



IALA

SUCCESSFUL VOYAGES, SUSTAINABLE PLANET

ANNUAL REPORT 2022



International Association of Marine Aids
to Navigation and Lighthouse Authorities

ANNUAL REPORT 2022

SUCCESSFUL VOYAGES, SUSTAINABLE PLANET

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A MESSAGE FROM THE PRESIDENT AND THE SECRETARY-GENERAL



Youngshin KIM
PRESIDENT



Francis ZACHARIAE
SECRETARY-GENERAL

It was a pleasure to meet in Committees, at Council and elsewhere once again without the fear of Covid transmission.

Once again we were able to take advantage of on-line facilities for meetings although the global time differences makes it complicated and challenging for many members. In the future all meetings will have a hybrid possibility for members who are unable to travel.

We can happily report that our members' services have continued to be maintained to the highest standards in the face of the pandemic. This proves the resilience of the world's aids to navigation and related services using well-tried systems operated by competent and loyal teams supported by the law makers and, of course, industry.

With regard to the Convention on the International Organization for Marine Aids to Navigation, the year started with a signing ceremony at IALA HQ on 26 January, hosted by the French Minister for Europe and Foreign Affairs. It marked the end of the one-year signature period which opened in Paris the previous January.

States that have signed the Convention were invited to transmit their instruments of ratification, acceptance or approval to France, the depositary State. All Member States of the UN that have not signed during the signature period, may accede to the Convention, which will enter into force on the ninetieth day after the date of deposit of the thirtieth instrument of ratification, acceptance, approval, or accession. By the end of the year 17 ratifications, acceptances, approvals or accessions to the Convention had been deposited.

In 2022 the Council met in Copenhagen from 30 May to 3 June (Council 75) and in Rio de Janeiro from 12 to 16 December (Council 76).

Council 75 was the first face-to-face meeting since the outbreak of the Covid-19 pandemic in 2020 and all Councillors were in attendance with three participating remotely.

At each meeting Councillors were updated about progress within the Secretariat, particularly with the change of status and the transition period.

Councillors were also invited to report their own activities and this has now become a regular feature of Council meetings.

New Members were welcomed and the organization currently has 93 National Members, 78 Associate Members and 158 Industrial Members.

With regard to publications, a broad selection in the form of Guidelines and Recommendations were approved for issue and are to be found on the website: www.iala-aism.org

The Council noted reports received from the technical committees, the Industrial Members Committee, and on progress and future activities of the World-Wide Academy.

World Marine Aids to Navigation Day was celebrated in 2022 on 1 July in Bulgaria. At a prestigious event in Burgas on the Black Sea, the host was the Bulgarian Ports Infrastructure Company. The annual World Marine Aids to Navigation Day's mission is to improve the awareness and perception of the general public with respect to Marine Aids to Navigation including vessel traffic services and related topics.

Bulgaria is one of the leading States involved in the digitalization of port services as well as the implementation of regulatory and technical requirements. There is no doubt that the opportunity was taken to deliver an event of importance to the maritime community owing to the host's endeavours.

The Council also approved the Terms of Reference for the newly established World-Wide Academy Disaster Recovery Fund (WWA DRF) with the objective of assisting coastal States, who are struck by disaster, to re-establish and strengthen further their ability to ensure safety of navigation in their area of responsibility. The WWA DRF shall be independently funded by sponsorships.

In early 2022, contact was made with the National member of Ukraine, the State Hydrographic Service of Ukraine (SHSU), expressing IALA's sympathies with the SHSU staff, their families and the people of Ukraine. Membership of IALA by Ukraine commenced in 2004 and the SHSU have attended committees and the General Assembly ever since.

Homigot Lighthouse in the Republic of Korea was approved as the Heritage Lighthouse of the Year 2022. Cap Spartel in Morocco was selected as the lighthouse for the 2023 award.

September saw us facilitate two events relative to PAWSA and MASS, the first by online means and distance learning. The second with a virtual and face-to-face meetings at HQ and success was reported in each well-subscribed event.

We provided facilities for the Maritime Connectivity Platform (MCP) seminar on Identity Management and Security on 24 September at IALA HQ between meetings of VTS53 and ENAV30.

In November IALA was represented at Navigating To 2050 - A safe and sustainable maritime future hosted by Irish Lights in Dublin. This event was hugely successful in bringing together key national and international leaders to debate a safe and sustainable route to 2050. Key issues concerned were: decarbonisation, alternative fuel types, autonomous systems and ships, digitalisation of navigation and related technology as well as offshore renewable energy development, and maritime spatial planning.

The World-Wide Academy conducted a mission in the Seychelles islands in September and this is depicted in a short film to illustrate the activities of our team with regard to environmental protection and the safety of navigation in these waters.

At the end of November, the Academy, together with the Australian Maritime Safety Authority, the Port of Melbourne and Ports Victoria, ran a successful training course on the IALA Risk Management tools. This course was conducted by way of distance learning from 17 October to 11 November 2022 using the virtual IALA Campus of

ten tutor-led hours. In-person training followed from 21 to 25 of November 2022 at the Port Education Centre in Melbourne.

In March, coinciding with the French Presidency of the European Union, IALA was able to address a diplomatic gathering in Paris and emphasis was placed on our history, present day activities and plans for the future, particularly with regard to the change of status.

We continue to cement the most cordial relations with IMO, IHO, ITU and WMO and other highly respected bodies in the international maritime community. These well-established partnerships are vital as we work to ensure the safety of life at sea and the protection of the environment.

This year we were also delighted to welcome delegations to HQ from the Republic of Cameroon, Denmark, France, Japan, Liberia, Singapore, and the Republic of Guinea.

Contributors to the e-Bulletin are to be thanked for their excellent efforts and our world-wide membership is invited to submit articles for consideration in the months ahead.

We are now ready for the twentieth IALA Conference to be held in Rio de Janeiro from 27 May to 3 June 2023 with the theme Marine Aids to Navigation - Innovation for a Sustainable Future.

As we completed this report it was apparent that many Industrial members had been involved in the planning and preparation, not to say the drafting of papers, to make this a memorable event ably hosted by the Navy of Brazil. At the same time we pay tribute to the excellent support provided by the Secretariat to the Association's business over the year.

Again, we sign off with a statement registering the facts that IALA remains in highly capable hands, is properly financed, well managed and is highly regarded among the international maritime community.

UNDERSTANDING IALA

Established in 1957, IALA is a not-for-profit, international technical association. It brings together marine aids to navigation authorities, manufacturers, consultants, and scientific and training institutes from across the globe to exchange and compare experiences and knowledge for the improvement and harmonization of maritime navigation services worldwide.

The work of IALA in creating technical guidance documentation, and in training and capacity building, is focused towards achieving the goals of a Strategic Vision by 2026.

IALA encourages its members to work together in a common effort to harmonize Marine Aids to Navigation (AtoN) worldwide and to ensure that the movements of vessels are safe, expeditious and cost effective while protecting the environment.

Taking into account the needs of mariners, developments in technology and the requirements and constraints of marine aids to navigation authorities, a number of technical committees have been established bringing together experts from around the world. Their work ensures that mariners have AtoN which will meet their needs both now and in the future. Thus IALA contributes to a reduction of marine accidents, increased safety of life and property at sea, as well as the protection of the marine environment.

CORE VALUE

IALA'S CORE VALUES ARE:



CREDIBLE

To be credible means being recognized, respected, trustworthy and reliable.

- We provide a worldwide and high-quality service.
- We drive the development of state-of-the-art technologies within Marine Aids to Navigation.
- We engage the world's leading experts to develop our products.



DYNAMIC

To be dynamic means actively and continuously striving to improve.

- We respond quickly to the needs of the maritime community.
- We adopt flexible working arrangements to stay agile.
- We encourage and stimulate innovation through awareness of global maritime developments.



RESULT-ORIENTED

To be result-oriented means to focus on outcomes rather than processes.

- We set clear objectives and goals with defined timelines.
- We create high-quality technical documents that are practical, usable and easily accessible.
- We produce outcomes that are non-political and non-commercial.



