

ERSAHC 1 2014

ic-enc.org
International Centre for ENC's



IC-ENC

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PRIMAR

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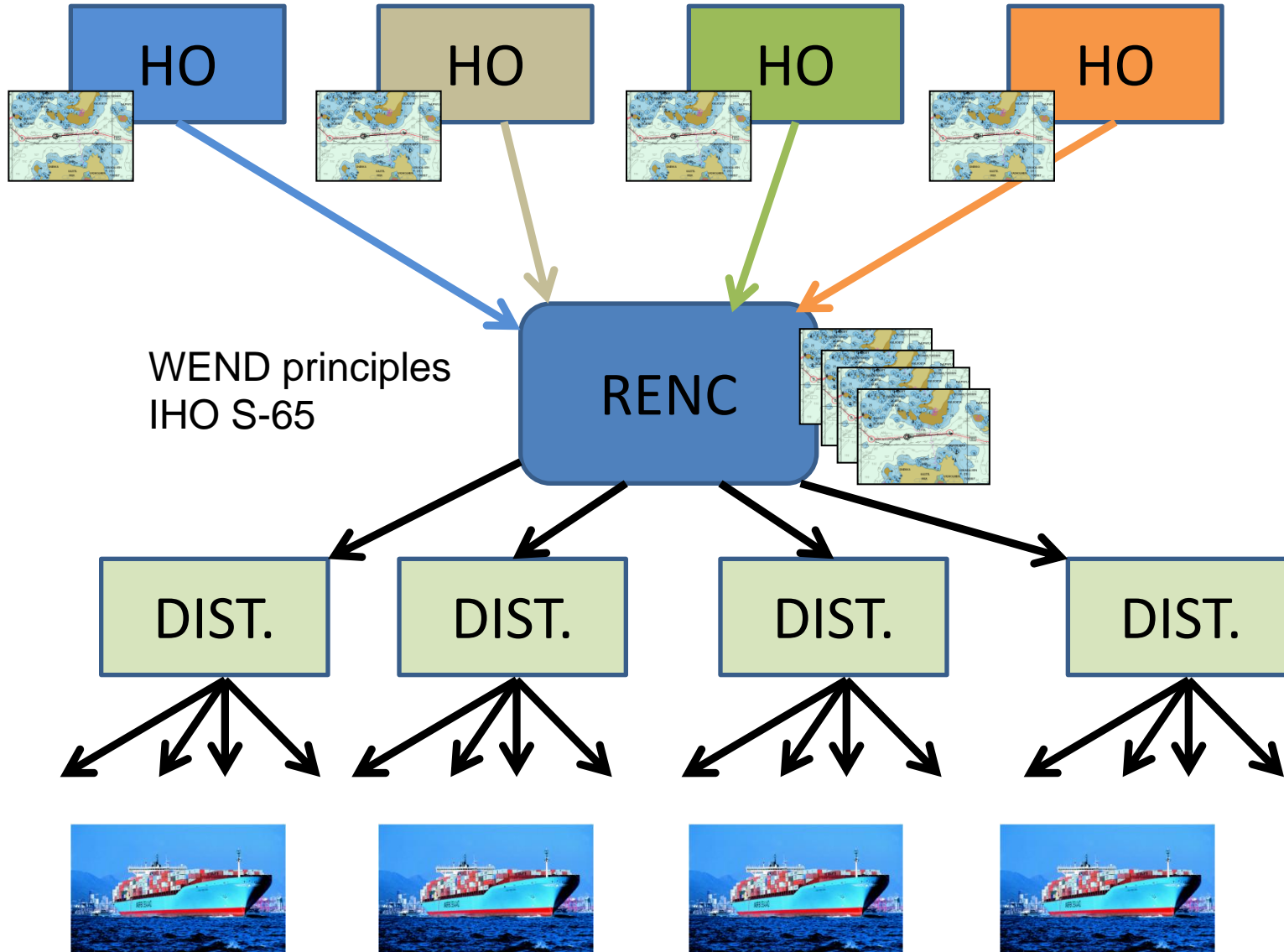
RENC Contents

- RENC concept
- Benefits of RENC membership
- IC-ENC and PRIMAR
- RENC Cooperation
- Developments

What is a RENC?

