

# Sea Link

## Volume 6: Environmental Statement

Document 6.4.4.1

Part 4 Marine

Chapter 1

Physical Environment – Figures

Planning Inspectorate Reference: EN020026

Version: ~~DE~~

~~February~~ April 2026

Infrastructure Planning (Applications: Prescribed Forms and Procedure)  
Regulations 2009 Regulation 5(2)(a)

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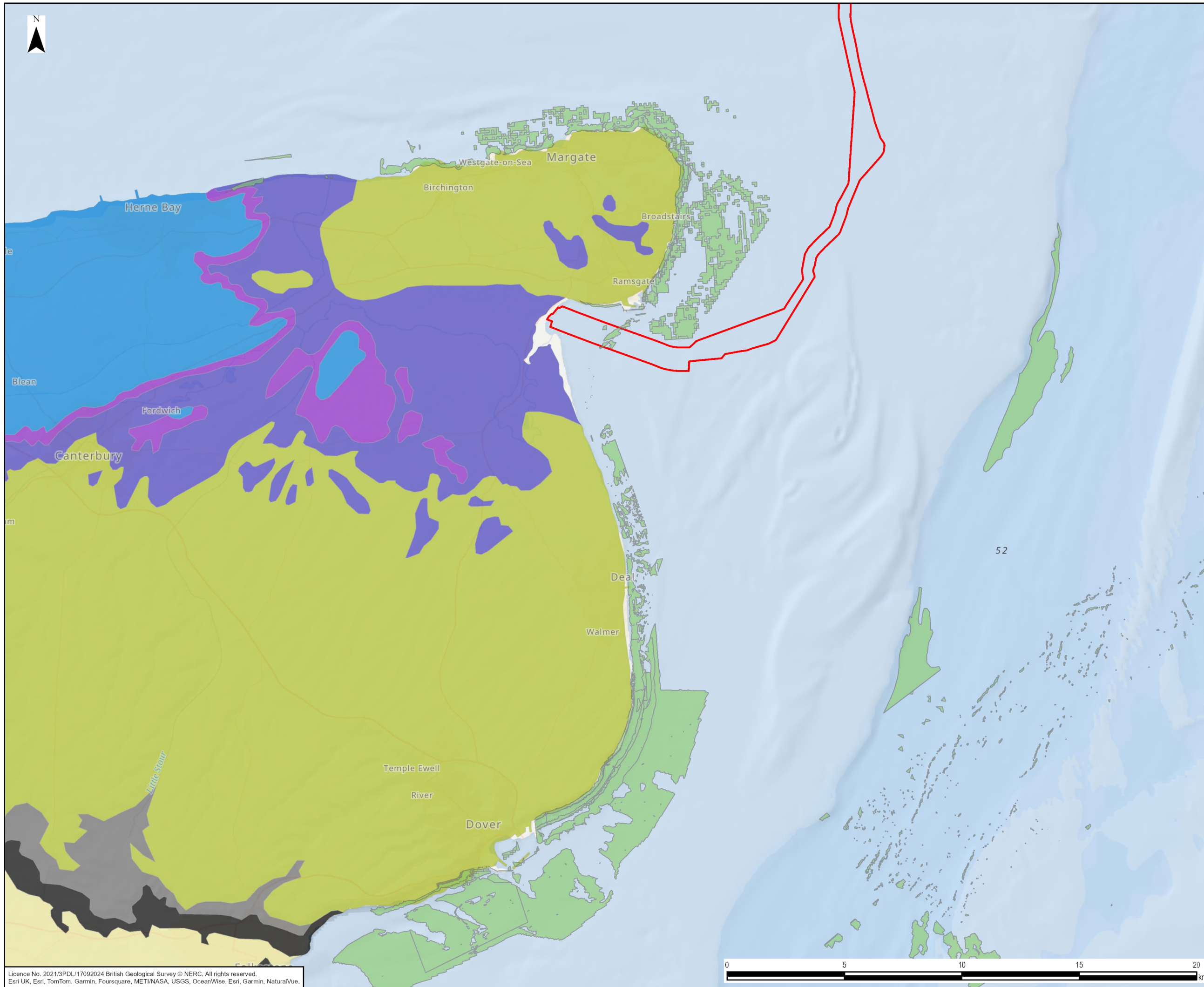
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[Application Document 6.4.4.1.17 Suffolk Offshore Bedforms, Including the Aldeburgh Napes and Aldeburgh Ridge](#)

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### Version History

Date	Issue	Status	Description / Changes
March 2025	A	Final	For DCO submission
November 2025	B	Final	For Deadline 2
January 2026	C	Final	For Deadline 3
February 2026	D	Final	For Deadline 4
<a href="#">April 2026</a>	<a href="#">E</a>	<a href="#">Final</a>	<a href="#">For Deadline 6</a>



- Legend**
- Offshore Scheme Boundary
  - JNCC Annex I Reefs
- Geology - Bedrock**
- Gault Formation and Upper Greensand Formation - Mudstone, Sandstone and Limestone
  - Grey Chalk Subgroup - Chalk
  - Lower Greensand Group - Sandstone and Mudstone
  - Lambeth Group - Clay, Silt, Sand and Gravel
  - Thanet Sand Formation - Sand, Silt and Clay
  - Thames Group - Clay, Silt, Sand and Gravel
  - Wealden Group - Mudstone, Siltstone and Sandstone
  - White Chalk Subgroup - Chalk