CONNECTING

To be connecting means to reach out to individuals and organizations in order to share knowledge and experience and to provide support to achieve common goals.

- We welcome individuals and organizations from around the world.
- We bring together experts and facilitate exchange of knowledge and experience.
- We assist the maritime community in meeting its international obligations.

STRATEGIC VISION FOR 2018-2026

SECRETARIAT

The Strategic Vision for 2026 sets out two Goals and eight Strategies to facilitate their achievement by 2026. The two Goals are, respectively, that Marine Aids to Navigation are developed and harmonized through international cooperation and the provision of standards (Goal 1), and that all coastal States have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise (Goal 2).



SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY 	Through continued improvement of standards, IALA promotes safe and efficient shipping and the economic growth it supports.	10 REDUCED INEQUALITIES 	IALA World-Wide Academy focuses on those coastal states with the greatest need, in order to assist them to fulfil their SOLAS obligations.
2 ZERO HUNGER 	Through continued improvement of standards, IALA promotes safe and efficient shipping which contributes to sustainable logistics.	11 SUSTAINABLE CITIES AND COMMUNITIES 	IALA provides guidance on sustainable and environmentally responsible activities within its remit.
3 GOOD HEALTH AND WELL-BEING 	Healthy oceans are critical. IALA continues to develop standards that contribute to clean and abundant coastlines and oceans.	12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	IALA continues to promote sustainability and an ethos of environmental management in the design, operation and disposal of Marine Aids to Navigation.
4 QUALITY EDUCATION 	IALA World-Wide Academy sets the global standards for training and capacity building in the provision of Marine Aids to Navigation.	13 CLIMATE ACTION 	IALA continues to encourage the use of renewable energy.
5 GENDER EQUALITY 	IALA supports gender equality and empowers women in the maritime sector.	14 LIFE BELOW WATER 	IALA sets global standards for the provision of Marine Aids to Navigation, contributing to the protection of the marine environment.
6 CLEAN WATER AND SANITATION 	IALA recommends sustainable and environmentally friendly management principles in relation to all Marine Aids to Navigation activities.	15 LIFE ON LAND 	Life on land is supported by marine transport. IALA continues to develop global standards for Marine Aids to Navigation provision.
7 AFFORDABLE AND CLEAN ENERGY 	IALA continues to encourage the use of renewable energy.	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	IALA aims to bring together Governments, services and organizations to strive for the improvement and harmonization of Marine Aids to Navigation.
8 DECENT WORK AND ECONOMIC GROWTH 	IALA promotes capacity building and career advancement through the World-Wide Academy and its missions and training programs.	17 PARTNERSHIPS FOR THE GOALS 	IALA works closely with the IMO, IHO and others under the UN 'Delivering As One' approach to improve maritime safety and to further the protection of the marine environment.
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	IALA promotes innovation and recognizes the importance of the involvement of the Industrial members within its committee structure.		



The Secretariat is based in Saint-Germain-en-Laye, near Paris, France and consists of 12 permanent staff members. Additionally, several experts and consultants assist the Secretariat in various areas.



The Secretary-General acts as the legal representative of IALA and oversees the operations of the Association.



- Technical Operations,
 - Administration and Finance,
 - World-Wide Academy.
- A part time student was recruited in October for the IT department



The Secretariat



Kevin Gregory



Lorraine Mbong



Tom Southall



Gerardine Delanoye



Minsu Jeon



Audrey Guimault



Isabelle Bracq



Omar Eriksson



Christine Philip



Jaime Alvarez



Julie Navarre



Francis Zachariae

MEETINGS

MEMBERSHIP



COMMITTEES	PARTICIPANTS	COUNTRIES
ARM 15	80	25
ARM 16	91	22
ENAV 29	97	29
ENAV 30	102	21
ENG 15	112	30
ENG16	114	23
VTS 52	155	33
VTS 53	119	28
WORKSHOPS	PARTICIPANTS	COUNTRIES
Joint IHO/IALA Workshop S-100/S-200 Product Specification Development & Portrayal	77	17

CATEGORIES

IALA comprises four membership categories:

①

National membership:

National Authorities legally responsible for the provision, maintenance or operation of Marine Aids to Navigation in their countries.

②

Associate membership:

Services, organizations, scientific agencies concerned with Marine Aids to Navigation or related matters.

③

Industrial membership:

Manufacturers, distributors and organizations providing Marine Aids to Navigation equipment for sale and Marine Aids to Navigation services or technical advice under contract.

④

Honorary membership:

Conferred for life to individuals who are considered by the Council to have made an important contribution to the work of IALA.



STATUS



In 2022, IALA was joined by thirty-three new members: three National members, ten Associate members and twenty Industrial members.

National membership was joined by: The Gambia Maritime Administration, the Slovenian Maritime Administration, and the Liberian Maritime Authority., bringing the number up to 93 in 2022.

The following organisations joined as Associate members: Korea Maritime Transportation Safety Authority in the Republic of Korea; Instituto Marítimo Portuario in Cabo Verde; Comisión Administradora del Río de la Plata in Argentina; National Technology Center for Ports Waterways and Coasts in India; AWS Services, Companhia Docas Do Rio de Janeiro, and Albatroz Apoio Marítimo Portuário Ltda in Brazil; and Italian Maritime Academy Technologies S.r.l in Italy. Kasi Malaysia and in Abu Dhabi Marine Operations and Services Company LLC have also changed their categories from Industrial to Associate membership, considering that this was more appropriate to their activities.

IALA has also welcomed the following Industrial members in 2022: Jiangsu Koropp Maritime Technology Co., Ltd in the People's

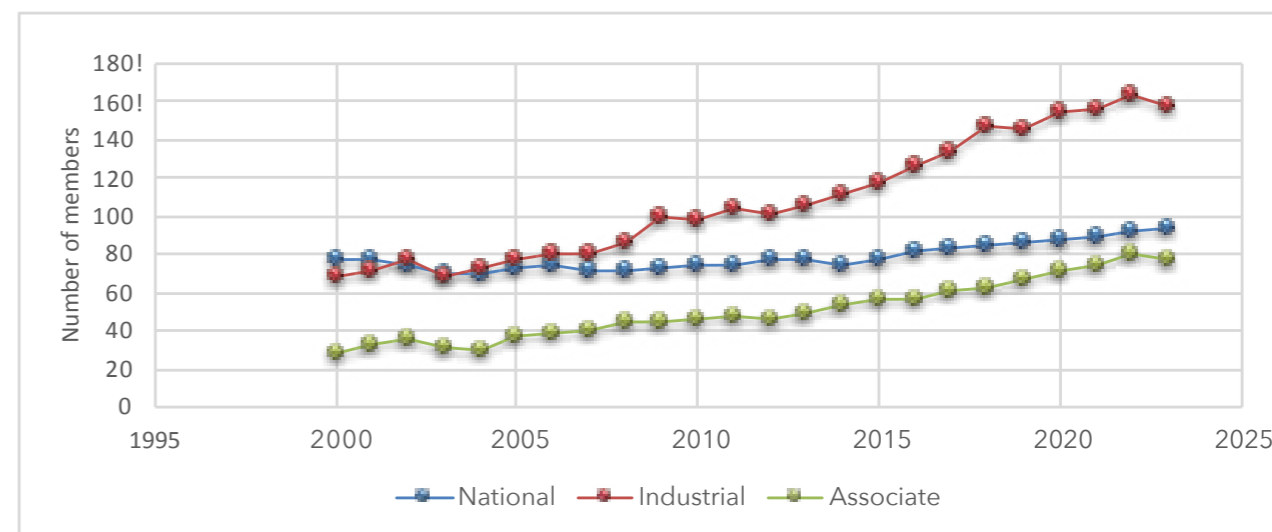
Republic of China; BC Cuerpo Construction Corporation in the Philippines; Port Control Ltd in Russia; IBK-Fibertec GmbH in Germany; Maxsea Naval SL and Pinturas Luarca, S.L in Spain; Oynetec (Pty) Ltd in South Africa; DS Servicios Integrales Limitada in Chile; Nsonesoft Co.Ltd, Daehan Engineering Co., Ltd, and Quantum Solutions in the Republic of Korea; Malsa Equipos Industriales SA de CV in Mexico; General Dynamics Mission Systems Italy-GMDS in Italy; Chittagong Dry Dock Limited and Dockyard and Engineering Works Limited in Bangladesh; Plovput d.o.o - Production, design, maintenance and development in Croatia; Marine Services Co.; Ltd in Saudi Arabia; Oceans Works Pacific Limited in Papua New Guinea; and Umi San Servicios de Apoio a Navegação e Engenharia Ltda and Salvage Certificação, Projetos e Serviços Offshore in Brazil.

