



Maritime &
Coastguard
Agency



United Kingdom
Hydrographic Office

Survey Planning in the UK

The UK Civil Hydrography Programme



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- **Overview**
- **Planning Process**
- **Routine Resurvey**
- **GIS Prioritisation Tool**
- **Questions**

The CHP

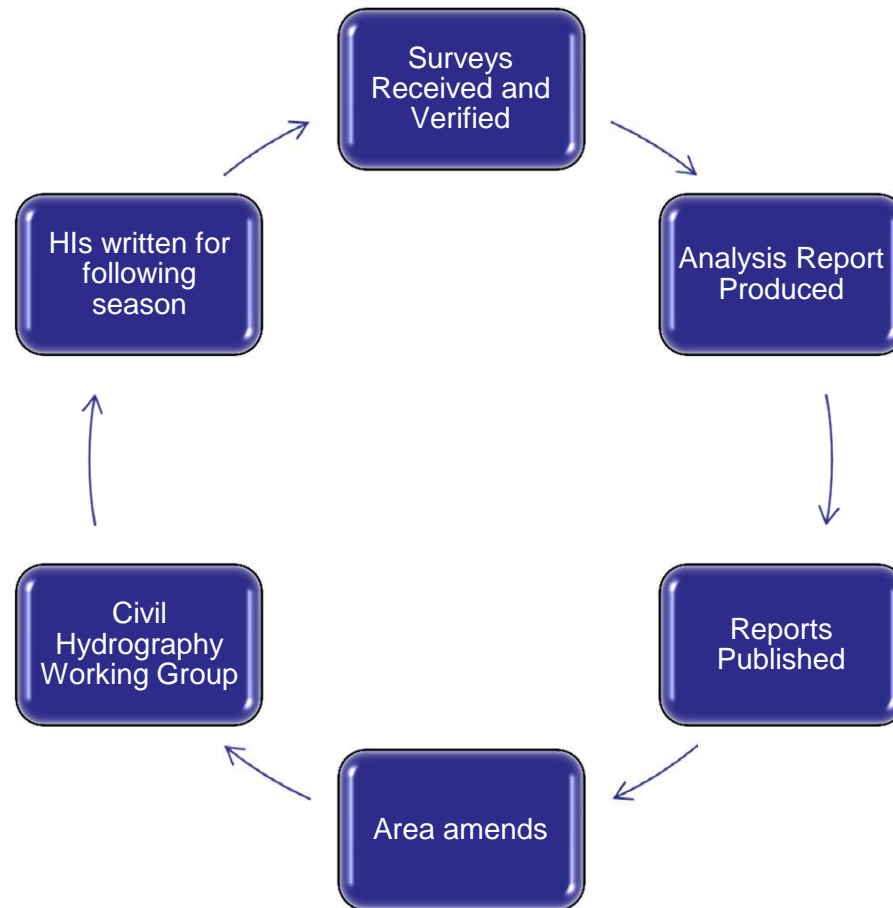
- The MCA and UKHO work together to deliver the CHP
- MCA has overall SOLAS responsibility.
- UKHO ensures charts and pubs are SOLAS compliant.
- Over 720,000km² of seabed
- Currently around £6 million p.a.



