

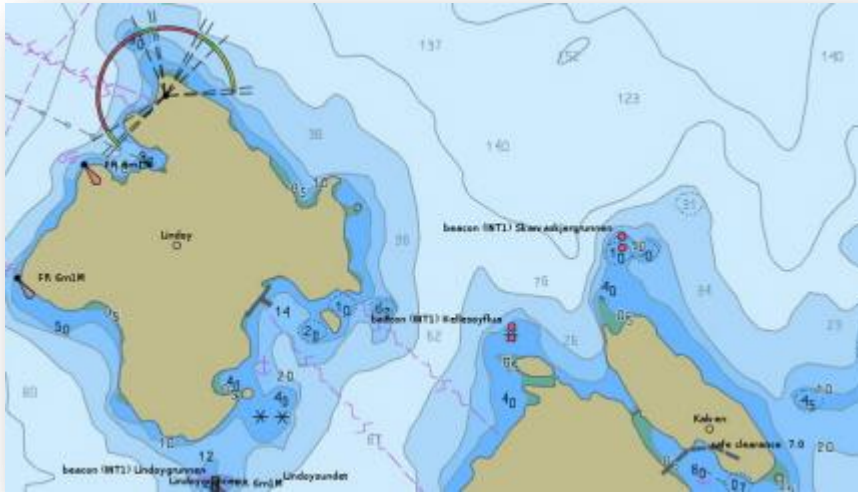
PRIMAR WMS and S-102 distribution

Maritime Geospatial Data

- PRIMAR has:
 - The relevant technology
 - Policies and infrastructure in place
 - A database of spatial data