The membership growth was nevertheless impacted by some resignations noted along the year and a few terminations proceeded by the IALA Council in December for non-payment of contributions after the Secretariat had exhausted all efforts to collect the debts. On 31st December 2022, IALA membership consists of 337 in the above three categories, which is 5% more compared to 2021. In addition, IALA also counts 42 Honorary members.

EVOLUTION

The figure below shows the membership evolution in the last twenty years and the map gives an overview of the IALA National membership around the world in 2022.

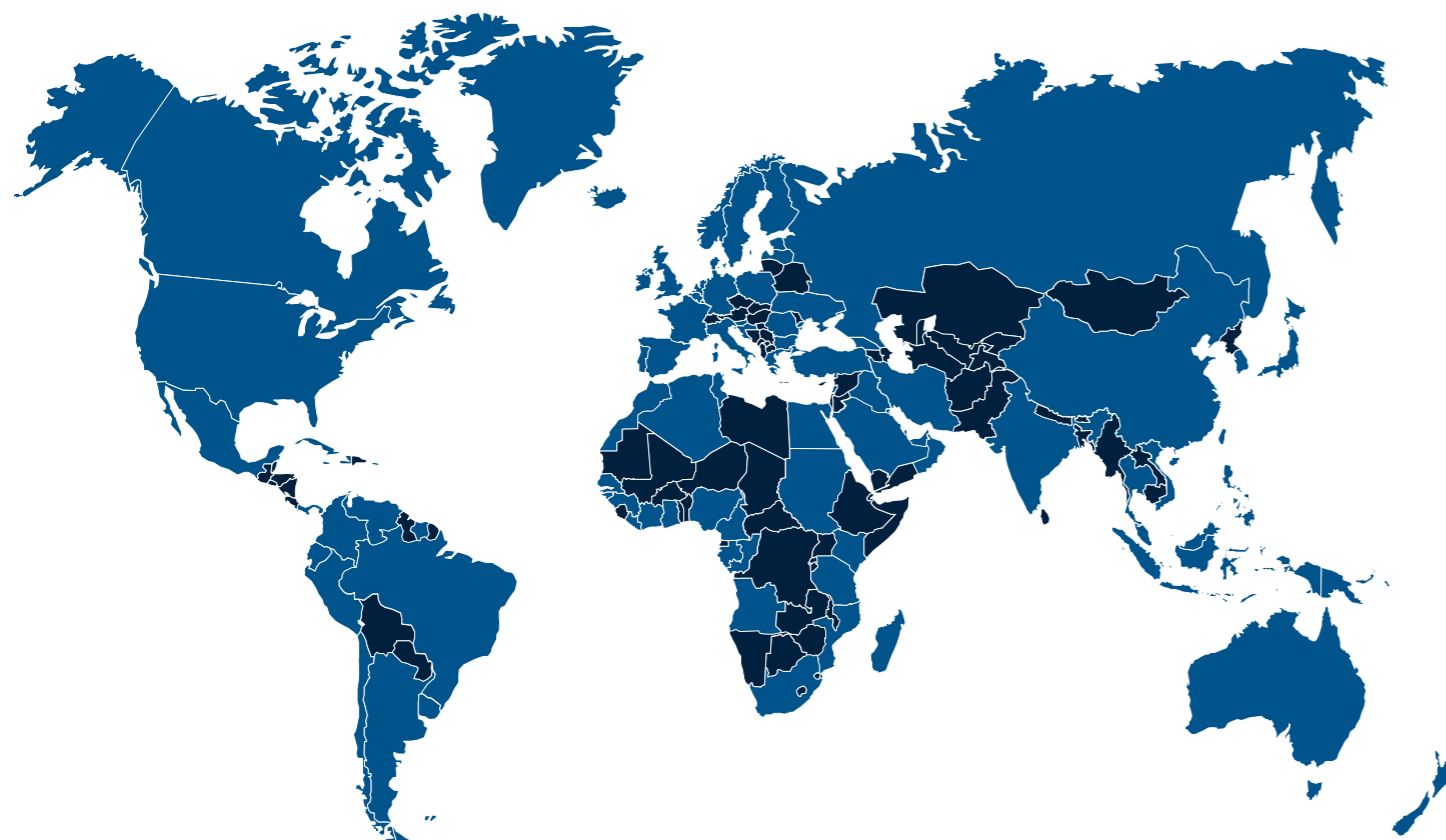
MEMBERS EVOLUTION (ALL CATEGORIES) SINCE 2000



IALA NATIONAL MEMBER IN 2022

GOVERNANCE

IALA NATIONAL MEMBERS IN THE WORLD IN 2022



■ Countries in which IALA has a National member
■ Countries in which IALA has no National member

93 National members

164 Industriel members

80 Associate members



GENERAL ASSEMBLY

The General Assembly brings together members from all the IALA membership categories every four years and usually convenes in conjunction with the four-yearly IALA Conference.

National members attending the General Assembly are entitled to:

- determine the IALA strategy
- elect members to the Council
- decide upon changes to the IALA Constitution
- decide on IALA Standards (from 2018 onwards)

Associate and Industrial members are entitled to attend the General Assembly and take part in the discussions, but they do not have the right to vote.



COUNCIL

IALA is headed by a President elected by the Council.

The Council comprises 21 elected and three non-elected members. It approves the strategic direction, the annual budget, and the rates for members' annual contributions.

The three non-elected members are a National member of the Host Nation (France), the National member which hosted the previous IALA Conference and the National member which will host the next Conference.

FINANCE AND AUDIT COMMITTEE (FAC)

The Finance and Audit Committee (FAC) consists of five members who are elected from amongst the members of the IALA Council. The FAC elects its Chair, who acts as IALA Treasurer.

The role of the FAC is to provide, twice a year to the Council, recommendations related to financial matters including the execution of the budget; investments; audit observations and the status of membership contributions.

POLICY ADVISORY PANEL (PAP)