Prioritisation of Key Areas

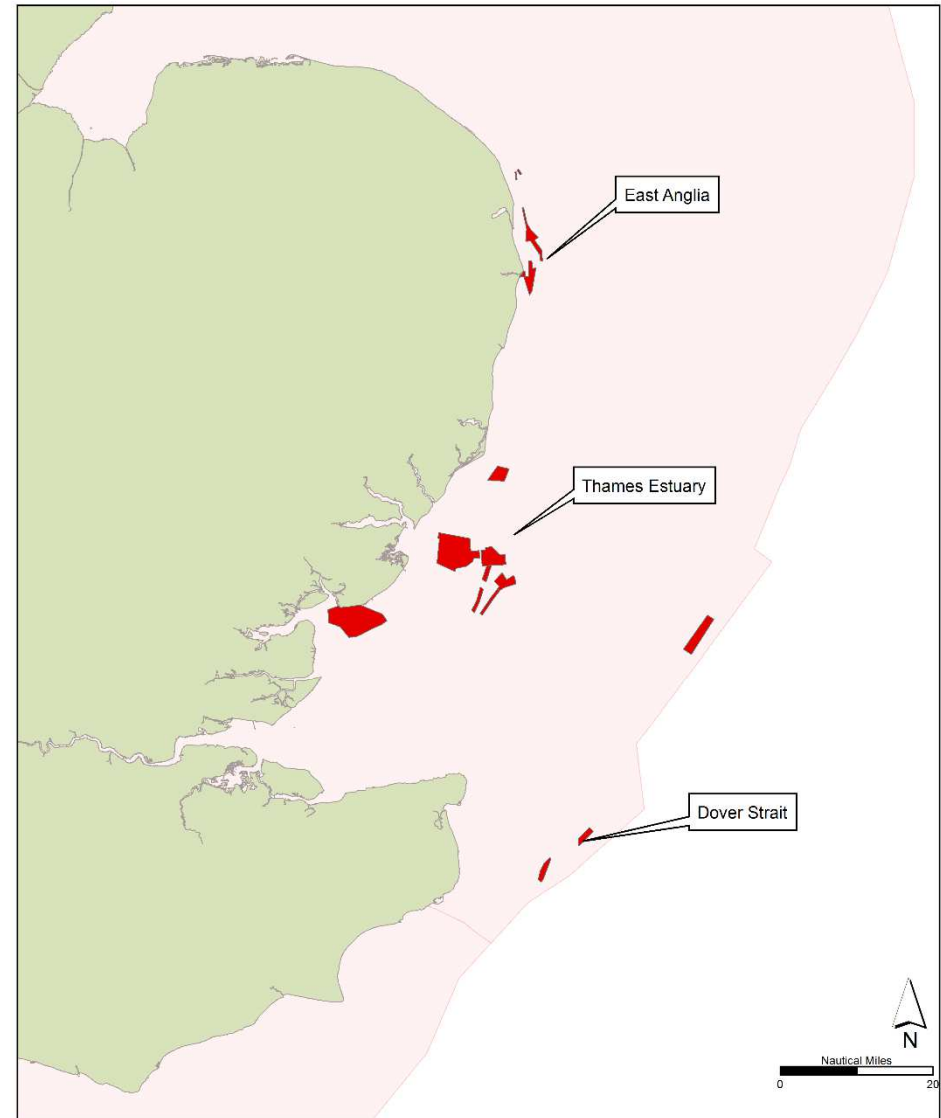
- Multi-million pound annual budget, allows for around 1-2% of the UK seabed to be surveyed each year.
- Therefore, survey effort must be focused on the highest priority areas to provide the best SOLAS “value for money”
- Some areas need to be surveyed regularly due to mobile seabed.

Routine Re- Survey Planning Cycle



Civil Hydrography Programme - Prioritisation

Routine Re-Survey Planning Cycle



TITLE CIVIL HYDROGRAPHY PROGRAMME 2016-17		
OVERVIEW 	LEGEND Routine Resurvey CHP Area of Responsibility	 Maritime & Coastguard Agency
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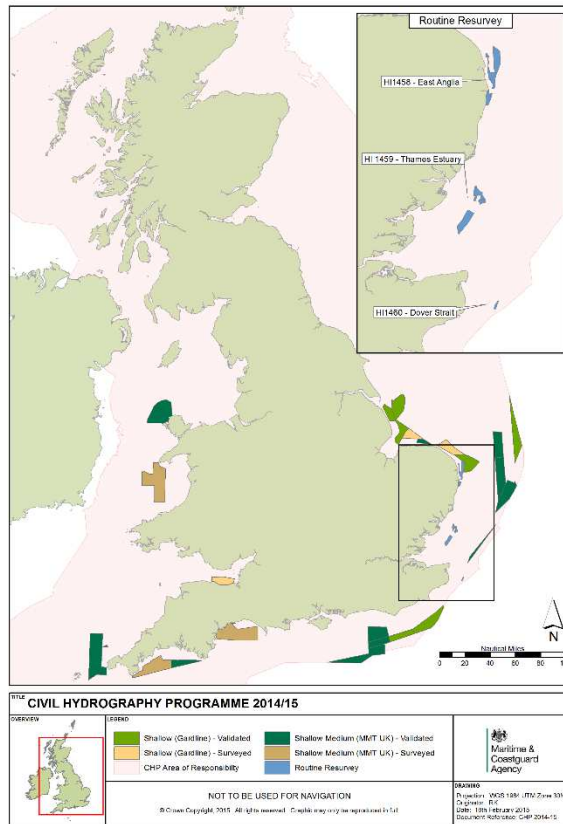


