

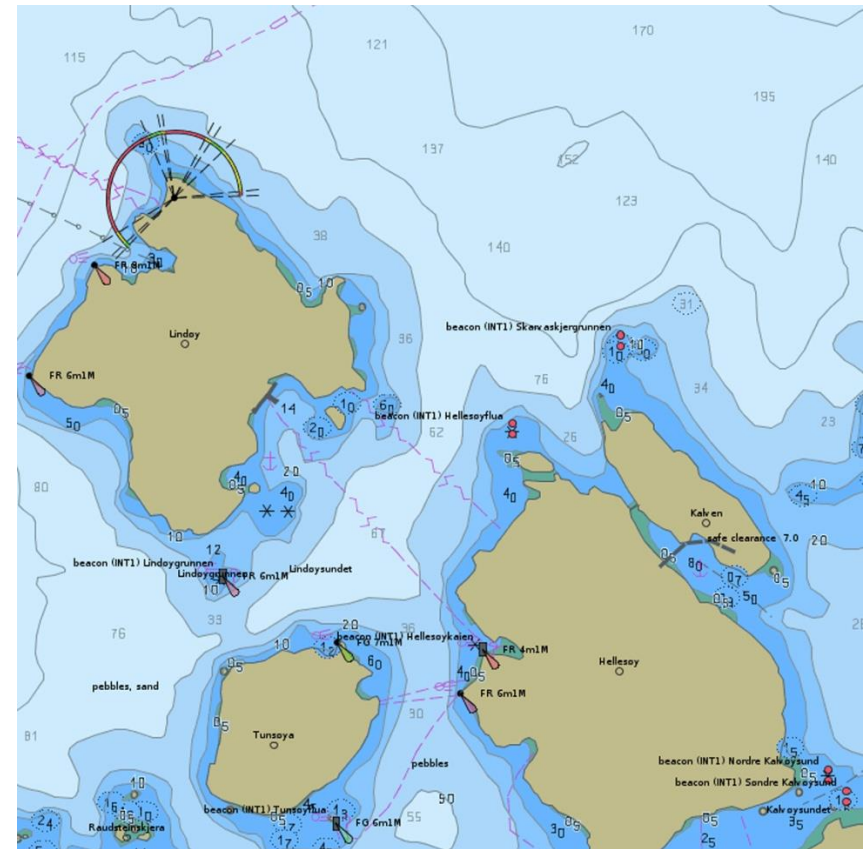


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PRIMAR RENC

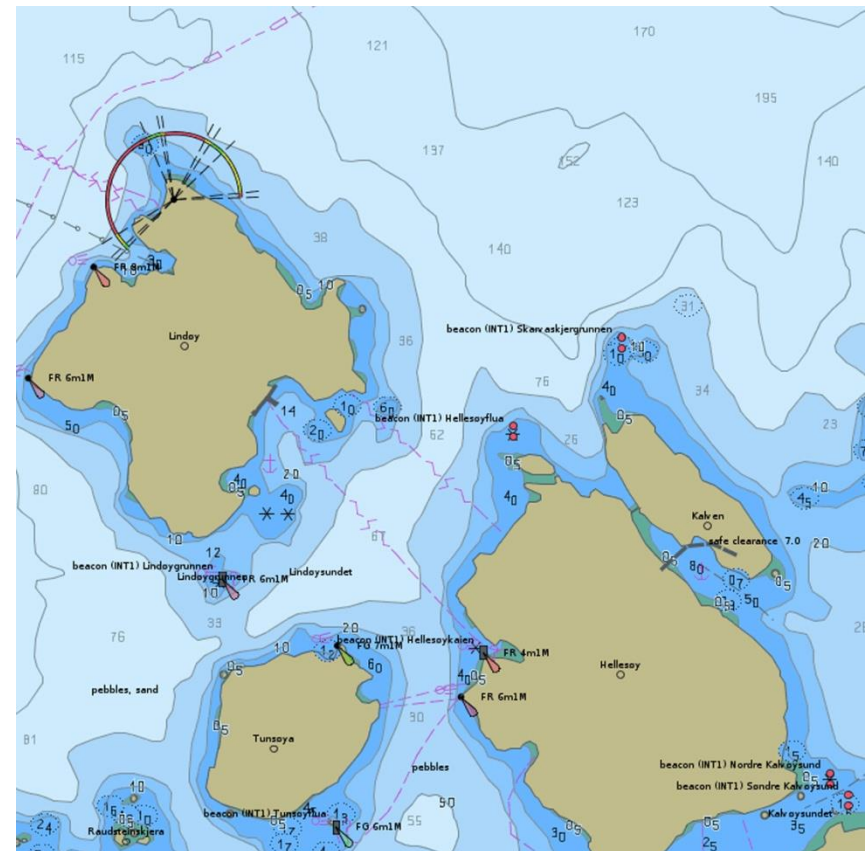
What is PRIMAR?