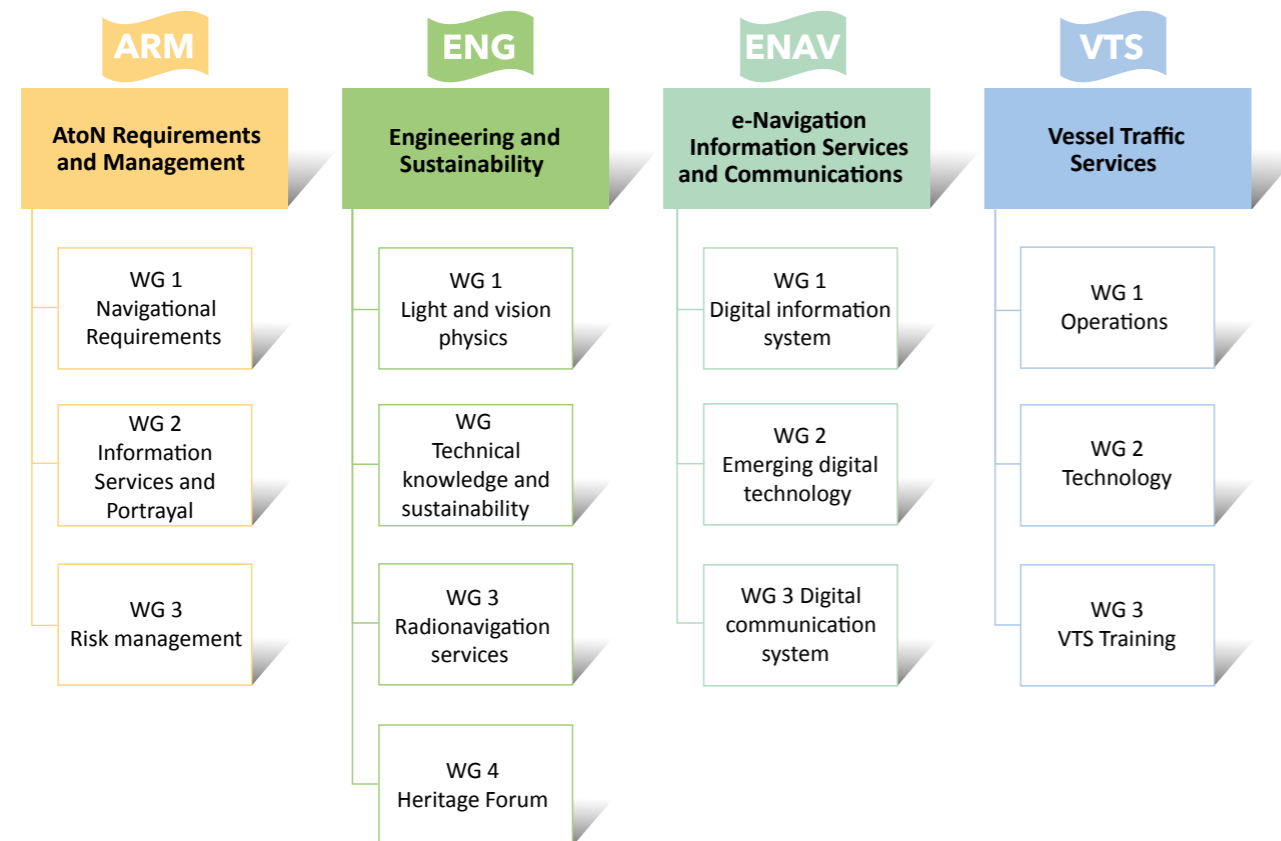
The Deputy Secretary-General chairs meetings of the Policy Advisory Panel (PAP), which advises the Council on strategy and policy matters related to the technical activities. The PAP convenes twice a year and its members include the four Committee Chairs and Vice Chairs, the Chair of the Legal Advisory Panel, the Dean of the World-Wide Academy and a member of the Industrial Members Committee.

LEGAL ADVISORY PANEL (LAP)

The Legal Advisory Panel (LAP) is an advisory body to the Council on legal aspects of all technical activities. The LAP also took intensive part in the work on the planned change of IALA status, mainly through extraordinary meetings. During the period under review the LAP was chaired by Ms Christina Schneider of Germany. The LAP meets normally twice a year.

COMMITTEES

Committees are the 'engine room' of IALA. They are organized in 4 work domains as follows:



INDUSTRIAL MEMBERS COMMITTEE (IMC)

The Industrial members form an integral part of the IALA family and the ARM, ENG, VTS and ENAV Committees is where they jointly provide valuable technical knowledge and first-hand experience to IALA. The Industrial Members Committee (IMC), which consists of six elected companies Industrial members of IALA, is the organ that takes care of the Industrial members' interests within IALA. The IMC is an observer at IALA Council and at meetings of the Policy Advisory Panel.

The IMC for the year 2022 comprised the following:

Americas:	Tideland Signal Corporation (USA)
Asia/Oceania:	Zeni Lite Buoy Co Ltd. (Japan)
Europe/Africa:	Sabik (Finland)
Brazil (next Conference host):	Arbo Plasticos Rotomoldados Ltda
Member at large:	Australian Maritime Systems (Australia)
Member at large:	Sealite Pty Ltd. (Australia)

The IMC met twice virtually in the year 2022. They mostly discussed the preparations for the Conference 2023. The new code of conduct and updated Terms of Reference were finalized in the view of being presented at the General Assembly for Industrial Members to be held on 1 June 2023 in Rio de Janeiro, Brazil. They regularly reviewed the details of the exhibition and IMC evening preparations for the Conference..



THE TRANSITION TO AN INTERGOVERNMENTAL ORGANIZATION

THE TRANSFORMATION OF IALA FROM A NON-GOVERNMENTAL ORGANIZATION TO AN INTERGOVERNMENTAL ORGANIZATION IS JUST AROUND THE CORNER.

The first 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.

This ceremony marked the opening for signature of the Convention for a period of one year. All Member States of the United Nations, and in particular the other signatories of the Final Act of the Kuala Lumpur Conference, were invited to sign the Convention at the Protocol of the Ministry for Europe and Foreign Affairs.

A final signing ceremony was held at the last day of the signature period on 26 January 2022 in the IALA HQ in St. Germain en Laye. During the year 50 States have signed the Convention and by the end of December 2022, 15 States had ratified, accepted or acceded to the Convention.

States that have signed the Convention are then invited to transmit the instruments of ratification, acceptance or approval to France, the depositary State. All Member States of the United Nations that have not signed during the signature period, may accede to the Convention, which will enter into force on the ninetieth day after the date of deposit of the thirtieth instrument of ratification, acceptance, approval or accession.

The certified versions of the Convention in Arabic, Chinese, English, French, Russian and Spanish can be found on the IALA web site <https://www.iala-aism.org/the-igo-project/>

The Secretariat has started the detailed preparation for the transition period between the start of the new organization and the termination of the present association which is regulated in the annex to the convention: The Transitional Arrangements. The present Constitution and the Transitional Arrangements regulates the transfer of assets and liabilities, the termination of the present IALA, the governance of the new organization and the transfer of members from the present IALA to the new intergovernmental organization.

The first General Assembly of the new IGO be convened within six months after the entry into force of the Convention.



FINANCIAL RESULTS

BY CHRISTINE PHILIP, FINANCE AND ADMINISTRATION MANAGER

The 2022 financial year was marked by an upturn in activity in the second half of the year after two years of health crisis due to the Covid-19 pandemic.

The Organization is primarily funded by assessed contributions from its members, within the framework of a Budget approved by the Council. IALA has attracted new members in 2022 (+5%) and closed its financial year with a net consolidated surplus of €262,196. This result is appropriated in full to the Capital and Reserves with a view to anticipating expenses related to the change of status.

The 2022 Financial Statements have been prepared by the French chartered accountant KPMG and audited by RSM Paris.

FINANCIAL REVIEW	2022	2021
VOLUME DATA		
NUMBER OF MEMBERS (UNITS)	337	320
National	93	90
Industrial	164	156
Associate	80	74
ANNUAL RATES (€)		
National	18 200	17 160
Industrial	6 350	6 350
Associate	3 070	3 070



INCOME STATEMENT (IN €)	2022	2021
Operating income	3 766 248	3 311 214
Operating expense	3 534 837	2 938 716
OPERATING RESULT	231 411	372 498
Financial income	21 974	8 302
Financial expense	7 184	2 712
FINANCIAL RESULT	14 790	5 590
Exceptional income	31 589	31 589
Exceptional expense	12 843	7 785
Exceptional result	18 746	23 804
CORPORATE TAX ON PROFIT	2 751	1 106
Total income	3 819 811	3 351 105
Total expense	3 557 615	2 950 318
RESULT FOR THE FINANCIAL YEAR	262 196	400 787

BALANCE SHEET (AT DECEMBER 31)	2022	2021
ASSETS		
Intangible assets	4 119	3 822
Property, plant & equipment	1 543 479	1 678 209
Financial assets	36 610	38 727
Receivables	221 730	53 090
Available funds & prepaid expenses	4 596 037	3 996 873
TOTAL NET ASSETS	6 401 975	5 770 721
LIABILITIES		
Not-for-profit funds	3 724 171	3 504 974
Reserve for associative project (Conference)	300 000	150 000
Result for the financial year	262 196	400 787
Dedicated funds	429 010	240 868
Provisions for risks and charges	770 909	627 734
Debts	915 689	846 358
TOTAL LIABILITIES	6 401 975	5 770 721

WORLD-WIDE ACADEMY FINANCIAL SITUATION (EUROS)

The World-Wide Academy

Launched in 2012, the World-Wide Academy is managing a separate budget based on an annual work program endorsed by the Academy Board which meets twice a year.

