

SWPHC S-100 Workshop#3

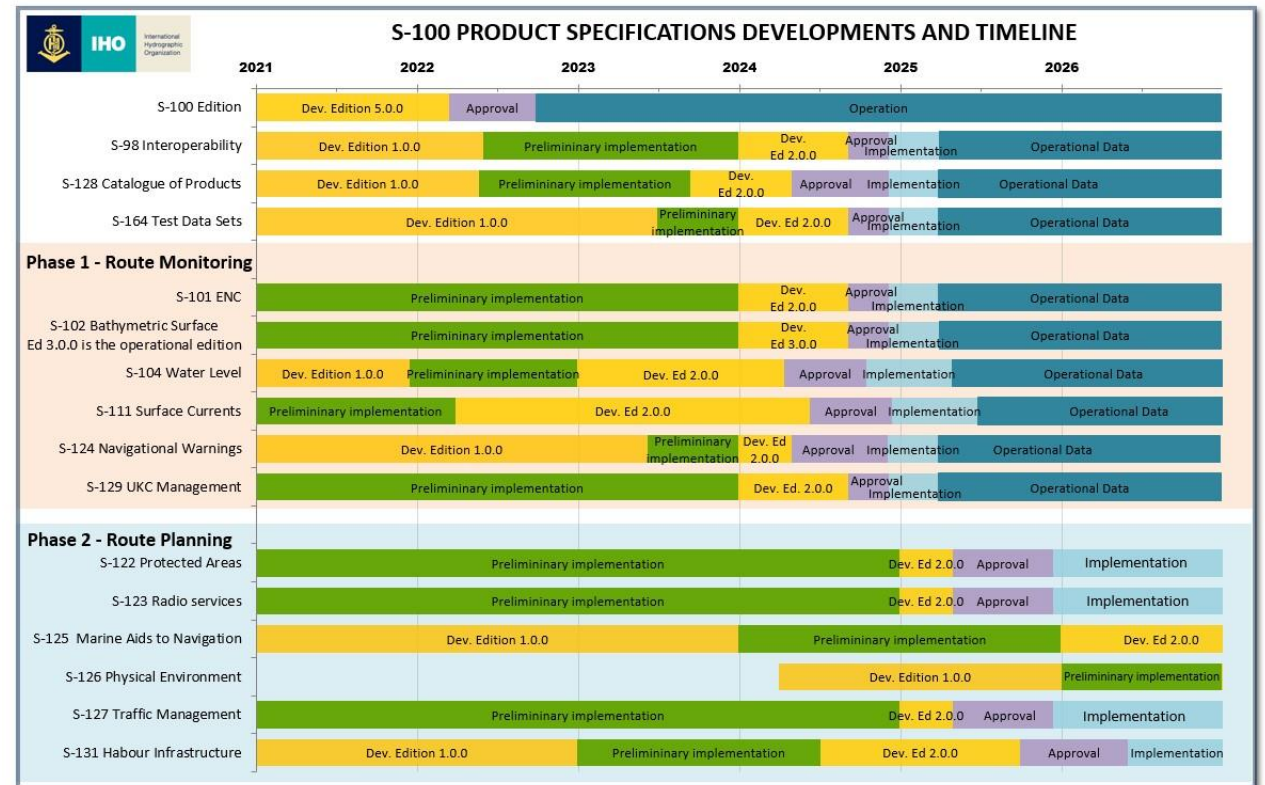
UK Hydrographic Office Update on S-100 Progress

Presented by Dan Miners



Overview of S 100 Activities at UKHO

- › Focus on Phase I Implementation of S 100 Product Specifications
- › Collaboration with partners to carry out sea trials
- › Test data available to download from ADMIRALTY Marine Data Portal



