



IALA POLICY ADVISORY PANEL

Report of the 40th session of the IALA Policy Advisory Panel (PAP)

31 August, 2 -3 September 2020

**Report of the 40th session of the IALA
Policy Advisory Panel (PAP)
31 August, 2 -3 September 2020
Executive Summary**

The 40th session of PAP was held virtually for the first time over three sessions on 31 August and the 2 and 3 September 2020.

The PAP was updated on the latest decisions made at Council 71.

The current Work Programme and cross-committee cooperation were discussed.

The PAP noted updates on many items including:

- IMSAS
- S-200 / S-201
- Maritime Resource Name (MRN)
- e-Navigation Operational Service Description

The PAP agreed a plan to agree the Work Programme 2022-2026. Participants will be requested to start submitting task item proposals to the committees in the first half of 2021.

PAP members welcomed the new IALA Technical Documents Catalogue.

PAP members welcomed the efforts made by the Secretariat to prepare for the virtual committees. In order to increase the efficiency and user experience the Secretariat have been working on tools for participants to utilise during the virtual committee season. These tools have taken the form of a dashboard (that includes a fileshare, calendar and bulletin board) and also a mail group (as the main means of communication to the participants of each committee).

PAP noted the proposed plan of work included in the input paper for the update of Standards for their anticipated approval at the General Assembly of 2022 in accordance with Article 7.3 of the Constitution. PAP noted that due to the heavy workload of the committees, there may be a delay in beginning the revisions. The Secretariat will liaise with LAP regarding any legal considerations that may need to be taken into account with the transition to an IGO.

Table of Contents

Executive Summary	3
Table of Contents	4
1. Introduction	7
1.1 Welcome by the Secretary-General and Deputy Secretary-General	7
1.1.1 Welcome by the Secretary-General	7
1.1.2 Welcome from the Deputy Secretary-General	8
1.2 Approval of the agenda	8
1.3 Apologies and Introductions	8
2. Review of Action Items from the Last Meeting.....	8
2.1 Review of Action Items from PAP 39	8
3. Review of Input Papers to PAP40.....	9
4. Reports From Other Bodies.....	9
4.1 IALA	9
4.1.1 IALA Council	9
4.2 IMO	10
4.2.1 IMO ITU Experts Group	10
4.3 IHO	10
4.3.1 Technical Coordination Meeting	10
4.4 ITU	10
4.4.1 VDES and VDES R-Mode	10
4.5 Other (PIANC, CIRM, IMPA, & IHMA etc.)	10
4.5.1 e-Navigation Underway (ENUW)	10
4.5.2 3GPP	11
5. Coordination.....	11
5.1 Progress reports	11
5.1.1 ENAV	11
5.1.2 VTS	11
5.1.3 ENG	11
5.1.4 ARM	12
5.1.5 IMC	12
5.1.6 LAP	12
5.1.7 WWA	12
5.2 S1010 AtoN Planning and Requirements	12
5.2.1 IMSAS	12
5.3 S1020 AtoN Design and Delivery	12

5.4	S1030 Radionavigation Services	12
5.4.1	Future of DGNSS	13
5.4.2	SBAS	13
5.5	S1040 Vessel Traffic Services	14
5.6	S1050 Training and Certification	14
5.6.1	Distance learning	14
5.7	S1060 Digital Communication Technologies	14
5.8	S1070 Information Services	14
5.8.1	IALA S200 development	14
5.8.2	Maritime Resource Name (MRN)	14
5.8.3	e-Navigation Operational Service Description	14
5.9	Committee work programme and structure	14
5.9.1	Committee Work Programme 2018-2022 and 2022-2026	14
5.9.2	Future committee structure	15
5.10	Operations/Administration	15
5.10.1	IALA Dictionary	15
5.10.2	File Sharing Arrangements	15
5.10.3	Communications	15
5.10.4	IALA website	15
5.10.5	Committee reports	15
5.10.6	Virtual committees	16
5.10.7	Technical documents catalogue	16
5.11	Other	16
5.11.1	IALA AtoN Questionnaire	16
5.11.2	IALA VTS Questionnaire	16
5.11.3	IALA VTS Manual	16
5.11.4	IALA NAVGUIDE	16
5.11.5	IALA VTS-ENAV Symposium	16
6.	Strategy and policy.....	17
6.1	Strategic goals and policies	17
6.1.1	Drivers and trends	17
6.1.2	IALA Position on the Development of AtoN Services	17
6.1.3	Cross-committee Coordination	17
6.1.4	Revision of IALA Standards	17
6.1.5	IALAs involvement in MASS	18
6.1.6	Document structure - inclusion of information papers	19
6.2	Challenges and Opportunities	19
6.2.1	COVID-19 response	19
6.3	The IGO Project	19
7.	Any Other Business	20
8.	Report of the Meeting.....	21
9.	Date and Venue of Next Meeting.....	21

10. Closing of the Meeting 21

11. List of Annexes to the Report..... 21

Report of the 40th Session of the IALA

Policy Advisory Panel

GENERAL

The 40th meeting of the Policy Advisory Panel (PAP) was held on 31 August, 2 and 3 September 2020 virtually, with IALA Deputy Secretary-General Omar Frits Eriksson as Chair and Thomas Southall as Secretary.

1. INTRODUCTION

1.1 Welcome by the Secretary-General and Deputy Secretary-General

1.1.1 Welcome by the Secretary-General

The Secretary-General welcomed all members to PAP40 and provided an update on the highlights of IALA activities since the last PAP meeting. He stated:

‘Since the successful Diplomatic Conference to adopt the Convention on the International Organization for Marine Aids to Navigation took place in Kuala Lumpur in February, the world has been in the grip of the COVID-19 pandemic. Faced with this unprecedented challenge in our lifetime and following the advice provided by the World Health Organization, the Government of France, other Governments and actions taken by sister organizations we have implemented several protective measures. These have involved the cancellation or postponement, as appropriate, of Committee and other meetings, and halting the World-Wide Academy staff’s travel for the purpose of conducting missions.

The decision was also taken to postpone the four-yearly Symposium in Rotterdam, but the Dutch Ministry of Infrastructure and Water Management is planning to host the Symposium from 19 to 23 April 2021. More on this later.

Sadly, the celebration of the main event for this year’s celebration of World Marine Aids to Navigation Day, on 1 July, in Burgas, Bulgaria, also had to be cancelled and a new date will be chosen as soon as the situation is clearer. A second event in Omaezaki, Japan later this year is also very doubtful.

The calendar of planned meetings during the second half of this year can be viewed on the web site and as you know they will all be virtual. I am very grateful to all PAP members for the support to the very complicated plan for these virtual meetings and I hope they will be successful.

The virtual meetings also include the important Mid-Term Assembly of the Industrial Members’ Committee, due to take place on 6 October.

