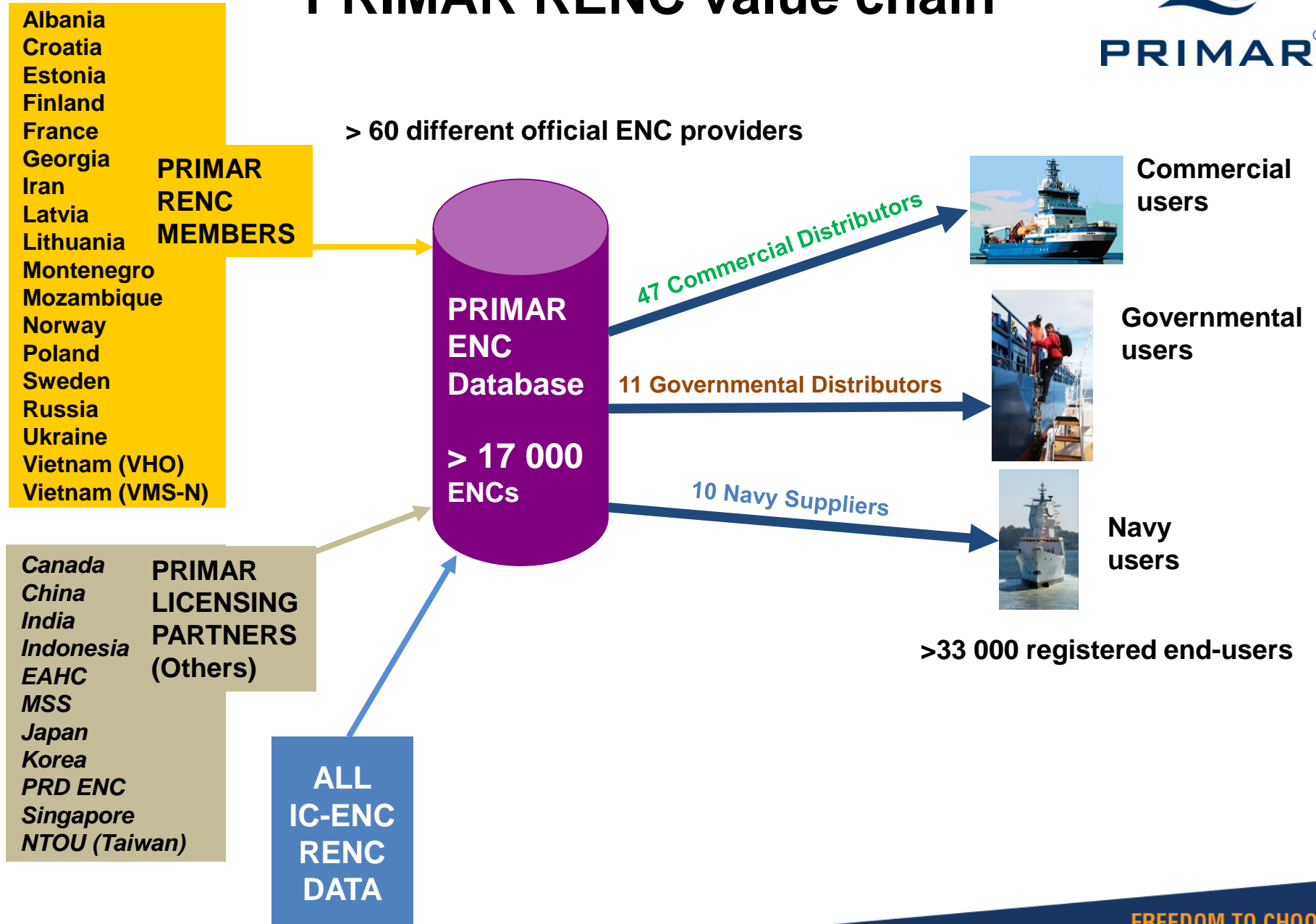


# **PRIMAR updates MBSHC 23**

# PRIMAR RENC value chain



# PRIMAR Training Portal



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## PRIMAR Training Portal

Join us today and check some of the courses below

# 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

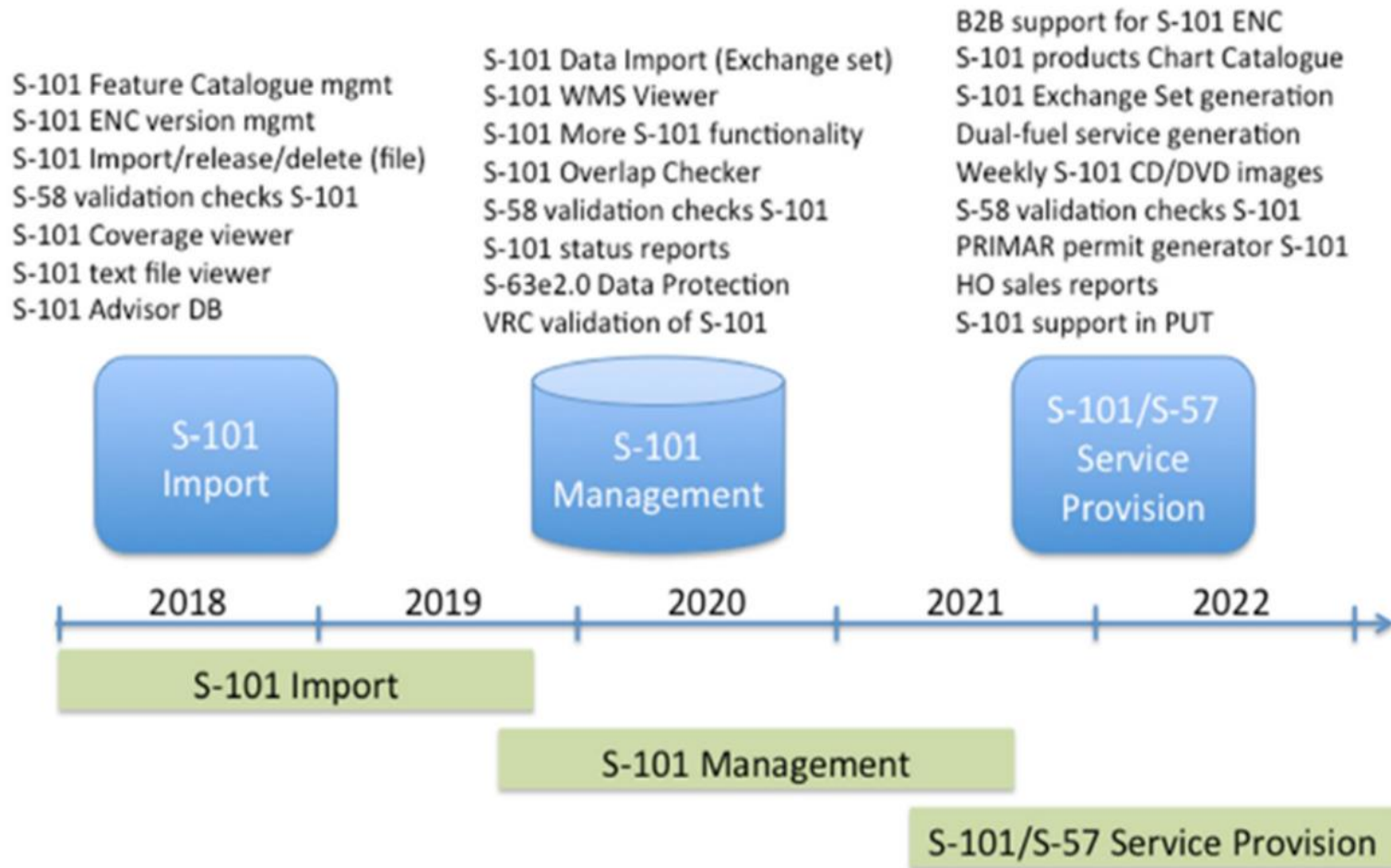
- Total revenue of ENC sales in 2021 had a 19,5% increase compared with 2020.
- Financial surplus (excess of cost coverage after regular royalty payments) of approximately \$1.1M.
  - Giving room for several projects as well as extra royalty payments to member nations.

