



Hydrographic Services and Standards Committee

HSSC 7

Proposal by Australia

Establishing a Project Team in the S-100 WG

Development of a S-100 Product Specification

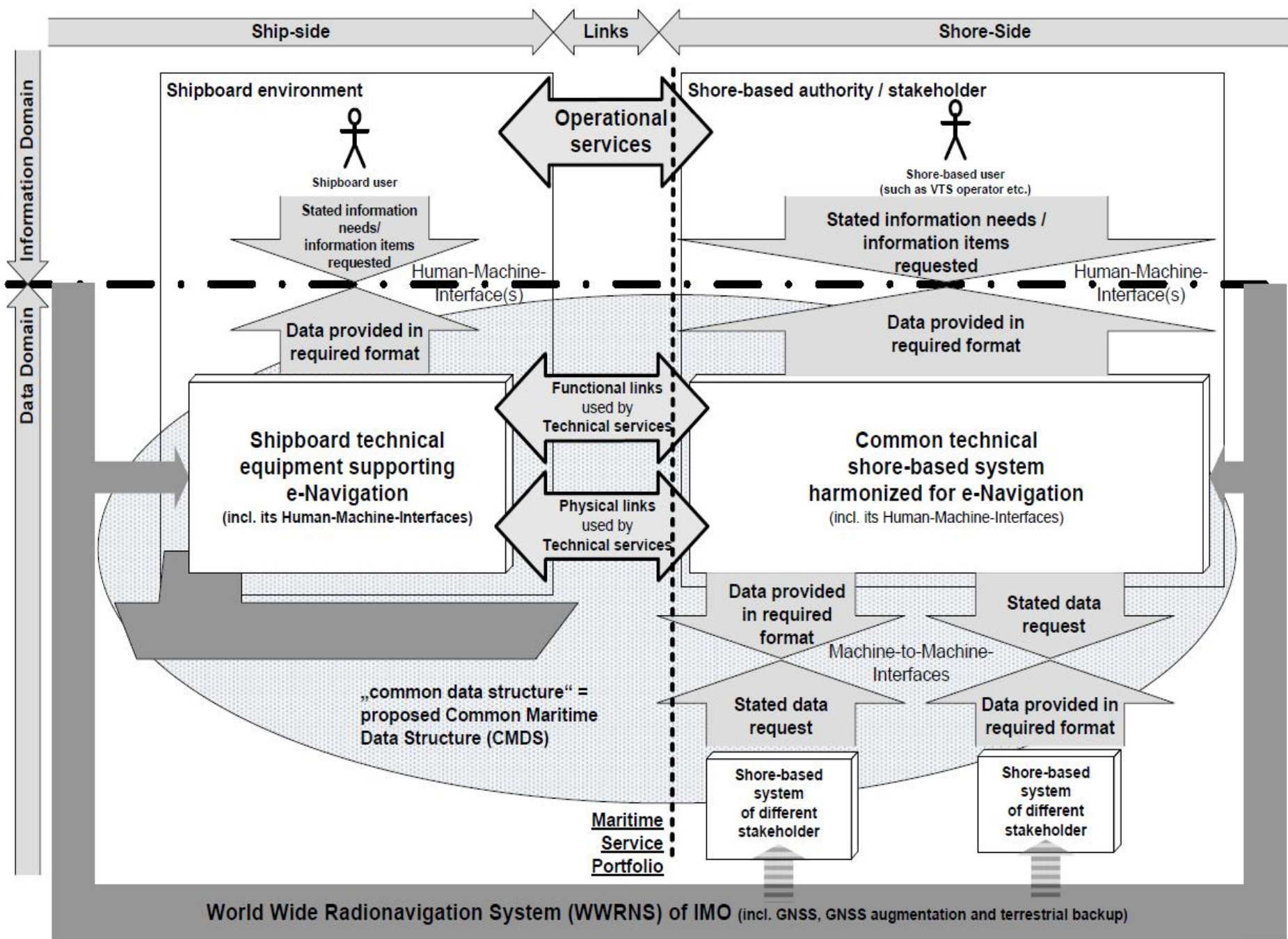
for

Under Keel Clearance management Information

# The IMO-led concept of e-Navigation

- ✦ A strategy was agreed in 2008
- ✦ A plan to implement it was agreed in 2014
- ✦ Five planned outputs are to be progressed (summarised):
  - Guidelines on standardised or S Mode of operation
  - Improved, harmonized and user-friendly bridge design, in particular navigational displays
  - Means for standardized and automated reporting





Note: There are operational and technical interactions between different shipboard environments. These are not shown for simplicity's sake in this figure.

