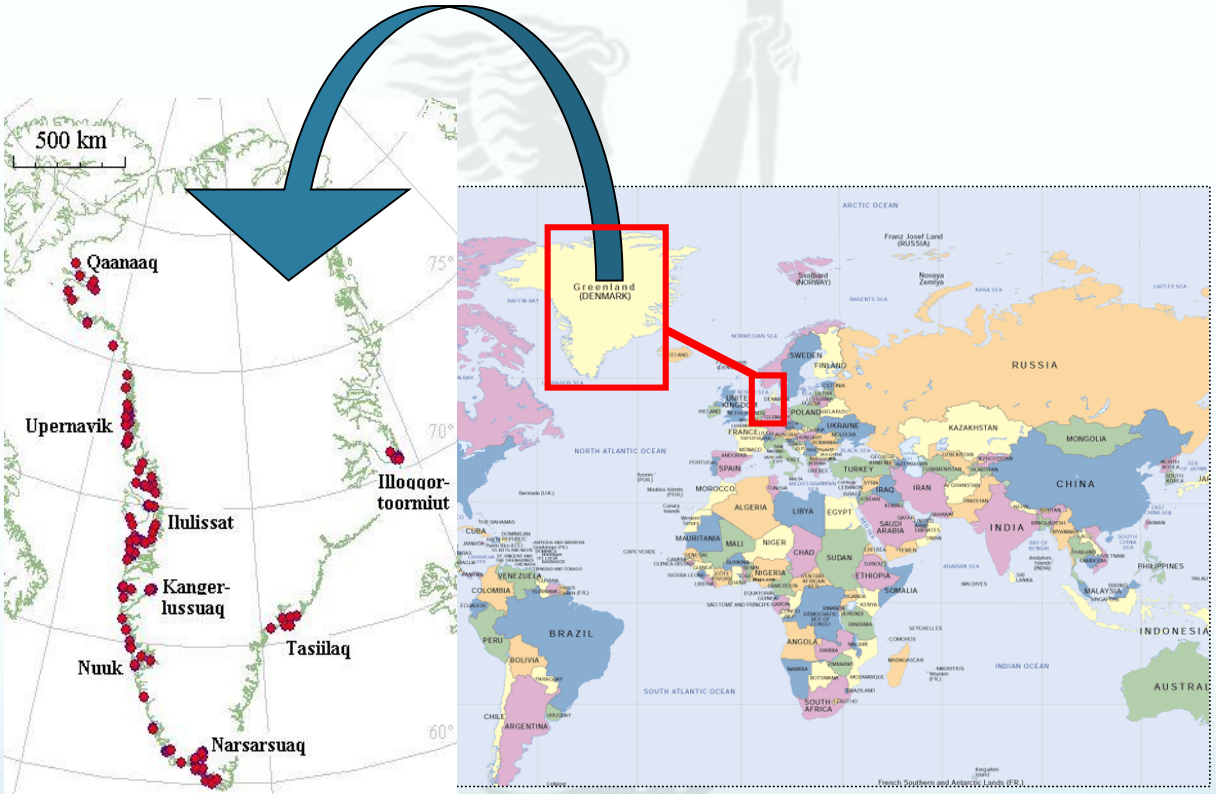
INTERNATIONAL ASSOCIATION OF MARINE AIDS TO NAVIGATION AND LIGHTHOUSE AUTHORITIES

IHO Hydrographic Commission on Antarctica, 28-30 June 2016

Secretary-General Francis ZACHARIAE

Denmark



39.000 km arctic coastline

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About IALA

International Association of Marine Aids to Navigation and Lighthouse Authorities

A Brief History of IALA

- Technical lighthouse conferences had been convened since 1929
- IALA was formed in 1957 as a technical association based in Paris to support the goals of those earlier conferences
- The organisation has a consultative, recommendatory, and technical nature and is a not-for-profit and non political international association with Non-Governmental Organisation status

The Maritime Buoyage Agreement

IALA A and IALA B

During the IALA conference in November 1980 two navigation marking systems, ie the System A (red colour for the left hand of the ship) and the System B (red colour for the right hand of the ship), were combined into one - the IALA System.