0	25/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

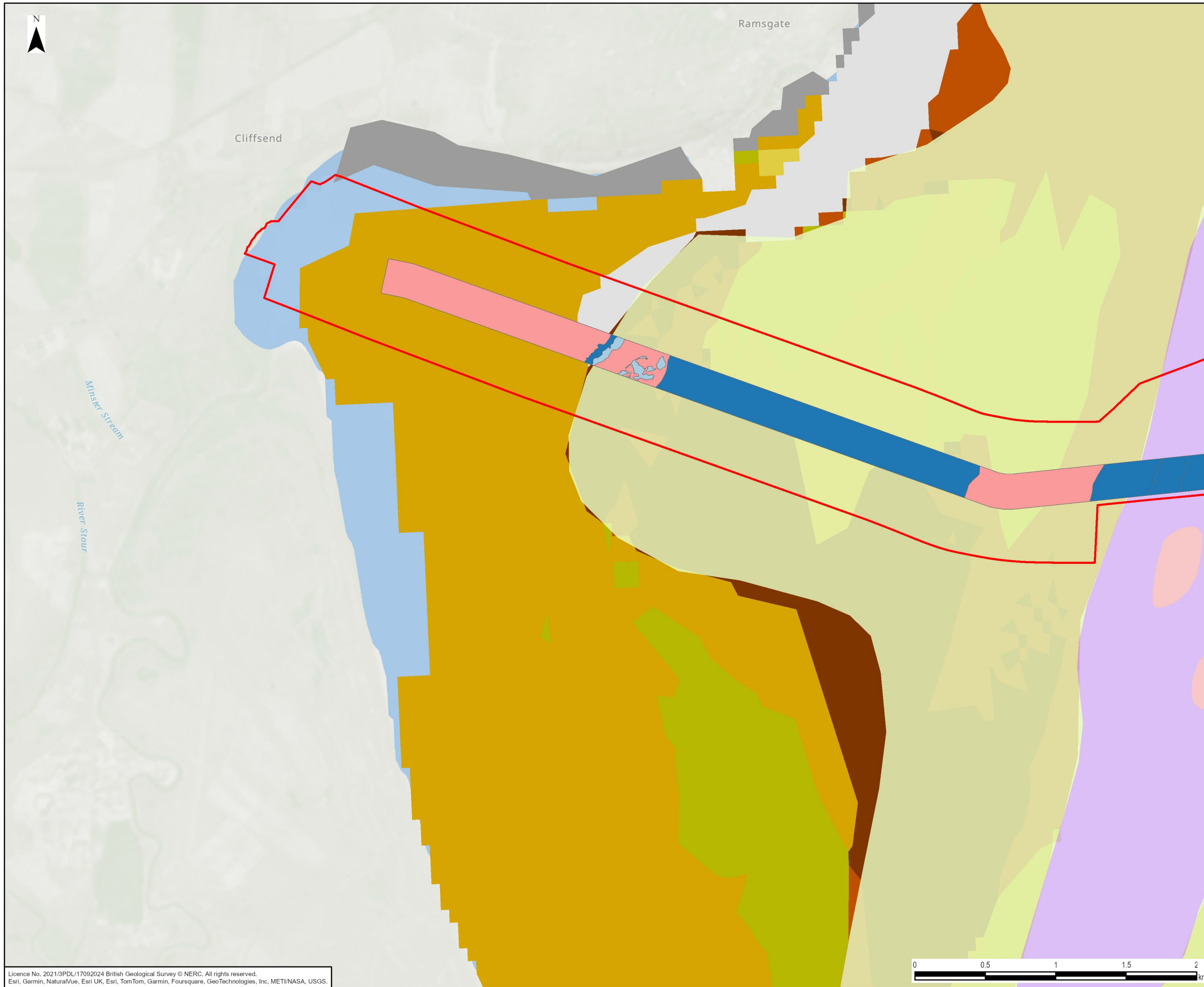
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Document Title: KENT LANDFALL GEOLOGY

Creator:	Date:	Checker:	Date:	Approver:	Date:
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- Legend**
- Offshore Scheme Boundary
  - Marine Geology Sediment**
  - Marine Sediments, Holocene (Undifferentiated)
  - Palaeozoic or Quaternary Rock and Sediment (Undifferentiated) [Offshore Only]
  - Pre-Quaternary Rocks (Undifferentiated)
  - MMT Habitat Classifications (Grouped)**
  - A4.2 Atlantic and Mediterranean moderate energy circalittoral rock
  - A5.1 Sublittoral coarse sediments
  - A5.4 Sublittoral mixed sediments
  - UKSeaMap 2018 Version 2 - EUNIS habitats**
  - A5.13: Infralittoral coarse sediment
  - A5.14: Circalittoral coarse sediment
  - A5.23 or A5.24: Infralittoral fine sand or infralittoral muddy sand
  - A5.25 or A5.26: Circalittoral fine sand or circalittoral muddy sand
  - A5.27: Deep circalittoral sand
  - No EUNIS habitat assigned
  - <all other values>

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Rev	Date	Description	GIS	Chk	App