# 2021 Technology Development



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

# PRIMAR S-101 Project Status

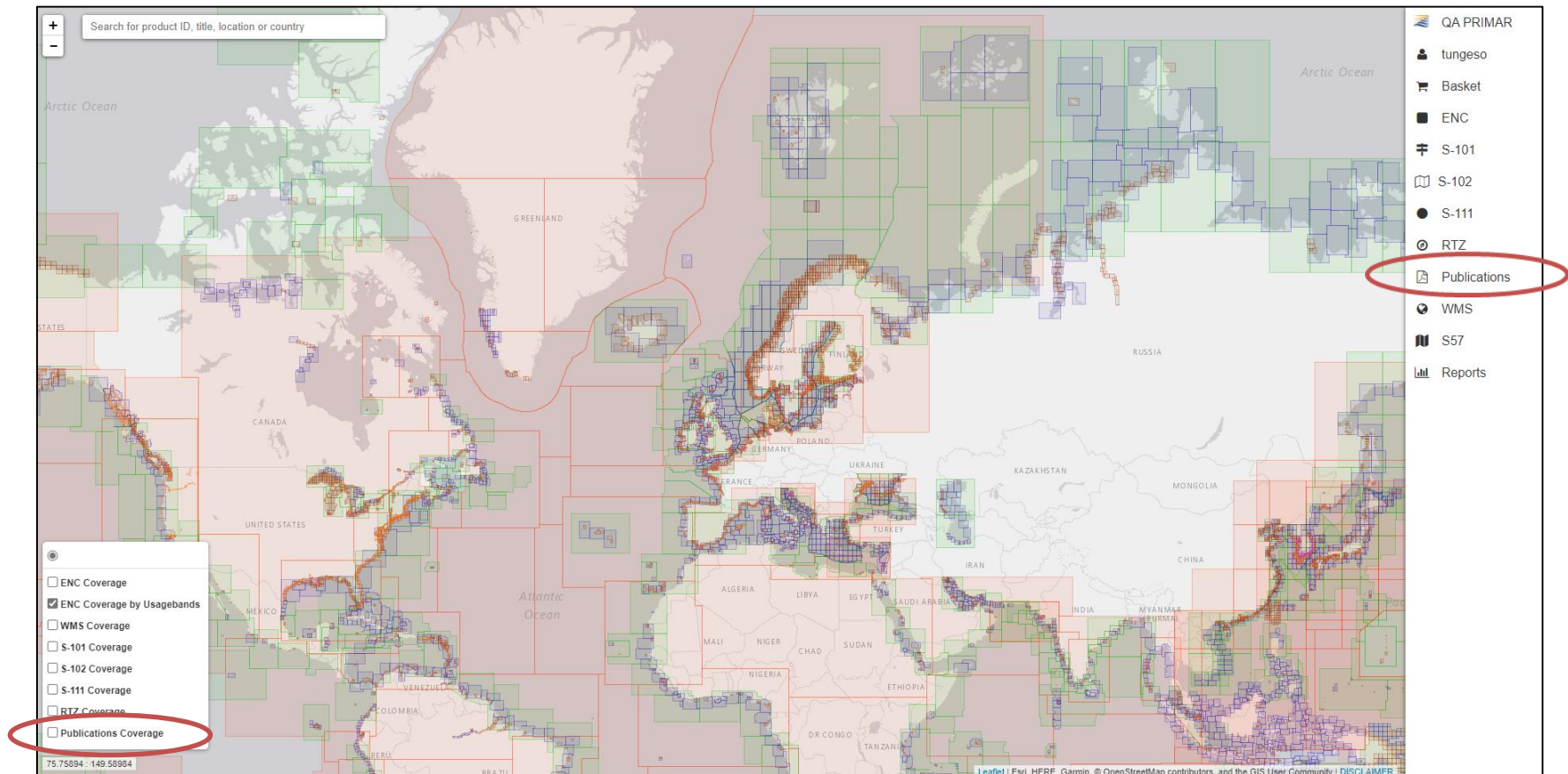




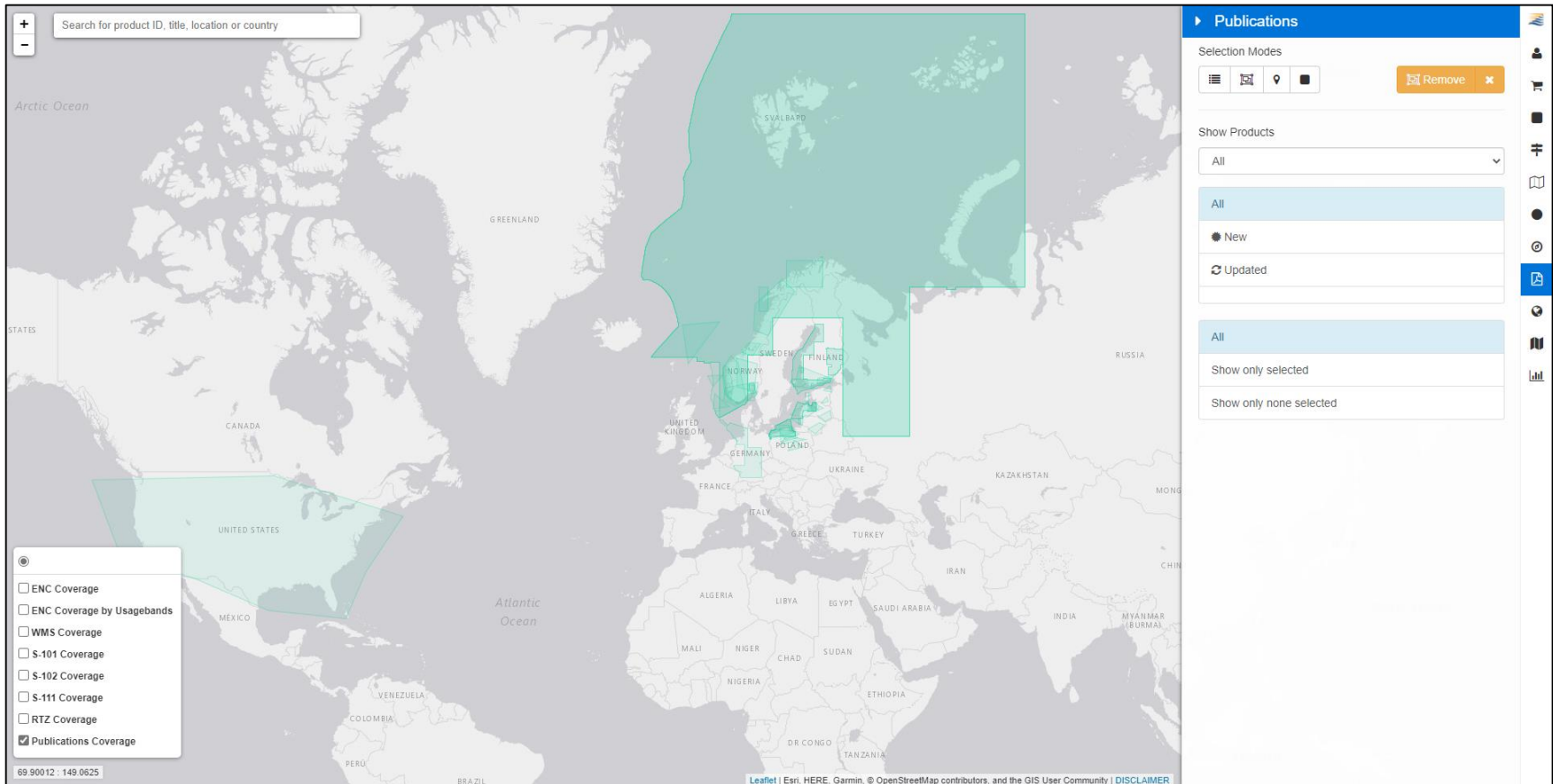
# PRIMAR S-101 Project Status

- 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

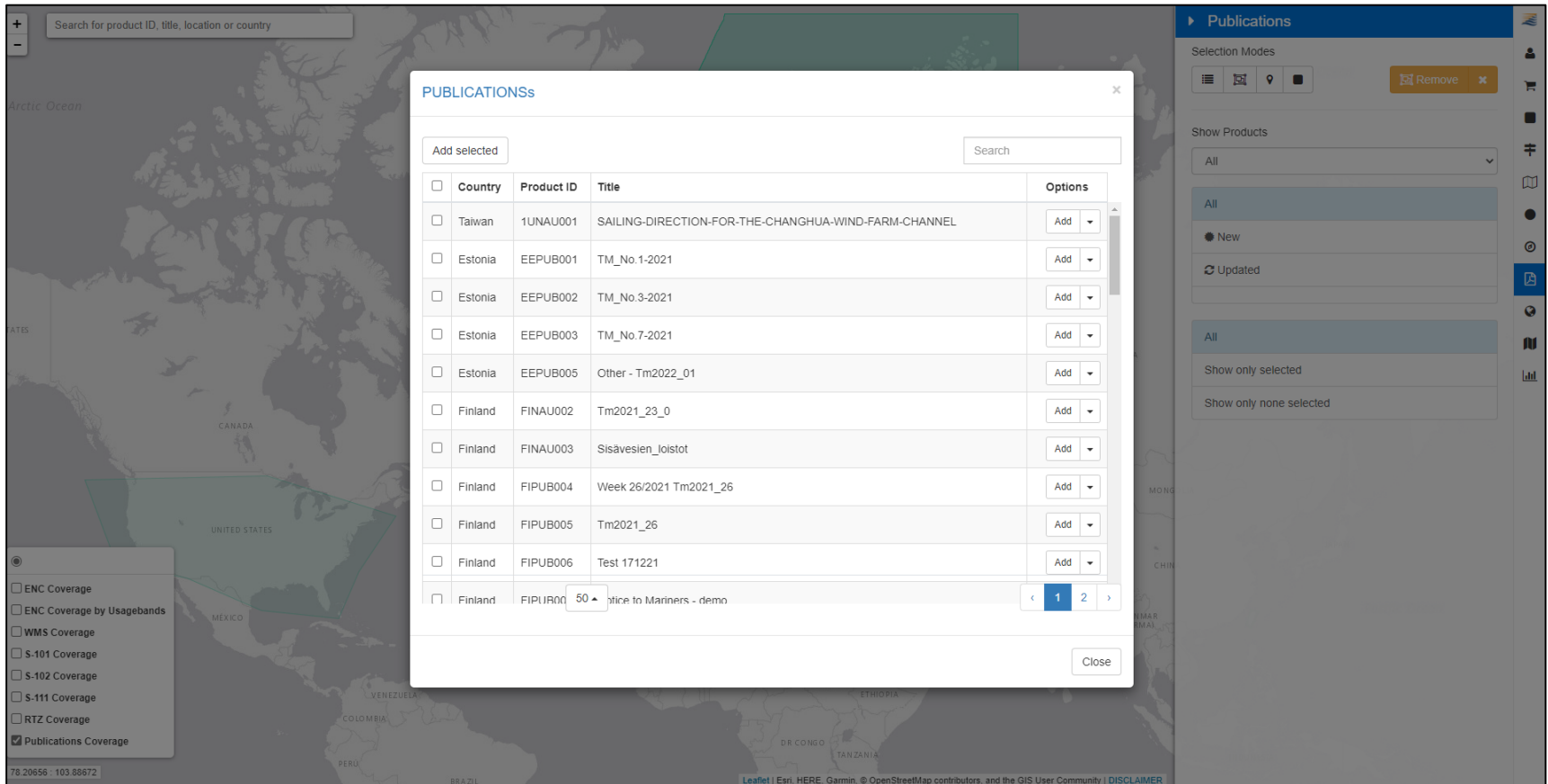


# PRIMAR Chart Catalogue-Publications



The screenshot displays the PRIMAR Chart Catalogue-Publications web application. The main map area shows a world map with several regions highlighted in green, indicating chart coverage. A search bar at the top left allows users to search for product ID, title, location, or country. A legend in the bottom left corner lists various coverage types: ENC Coverage, ENC Coverage by Usagebands, WMS Coverage, S-101 Coverage, S-102 Coverage, S-111 Coverage, RTZ Coverage, and Publications Coverage (which is checked). The right sidebar, titled 'Publications', contains a 'Selection Modes' section with icons for list, map, location, and a 'Remove' button. Below this is a 'Show Products' section with a dropdown menu set to 'All'. Further down, there are buttons for 'All', 'New', and 'Updated'. At the bottom of the sidebar, there are buttons for 'Show only selected' and 'Show only none selected'. The map at the bottom shows a world map with various countries labeled, including Greenland, Canada, United States, Mexico, Venezuela, Colombia, Peru, Brazil, France, United Kingdom, Germany, Poland, Italy, Greece, Turkey, Ukraine, Kazakhstan, Mongolia, China, India, Myanmar, Thailand, and others. The map is powered by Leaflet, Esri, HERE, Garmin, OpenStreetMap contributors, and the GIS User Community.