Headquarters

St. Germain-en-Laye, near Paris, is the home base of IALA providing:

- Offices of the permanent secretariat and
- IT-equipped meeting rooms for technical committees, workshops and seminars

Aids to Navigation

IALA Constitution Art. 1

"A device, system or service, external to vessels, designed and operated to enhance safe and efficient navigation of individual vessels and/or vessel traffic"

The IALA “Motto” and principal aims

"Successful voyages, sustainable planet"

- To harmonise standards for Aids to Navigation systems worldwide
- To facilitate the safe and efficient movement of shipping
- To enhance the protection of the marine environment

Four Types of Membership

- 83 National Members (Coastal States)
- 55 Associated Members
- 126 Industrial Members
- 47 Honorary Members

The Committees

The “Power House” of IALA

- AtoN Requirements and Management (ARM)
- Engineering and Sustainability (ENG)
- Vessel Traffic Services (VTS)
- e-Navigation (ENAV)

Organization

Three Pillars

- Policy and Technical Operations
- Administration and Finance
- The World-Wide Academy

Publications

Main result of the Committees work

- **Standards** which can be referred to directly in IMO and other Conventions and national maritime laws
- **Recommendations** advise what should be done
- **Guidelines** advise how to implement the recommendations as “best practice”
- **Manuals** (NAVGUIDE; MBS; VTS Guide; IALA Dictionary)
- **Model courses** which provide guidance on the training of VTS personnel; Aids to Navigation Managers and Aids to Navigation Technicians.

The World-Wide Academy

Training and capacity building

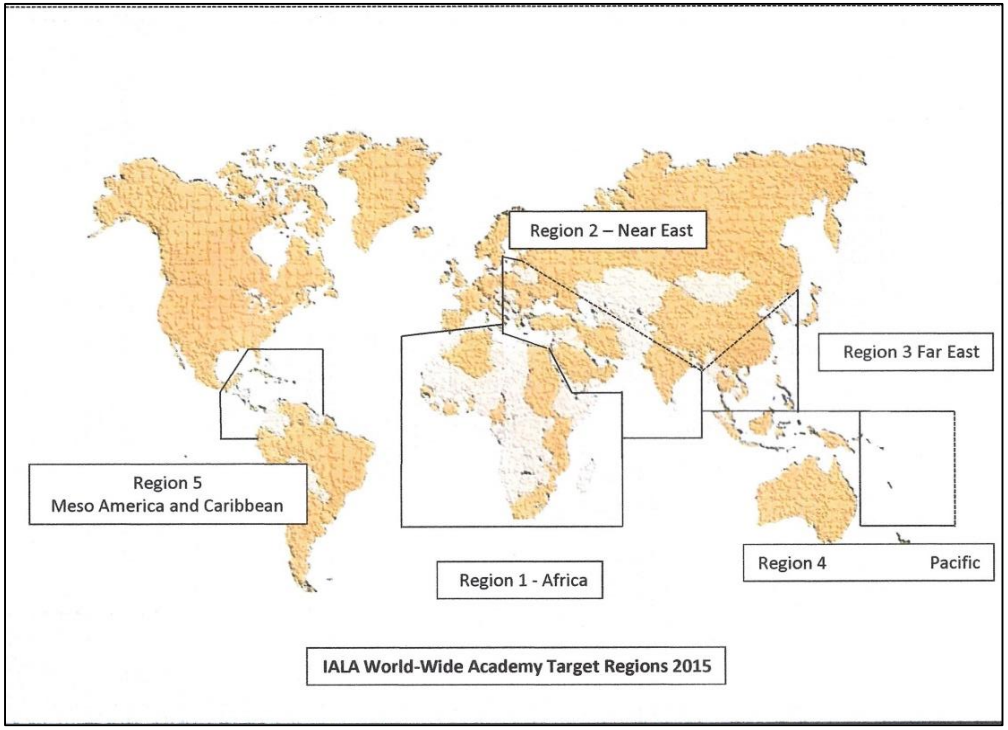
The World-Wide Academy

The vehicle by which IALA delivers training and capacity building

- Started in January 2012
- Independently funded
- Focused on Strategic Goal 2
- Facilitates both AtoN and VTS training
- Develops capacity building in 5 key regions