- A Regional ENC Coordinating Centre (RENC)
- Established in 1999
- Operated on a non-profit basis by the **Norwegian Hydrographic Service** in close cooperation with **Electronic Chart Centre (ECC)**.
- Located in Stavanger, Norway

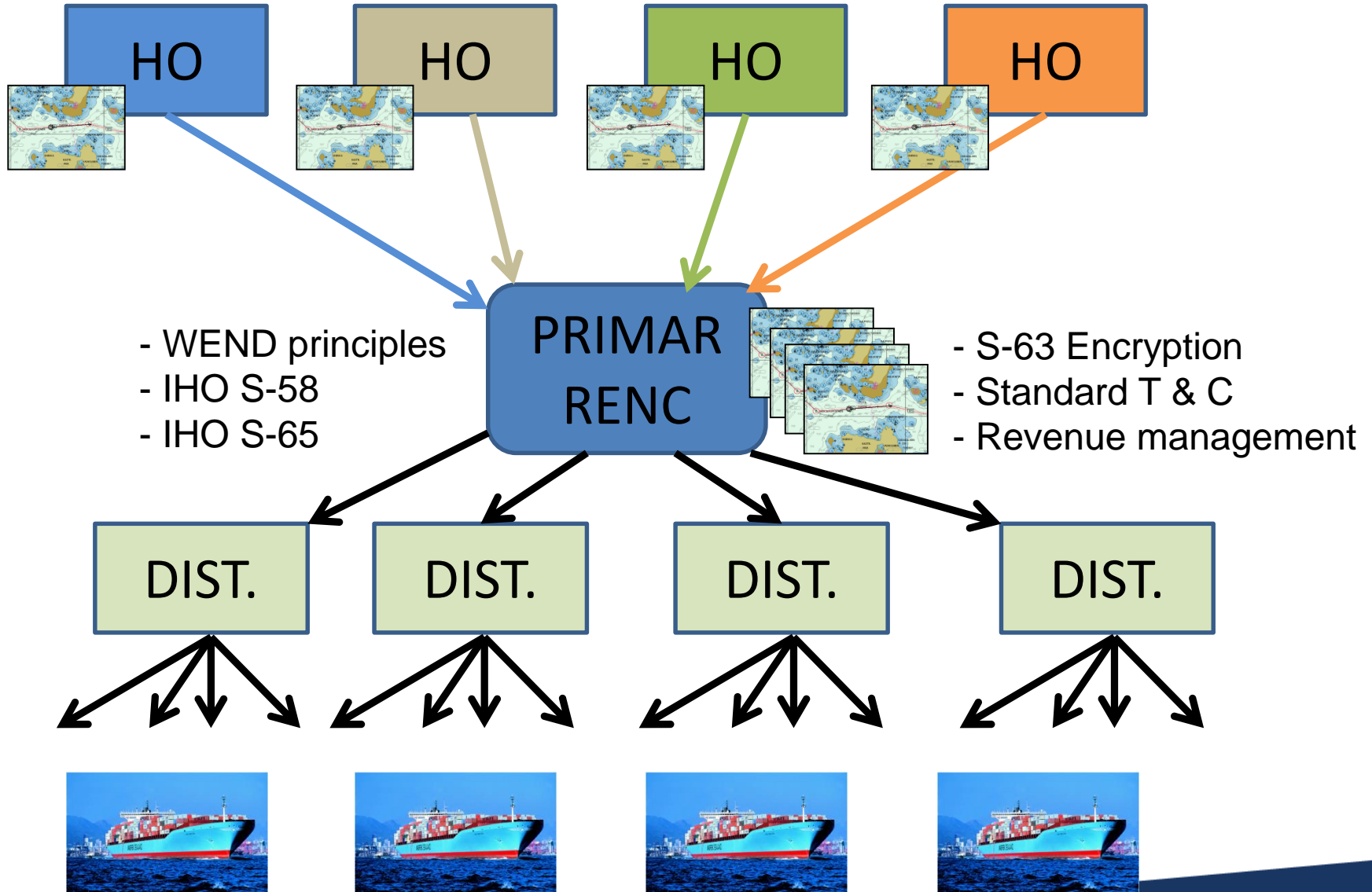


What does PRIMAR?

