IHO S-100 WG Meeting
S-129 UKCM PS

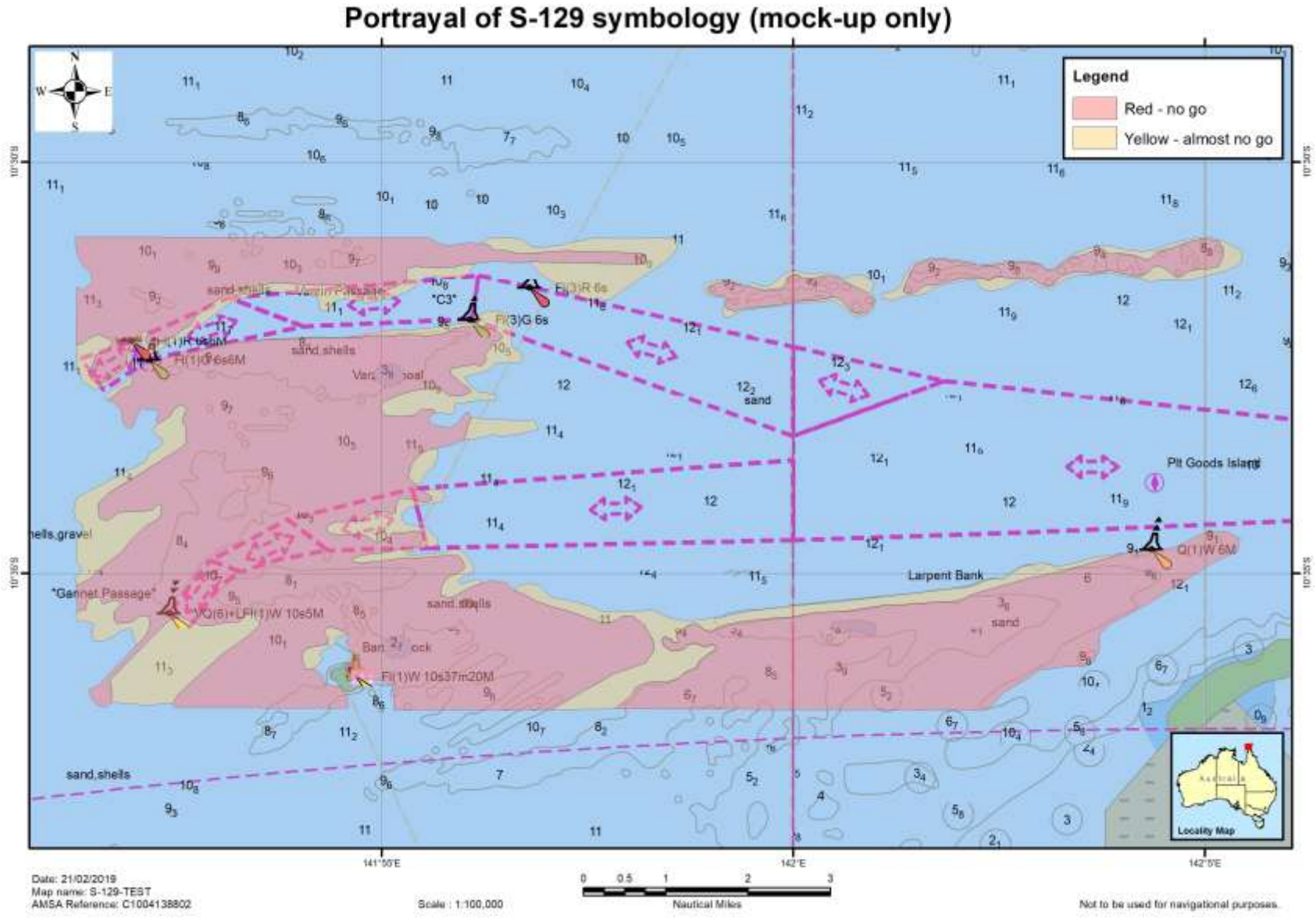
Introduction of S-129 and issues for S-100 WG consideration

S-129 Project Team

S-129 - reason for being

- A Ship's Master has an obligation under SOLAS regulation V/34 to plan and monitor their ship's passage from berth to berth.
- When implemented in a ship's navigation system, and made use of by a UKCM service provider, S-129 enables UKCM information to be shown on a ship's navigation system and so enable the ship's crew to safely monitor a ship's passage in a UKCM service area.
- S-129 enables encoding the extent and nature of UKCM information products.