Target States 2016 - 2019

Region	Target States
Africa Anglophone	9
Africa Francophone	7
Africa Lusophone	4
Near East	13
Far East	5
South West Pacific	12
Meso America and Caribbean	19
Total States	**69**



Training

Generally delivered by Accredited Training Organizations

- VTS courses – V-103 series
- Aids to Navigation courses E-141 series
- E141/1 – Level 1 AtoN Managers
- E141/2 – Obligations of Senior Management in National Competent Authorities
- IALA WWA.L2.0 – Level 2 Technicians
- Annual Risk Management Seminars (IALA WWA.L1.3)
- Annual GNSS and e-Navigation course (IALA WWA.L1.4)

Capacity Building

In developing countries

Capacity Building is the development and strengthening of human and institutional resources. AtoN Competent Authorities in developing countries are obliged to deliver AtoN services, but sometime lack the capacity to do so. The Academy actively facilitates that process through technical missions and training events

Activities

in the Polar Region

Activity

In the Actic Region

- 2010 IALA Resolution (AtoN in Arctic Waters)
- Special Group for ”arctic Councilors”
  - Looking at hosting a IHO/IALA seminar
- Workshop on providing AtoN services in Polar Regions
  - IALA Guideline No. 1108 on the challenges of providing AtoN Services in Polar regions
- Participation in Arctic Council WG, PAME
- Workshop on the challenges of providing AtoN services in hot climates, September 2016

2010 resolution (IMO MSC 87/INF.15)

The Arctic IALA **Members** should:

- initiate the establishment of a common Arctic ship reporting and data sharing system;
- develop a common approach to marine traffic awareness and monitoring;
- move towards a single, harmonized system of marine aids to navigation; and
- anticipate and mitigate risk to maritime traffic and the marine environment.

2010 resolution (IMO MSC 87/INF.15)

IALA should support the members in relation to:

- enhancing marine traffic awareness and providing a forum for those establishing ship reporting and data sharing systems;
- the marking of polar routes and development of virtual aids to navigation;
- the application of risk management methodology; and
- the importance of improving hydrographic service in the region.