Core Survey Planning Cycle

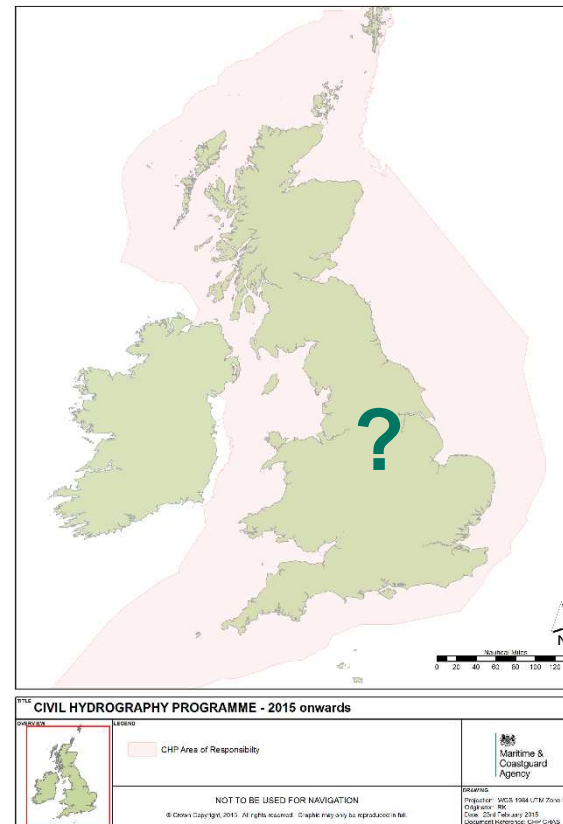


Civil Hydrography Programme - Prioritisation

Drawing up initial survey areas



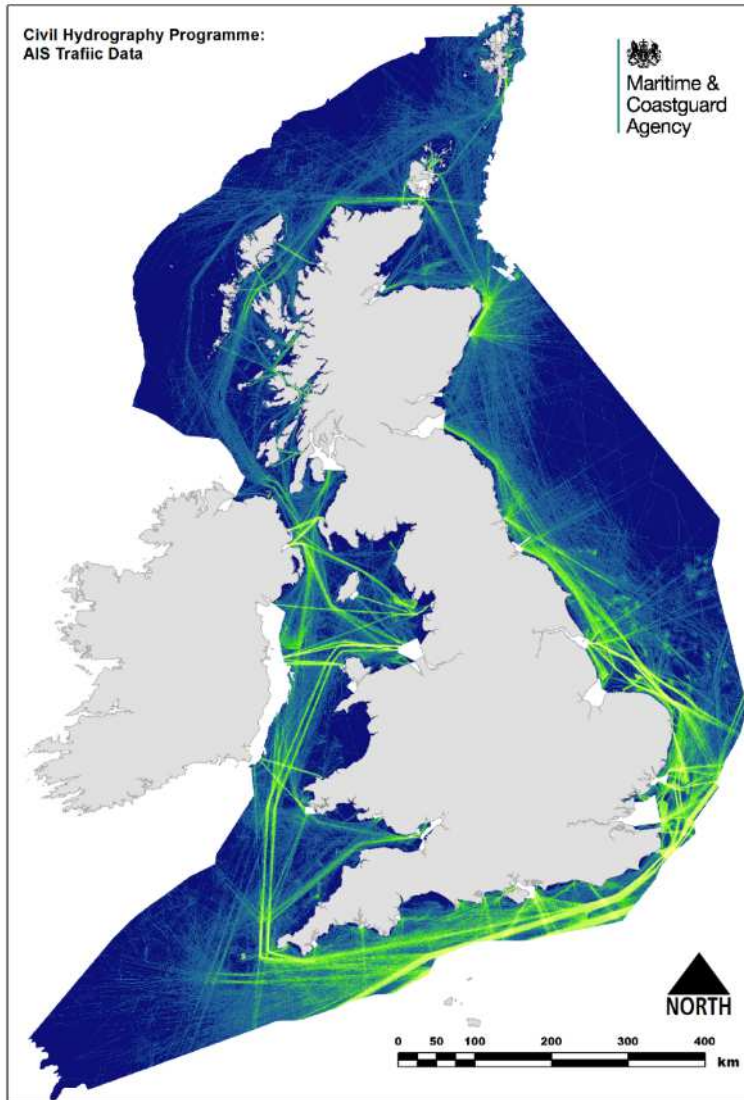
Last year's



Next year's