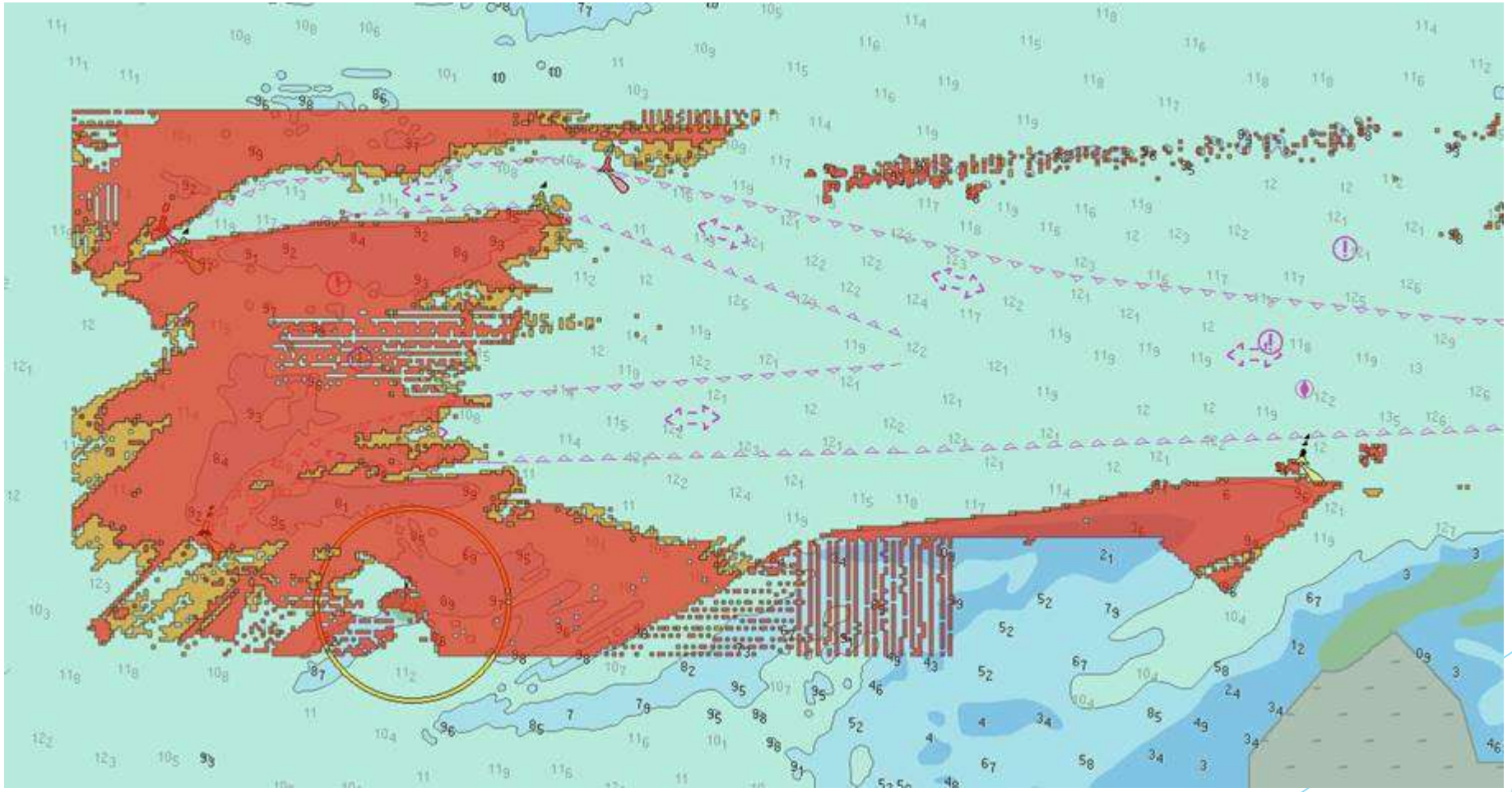
Example portrayal - no-go and almost no-go



