



Outcomes of the Council 73, June 2021

**Latest IALA
Recommendations
and Guidelines**



Minsu JEON, Technical Operations Manager



Revised Committee work programme 2018-2023

Work Programme for Committees 2018-2023

C73-10.1.2.1

Council 73 June 2021

IALA Standards, Recommendations and Guidelines

Work planned in 2018-2023
New task

Standard	Scope	Recommendation						Guideline					Remarks			
		Ref.	Title	Ed/Date	TC	Nor/Inf	Work/Status	Ref.	Title	Ed/Date	TC	Work/Status				
IALA1010 AtoN Planning and Service Requirements	1.1 Aids to Navigation planning	R1001	The IALA Maritime Buoyage System	1.0/June 2017	ARM	Nor	New	G1078	The Use of AtoN in the Design of Fairways	1.0/June 2011	ARM	Green	Revision and gap analysis of related documents			
								New	Develop guidance for navigators on the use of AtoN		ARM	Yellow				
								G1094	Daymarks for Aids to Navigation	2.0/June 2016	ENG					
								G1038	Methods and Ambient Light Levels for the Activation of AtoN Lights	3.0/Dec 2016	ENG					
				R0111 (E-111)	Port Traffic Signals	1.2/Dec 2019	ENG	Nor	Red	New	Guideline on Port Traffic Signals		ENG	Red		
				R0113 (O-113)	The Marking of Fixed Bridges and Other Structures over Navigable Waters	2.0/Dec 2011	ARM	Nor			No document					
				R0139 (O-139)	The Marking of Man-Made Offshore Structures	2.0/Dec 2013	ARM	Nor	Yellow	new	Guideline to meet the identified need of competent authorities, administrations, licence providing organizations and for general and/or detailed guidance on marking requirements of man-made offshore structures		ARM	Yellow		
				R1010	The Involvement of Maritime Authorities in Marine Spatial Planning	1.0/June 2017	ARM	Inf.		G1079	Establishing and Conducting User Consultancy by Aids to Navigation Authorities	1.0/Dec 2003	ARM			
		G1121	Navigational Safety Within Marine Spatial Planning							1.0/June 2017	ARM					
		G1033	Provision of Aids to Navigation for Different Classes of Vessels, Including High-Speed Craft							1.0/June 2017	ARM					
					No document					G1096	Anticipated User e-Navigation Requirements from Berth to Berth, for AtoN Authorities	1.0/May 2013	ARM			
					No document					new	Develop guidance on the provision of Marine AtoN for autonomous vehicle/vessel operations (Maritime Autonomous Surface Ship, MASS)		ARM, ENAV, ENG, VTS	Green		
					No document					G1107	Planning and Reporting of e-Navigation Testbeds	2.0/June 2016	ENAV			
								G1153	Template for the review of emerging technologies for possible use by IALA members	1.0/Dec 2019	ENAV	Done	C70 approved			
			No document					G1047	Cost Comparison Methodology of Buoy Technologies	1.0/Dec 2005	ARM					
			No document					G1090	The Use of Audible Signals	1.0/Dec 2012	ARM					
	1.2. Obligations and regulatory compliance		No document					G1054	Preparing for a Voluntary IMO Audit on Aids to Navigation Service Delivery	1.0/Nov 2006	ARM	Green				
			No document					G1005	Contracting Out Aids to Navigation Services	2.0/Dec 2005	ARM					

<https://www.iala-aism.org/committee-dashboards/resources-all-committees/>



Committee meetings and events dates in 2021

Event	TC	Title	Number of days	Date	Venue
Committee	PAP	PAP42	3	8-10 Sep 2021	Virtual
Committee	VTS	VTS 51	17	16 Sep – 7 Oct 2021	Virtual
Committee	ENAV	ENAV 28	15	11 - 29 Oct 2021	Virtual
Committee	ARM	ARM 14	11	15 – 29 Oct 2021	Virtual
Committee	LAP	LAP 22	2	26 – 27 Oct 2021	Virtual
Committee	ENG	ENG 14	22	4 Oct – 2 Nov 2021	Virtual
Workshop	ENG	Enhanced Radar Positioning System	4	TBD	Virtual
Workshop	ARM+3	Cross-Committee workshop on Cybersecurity in Marine AtoN Operations	5	1-5 Nov 2021*	Virtual



