

PRIMAR 2021 – WENDWG12

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PRIMAR's Vision

IN ORDER TO ENHANCE SAFETY AT SEA AND PROTECT THE MARITIME ENVIRONMENT, PRIMAR'S VISION IS TO BE THE MOST EFFICIENT MODEL FOR THE PROVISION OF ENC SERVICES AND MARITIME GEOSPATIAL DATA WORLDWIDE.



Targets for 2021

- Continuously provide the world's most efficient ENC quality control and validation services
- To increase knowledge and conduct training in ENC validation and quality control for member nations
- To conduct S-100 training / Capacity Building



Targets for 2021

- To increase ENC sales, maintain cost control and financial sustainability
- To further develop and improve the PRIMAR technology and services
- Further development of the S-100 Service
- Development of the publication service.
- Launch of upgraded PRIMAR web page



ENC QC AND VALIDATION SERVICES

The PRIMAR ENC validation statistics for 2021 are as follows:

#								
	New ENC	New Editions	Reissue	Cancel cell	Updates			
	1 169	7351	1085	429	24381			

The below table shows the development of the PRIMAR ENC database during 2021:

Date	Total no of ENCs	Overview	General	Coastal	Approach	Harbor	Berthing	Updates
01.01.21	16634	178	634	2509	5147	6249	1917	47705
01.07.21	17158	180	648	2572	5325	6488	1945	48707
31.12.21	17803	180	665	2681	5455	6815	2007	43885



ENC QC AND VALIDATION SERVICES

 PAC 24 approved to introduce KPIs for ENC validation in PRIMAR. The following validation completion times was achieved in 2021:

Type of data	Validation KPI (95%)	2020 Average Achieved
ENC Update	1 day	9 hrs.
ENC New Edition	2 days	7 hrs.
New ENC	3 days	10 hrs.

PRIMAR RENC value chain



Albania Croatia Estonia Finland France

Georgia PRIMAR Iran RENC Latvia MEMBERS

Montenegro

Mozambique Norway

Poland Sweden Russia Ukraine

Vietnam (VHO)

Vietnam (VMS-N)

Canada
China
India
Indonesia
EAHC
MSS
Japan
Korea
PRD ENC
Singapore

NTOU (Taiwan)

ALL IC-ENC RENC DATA

> 60 different official ENC providers

PRIMAR
ENC
Database
10 Governmental Distributors
> 17 000
ENCS
10 Navy Suppliers

Commercial users

Governmental users

Navy users

>33 000 registered end-users



2021 Capacity Building / training

S-100 / S-101 online training course:

Module 1: S-100 Overview:

History, Objectives, Content, Benefits and Maintenance.

Module 2: IHO Registry:

Structure, Content, Registers and Testbeds.

Module 3: S-101 General Overview:

Content, Features, Attributes, Relationships, Geometry, DCEG and Encoding.

Module 4: S-101 Data Quality:

CATZOC and Quality of Bathymetric Data, Horizontal/vertical uncertainty and Visualization.

Module 5: S-101 Conversion and Challenges:

Features, Attributes, Enumeration, Geometry and Topology.

Module 6: S-100 Part 15 Data Protection:

Encryption, Signing, Certificates and Public/Private key.



2021 Capacity Building / training

- S-100 / S-101 online training course:
 - 6 modules 12 hrs. duration.
 - 2021: 266 participants
 - 132 completed courses
 - 38 different hydrographic offices
 - 5 different organizations



2021 Financial Issues

- Total revenue of ENC sales in 2021 had a 19,5% increase compared with 2020.
- Financial surplus (excess of cost coverage after regular royalty payments) of approximately \$1.1M.
 - Giving room for several projects as well as extra royalty payments to member nations.

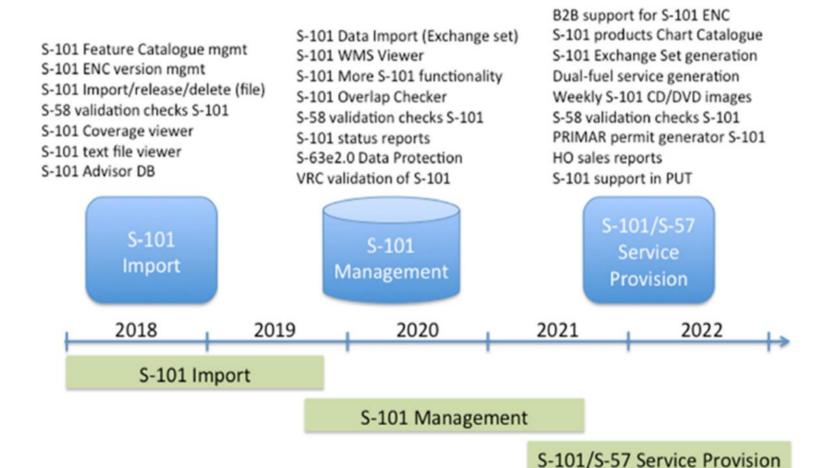




- Development of S-101 Service.
- Update and further development of S-100
 Service.
- Development of Publication Service.