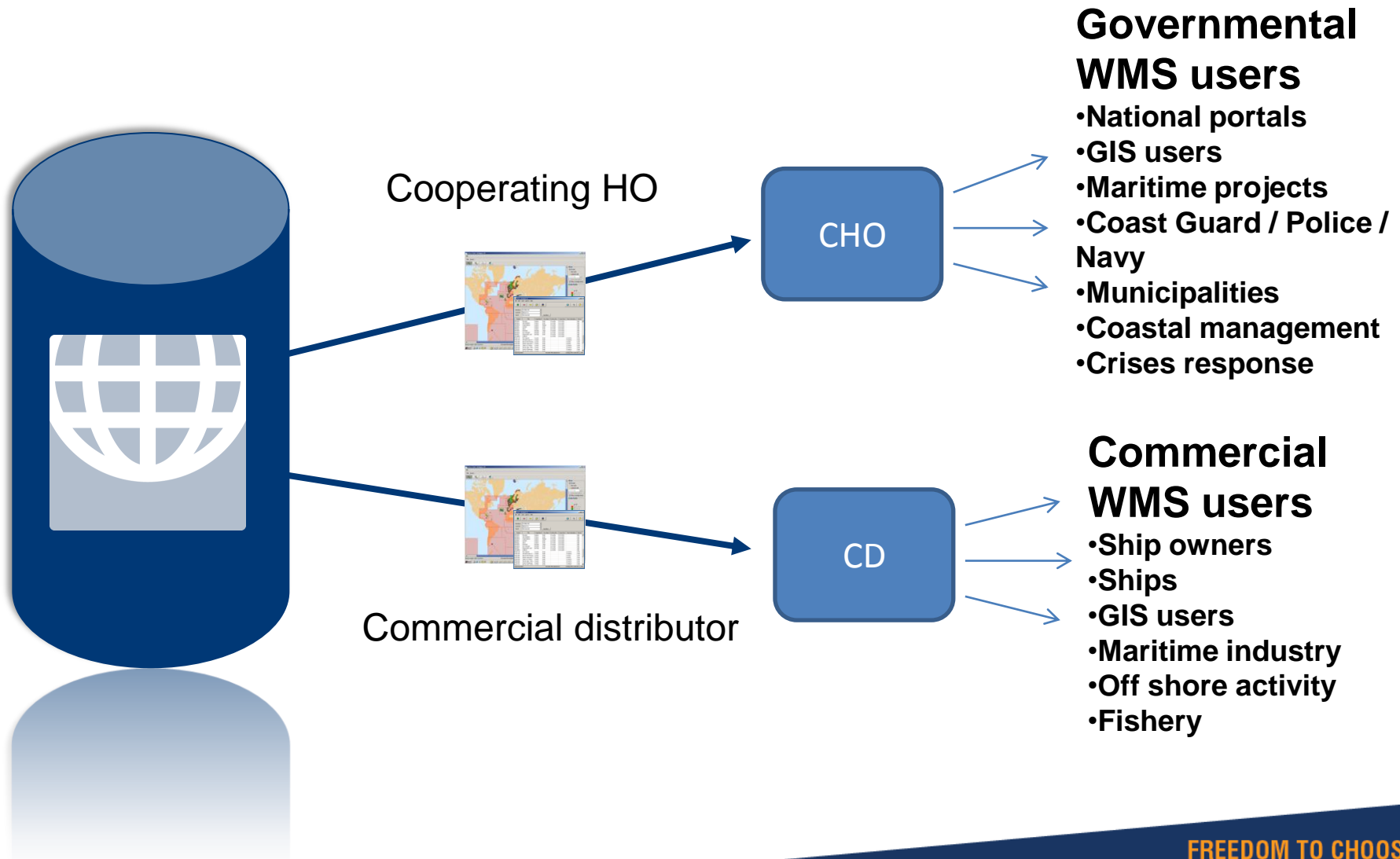
PRIMAR Web Chart Service



PRIMAR WEB CHART SERVICE

- What?
- Why?
- How?
- When?

Freedom to share ENC as WMS





PRIMAR Web Chart Service

X-GIS(3) - Flash

http://xgis.maaamet.ee/xGIS/XGIS

Google

EST ENG

Tuvasta

Kaardirakendus

Maa- ja merealade k

vali maakond

vali ulatus

vali mõõtkava

Objekti info

1/1

Objekt Maa- ja merealade kaardirakendus

Light
EE50820K
FOID{AGEN=870,FIDN=3704823622,FIDS=2}
• Colour: white
