



UK Hydrographic
Office

S-100 ACROSS THE CHANNEL

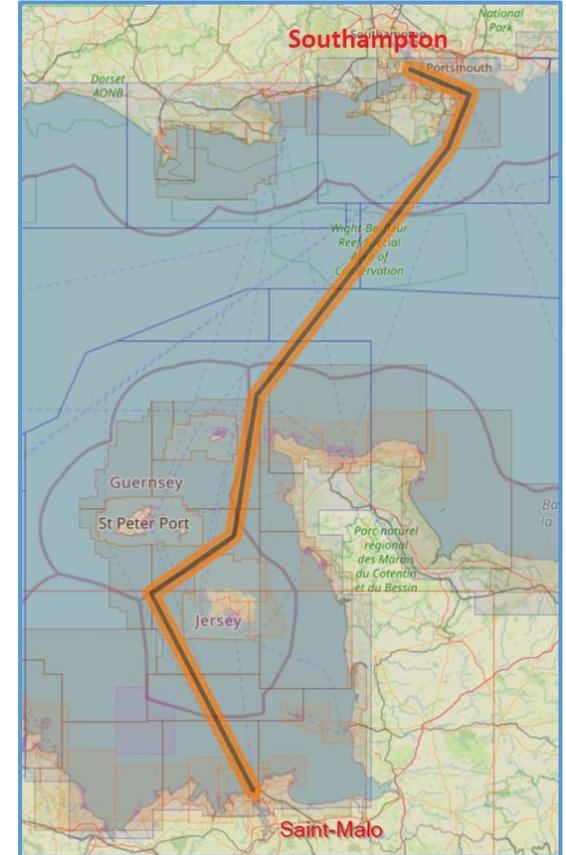
(Shom – UKHO S-100 ECDIS project)

Project overview

- Test of S-100 ECDIS (including Dual Fuel mode) on routes between Southampton and Saint-Malo.
- S-57 and S-101;
- S-102;
- S-104;
- S-111;
- S-98 (subject to OEMs prototypes maturity)
- S-124 (not included at this stage)

All data in line with S-100 Ed. 5.0.0

This presentation will focus on S-101 data.

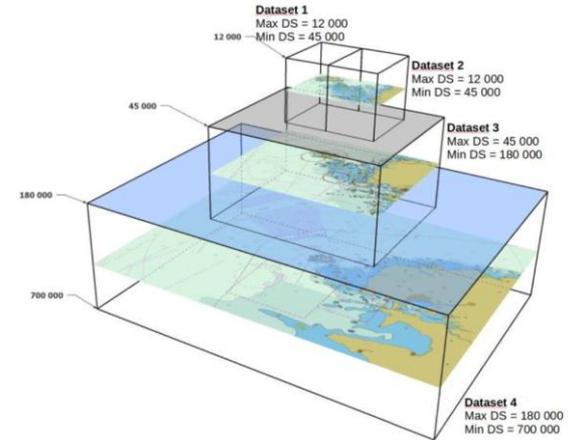


Data production

- Conversion of S-57 Data into S-101 (Edition 1.1.0)
- Addition of S-101 new features
- Production of Updates (ER) – (S-57 and S-101)
- Production of auxiliary files (.tiff / .txt)

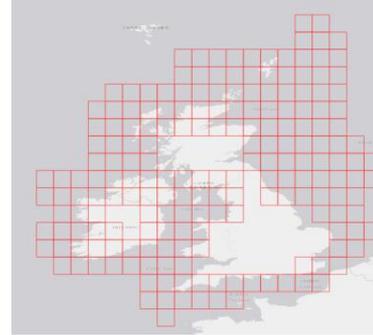
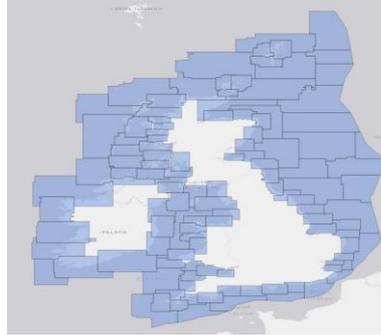
Issue: Harmonization of scales

- ✓ Setting of Max. and Min. Display Scales (DS).
- ✓ Shom and the UKHO will seek at harmonising their DS (to ensure seamless ENCs at the borders).
- ✓ Datasets will also be produced with non-harmonized DS to show the consequence for the mariner.



