REPORT OF THE 73 RD SESSION OF THE IALA COUNCIL

8 – 10 June 2021, Videoconference

CONTENTS

OPENING

Due to the meeting restrictions imposed by the COVID-19 Pandemic, the 73rd session of the IALA Council was held from 8 to 10 June 2021 by videoconference.

The meeting was opened at 12h00 CET on 8th June 2021 by Ms Young-shin KIM, IALA President.

1. PRESIDENT'S OPENING REMARKS

Ms Kim welcomed all Councillors, Observers and IALA Secretariat. After wishing well to all participants and their loved ones in these difficult circumstances, she thanked everyone for their tremendous efforts and commitment during these challenging times. Due to the conditions of the meeting being held remotely and to ensure a smooth running of the session, she asked the Secretary-General to lead the meeting through the Agenda, although she was remaining as the Chair.

2. APOLOGIES FOR ABSENCE

The Secretariat had received an apology from VAdm Takahiro YOSHINAGA from Japan Coast Guard, but Japan was represented by RADM Tsuguo AWAI. Also, Rear Admiral Piero Pilezari sent his apology and was replaced by Captain Marco Nobile. Rear Admiral Marcos de Almeida, Vice-President, also sent his apology.

The Secretary-General announced, that since the last Council meeting, the Council had lost a good colleague, the Director General of India's Directorate for Lighthouses and Lightships Mr. E. Murthy passed away on 28th April as a victim of the COVID 19 pandemic. The Council will certainly miss his friendship, dedication and always smiling face, and sends its condolences to his family, friends and colleagues in India.

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

3. APPROVAL OF THE AGENDA

The Agenda (input paper C73-3.1) was approved and is at Annex A. The Secretary-General reminded that the programme was to hold a meeting for two hours on 8 and 9 June from 10h00 UTC and on the 10th June at 10h00 UTC for report approval.

The Agenda was approved and appears at Annex A.

4. VACANT POSITION WITHIN COUNCIL

There was no vacant position within the Council.

5. REPORT OF THE 72nd SESSION

5.1 Matters arising from the session

Communication officer Audrey Guinault introduced input papers C73-5.1.

All action items from the previous meeting have been completed. An input paper on MASS has been submitted to PAP41, and there is an input paper on the Current Drivers and Trends submitted to this meeting as C73-8.1.1. Two Guidelines and one Recommendations have been sent back to the committees for further work, and the liaison notes have all been sent to the appropriate bodies.

6. REPORT BY THE SECRETARY-GENERAL

The Secretary-General referred to input paper C73-6 and gave the following orientation:

The important thing is, that notwithstanding the COVID-19 pandemic restrictions, IALA and its World-Wide Academy are on track with their respective work programmes and planned activities.

Each of the four Committees have met remotely once again, during March and April, in accordance with established procedures. These innovative working arrangements proved remarkably effective for the meetings in the latter part of last year and this year. In total, 575 attendees logged on during this spring session and they had approximately 250 meetings.

This success is a great tribute to the flexibility of the committee leadership and participants, who all made tremendous efforts and worked in the well-known spirit of IALA.

It is important for me to underline, that face-to-face meetings remain IALA's preferred mode of operation, and the Secretariat is planning for the committee and panel meetings to take place with a physical element at the IALA Headquarters. The meetings will be in a new hybrid version with a combination of virtual and physical meetings and for that purpose, the Headquarters has been updated with new Wi-Fi and equipment for a more hybrid and virtual post pandemic method of working.

However, everything – especially long-term planning - is of course uncertain for the moment, and the health situation will be followed carefully. In the present situation all meetings for the rest of 2021 will be virtual and the Council has already decided to postpone the General Assembly and the Conference in Rio one year to 2023. That also means that the president, vice-president, the FAC and the whole Council will serve another year until the General Assembly in 2023. The work programmes have been updated accordingly and you will hear more about that later.

The workshop on Marine Aids to Navigation in the Autonomous World, hosted by Japan Coast Guard, took place virtually very successfully in May and the workshop on Cyber Security, hosted by the Canadian Coast Guard, due to take place in Quebec, Canada, between the 1 and 5 November 2021 will also be hosted virtually.

The 14th VTS/ENAV Symposium was successfully hosted by the Netherlands in Rotterdam from 12 – 16 April, as the first virtual Symposium in the history of IALA. I had the privilege of being there physically, which was a great experience. The presentations were of very high quality and the conclusions will support the guidance of the committees work in the future.

The membership of IALA is growing, even after termination by Council of several members for non-payment, and the interest in the committee work is very satisfying. You will be asked later to approve new memberships and also unfortunately, to terminate certain memberships due to non payment, but overall the payment of contribution and the recovery of contributions in arrear have been very successful.

The Convention on the International Organization for Marine Aids to Navigation is open for signatures at the Ministry for Europe and Foreign Affairs in Paris until end of January 2022. So far nine States have signed, and one State has ratified the Convention.

With the latest reorganisation the IALA and WWA staff now consist of 12 full time employed members and four consultants (three in the WWA section and one for Communication). Ms. Virginia Marshall will retire in 2021, but we will have a chance to bid her farewell during the Council meeting in December.

The Secretariat has mainly been working from home since the outbreak of the COVID-19 pandemic. The HQ in Saint-Germain-en-Laye is regularly visited in order to ensure the smooth running of the Association and to make sure that all technical facilities are up to date during the major meetings. We plan to go back to work at the HQ on a more regular basis from 1st September.

The World-Wide Academy continues to develop successfully under the leadership of the Dean and supported the Academy Board, chaired by Professor Gug. The Academy has adapted to the Pandemic situation and is for the time being conducting all its activities online, pursuing its goals through its "Enlighten, Educate and Engage" strategy. While there has been significant activity in all three areas, the Academy has also used the opportunity to develop and consolidate its distance learning resources and methods. As a result, the Academy is now able to deliver most of its training activities as distance learning.

The Council noted the Secretary-General's report.

The councillor for Germany wished to express his gratitude to the Secretariat for the excellent work carried out despite the disrupted conditions due to the pandemic.

7. NATIONAL MATTERS

Due to the limitation in time for the meeting, Councillors had been invited to submit, in writing, matters of concerns or information that they wished to share with the Council. Such matters have been made available as input papers.

There were seven input received on National matters:

Australia updated on some major maintenance work at their heritage lighthouse at Rottnest Island and project to replace the above-water components of 13 steel piles, in Port Hedland and of course the challenges of doing these works during the pandemic.

Australia is closely considering and addressing the impacts of climate change on their AtoN network and has made four priority climate change concerns. These concerns should of course come to the attention of the relevant committees for further studies.

AMSA has discontinued its radio-beacon DGPS service from 1 July 2020, and Australia and New Zealand have initiated a SBAS project for the Australia and New Zealand region.

The project is now open for tender and is planned to be approved for aviation use by late 2023/24 and later probably for marine SBAS receivers.

Canada, like many maritime nations, is looking to modernise its marine navigation services. As part of this ongoing process, the Canadian Coast Guard wishes to inform its IALA partners that it will shut down its Differential Global Positioning System (DGPS) service by the end of 2022.

The Chilean navy reported on the Fenix project that will replace 80% of devices in its network consisting of more than 1.250 aids, which will have completed their operational life by 2022. A very ambitious project that has of course faced some challenges during the ongoing COVID-19 pandemic.

Chile also reported on a very close corporation with the WWA on VTS training and an important project of organising activities for the Spanish speaking countries.

Lastly Chile informed of their Candidature to the IMO Council, category C.

China MSA informed that the draft revision to China's Maritime Traffic Safety Law was adopted on 29 April 2021.

On 31st December 2020, CHINA MSA has issued the Intelligent navigation Services Plan (2021-2025). The plan aims to achieve a substantial improvement of navigation service capability by the end of 2025.

In order to ensure the navigation safety of the Hongkong-Zhuhai-Macao Bridge, the longest sea-crossing bridge in the world, the Hongkong-Zhuhai-Macao Bridge Marine AtoN Department was founded on 30 December 2020.

On 15 April, Haixun 156, China's first large ice-breaking lighthouse tender, was launched at the Shuangliu Shipyard in Wuhan and it is expected to be commissioned in September.

The Dafeng RBN-DGNSS Station, which started construction in 2019, was officially put into operation in February 2021. The new station will completely solve the problems of weak and inaccuracy of differential signals in the coastal areas of central Jiangsu Province.

India informed the Council that the Aids to Navigation Act 2020 has been approved by the lower House and will now be submitted to the upper house.