IALA-IHO Seminar on Arctic Navigation

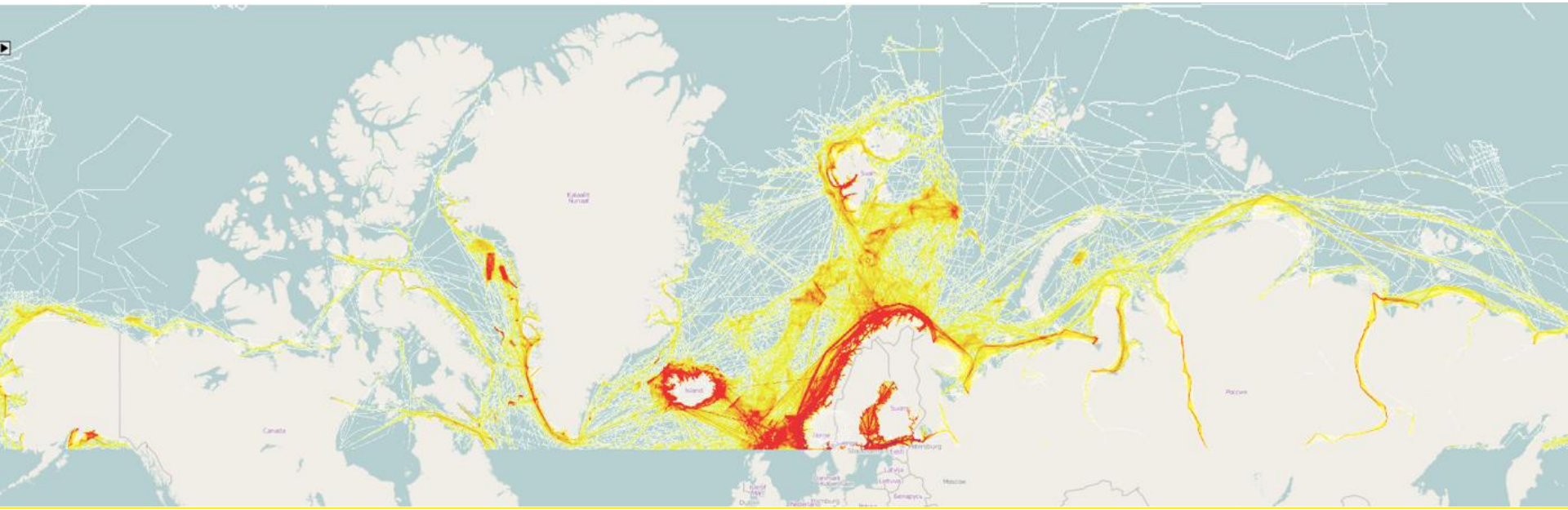
IALA HQ summer 2017

- To raise awareness of needs of maritime safety in the Arctic
- To agree on desirable coordinated action
- To decide on follow up action

IALA-Net

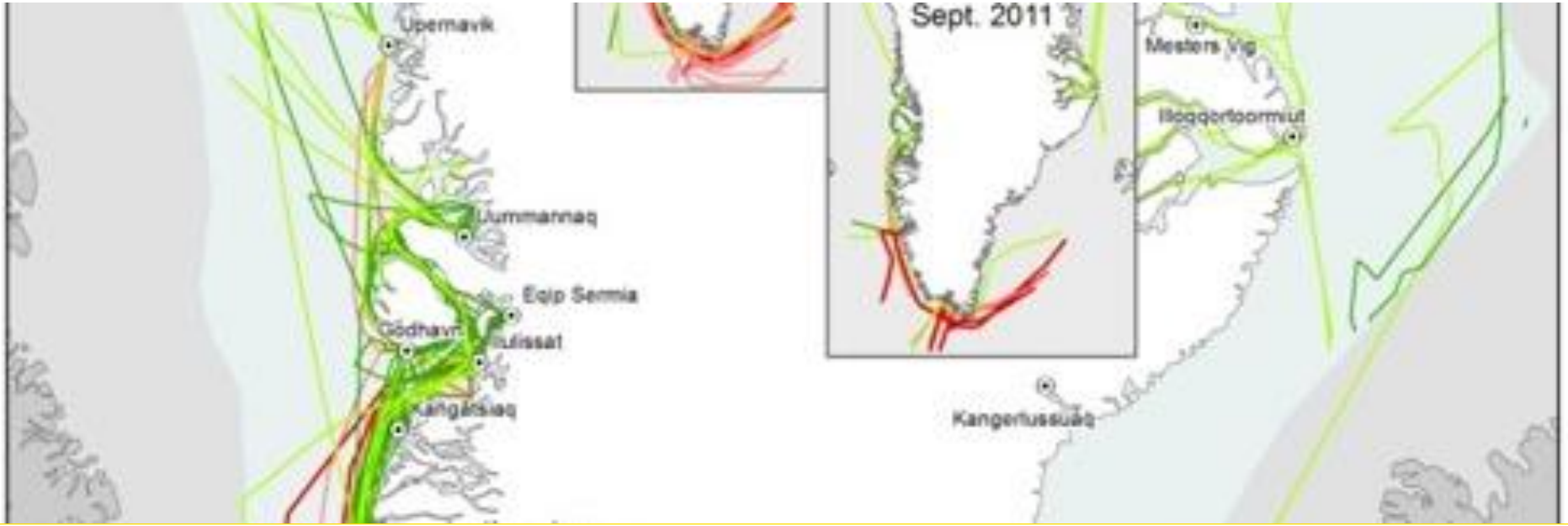
Based on input from National Members

IALA-NET is a near real time maritime data exchange service, provided through the Internet. It has AIS data storage and statistics capability.
It is a worldwide service available only to national competent authorities who provide maritime data from their area of responsibility in exchange for data from other participants.
The service is intended to assist participating authorities in fulfilling their duties in relation to maritime safety, security, protection of the marine environment, and the efficiency of navigation. Participation in IALA-NET is free of charge.