The Academy is independently funded by generous sponsorships received from external donors. Unused funds are kept as a financial reserve in the respective dedicated fund and carried forward to the following year. In 2022, activities started to return to pre-pandemic level.

REVENUES	2022	2021
IFAN	695 000	0
France	20 000	20 000
Republic of Korea	110 807	112 174
Malaysia	100 000	100 000
IMO	69 815	16 829
Trinity House	25 000	57 058
Japan Aids to Navigation Association (JANA)	22 210	0
Australian Maritime Safety Authority (AMSA)	6 899	0
Revenues from course registration fees	61 031	58 000
Sponsors for Disaster Recovery Fund	32 400	0
Financial income	2	0
TOTAL	1 143 166	364 061

EXPENSES	2022	2021
Education & training	334 579	150 713
Capacity building	132 089	87 330
Research & development	2 365	4 694
Other Academy related	130 479	126 063
Permanent staff's costs	355 513	375 738
TOTAL	955 025	744 538

INCOME AGAINST EXPENDITURE	2022	2021
	188 141	(380 477)
<i>Reserve from previous year</i>	<i>240 869</i>	<i>621 346</i>
<i>Available fund carried forward to next year</i>	<i>429 010</i>	<i>240 869</i>

THE IALA YEAR



JANUARY

SIGNING CEREMONY

27 States signed the Convention on the International Organization for Marine Aids to Navigation at a signing ceremony which took place at the IALA headquarters in Saint Germain-en-Laye, near Paris, on 26 January 2022.

The ceremony was hosted by the Ministry for Europe and Foreign Affairs representing the Depositary, the government of France.

This ceremony marked the end of the one-year signature period which started on 27 January

2021 in Paris where France, as Depositary State, represented by Mrs. Annick Girardin, Minister of the sea, was the first State to sign the Convention.

All Member States of the United Nations, and in particular the other signatories of the Final Act of the 2020 Kuala Lumpur Conference, were invited to sign the Convention at the signing ceremony.

More information about the IGO process can be found on IALA website <https://www.iala-aism.org/the-igo-project/>



FEBRUARY

PAP44

The 44th session of PAP was held virtually for the first time over three sessions on 8 - 10 February 2022.

Key outcomes included:

- The draft recommendation and guideline on MASS currently being developed by ENAV should be jointly developed cross-committee with each committee authoring different topics within them, with ENAV being the committee ultimately responsible for its development. This does not affect the committees' individual tasks currently underway.
- The PAP can convene ad-hoc sessions to consider any issues but were also encouraged to arrange inter committee meetings to coordinate between them.
- Only recommendations are normative or informative. Guidelines can never be normative as they are a broad description of possible ways you may fulfil the provisions of a recommendation.
- The PAP encouraged an abstract on sustainability should be submitted to be delivered at the IALA Conference and a future workshop or seminar should be planned in the future.
- The PAP also proposed that ENG committee consider a workshop on sustainability in the provision of AtoN.



- That the Heritage Lighthouse of the Year Award should remain non-competitive and celebratory in nature in order to promote awareness of lighthouse heritage.

- There will be an inter-committee task group working on maritime services, that will consider many issues surrounding this topic, such as:

- Merging MS 1, 2 and 3 (VTS)
- Develop a new MS 17 on AtoN (ARM)
- Develop a new MS 18 on PNT (ENG)
- Develop an IALA guideline on MS (ARM)
- To highlight to IMO the inconsistencies that have become apparent in the period since the MSC.1/Circ.1610 Circular was first approved.
- That the ENAV Committee develop a proposal for a workshop on digital maritime radiocommunication and submit it to Council for consideration.

The PAP was also updated on many items including:

- IMO activity
- IALA / IHO Technical coordination meeting
- The progress of the review of R1001 IALA Maritime Buoyage System
- The introduction of the new IMO resolution A.1158(32) Guidelines on Vessel Traffic Services

MARCH

ENAV29

The 29th meeting of the ENAV Committee was held virtually from 14 March to 1 April 2022; chaired by Hideki Noguchi and vice-chaired by Jorge Arroyo. The Secretary for the meeting was Jaime Alvarez. There were 97 registered participants, 3 for the first time, from 29 countries and 4 sister organisations. This was the 7th meeting for the 2018-2022 Work Programme and the Committee considered 46 input papers and produced 7 output papers.



ENG15

The 13th meeting of the ENG Committee (ENG13) was held virtually from 22 March to 19 April 2021.

The session was attended by 129 registered participants from 30 countries. 30 participants



LAP 23

The 23rd session of the Legal Advisory Panel was held by videoconference on 29-30 March 2022, with Christina Schneider as Chair, Henning Osnes Teigene as Vice-chair and Audrey Guinault as Secretary. The LAP noted the reports from Council 74, PAP 44 and the last committee sessions. The LAP was informed about the changes to the standards following PAP44. The LAP reviewed the standards and made some small amendments for the PAP to consider. The LAP was briefed on the change of status progress and particularly on the way ahead, following the successful signing ceremony in January 2022 with 51 signatures. The transition period plan, the new General Regulations, Headquarters agreement and staff rules were presented to the panel. The LAP also reviewed the draft MBS following the changes made by the PAP and the ARM committee and suggested some editorial changes. The LAP considered the amendments made to the Basic Documents regarding the Terms of Reference for the Committees and made further changes. The new edition of the Basic Document will be submitted to Council 75 for approval. The rest of the meeting was routine business including the review of the Risk Registers for IALA and the World-Wide Academy.



APRIL

VTS 52

The 52nd session of the VTS Committee was held from 30 March 2022 - 13 April 2022 virtually with Monica Sundklev as Chair and Dirk Eckhoff as Vice-chair. The Secretary for the meeting was Thomas Southall. 155 participants from 30 countries, three Sister organisations participated in VTS52. 18 participants attended for the first time. The VTS Committee considered 73 input papers and produced 38 output papers, including working papers, from three Working Groups. The meeting was carried out in accordance with the updated Virtual Committee Arrangements online. Approximately 40 meetings were arranged.

PAP 45

The 45th session of PAP was held virtually on the 6 April 2022. The PAP finalized an IMO NCSR9 paper on maritime services and submitted the document to Council for approval.

MAY

PAP 46

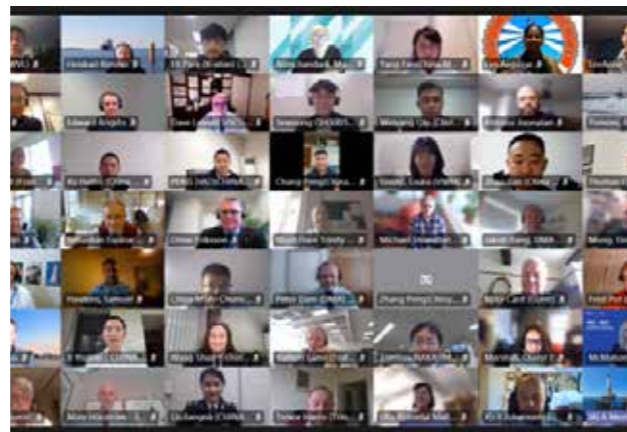
The 46th session of PAP was held in person between 02 - 04 May 2022.