The Indian Regional Navigation Satellite System has been recognised by the IMO and India also inform us about several online courses conducted and planned for the rest of 2021.

Japan's input were beautiful pictures of four Lighthouses that will soon be designated as national important tangible cultural properties. They also reported that they were in the process of introducing a new legal system for maritime traffic safety. This will allow Japan Coast Guard to enhanced maritime traffic safety under severe weather

conditions. Japan also reported that they were making good progress at parliament level for the signature of the convention.

Lastly the Republic of Korea gave a status on eLoran and PNT development where eLoran has operated in pilot service for countering GPS jamming from 1st June this year, and an additional terrestrial transmitter station will be built by 2022.

Korea also informed about a large investment $ 28 million in the introduction of SMART AtoN R&D Project.

The reports were noted.

8.   STRATEGY AND POLICY

8.1 Current Drivers and Trends

Input papers C73-8.1.1 and C72-8.1.2 refer.

Deputy Secretary-General Omar Frits Eriksson explained that at our 69th session, the Strategy Drafting Group prepared a so-called Strategy White Paper, describing current drivers and trends, and how these were expected to impact IALA. Council 70 decided to rename the White Paper to "Current Drivers and Trends" and decided that the paper should be enhanced with respect to environmental issues and sustainability.

An updated document was then approved at Council 71, but the discussion at C71 revealed that the document could be further improved with respect to the impact of climate change as well as rapid developments in satellite and terrestrial communication infrastructure.

At Council 72, Canada, China and Australia provided further inputs which were amalgamated into the current version 2.0 of the document and which is input paper C73-8.1.1, and at this meeting Korea provided further input in the shape of input paper C73-8.1.2.

Following a discussion on the desired content and tone of the Current Drivers and Trends document, there was no consensus to adapt the wording proposed in C73-8.1.2.

The council agreed to gather the Council Strategy Group before C74 to finalise C73-8.1.1.

Action Item 1:

The Secretariat to gather the Council Strategy Group prior to C74 with a view of finalising the Current Drivers and Trends document C73-8.1.1, taking into account C73-8.1.2 submitted by Korea.

8.2 Policy Advisory Panel

8.2.1 Report of PAP41

Input paper C73-8.2.1 refers

Deputy Secretary-General and Chair of the Policy Advisory Panel, Omar Frits Eriksson provided a summary of the 41th meeting of the Policy Advisory Panel which was held virtually over three online sessions.

The Panel had noted with pleasure that the french minister for Maritime Affairs had signed the new IALA convention the week before and are looking forward to work in a new setting as an IGO.

As discussed at Council 72, and in line with the input received from the Netherlands and Singapore, and very well aligned with section 2 of the Current Drivers and Trends, PAP agreed to establish a special inter-committee working group or task force on MASS.

The group was given a terms of reference and has initially been asked to deliver:

- A report on possible MASS scenarios and their impact on Marine Aids to Navigation;
- a scoping exercise and a report on the impact of MASS on IALA publications; and
- a report on possible MASS related work items for the IALA committees;

The group will provide regular progress reports to the Policy Advisory Panel, where possible impact on the future work programm of the committees will be discussed. The Netherlands, Mr. Maarten Berrevoets, have agreed to chair the group with Capt. Segar from Singapore as the vice chair..

Mr. Eriksson then explained that the policy Advisory Panel also discussed a number of cross committee related topics such as

- The future of DGNSS
- Development of S-200 Product Specifications
- The use of MRN, Maritime Resource Name
- and the arrangements for the upcoming virtual committee sessions.

The secretariat had tabled the newly developed IALA Style Guide which is aimed at streamlining and harmonising the look and feel and writing style of IALA publications. The new Style Guide was well received and a number of new templates have been made availabe to the committees.

There was also a short extra ordinary PAP meeting on the 5th of May, where lessons learnt from the virtual committee sessions where discussed, as well as the practial arrangements for the committee season in the second half of the year.

Mr. Eriksson stated, that although PAP41 was a purely virtual meeting, it was a very fruitful meeting and that he finds that the Policy Advisory Panel is working very well well, and serves well its two main purposes in coordinating the work of the committees and providing policy advice to the Council and IALA as a whole.

He then thanked all PAP members for their hard work and dedication, as well as the Councillors for supporting them in contributing to this important work within IALA.

The councillor for Singapore wished to congratulate IALA and Japan Coast Guard on the organisation of the workshop on MASS. Singapore is committed to ensure further developments on MASS. They already conducted two successful trials this year in collaboration with various stakeholders. They urged member states to join the activities of the task force and support IALA's work on MASS.

The Council noted the report of PAP41.

8.3 Change of status

Input paper C73-8.3.1 and C73-8.3.2 refer

8.3.1 Signature of the Convention

The signing ceremony of the Convention on the International Organization for Marine Aids to Navigation was held on 27 January 2021 in Paris and as depositary State of the Convention, France, represented by Mrs. Annick Girardin, Minister for Marine Affairs, was the first State to sign the Convention.

The Convention is now open for signatures here in Paris and it is very easy and unbureaucratic to make an appointment with the Ministry in order to sign. The Convention has been signed by France, The Netherlands, Singapore, Malaysia, Norway, Republic of Korea, Denmark, Spain and Finland (in the order of signature dates). Singapore has also ratified the Convention. Because of the pandemic it has been difficult to keep momentum in the process and I really hope that the Note Verbale issued to all embassies by the Ministry for Europe and Foreign Affairs and the discussion in the IMO at MSC 104 (the paper was postponed at 103) can create some new interest in signing the Convention.

It is the hope, that the council members are working with the appropriate authorities in your country, in order to get the signature from your country.

IALA has started the detailed preparation for the Transitional phase between the start of the new organisation and the termination of the present association. This process is discussed in paper C73-8.3.2.

The Councilors from France and Singapore also encouraged the Council to work for the signature of their respective Countries as a signal to the rest of the World.

8.3.2 Timeline for the transition period.

The Convention will enter into force on the ninetieth day after the date of deposit of the thirtieth instrument of ratification. As you know, the Convention includes robust arrangements for a smooth transition – the Transition Arrangements which is an annex to the Convention.

For this purpose and after advice from the LAP, the Secretariat has appointed a French law firm, Carlara Avocats, to provide legal assistance from now and throughout the transition period and until the winding up of the Association is complete. In particular, Carlara Avocats will provide assistance with respect to the administrative formalities required by French law for the transfer of the rights, interests, assets and liabilities in favour of the new IGO.

A roadmap is presented in Annex C73-8.3.2.1 and proposes a calendar of tasks to be carried out until the creation of the IGO and the dissolution of the Association. The old IALA will cease to exist automatically iaw art 18 of the Constitution. The different tasks are mapped out to provide a good visibility during the next three years or so. This period can of course be adjusted according to the time it takes until the Convention enters into force.

Whilst awaiting ratification to be completed by the signatory States, the Secretariat will start preparations for the administrative transition. The year 2021 will be mainly be devoted to the following tasks:

•   Final negotiation of the draft Headquarters Agreement with the French Government. We have a very positive draft that is nearly ready.

•   Comparative study of the different systems of other similar organisations concerning health insurance, social benefits, and staff pension schemes. Basically, this is a choice between keeping the French official system, using a private system or a combination.

•   Full inventory of existing contracts in anticipation of the future transfer of rights, assets, and liabilities. This is basically just hard work.

China asked if the HQ agreement will be available for the Council and when and how the General Regulation wil be nigociated.

The Secretary-General answered, that the HQ agreement will be an input paper to the Council as soon as a mature draft is ready. He also explained that the draft General Regulations were a draft to the Kuala Lumpur Conference and that they will be developed in an international group, well in advance of the General Assembly of the new IGO.

The years 2022 and 2023 shall be dedicated to the analysis and finalisation of these three priority tasks.

The councillor for the US asked if there would be a new work programme established at the first General Assembly.
The Secretary-General replied that there will be a new work programme for the new IGO. This will be prepared in due time and based on what we currently have.

The Council noted the information provided.

9. FINANCE AND AUDIT COMMITTEE REPORT

The Chair of the FAC, Captain Ian McNaught, introduced the input papers related to financial matters.

9.1 2020 Audited financial statements

Input paper C73-9.1 and Annex C73-9.1.1 refer.

The pandemic and the resulting internal reorganisation did not affect the continuity of the activity of the Association. IALA closed its financial year with a net consolidated surplus of €254,363.

