



PRIMAR[®]

PRIMAR S-102 PROJECT

Operated by the Norwegian Hydrographic Service

FREEDOM TO CHOOSE

PRIMAR S-102 project

- Expanding the PRIMAR ENC service with distribution, sales and customer support for bathymetric data on the S-102 format.
- Protecting the S-102 service with the new edition of IHO S-63 for access control and authentication.
- Allowing a Hydrographic Office to distribute its S-102 data to governmental and commercial end-users through PRIMAR.
- Testing of data import and distribution module ongoing.
- Development and testing of in-house viewer and validation tool ongoing.
- Cooperation and coordination with HOs, system manufacturers and end-users.

PRIMAR S-102* Pilot Project

Project: Pilot's test S-102

- Coordinated by PRIMAR
- Started October 2014

Participants:

- PRIMAR
- Norwegian Hydrographic Service
- The Norwegian Coastal Administration
- Norwegian Navy (FMGT)
- The Swedish Maritime Administration
- System manufacturers
- Observers: Pilots in Denmark

**S-102 : IHO Bathymetric Surface Product Specification*

PRIMAR S-102* Pilot Project

Goal:

- Test production of S-102 data in HO's.
- Test and identify distribution solutions for S-102.
- Provide feedback to system manufacturers from end-users.
- Test the implementation of S-102 in ECDIS/ECS systems.
- Provide feedback on the standard to IHO working groups.

Status:

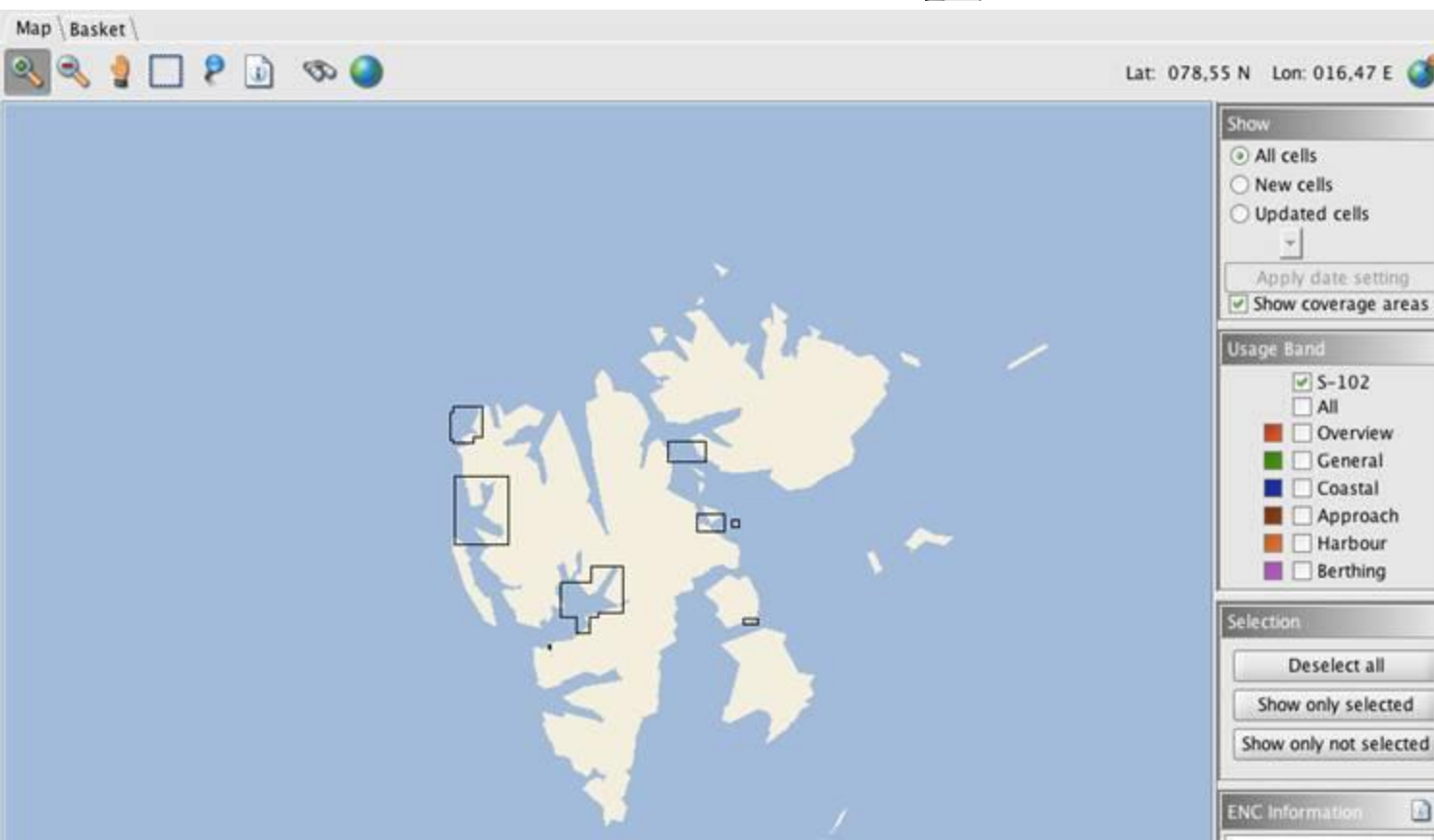
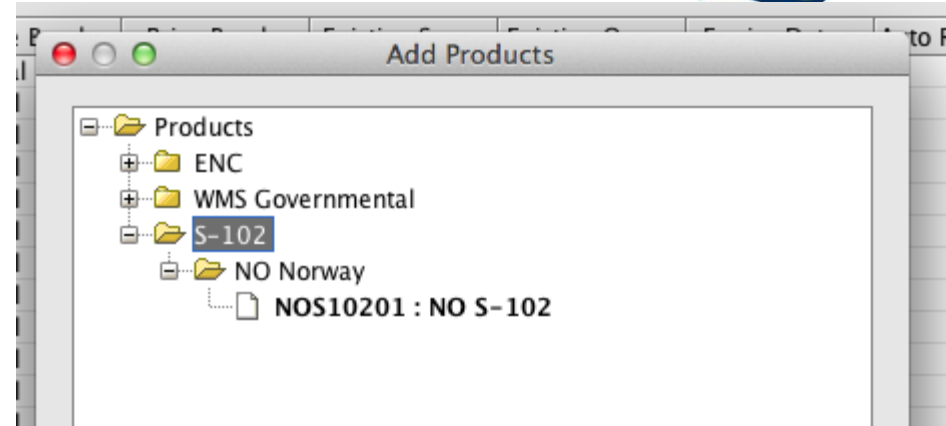
- Areas of interest identified by the Norwegian Pilots, Norwegian Coastal Administration and the Norwegian Navy.
- Norwegian Hydrographic Service have started test production of S-102 data.
- Initial input provided to IHO working groups (TSMAD).
- Several meetings have been arranged between all stakeholders and system manufacturers.