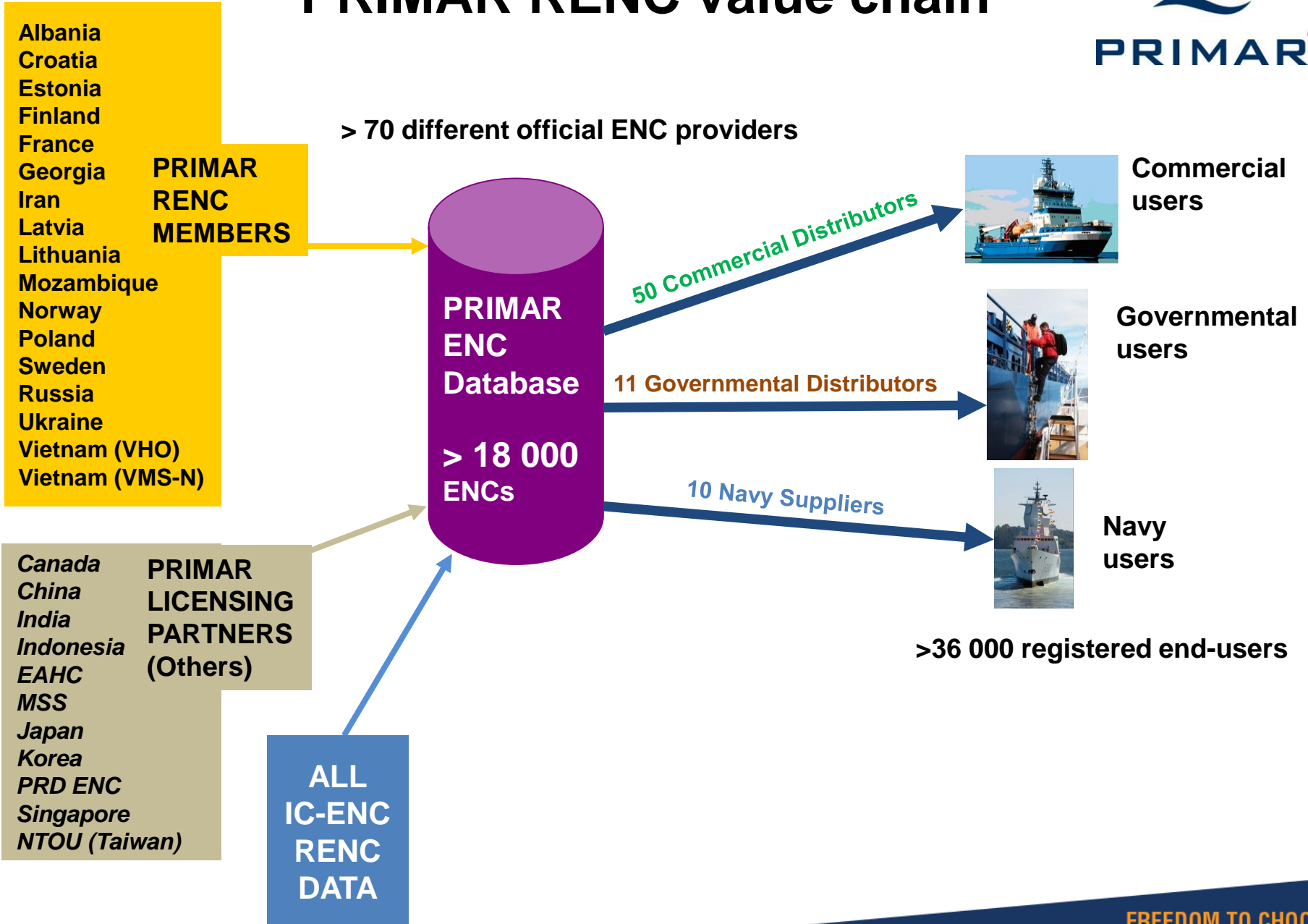
- Provides a consistent and reliable electronic navigational chart (ENC) service world-wide.
- Fully compliant with IHO guidelines, principles and standards.
- PRIMAR RENC:
 - 17 members
 - ENCs from more than 70 different nations available in the PRIMAR ENC service.