• Exhibition condition of light: night light
• Light characteristic: quick-flashing
• Signal group: (3)
• Signal period: 10
• Signal sequence:
00.5+(00.5)+00.5+(00.5)+(07.5)
• Status: permanent
• Scale minimum: 10000
• Source date: 20070228
• Source indication: EE,EE,Reprt,NtM-1.1
Buoy, cardinal
EE50820K
FOID{AGEN=870,FIDN=2074892177,FIDS=1}
• Buoy shape: pillar
• Category of cardinal mark: east cardinal mark
• Colour:

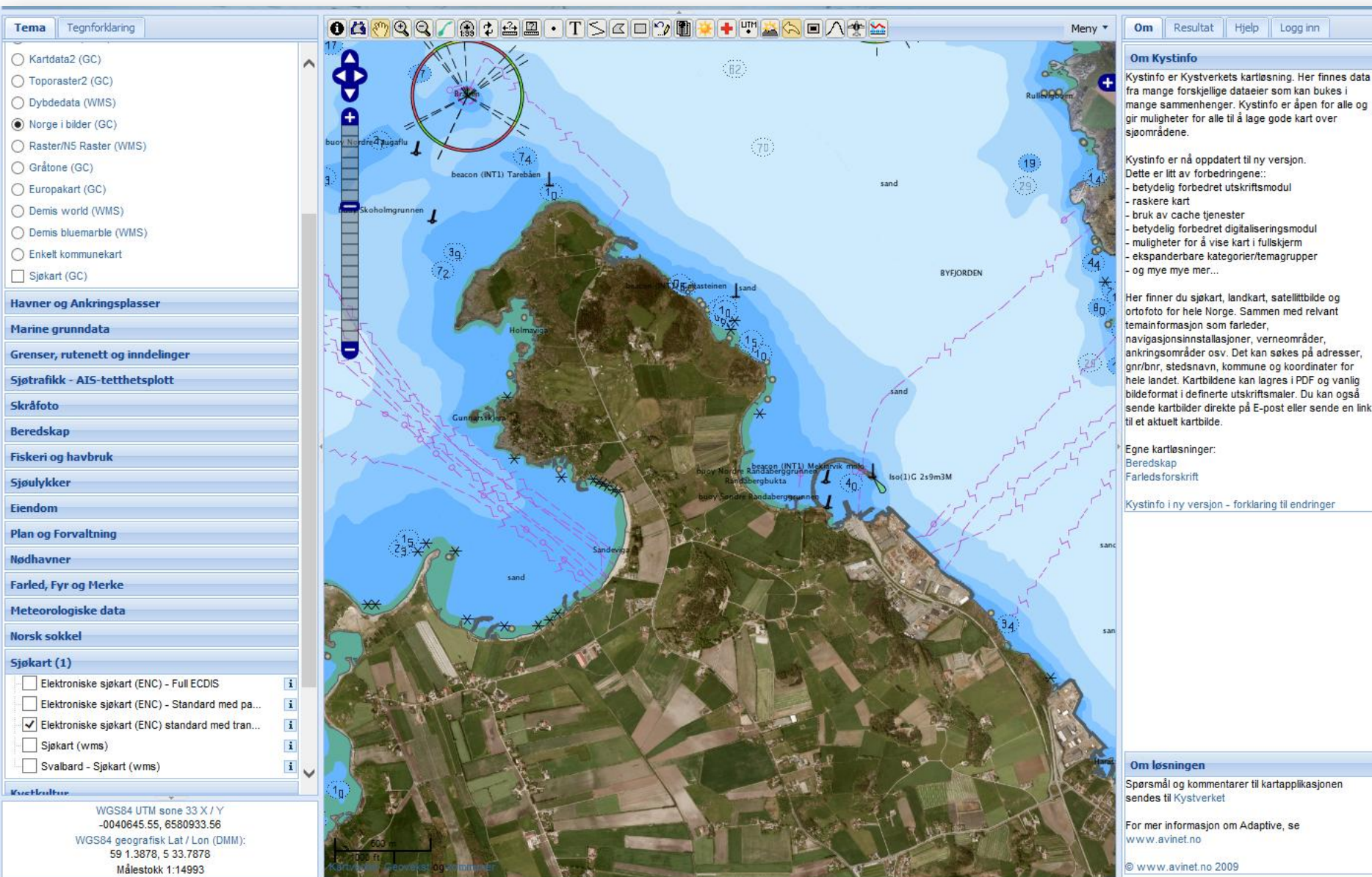
Otsing (0/0)