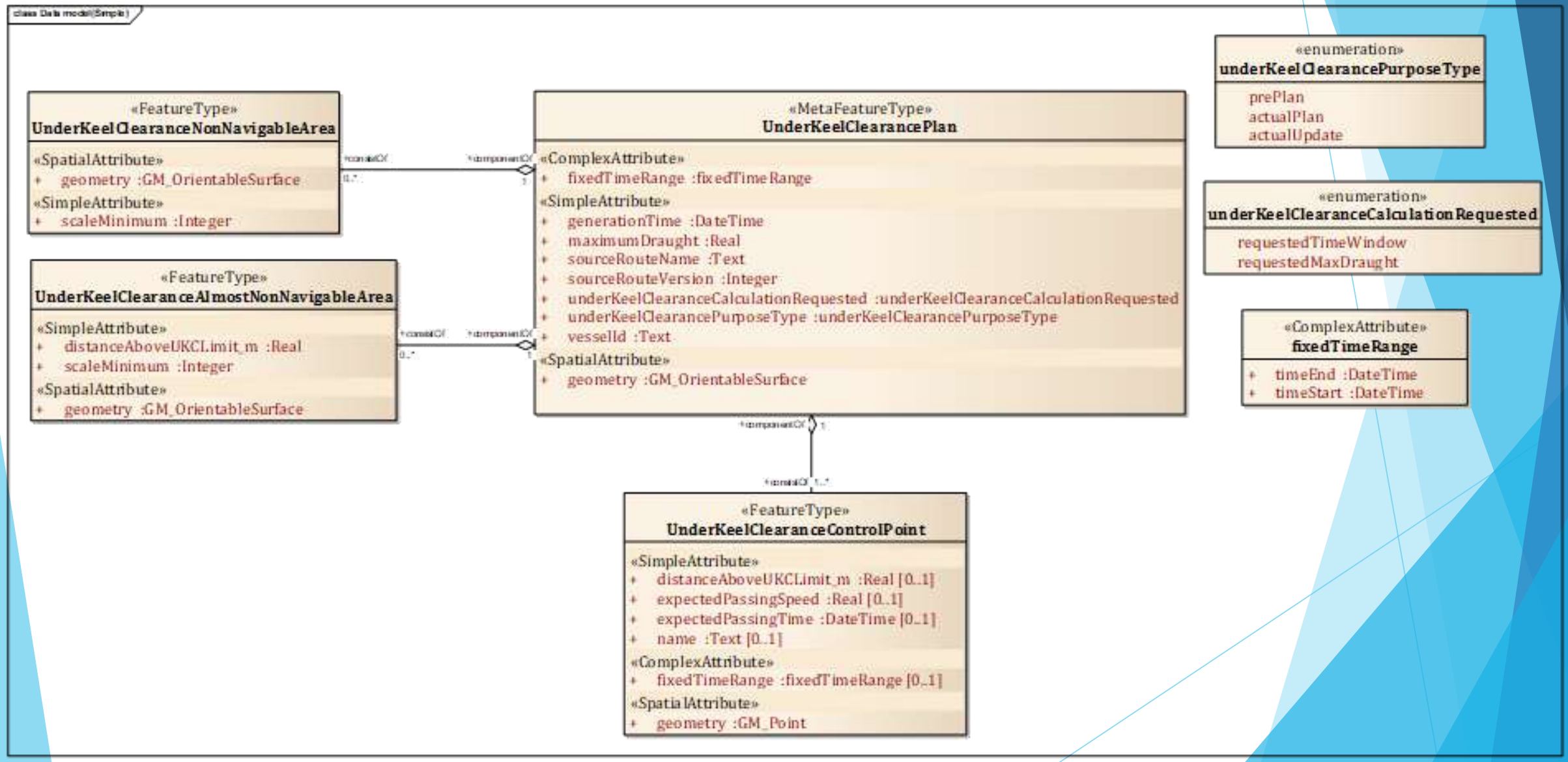
- mockup of S-129 portrayal based on an output from the UKCM system operating in Torres Strait

