iala-aism

13th Conference of the Hydrographic Commission on Antarctica (HCA) Cadiz, Spain, 3-5 December 2013

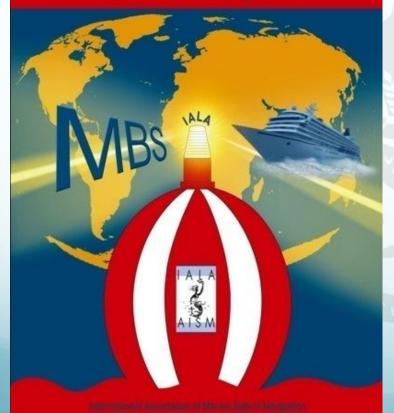## IALA activities affecting HCA

IALA activities affection HCA

* Brief overview of IALA and membership

* Future navigation challenges

* IMO concept of a Sustainable Maritime Transportation System
    * IALA's contribution
        * ✓ Vessel Traffic Services (VTS)
        * ✓ Marine traffic monitoring and analysis tools
        * ✓ S100 Product Specification

* Recent IALA Polar Activities
    * Greenland Workshop

IALA

- Paris since1957
- Harmonisation role (MBS)
- Special observer status with the IMO
- International standards on Aids to Navigation
  - Buoyage, VTS, AIS, (e-NAVIGATION)
- Capacity building

IALA Committees
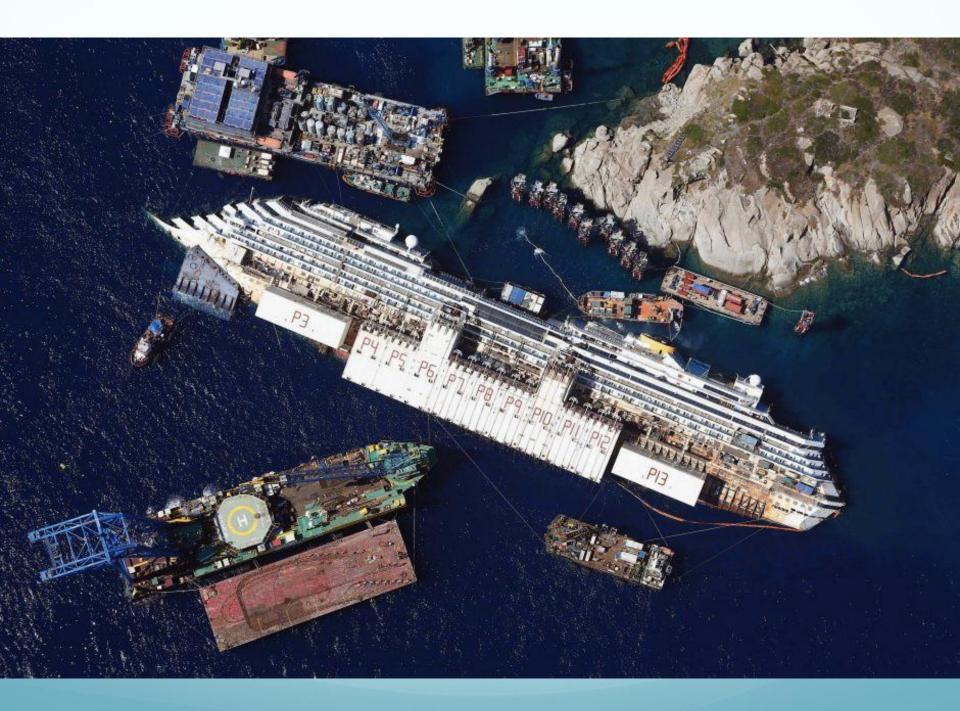

Large workforce of world experts

- *ANM, Aids to Navigation Management*
- *VTS, Vessel Traffic Services*
- *eNAV, eNavigation*
- *EEP, Engineering and Environmental Protection*
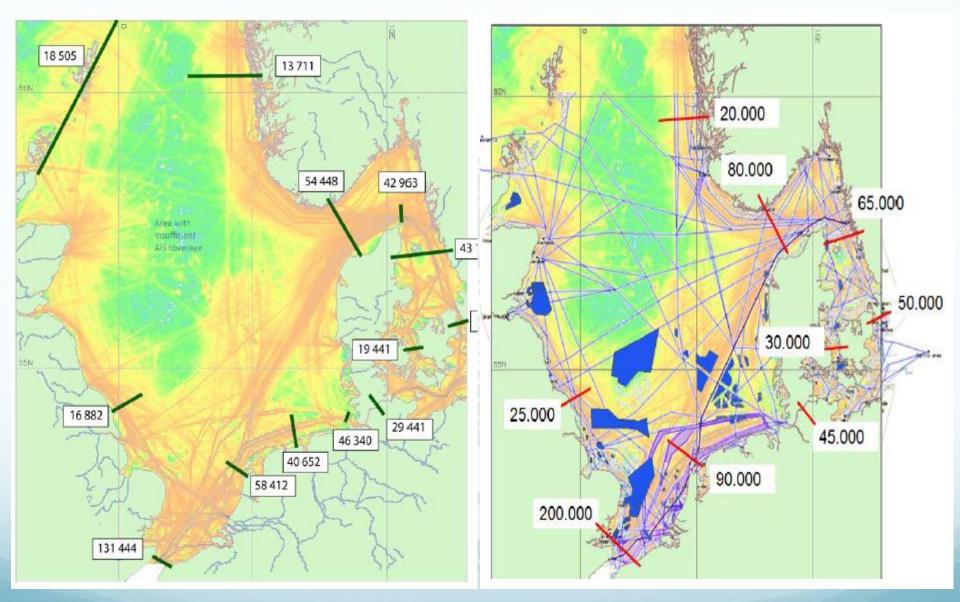
Future navigation challenges