As a further COVID-19 protective measure the headquarters in Saint Germain-en-Laye has been physically closed since mid-March. I am proud of all my colleagues, who are working remotely from home in their usual effective and efficient manner, attending to e-mails, responding to the main office telephone number, and conducting online meetings of committee working groups and management teams. It goes to show how people can adapt quickly and competently when challenged by unavoidable necessity. Furthermore, the experience demonstrates the feasibility of a ‘virtual IALA’ ensuring the daily functioning of the Secretariat as would be expected from the membership. These measures will run until further notice.

The IALA Secretariat will continue to monitor COVID-19 related developments and make decisions on activities on a case-by-case basis, updating our website with any further news that may affect members and our activities. I have been encouraged, and am very grateful, for the support of all concerned, not least the committee chairs and vice-chairs, in minimizing the impact on the work programme and in advancing the work on important items, through e-mail correspondence and online meetings.

The main event since the last ordinary PAP meeting was of course the Diplomatic Conference hosted so professionally by our friends from Malaysia. The successful Conference now needs to be followed up by concrete action on the part of coastal State Governments to sign the Convention so that they may commence the national ratification process as early as possible. This will be covered under point 6.3.

I think we were very lucky, and that specific week was perhaps the last window of opportunity before the world closed due to the COVID Pandemic.

As you all know we have been joined by Jamie Alvarez as technical advisor and secretary to the committees. He has a strong technical background, knows IALA very well, and he is fluent in Spanish, French and English. Tom and Jamie will take care of two committees each and the related seminars, workshops etc. This will also give the needed resources for improved necessary quality assurance of the guidance documents before they are submitted to Council and on the web site. A warm welcome to Jamie.'

1.1.2 Welcome from the Deputy Secretary-General

The Deputy Secretary-General welcomed all members to the 40th meeting of the PAP, acknowledging that this is the first ordinary PAP session to be conducted online. He then stated:

'As mentioned by the Secretary General, the secretariat is dealing with the situation by taking it step by step and as mentioned it has been decided that all IALA meetings for the rest of the year, including the Council meeting in December, will be held virtually.

The secretariat has been working hard on developing the principles and procedures for how to conduct these meetings, and we believe that we have a functional model now. Due to the situation, we will probably spend some time on discussing these practicalities, but we will also have time to conduct some of the normal PAP business.

In the spring sessions of the committees, the work programme was advanced somewhat, but at a slower pace than normally. It will be better this time around, but we will probably not come up to full speed until we are back physically in Saint Germain-en-Laye or at least in some sort of hybrid form where some participants will have to attend virtually due to possible travel restrictions for some time to come yet.

In order to facilitate our communication during this meeting we have created an Outlook mail group named IALA PAP40 which we can use to exchange information during the meeting.

Wishing us all a fruitful meeting, let's move on to approving the agenda.'

1.2 Approval of the agenda

The agenda (input paper PAP40-1.2.1) was approved. The approved agenda is provided in ANNEX A.

1.3 Apologies and Introductions

No apologies were received.

2. REVIEW OF ACTION ITEMS FROM THE LAST MEETING

2.1 Review of Action Items from PAP 39

Input paper PAP39-2.1 refers.

The list of action items was reviewed from PAP39. PAP noted that most actions were completed; however a number were still ongoing but yet to be completed.

All ongoing action items will be forwarded to PAP41.

Action item(s):

*That the **Secretariat** together, with the committee vice-chairs, establish an intersessional correspondence group with the purpose of maintaining the currency of inter-related documents across committees.*

*That the **Secretariat**, in conjunction with the ENG Committee, update the DGNSS questionnaire to include a method of obtaining corrections (SBAS).*

*That the **Secretariat** adds the date of publication to all documents referred to in the Work Programme and confirms the consistent use of 'Marine Aids to Navigation' in the respective document titles.*

*That the **Secretariat** investigates and prepares a list of which browsers support the IALA website and provides feedback to PAP40.*

*That the **Secretariat** investigates and the appointment of an Editor to oversee the finalization of the next version of the NAVGUIDE.*

3. REVIEW OF INPUT PAPERS TO PAP40

Members noted the input paper list (PAP40-3.1.1). A list of input papers is provided in ANNEX C.

4. REPORTS FROM OTHER BODIES

4.1 IALA

4.1.1 IALA Council

Input paper PAP40-4.1.1.1 refers.

Council 71 was held between the 3 – 4 June 2020 virtually. The report of Council 71 was considered in general by the PAP.

ENG WG4 shortlisted three nominations of the heritage lighthouse of the year for Council's consideration, respectively in Brazil, Estonia and India. The Council decided the Santo Antônio da Barra Lighthouse as the heritage lighthouse of the year 2020.

The Council noted that the ARM Committee considered the contents of G1105 on shore-side portrayal ensuring harmonisation with e-Navigation related information for the update of G1072, and concluded that both guidelines are point-in-time documents. Updating G1105 could cover the contents of G1072, and this task would be coordinated with the VTS Committee. PAP noted that an inter-committee correspondence group could progress this. The Council, therefore, approved the revocation of G1072 - AtoN Information Exchange and Presentation. The Secretariat undertook to provide input to all committees on the subject.

It was brought to PAP's attention that IEC's maintenance work on the 3rd edition of IEC62288 Navigation Presentation standard, which amends or clarifies various Application Specific Message and AtoN portrayal matters, including the addition of MAtoN, was drawing near a close (15-18 September 2020); PAP members were urged to review and provide comments and input, if needed, to Jorge Arroyo.

The ARM Committee also submitted a revision of Guideline 1143 on Unique Identifiers for Maritime Resources. The revision included more examples of MRN, and MRN for publications, and the wildcard for use where it is unknown or impractical to assign any namespace identifiers. Some of the councillors questioned the definition of uniqueness in the draft Guideline, and as a result, the meeting decided to send Guideline G1143 edition 2.0 back to the ARM Committee for further discussion.

The Council approved the new edition of the VTS Manual and noted that it had become clearer and concise. Consequently, the publication will better assist those who are in any way involved with VTS. The Council also expressed their warmest thanks to Neil Trainor of AMSA who devoted a lot of work to this new edition of the VTS Manual.

PAP noted that the Swedish Councillor had pointed out the importance of environmental drivers on the association's work and requested that IALA develops a position on environmental issues in the document *Current Drivers and Trends Ed 1.1*.

Action item(s):

*The **Secretariat** to follow the work of committees on the portrayal topic and provide input to the next PAP for further discussion.*

*That **Members** provide, if needed, comment or input on the IEC's work on IEC62288 standard (PAP40-7.1) to Jorge Arroyo (jorge.arroyo.uscg@gmail.com) before the 15th September 2020; or to IEC in November/December when the edition is brought to a vote.*

4.2 IMO

4.2.1 IMO ITU Experts Group

It was noted that the COVID-19 crisis had also impacted the IMO's activities, and most of the meetings for the first half of this year were postponed to later on in 2020. The 16th session of the Joint IMO/ITU Experts Group on Maritime Radiocommunication Matters are conducted by correspondence from 3 July to 18 September. An extra-ordinary session of IMO Council conducted a priority exercise for all the meetings and revised the meeting calendar which now includes the following dates:

FAL44: 28 September - 2 October 2020

MSC102: 4 - 11 November 2020

TCC70: 7 - 11 December 2020

It was also noted that an extra-ordinary session of a committee may be held if 20 Member States request it, and the IALA Secretariat are monitoring any developments.