- An organisation that assists HOs in the production, quality assurance and distribution of ENC's.
- Shared experiences, recommendations on best practice and economies of scale mean that RENCs contribute to safety at sea by enhancing ENC quality and accessibility in consistent way.
- Operates in accordance with IHO standards and WEND principles.

Distribution through a RENC



RENC Organisations

There are currently two RENC organisations



- The International Centre for ENC's
- Headquarters is based in England, hosted by UKHO.
- A regional IC-ENC office is in operation in Australia, hosted by AHS
- PRIMAR is based in Norway, Stavanger
- Hosted and operated by the Norwegian HS

RENC Members

- Combined, 40 IHO member states are members of a RENC

Argentina,	Ecuador,	Lithuania	Romania
Australia,	Estonia,	Montenegro	<u>Russian</u>
Bahrain,	Finland,	<u>Mozambique,</u>	<u>Federation,</u>
Belgium,	France,	Mexico	South Africa
<u>Brazil,</u>	Georgia	Netherlands,	Spain,
Chile,	Germany,	New Zealand,	Sweden,
Colombia,	<u>Greece,</u>	Norway,	Turkey,
Croatia,	Iceland,	Pakistan,	United Kingdom,
Cuba,	Iran,	Peru,	Uruguay,
Denmark,	Latvia,	Poland,	Venezuela.
		Portugal,	

We represent more than half of the ENC producing member states...

RENC distribution

- IHO member states / entities distributing through PRIMAR RENC in addition.

Canada

South-Korea

EAHC ENCs

Singapore

Italy

Malacca and Singapore Straits (MSS)

India

USA

Japan

Ukraine

We represent more than half of the ENC producing member states...

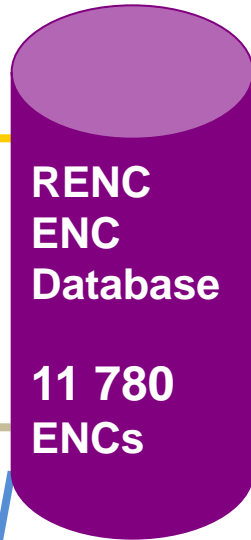
Total RENC database

- Argentine
- Australia
- Bahrain
- Belgium
- Brazil
- Chile
- Colombia
- Cuba
- Denmark
- Ecuador
- Germany
- Iceland
- Mexico
- Mozambique
- Netherlands
- New Zealand
- Pakistan
- Peru
- Philippines
- Portugal
- Romania
- Russia
- South Africa
- Spain
- Turkey
- UK
- Uruguay
- Venezuela