Trükitised

Maa-amet Veeteede Amet
PRIMAR NAVIGEERIMISEKS MITTE KASUTADA

0 200 400 598m

Süsteemilahendus DATEL AS Mõõtkava: 1:7535



PRIMAR Web Chart Service



Anchorage areas for commercial vessels requiring compulsory Pilotage:

“To be able to manage the anchorage areas, we used ENC data on WMS in conjunction with raster charts on a GIS system to get a better overview of the information needed to support the decision for the best definition of the areas that must be provided for anchoring of vessels along the Norwegian coast. Use of ENCs on ECDIS does not offer the same possibilities with regards to information overlays and data analysis”

***Department for Maritime Traffic,
Norwegian Coastal Administration***

Vessel movement monitoring:

“We see great potential from several perspectives to have a Web Map Service with ENC charts. We have had a number of customers that has expressed their interest in having official charts rather than private charts in a web based service like our Fleet View Online where they can monitor vessels movements and in a near future also run playback of vessels tracks in case of incidents”

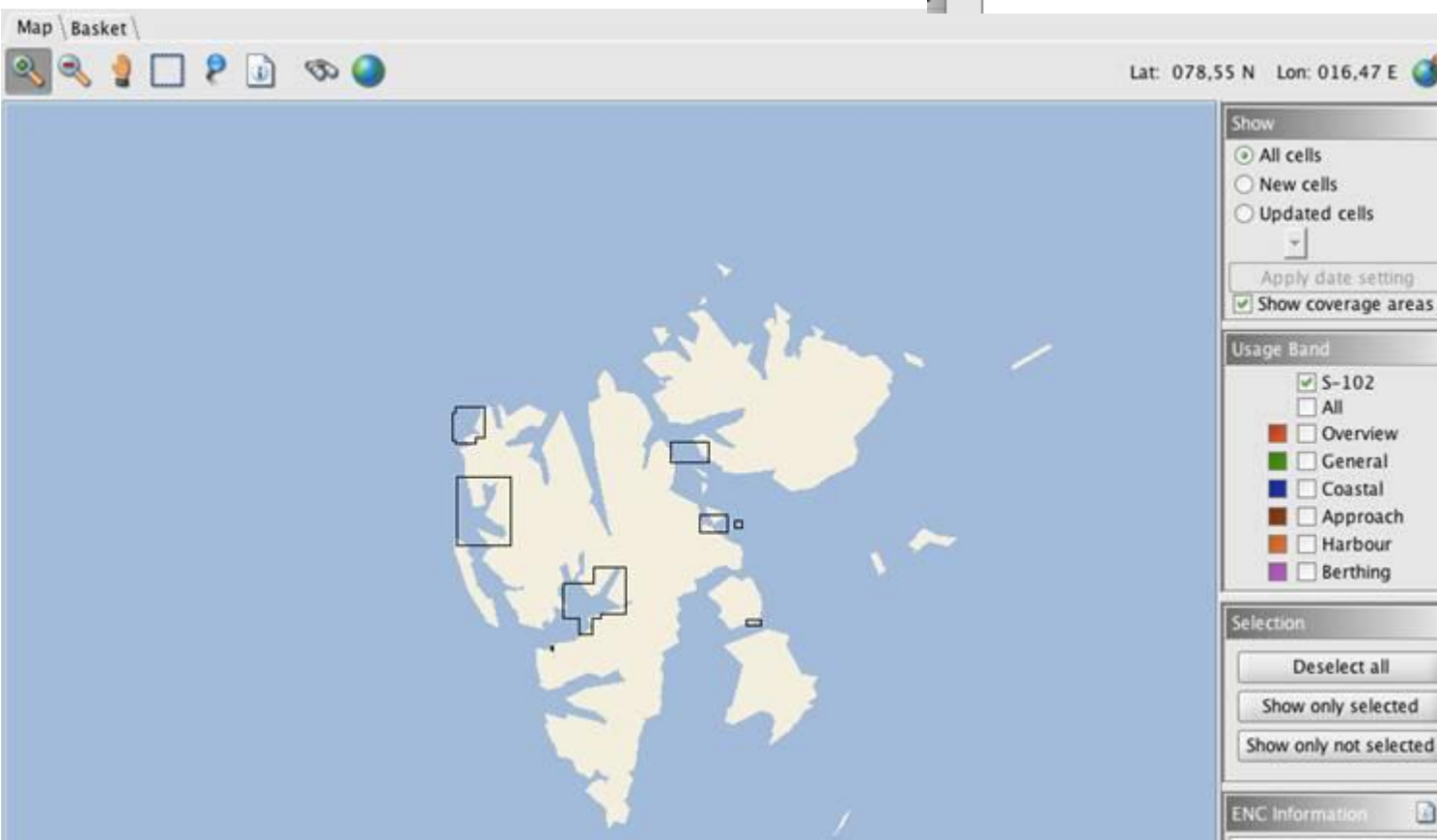
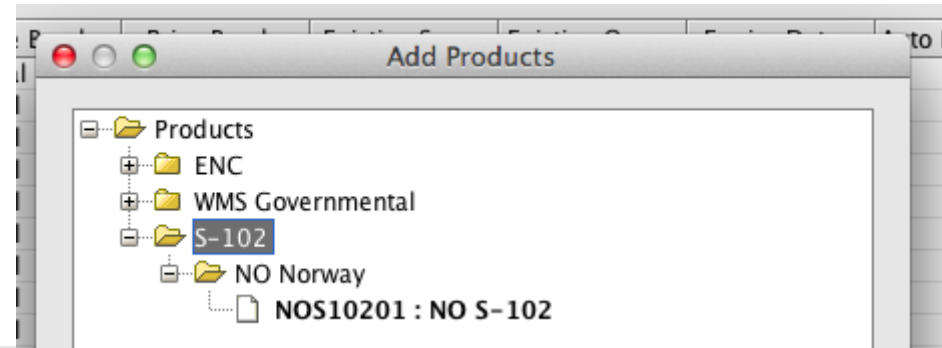
***Potential PRIMAR WMS
Subscriber***