ENC Distribution through PRIMAR



PRIMAR RENC value chain





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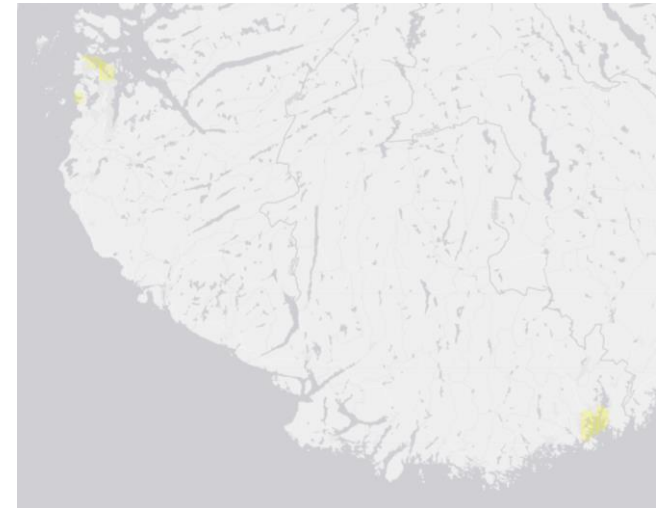
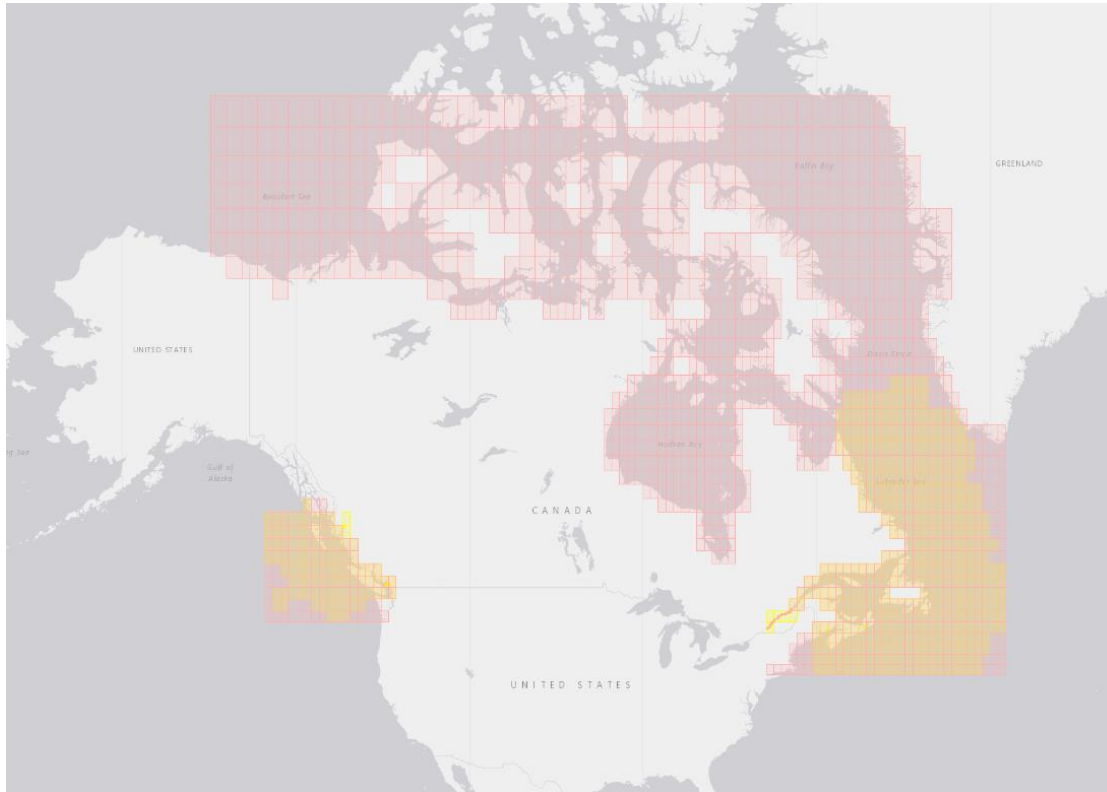
In-house Developed Validation tools