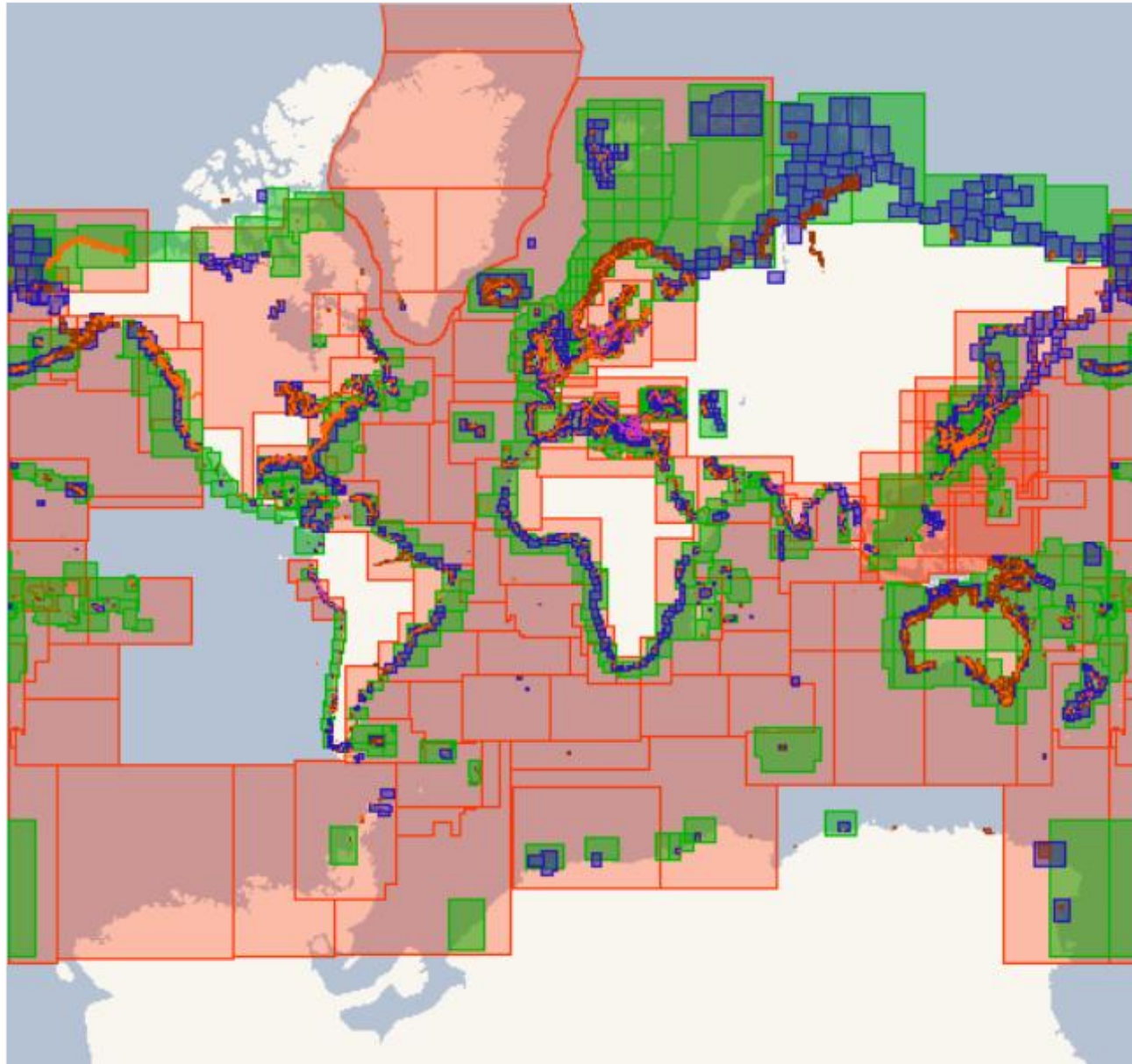
- Brazil
 - Croatia
 - Estonia
 - Finland
 - France
 - Greece
 - Georgia
 - Iran
 - Latvia
 - Lithuania
 - Montenegro
 - Mozambique
 - Norway
 - Poland
 - Sweden
 - Russia
- PRIMAR RENC

- Canada
 - EAHC
 - Italy
 - India
 - Japan
 - Korea
 - Singapore
 - MSS
 - USA
 - Ukraine
- PRIMAR LICENSING PARTNERS