Workshop on ERPS in Sep 2021

WORKSHOP PROPOSAL

VISION	ENHANCED RADAR POSITIONING SYSTEM (ERPS) STANDARDIZATION
PROPOSAL	A workshop to identify the standards that need to be written, invite organizations to assist and to set an initial roadmap and timeline for standardization.
PURPOSE(S)	ERPS is a system that requires standardization for it to become useful and interoperable. The purpose of the workshop is to identify required standards and key organizations and to invite those organizations to include ERPS standards on their agendas.
GOAL(S)	<p>Output will include the following documents:</p> <ul style="list-style-type: none">• Draft outlines for each standard identified during the workshop.• Draft liaison notes (from IALA) to each organization that has been identified for each of the proposed standards, requesting the draft standards be added to their agendas.• Proposed road map and timeline.• Report. <p>All documents will become input to the following IALA ENG Committee meeting.</p>



IALA Heritage Lighthouse of the Year

<https://heritage.iala-aism.org/>

The screenshot shows the IALA Heritage Lighthouse of the Year website. At the top, there is a navigation menu with links for HERITAGE, IALA AWARDS, NOMINATE, HERITAGE LIGHTHOUSES, HERITAGE FORUM, DOCUMENTS, TOWARDS AN ISO, ABOUT IALA, and HOME. Below the navigation is a banner image of a lighthouse on a cliff with the text "HERITAGE & CULTURE".

Below the banner, there is a quote: "...the significance of historical lighthouses extends beyond the navigational and architectural value to include maritime culture and history, social history, environmental aspects ... there is great value in documenting, researching and interpreting these for the benefit and inspiration of future generations."

Below the quote, there is a section titled "Incheon Declaration" with a photo of several people at a podium.

Below the declaration, there is a grid of six nominated lighthouses, each with a photo and a caption:

- Alleppey Lighthouse**
INDIA - Alapuzha District, Kerala, India
Accolade: Nominated 2020
- Cabo de São Vicente Lighthouse**
PORTUGAL - Algarve, Portugal (6 km from Sagres town)
Accolade: Nominated 2020
- Gadeokdo Lighthouse**
KOREA - Gangseo-gu, Busan, Republic of Korea 34° 59' 22.9"N 128° 49' 44.3"E
Accolade: Nominated 2020
- Inubosaki Lighthouse**
JAPAN - Japan, Chiba prefecture, Choshi-shi
Accolade: Nominated 2020
- Izumihinomisaki Lighthouse**
JAPAN - Japan, Shimane prefecture, Imuro-shi
Accolade: Nominated 2020
- Kõpu Lighthouse**
ESTONIA - Estonia, Hiiumaa parish, Mägiste Village
Accolade: Nominated 2020

- The final three lighthouses were:
1. Lizard Lighthouse, England
 2. Palmido Lighthouse, Korea
 3. Cape Byron Lighthouse, Australia





New Recommendations and Guidelines_C73, June 2021

<https://www.iala-aism.org/council-73/>

New and revised recommendations:

- R0143 Provision of Virtual Aids to Navigation, Ed2.0, June 2021
- R1022 Provision of GNSS Augmentation Service for maritime applications, Ed1.0, June 2021
- R0110 Rhythmic characters on Aids to Navigation Ed5.0, June 2021

New and revised guidelines:

- G1081 Provision of Virtual Aids to Navigation, Ed.2.0, June 2021
- G1143 Unique Identifiers for Maritime Resources, Ed3.0, June 2021
- G1159 Ship Reporting from a shore-based perspective, Ed1.0, June 2021
- G1134 Surface colours used as visual signals on AtoN, Ed2.0, June 2021
- G1160 Competencies for planning and implementing a VTS, Ed1.0, June 2021
- G1141 Operational procedures for delivering VTS, Ed2.0, June 2021
- G1132 VTS Voice Communications and Phraseology, Ed 2.0, June 2021
- G1017 Assessment of prior learning exemption for VTS model courses, Ed2.0, June 2021
- G1161 Evaluation of Platforms for the Provision of Maritime Services in the Context of e-Navigation Ed1.0, June 2021

Documents for further committee consideration

- G1110 use of decision support tools for VTS personnel
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New and revised document

R0143 Provision of Virtual Aids to Navigation, Ed.2.0, June 2021

- Definition, purpose, and application of virtual AtoN including its risks, limitation, and benefit.
- Edition 2.0 Amendments throughout the document to reflect better knowledge of the National Authorities on Virtual AIS AtoN and to align with the revised Virtual Guidelines.