The auditor recommends allocating part of the result each year, to a dedicated Reserve in order to anticipate the expected expenses in 2023 related to the IALA Conference. This "Reserve for associative project" will replace the provision previously created in the accounts. It is proposed to allocate €150,000 to this Reserve in 2021, from the 2020 budget surplus.

Concerning the World-Wide Academy, unused sponsorships in 2020 due to the pandemic, for a total amount of K€621, will constitute reserves to be carried forward to 2021 for future use.

The Council noted the 2020 audited financial statements and approved the allocation of profit of €150,000 to the Reserve for associative project.

9.2 Budget monitoring statement as of 30 April 2021

Input paper C73-9.2 and Annex C73-9.2.1 refer.

● Income

Total operating income as of 30 April 2021 is 2 million euros out of 2,4 million euros budgeted which is 22% more compared with same period last year. This is mainly due to a very good recovery of contributions, with a higher-than-expected level for contributions in arrears (K€230 was received in four months). In total, 1.9 million euros were received as contributions.

● Expenditure

The Covid-19 pandemic had an impact on the accounts with a 18% decrease in operating expenses compared to 2020 (mainly less travel and missions). Total operating expenses to 30 April 2021 accounts for K€656 which represents 30% of the total budget used.

The Council noted the budget as of 30 April 2021.

9.3 Revised budget for 2021

Input paper C73-9.3 and Annex C73-9.3.1 refer.

● Revenue

The budget for overdue contributions is increased to account for larger than expected payments received in the first quarter of 2021, while the workshops budget is revised downward due to the postponement of IALA events this year.

In total, the variation in income is +12% and the revised revenue budget amounts €2,767,722.

● Expenditure

The operating expenses budget is re-evaluated at €2,419,020 (+12%). Personnel costs are increased by 11% due to the hiring of a new communication consultant in April 2021 and the retirement of a senior staff member in December 2021 (originally planned in June 2021). In addition, the budget for legal assistance for the new Carlara firm (IGO project) is increased as well as the capital budget to build IT capacity for future hybrid meetings and improved communication tools.

The Council approved the revised budget for 2021.

9.4 Membership situation status

Input paper C73-9.4 and Annex C73-9.4.1 refer.

A 3% increase in the membership rate is proposed for the year 2022 for the National members category only.

In order to meet some of the demand of three IALA members in difficulty this year due to the pandemic, exceptional measures were taken and a waiver of certain unpaid contributions was granted.

The Council noted the membership situation status and approved the membership contributions rates for 2022 as follows:

- **National members: €17,670**
- **Industrial members: €6,350**
- **Associate members: €3,070**

10. TECHNICAL ACTIVITIES

All input papers under this Agenda item were introduced by the Technical Operations Manager, Minsu Jeon.

10.1 Committee work organisation

10.1.1 First half 2021 committee work summary

Input paper C73-10.1.1 refers.

All the committee meetings in the 1st half of 2021 were held virtually again. From the last committee meetings, the secretariat received feedback on the provided virtual arrangements, and subsequently upgraded the website and virtual meeting arrangements.

The committee dashboard area, where all the information relating to the committee sessions was made available, was then revised. A better calendar application for the meetings was provided. Over the 9 weeks period from March to April, the four committee sessions were held back to back, and sometimes simultaneously, and about 250 meetings in total, were held in plenaries and small working groups.

It is planned that the committee meetings in the second half of this year will be also held virtually with the same arrangements.

The Council noted the summary of the 1st half of 2021 committee work.

10.1.2 Revised committee work programme 2018-2023

Input paper C73-10.1.2. and C73-10.1.2.1 refers.

Based on the decision of the council, the schedule for the committees was updated and the work programme expanded to 2023. The changes are summarized in document 10.1.2.1.

Some work items are in yellow and red status, but the committees expected to keep their momentum in the extended working period and through inter-sessional correspondence groups.

The Council approved the revised Committee work programme for 2018-2023.

10.1.3 Committee meetings and events date in 2021 and 2022

Input paper C73-10.1.3 refers.

The first virtual IALA workshop on MASS was successfully conducted in May 2021. The planned cybersecurity workshop will be held in November with the same virtual arrangement. The dates for the second half of this year of the committees will be published in due course.

For 2022, the joint IALA-IHO S-100/200 workshop is planned to be held in Norway, and a workshop on AtoN engineering is planned to be held in Australia.

The heritage seminar is now expected to be held in conjunction with the IALA conference in Brazil in 2023.

The result of the workshop questionnaire indicated a generally high level of participant satisfaction.

The councillor for Chile mentioned that a WWA seminar on MASS, similar to the MASS workshop held in May, was planned for 29-30 June 2021 in the Spanish language. He thanked the WWA for their support in this project.

The Council noted the committee meetings and events dates in 2021 and 2022.

10.2 ARM

10.2.1 ARM13 summary report

Input paper C73-10.2.1 refers.

The 13th Session of the ARM Committee was held virtually from 13 to 28 April 2021.

The committee continued the work for this work period with three working groups. The committee considered 82 input papers and produced 36 output and working documents. ARM prepared one liaison note to ITU-R M.1371-5, which was approved by the silent approval procedure in April, and one recommendation and three guidelines, and the traffic lights for the status of the committee work.

The Council noted the summary report of ARM13.

10.2.2 Revised Recommendation R0143 Provision of Virtual Aids to Navigation

Input paper C73-10.2.2 refers.

Since the 1st edition of the publication in 2010, there were a number of upgrades and changes on the virtual AIS AtoN. This recommendation has been updated in format, and old references have also been updated.

The Council approved the revised Recommendation R0143 Provision of Virtual Aids to Navigation Ed2.0.

10.2.3 Revised Guideline G1081 Provision of Virtual Aids to Navigation

Input paper C73-10.2.3 refers.

This draft guideline includes a lot of case studies and examples since its first publication in 2012. The latter part of the document, includes applications and some lessons learnt from countries, so it is now a comprehensive document on the use of virtual aids to navigation.

The Council approved the revised Guideline G1081 Provision of Virtual Aids to Navigation Ed2.0.

10.2.4 Revised Guideline G1143 Unique Identifiers for Maritime Resources

Input paper C73-10.2.4 refers.

Edition 2 of this document was approved by the council at C72, and ARM continued to work on the definition part of the document and includes now an annex on country codes within the IALA MRN namespace.

The Council approved the revised Guideline G1143 Unique Identifiers for Maritime Resources.

10.2.5 New Guideline on Ship Reporting from a shore-based perspective Ed1.0

Input paper C73-10.2.5 and C73-10.2.5.1 refer.

The Secretariat recalled that the document was submitted to the last session and sent back to ARM for further discussion with VTS.

The purpose of this Guideline is to assist shore-based stakeholders with automating processes and procedures associated with VTS Reporting and ship reporting in general while complying with national and regional reporting requirements and with IMO FAL Resolutions Convention on ship reporting.

The chair of ARM prepared a note on this document, which can be found in input paper C73-10.2.5.1.

This summarises the work of ARM and VTS since the last session. The ship reporting task group addressed 166 comments from both committees.

The Council approved the new Guideline on Ship Reporting from a shore-based perspective Ed1.0.

10.3 ENG

10.3.1 ENG13 summary report

Input paper C73-10.3.1 refers.

The 13th Session of the ENG Committee was held virtually from 22 March to 19 April 2021. The committee progressed its work, considered 73 input papers, and produced 21 output documents.

ENG prepared three liaison notes, two draft recommendations and one guideline, one workshop proposal and the proposal on the IALA heritage lighthouse of the year 2021 for the council meeting.

The Council noted the summary report of ENG13.

10.3.2 New Recommendation on Provision of GNSS Augmentation Service for maritime applications

Input paper C73-10.3.2 refers.

The secretariat recalled that this document was submitted to the last council meeting and sent back to ENG for further consideration. The ENG committee has updated the SBAS part and submit this document for approval again.

The Recommendation invites the service providers to record details of their maritime services and to make them available in a common place and in a common format. This paper aims to catalogue this information through a simple Pro-forma template with completed details.

The Council approved the new Recommendation on Provision of GNSS Augmentation Service for maritime applications Ed1.0.

10.3.3 Revised Recommendation R0110 Rhythmic characters on Aids to Navigation

Input paper C73-10.3.3 refers.

The Recommendation on Rhythmic characters on Aids to Navigation has been updated to include a new class of flashing and flickering character for use in mobile AtoN.

This new yellow light character will be used for Mobile Aids to Navigation only.