IC-ENC



RENC Data Coverage

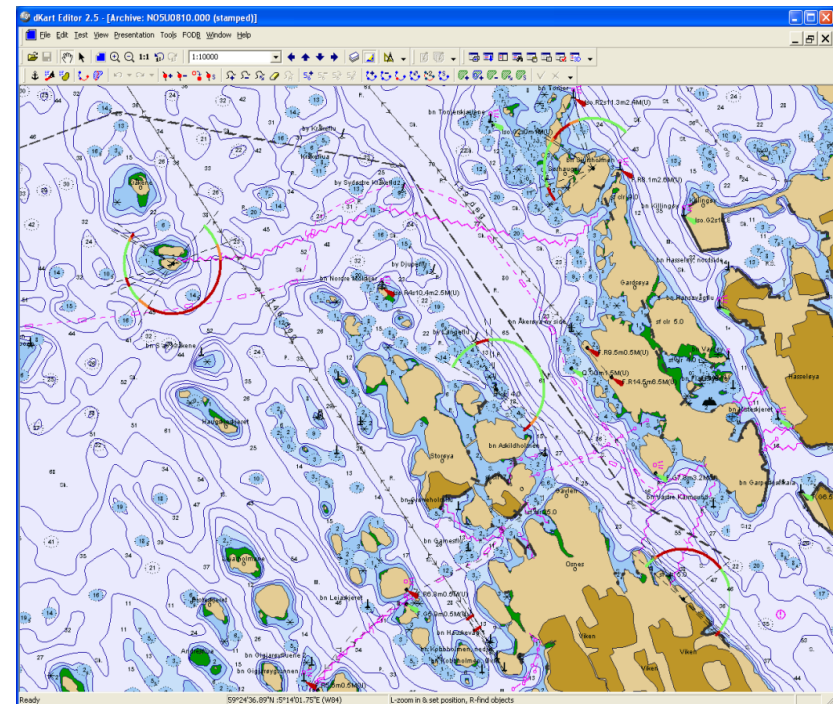


Benefits of RENC Membership

1. Data Quality – Validation tools and services
 - Shared Experiences
2. Distribution - Established route to market for ENCs
 - Available from a single source, under a single set of terms and conditions
3. Revenue Management
4. Additional HO services

Benefits – Data Quality

- The RENCs have established and refined quality procedures based on the IHO standards in order to ensure ENC consistency and harmonization.
- Coordination and sharing of ENC knowledge and experience among HOs avoids duplication of work and ensure efficiency.



Benefits – ENC distribution

- ENCs distributed through the RENCs are available to the end users through the whole range of service providers and get the widest possible distribution
- Distribution through the RENCs has a positive impact on availability and innovation in the maritime industry
- Distribution through RENCs ensures harmonized terms and conditions for service providers

Benefits – Revenue Management

- RENCs provide itemized sales reports for each member
- RENCs manage the collection of revenue from VAR / distributors, returning the appropriate amount to each HO