UKHO S-101 Production Options



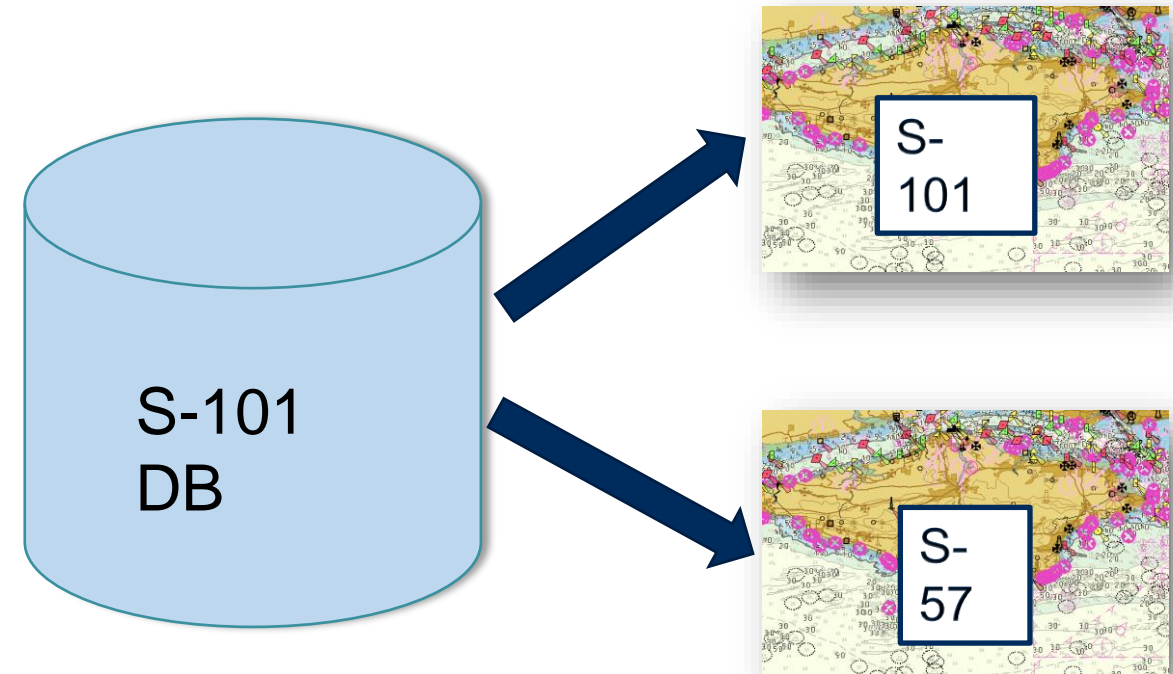


Potential S-101 Production Options Considered

- › Must be a database driven solution for UKHO
- › S-57 Database and produce S-101 and S-57, not viable due to the effort required converting to S-101 for every update
- › S-101 Database > S-101 Product, then convert this product back to S-57, this was tested and not viable for producing updates
- › S-101 Database and produce S-101 and S-57 products in parallel worked successfully in initial testing