PRIMAR S-102 service

- 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.
- HO set the wholesale price of its S-102 data.

PRIMAR S102 Service: Development Status

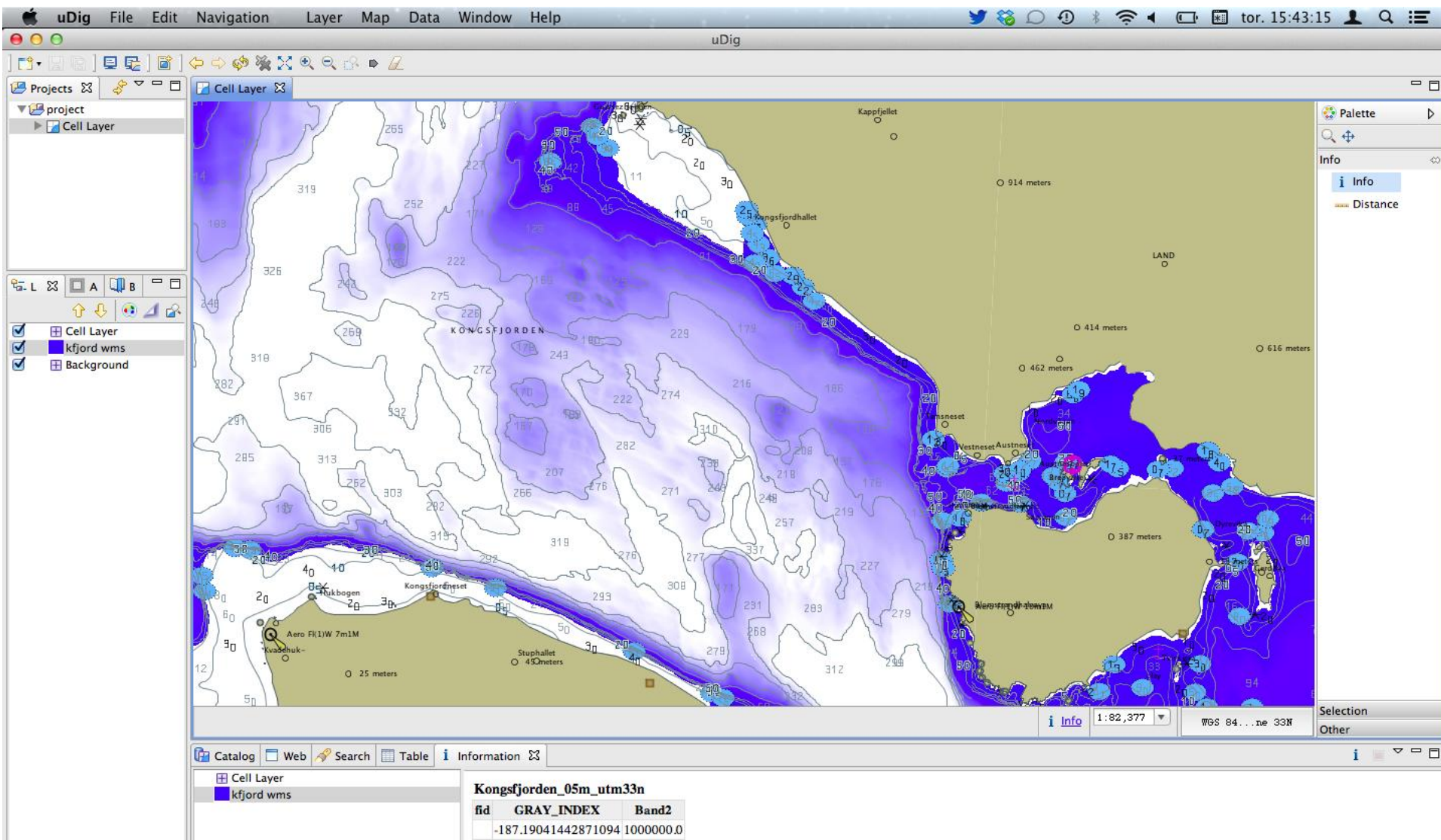
- S-102 data in the chart catalogue.
- Norwegian test data from the Spitsbergen area
- Test data received from other PRIMAR member nations