The Council approved the revised Recommendation R0110 Rhythmic characters on Aids to Navigation Ed5.0.

10.3.4 Revised Guideline G1134 surface colours used as visual signals on AtoN

Input paper C73-10.3.4 refers.

This Guideline has been enriched with details on colour measurement devices, new techniques, and the experience of members. The difference between laboratory measurement and on-site measurement has been elaborated, and many valuable photos and best practices are now included.

The Council approved the revised Guideline G1134 surface colours used as visual signals on AtoN Ed2.0.

10.3.5 Workshop proposal on ERPS

Input paper C73-10.3.5 and C73-10.3.5.1 refer.

ENG prepared a proposal on an IALA workshop on Enhanced Radar Positioning System (ERPS), which is a resilient PNT system. The purpose of this workshop is to identify the standards for this technology.

It is expected to attract about 20 participants, it will be a virtual event over three full days. The date could be confirmed by the Steering Group.

The Council approved the workshop proposal on ERPS.

10.3.6 Proposed IALA Heritage Lighthouse of the year 2021

Input paper C73-10.3.6 refers.

Since this concept was established with the proposal of the Heritage Working Group in 2019, Council 70 approved the selection procedure and tasked ENG with summarizing and proposing three short-listed nominations every year.

For this year, the high calibre of 29 nominations from 18 members were received. The committee short-listed the Lizard lighthouse in England, the Palmido lighthouse in Korea, and the Cape Byron lighthouse in Australia. Following a thorough discussion, the committee recommended Cape Byron lighthouse as the heritage lighthouse of the year 2021.

The Council decided on Cape Byron lighthouse, Australia as IALA Heritage Lighthouse of the year 2021.

The councillor for Australia expressed his gratitude for the selection of this lighthouse and indicated that it had recently been refurbished and is subject to a heritage management plan.

The councillor for Korea mentioned that, as per the Incheon Declaration from the 2018 Conference, MOF will make and send a plaque to Australia for the lighthouse of the year, since they committed to do so for every lighthouse of the year until 2022.

10.4 VTS

10.4.1 VTS50 summary report

Input papers C73-10.4.1 refers.

The 50th Session of the VTS Committee was held from 10 – 31 March 2021. The committee progressed quite a lot of work during the meeting and finalised five guidelines for approval.

Since the approval of the VTS manual last December, the publication has been updated with minor and editorial changes. The final version is in the hands of a designer, and it will be published on the IALA website soon.

The Council noted the information on VTS manual and VTS50 summary report.

Action item 2

The secretariat to update the VTS Manual and publish the updated version on the IALA website.

10.4.2 New Guideline on competencies – planning and implementing VTS

Input papers C73-10.4.2 refers.

The development and implementation of VTS are rapidly being embraced by an increasing number of countries. It has become evident that there is a need to provide guidance to the members to assist in preparation for implementing VTS effectively and in a manner consistent with their international obligations under SOLAS.

This Guideline provides guidance on training needs for those involved in the planning and implementation of a VTS.

The councilor from CHINA MSA think the text of *New Guideline on competencies – planning and implementing VTS* is now mature enough to be approved by council. But considering that IMO resolution A.857 (20) will soon be issued at the IMO General Assembly, there may be inconsistencies between the final text of the resolution and the guideline. The Council is therefore requested to consider whether to wait for the issuance of resolution A.857(20) and final revision of the guideline for consistencies before approving its adoption.

The Council approved the new Guideline on competencies – planning and implementing VTS Ed1.0.

10.4.3 Revised Guideline G1141 operational procedures for delivering VTS

Input papers C73-10.4.3 refers.

The draft guideline is in line with Recommendation R0127 (V-127) on Operational Procedures for VTS. The Guideline has been revised to provide appropriate guidance for Competent Authorities and VTS Authorities to minimise any possible confusion to masters transiting between VTSs.

The councilor from CHINA MSA think the text of *Guideline G1141 operational procedures for delivering VTS* is now mature enough to be approved by council. But considering that IMO resolution A.857 (20) will soon be issued at the IMO General Assembly, there may be inconsistencies between the final text of the resolution and the guideline. The Council is therefore requested to consider whether to wait for the issuance of resolution A.857(20) and final revision of the guideline for consistencies before approving its adoption.

The council approved the revised Guideline G1141 operational procedures for delivering VTS Ed2.0.

10.4.4 Revised Guideline G1110 use of decision support tools for VTS personnel

Input paper C73-10.4.4 refers.

The revised guideline on decision support tool for VTS personnel has been updated to take into account emerging concepts and technologies.

The councillor for the Netherlands expressed her concern that this document needs further discussion.

The council decided to send the revised Guideline G1110 use of decision support tools for VTS personnel back to the VTS committee for further discussion.

Action item 3

The Secretariat to send the revised G1110 use of decision support tools for VTS personnel to the VTS committee for further discussion.

10.4.5 Revised Guideline G1132 on VTS Voice Communications and Phraseology

Input paper C73-10.4.5 refers.

This Guideline has been entirely updated from edition 1.0. The workshop on harmonising VTS voice communication in Korea in 2019 contributed to this Guideline. The document aims at standardising VTS phraseology to provide reliable, fast and effective communication, to overcome differences in language and reduce the probability of misunderstanding.

The document includes phrases to be used in key operational and emergency VTS scenarios and provides guidance on standard VTS communication phrases.

The council approved the revised Guideline G1132 on VTS Voice Communications and Phraseology Ed2.0.

10.4.6 Revised Guideline G1017 on assessment of prior learning exemption for VTS model courses

Input paper C73-10.4.6 refers.

The tilte of this document was revised, and its contents revised, to ensure harmonisation with other training-related IALA guidance documents. This document describes how to assess prior learning, qualifications and previous experience of students or existing VTS personnel, that should be taken into account when assessing training requirements.

The council approved the revised Guideline G1017 on assessment of prior learning exemption for VTS model courses Ed2.0.

10.5 ENAV

10.5.1 ENAV27 summary report

Input papers C73-10.5.1 refers.

The 27th Session of the ENAV Committee was held virtually from 1 to 26 March 2021. The committee considered 34 input papers and produced 16 output and working documents. ENAV prepared one liaison to ITU and one guideline.

Hideki Noguchi, ENAV Chair, informed that although ENAV27 prepared one more liaison note to the IMO/ITU Expert Group expected to be held in July 2021, due to the postponement of the Expert Group by Covid-19, the liaison note would be updated and sent to the Council for approval by correspondence when the invitation of the Expert Group is issued.

The Council noted the ENAV27 summary report.

11.5.2 New Guideline on the Evaluation of Platforms for the Provision of Maritime Services in the context of e-Navigation

Input paper C73-10.5.2 refers.

The Guideline provides information on the evaluation of harmonised and suitable platforms for the provision of Marine Aids to Navigation (AtoN) services, including VTS. This document concentrates on the required criteria for these next-generation platforms, which support the provision of Maritime Services and presents an overview of relevant requirements.

The Guideline includes criteria regarding platforms and platforms in the context of e-navigation and the potential benefits of standardisation.

The Council approved the new Guideline on the evaluation of platforms for the provision of maritime services in the context of e-Navigation Ed1.0.

10.6 S-200 development

Input paper C73-10.6.1 refers.

During the first half of 2021 committee sessions, work progressed on various product specifications related issues. ARM discussed S-201, and decided to improve the 201 implementations, extending the data model. Four of the product specifications are now ready for being tested as version 1.

A regular technical coordination meeting with IHO was held in April this year, and the report is attached to document C73-10.6.1.

Also, the secretariat participated in IHO HSSC, presented updates from IALA, and agreed to continue to contribute to the development of the GI registry. At this meeting, IALA was granted its own, new domain in the portrayal register.

The Council noted the information provided on the committee work on S-200.

10.7 Digital@Sea

Input paper C73-10.7.1 refers.

The first digital at sea webinar was conducted in April 2021 in conjunction with the IALA symposium. It was a successful event with 126 participants.

The programme included the following speakers:

- The Secretary-General on the D@S introduction and background;
- Andreas Nordseth, DG of DMA on the initiative and possible role of IALA;
- Sunbae Hong, director of Korea MOF on D@S clusters and capacity building;
- Ed Wendlandt, President of RTCM on the e-navigation underway North America and plan for this year.

The Council noted the information provided about Digital@Sea.

11. WORLD-WIDE ACADEMY

11.1 Progress report and future actions

Input paper C73-11.1.1 and C73-13.11.1.2 refer.