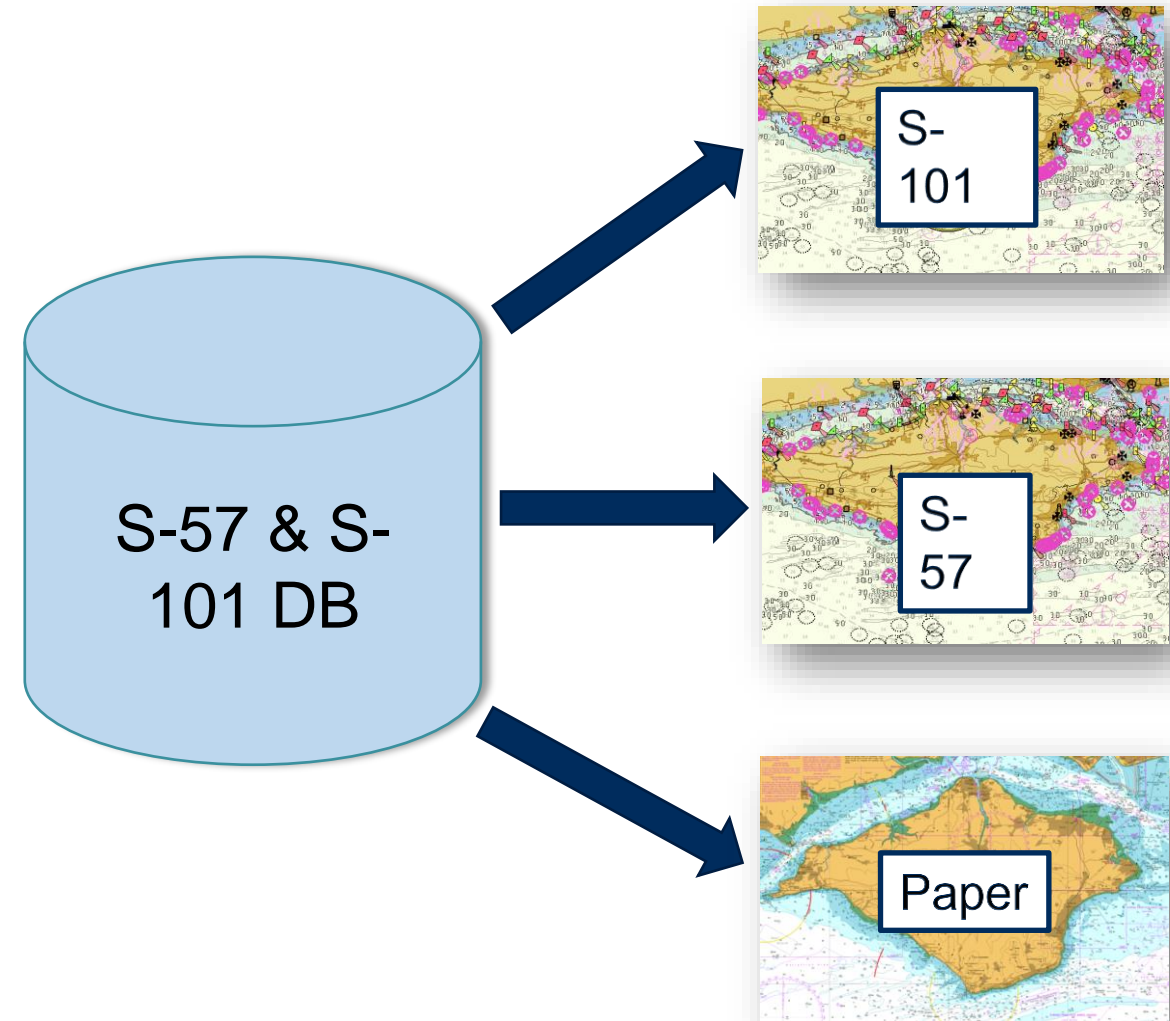
Parallel Process – New Schema (already tested)

- › S-101 test data added to a new Schema with an S-101 data model
- › Using Product Editor created S-101 product from this Schema
- › Then using Product Editor created a S-57 product from the S-101 Schema



Parallel Process – Existing Schema (about to commence testing)

- › S-57 data converted to S-101 within the existing Schema
- › Using Product Editor create S-101 products from this Schema
- › Existing S-57 products and paper chart updated for changes from S-101 data