- Virtual PRIMAR Network (VPN) for data transfer and data management
 - S58 Upload Checks performed during the upload of data
- Validation Report Checker contains all the functionality for ENC Validation
 - Checking of validation logs from dKart Inspector and ENC Analyzer
 - Overlap Checker for overlapping candidates
 - Consistency checker for horizontal and vertical ENC consistency
 - S58 Upload Checks performed during the upload of data
 - ISO8211 to text converts EN/ER file to readable format
- S57 Advisor (Errors database) containing error/warnings discovered from validation tools



PRIMAR S-100 Service

- The PRIMAR S-100 Service was launched July 2020
- 2500 S-102 / S-111 datasets from CHS and 87 S-102 datasets from NHS.
- Encrypted by S-100 part 15
- Automatic upload through CARIS cloud or manual through PRIMAR VPN
- Push of data through the PRIMAR Remote Update Protocol



PRIMAR Training Portal



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ACHIEVE YOUR GOALS

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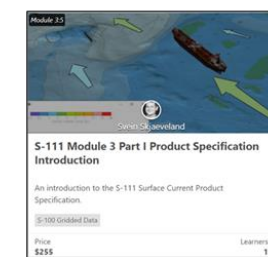
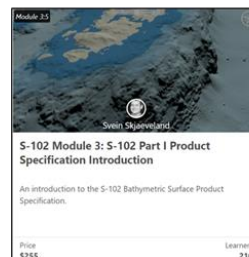
Join us today and check some of the courses below

PRIMAR E- Learning Status

Launch of PRIMAR Learnworlds training portal June 2021.

- Current modules
 - 6 modules S-100/S-101 (2021)
 - S-100: Data Model, IHO Registry and Part 15 Data Protection.
 - S-101 General, Data Quality, Conversion Challenges.
 - 8 modules S-100/S-102/S-111 (2022)
 - S-100: Part 8 Imagery and Gridded Data, Part 10c HDF5 Data Model.
 - S-102 Product Specification, Data Encoding Format, Portrayal.
 - S-111 Product Specification, Data Encoding Format, Portrayal.