The IMO Experts Group on Data Harmonization (EGDH) will be held 5 to 9 October 2020 virtually using Microsoft Teams.

IMO have revoked next years calendar and will release new dates once global events become clearer.

4.3 IHO

4.3.1 Technical Coordination Meeting

IALA is maintaining its liaison with IHO. It was noted that IHO is trying to conduct the Hydrographic Services and Standards Committee (HSSC) as a hybrid meeting with those that can travel to attend the meeting in Monaco, and then virtual meeting option for other participants.

It was agreed that the next technical coordination meeting would be held virtually and the date will be agreed shortly between the two organizations.

4.4 ITU

4.4.1 VDES and VDES R-Mode

VDES work is progressing with a Danish project to launch a VDES satellite well underway. SAAB plans to also launch a VDES satellite in a consortium with ORBCOMM and others. It was noted that a critical mass may have been reached for implementation and industrial organizations are now advertising VDES equipment.

It is believed that True Heading, who hold an R-mode patent, are moving out of this area and looking for a buyer to purchase the patent. PAP noted that, according to experts, the work of IALA does not infringe upon the patent.

4.5 Other (PIANC, CIRM, IMPA, & IHMA etc.)

4.5.1 e-Navigation Underway (ENUW)

e-Nav Underway Asia Pacific will be conducted as a virtual conference by the Ministry of Oceans and Fisheries in Korea on 7 - 8 September 2020. This will be the last ENUW conference before changing the name to Digital@Sea in order to cover a broader subject area and encompass the whole maritime digital agenda, capacity building and the maritime cluster. IALA will continue to play an organizing role accompanied by, hopefully, key players such as the DMA and USCG.

4.5.2 3GPP

Minsu Jeon, Technical Operations Manager, provided an update to PAP regarding the developments and implementation of 3GPP. The 5G's satellite component would have a significant impact on the maritime and remote land area that currently has no signal coverage.

3GPP finalised release 16 at its 88th Technical Assembly in July this year which includes phase 1 of the satellite component, and it will be submitted to the ITU to complete the ITU 5G IMT-2020 project.

This technology continues to develop rapidly, and some IALA members and others in the maritime domain are already implementing or testing, different applications using 3GPP. PAP noted that ENAV is currently working on a recommendation and guideline on the subject and this will be continued next session.

5. COORDINATION

5.1 Progress reports

5.1.1 ENAV

ENAV Chair, NOGUCHI Hideki, reported that some working groups met intersessionally and progressed a number of tasks. Liaison with participants of ARM took place and a further joint ARM / ENAV meeting will take place to discuss symbology further. It is anticipated that the draft guidelines on 3GPP and VDES will be progressed during the next ENAV meeting.

5.1.2 VTS

VTS Chair, Monica Sundklev, reported that intersessional work had been undertaken over the recent months. Five groups made great progress on various tasks and their output is now submitted as input papers to VTS49. In addition the VTS Manual was finalized by the coordination group. Overall the VTS committee is happy with the progress and on track.

5.1.3 ENG

Input document PAP40-5.1.3.1 refers.

ENG Chair, Simon Milyard reported that ENG11 and the Heritage Seminar were not held in Salvador, Brazil in March due to the COVID-19 pandemic.

In order to progress the Work Programme, initially the Chairs, Vice Chairs of the 4 WGs and members of the IALA Secretariat met virtually to decide what work should be tackled. All WGs were successful in progressing some items though it was agreed that no items required sending outside the committee due to the lack of scrutiny of a Plenary session. Work was progressed on : Relative Intensity Guideline, Guidance on Colour fading, Solar Panel selection, Buoy characteristic, Radar reflectors, Satellite & PNT, Terrestrial Positioning Recommendation, R-Mode guideline, Product Specification S-240, Racon & Radar positioning, WWRNP initial review, Nominations for the Heritage Lighthouse of the Year sent to Council.

Regrettably, the Heritage Seminar has been postponed as has the Workshop planned in Sydney, Australia on AtoN Engineering and the Cyber Security Workshop in Canada. Dates for these are still to be decided.

Preparations for a more comprehensive ENG12 in September/October are now complete and we look forward to a productive committee in the new virtual environment.

We were sad to hear that WG2 Chairman Jordan Lane-Beveridge, from the Canadian Coast Guard, has moved to a new role in the Canadian Government and has left the IALA committee and we are currently looking for a member to replace his position.

The Chair, Simon Milyard also reported that he felt it is was difficult to integrate new committee members into being a constructive and regular contributors and there is a danger that with 10% to 20% new members each committee session the committee may start to lose numbers over time. Therefore he looks forward to returning to Saint-Germain-en-Laye either in full or as a hybrid committee (where some attend in person and others log in to join them for the various sessions) as soon as we can safely do so.

5.1.4 ARM

Input document PAP40-5.1.4.1 refers.

The ARM Chair, Phil Day, expressed his delight that ARM11 could go ahead in Buenos Aires earlier in the year and acknowledged the tremendous organization that Hydrovia and in particular the efforts of Raul Escalante undertook to make the event a success.

PAP noted that one of the task groups had already met in Argentina as a hybrid physical / online meeting successfully.

The intention for ARM12 is to focus on key tasks such as the MBS, MRN edition 2, S200 / S-201 but no new tasks will be started. Members of Working Group 2 have progressed the work on ship reporting over the summer and are submitting input to ARM12. A decision will also be made shortly whether to progress the task on operational service descriptions or postpone until the next work programme in coordination with the ENAV Committee.

5.1.5 IMC

Members recorded their sadness regarding the recent closure of Tideland signal and acknowledged the support that many industrial members were giving to the companies former employees. The PAP then noted the recent efforts to encourage industrial members active participation in IALA activity and urged them to continue.

5.1.6 LAP

Owing to the proximity of the Diplomatic Conference earlier in the year the planned LAP in March did not go ahead. LAP21 is scheduled to take place 13 -15 October 2020.

5.1.7 WWA

The Deputy Secretary-General reported to members the impact that COVID-19 had had upon the work of the Academy. The lack of travelling had intensified the emphasis upon distance learning and this has included improving both the content and the platform for delivery. Two consultants, Dawn Seepersad and Sarah Robinson, have also been added to the pool of Academy staff.

Distance learning courses are continuing, with the Master of Marine Aids to Navigation Management course commencing this week.

5.2 S1010 AtoN Planning and Requirements

5.2.1 IMSAS

Input documents PAP40-5.2.1.1 and PAP40-5.2.1.1.1 refers.