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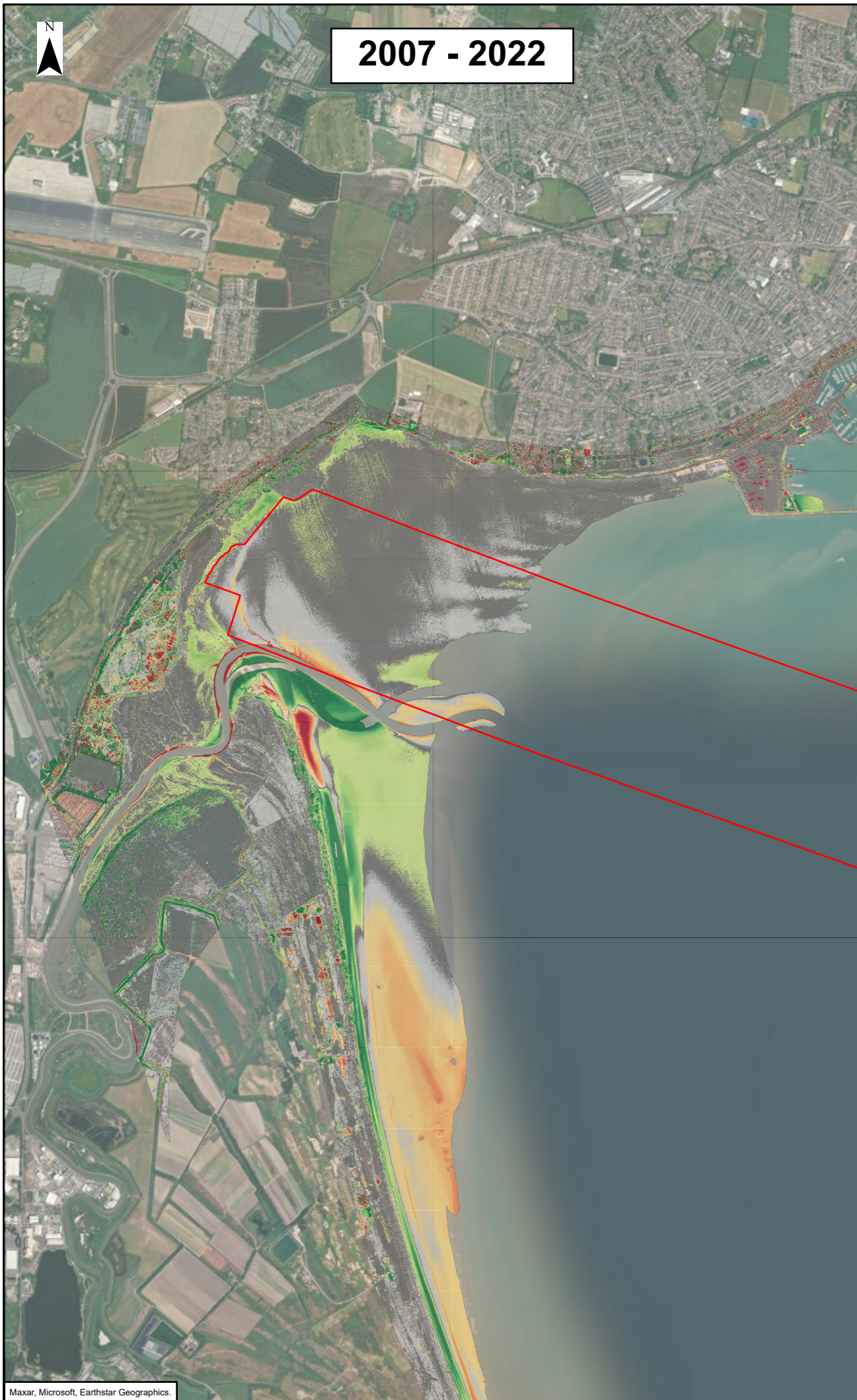
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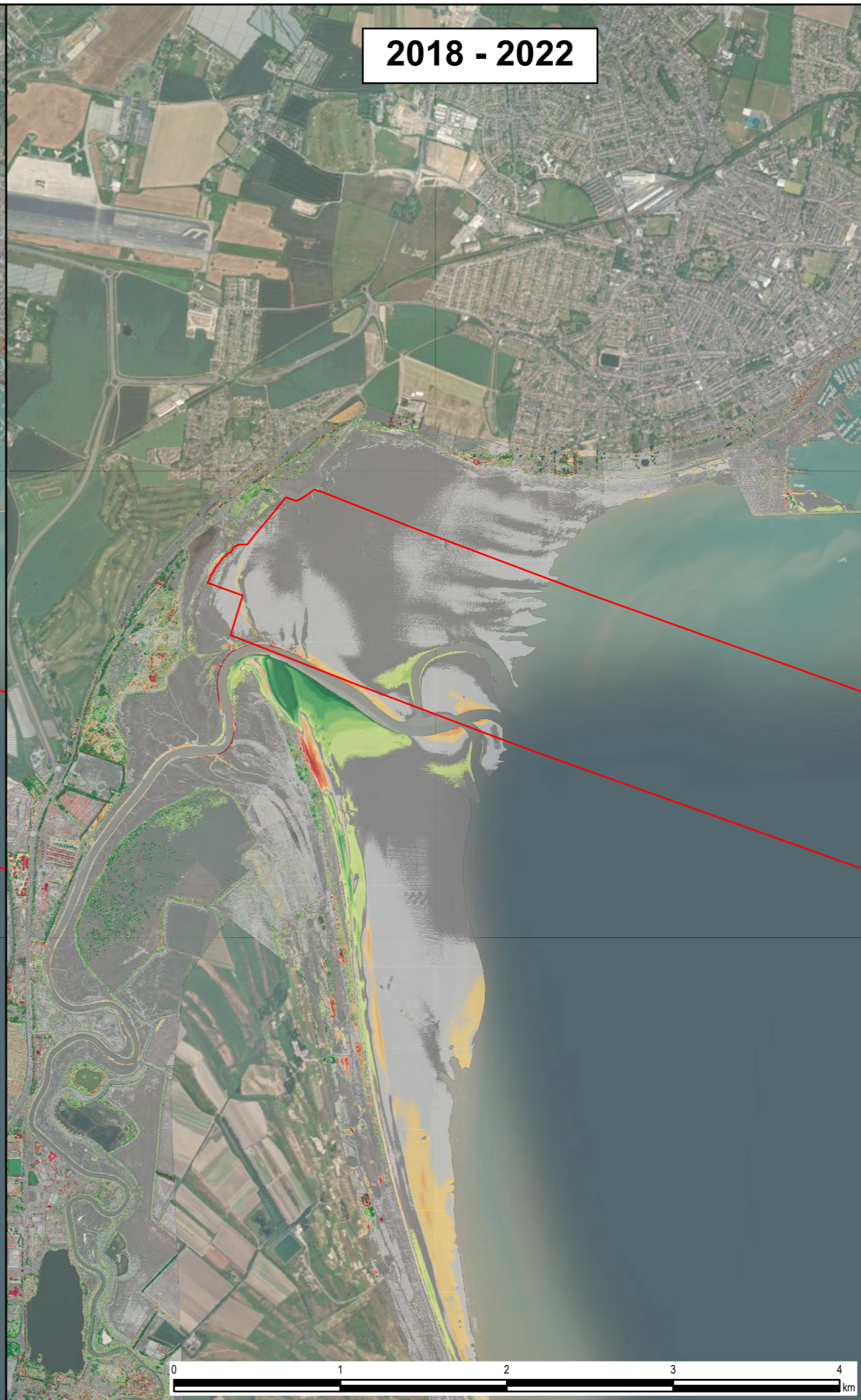