*S-102 : IHO Bathymetric Surface Product Specification



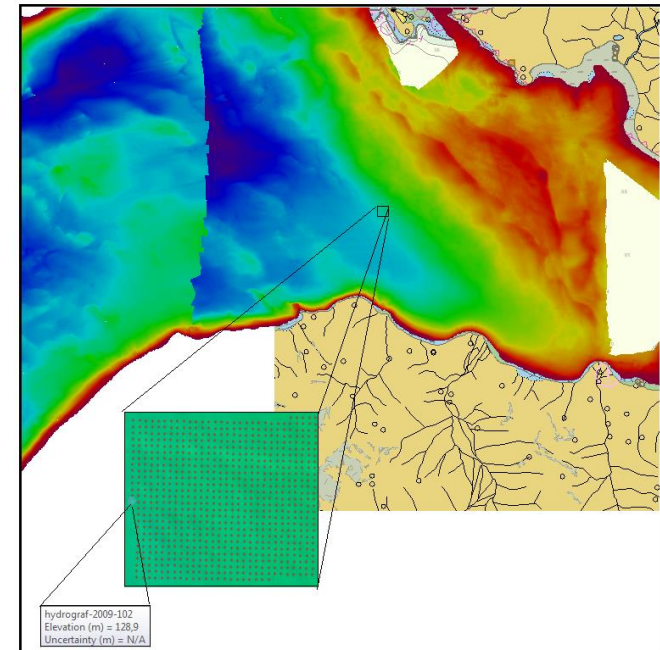
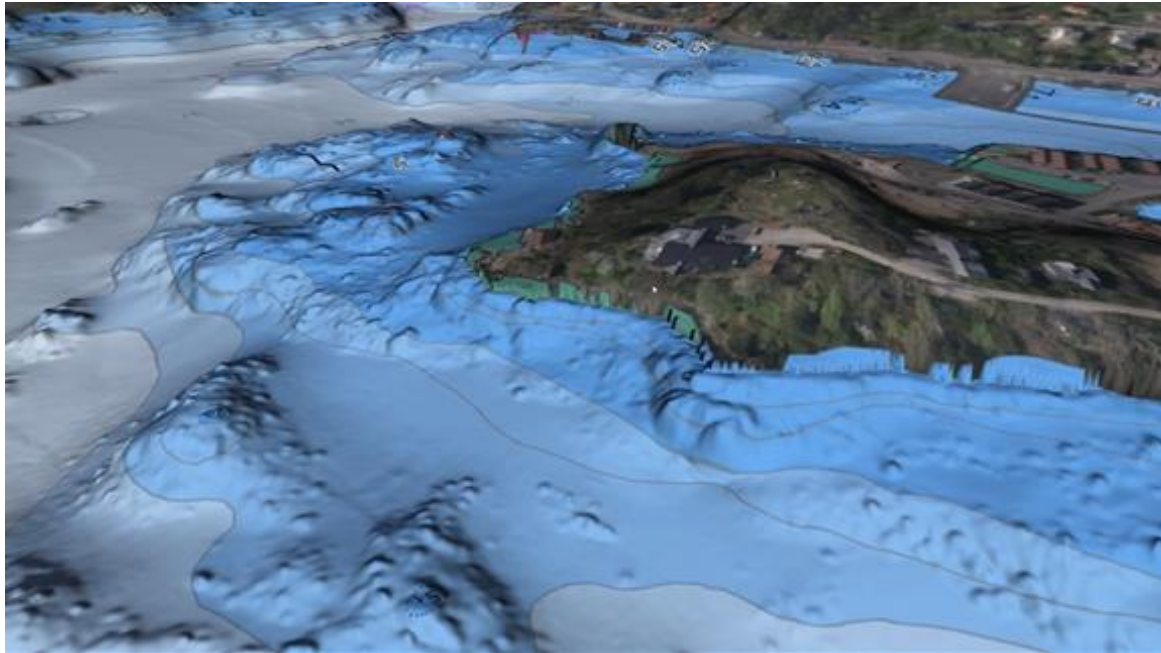
PRIMAR S-102 Service: Development Status