Minsu Jeon provided an update on the IMSAS task. PAP recalled the agreed framework and roadmap at PAP 39 for submitting amendments of IMSAS to the IMO. However, due to the pandemic and the subsequent interruption to the work of IMO, the dates for submission are now uncertain. The Secretariat will undertake to establish IMO's intentions for updating IMSAS.

The PAP then noted the work conducted at ARM12 and agreed that VTS and LAP would continue the review during their respective upcoming meetings.

Action item(s):

*The **Secretariat** to find out IMO's revised intentions for the process of updating the IMSAS manual.*

5.3 S1020 AtoN Design and Delivery

No matters arising.

5.4 S1030 Radionavigation Services

5.4.1 Future of DGNSS

The PAP recalled the workshop held in Edinburgh in January 2020 on the future of DGNSS. Minsu Jeon provided a presentation which included the results of the IALA questionnaire, which provided statistics for the number of DGNSS / DGPS stations showing a decrease since 2014.

It was noted that Australia have withdrawn the service in July 2020, and the UK have decided to close the DGPS service by 31 March 2022. The USCG also closed their last station on the 1 July 2020 but during this process, it was learned that not only did the US stations provide a correction to the GPS, but they also converted WGS84 datum to North American datum for US paper charts, as a consequence all AtoN had to be positioned back to WGS84 datum.

More discussions will continue in the committees on the future utilisation of DGPS assets, including the frequencies and alternative system.

5.4.2 SBAS

ENG WG3 has drafted the Recommendation on Provision of GNSS Augmentation Services for maritime navigation applications which will enable GNSS augmentation service providers to formally declare and capture their service offering and responding to the need of:

- Provide clarity on GNSS augmentation services being offered for maritime navigation use IMO1046
- GNSS augmentation systems do not need to be recognised as components of its WWRNS
- Some GNSS augmentation services, while being available to maritime user equipment, may not have been developed for maritime navigation use and may not recognise a maritime user
- Administrations may also capture their radiobeacon DGNSS service information

The recommendation through an annex provides the following key information from the Service Provider (SP): service being offered and operational, confirmation that the service will be backward compatible, notifications of expected or planned changes to the services, contact details of the SP, Advice on where information relating to the service can be found, Terms and conditions to access the Service. Additionally, the following details are also recommended to be provided: augmentation geographic area, expected performance in terms of accuracy, availability, continuity and integrity, format in which the GNSS augmentation data is provided, information about GNSS augmentation service outages.

European SBAS update: working in standardisation at receiver level for the use of standardised SBAS shipborne receivers

European Commission (EGNOS owner), the GNSS Agency, GSA (EGNOS Services Programme Manager), the European Space Agency, ESA (EGNOS design agency) and the European Satellite Services Provider, ESSP (EGNOS service provider) are working in close collaboration to support the standardisation of SBAS in maritime receivers. In addition, two of officially recognised European Standardisation Organisations, the European Committee for Standardisation, CEN and the European Committee for Electrotechnical Standardisation, CENELEC, are working on a proposal to develop a new test standard on SBAS for shipborne receivers in International Electrotechnical Commission, IEC (IEC 61108-x).

ESSP, GSA and ESA in the frame of RTCM Special Committee 104 (Radio Technical Commission for Maritime Services) are developing the Draft Guidelines for Manufacturers for the Implementation of SBAS in Shipborne Receivers Including Methods of Testing and Required Test Results, planned to be published by end of 2020. Including:

- Receiver algorithm recommendations
- Set of SBAS messages to be processed by an SBAS receiver for the maritime compliant with the operational requirements IMO1046
- Tests specifications to be passed in order to meet the expected performance

GSA launched the *MAREC project* with Kongsberg in 2018 aiming at developing a maritime receiver in line with these SBAS guidelines, whose algorithms were tested in a laboratory and in a real environment.

These SBAS guidelines aim at supporting the IEC standardisation process for an SBAS shipborne receiver standard to ensure a safe use of SBAS by the maritime community (type-approved receivers). IEC standardisation process plans to be started by Q3 2020, whose process may be completed by 2022.

5.5 S1040 Vessel Traffic Services

No matters arising.

5.6 S1050 Training and Certification

5.6.1 Distance learning

Refer to section 5.1.7 in this report. It was also noted that during the COVID-19 crisis there has been an increased interest and emphasis on AtoN staff training and certification.

5.7 S1060 Digital Communication Technologies

No matters arising.

5.8 S1070 Information Services

5.8.1 IALA S200 development

Although there was not a great deal of work on S-200 earlier in the year, Minsu Jeon introduced the work conducted on S-201 that took place between IALA members during recent months. S-201 edition 1.0.0 was published following ARM10, and some members conducted a requirements analysis. This analysis found that clarification was required around a number of AtoN definitions, terms and features that should be agreed with IHO. These matters will be discussed at the next Technical Cooperation Meeting with IHO.

ARM12 will continue this work and the Republic of Korea and Canada have provided input to the Committee regarding the implementation guide of draft edition 2.0.0. There was also an update on the KRISO S-201 testbed system which now incorporates an S-201 editor. The PAP noted that the USCG had also been using an FME tool with a quality checking system to check the AtoN information before portraying them on a chart.

General discussion highlighted that it should not be a risk of too many AtoN attributes being listed under S-201, as a Competent Authority may decide what attributes to list to meet its requirements.

IALA, through the ARM Committee, plans to draft a proposal to IMO NCSR8 on a new Maritime Service on Marine Aids to Navigation.

5.8.2 Maritime Resource Name (MRN)

Minsu Jeon provided an update on the work ARM had conducted in edition 2.0 of the MRN Guideline at ARM11. This included amendments the syntax, new types of publications and elaborates on the examples of MRNs for items such as lighthouses and wildcards. This work will be continued at ARM12.

5.8.3 e-Navigation Operational Service Description

NOGUCHI Hideki, the Chair of ENAV reported that some participants had reviewed the draft guideline on e-Navigation Operational Service Description over recent months. There were a number of minor changes identified, and this work will continue with an intercommittee group consisting of participants from ENAV, ARM and VTS.

5.9 Committee work programme and structure

5.9.1 Committee Work Programme 2018-2022 and 2022-2026

Input documents PAP40-5.9.1.1, PAP40-5.9.1.2, PAP40-5.9.1.2.1 and PAP40-5.9.1.2.2 refers.

Minsu Jeon introduced the current 2018-2022 Work Programme. General discussion recalled that all the work of IALA should stem from this document, and committee chairs should ensure that work being undertaken relates directly from the Work Programme.

In accordance with the general regulation, committees need to prepare task item proposal for the next quadrennial Work Programme for approval of the Council. The purpose of the Work Programme is to clearly identify any items of work with outcomes and priorities taking account of the strategic vision 2018-2026, the current drivers and trends, and the IALA position document on the development of marine AtoN. Minsu Jeon then described the process for agreeing the Work Programme 2022-2026.