Convert an area at a time

S-101	S-101	S-101
S-101	S-101	S-101

UKHO S-102 trial project



S-102 Sea Trial

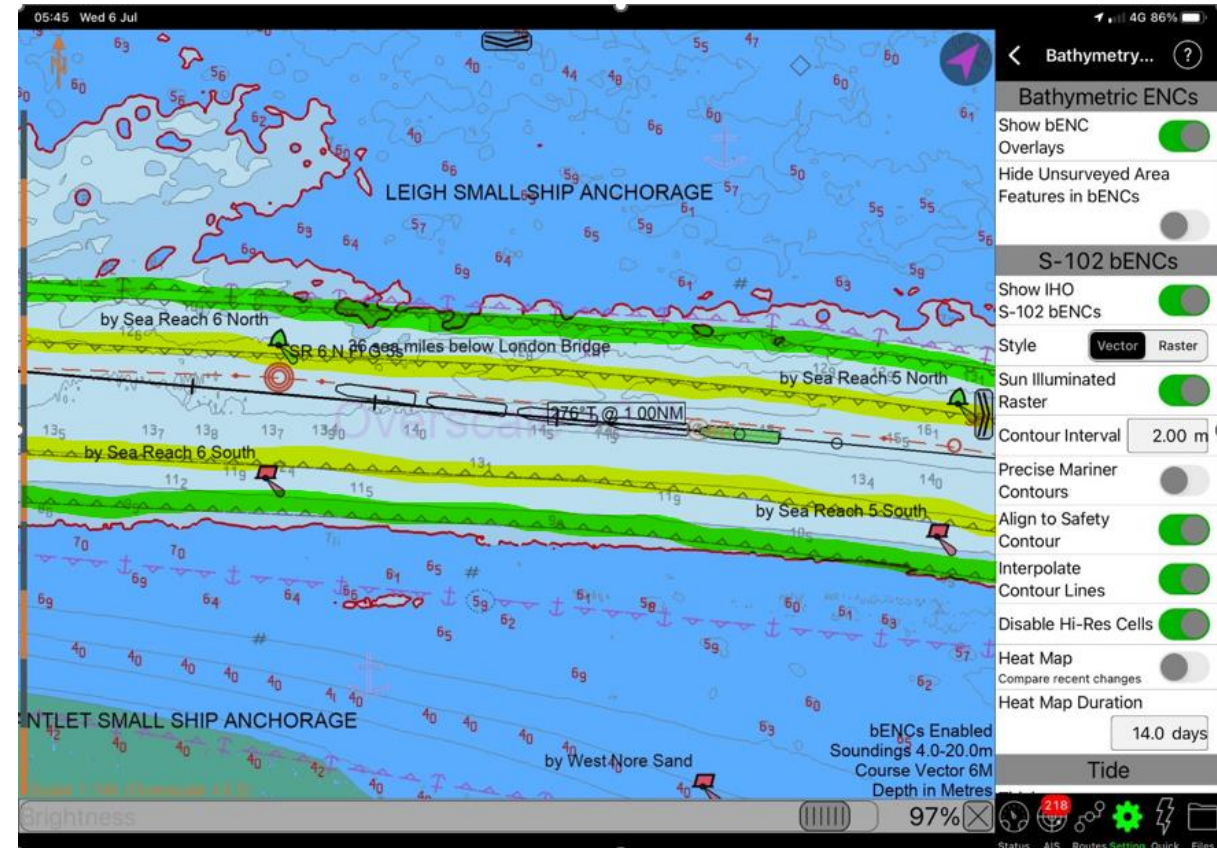
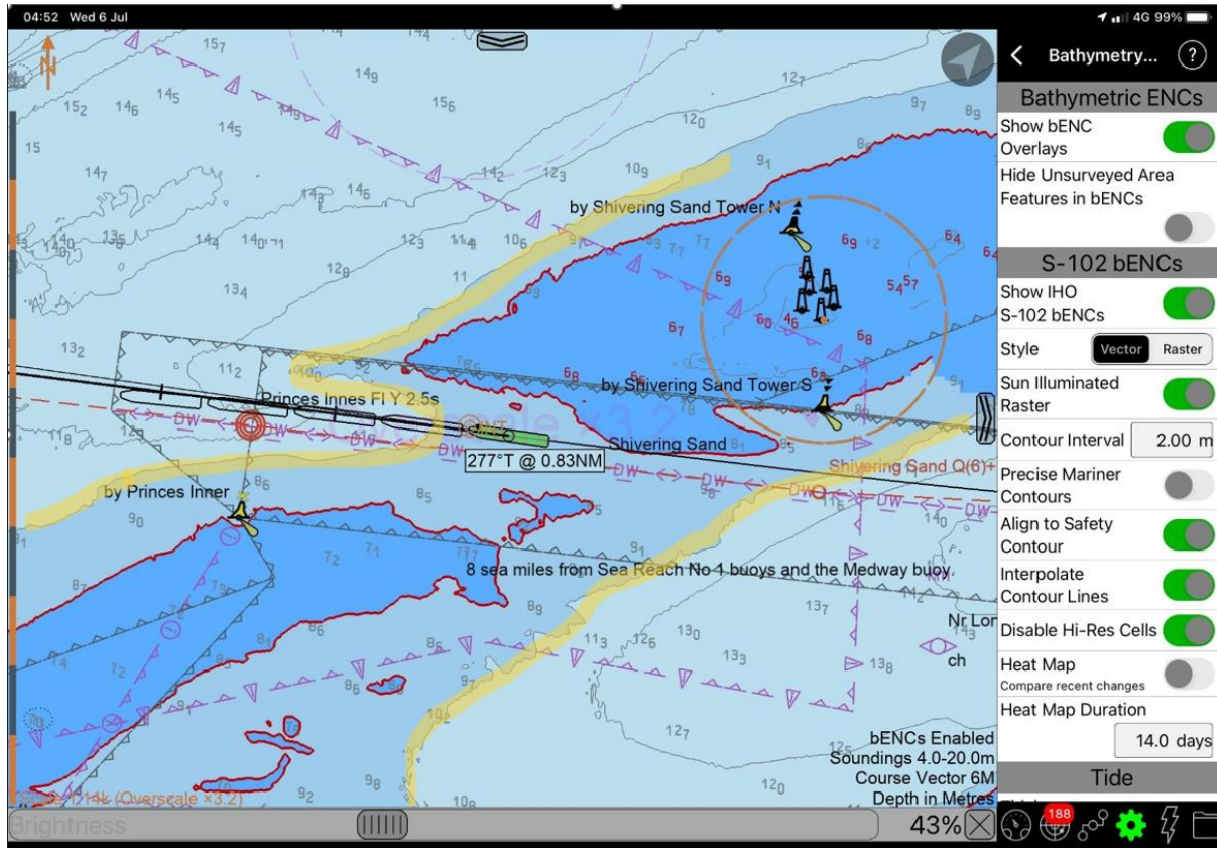
- › Conducted with the Port of London using SEAiQ Portable Pilot Unit (PPU).
- › Understand how S-102 data can support safety of navigation in live environment.
- › High resolution gridded bathymetry provided for trial.
- › Findings help to understand S-102 development and feedback to IHO Working Groups.