- S-102 data in the PRIMAR chart catalogue.
- Testing of upload, validation, viewing, encryption and distribution.



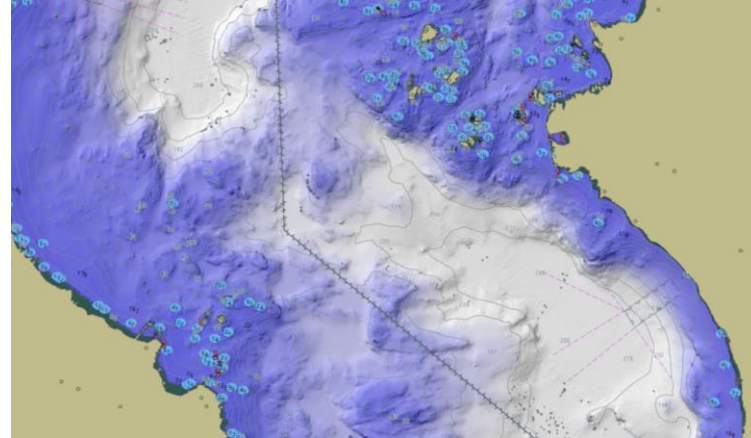
S-102 Product

- **Main purpose:** To support safe navigation as a supplementary aid.
- **Product:** High resolution gridded bathymetry – bathymetric model.
- **Usage:** Navigational and planning purposes
(safe depth, anchorage areas, Under Keel Clearance)
- **Innovative:** Allows ECDIS to calculate contour intervals on the fly.

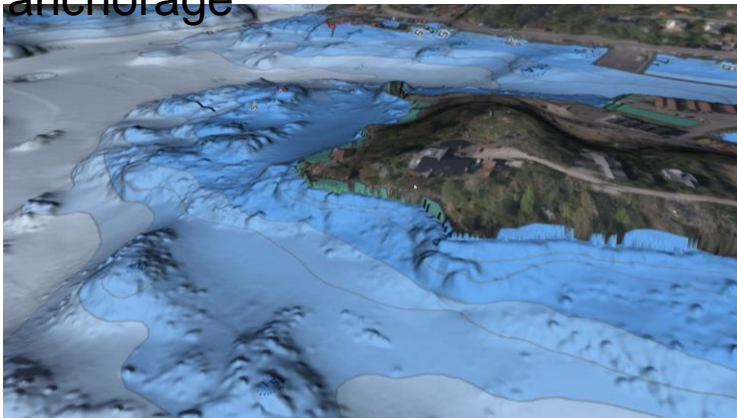


S-102 project – areas for testing

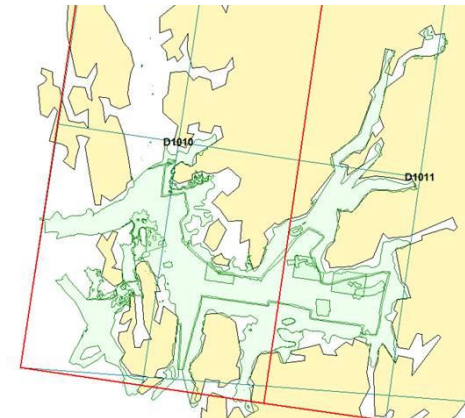
Norwegian Coastal Administration: Vanylvsfjorden for Stadt Skips-tunnel



Norwegian pilots: Different ports and areas for anchorage



Norwegian Navy: Exercise area south of Bergen



PRIMAR S-102 project



PRIMAR S-102 viewer: S-102 data in combination with ENC