# Common Maritime Data Structure

- ✦ CMDS is at the heart of e-navigation
- ✦ 16 Maritime Services Portfolios
- ✦ Agreement to use the IHO S-100 Geospatial Information (GI) Registry
- ✦ Major task - development of data models
- ✦ Work at IALA
- ✦ IMO-IHO harmonization group on data modelling



# IALA contribution

- ✦ IALA's E-Navigation Committee is working on the shore aspects:
  - Positioning, Navigation and Timing
  - Communications (AIS, VHF Data Exchange System)
  - Maritime Services Portfolios (MSI , chart etc.)
  - Systems architecture
  - Implementation of e-navigation

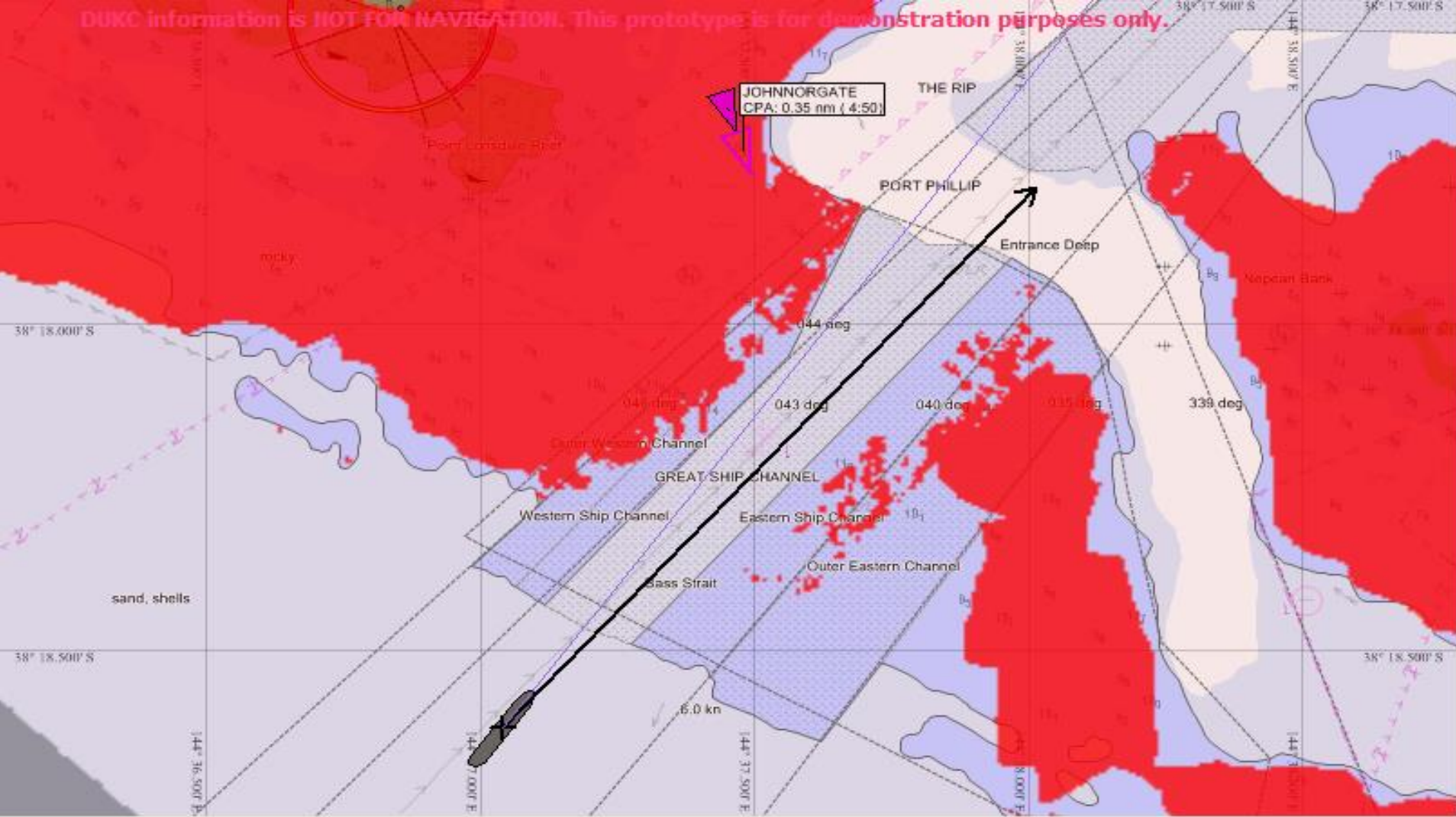


# Chart Overlay module

- ✦ Developed for AMSA's UKCM system
- ✦ Introduced in 2014 following tests with pilots
- ✦ Provides an additional spatial dimension for pilots when navigating the Torres Strait.

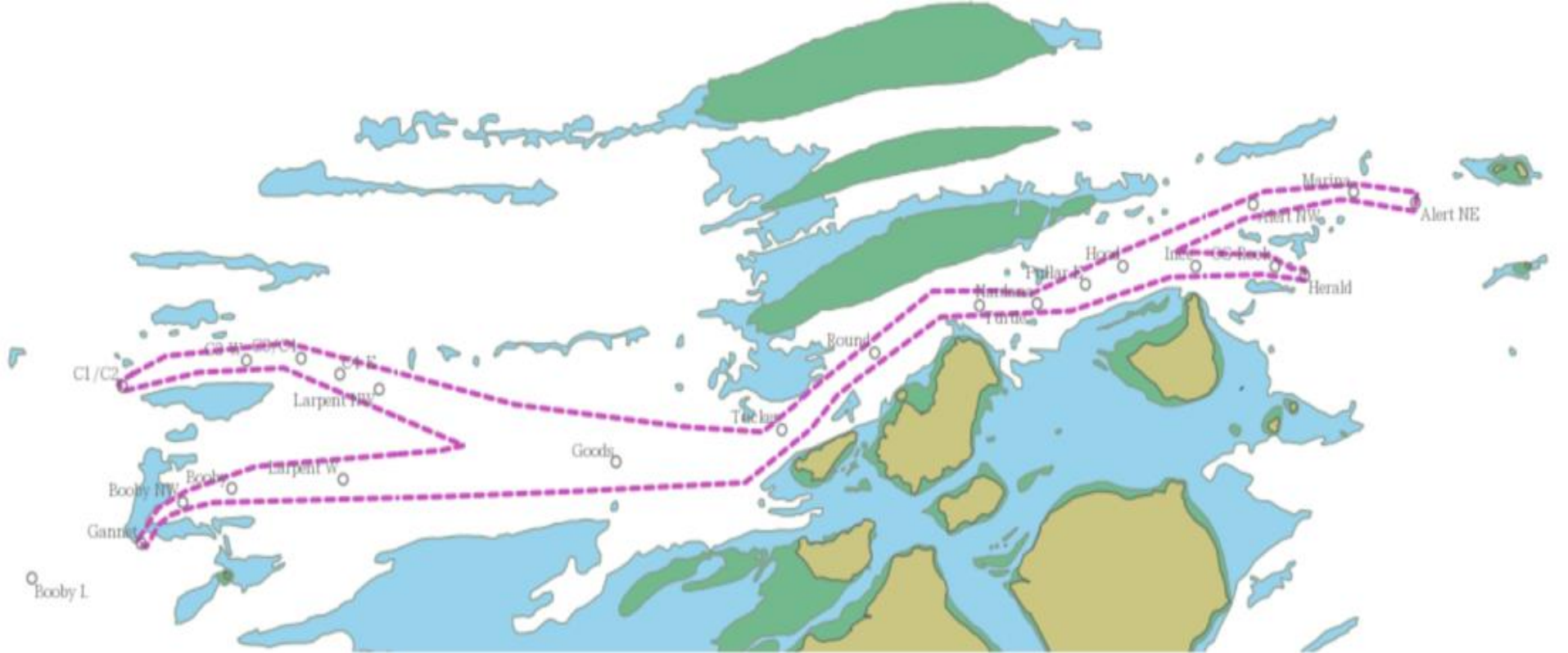


DUKC information is NOT FOR NAVIGATION. This prototype is for demonstration purposes only.