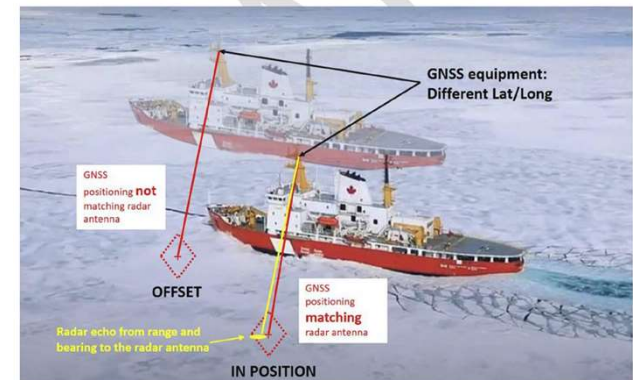
Emergency wreck mark



North cardinal mark

G1081 Provision of Virtual Aids to Navigation , Ed.2.0, June 2021

- Guidance on the use of virtual AtoN risks and benefits, criteria for application, notification process, display, application and delivery methods, and etc.
- Edition 2.0 Major amendments throughout the document with new sections and figures to reflect better knowledge of the technology, based on AIS AtoN testing in different countries.





New and revised document

G1143 Unique Identifiers for Maritime Resources, Ed2.0, June 2021

- Provides information on the requirements for MRN which is a unique identifier for maritime use, and its syntax, areas of application and other information required.
- Edition 3.0 addition of Annex C: Country code within IALA MRN Namespace

ANNEX C COUNTRY CODES WITHIN IALA MRN NAMESPACE

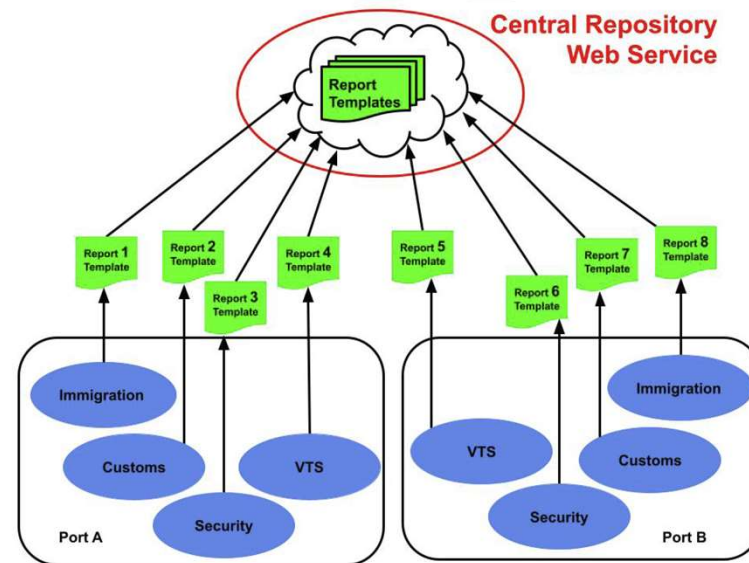
The country code follows the ISO 3166-1 alpha-2 list. Implementation of the country codes is at the discretion of the individual nations to coordinate.



New and revised document

G1159 Ship Reporting from a shore-based perspective, Ed1.0, June 2021

- The goal of this Guideline is to assist public authorities and other Shore-based Stakeholders, with the implementation of automated processes and procedures associated to ship reporting obligations, while complying with both national and regional/local reporting requirements as well as with the international requirements of the FAL Convention and relevant MSC and Assembly Resolutions on ship reporting.