# Publication selection list



Search for product ID, title, location or country

**PUBLICATIONSs**

Add selected Search

<input type="checkbox"/>	Country	Product ID	Title	Options
<input type="checkbox"/>	Taiwan	1UNAU001	SAILING-DIRECTION-FOR-THE-CHANGHUA-WIND-FARM-CHANNEL	Add
<input type="checkbox"/>	Estonia	EEPUB001	TM_No.1-2021	Add
<input type="checkbox"/>	Estonia	EEPUB002	TM_No.3-2021	Add
<input type="checkbox"/>	Estonia	EEPUB003	TM_No.7-2021	Add
<input type="checkbox"/>	Estonia	EEPUB005	Other - Tm2022_01	Add
<input type="checkbox"/>	Finland	FINAU002	Tm2021_23_0	Add
<input type="checkbox"/>	Finland	FINAU003	Sisävesien_loistot	Add
<input type="checkbox"/>	Finland	FIPUB004	Week 26/2021 Tm2021_26	Add
<input type="checkbox"/>	Finland	FIPUB005	Tm2021_26	Add
<input type="checkbox"/>	Finland	FIPUB006	Test 171221	Add
<input type="checkbox"/>	Finland	FIPUB007	Notice to Mariners - demo	Add

ENC Coverage  
ENC Coverage by Usagebands  
WMS Coverage  
S-101 Coverage  
S-102 Coverage  
S-111 Coverage  
RTZ Coverage  
☒ Publications Coverage

78.20656 - 103.88672

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**Publications**

Selection Modes

Show Products

All

New

Updated

All

Show only selected

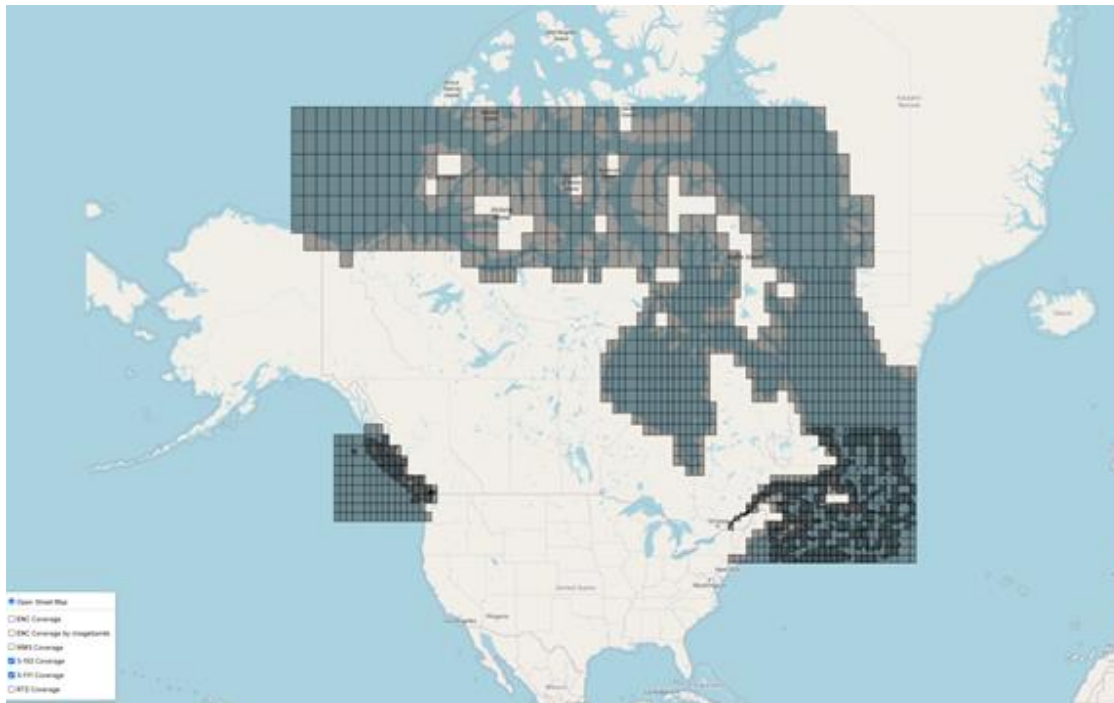
Show only none selected

Remove

Close

# 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
- Finish the S-101 service development



**Thank you for your attention**  
**Questions?**

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