The discussion identified that work on this should commence in the first half of 2021 and finalize in 2022. Participants should be requested to submit proposals for task items to the first half 2021 committees.

The draft templates will be agreed at PAP41.

Action item(s):

*That **Committee Chairs** review their task plans and ensure that their task items directly relate to the Council approved Work Programme 2018-2022.*

*That **Committee Chairs** to request participants to submit proposals for task items to the first half 2021 committees for the 2022-2026 Work Programme.*

5.9.2 Future committee structure

This item will be discussed in depth at PAP41, although Members noted that utilization of online facilities had made IALA work to all participants of different committees much more accessible.

5.10 Operations/Administration

5.10.1 IALA Dictionary

ENG has provided updates to the Dictionary, and the IALA Dictionary Management Group will meet later on this year. The document agreed at PAP39 on the management of the Dictionary will be forwarded to all committees.

Action item(s):

*That the **Secretariat** forwards the agreed procedures on dictionary management to all committees.*

5.10.2 File Sharing Arrangements

Filesharing facilities are currently being reviewed due to technical difficulties with Pydio and they will be provided for the upcoming committee season.

5.10.3 Communications

Communication Officer Audrey Guinault introduced the concept of IALA webinars. The webinars will be a new communication tool for IALA to keep the members and the maritime community updated with the latest developments. The format will be 30 minute presentations with a question and answer session at the end. The first webinar will be on the subject of Virtual Committee Meetings Arrangements.

5.10.4 IALA website

Input document PAP40-5.10.4.1 refers.

PAP noted the statistics of downloads of IALA documents from the website, with the VTS Manual currently being the most popular. The limited amount of hard copies that had been sold in recent years was also noted.

5.10.5 Committee reports

Thomas Southall updated Members on the ongoing review of committee reports in order to ensure they remain concise and fit for purpose. The PAP requested that the Secretariat consider delaying any large scale changes to documents until the 2022-2026 work period. Members were invited to provide any suggestions for change to the reports to Thomas Southall.

Action item(s):

*That **Members** provide any comments or suggestions on the review of committee reports to Thomas Southall (tom.southall@iala-aism.org).*

5.10.6 Virtual committees

Thomas Southall invited Members to recall the agreed Virtual Committee Arrangements. In order to increase the efficiency and user experience the Secretariat have been working on tools for participants to utilise during the virtual committee season. These tools have taken the form of a dashboard (that includes a fileshare, calendar and bulletin board) and also a mail group (as the main means of communication to the participants of each committee). The PAP welcomed the dashboard as a comprehensive package for participants that will improve their situational awareness of committee work. The PAP considered whether the General Regulations may need to be updated to include matters such as the silent approval procedures for committees.

The remaining actions to prepare for the committees were then discussed which included the Chairs Pre-meeting, communication of the action plan to registered participants and arrangements for the virtual plenary sessions.

5.10.7 Technical documents catalogue

Input document PAP40-5.10.7.1 refers.

The new *Technical Documents Catalogue* was introduced to the Panel. PAP warmly welcomed the new publication and the Deputy Secretary-General congratulated Minsu Jeon on his hard work. PAP was asked to submit any errors that they find within the document to Minsu Jeon.

Action item(s):

*That the **Secretariat** forward the technical documents catalogue to all committees.*

*That **Members** submit any errors they find in the new Technical Documents Catalogue to Minsu Jeon (minsujeon@iala-aism.org).*

5.11 Other

5.11.1 IALA AtoN Questionnaire

Input document PAP40-5.11.1.1 refers.

The PAP noted that there had so far been twenty-four responses to the IALA questionnaire. For a useful analysis, a minimum of thirty responses is considered a good number by the Secretariat. As the questionnaire refers only to Aids to Navigation the PAP agreed it should be named *IALA AtoN Questionnaire*.

5.11.2 IALA VTS Questionnaire

It was reported to the PAP that work on the IALA VTS Questionnaire was currently on hold until it becomes clear on how to tackle technical difficulties, such as how to move from the current host to IALA servers.

5.11.3 IALA VTS Manual

Following the successful review of the VTS Manual by the coordination group in March, the draft document has been approved by Council 71 and was handed to the Editor and Secretariat. The design and publication of the document has been delayed due to the publishers operations being significantly interrupted by COVID-19. The Secretariat aim to publish the VTS Manual before VTS49.

5.11.4 IALA NAVGUIDE

PAP noted the ground rules for the development of the IALA NAVGUIDE, which includes following the structure of the Standards. The NAVGUIDE has also been slightly delayed by COVID-19, but it is anticipated that it will be released on time.

5.11.5 IALA VTS-ENAV Symposium

On behalf of the Symposium hosts, Maarten Berrevoets, provided PAP with a brief update. The Symposium has now been postponed to 19 - 23 April 2021, and new contracts with the venue, hotels, dinner venue have been agreed and the website updated. The hosts will continue to monitor the situation regarding COVID-19. He then requested that the Secretariat determine the availability of presenters to come to Rotterdam in

April. PAP discussed a variety of contingency plans should the COVID-19 situation deteriorate. Maarten Berrevoets agreed to provide an update on the Symposium to both VTS and ENAV opening plenary.

Action item(s):

*That the **Secretariat** determine the availability of IALA Symposium presenters to come to Rotterdam in April 2021.*

*That **Maarten Berrevoets** provides an update on the Symposium to both VTS and ENAV committees opening plenary.*

6. STRATEGY AND POLICY

6.1 Strategic goals and policies

6.1.1 Drivers and trends

Input document PAP40-6.1.1.1 refers.

The Deputy Secretary-General provided a background to the input document *Current Drivers and Trends ed1.2 (Rev.1)*. It was recalled that C71 had asked for the reference to sustainability and environmental issues to be expanded upon which was subsequently addressed by amendments made by the Secretariat. The PAP were requested to review the drivers and trends and provide comment on any areas that may require addressing.

The PAP then considered IALA's work to date on sustainability and the environment. Members agreed that more work in this area may be undertaken by the committees with initiatives such as a new Model Course. PAP recognised that a key part of IALA's role is the protection of the marine environment and all committees should contemplate what recommendations and guidance could be produced.

Action item(s):

*That **Members** review the document *Current Drivers and Trends ed1.2 (Rev.1)* (PAP40-6.1.1.1) and provide comment to the Secretariat on any areas that may require addressing.*

*That the **Committee Chairs** should encourage their committee participants to consider what new tasks could be included in the 2022-2026 Work Programme relating to sustainability and the environment.*

6.1.2 IALA Position on the Development of AtoN Services

PAP Members were requested to review the *IALA Position on the Development of AtoN Services* and provide comment on any areas that may require addressing.

Action item(s):

That **Members** review the *IALA Position on the Development of AtoN Services* and provide comment on any areas that may require addressing.

6.1.3 Cross-committee Coordination

Input document PAP40-6.1.3.1 refers.