New and revised document

R1022 Provision of GNSS Augmentation Service for maritime applications

- This document recommends the national members and other appropriate Authorities/Organisations providing GNSS augmentation services for maritime use to submit a formal declaration of their service as being adequate for maritime navigation for collation; and to update the information provided when any changes occur that modify the characteristics of the service and/or require mariners to update their equipment.

ANNEX B PRO-FORMA TEMPLATE

Date: Click or tap to enter a date. Service name: Click or tap here to enter text.

Brief Service Description: Click or tap here to enter text.

Service Provider aspects

Service provider Name: Click or tap here to enter text.

Service provider Address: Click or tap here to enter text.

Contact number: Click or tap here to enter text.

Contact e-mail: Click or tap here to enter text.

I/we confirm that the service offered is operational and available for use by maritime stakeholders (mariners, maritime authorities and other relevant parties).

I/we confirm that the service is intended to be provided in a continuous way until further notice

I/we confirm that any future changes in the GNSS augmentation service should not affect legacy users of the service.

I/we will confirm my/our commitment to update the information provided should any change occurs that modifies the characteristics of the service and/or requires mariners to update their equipment.

Information relating to the commitment of the service provider (to include the service area and level of availability, accuracy, continuity, integrity etc.) can be found at: Click or tap here to enter text.

Terms and conditions to access the service can be found at: Click or tap here to enter text.

The service complies with the following specifications and/or requirements: Click or tap here to



New and revised document

R0110 Rhythmic characters on Aids to Navigation, 5.0, June 2021

- National members and other appropriate Authorities providing Marine Aids to Navigation services comply with the following provisions in relation to the rhythmic characters presented by all-round lights, sector lights, leading lights and direction lights.
- Edition 5.0 Front page, Table 2 and Table 3. Added flash character of Mobile AtoN and updated document numbering.

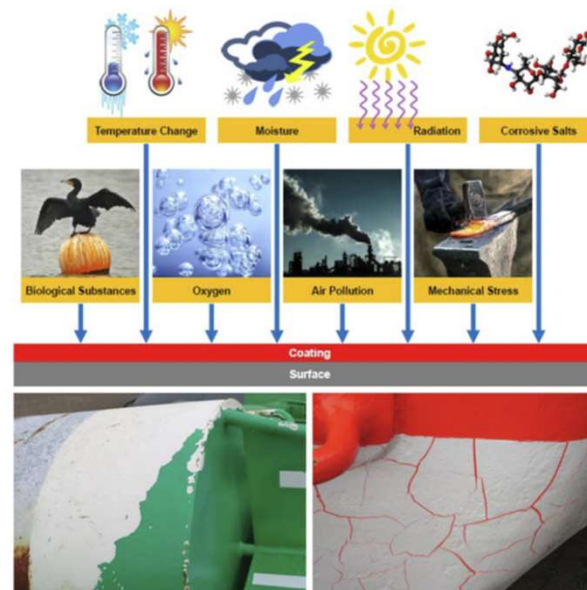
12	FLICKERING LIGHT	Flkr	A character containing flashes with a perceivable flicker. The flickering flash must have a frequency of 5 Hz and a duty cycle of 50 %.	Flkr(3)+Fl(2)Y	This class of light is particular to the use of Mobile AtoN, and is a distinctive character incorporating flicker and non-flicker flashes. The first three flashes comprises of a flicker flash with a flicker frequency of 5 Hz. This is followed by two non-flicker flashes. I = 1 s d1 = 0.7 s d2 = 0.5 s d3 = 3 s p = 10.4 s	This character is used solely for the Mobile AtoN application. The light colour is always yellow.
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New and revised document

G1134 Surface colours used as visual signals on AtoN, Ed2.0, June 2021

- The document covers the specification and measurement of the colours, considerations of particular colours, and degradation of pigments and etc.
- Edition 2.0 Document revised to incorporate current research and best practice





New and revised document

Guideline on competencies - planning and implementing VTS, Ed1.0, 2021

- The purpose of the guidance is to assist Contracting Governments, competent authorities for VTS and VTS authorities in establishing, planning and implementing a VTS effectively in a manner consistent with their international obligations under SOLAS and to conform with IALA Standards.
- In particular, the guidance provides a mechanism to ensure those responsible for the planning and implementation are competent in the practices described in Recommendation R0119 Establishment of VTS (V-119) and associated Guideline G1150 Establishing, Planning and Implementing VTS