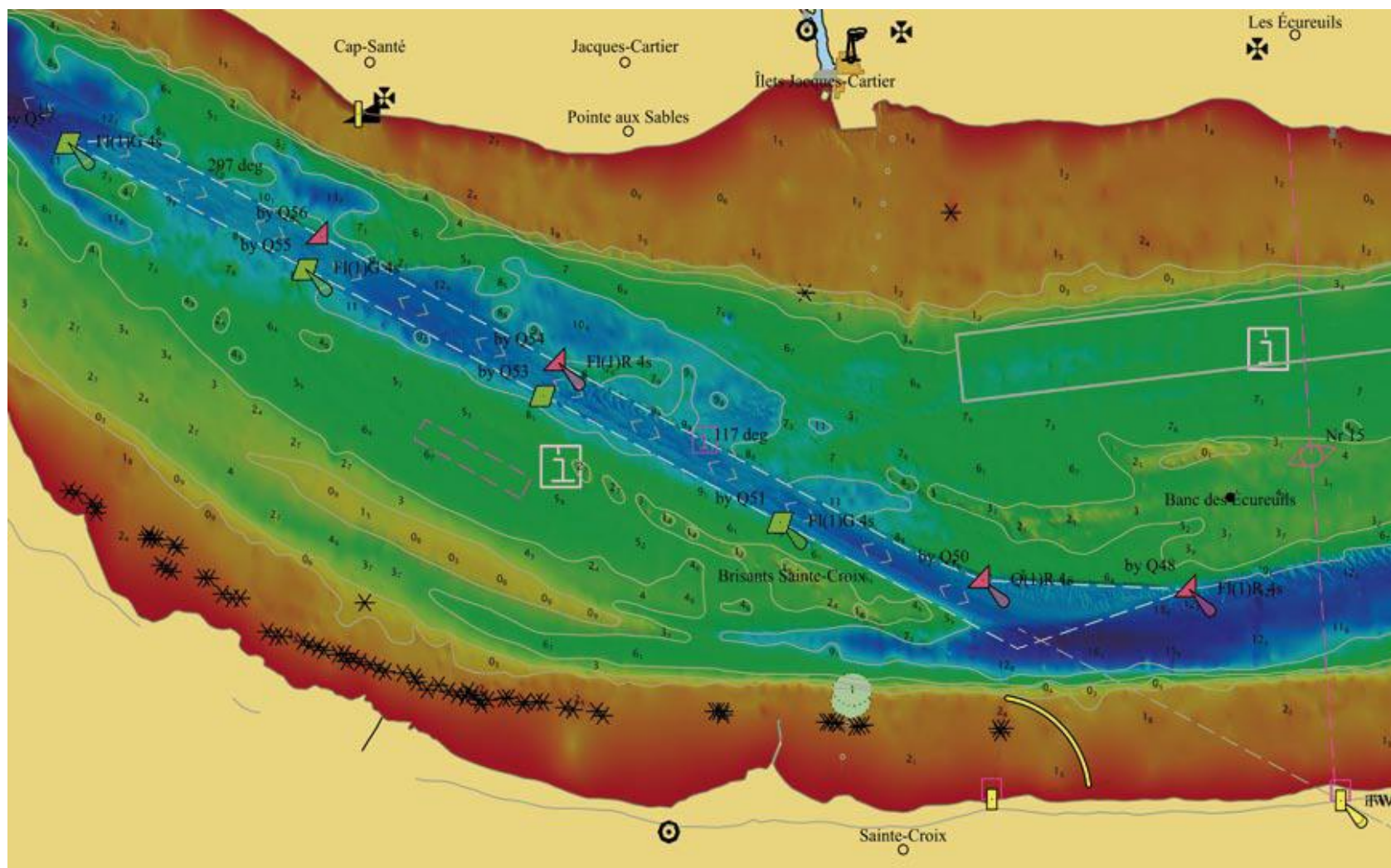
PRIMAR S102 Service: Development Status



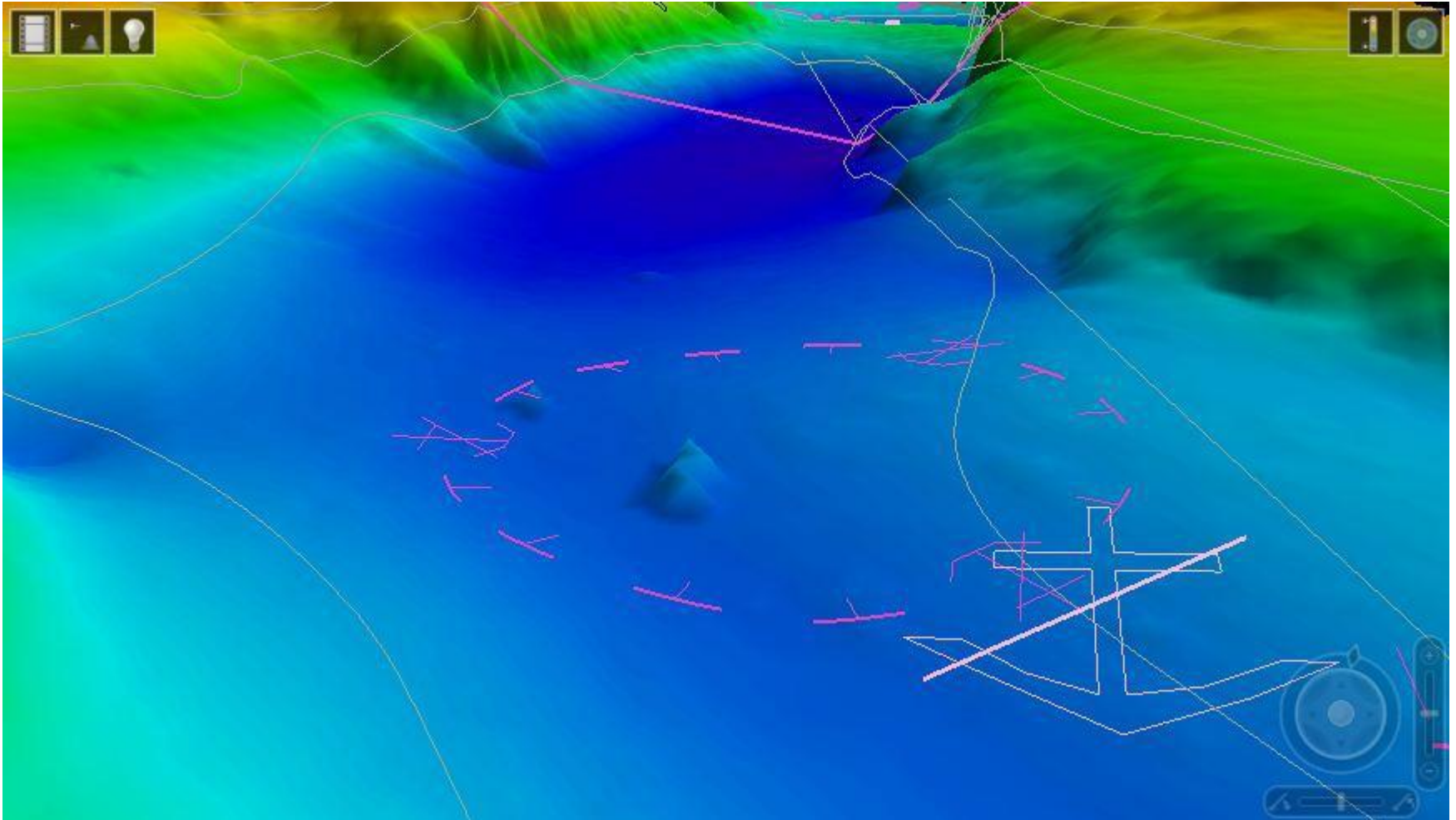
- Norwegian S-102 data from Spitsbergen area as WMS