Minsu Jeon introduced the input document which visualizes liaison notes between committees and therefore cross-committee work. The PAP endorsed this approach, and the Secretariat will finalize the document for PAP41, which will then be submitted to the committees. It was agreed that MASS and sustainability and the environment should be included in the document.

Action item(s):

*The **Secretariat** updates the cross committee document (PAP40-6.1.3.1) and forwards to all committees.*

6.1.4 Revision of IALA Standards

Input document PAP40-6.1.4.1 refers.

Minsu Jeon introduced the input document. IALA Standards form a framework that aims to harmonize Marine Aids to Navigation worldwide. IALA standards cover technology and services and are non-mandatory in nature. The creation of Standards edition 1.0 in 2018 was a significant step forward for IALA and for its strategic vision and goal of harmonising Marine Aids to Navigation worldwide by 2026.

Since their initial approval, there have been some updates on the topic areas and associated recommendations. PAP noted the proposed plan of work included in the input paper for the update of Standards for their anticipated approval at the General Assembly of 2022 in accordance with Article 7.3 of the Constitution. [Following on from earlier discussion in the meeting on sustainability, PAP considered the proposal of an additional standard on Sustainability but decided this was not appropriate.](#)

PAP noted that due to the heavy workload of the committees, there may be a delay in beginning the revisions. The Secretariat will liaise with LAP regarding any legal considerations that may need to be taken into account with the transition to an IGO.

[Action item\(s\):](#)

*That the **Secretariat** forwards the relevant standards to all committees for review.*

*That the **Secretariat** summarizes any proposed updates to the Standards from the committees and sends them to PAP 41 for further discussion.*

[6.1.5 IALAs involvement in MASS](#)

Input documents PAP40-6.1.5.1

Council 69 and 70 agreed that IALA should make preparations for the introduction of MASS. A paper from the Netherlands on the impact of MASS on VTS will be forwarded to all committees which includes a number of action points. Those action points were discussed by PAP and cover related areas such as shore infrastructure, cybersecurity, a guideline for MASS testbeds and sharing information of MASS developments. They are:

Action Point 1

To achieve the goal of standardisation and harmonisation, the IALA Technical Committees should be aware of the IMO definition of MASS and the corresponding levels and should take this into account by developing Guidelines and Recommendations.

Action point 2

Secretariat is invited to send this document to PAP 40, VTS 49, ENG 12, ENAV 26 and ARM 12 and establish an inter-committee task force under the supervision of PAP to structure and coordinate the discussion and work on MASS within IALA.

Action Point 3

The PAP, in support of Secretariat, invited to consider a scoping exercise, in relation to MASS, and its impact on IALA Guidelines and Recommendations.

Action Point 4

With the introduction of MASS, authorities should always be aware of cyber security risks. Therefore, special attention should be given to MASS when developing cyber security related Guidelines and Recommendations.

Action Point 5

The IALA VTS Committee should consider the need to develop guidance on MASS testbeds in VTS areas, similar to the IMO's interim guidelines for MASS trials.

Action Point 6

The IALA Secretariat is invited to explore ways of sharing information and enhance MASS cooperation both within IALA and with other international bodies.

PAP considers that it is too early to act on these action points at this time, but will continue to actively monitor MASS developments. VTS currently has a task item related to action point 5 and work is currently due to commence on this at VTS50. It was emphasized that MASS is an important topic for all committees, and ENAV will take a coordinating role in the forthcoming work.

It was noted that there is a planned workshop on MASS in Japan next year to take place in conjunction with ENAV27 in Tokyo. All chairs are invited to participate in the workshop steering group.

6.1.6 Document structure - inclusion of information papers

The ENG Chair raised a query to PAP regarding where to keep information, not intended for external consumption, but for use in informing committee tasks. Discussion concluded that these documents should be kept on the committee space on the fileshare with the possibility of utilizing the dashboard in the future. If the Secretariat deem any information useful to members, then the mechanism of a circular letter has been introduced earlier this year for such a purpose.

6.2 Challenges and Opportunities

6.2.1 COVID-19 response

At the ARM12 pre-meeting Dave Lewald suggested that it may be interesting to examine the experience gained by all stakeholders in AtoN in COVID-19. The PAP noted that the measures taken by governments to contain the spread of the disease, although deemed necessary, might have impacted a wide area of AtoN service provision, including VTS. The information and knowledge on this will be critical for all IALA members as policymakers, AtoN managers, and service providers look to understand changes in business plans, operations, contingency responses etc.

There will be an IALA webinar on the subject by Dave Lewald and possibly Sealite.

Action item(s):

*The **Secretariat** organize a webinar on COVID-19 responses by Marine Aids to Navigation authorities.*

6.3 The IGO Project

The Diplomatic Conference held in Kuala Lumpur, Malaysia from 25 to 28 February 2020 reached its objective. The Conference marked a very important step for IALA as the Convention for the future Organization under intergovernmental status was adopted. More than 239 persons from 62 States participated in the Conference or were observers. Delegates with credentials from 50 States signed the Final Act of the Conference adopting the text of the Convention and two resolutions: one resolution on languages of the Organization and one on the signing ceremony in Paris in November 2020.

The Convention includes robust arrangements for a smooth transition in the annex – Transitional arrangements. These arrangements will ensure that the activities of IALA's organs and its technical work in the area of Marine Aids to Navigation will continue uninterrupted and that its responsibilities towards the maritime community will be undiminished and maintained with the customary high level of commitment and expertise.

The development of a set of General Regulations, including Financial Regulations, is well advanced and the final draft is envisaged well before the first General Assembly of the new IGO. Meanwhile, the draft Headquarters Agreement needs to be finalized in cooperation with the Ministry of Foreign Affairs of the French Republic, but a very satisfactory draft is already on the table.

As regards to the position of our very important Industrial members, the Convention follows the approach of the Convention of other International Organizations, which designates companies involved in relevant business as Affiliate Members to ensure their inclusion as an important category of its membership. IALA's Industrial members will thus be Affiliate Members of IALA as an IGO and this will ensure the continued, strong cohesion between Marine Aids to Navigation authorities and providers that has always been important for the work of IALA.

All present National members of IALA from States that will not immediately become Member States of the IGO shall, subject to their formal request, become Associate Members of the Organization for a duration of

up to ten years from the date of entry into force of the Convention, unless the General Assembly decides to extend that period.

The question of the languages of the new Organization was discussed intensively during all four meetings. While there was agreement on the working language, English, the compromise of having the six languages of the United Nations (Arabic, Chinese, English, French, Russian and Spanish) was only achieved on the last day of the meeting of the Committee of the Whole in Kuala Lumpur.

As agreed in Resolution one of the Diplomatic Conference the General Assembly shall be conducted in all official languages and input papers, in the form of draft resolutions and the report, shall be translated into the official languages.

The Conference determined that the working language of the Organization will be English, and that the work and meetings of the Council, Committees and subsidiary bodies will be conducted in the working language.