- High usage rate
- S-104 modules being developed.



S-57 / S-101 Dual Fuel Service

- S-100 program initiated in 2018
- Develop support for S-100 data model in PRIMAR services and functionality
- Establish dual-fuel S-57 & S-101 distribution
- Online HO services for QC and Data Management support S-100/S-101
- Provide S-101 testdata and dual-fuel service interface to manufacturers developing support for IHO S-100/S-101 standards
- Value
 - Feedback to IHO WG on S-100 standards
 - Testing of S-100/S-101 service elements towards PRIMAR member states and distributors
 - Trial dual-fuel S-57/S-101 distribution service
 - Harmonised S-100 transition plan

S-100e5 Service Upgrade

- Upgrade of PRIMAR services
- Triple services
 - o S-63
 - o S-100e4
 - o S-100e5
- Provide support to everyone implementing S-100e5

PRIMAR Conversion Task Force Project



- Task force to evaluate options and tools and provide guidance to Member States and IHO Working Groups
- Test conversion and validation for:
 - S-57 to S-101
 - S-101 to S-57
- Establish data conversion and validation guidelines and establish forum for exchange of experiences
- Identify resource requirements and data conversion/dual-fuel production strategies
- Improved commercial software and functionality for data conversion and validation



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PRIMAR Chart Catalogue-Publications

Search for product ID, title, location or country

Arctic Ocean

GREENLAND

SWALBARD

UNITED STATES

ATLANTIC OCEAN

FRANCE

GERMANY

ITALY

NETHERLANDS

UNITED KINGDOM

NORWAY

FINLAND

RUSSIA

ALGERIA

LIBYA

EGYPT

SAUDI ARABIA

INDIA

MYANMAR (BURMA)

CHINA

IRAN

UKRAINE

KAZAKHSTAN

MONGOLIA

ETHIOPIA

TANZANIA

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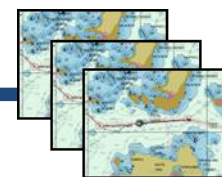
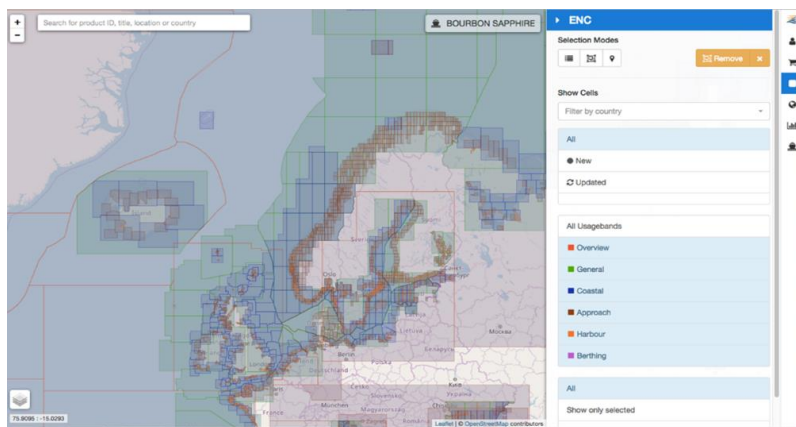
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PRIMAR Navy / Governmental Supplier Services

- Supply ENCs to your Navy / Governmental users.
- Access to PRIMAR global ENC database.
- Easy operation from the PRIMAR Chart Catalogue.
Register and add users, Create ENC portfolios, Activate area of interest, View orders/reports, View licensee status, Download ENC updates and permit files etc.



**Navy
users**

PRIMAR 2023 focus

- Further development of the S-100 Service.
 - S-104
 - S-124
 - S-128
- Expansion of the PRIMAR Training Portal
- S-101 Conversion Task Force project
- SECOM E-Navigation project
- Upgrade of the Chart Catalogue
- Testing and update of the S-101/S-57 dual fuel service

Thank you for your attention
Questions?

www.primar.org