TS UKCM system output

as displayed on a pilot's PPU

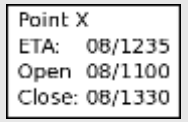


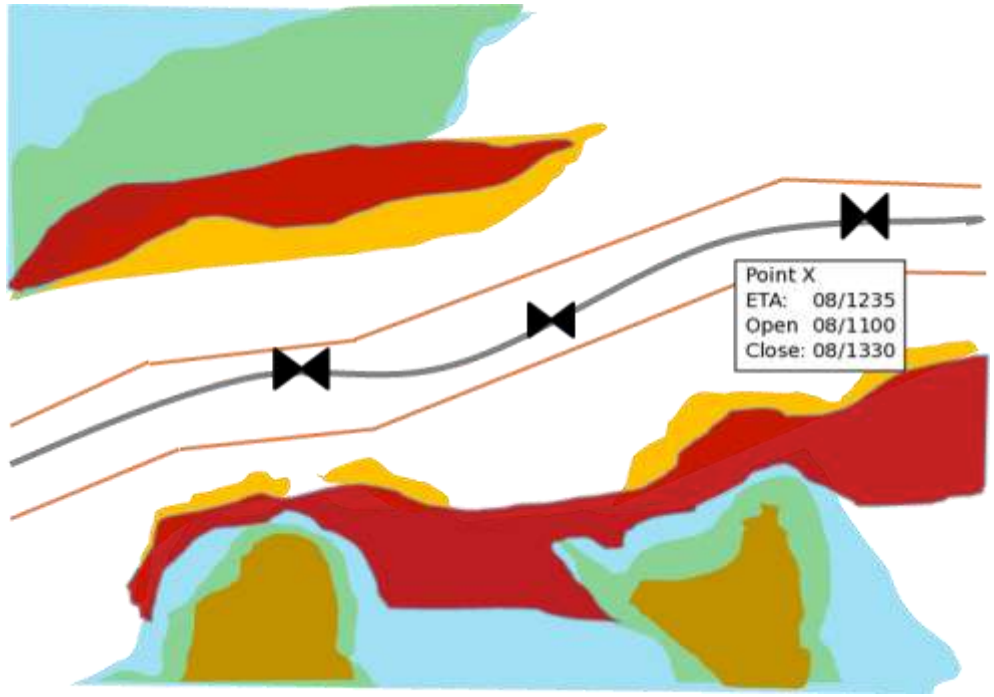
UKCM data model



Control point

«FeatureType» **UnderKeelClearanceControlPoint**
«SimpleAttribute»
+ distanceAboveUKCLimit_m :Real [0..1]
+ expectedPassingSpeed :Real [0..1]
+ expectedPassingTime :DateTime [0..1]
+ name :Text [0..1]
«ComplexAttribute»
+ fixedTimeRange :fixedTimeRange [0..1]
«SpatialAttribute»
+ geometry :GM_Point

Description	Symbol
UnderKeelClearance ControlPoint	 



* Displaying InformationBox can be chosen by the user.