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Document Path: L:\Legacy\UKMCR1FP002-V11E\Proposal3512\SEAL GIS02\_Maps\Environmental Statement\Marine Physical Environment\Sea\_Link\_ES\_Fig6-4-4-1-2\_PegwellBaySurficialSediments\_20240925\_EB.aprx



2007 - 2022



2018 - 2022

Legend

Offshore Scheme Boundary

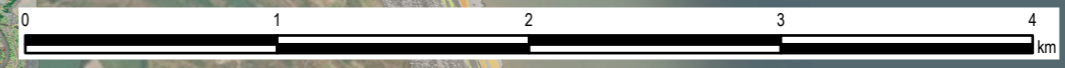
Elevation Difference (m)

- < -1.2
- 1.2 to -1.0
- 1.0 to -0.8
- 0.8 to -0.6
- 0.6 to -0.4
- 0.4 to -0.2
- 0.2 to 0.0
- 0.0 to 0.2
- 0.2 to 0.4
- 0.4 to 0.6
- 0.6 to 0.8
- 0.8 to 1.0
- > 1.2

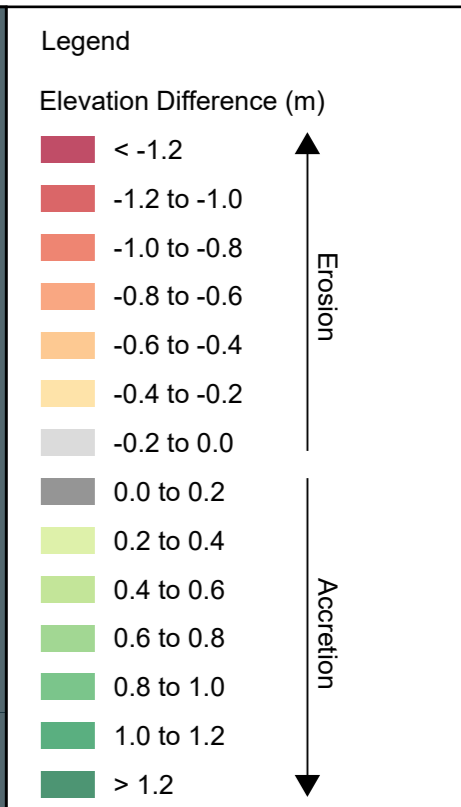
Erosion ↑

↓ Accretion

Maxar, Microsoft, Earthstar Geographics.



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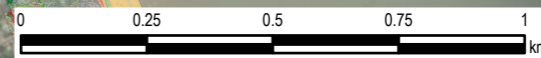
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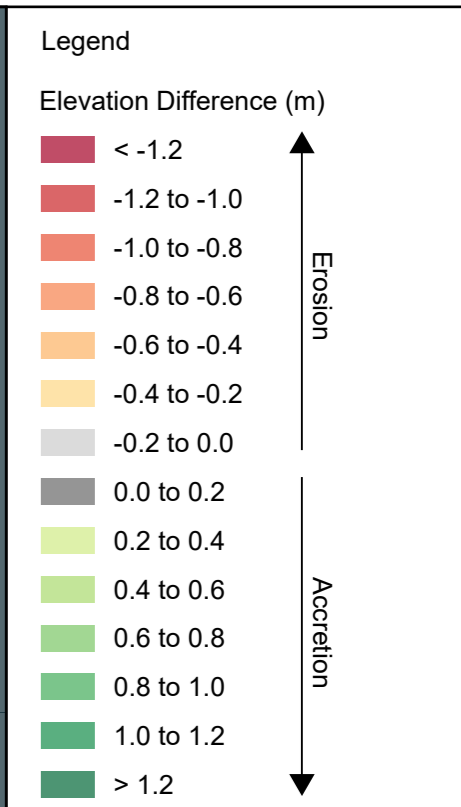
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2007-2022, BASED ON BATHYMETRIC SURVEY DATA  
(CHANNEL COASTAL OBSERVATORY)