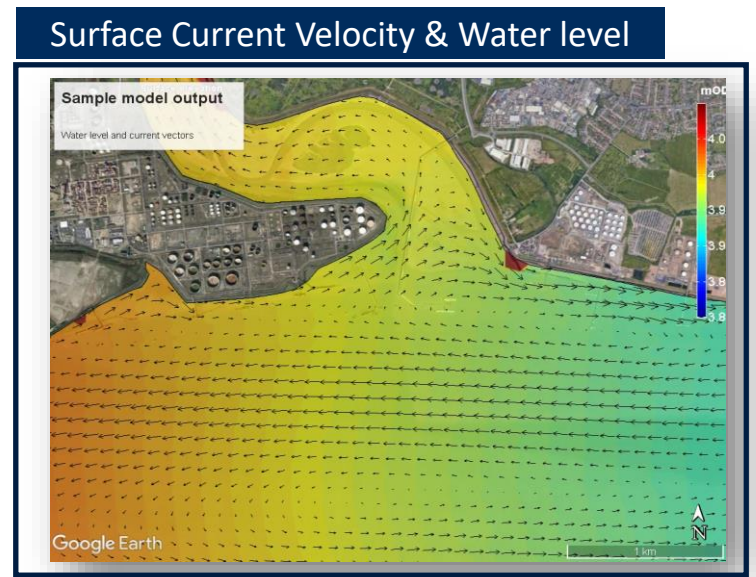
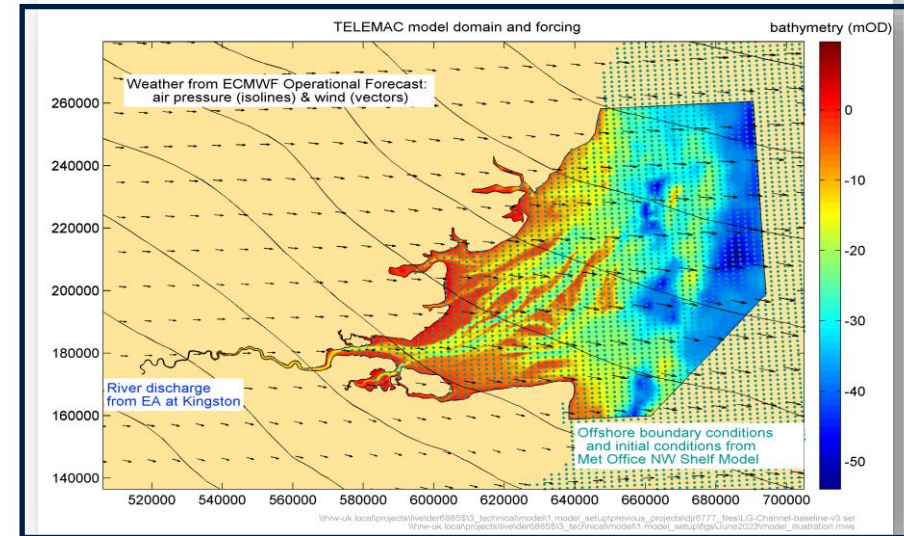


S-102 Bathymetric Surface



PLA S-100 Sea Trials

- › The second sea trial will further explore the usage of S-100 and how it provides operational value to pilots, and onshore planning over a longer duration with a regular update service.
- › As well S-102 Bathymetric Surfaces that were tested in the prior sea trial, this one will also layer S-101 ENC's, S-104 Water Heights and S-III Surface Currents.
- › During the sea trial PLA and the UKHO plan to validate the accuracy of the surface current forecast model by conducting live observations in two critical areas.