- MCA have built a bespoke GIS tool to identify CHP survey areas based on the Safety of Navigation to Mariners.

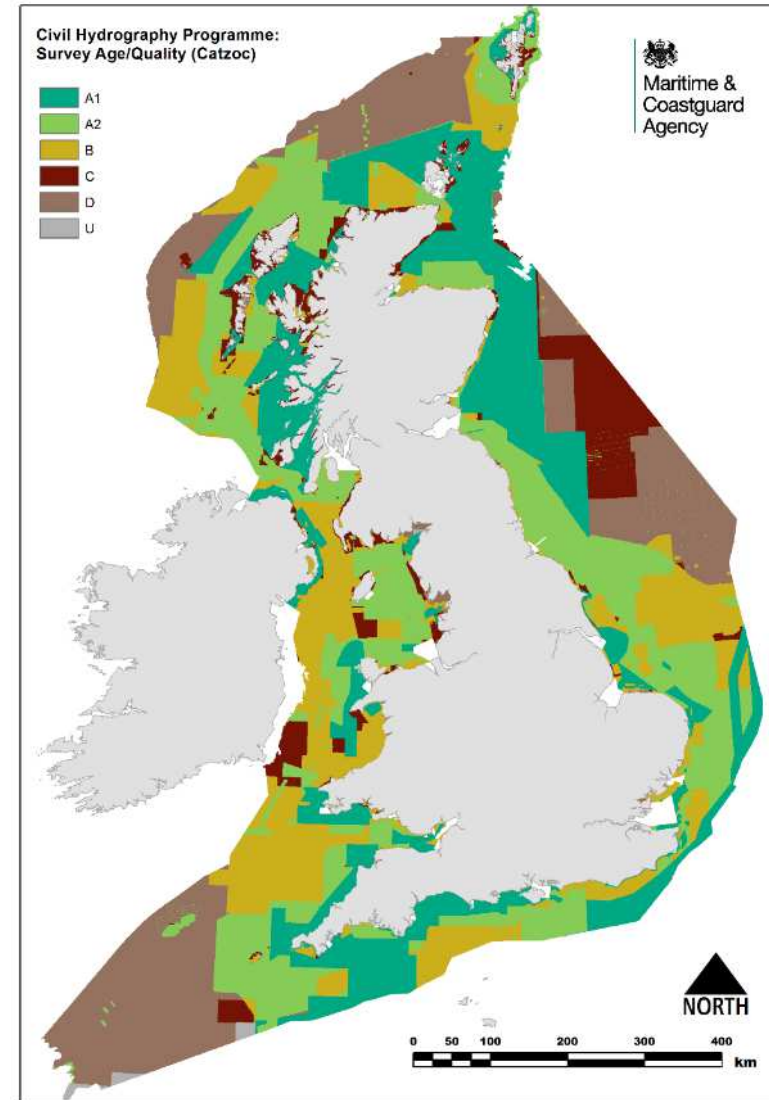
Survey Prioritisation Tool



Survey priorities based on:

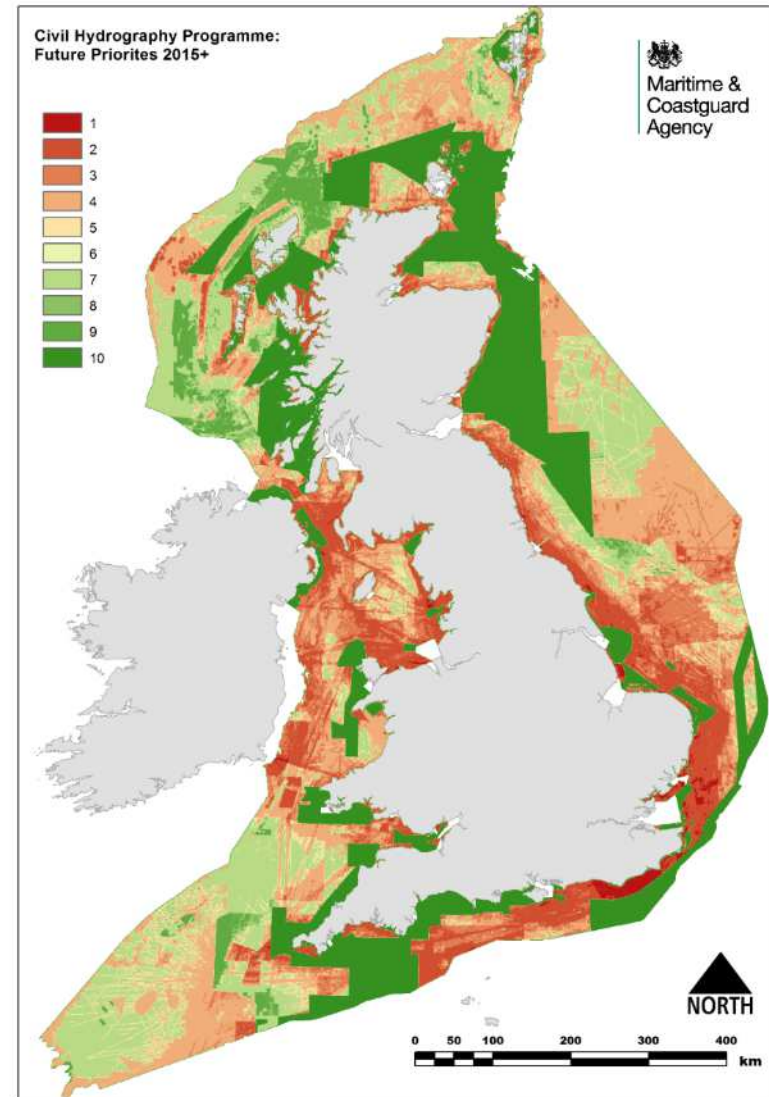
- Age/Quality of current survey data
- Traffic Density (AIS & RYA)
- Traffic Separation Schemes
- Under-keel clearance
- Nature of the Seabed
- Incident