Key outcomes included:

- The review and proposed update of the IALA Position on the Development of AtoN Services document
- The latest versions of the standards following the amendments proposed by LAP were agreed
- The proposal for a workshop on sustainability

ARM15

The 15th Session of the ARM Committee was held virtually from 11 to 25 March 2022 with Phil Day as Chair and Dave Lewald as Vice-Chair. The Secretary for the meeting was Thomas Southall. 78 Participants from 24 countries participated in ARM15. 8 participants attended for the first time. The Committee continued the work for the 2018 - 2023 work period. Working in three working groups, the Committee considered 48 input papers and produced 26 output and working documents. The meeting was carried out in accordance with the Virtual Committee Arrangements online. Approximately 44 meetings were arranged.



in the provision of AtoN will be submitted to Council

- The proposal for a workshop on digital maritime radiocommunication will be submitted to Council
- The future dates for the committees and PAP were agreed
- The new Committee Working Arrangements as agreed at PAP43 were reviewed and reaffirmed as how the chairs' wish to conduct their committees

JUNE

Council75

The 75th session of the IALA Council was successfully held at the Radisson Royal Collection Hotel in Copenhagen, Denmark from 30 May to 3 June 2022. This was the first face to face meeting of the Council since the outbreak of the Covid19 pandemic in 2020. All councilors were in attendance, including three who attended remotely. The Council was updated about the planning of the change of status transition period, which is the period between the entry into force of the Convention and the first General Assembly of the new Organization. The Council approved the revised budget for 2022 and noted the sound financial situation of the Association. The Council also approved changes to the Basic Documents. Reports were given on the technical committees, the Industrial Members Committee, the planning

JULY

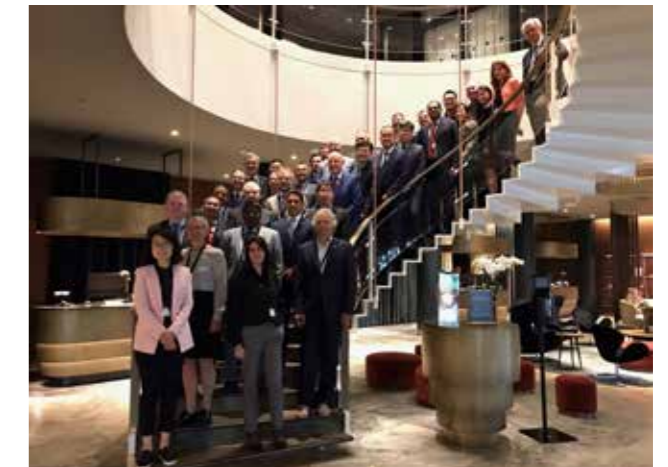
World Marine Aids to Navigation Day

The principal objective of this day is to promote greater awareness of IALA and its work by bringing to the attention of the wider public the role of marine aids to navigation and the significance of IALA's technical work in enhancing the safety of navigation and protection of the environment worldwide.

After being postponed for 2 years due to pandemic related restrictions, the Bulgarian Ports Infrastructure Company organised the main event for the WAtON Day 2022 in Burgas on 1 July 2022.



of the 20th Conference, and the progress and future actions of the World-Wide Academy and the World Marine Aids to Navigation Day to be celebrated 1 July in Bulgaria. The Council approved the Homigot Lighthouse from the Republic of Korea as the Heritage Lighthouse of the Year 2022 together with some changes to the future selection process



Member organisations around the world were encouraged to hold parallel events and to post photographs of marine aids to navigation on their social media sites with others published on a dedicated space on the IALA website. Here examples can be seen at: <https://www.iala-aism.org/news-events/news/>



SEPTEMBER

WORKSHOP ON S-100 and S-200

The joint IALA/IHO workshop on S-100/200 development and portrayal was held between the 5 and 9 September 2022 at the Norwegian Coastal Administration in Ålesund, Norway.

The workshop was very well attended with 78 participants from 17 countries



ENAV 30

The 30th meeting of the ENAV Committee was held from 26 September to 7 October 2022; chaired by Hideki Noguchi and vice-chaired by Jorge Arroyo. The Secretary for the meeting was Jaime Alvarez. There were 102 registered participants, 3 for the first time, from 24 countries and 4 organisations. This was the 8th meeting for the 2018-2023 Work Programme and the Committee considered 50 input papers and produced 19 output papers.



PAP 47

The 47th session of PAP was held in person between 13 - 15 September 2022.

Key outcomes included:

- The review of entries in the IALA Dictionary.
- The latest versions of the standards.
- The future dates for the committees, PAP and other IALA events were agreed.
- A draft input to IMO regarding IALAs activities regarding MASS.



VTS53

The 53rd session of the VTS Committee was held from 16 - 28 September 2022 with Monica Sundklev as Chair and Dirk Eckhoff as Vice-chair. The Secretary for the meeting was Thomas Southall. 119 participants from 29 countries, three Sister organisations participated in VTS53. 32 participants attended for the first time. The VTS Committee considered 53 input papers and produced 45 output papers, including working papers, from three Working Groups. The meeting was carried out in accordance with the updated Committee Arrangements.

OCTOBER

ENG16



The 14th meeting of the ENG Committee (ENG14) was held virtually from 4 October to 2 November 2021.

The session was attended by 114 registered participants from 30 countries. 13 participants attended for the first time.

Working in four working groups, the Committee considered 66 inputs and produced 8 output documents.

ARM16

The 28th meeting of the ENAV Committee was held virtually from 11 to 29 October 2021; chaired by Hideki Noguchi and vice-chaired by Jorge Arroyo. The Secretary for the meeting was Jaime Alvarez.

There were 122 registered participants, 6 for the first time, from 32 countries and 4 organisations and 1 observer.

This was the 6th meeting for the 2018-2022 Work Programme and the Committee

considered 38 input papers and produced 6 output papers.



NOVEMBER

PAP 48

The 48th session of PAP was held virtually on 14 November 2022.

Key outcomes included:

- The latest versions of the standards were agreed.

LAP 24

The 24th session of the Legal Advisory Panel was held at IALA Headquarters and by video conference on 8-9 November 2022, with Christina Schneider as Chair, Henning Osnes Teigene as Vice-chair and Audrey Guinault as Secretary. The LAP noted the reports from Council 75, PAP 45&46 and the last committee sessions. The LAP was informed about the developments in the S-200 domain and the MASS task force. The LAP was briefed on the change of status progress and the preparations for the General Assembly to be held in 2023. The LAP agreed on a new general disclaimer for the

- An input to NCSR10 on Maritime Services was finalized.

- Amendments to the Basic Documents regarding the conduct of meetings was finalized.

- Disclaimer statements for the IALA website and documents were also agreed.

IALA website and a disclaimer for publications. The LAP considered the amendments made to the Basic Documents and the terms of reference for the IALA Disaster Recovery Fund. There were 2 presentations made: the first one showed the legal implications of a collision case and the second one the legal implications for a bilateral VTS during the building of a tunnel between two countries.

The rest of the meeting was routine business including the review of the Risk Registers for IALA and the World-Wide Academy.

DECEMBER

Council76

The 74th session of the IALA Council was held by video conference from 13 to 17 December 2021. The Council approved two recommendations, twelve guidelines and three model courses. The Council noted the financial reports and approved the 2022 budget. The Council agreed on the Drivers and Trend document and to gather the Council Strategy Group before C75 for further work. The Council approved the revised Committee

work programme for 2018-2023. The Council approved that the Secretariat updates the VTS documents with the revised IMO Resolution A.1158(32) on Guidelines for Vessel Traffic Services. The Secretariat has already started the editorial work and will share the updates with the members. Reports were given on the Digital at Sea Asia-Pacific Conference, the IMC survey results on the planning of the 20th Conference, and the progress and future actions of the World-Wide Academy.



MAIN RESULTS



HERITAGE LIGHTHOUSE OF THE YEAR

The council 75 approved Homigot Lighthouse, the Republic of Korea, as the Heritage Lighthouse of the Year 2022.