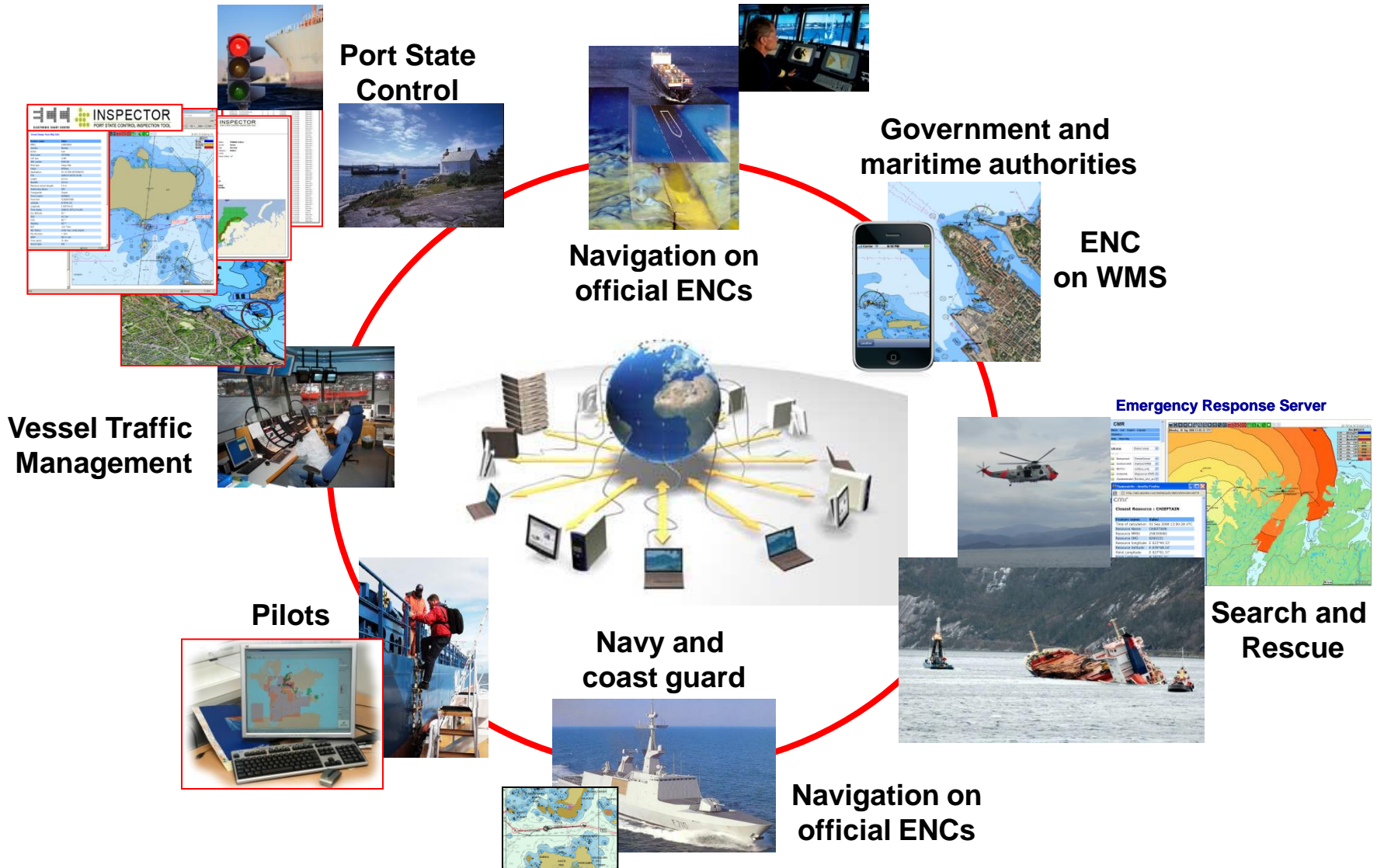
Benefits – HO services

- Services for Navies, Marine pilots, VTS, Coast Guard, Search & Rescue etc.
- Ensuring a common chart reference for all actors concerned with maritime safety
 - Directly linked into national ENC databases, receiving the latest ENC data at all times



Maritime Safety Circle

Through a RENC, all actors can have access to the SAME CHARTING INFORMATION



Funding – how are these benefits paid for?

- The RENCs are operated on a not-for-profit basis
- Operational costs are recovered by retaining a portion of each HO's ENC revenue



Full RENC Descriptions

- The RENCs have produced high level description documents, looking at the operation, governance and finances of each organization.
- The documents are available on the RENC websites:

www.ic-enc.org

www.primar.org

RENC Co-operation

- Strategic
 - Regular face-to-face meetings of RENC Managers / operators
 - Open sessions at each Strategic Group meeting
 - Other combined activities, e.g RHC presentations

RENC Co-operation

- Quality assurance
 - Minimum quality assurance level agreed
 - Process for exchange errors information has started
 - Joint Technical Visits to each office
 - Joint Technical Experts Working Group

RENC Co-operation

- Distribution
 - Combined RENC ENC Licensing model launched 1st January 2013
 - Includes harmonized ‘pay as you sail’ (PAYS) licensing terms
 - Work on joint PAYS spec ongoing