PRIMAR S-101 Project Status





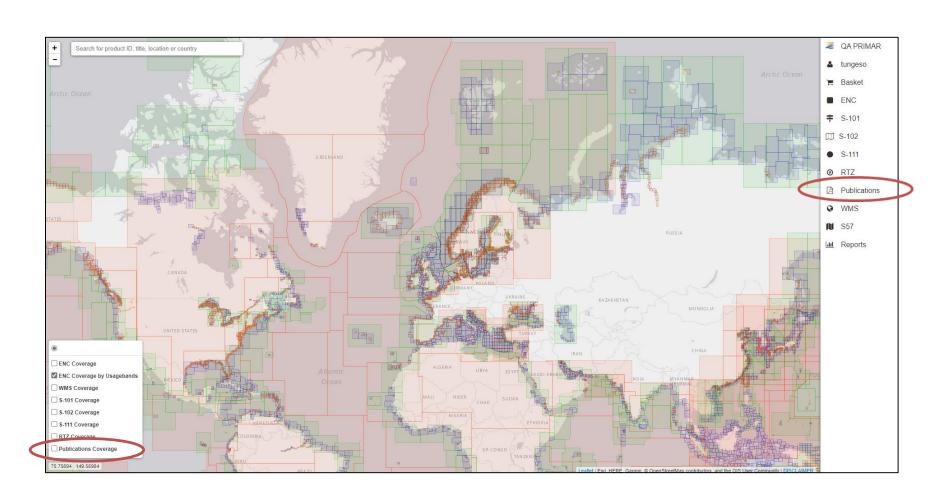


PRIMAR S-101 Project Status

- Focus in 2021 has been on:
 - Development of Validation Report Checker
 - Quality control with WMS view of data
 - -S-100 part 15 signature service to HO's
 - Chart Catalogue S-101 value added services

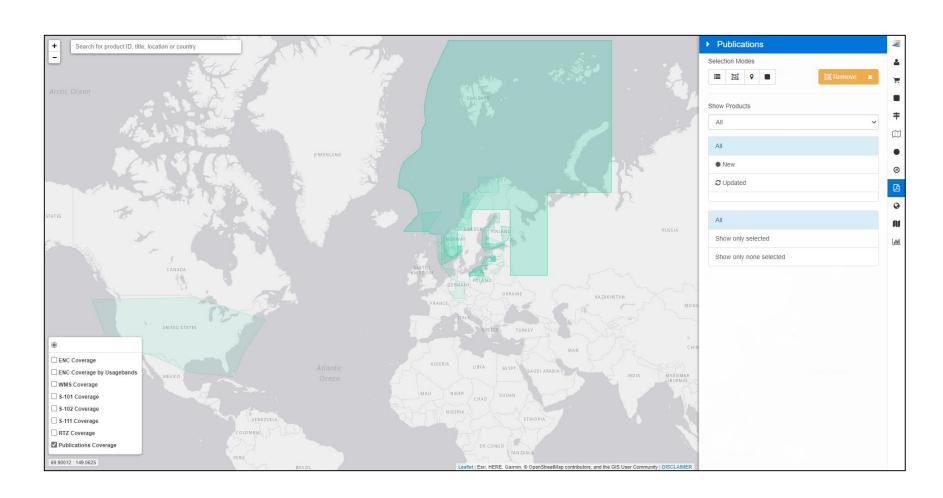


PRIMAR Chart Catalogue – Publications



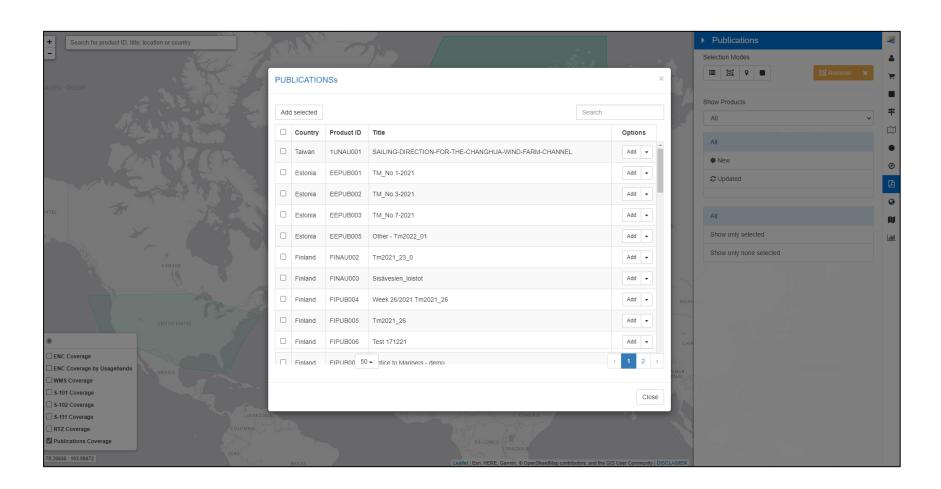


PRIMAR Chart Catalogue-Publications





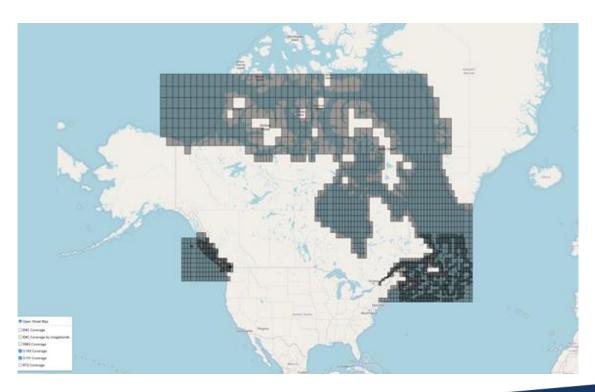
Publication selection list





PRIMAR S-100 Service

- The S-100 Service was launched July 2020
- Contains more that 2500 S-102 / S-111 from CHS
- Encrypted by S-100 part 15





PRIMAR Targets for 2022

- Launch of Nautical Publication Service
- Development of S-100 Service.
 - -S-104
 - -S-124
- Expansion of PRIMAR Training Portal
- S-101 Conversion Task Force project
- SECOM E-Navigation project
- Upgrade of Chart Catalogue



Thank you for your attention Questions?

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