In his capacity as the Dean of the World-Wide Academy, Omar Frits Eriksson reported that the World-Wide Academy continued its successful work on education, training and capacity building, governed by the Academy Board which is chaired by professor Sunny Gug from South Korea. The Academy Board had not met since the last Council meeting, but the approved version of the report of the last board meeting, from November 2020, was provided as C73-11.1.2.

Input paper C73-11.1.1 was provided as the Academy progress report and the Dean said that progress had been severely affected by the pandemic. He then went on to describe the three fundamental principles upon which the academy bases its work, enlightening people, providing education and training opportunities to as many as possible and capacity building through long-term engagement with those in need of assistance.

The Academy has continued to develop its on-line value proposition and to improve its ability to produce results, despite the pandemic. It is now successfully delivering all its courses as distance learning. The new course on procurement in the international marketplace is just about to be completed. It complements well the IMC initiative on a Code of Conduct for Industrial Members, which aims at combatting corruption and promoting honest and ethical business practices in the industry.

The Dean then explained that there is some demand for courses and events in both Spanish and Arabic and he thanked the Councillor from Chile for taking the initiative to ask the Academy to reproduce the MASS workshop in the Spanish language, in the form of a Seminar. The Academy plans to expand on this type of events, which basically is about recycling work that has gone into developing an IALA event on a given topic, for the benefit of other language communities.

The Dean said that the Academy has kept busy so far in 2021 despite the pandemic and the financial reserve from 2020 will make the Academy more robust against possible fluctuation in sponsorships and allow it to be firmer in making commitments into the future.

In conclusion, the Dean thanked the sponsors for their support and requested that the councillors to continue supporting the Academy in its search for further funding.

The councillor for Singapore wished to thank the WWA for their work and renewed its support to the Academy activities. Singapore could not host any event due to the covid 19 pandemic but they are in discussion to orgnanize events as soon as the situation allows. They are fully committed to help capacity building activities for the countries in need.

The Council noted the information provided.

11.2 Academy Risk Register

Input paper C73-11.2.1 refers.

The Dean presented the Academy Risk Register and said that while most risk factors are unchanged or reducing, the probability of loss of major sponsorship remains the highest risk factor. However, currently there are no alarming signs in this regard. The Pandemic has made it difficult for the Academy to produce its traditional results, which may also affect willingness to sponsor.

The Dean finished by saying that the reduced travel activity has reduced significantly the risk to personal safety of staff during missions and that the positive development in the IALA IGO project, helps to ensure that the risk of IALA failing as an international organisation, continues to stay at a low level.

The Council noted the information provided on the Academy Risk Register.

12. INTERNATIONAL

12.1 ITU

12.1.1 IALA response to WP5B on Revision of Recommendation ITU-R M.1371-5

Input paper C73-12.1.1 refers.

The liaison note was approved by the council in April 2021. The secretariat received a liaison reply back just before the council meeting, and it will be shared with the committees.

ITU requested IALA to share information on the liaison note with other organisations, CIRM and IMO.

In this regard, PAP will prepare a document for IMO/ITU EG meeting which will be held in November.

The Council noted the IALA response to WP5B on revision of Recommendation ITU-R M.1371-5.

Action item 4

The secretariat to ask PAP to prepare a liaison note to be submitted to IMO/ITU EG meeting scheduled in November.

12.2 CIRM

12.2.1 Liaison note to CIRM on Enhanced Radar Positioning System

Input paper C73-12.2.1 refers.

The liaison note is to CIRM on the enhanced radar positioning system and it requests CIRM to consider the responses from IALA.

The council approved the Liaison note to CIRM on Enhanced Radar Positioning System.

Action item 5

The secretariat to send the liaison note on Enhanced Radar Positioning System to CIRM.

12.3 ETSI

12.3.1 Liaison note to ETSI on Radar Standards

Input paper C73-12.3.1 refers.

The paper requests ETSI to continue forwarding relevant information on Radar Standards to IALA.

The council approved the liaison note to ETSI on Radar Standards.

Action item 6

The secretariat to send the liaison note on Radar Standards to ETSI.

12.4 RTCM

12.4.1 Liaison note to RTCM on response to SC104

Input paper C73-12.4.1 refers.

The liaison contains information that IALA will conduct a survey amongst the national members on provision of services, and the task will be included in the work programme of ENG.

The councilor for China welcomed this liaison to be sent to RTCM. But the existing RTCM 1040 2.3 standard can't satisfy the need of DBDS stations message broadcasting . He sincerely hope that RTCM could revise the standard to 2.4 version to support other GNSS recognized by IMO and their DGNSS message broadcasting.

The council approved the liaison note to RTCM in response to SC104.

Action item 7

The secretariat to send the liaison note on response to SC104 to RTCM.

12.5 IMO

12.5.1 IGO paper to MSC103

Input paper C73-12.5.1 refers.

MSC 103 has deferred the discussion on the paper to MSC 104.

The Council noted the information IGO paper to MSC103.

12.5.2 IMSAS to MSC103

Input paper C73-12.5.2 refers.

MSC 103 has deferred the discussion on the paper to MSC 104, but the contribution from IALA will be used for the audits from this year.

The Council noted the information on IMSAS to MSC103.

12.5.3 3GPP to IMO/ITU EG (Withdrawal)

The document on this was withdrawn as the IMO/ITU EG meeting has been postponed from June to November 2021. ENAV will prepare a liaison note for the next IMO/ITU EG meeting and send it to council for approval before the deadline.

The Council noted the information provided by the secretariat and the chair of ENAV.

12.5.4 Report on IMO

Input paper C73-12.5.4 refers.

The secretariat updated the council on the result of MSC 103 and NCSR 8.

MSC 103

The one hundred and third session of the IMO MSC was held as a virtual meeting from 5 to 14 May 2021, and IALA submitted two paper to MSC 103, but they will be discussed at the next session.

- MSC 103/20/5 Opening for signature of the convention on the International Organisation for Marine Aids to Navigation
- MSC 103/20/9 IMO Member State Audit Scheme

The MSC agreed on the outcome of the Regulatory Scoping Exercise (RSE) and set the priorities for further work on MASS. Please refer to the document MSC 103/WP.8 for details.

The MSC considered documents MSC 102/21/4 and MSC 103/18 (Japan et al.) proposing amendments to SOLAS chapter V to introduce the VHF Data Exchange System (VDES), develop related performance standards and guidelines and revise/amend relevant IMO instruments and agreed to include the proposal to the post-biennial agenda by assigning the NCSR Sub-Committee as the associated organ.

NCSR 8

The eighth session of the IMO Navigation, Communications and Search and Rescue (NCSR) was held remotely from 19 to 23 April 2021, and IALA relevant topics were;

- Revision of Recommendation ITU-R M.1371-5
- Recognition of QZSS as a component of the WWRNS
- Use of public broadband communications and technical standardization for public mobile networks in the context of maritime safety
- Progress on standard development by IEC
- Report on the monitoring of ECDIS issues

The Council noted the report on IMO.

13 IMC

The IMC representative, Mr John Sugarman, informed the Council that the committee is progressing with the IMC evening and sorting the exhibition once Brazil have contracted their conference organiser.

IMC agree that the Industrial members mentioned in paper C73-15.2 can be struck off as members as suggested.

14 IALA CONFERENCES AND SYMPOSIA

14.1 2020(2021) - 14th Symposium – The Netherlands

Input paper C73-14.1.1 refers.

The Secretary-General stated that the 14th IALA Symposium held virtually from to 12 to 16 April 2021 and hosted by the Netherlands was a success. The hightlights were presented to the councillors.

The councillor for the Netherlands expressed her gratitude to the secretariat for the help provided in organizing this event. She mentioned the challenge that the Netherlands had to face with the repeated postponement of the event due to the Covid 19 pandemic and the costs inevitably related to it. The challenge of this virtual symposium was to make it as lively as possible. This has been successful, mainly thanks to the live studio set up and the Network app. The app would be live until the end of June. From the 1st of July, the content will be made available on the dedicated website. The Netherlands will send to the Secretariat some text for the Symposium report on the keynote speech.

The Council noted the symposium report.

14.2 2023 – 20th Conference – Brazil

Capt. Alberto Piovesana Jr. gave an update on the preparation of the conference with possible dates being 27 May to 3 June 2023. A presentation video of the location where the conference would be held was played to the councillors.

The Council noted the information provided.

14.3 2025 – 15th Symposium - Singapore

There was nothing to report under this Agenda item.