NEW PUBLICATIONS

NEW AND REVISED RECOMMENDATIONS:

- R1023 Ed1.0 Maritime Resource Names (MRN)
- R0204 Ed3.0 Marine signal lights - determination and calculation of effective intensity
- R0141 Ed5.0 Training and certification of Marine Aids to Navigation personnel
- R0119 Ed4.2 Establishment of a VTS
- R1001 Ed2.0 Maritime Buoyage Systems
- R1024 Ed1.0 Cyber security for the IALA domain
- R0203 Ed2.0 Definition of marine signal lights terms and measurement
- R0125 Ed4.0 VTS portrayal
- R0128 Ed5.0 VTS systems and equipment

NEW AND REVISED GUIDELINES:

- G1018 Ed4.0 Risk management,
- G1123 Ed2.0 on the use of the IALA Waterway risk assessment programme or IWRAP
- G1124 Ed2.0 Ports and waterways safety assessment (PAWSA MK II)
- G1058 Ed3.0 The use of simulation as a tool for waterway design and AtoN planning
- G1135 Ed3.0 Determination and calculation of effective intensity
- G1127 Ed2.0 Systems and services for high accuracy positioning and ranging
- G1129 Ed2.0 on the retransmission of SBAS corrections using MF-radio beacon and AIS
- G1147 Ed1.0 The use of enhanced radar positioning systems
- G1168 Ed1.0 Quality control of third-party AtoN service providers
- G1169 Ed1.0 Training and certification of marine Aids to Navigation personnel
- G1170 Ed1.0 Solar modules for a marine environment
- G1150 Ed3.0 Establishing planning and implementing a VTS

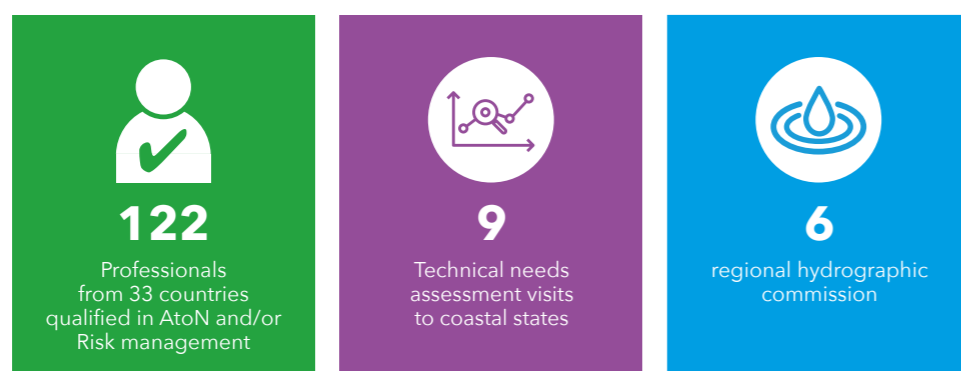
- G1171 Ed1.0 Human factors and ergonomics in VTS
- G1105 Ed2.0 Shore-side portrayal ensuring harmonization with e-Navigation related information.
- G1159 Ed2.0 Ship reporting from Shore-based perspective.
- G1138 Ed2.0 Use of simplified IALA risk assessment method (SIRA).
- G1172 Ed1.0 Marking of bridges and other structures over navigable waters.
- G1173 Ed1.0 Marine AtoN awareness and training for mariners.
- G1174 Ed1.0 Radar reflectors on marine aids to navigation.
- G1175 Ed1.0 AtoN equipment and structures exposed to extreme environmental conditions.
- G1130 Ed2.0 Technical aspects of information exchange between VTS and allied or other services.
- G1111 Ed2.0 Establishing functional and performance requirements for VTS systems and equipment.
- G1111-1 Ed1.0 Producing requirements for the core VTS system.
- G1111-2 Ed1.0 Producing requirements for voice communication.
- G1111-3 Ed1.0 Producing requirements for radars.
- G1111-4 Ed1.0 Producing requirements for AIS.
- G1111-5 Ed1.0 Producing requirements for environment monitoring sensors.
- G1111-6 Ed1.0 Producing requirements for electro-optical systems.
- G1111-7 Ed1.0 Producing requirements for radio detection finders.
- G1111-8 Ed1.0 Producing requirements for long range sensors.
- G1111-9 Ed1.0 Framework for acceptance of VTS systems.
- G1176 Ed1.0 How to promote safety culture in VTS.
- G1177 Ed1.0 Portrayal of VTS information.
- C0103-1 Ed3.0 VTS operator training.
- C0103-3 Ed3.0 VTS on-the-job training.
- G1157 Ed2.0 Web service based S-100 data exchange.
- G1107 Ed3.0 Planning and reporting of testbeds in the maritime domain.
- G1117 Ed3.0 VHF data exchange (VDES) overview.
- G1178 Ed1.0 An introduction to artificial intelligence from an IALA perspective.
- G1179 Ed1.0 An introduction to The Internet of Things from an IALA perspective.

REVOKED PUBLICATIONS

- G1097 Ed1.0 Technical Features and Technology Relevant for Simulation of AtoN
- G1139 Ed3.0 Technical specification of VHF data exchange system (VDES).
- R0120 Ed2.1 Vessel Traffic Services in inland waters.
- R1014 Ed1.1 Portrayal of VTS Information and Data.

WORLD-WIDE ACADEMY

2022 AT A GLANCE



- Qualified 122 professionals from 33 countries within AtoN management, risk management and procurement processes.
- Conducted 9 technical needs assessment and review visits to coastal States in need of assistance
- Attended 6 regional hydrographic commission meetings raising awareness of SOLAS obligations and the benefits of implementing the IALA standards.



ONBOARDING ALL COASTAL STATES

The IALA World-Wide Academy focuses on facilitating the effective implementation of IALA standards, recommendations, guidelines and model courses by coastal States through education, training and capacity building thereby underpinning the second strategic goal of IALA.

The Academy aims to ensure that all coastal States can fulfil the obligations related to Marine Aids to Navigation placed upon them in SOLAS Chapter V and that all coastal States can claim conformance with the relevant IALA standards.

To achieve these goals, the Academy undertakes a wide range of activities based on three simple principles:

1 ENLIGHTEN raise the awareness of high-level decision makers of their international obligations relating to safety of navigation

2 EDUCATE provide a suite of relevant education and training opportunities for as many as possible

3 ENGAGE pursue long-term capacity building activities with coastal States and provide advice on how overcome challenges

In support of the United Nations Delivering as One approach, the Academy cooperates with and coordinates its activities with other international organizations, underpinning the United Nations Sustainable Development Goals.

Throughout the year as the impacts of the Covid pandemic on travel have receded, the Academy has adapted its delivery style into a hybrid of face-to-face and online interaction. This has resulted in the further development of digital tools to support the hybrid approach.



ENLIGHTENING – RAISING THE AWARENESS OF HIGH-LEVEL DECISION MAKERS

The Academy has remained active in the promotion of the SOLAS obligations related to both AtoN and VTS and the benefits of implementing the IALA standards by attending several international and regional cooperative and coordinating meetings, including six regional hydrographic commission meetings all over the world.