Navigation areas

«FeatureType»
UnderKeelClearanceNonNavigableArea

«SpatialAttribute»
+ geometry :GM_OrientableSurface

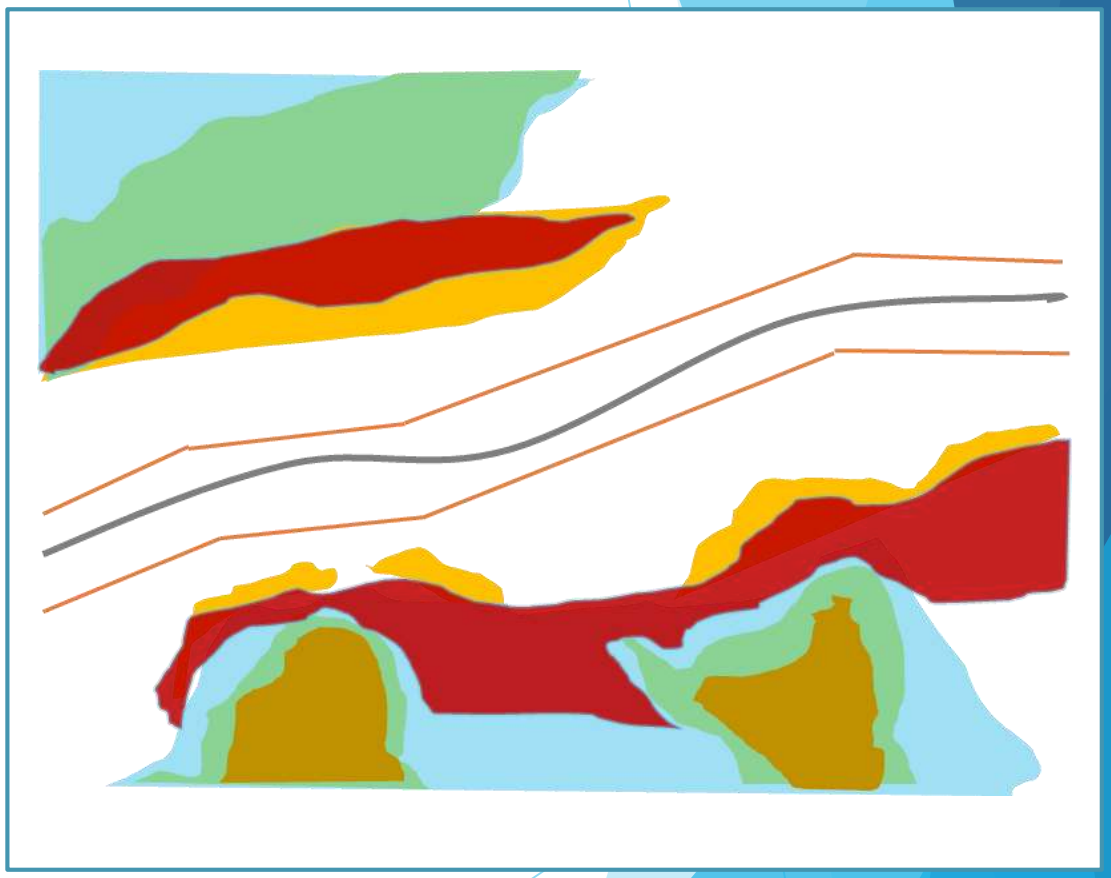
«SimpleAttribute»
+ scaleMinimum :Integer

«FeatureType»
UnderKeelClearanceAlmostNonNavigableArea

«SimpleAttribute»
+ distanceAboveUKCLimit_m :Real
+ scaleMinimum :Integer

«SpatialAttribute»
+ geometry :GM_OrientableSurface

Description	Symbol
UnderKeelClearance NonNavigableArea	Surface
UnderKeelClearance AlmostNonNavigableArea	Surface