14.4 2027 – 21st Conference - India

There was nothing to report under this Agenda item.

14.5 World Marine Aids to Navigation Day

Input paper C73-14.5 and C73-14.5.1 refers.

At the 72nd session of the Council noted the postponement of the official celebrations in Bulgaria and Japan due to the ongoing COVID-19 pandemic.

The situation with respect to the evolution of the COVID-19 pandemic challenges continues world-wide. The Director-General of Bulgarian Ports Infrastructure Company (BPIC) has expressed his readiness to host the celebration of the event physically in Burgas as initially agreed and approved at the C70. The Director-General of BPIC proposes therefore a new date next year on/around 1 July 2022 in the newly build Congress Center in Burgas.

The 1 July 2021 will be celebrated virtually and the Secretariat will issue a Circular letter with a programme.

The councillor for Japan indicated that they would hold a virtual exhibition on the WATON Day this year, but they would also like to organize a physical event in 2022, possibly at a later date than Bulgaria. They will submit a proposal to Council 74.

Korea indicated that they planned to have a celebration for the WATON Day on the 1st of July.

The council noted the information provided.

15 MEMBERSHIP

Finance and Administration Manager, Christine PHILIP introduced the input papers related to membership. Updated papers were provided during the meeting.

15.1 Applications for membership

Input paper C73-15.1 refers.

The Council approved National membership for:

- **Turks and Caicos Government Island,** *United Kingdom overseas Territories*

The Council approved Industrial membership for:

- **Indianic Group Pty, Ltd,** *Australia*
- **ATCO (Ports Management & Services),** *Saudi Arabia*
- **Safe Sea Service FZCO,** *United Arab Emirates*
- **Spire Global Luxembourg SARL,** *Luxembourg*
- **Shanghai Space Earth Information Technology Co., Ltd,** *People's Rep of China*
- **IHS Markit, Maritime & Trade,** *The United States of America (late submission)*

The following Industrial membership did not receive endorsement from China MSA:

- **Alltek Marine Electronic Corp,** *Taiwan_ People's Republic of China.* The Councilor from China suggests postponing the application of this member until complete documentation is received by the National member.
- **Shenzhen Anhang Technology,** *People's Republic of China*. This member did not receive the support from China MSA after a complete reviewing process.

15.2 Resignations from and changes in membership

Input paper C73-15.2 refers.

The Council noted the resignations from Industrial membership of:

- **Airbus Defence and Space SAS,** *France*
- **Tideland Signal Ltd,** *United Kingdom*

The Council noted the resignations from Associate membership of:

- **DP World -Jebel Ali Port**, *The United Arab Emirates*

The Council noted the changes in membership:

- **Kasi Malaysia Sdn Bhd,** *Malaysia:* change of category from Industrial to Associate (this request received the support from the Councilor of Malaysia).
- Transfer from **Tideland Signal Corporation,** *The United States of America* to **Tideland Signal Manufacturing LLC.**

15.3 Terminations or suspensions of membership

Input paper C73-15.3 refers.

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

Terminate industrial membership for:

- **Pishgam Sanat Tahmin engineering Co.- TAHMIN** – *Iran*
- **Caveman Construction** - *Papua New Guinea*
- **Nawae Construction Ltd.** - *Papua New Guinea*
- **La Maquinista Valenciana, SA** – *Spain*

Keep the rights suspended for the following National members:

- **Office National de Signalisation Maritime,** *Algeria*
- **Direction Générale de la Marine Marchande,** *Rep of Congo*

Reinstate National membership for:

- **Nigerian Ports Authority,** *Nigeria.* This member is reinstated as an active member after settlement of all debts early in 2021.

Approve the suspension of industrial membership for:

- **Northwest Plastics Ltd (DBA Tidal Marine)** – *Canada*
- **Zhejiang Space-Iching Science & Technology Co Ltd.** *People's Rep. of China*
- **BoLoomo Beijing Technology Co. Ltd.** *People's Rep. of China*

Approve the suspension of Associate membership for:

- **Qatar Ports Management Company -Mwani;** *Qatar*

16 COMMUNICATION

Communication officer Audrey Guinault introduced all of Agenda point 16.1 and 16.2.

16.1 Website

The website has been improved further with updating of the Dashboard for committee meetings. The functionalities and easy access to information were developed to support the virtual meetings. The main menu of the website has been slightly revised to be more user friendly and allow better navigation through the site. A new event website has been created for events like workshops and seminars. The first instance of this was used for the MASS workshop. A website dedicated to Heritage & Culture has been developed and is now being populated. It is nearly ready to be launched.

16.2 Other media

Input paper C73-16.2.1 refers.

The Webinar series have been quite successful and has helped IALA to keep contact with the members and to share information through a new tool during the pandemic of Covid-19. Participation is quite good with an average of 100 participants on the day and the number of Youtube views per video that ranges from 68 to 1055 over the last 6 months.

The last issue of the printed Bulletin was sent at the beginning of this year.

The e-Bulletin would, from now on, be slightly more consistent with a larger range of articles. One extra banner was added to offer more opportunities for the industrial members to advertise their products.

The annual report is finished and input paper C73-16.2.1 refers. It will be sent electronically very shortly.

The council noted the information provided.

17 ANY OTHER BUSINESS

There was no other business.

18 DATES AND PLACES FOR NEXT MEETINGS

The Council approved the following tentative dates and venues for the following sessions:
- Session 74: 13-17 December 2021 (week 50), IALA Headquarters
- Session 75: 30 May -3 June 2022 (week 22), Rio de Janeiro, Brazil
- Session 76: 12-16 December 2022 (week 50), IALA Headquarters
- Session 77&78: May-June 2023 Rio de Janeiro, Brazil

The President closed the meeting at 10:21 UTC on Thursday 10 June 2021. She thanked all participants for their dedication that allowed the meeting to be successful. She thanked the Secretariat for their support. She expressed her condoleances to the councillor for India who passed away from Covid-19 in April 2021. She wished everyone to keep well and safe and hoped that we can all overcome this pandemic soon.

ANNEX A – AGENDA FOR THE MEETING
APPROVED AGENDA

ITEM	ACTION REQUESTED
1. PRESIDENT'S OPENING REMARKS	Note
2. APOLOGIES FOR ABSENCE	Note
3. APPROVAL OF THE AGENDA **3.1 Draft Agenda**	Approve
4. VACANT POSITIONS WITHIN COUNCIL	Note
5. REPORT OF THE 72nd SESSION **5.1 Matters arising from the session**	Note
6. REPORT BY THE SECRETARY GENERAL	Note
7. NATIONAL MATTERS	Note
8. STRATEGY AND POLICY **8.1 Current Drivers and Trends** 8.1.1 Draft Current Drivers and Trends Ed2.0 8.1.2 Input paper Current Drivers and Trends _ Korea **8.2 Policy Advisory Panel** 8.2.1 Report of PAP41 **8.3 Change of status** 8.3.1 Status on signatures and ratifications 8.3.2 Timeline for the transition period	Approve Discuss Note Note Note
9. FINANCE AND AUDIT COMMITTEE REPORT **9.1 2020 Audited financial statements** **9.2 Budget monitoring statement as of 30th April 2021** **9.3 Revised Budget for 2021** **9.4 Membership situation status**	Note Note Approve Approve/Note
10. TECHNICAL ACTIVITIES	

ITEM	ACTION REQUESTED
10.1 Committee work organisation 10.1.1 1st half 2021 Committee work summary 10.1.2 Revised Committee work programme 2018-2023 10.1.3 Committee meetings and events dates in 2021 and 2022	Note Approve Note
10.2 ARM 10.2.1 ARM13 summary report 10.2.2 Revised Recommendation R0143 Provision of Virtual Aids to Navigation Ed2.0 10.2.3 Revised Guideline G1081 Provision of Virtual Aids to Navigation Ed.2.0 10.2.4 Revised Guideline G1143 Unique Identifiers for Maritime Resources Ed3.0 10.2.5 New Guideline on Ship Reporting from a shore-based perspective Ed1.0 10.2.5.1 Note on New Guideline on ship reporting from a shore based perspective	Note Approve Approve Approve Approve Note
10.3 ENG 10.3.1 ENG13 summary report 10.3.2 New Recommendation on Provision of GNSS Augmentation Service for maritime applications Ed1.0 10.3.3 Revised Recommendation R0110 Rhythmic characters on Aids to Navigation Ed5.0 10.3.4 Revised Guideline G1134 Surface colours used as visual signals on AtoN Ed2.0 10.3.5 Input to Council on ERPS Workshop 10.3.5.1 Workshop proposal on ERPS 10.3.6 Proposed IALA Heritage Lighthouse of the Year 2021	Note Approve Approve Approve Approve Note Determine
10.4 VTS 10.4.1 VTS50 summary report 10.4.2 New Guideline on competencies - planning and implementing VTS Ed1.0 10.4.3 Revised Guideline G1141 operational procedures for delivering VTS Ed2.0 10.4.4 Revised Guideline G1110 use of decision support tools for VTS personnel Ed2.0 10.4.5 Revised Guideline G1132 on VTS Voice Communications and Phraseology, Ed 2.0 10.4.6 Revised Guideline G1017 on assessment of prior learning exemption for VTS model courses, Ed2.0	Note Approve Approve Approve Approve Approve
10.5 ENAV 10.5.1 ENAV27 summary report	Note