Activity		Key Components
ESTABLISHING	→	How to give effect to SOLAS regulation V/12 (Vessel Traffic Services) of the Convention? <i>International Framework and Obligations</i> <i>National law</i>
PLANNING	→	How to plan for a VTS? <i>Comprehensive information gathering, risk assessment and analysis process to determine the need for a VTS, the feasibility of operating a VTS and the design necessary to achieve the needs identified.</i>
IMPLEMENTING	→	How to implement a VTS? <i>Project Management</i> <i>Procurement</i> <i>Conformance with IMO Resolution A.857(20) and IALA Standards</i> <i>Authorization</i>



New and revised document

Revised Guideline G1141 operational procedures for delivering VTS

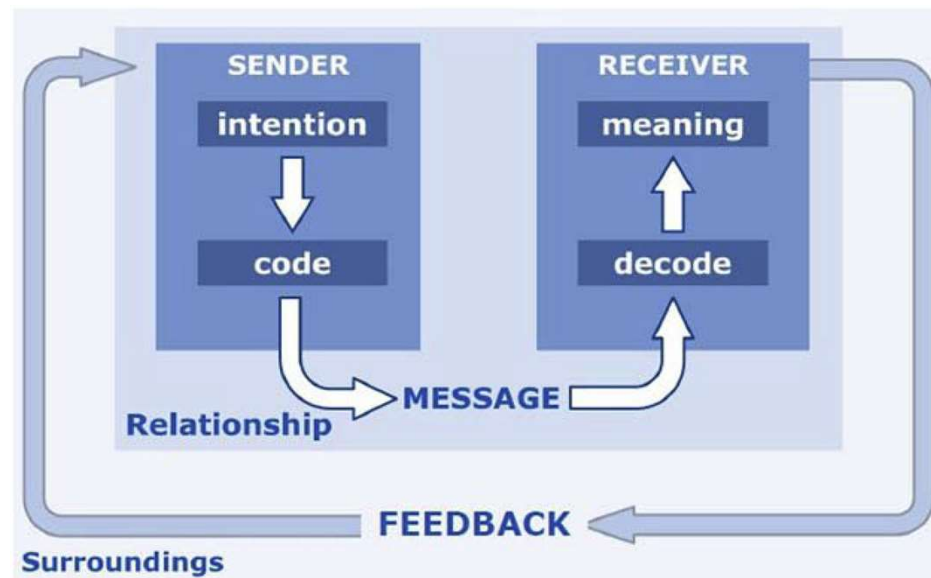
- Assists VTS authorities in identifying key aspects that should be considered when developing operational procedures for a VTS centre.
 - Title change from 'Operational procedures for VTS' to 'Operational Procedures for Delivering VTS'
 - Revised to reflect new and amended IALA documentation and ensure the guideline provides an effective document to assist authorities to implement and operate a VTS in a global and harmonized manner.
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New and revised document

Revised Guideline G1132 on VTS Voice Communications and Phraseology, Ed2.0, June 2021

- Intends to engage and support all VTSOs, new and experienced, in promoting best practice in effective VTS radio voice procedures.
- Update of document and inclusion of VTS phraseology. Change of title from “VTS VHF Voice Communication” to “VTS Voice Communications and Phraseology”





New and revised document

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

- Provides principles, evidence of prior learning, the assessment process for VTS.
 - Title change from 'Assessment of training for VTS' to 'Assessment of prior learning exemption for VTS model courses'
 - Edition 2.0 Entire document reviewed and updated. Change of title to "Assessment for Recognition of Prior Learning in VTS Training".
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New and revised document

New Guideline on the Evaluation of Platforms for the Provision of Maritime Services in the Context of e-Navigation, Ed1.0, June 2021

- This Guideline provides information for the evaluation of harmonized and suitable platforms for the provision of Marine Aids to Navigation (AtoN) services including VTS in the context of e-Navigation as recommended by Recommendation R1019 Provision of Maritime Services in the Context of e-Navigation in the Domain of IALA.
 - This document concentrates on the required criteria for these next generation platforms which support the provision of Maritime Services and presents an overview of relevant requirements.
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Thank you.