Creator: EB	Date: 24/09/2024	Checker: DF	Date: 24/09/2024	Approver: IDC	Date: 24/09/2024
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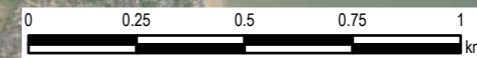
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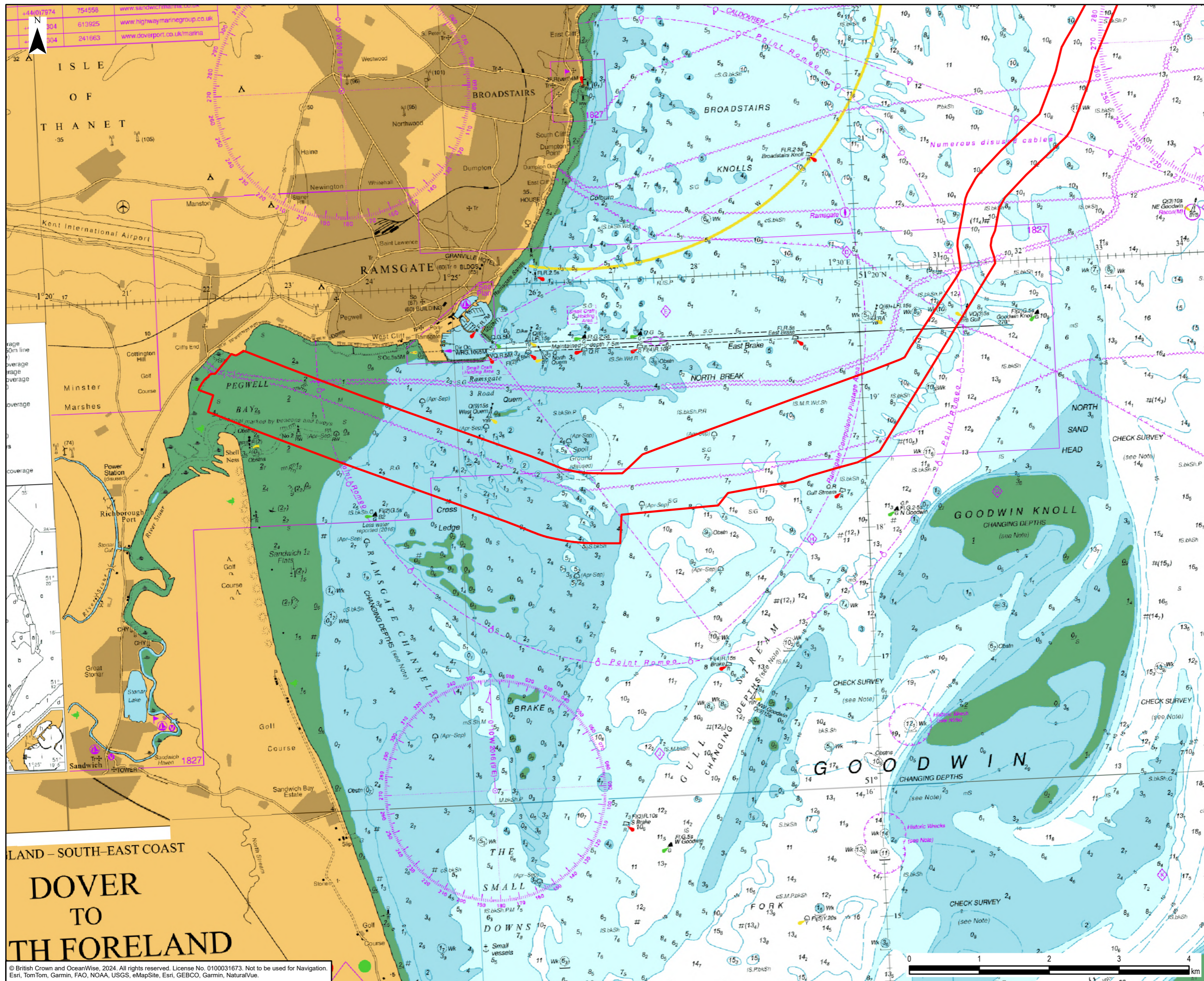
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 (CHANNEL COASTAL OBSERVATORY)

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EB	24/09/2024	DF	24/09/2024	IDC	24/09/2024