Nav Purpose	Name	Scale Range
1	Overview	<1:1499999
2	General	1:350000-1:1499999
3	Coastal	1:90000-1:349999
4	Approach	1:22000-1:89999
5	Harbour	1:4000-1:21999
6	Berthing	>1:4000

Possible scale ranges



Issue: ENC schemes

- Regular grids (UKHO) vs « traditional » coverage (Shom);
- The absence of consequence for the mariner in terms of display will be checked (the data will be clipped at the boundary for both countries).

The project covers the whole chain:

- Data production
- Data delivery from Hydrographic Offices to their respective RENC
- RENC delivery to the VARs
- Cybersecurity:
 - Encryption;
 - Digital signatures;
 - Licensing;
 - Compression.
- Datasets delivery to the Mariner: S-100 Exchange Sets

The project partners

- RENCs:



- OEMs:



- Ferry companies:

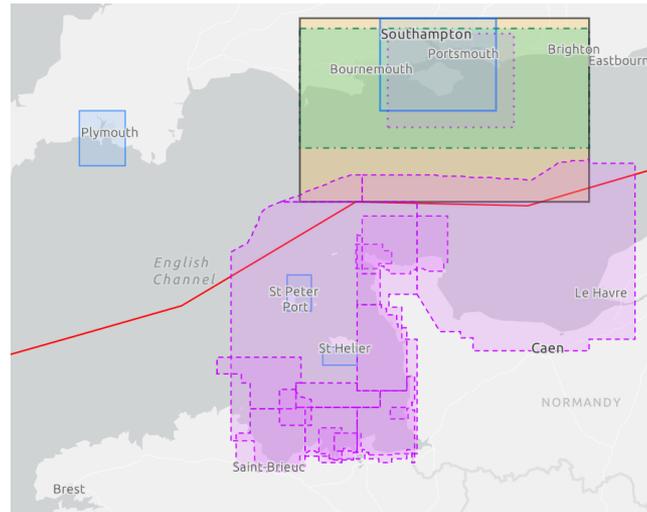


- Navies:



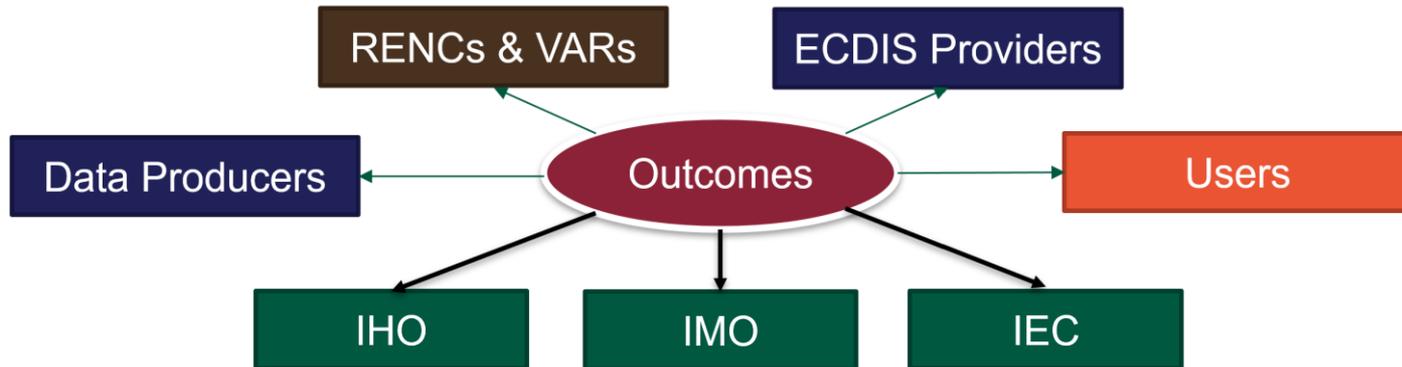
Project test data available on:

- The UKHO Marine Data Portal:
<https://datahub.admiralty.co.uk/portal/apps/sites/#/marine-data-portal/pages/s-100>
- Shom Website (soon): <https://diffusion.shom.fr/>



Project outputs

- Project Report (incl. Press release)
- Feedback to the IHO (potential standard issues)
- Feedback to the IMO and IEC (as a safety case)



Project timeline (flexible):

- VTC Meetings between Shom and the UKHO started in T1 – 2021
- Finalized S-101 Data availability: Summer 2023
- Onshore visualization and testing: Summer 2023
- Sea trials: T4 – 2023?

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Any question?

THANK YOU!

MERCI !