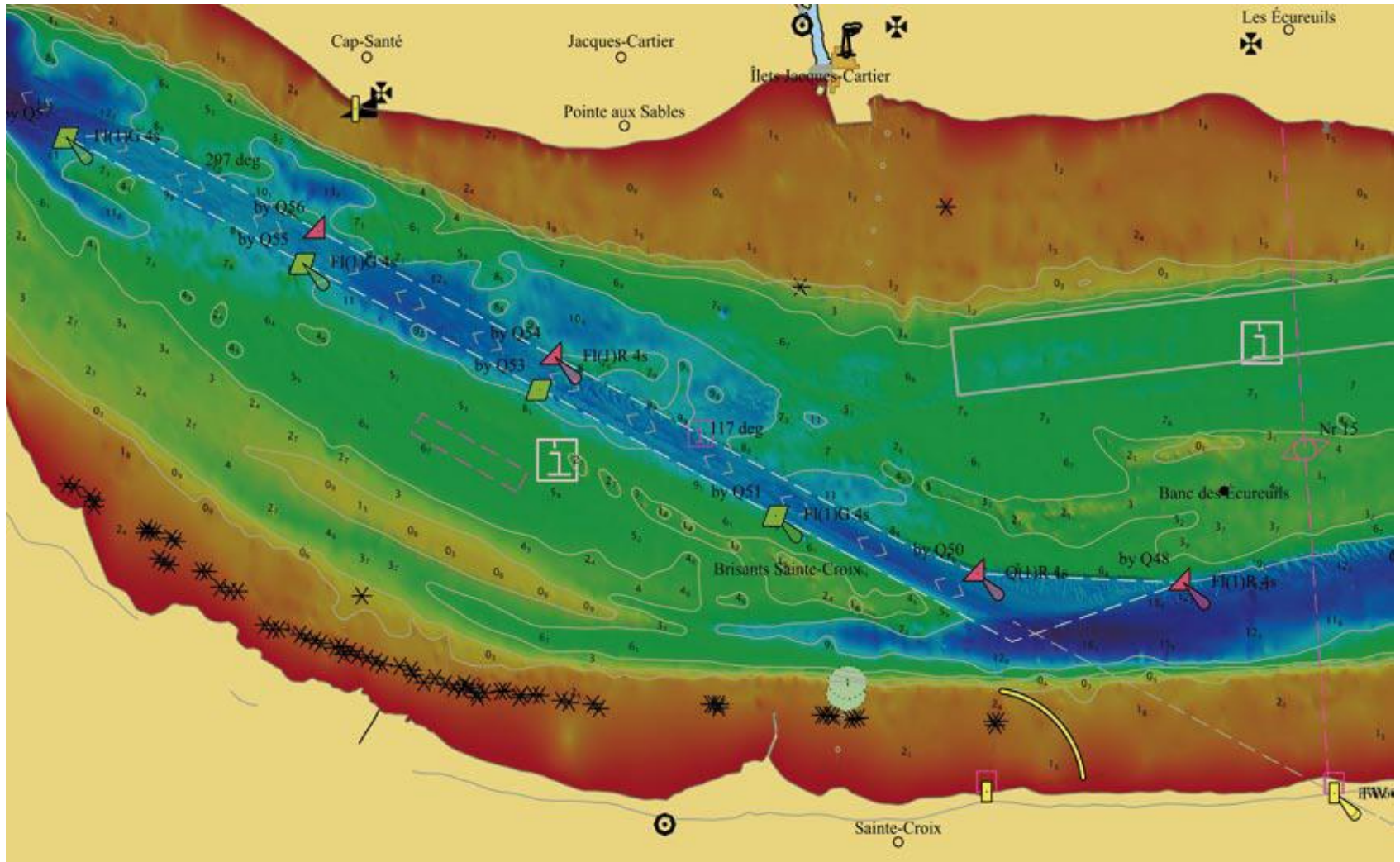
How to Join

- Each RENC office is hosted by an HO (supply staff, accommodation and infrastructure)
- Method of joining is through a bilateral arrangement with one of the host HOs