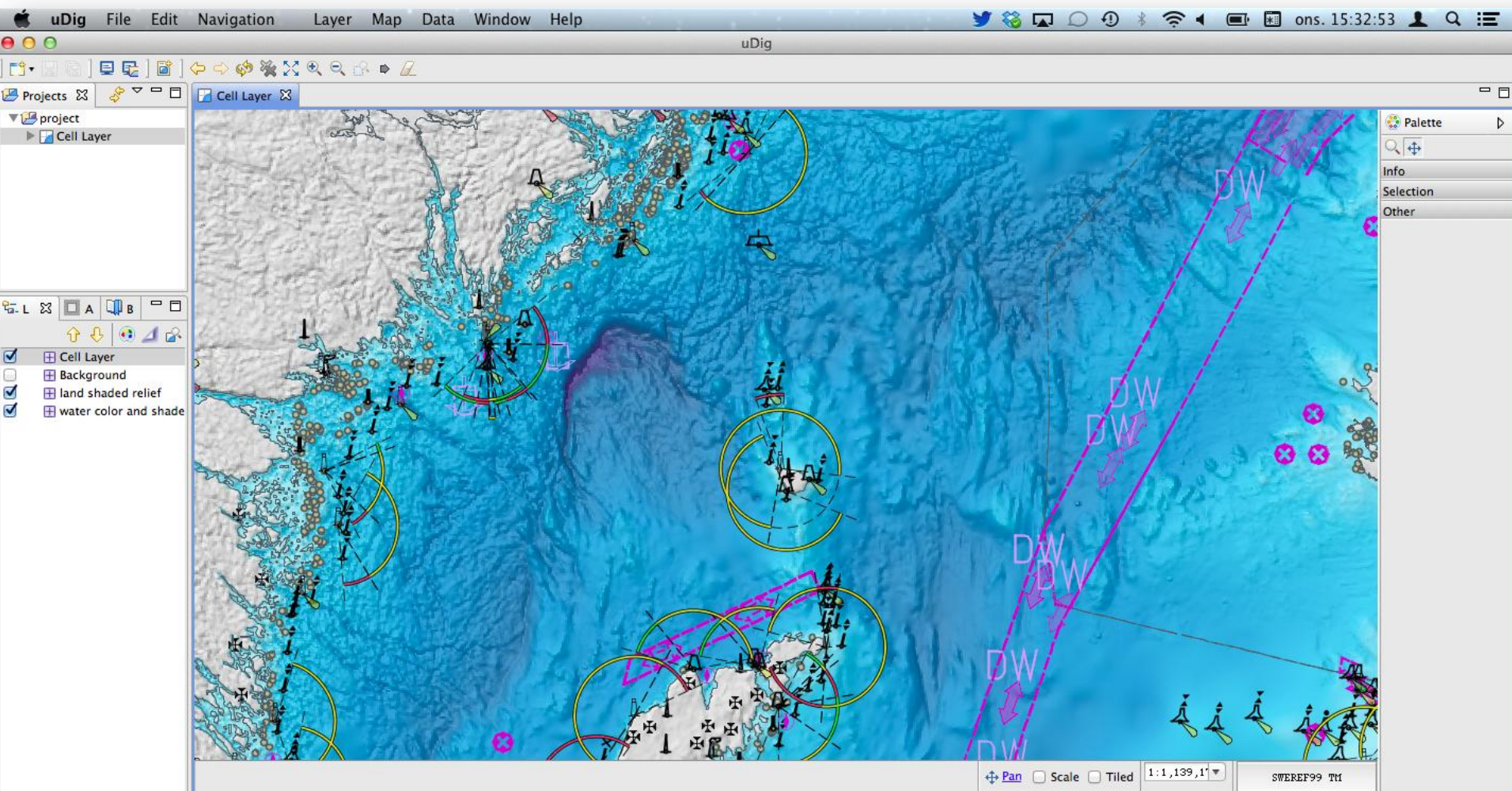
ENC with S-102 overlay (CARIS demo)