It is the aspiration to make the outputs of the Organization, all the Guidance documents, available in the official languages with the help of the relevant Members over time.

The second Resolution is about the Signing of the Convention in Paris in November. The Secretary-General is still negotiating with the Ministry for Europe and Foreign Affairs in Paris about this event. At this stage it is not decided how this will be carried out, but a decision will be taken soon.

The main output documents from the Conference – The Final Act, the two resolutions, the Convention and the reports – are available on the IALA web site <https://www.iala-aism.org/meeting-docs/diplomatic-conference/>

7. ANY OTHER BUSINESS

Proposed amendment to the Terms of Reference and Rules of Procedure within the Basic Documents regarding Intersessional Groups

With the recent COVID-19 outbreak it has been necessary for cancelled committees to maintain the momentum of their work via ‘correspondence groups’. This has not been the only driver for expanding the use of this method of working. For some time, it has been clear that IALA members may benefit from the utilisation of established video conferencing technology in order to increase the capacity of each committee and consequently to achieve more inter-sessionally.

The benefits of correspondence groups are well accepted. This has been demonstrated most successfully with the recent revision of the IMO Guidelines for VTS. This was a significant task that was completed efficiently with 19 inter-sessional correspondence group meetings consisting of some 44 participants from 24 organizations in addition to normal Committee meetings.

There has also been demand from members to enhance the use of technology when geographical distance is a challenge for participation. The Secretariat is acutely aware of the calls from members from areas such as Asia and Australia to have technological solutions put in place for inter-sessional work where face-to-face participation in short meetings may otherwise be prohibited by cost, lost time or the impact upon the environment due to travelling. However, it is important to highlight that this technological solution is not intended to be a substitute for face-to-face participation in core IALA activities such as committees.

Therefore, it has been deemed by the Secretariat as beneficial to promote the use of intersessional groups by developing clear guidance for their operation which may be incorporated into the Terms of Reference and Rules of Procedure – Committees section included within the IALA Basic Documents.

The PAP agreed that the Secretariat would continue to draft the amendments, send to PAP out of session for agreement before forwarding them to LAP and then Council⁷² for approval.

Action item(s):

That the **Secretariat** draft a proposed amendment to the Terms of Reference and Rules of Procedure within the Basic Documents regarding Intersessional Groups and forward to PAP members out of session.

8. REPORT OF THE MEETING

The final report was approved by correspondence.

9. DATE AND VENUE OF NEXT MEETING

The next meeting is planned for 3–5 February 2021 to be held at Headquarters in Saint-Germain-en-Laye. IALA will continue to monitor the situation and update Members of any changes to the schedule.

10. CLOSING OF THE MEETING

Omar Frits Eriksson thanked all participants for their very valuable contribution to the meeting and wished all well in the upcoming virtual committee season.

11. LIST OF ANNEXES TO THE REPORT

- 1 Agenda
A copy of the agenda is at ANNEX A.
- 2 Participants
A list of participants is at ANNEX E.
- 3 Input papers
A list of input papers is at ANNEX C.
- 4 Output papers
A list of output papers is at ANNEX D.
- 5 Action items
A list of action items is at ANNEX E.



40th Meeting of the IALA Policy Advisory Panel (PAP40)

The 40th meeting of the Policy Advisory Panel will be held on 31 August, 2 – 3 September 2020, virtually. The timings of the meeting are:

Monday	31/08/2020	1000 - 1200 UTC
Wednesday	02/09/2020	1000 - 1200 UTC
Thursday	03/09/2020	1000 - 1200 UTC

The objectives of the panel are to:

- Formulate advice for the IALA Council and Secretariat;
- Coordinate the work of the IALA committees to achieve the goals of the Strategic Vision; and
- Monitor work programmes for the committees for the period 2018-2022.

Provisional Agenda

Day One

1	Introduction		
	1.1	Welcome by Secretary-General and Deputy Secretary-General	FZ,OFE
	1.2	Approval of agenda	OFE Approve
	1.3	Apologies and introductions	OFE Note
2	Review of action items from last meeting		
	2.1	Review of action items from PAP39	TS Note
3	Review of input papers		
	3.1	Review of input papers to PAP40	TS Note
4	Reports from other bodies		
	4.1	IALA	
	4.1.1	IALA Council	MJ Note
	4.2	IMO	
	4.2.1	IMO ITU Experts Group	MJ Note
	4.3	IHO	
	4.3.1	Technical coordination meeting	MJ Note
	4.4	ITU	
	4.4.1	VDES & VDES R-Mode	OFE Discuss
	4.5	Other (PIANC, CIRM, IMPA, & IHMA etc.)	MJ Note
	4.5.1	e-Navigation Underway	FZ Note
	4.5.2	3GPP	MJ Note

5 Coordination

5.1 Progress reports

5.1.1	ENAV	HN	Note
5.1.2	VTs	MS	Note
5.1.3	ENG	SM	Note
5.1.4	ARM	PD	Note
5.1.5	IMC	MN	Note
5.1.6	LAP	CS	Note
5.1.7	WWA	OFE	Note

Day Two

5.2 S1010 AtoN Planning and Requirements

5.2.1	IMSAS	MJ	Discuss
-------	-------	----	---------

5.3 S1020 AtoN Design and Delivery

5.4 S1030 Radionavigation Services

5.4.1	Future of DGNSS	MJ	Discuss
5.4.2	SBAS	JA	Discuss

5.5 S1040 Vessel Traffic Services

5.6 S1050 Training and Certification

5.6.1	Distance learning	OFE	Note
-------	-------------------	-----	------

5.7 S1060 Digital Communication Technologies

5.8 S1070 Information Services

5.8.1	IALA S-200 development	MJ	Note
5.8.2	Maritime Resource Name (MRN)	MJ	Discuss
5.8.3	e-Navigation Operational Service Description	HN	Discuss

5.9 Committee work programme and structure

5.9.1	Committee Work Programme 2018-2022 and 2022-2026	MJ	Review
5.9.2	Future committee structure	MJ	Discuss

5.10 Operations/Administration

5.10.1	IALA Dictionary	MJ	Discuss
5.10.2	File Sharing Arrangements	TS	Discuss
5.10.3	Communications	AG	Discuss
5.10.4	IALA website	MJ	Discuss
5.10.5	Committee reports	TS	Discuss
5.10.6	Virtual committees	TS	Discuss
5.10.7	Technical documents catalogue 2020	MJ	Note

5.11 Other

5.11.1	IALA AtoN Questionnaire	MJ	Discuss
5.11.2	IALA VTS Questionnaire	MS	Discuss
5.11.3	IALA VTS Manual	MS	Note
5.11.4	IALA NAVGUIDE	MJ	Note
5.11.5	IALA VTS-ENAV Symposium	MB	Discuss