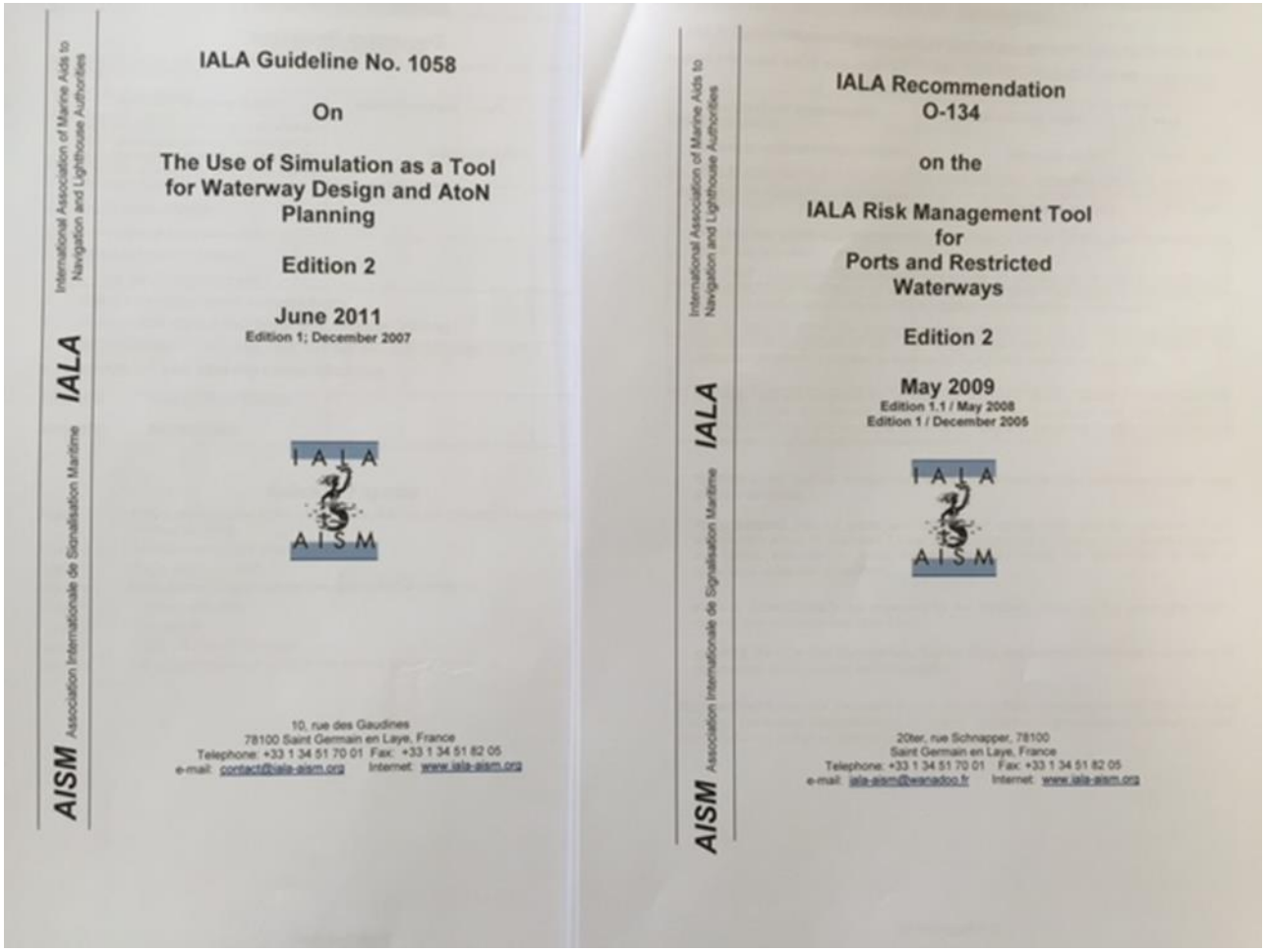


Risk to Navigation

- How to measure traffic volume?
- How to quantify risks?