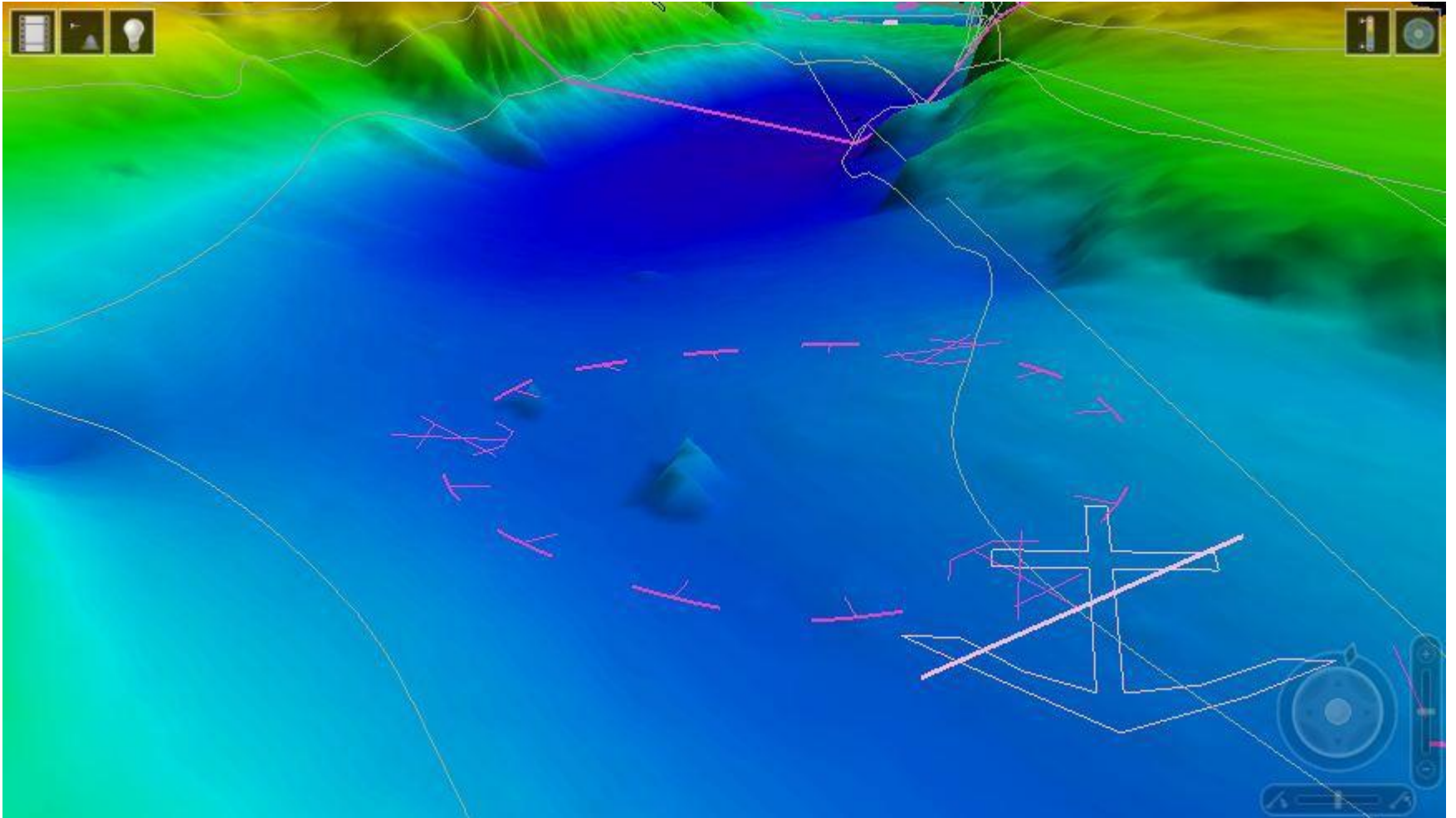
PRIMAR Developments 2013

- PRIMAR / NHS S-102 Bathymetry project.
- S-102 first of the S-100 standards.
- Expanding the PRIMAR ENC service with distribution, sales and customer support for bathymetric data on the S-102 format.
- Protecting the new S-102 service with the next edition of IHO S-63 for access control and authentication.