**Real-time chart overlay information showing areas of insufficient UKC (in red) for a vessel transiting a channel**

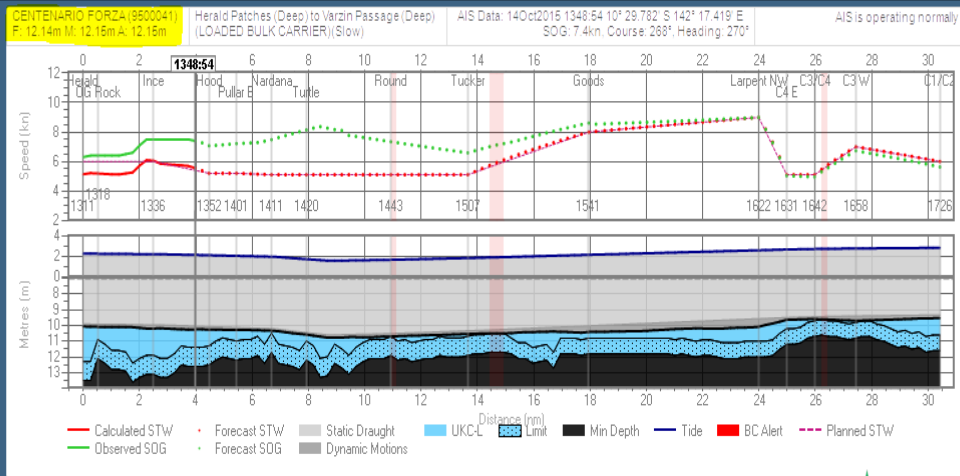
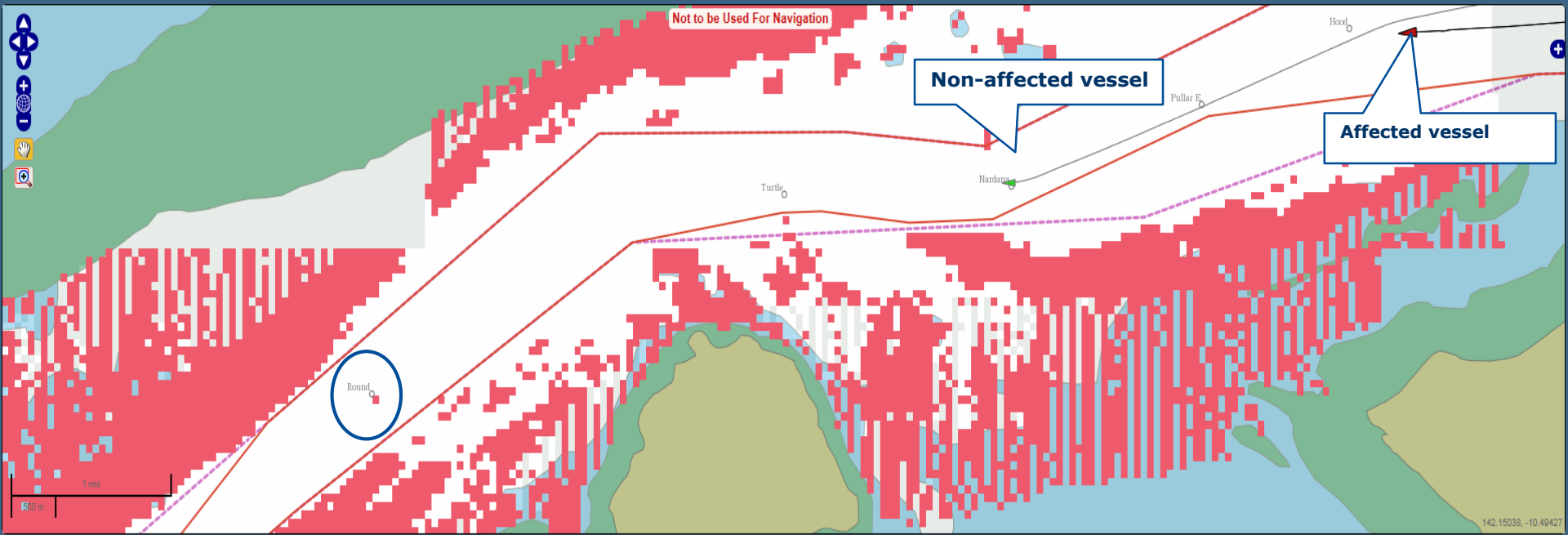