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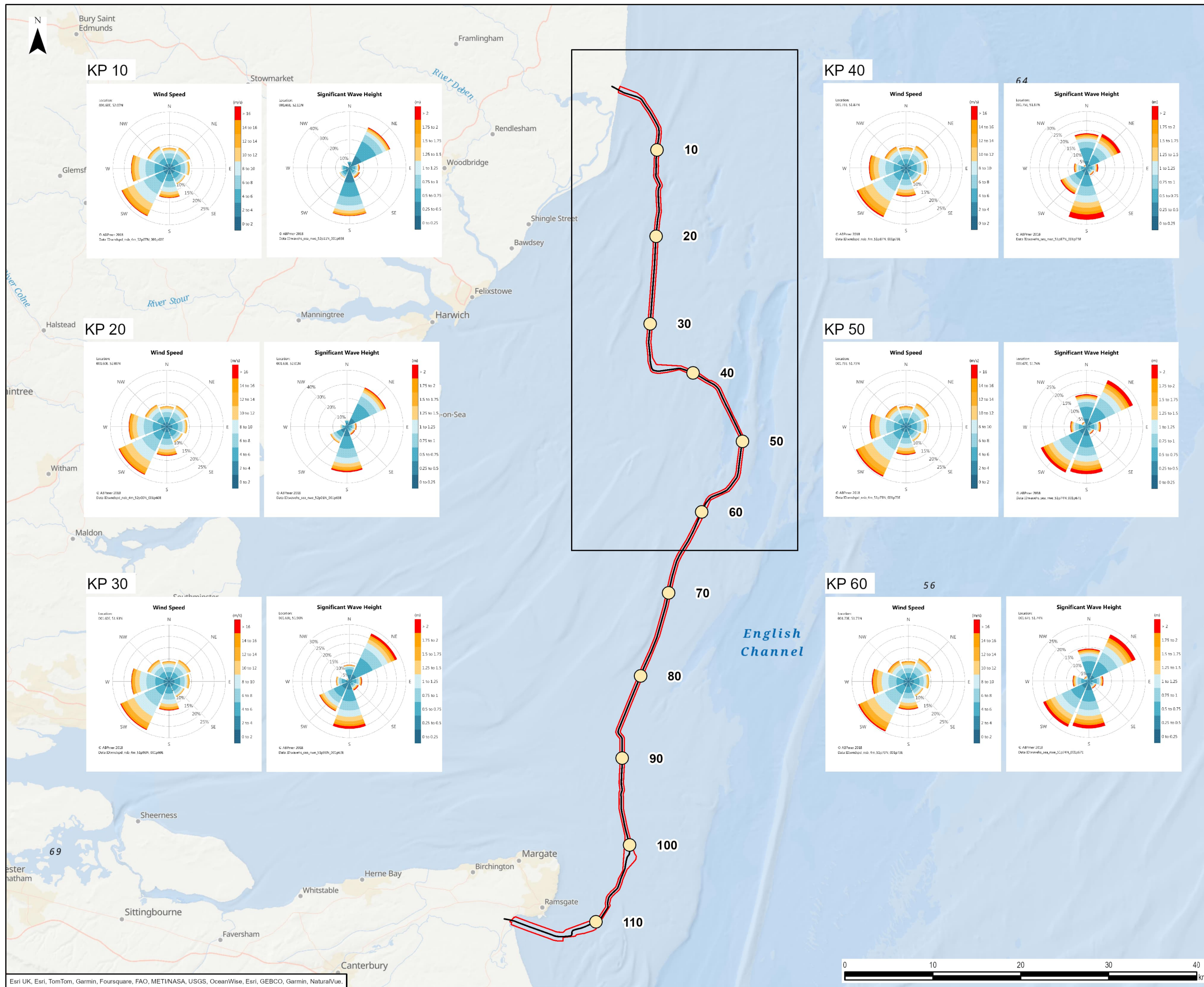
Legend  
 Offshore Scheme Boundary