- Growth in maritime sector

- Marine Spatial Planning (MSP)

- E-NAVIGATION (IMO/IALA)

- Growth in VTS

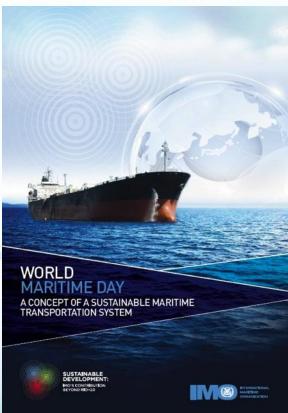- Calls for more positive control in some areas

2012 (AIS traffic)

Prognosis 2020+

Sustainable Maritime Transportation and IALA

❑ Safety Culture and Environmental Stewardship

❑ Education and training in maritime professions, and support for seafarers

❑ Energy efficiency and ship-port interface

❑ Energy supply for ships

❑ Maritime traffic support and advisory systems

❑ Maritime security

❑ Technical co-operation

❑ New technology and innovation

❑ Finance, liability and insurance mechanisms

❑ Ocean Governance

WORLD
MARITIME DAY
A CONCEPT OF A SUSTAINABLE MARITIME
TRANSPORTATION SYSTEM

SUSTAINABLE
DEVELOPMENT:
IMO'S CONTRIBUTION
BEYOND RIO+20

IMO INTERNATIONAL MARITIME ORGANIZATION

The future of Maritime Traffic Support

- ✧ Increased reliance on shore-based systems

- ✧ Most efficient means of delivering technology to the mariner

- ✧ Offers 'technology jump' in some waterways (remote or underdeveloped regions)

- ✧ The continued need for international harmonisation

Port Operations Control Centre – Vista Maritime and Port Authority of Singapore ©

Marine traffic monitoring and analysis tools

- IALA-NET (data sharing)
- IALA Risk Management toolbox (PAWSA and IWRAP)

IWRAP application

Helsinki

Tallinn

leg 28

leg 2

Technical

The IHO Registry and IALA's involvement

In January 2010 the International Hydrographic Organization (IHO) adopted S-100, a framework geospatial standard for hydrographic and related data. S-100 is aligned with the ISO 19100 series of geographic standards, thereby making the use of hydrographic and other geographic data more interoperable than using the present IHO S-57 data transfer standard.

The S-100 document is underpinned by a Registry and component Registers based on ISO 19135 - Procedures for registration of items of geographic information. The IHO owns and manages the Registry.

The S-99 standard describes the roles, responsibilities and procedures for operating and managing the S-100 Geospatial Information Registry and its component Registers.

Within the IHO Registry, registers may be used by external Submitting Organisations.

IMO NAV, at its 57th session, agreed on the use of the IHO GI Registry as a baseline for the collection, exchange, and distribution of data. Supporting a greater variety of information and therefore supporting increased interoperability, was the first step towards the Common Maritime Data Structure essential for e-Navigation.

IALA Council has approved the participation of IALA in the IHO GI Registry as a Submitting Organisation and as a domain owner (i.e. the IALA domains within the Registry).

IALA committees and contributors have now begun the process of populating the IALA Domain within the registry. The development of product specifications comes first and then, once approved, the required items are submitted for inclusion in the registry.

Registration form
IALA Workshop on the Challenges
of Providing AtoN Services in Polar Regions
Ilulissat, Greenland,
September 30 to October 4, 2013

☐ Delegate   ☐ Student

Surname ....Initials ....
First name: ....
Mr/Mrs/Dr/Capt./etc.: ....
Country: ....
Organisation or Company: ....
....
Address:..
....
....
Telephone:...
Mobile:..
Fax:..
e-mail:..

Registration Payment

☐   By enclosed cheque or bank draft

☐   By CREDIT / DEBIT card
        Please charge my VISA, MASTERCARD,
        AMEX CARD
        Card No: ....
        Expiry Date - Security Number ....
        Total to be charged: ....
        Signature:

☐   An invitation letter is required (for visa purposes)
☐   Please send an INVOICE
☐   Dietary requirement: specify

I agree to my contact details being provided in the final report
of the workshop/seminar   YES / NO

The completed form should be sent to:

e-mail: *contact@iala-aism.org*
FAX: +33 1 3451 8205
Post: 10, rue des Gaudines
78100 Saint Germain en Laye, France

Event
The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) in association with the Danish Maritime Authority (DMA) is hosting a workshop on the Challenges of Providing AtoN Services in Polar Regions, to be held in Ilulissat, Greenland, September 30 to October 4, 2013.

Background
For over fifty years, IALA has addressed Aids to Navigation Engineering matters, including aspects of AtoN engineering in Polar Regions. However, in view of the recent opening of shipping routes across the arctic and the increase in number of voyages in polar regions, it is clear there is a need to provide further guidance on the special challenges of providing AtoN services in Polar Regions.

Topics
The workshop will cover subjects such as AtoN site selection, AtoN construction, installation and maintenance, project planning and management, as well as the potential of e-Navigation in Polar Regions.

Notice of an IALA Workshop

Workshop on the Challenges of Providing AtoN Services in Polar Regions

*Ilulissat, Greenland,
September 30 to October 4, 2013*

website – http://www.iala-aism.org