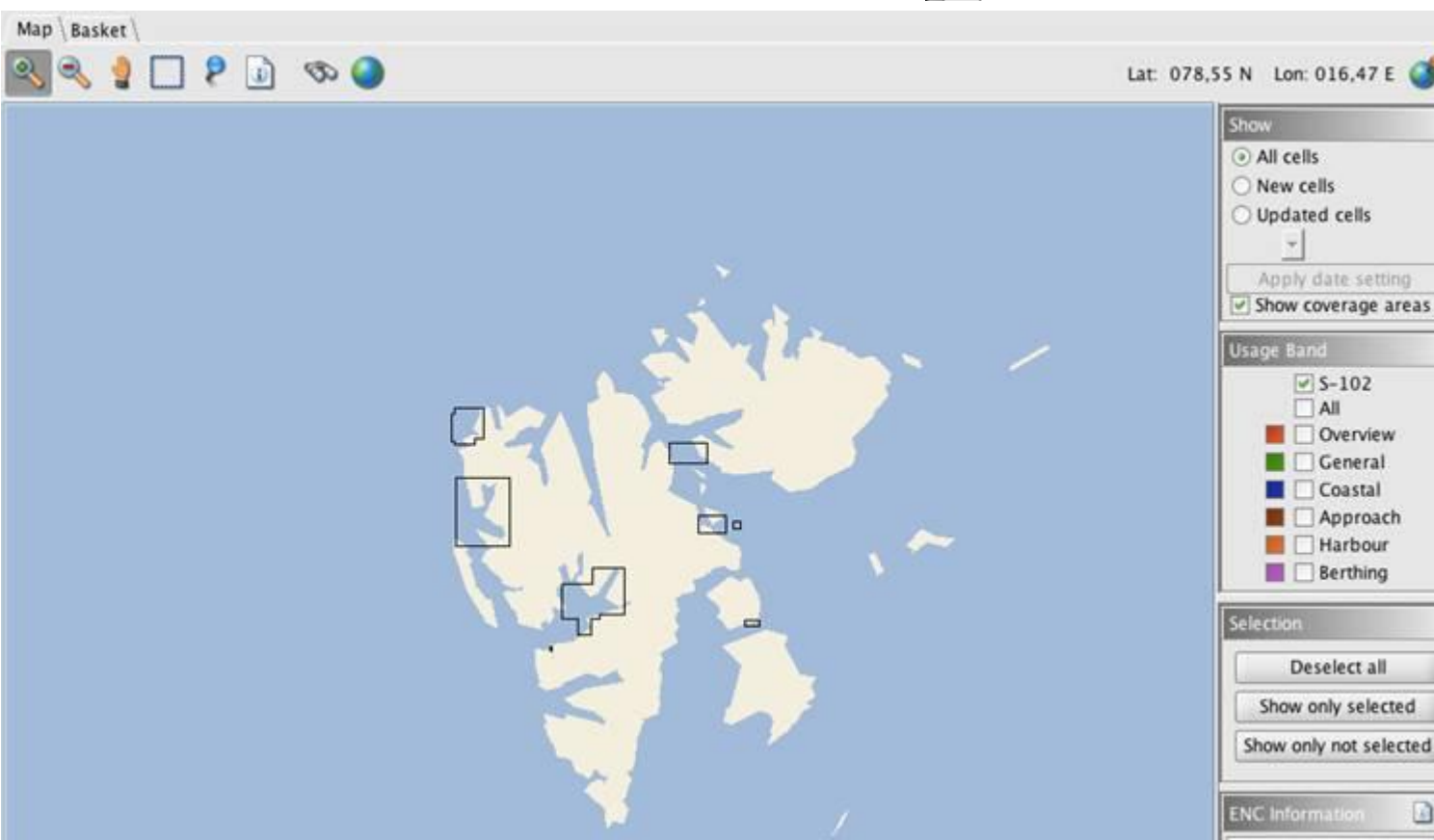
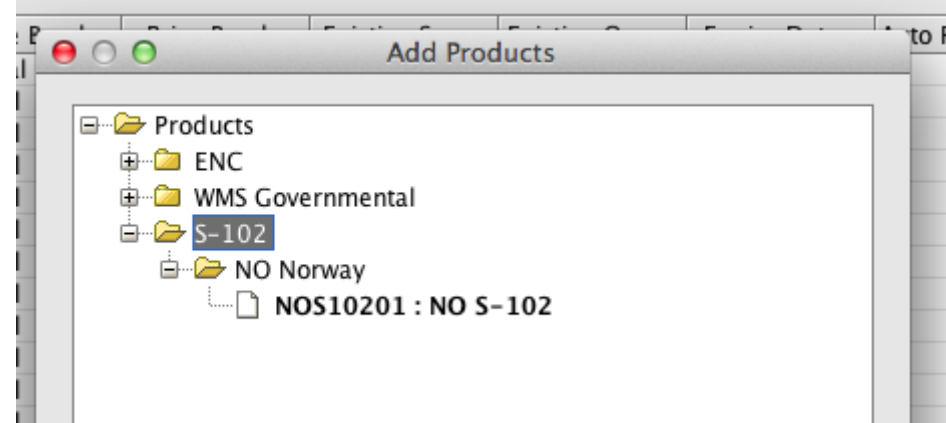
ENC with S-102 overlay



S-102 with ENC overlay



PRIMAR S102 Service: Development Status



Thank you