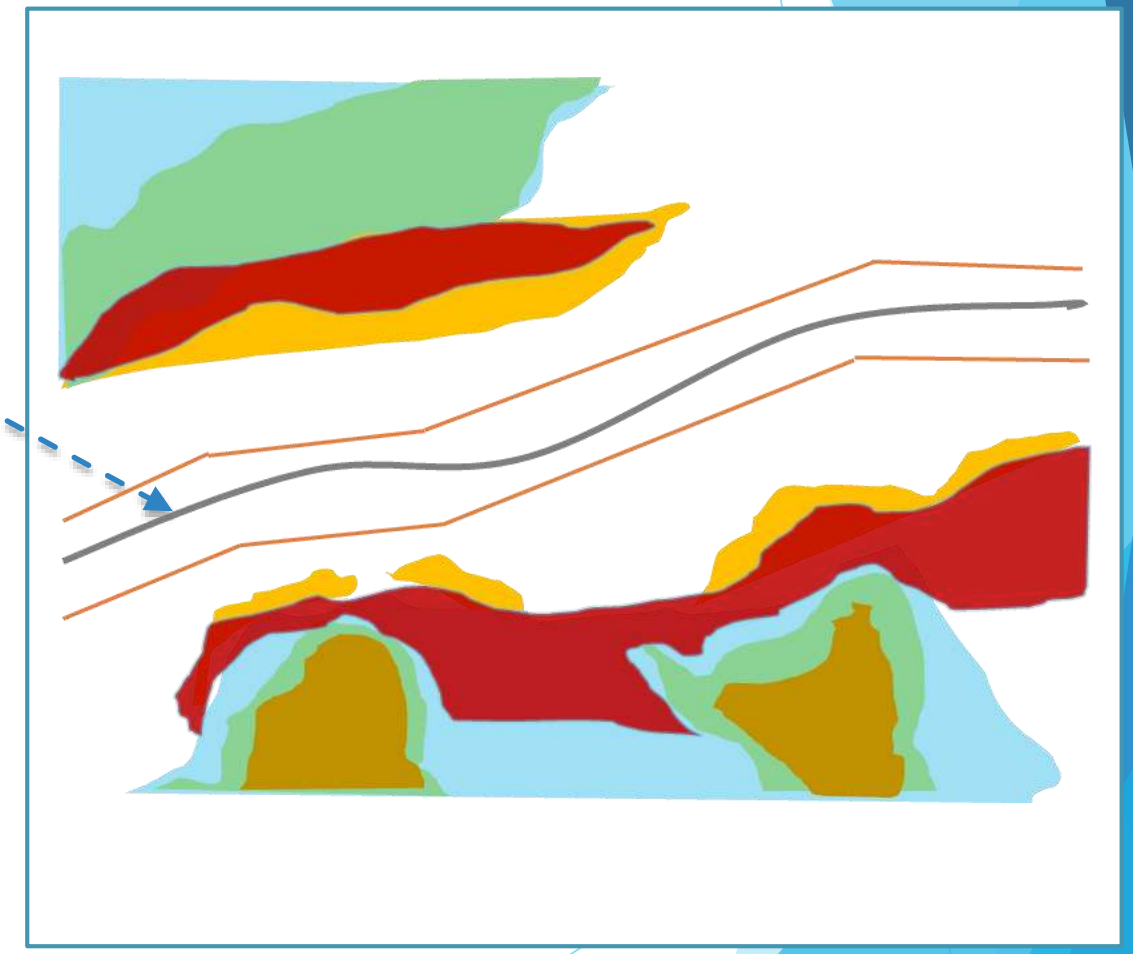


Route information

Description	Symbol
Route	Line

S-129 UKCM does not estimate the detail info for the RTZ, but it can refer and adopt a designated route produced by its service providers including ECDIS manufacturers.

The RTZ information will be described in S-421 Route Plan PS.



Issues to resolve

- Use of terms ‘dataset’ and ‘data product’ within the PS – P 16 and multiple occurrences
  - Guidance from WG is requested
- Explanation of how a ship receives datasets – p17
  - Deliberately not describing the communications channel at this stage
- Units of measure – any further required? P24
  - Are imperial units of measure also needed? (e.g. for the US)
- Transmission encoding – appropriate time to include this? P30
  - Additional paragraphs have been included

Issues to resolve

- Structure for cancellation – p31
  - Has been remedied
- Definition of file size limit – p31
  - Sec 17.1 updated with advice from OMC
- Data classification and encoding guide – Annex A – p49
  - Assistance from KHOA and Eivind provided and now included
- Enumeration values – Annex C – C.4.1 and C.4.2 - p75
  - Suggestions to be decided

Issues to resolve

- Under Keel Clearance Purpose Types – definition of values – p75
  - Suggestions to be decided
- Viewing Groups – Annex D – p91
  - S-100 WG to advise what to include in this section
- Annex E issues
  - S-100 WG to advise if this needs to be changed before the PS can be made version 1.0

Next steps

- If the remaining issues are not showstoppers will the WG approve S-129 edition 1.0.0 and bring it to HSSC?

Or

- If the issues are showstoppers, then what are the next steps? Do we have the project team resolve the issues and then use a letter approach for the WG and HSSC approval?

The end