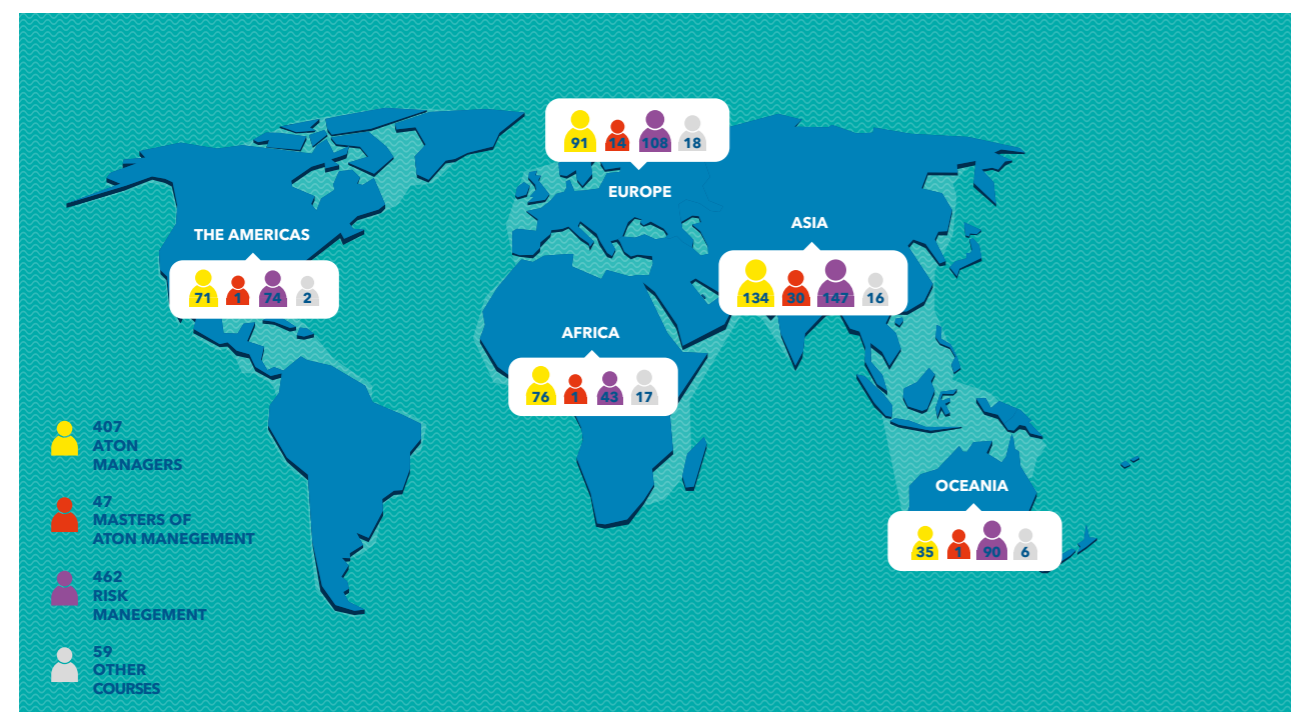
The programme of webinars has continued with the Academy contributing significantly to multilingual webinars introducing new IALA recommendations and guidelines as well as new and IMO guidelines.

Contact has remained strong with sister organisations, particularly those supporting the “UN Delivering as One” approach, and during the annual IMO Technical Cooperation committee meeting, several meetings were held with various divisions of the IMO. This included regional capacity building coordinators, the Women in Maritime initiative, and the IMO Resource Mobilization team.

EDUCATING – PROVIDING TRAINING OPPORTUNITY TO ALL

IALA has seen a welcome restart to face-to-face training by the Academy and its associated Accredited Training Organizations (ATO's), following the Covid pandemic. The year has also resulted in the development of online training provision and has been an opportunity to learn from the online student experience, optimising future blended course provision.

The newly refreshed AtoN Manager course continued online in several cycles through the Academy's learning platform. The Academy also maintained close contact with the global network of ATO's and assisted with delivery of the AtoN Manager course for 12 students from the Pacific Community by supporting the Pacific Community (SPC) as the ATO. AtoN Manager courses were also delivered by ATOs with Academy support in the UK (Trinity House), France and Morocco resulting overall in 34 new fully certified AtoN Managers. Further assistance to ATOs for delivery of the AtoN Manager course is planned for 2023, including in France, United Kingdom, Morocco, Colombia, Suriname, and India.



The redesigned modular Risk Management course programme successfully delivered several cycles of online courses including an introduction to the IALA Risk Management Toolbox, and specific courses on the use of SIRA, PAWSA and IWRAP.

The Academy delivered a face-to-face Risk Management course at the Port of Melbourne in December 2022. The course was attended by 20 students from Australian and southern Pacific Island nations.

Several of the Risk Management course lectures have now been translated and delivered in French, and the IALA Spanish support team continues to be a driving force behind various initiatives addressing the needs of Spanish speaking countries. It is expected that delivery of a Spanish version of the AtoN Manager course will take place through co-operation with Escuela Naval de Cadetes Almirante Padilla (ENAP) in Colombia in 2023.

A training facilitation visit to the Ghana Maritime Authority (GMA) and the Regional Maritime University (RMU) took place in 2022. The aim of the visit was to seek agreement in principle to the establishment of an AtoN Manager course with the RMU acting as an accredited training organization. The visit identified strong support within the GMA to facilitate the provision of an accredited training organization.

The Master of AtoN Management course is currently being refreshed and the next delivery is planned in early February 2023 at Trinity House, UK.

A training workshop was held with MENAS in Bahrain to review and advise on their preparations for the delivery of AtoN Technician training. The workshop consisted of a discussion on the implementation of the MENAS Training Management System (TMS), the delivery and review of lectures by MENAS team and consideration of future training delivery options.

A trial of a new procurement course was successfully undertaken in April and July respectively. The course presents the principles of best procurement practice relevant to AtoN management and it is intended to deliver further courses in the second part of 2023.

The Academy continued to develop its relationship with the Japanese (JANA) funded ASEAN Regional Training Centre for VTS in Kuala Lumpur, Malaysia and supported examining of VTS students.

The Academy has worked together with the IMO to plan and deliver VTS induction courses to government officials from developing countries in the red Sea Region. The Academy provides the bulk of the training effort on behalf of the IMO. The first introductory course took place at MARSATI in Lebanon with six Somali participants, and three more courses are scheduled for 2023 (Ethiopia, Yemen and Sudan).

The Academy continues to provide support to the IALA technical committees in order to maintain and further develop IALA model courses and associated guidance on training and certification.

ENGAGING - PURSUING LONG-TERM CAPACITY BUILDING

Technical cooperation visits were undertaken to Cape Verde, Saudi Arabia, Guatemala, Seychelles, Cambodia and Bangladesh, and a delegation from the Democratic Republic of Congo visited IALA HQ.

The Academy successfully conducted a review visit to Cambodia to follow up on a technical cooperation visit which took place in 2016. The initial findings of the 2022 visit highlight the fundamental need to maintain regular contact with coastal States and to establish a long term relationship with those responsible for providing AtoN services.

A visit was undertaken to the Republic of Seychelles (RoS), aimed at assessing the adequateness and effectiveness of the system for delivering Marine Aids to Navigation (AtoN) services in RoS waters. The system for delivering AtoN services in the waters of the RoS was found to be well considered for the geography and reasonably adequate and effective. Several improvement opportunities were identified, and Academy sponsored staff training was offered to ROS governmental staff.

Along with recommendations for improvement, a technical cooperation visit to the Republic of Cape Verde found that working towards being able to claim conformance with the relevant IALA Standards will enhance and support the maritime strategy of the RoCV.



The Kingdom of Saudi Arabia were found to have well managed and maintained AtoN services during a technical cooperation visit. Further cooperation and events were discussed and are expected to develop in the future.

A follow up to a technical cooperation visit in 2017 was made to Guatemala. This visit reviewed the progress on the 2017 recommendations, which again highlighted the importance of maintaining close and long term relationships with beneficiaries.

The Academy conducted a technical cooperation visit to the People's Republic of Bangladesh and Academy staff were heartened by the excellent AtoN provision services offered in the country.

During the Dean's visit to Fiji, assistance was offered to the Marine Safety Authority of Fiji (MSAF) in facilitating review of historic and operational AtoN structures to unlock potential funding from sponsors for repair and rehabilitation of these structures.

Representatives of the Democratic Republic of Congo (DRC) visited IALA Headquarters for technical cooperation discussion with the Academy. A subsequent technical visit to DRC was planned but unfortunately this had to be cancelled.

Close liaison was maintained with the numerous Academy beneficiaries but building long term relationships with each member of an ever-increasing group of coastal States is a challenge.

Following an outreach from the national member State Hydrographic Service of Ukraine (SHSU), several IALA members offered their assistance to help Ukraine recover from the damages to their AtoN service due to the war. The Academy established a series of dialogue meetings, aimed at identifying and prioritizing concrete needs and assist with the communication between SHSU and sponsors. In 2022, SABIK Marine, an industrial member from Finland, successfully sponsored and delivered their donation of 40 buoy lanterns to SHSU with more to come in 2023.

At its 75th session, the IALA Council decided to establish the "IALA Disaster Recovery Fund", and at its 76th session, the Council approved the terms of reference for the Disaster Recovery Fund and decided to make the Academy responsible for its management. A generous sponsorship was received from the Australian Maritime Safety Authority (AMSA), which made it possible for the Academy to progress this work. It is hoped that other national members will follow their example.





ANNUAL REPORT 2022

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