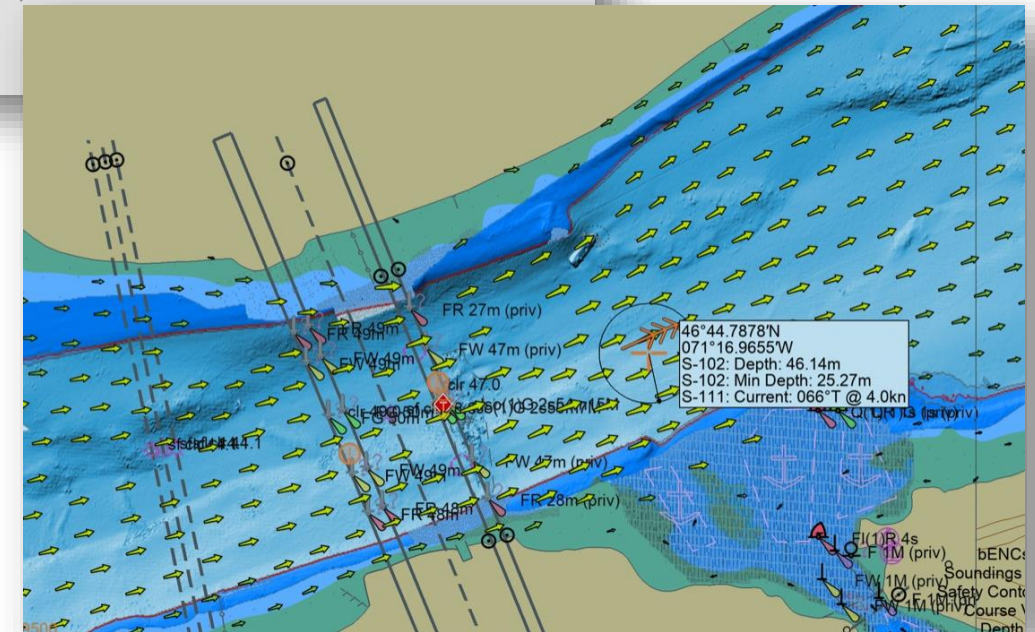
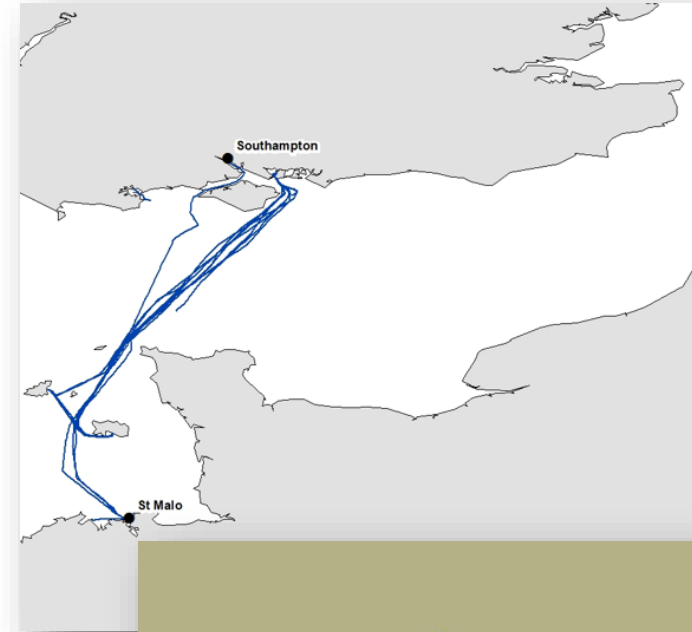
UKHO SHOM S-100 ECDIS Trial



UKHO SHOM S-100 ECDIS Project

Project aim is to gather evidence for S-100 ECDIS risk assessment. Building the safety case to support IMO approval of the S-100 ECDIS.

- › Data Production
- › Distribution
- › Display



Questions

Thank you