Hotspots



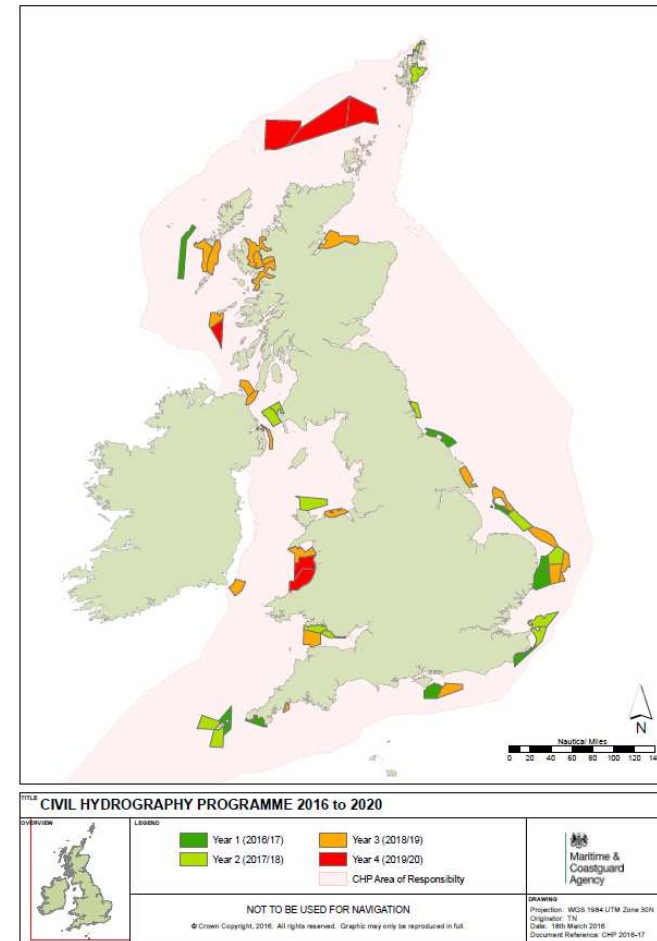
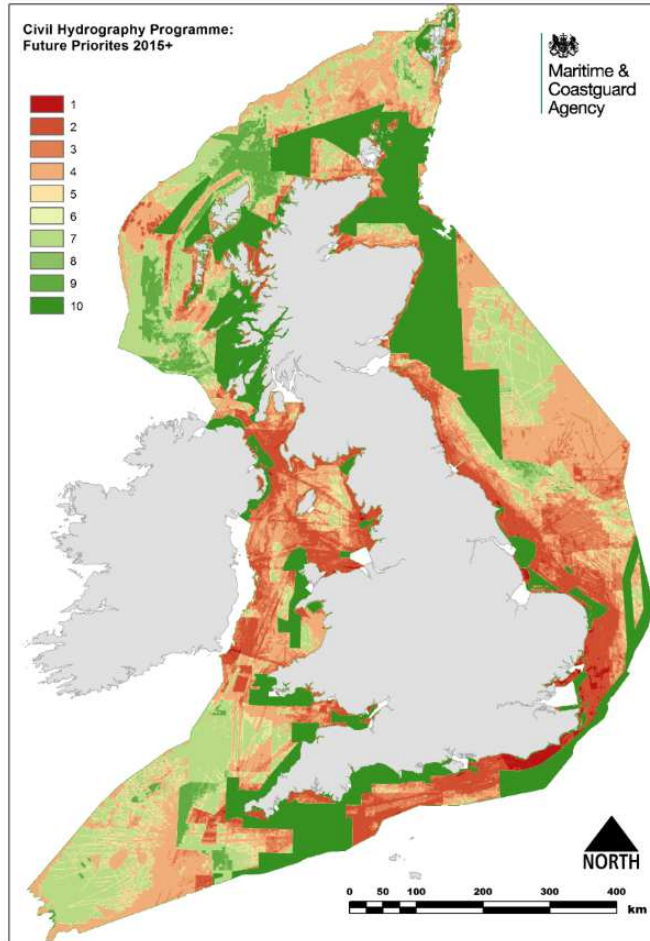
Survey Prioritisation Tool

- Combining & weighting the datasets through the GIS tool gives a UK wide picture of survey prioritisation.
- Identifies 9 years of high priority areas for the UK.
- As time passes, datasets can be added, updated or re-weighted to reflect changing maritime patterns.
- Have had significant interest on adapting what MCA have done to support seabed mapping within and outside of Europe.