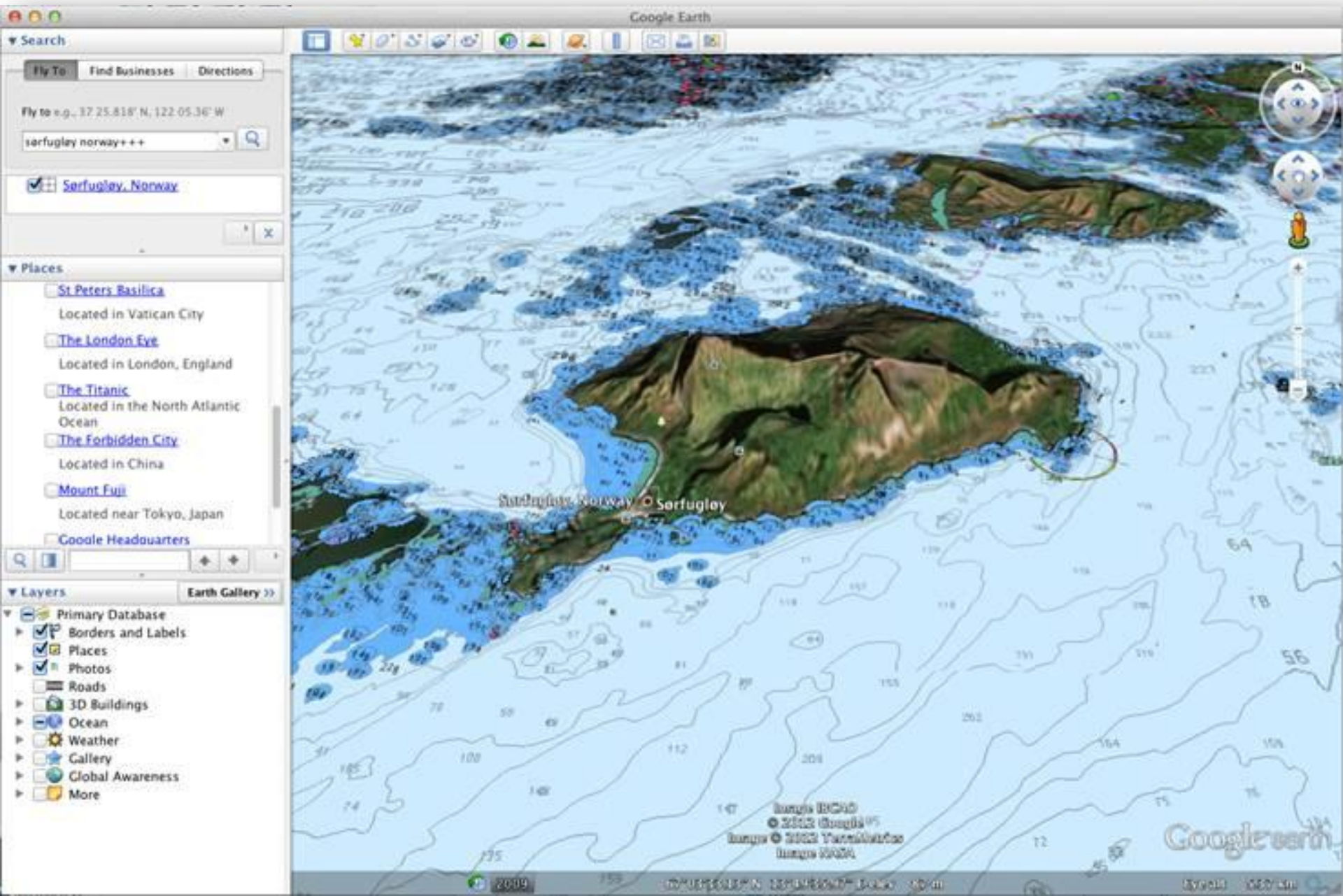
S-102 with ENC overlay (CARIS demo)



PRIMAR WMS with bathymetric overlay

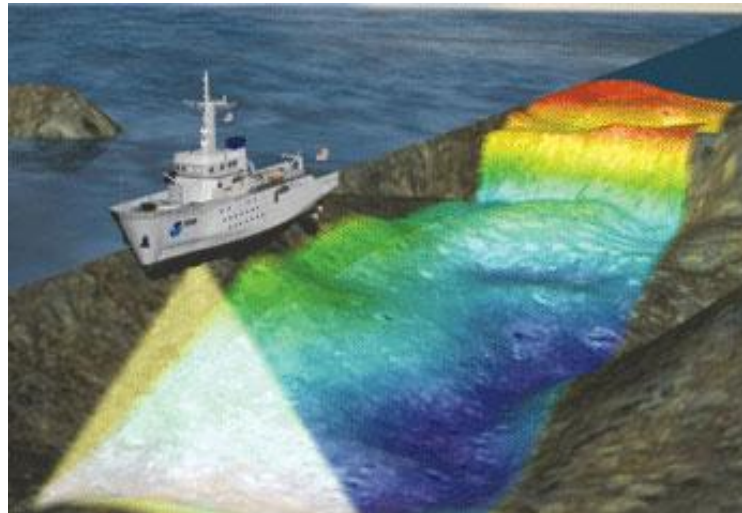


ENC WMS with Google Earth

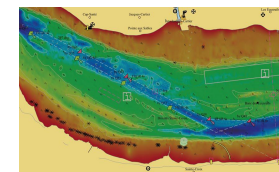


Maritime Geospatial Data

Survey once...



Use many times!



Thank you for your attention
Questions?

www.primar.org