Recommendations and Guidelines



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

IALA Guideline No. 1058

On

The Use of Simulation as a Tool for Waterway Design and AtoN Planning

Edition 2

June 2011

Edition 1; December 2007

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

IALA Recommendation
O-134

on the

IALA Risk Management Tool
for
Ports and Restricted
Waterways

Edition 2

May 2009

Edition 1.1 / May 2008

Edition 1 / December 2005

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e-Navigation

- Virtual AtoN
- IALA work on e-Navigation

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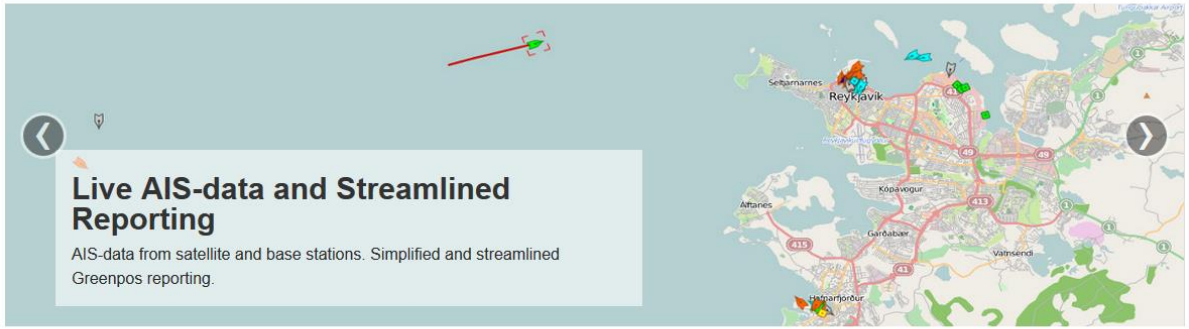
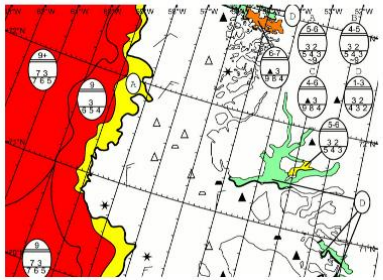


Welcome to ArcticWeb

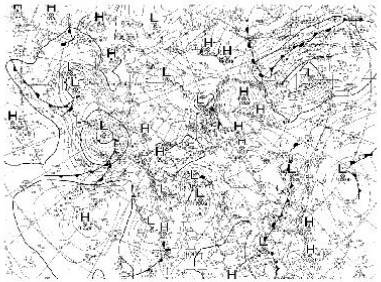
An effort from Danish Maritime Authority to improve maritime safety in the Arctic region. ArcticWeb serves as a single access point to safety related information, provides streamlined reporting and allows for voluntary coordinated voyage through sharing of positions and planned routes. Ships in the area and their organizations may request access via the button below.

Request Access



Ice Charts

The Danish Meteorological Institute, Greenland Ice Service, collects information regarding ice