ITEM	ACTION REQUESTED
10.5.2 New Guideline on the Evaluation of Platforms for the Provision of Maritime Services in the Context of e-Navigation Ed1.0	Approve
10.6 S-200 development 10.6.1 Committees work on S-200	Note
10.7 Digital@Sea 10.7.1 Digital@Sea webinar	Note
11. WORLD-WIDE ACADEMY	
11.1 Progress report and future actions	Note
11.2 Academy Risk Register	Note
12. INTERNATIONAL **12.1 ITU** 12.1.1 IALA response to WP 5B on Revision of Recommendation ITU-R M.1371-5	Note
12.2 CIRM 12.2.1 Liaison CIRM on Enhanced Radar Positioning System	Approve
12.3 ETSI 12.3.1 Liaison ETSI on Radar Standards	Approve
12.4 RTCM 12.4.1 Liaison note RTCM on responses to SC104	Approve
12.5 IMO 12.5.1 IGO paper to MSC 103	Note
12.5.2 IMSAS to MSC 103	Note
~~12.5.3 3GPP to IMO ITU EG~~ [withdrawal]	~~Note~~
~~12.5.4~~ Report on IMO	Note
13. IMC	Note
14. CONFERENCES, SYMPOSIA AND OTHER EVENTS	
14.1 2020(2021) – VTS-e-Navigation Symposium – The Netherlands - Report	Note
14.2 2023 – 20th Conference – Brazil	Note
14.3 2025 – 15th Symposium - Singapore	Note
14.4 2027 – 21st Conference – India	Note
14.5 World Marine Aids to Navigation Day	Note

ITEM	ACTION REQUESTED
15. **MEMBERSHIP**	
15.1 **Applications for Membership**	Approve
15.2 **Resignations and Changes in Membership**	Note
15.3 **Terminations and suspensions of Membership**	Decide
16. **COMMUNICATION**	
16.1 **Website**	Note
16.2 **Other media**	Note
17. **ANY OTHER BUSINESS**	
18. **DATES AND VENUES FOR NEXT MEETINGS**	Note

ANNEX B – LIST OF PARTICIPANTS

Republic of Korea- Ministry of Oceans and Fisheries
        Ms KIM, Young-shin **(President)**

        Ms KIM Jeonghwa
        Director, Aids to Navigation Division
        e-mail: goodpo@korea.kr

        Mr CHO, Yonghun
        Assistant Director, Aids to Navigation Division
        e-mail: clicker2000@korea.kr

        Mr BAE Yonchan
        Assistant Director
        e-mail: mikebae@korea.kr

Brazil   **Diretoria de Hidrografia e Navegação (DHN) of the Brazilian Navy**
        Mr Alberto Piovesana Jnr.
        Advisor
        e-mail: piovesana@marinha.mil.br / albertopiovesana@yahoo.com.br

United Kingdom **Trinity House (Treasurer)**
        Captain Ian McNAUGHT
        Deputy Master
        e-mail: deputy.master@thls.org

        Northern Lighthouse Board
        Commodore Mike BULLOCK
        Chief Executive
        e-mail: Mike.Bullock@nlb.org.uk

Australia   **Australian Maritime Safety Authority**
        Mr Mick KINLEY
        Chief Executive Officer
        e-mail: ceo@amsa.gov.au

        Julian MITCHEL
        Manager, Asset Capability (Response)
        e-mail: julian.mitchell@amsa.gov.au

Canada   **Canadian Coast Guard**
        Mr André CHATEAUVERT
        Manager, Land-Based Electronics, Integrated Technical Services
        e-mail: Andre.Chateauvert@dfo-mpo.gc.ca

Chile   **Maritime Territory and Merchant Marine**
        Armada de Chile, Directemar
        Commander CG Mr. Jaime GATICA
        Head of Chilean Aids to Navigation Service
        e-mail: jgatica@directemar.cl

        Mr James CRAWFORD
        IALA advisor for the National Maritime Administration of Chile

e-mail: jcrawford@directemar.cl
Mr Henry HARRIAGADA
e-mail: harriagada@directemar.cl
Liutenant Commander CG Mr Carlos MARTINEZ
e-mail: cmartinezr@directemar.cl

China   **Maritime Safety Administration**
Mr YANG Xinzhai
Deputy Director-General
e-mail: hschc@nhhb.org.cn

Mr WANG, Ping
Director
e-mail: hschc@nhhb.org.cn

Mr LI, Wenhua
Deputy Director
e-mail: hschc@nhhb.org.cn

Mr LUO, Ziwen
Deputy Section Chief
e-mail: hschc@nhhb.org.cn

Denmark   **Danish Maritime Authority**
Mr Niels Peter FREDSLUND
Deputy Director-General
e-mail: npf@dma.dk

Jan THORN
e-mail: jat@dma.dk

Finland   **Finnish Transport Infrastructure Agency**
Mr Simo KERKELA
Head of Fairways Unit
e-mail: Simo.Kerkela@vayla.fi

Ms Kaisu HEIKONEN
Senior Technical Advisor
e-mail: Kaisu.Heikonen@vayla.fi

France   **Ministère de l'Ecologie, de l'Energie et du Développement Durable**
Captain Vincent DENAMUR
Head, Maritime Safety Division
e-mail: vincent.denamur@developpement-durable.gouv.fr

Germany   **Federal Waterways and Shipping Authority**
Dipl.Ing. Christian FORST
Head of Aids to Navigation service
e-mail: christian.forst@wsv.bund.de

Dr Christina SCHNEIDER

christina.schneider@wsv.bund.de

India	**Directorate General of Lighthouses and Lightships**
	Mr N. MURUGANANDAM
	Director General (in-charge)
	e-mail: noida-dgll@nic.in
	Mr S.B. MISHRA
	Director
	e-mail: noida-dgll@nic.in
Italy	**Ministero delle Infrastrutture e dei Trasporti – GUARDIA COSTIERA**
	Rear Admiral Piero PELLIZZARI
	Direttore Marittimo del Veneto
	e-mail: piero.pellizzari@mit.gov.it
	Marco NOBILE
	e-mail: marco.nobile@mit.gov
Japan	**Japan Coast Guard**
	Rear Admiral Tsuguo AWAI
	Deputy Director General, Administration Department
	e-mail: jcghkokugikaihatsu1-6r9i@mlit.go.jp
	Captain Takeshi KISHIDA
	Director, International Affairs and Engineering Development Office,
	Maritime Traffic Department
	e-mail: jcghkokugikaihatsu1-6r9i@mlit.go.jp
	Mr Hideki NOGUCHI
	Special Assistant to the Director, Administration and Planning Div., Maritime Traffic Department
	e-mail: jcghkokugikaihatsu1-6r9i@mlit.go.jp
Malaysia	**Light Dues Board Peninsular Malaysia**
	Mr Baharin ABDUL HAMID
	Chairman
	e-mail: rossid@marine.gov.my
	Marine Department of Malaysia
	Ms Roslee MAT YUSOF
	Director, Traffic Management and Aids to Navigation Division
	e-mail: roslee@marine.gov.my
Kingdom of Morocco	Ports and Maritime Public Domaine Direction
	Ms. Sanae ELAMRANI
	Acting Director
	e-mail: S.ELAMRANI@mtpnet.gov.ma
	Mrs. Safae LYAZIDI
	Head of Port and Maritime Safety, Security and Environment Unit
	e-mail: s.lyazidi@mtpnet.gov.ma
The Netherlands	**Ministry of Infrastructure and the Environment**