Survey Prioritisation Tool

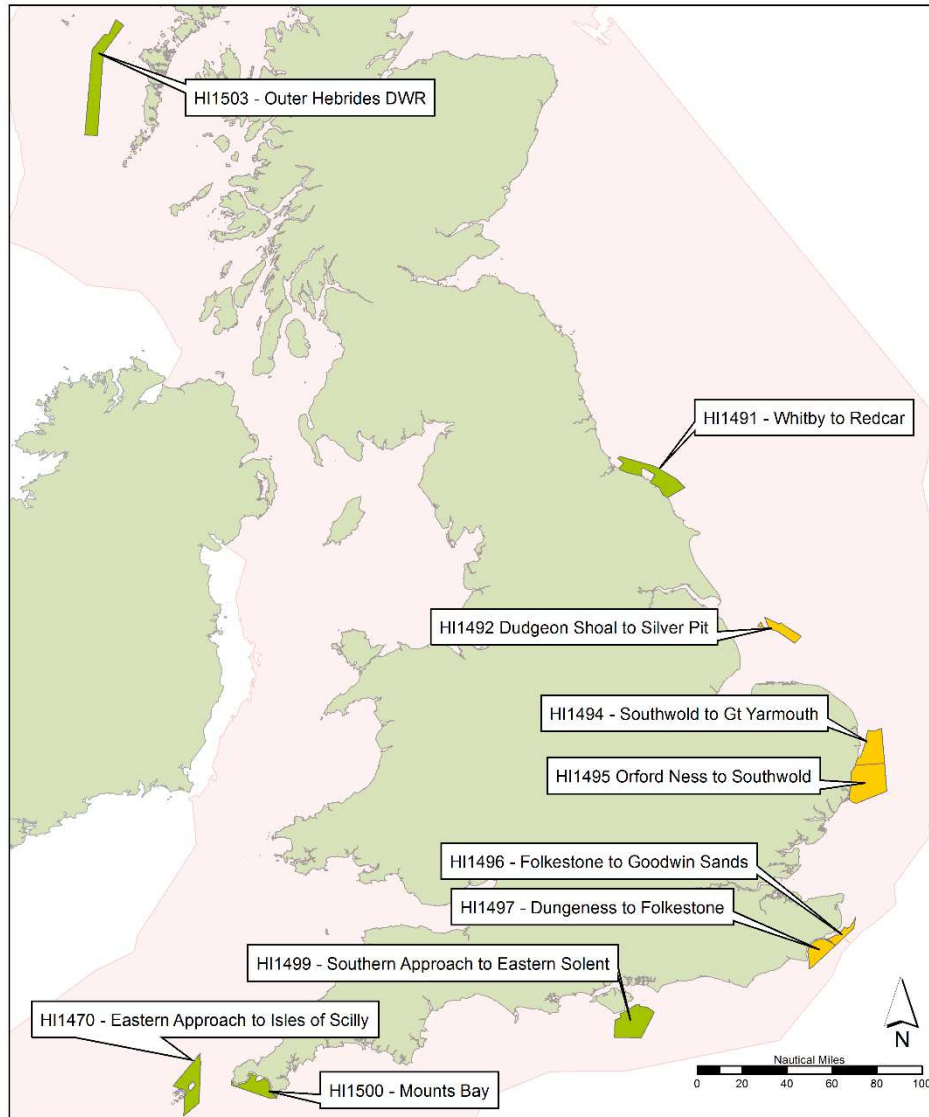
Multi-year survey plans designed





Prioritising Surveys

Survey Areas: 2016/17

- Efforts focussed onto following survey year
- Civil Hydrography Working Group
- Civil Hydrography Annual Seminar
- Quotes accepted & areas signed off
- Already surveyed 3 areas this year
- Work has started on finalising next years areas



TITLE CIVIL HYDROGRAPHY PROGRAMME 2016-17		
OVERVIEW 	LEGEND <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Shallow - Planned </div> <div style="text-align: center;"> Shallow to Medium - Planned </div> </div> <div style="text-align: center; margin-top: 10px;"> CHP Area of Responsibility </div>	 Maritime & Coastguard Agency
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Prioritising Surveys

Thanks!

Questions?

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