6 Strategy and Policy

6.1 Strategic goals and policies

6.1.1	Drivers and trends	OFE	Discuss
6.1.2	IALA Position on the Development of AtoN Services	OFE	Discuss
6.1.3	Cross-committee coordination	All	Discuss
6.1.4	Revision of IALA Standards	MJ	Discuss
6.1.5	IALA's involvement in MASS	MJ	Discuss

	6.1.6	Document structure - inclusion of information papers	SM	Discuss
	6.2	Challenges and opportunities		
	6.2.1	COVID-19 response	MJ	Discuss
	6.3	The IGO project	FZ	Note
7	Any other business			
8	Report of the meeting			
9	Date and venue of next meeting			
10	Closing of meeting			

ANNEX E LIST OF PARTICIPANTS

ARM Committee	Chair	Phil Day phild@nlb.org.uk
	Vice-Chair	R. David Lewald robert.d.lewald@uscg.mil
ENAV Committee	Chair	NOGUCHI Hideki hideki.noguchi@gmail.com
	Vice-Chair	Jorge Arroyo Jorge.Arroyo@uscg.mil
ENG Committee	Chair	Simon Millyard simon.millyard@thls.org
	Vice-Chair	Michel Cousquer Michel.Cousquer@cerema.fr
VTs Committee	Chair	Monica Sundklev monica.sundklev@transportstyrelsen.se
	Vice-Chair	Dirk Eckhoff dirk.eckhoff@wsv.bund.de
LAP	Chair	Christina Schneider Christina.Schneider@wsv.bund.de
IMC		Malcolm Nicholson m.nicholson@sealite.com
IALA VTS-ENAV Symposium	Host	Maarten Berrevoets maarten.berrevoets@minienm.nl
Secretary-General		Francis Zachariae francis.zachariae@iala-aism.org
Deputy Secretary-General		Omar Frits Eriksson omar.eriksson@iala-aism.org
Technical Operations Manager		Minsu Jeon minsujeon@iala-aism.org
Communication Officer		Audrey Guinault audrey.guinault@iala-aism.org

ANNEX C

LIST OF INPUT PAPERS

Meeting	Agenda Item	Input Paper Number and Title	Source
PAP40-	1.2.1	Provisional Agenda rev.2	IALA Secretariat
PAP40-	2.1.1	Update on action items from PAP39	IALA Secretariat
PAP40-	3.0	Input paper template	IALA Secretariat
PAP40-	3.1.1	List of Input Papers	IALA Secretariat
PAP40-	4.1.1.1	Final report Council 71	Council 71
PAP40-	5.1.3.1	ENG Update	ENG Chair
PAP40-	5.1.4.1	Report of ARM11 (ARM11-14.1)	IALA Secretariat
PAP40-	5.2.1.1	Liaison Note to LAP PAP on IMSAS manual post plenary (ARM11-13.0.3)	ARM11
PAP40-	5.2.1.1.1	Revised IMO Circ.letter IMSAS Manual post plenary (ARM11-13.0.3.1)	ARM11
PAP40-	5.9.1.1	Committee Work Programme for 2018-2022	IALA Secretariat
PAP40-	5.9.1.2	Proposal for Committee WP	IALA Secretariat
PAP40-	5.9.1.2.1	Annex A Work Programme template	IALA Secretariat
PAP40-	5.9.1.2.2	Annex B Task plan template	IALA Secretariat
PAP40-	5.10.4.1	IALA Website Download Number of the Documents	IALA Secretariat
PAP40-	5.11.1.1	IALA Questionnaire	IALA Secretariat
PAP40-	6.1.1.1	Current Drivers and Trends ed1.2 (Rev.1)	Council 71
PAP40-	6.1.3.1	Inter-committee Work July 2020 (EOPAP-5.1.1)	IALA Secretariat
PAP40-	6.1.4.1	Revision of IALA Standards	IALA Secretariat
PAP40-	6.1.5.1	NL Paper on the Impact of MASS on VTS (C71-8.5.1)	Council 71
PAP40-	7.1	IEC62288=NavPresentation_(Ed3)_80_963e_CD(2020-05)	USCG

ANNEX D

LIST OF OUTPUT PAPERS

Meeting	Agenda Item	OUTPUT PAPERS
PAP40-	8.1	Report of PAP40

ANNEX E ACTION ITEMS

1. That **Committee Chairs** review their task plans and ensure that their task items directly relate to the Council approved Work Programme 2018-2022. 15
2. That **Committee Chairs** to request participants to submit proposals for task items to the first half 2021 committees for the 2022-2026 Work Programme. 15
3. That **Members** provide any comments or suggestions on the review of committee reports to Thomas Southall (tom.southall@iala-aism.org). 15
4. That **Members** submit any errors they find in the new Technical Documents Catalogue to Minsu Jeon (minsujeon@iala-aism.org). 16
5. That **Maarten Berrevoets** provides an update on the Symposium to both VTS and ENAV committees opening plenary. 17
6. That **Members** review the document Current Drivers and Trends ed1.2 (Rev.1) (PAP40-6.1.1.1) and provide comment to the Secretariat on any areas that may require addressing. 17
7. That the **Committee Chairs** should encourage their committee participants to consider what new tasks could be included in the 2022-2026 Work Programme relating to sustainability and the environment. 17
8. That the **Secretariat** together, with the committee vice-chairs, establish an intersessional correspondence group with the purpose of maintaining the currency of inter-related documents across committees. 8
9. That the **Secretariat**, in conjunction with the ENG Committee, update the DGNSS questionnaire to include a method of obtaining corrections (SBAS). 8
10. That the **Secretariat** adds the date of publication to all documents referred to in the Work Programme and confirms the consistent use of 'Marine Aids to Navigation' in the respective document titles. 8
11. That the **Secretariat** investigates and prepares a list of which browsers support the IALA website and provides feedback to PAP40. 9
12. That the **Secretariat** investigates and the appointment of an Editor to oversee the finalization of the next version of the NAVGUIDE. 9
13. The **Secretariat** to follow the work of committees on the portrayal topic and provide input to the next PAP for further discussion. 9
14. The **Secretariat** to find out IMO's revised intentions for the process of updating the IMSAS manual. 12
15. That the **Secretariat** forwards the agreed procedures on dictionary management to all committees. 15
16. That the **Secretariat** forward the technical documents catalogue to all committees. 16
17. That the **Secretariat** determine the availability of IALA Symposium presenters to come to Rotterdam in April 2021. 17
18. The **Secretariat** updates the cross committee document (PAP40-6.1.3.1) and forwards to all committees. 17
19. That the **Secretariat** forwards the relevant standards to all committees for review. 18
20. The **Secretariat** organize a webinar on COVID-19 responses by Marine Aids to Navigation authorities. 19



10, rue des Gaudines – 78100 Saint Germain en Laye, France
Tel. +33 (0) 1 34 51 70 01 – Fax +33 (0) 1 34 51 82 05 – contact@iala-aism.org
www.iala-aism.org

International Association of Marine Aids to Navigation and Lighthouse Authorities
Association Internationale de Signalisation Maritime