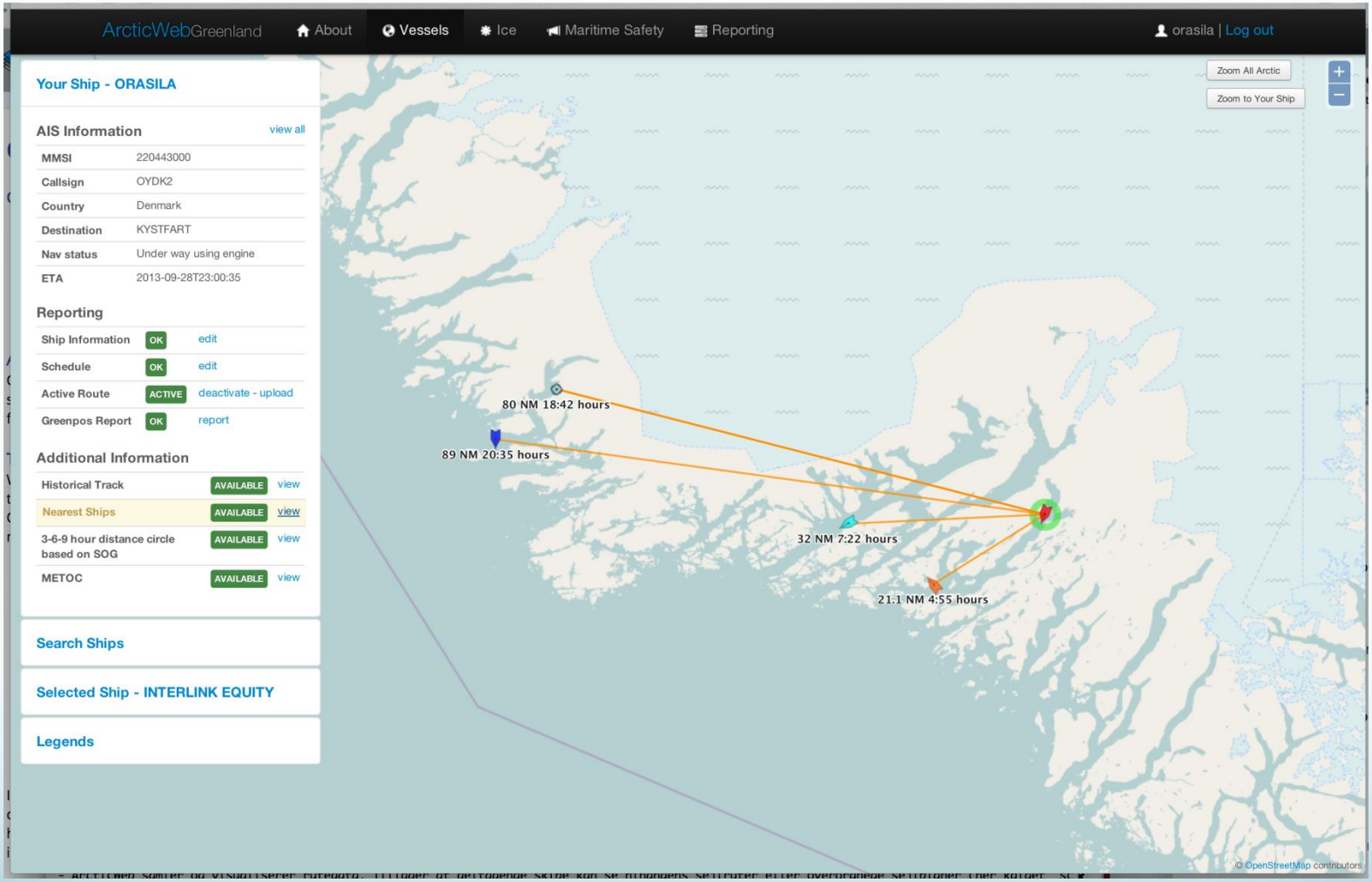


Weather

Warnings and forecasts are broadcasted by KNR (Greenland Radio) and Greenland coast radio

Safety of Navigation - Greenland

A safety package containing regulations and information about special Greenland conditions is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Callsign OYDK2
Country Denmark
Destination KYSTFART
Nav status Under way using engine
ETA 2013-09-28T23:00:35
Reporting
Ship Information OK edit
Schedule OK edit
Active Route ACTIVE deactivate - upload
Greenpos Report OK report
Additional Information
Historical Track AVAILABLE view
Nearest Ships AVAILABLE view
3-6-9 hour distance circle based on SOG AVAILABLE view
METOC AVAILABLE view
Search Ships
Selected Ship - INTERLINK EQUITY
Legends
Zoom All Arctic
Zoom to Your Ship
80 NM 18:42 hours
89 NM 20:35 hours
32 NM 7:22 hours
21.1 NM 4:55 hours
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The future

From a Non-Governmental Organization to an Intergovernmental Organization

IALA's future as an IGO

A major step in the evolution of IALA

- In May 2014 the IALA General Assembly passed a Resolution supporting the change of from that of a NGO to that of an international intergovernmental organization (IGO)
- The Government of France has commenced diplomatic activities to inform the Governments of Member States of this proposed evolution
- A Diplomatic Conference will be convened – hopefully by 2018
- IALA's core activities will not be affected

QUESTIONS?