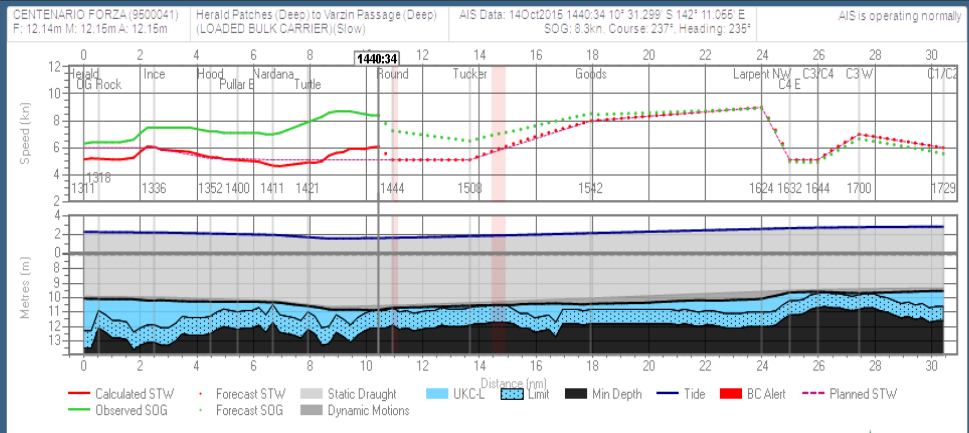
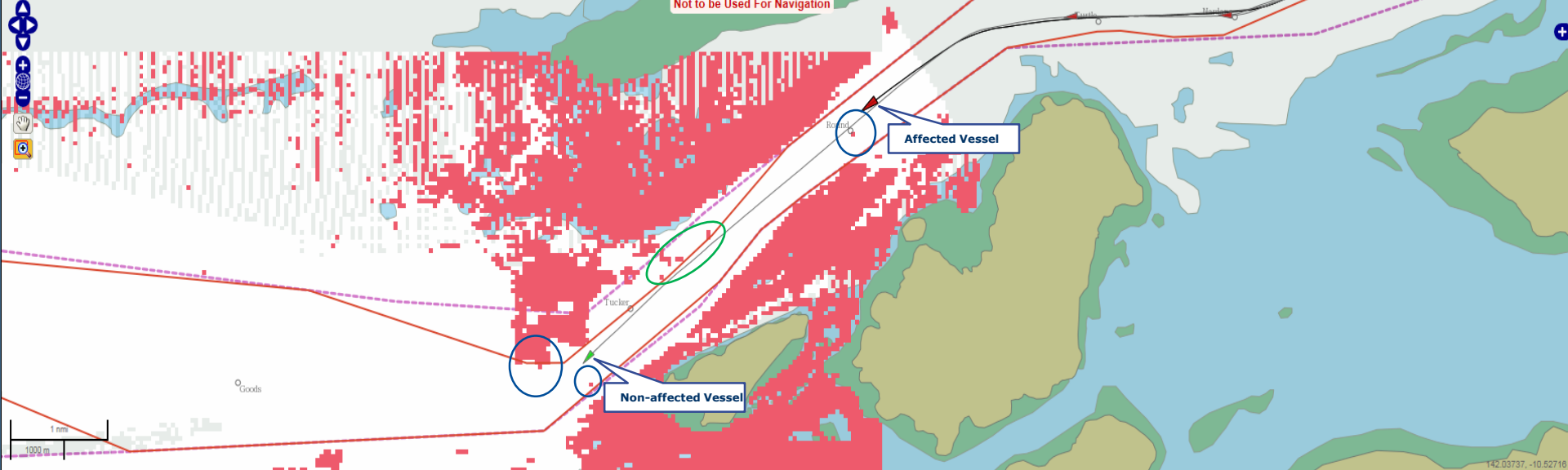


**ENC data showing defined UKC management areas (within magenta broken lines) in Torres Strait, Australia.**









# Action requested of HSSC 7

- ✦ Consider if UKC management information is appropriate for a S-10X product specification
- ✦ If so, agree to the formation of a project team within the S-100 WG to develop a draft Product Specification



**Thank you for your attention !**