Ms Brigit GIJSBERS
Director, Maritime Affairs
e-mail: Brigit.gijsbers@minienw.nl

Mr Maarten BERREVOETS
Senior Policy Advisor
e-mail: Maarten.Berrevoets@minienw.nl

Norway   **Norwegian Coastal Administration**
Mr Arve DIMMEN
Director, Maritime Safety
e-mail: arve.dimmen@kystverket.no

Henning OSNES TEIGENE
e-mail: henning.osnes.teigene@kystverket.no

Singapore   **Maritime and Port of Authority of Singapore**
Captain Muhammad SEGAR
Assistant Chief Executive (Operations)
e-mail: m_segar@mpa.gov.sg

Mr Benjamin WONG
Senior Manager (International Organisational Unit)
e-mail: Candice_NG@mpa.gov.sg

Ms Farrah Mohd FADIL
Deputy Director (International)
e-mail: farrah_mohd_fadil@mpa.gov.sg

Ms Lynn TAN
Manager (Operations Special Projects Office)
e-mail: lynn_tan@mpa.gov.sg

Mr Arthur LIM
Assistant Manager (International)
e-mail: Arthur_lim@mpa.gov.sg

Mr Eng Soon AW
Assistant Hydrographer
e-mail: AW_Eng_Soon@mpa.gov.sg

Tze Kern Teo
e-mail: TEO_Tze_Kern@mpa.gov.sg

Kim Chuan Tee
e-mail: TEE_Kim_Chuan@mpa.gov.sg

Eunice Pui
e-mail :   Eunice_PUI@mpa.gov.sg

South Africa	**South AfricaTransnet National Ports Authority**
	Mr David GORDON
	Executive Manager, Lighthouse and Navigational Systems
	e-mail david.gordon@transnet.net

Spain	**Puertos del Estado**
	Mr Javier Martin Santo Domingo
	Deputy Director Port Services and Aids to Navigation
	e-mail : jmsd@puertos.es
	Mr Mar Chao
	e-mail: mchao@puertos.es

Sweden	**Swedish Maritime Administration**
	Mr Ove ERIKSSON
	Deputy Director-General
	e-mail: ove.eriksson@sjofartsverket.se
	Kerstin HANSDOTTER
	e-mail: Kerstin Hansdotter@sjofartsverket.se

Turkey	**Directorate General of Coastal Safety**
	Serhat AYTUGEL
	Head of Aids to Navigation and Marine Telecommunication Department
	e-mail : serhat.aytugel@kegm.gov.tr
	Kadir TURKSOY
	Deputy Director of VTS and Pilotage Department
	e-mail: kadir.turksoy@kiyiemniyeti.gov.tr

US	**Coast Guard**
	Captain Keith ROPELLA
	Chief, Office of Navigation System (CG-NAV)
	e-mail: keith.m.ropella@uscg.mil / kropella@hotmail.com

IMC	**Observer**
	Mr John SUGARMAN
	Australian Maritime Systems
	e-mail: John.Sugarman@ams.group
	Mr Simon BROOKS
	Australian Maritime Systems
	e-mail: Simon.Brooks@ams.group

IALA	**Secretary-General**
	Mr Francis ZACHARIAE
	e-mail: francis.zachariae@iala-aism.org
	Deputy Secretary-General and Dean, WWA
	Mr Omar Frits ERIKSSON
	e-mail: omar@iala-aism.org
	Technical Operations Manager
	Mr Minsu JEON

e-mail: minsu.jeon@iala-aism.org

Finance and Administration Manager
Mrs Christine PHILIP
e-mail: christine.philip@iala-aism.org

Communication Officer
Ms Audrey GUINAULT
e-mail: audrey.guinault@iala-aism.org

ANNEX C – ACTION ITEMS

Action item 1

The Secretariat to gather the Council Strategy Group prior to C74 with a view of finalising the Current Drivers and Trends document C73-8.1.1, taking into account C73-8.1.2 submitted by Korea.

Action item 2:

The secretariat to update the VTS Manual and publish the updated version on the IALA website.

Action Item 3:

The Secretariat to send the revised G1110 use of decision support tools for VTS personnel to the VTS committee for further discussion.

Action item 4

The secretariat to ask PAP to prepare a liaison note to be submitted to IMO ITU EG meeting scheduled in November.

Action item 5

The secretariat to send the liaison not on Enhanced Radar Positioning System to CIRM.

Action item 6

The secretariat to send the liaison note on Rada Standards to ETSI.

Action item 7

The secretariat to send the liaison note on response to SC104 to RTCM.

ANNEX D – RECORD OF DECISIONS OF THE 73rd SESSION OF THE IALA COUNCIL

The Council noted the 2020 audited financial statements and approved the allocation of profit of €150,000 to the Reserve for associative project.

The Council approved the revised budget for 2021.

The Council noted the membership situation status and approved the membership contributions rates for 2022 as follows:

- National members: €17,670
- Industrial members: €6,350
- Associate members: €3,070

The Council approved the revised Committee work programme for 2018-2023.

The Council approved the revised recommendation R0143 Provision of Virtual Aids to Navigation Ed2.0.

The Council approved the revised guideline G1081 Provision of Virtual Aids to Navigation Ed2.0.

The Council approved the revised Guideline G1143 Unique Identifiers for Maritime Resources.

The Council approved the new guideline on Ship Reporting from a shore-based perspective Ed1.0.

The Council approved the new Recommendation on Provision of GNSS Augmentation Service for maritime applications Ed1.0.

The Council approved the revised Recommendation R0110 Rhythmic characters on Aids to Navigation Ed5.0.

The Council approved the revised Guideline G1134 surface colours used as visual signals on AtoN Ed2.0.

The Council approved the workshop proposal on ERPS.

The Council decided on Cape Byron lighthouse, Australia as IALA Heritage Lighthouse of the year 2021.

The Council approved the new Guideline on competencies – planning and implementing VTS Ed1.0.

The Council approved the revised Guideline G1089 – Provision of a VTS.

The Council approved the revised Guideline G1141 operational procedures for delivering VTS Ed2.0.

The Council decided to send the revised Guideline G1110 use of decision support tools for VTS personnel back to the VTS committee for further discussion.

The Council approved the revised Guideline G1132 on VTS Voice Communications and Phraseology Ed2.0.

The Council approved the revised Guideline G1017 on assessment of prior learning exemption for VTS model courses Ed2.0.

The Council approved the new Guideline on the evaluation of platforms for the provision of maritime services in the context of e-Navigation Ed1.0.

The Council approved the Liaison note to CIRM on Enhanced Radar Positioning System.

The Council approved the liaison note to ETSI on Radar Standards.

The Council approved the liaison note to RTCM in response to SC104.

The Council approved National membership for:

- **Turks and Caicos Government Island,** *United Kingdom overseas Territories*

The Council approved Industrial membership for:

- **Indianic Group Pty, Ltd,** *Australia*
- **ATCO (Ports Management & Services),** *Saudi Arabia*
- **Safe Sea Service FZCO,** *United Arab Emirates*
- **Spire Global Luxembourg SARL,** *Luxembourg*
- **Shanghai Space Earth Information Technology Co., Ltd,** *People's Rep of China*
- **IHS Markit, Maritime & Trade,** *The United States of America*

The Council approved the termination of industrial membership for:

- **Pishgam Sanat Tahmin engineering Co.- TAHMIN** – *Iran*
- **Caveman Construction** - *Papua New Guinea*
- **Nawae Construction Ltd.** - *Papua New Guinea*
- **La Maquinista Valenciana, SA** – *Spain*

The Council reinstated National membership for:

- **Nigerian Ports Authority,** *Nigeria.* This member is reinstated as an active member after settlement of all debts early in 2021.

The Council approved the suspension of industrial membership for:

- **Northwest Plastics Ltd (DBA Tidal Marine)** – *Canada*
- **Zhejiang Space-Iching Science & Technology Co Ltd.** *People's Rep. of China*
- **BoLoomo Beijing Technology Co. Ltd.** *People's Rep. of China*

The Council approved the suspension of Associate membership for:

- **Qatar Ports Management Company -Mwani;** *Qatar*

The Council approved the following tentative dates and venues for the following sessions:

- Session 74: 13-17 December 2021 (week 50), IALA Headquarters
- Sessions 75: 30 May -3 June 2022 (week 22), Rio de Janeiro, Brazil
- Session 76: 12-16 December 2022 (week 50), IALA Headquarters
- Session 77&78: May-June 2023 Rio de Janeiro, Brazil

IALA