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LAND - SOUTH-EAST COAST  
**DOVER TO NORTH FORELAND**

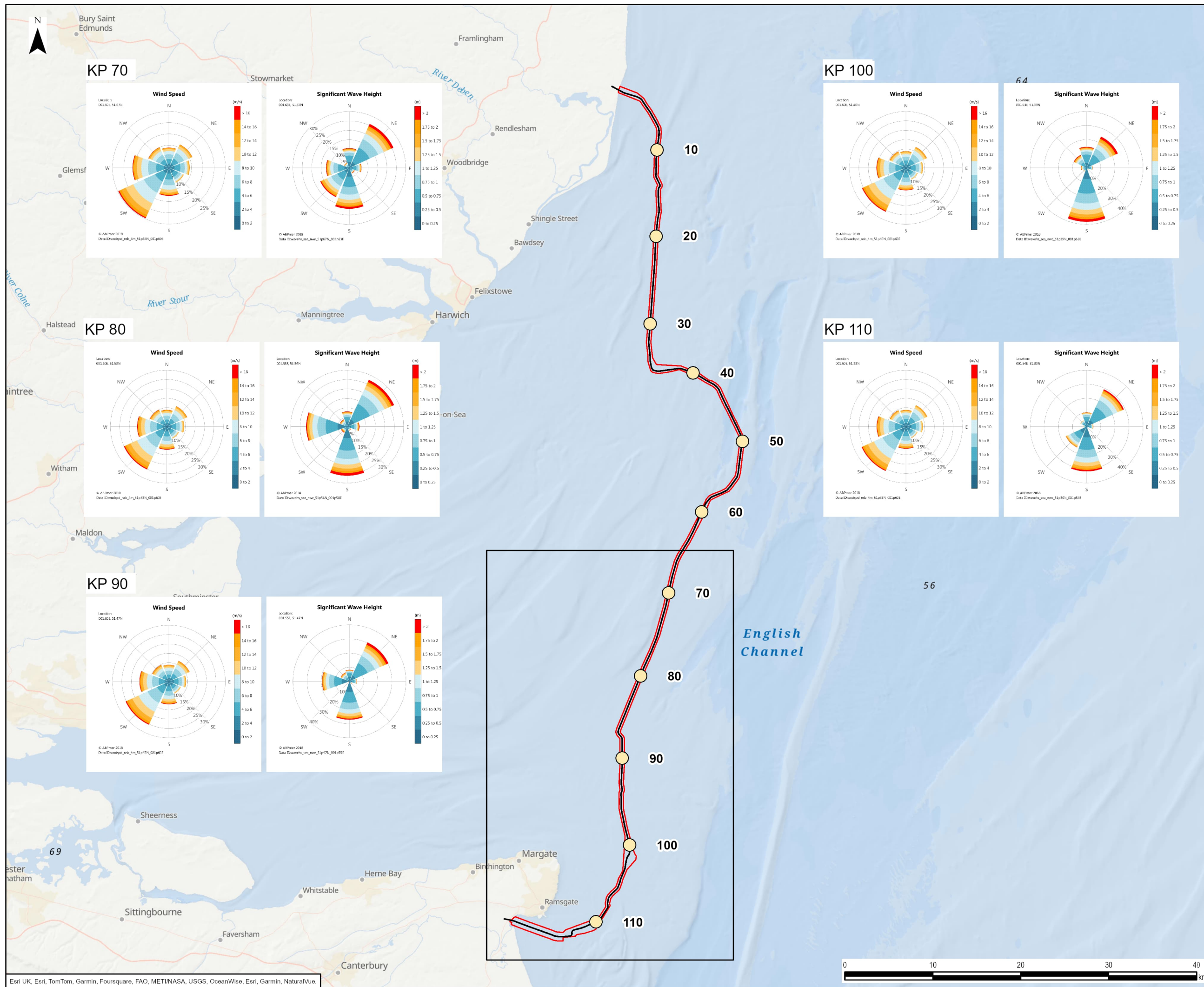
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Rev	Date	Description	GIS	Chk	App
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Document Title: NEARSHORE SANDBANKS, KENT LANDFALL					
Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	25/09/2024	DF	25/09/2024	IDC	25/09/2024
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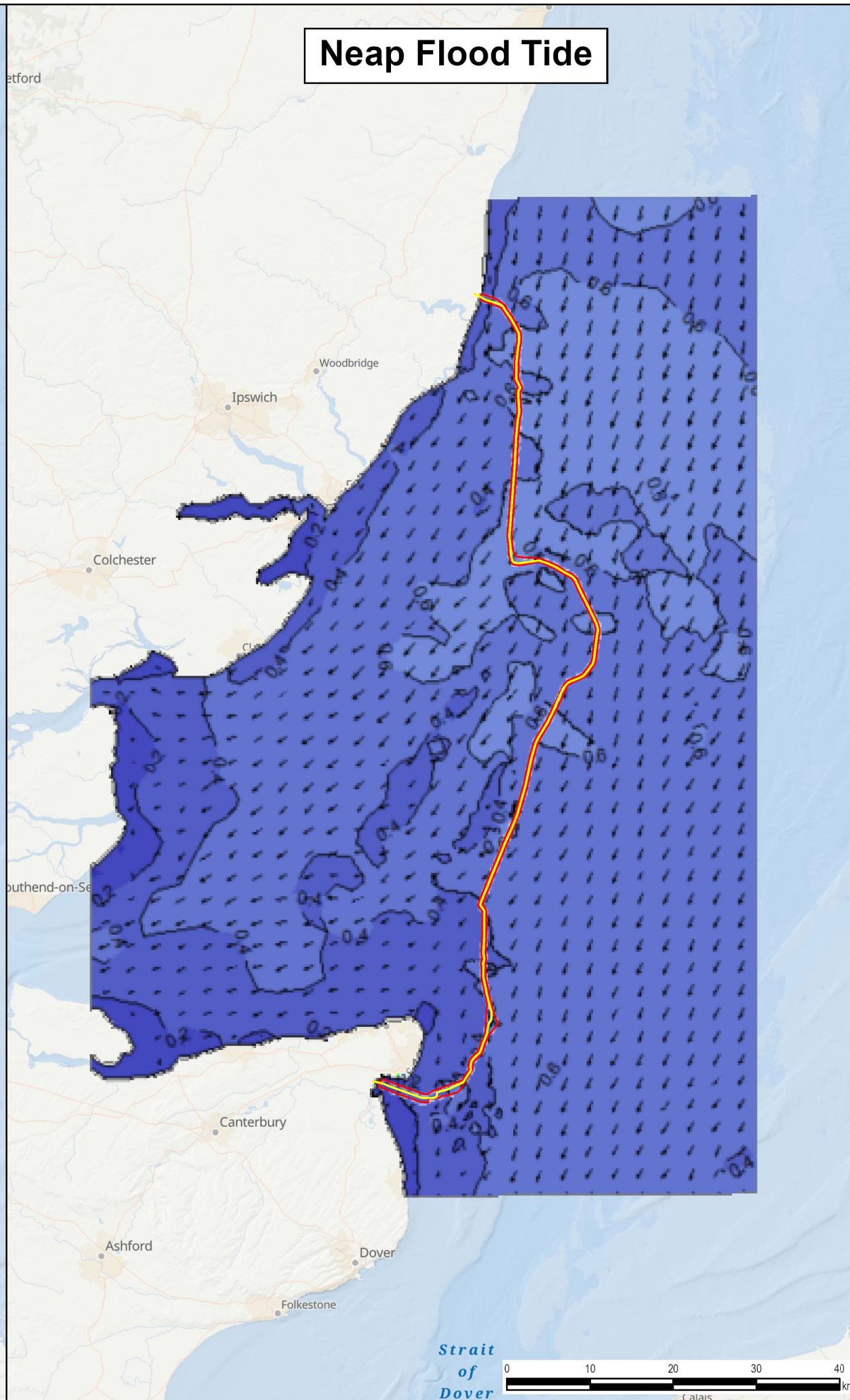
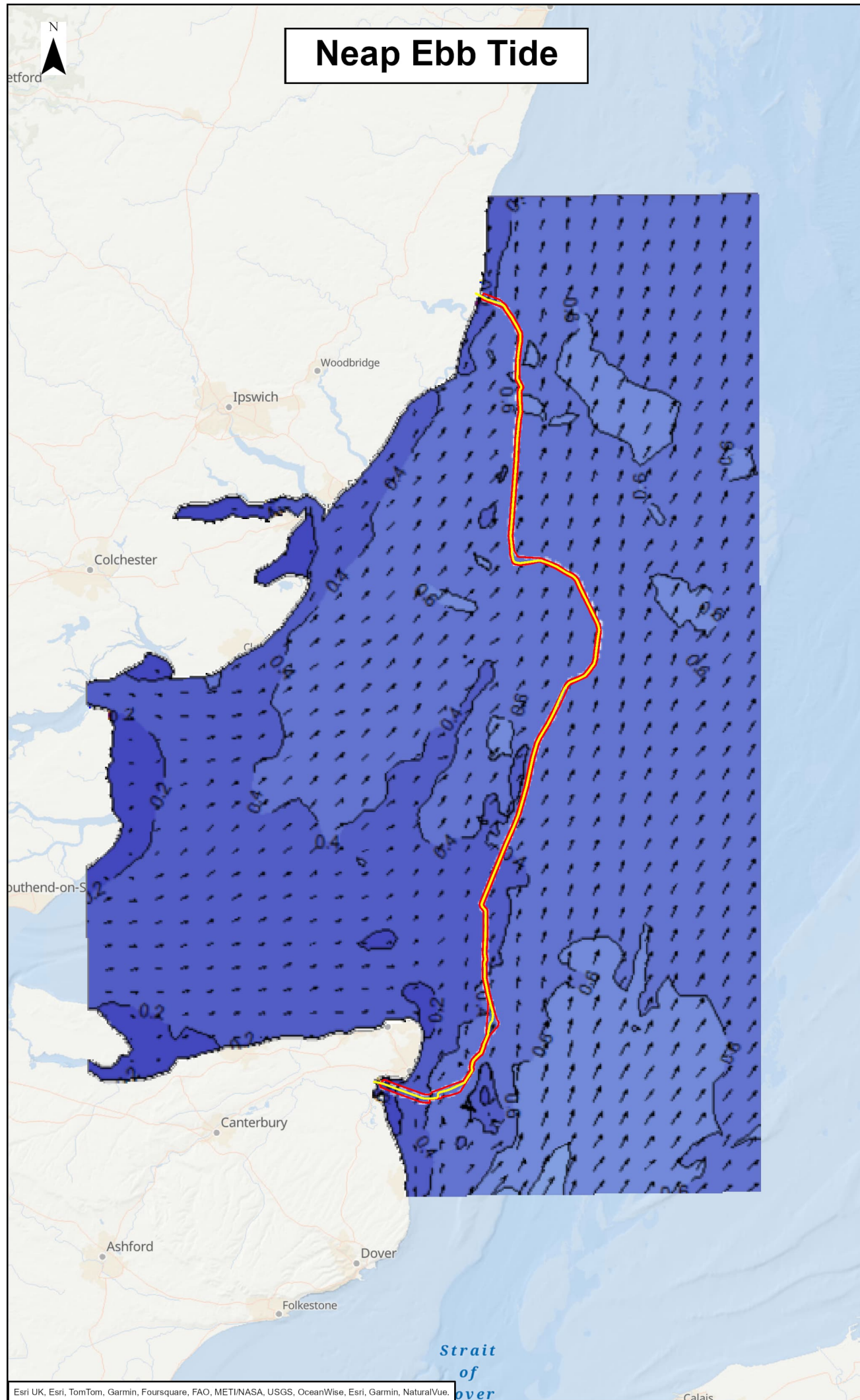
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- Offshore Scheme Boundary
  - Proposed Marine HVDC Cable Alignment
  - Marine Kilometre Point (KP)

0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
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- Legend**
- Offshore Scheme Boundary
  - Proposed Marine HVDC Cable Alignment
  - Marine Kilometre Point (KP)

0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
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Scheme: SEA LINK					
Document Title: WIND AND WAVE CLIMATE, KP 70 - 110 (ABPMER, 2018)					
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Document Ref: FIGURE 6.4.4.1.8	Scale: 1:400,000	Format: A3	Sheets: 1	Rev: 0	



**Legend**

- Offshore Scheme Boundary
- Proposed Marine HVDC Cable Alignment

**Current Speed (m/s)**

- Above 1.4
- 1.2 - 1.4
- 1.0 - 1.2
- 0.8 - 1.0
- 0.6 - 0.8
- 0.4 - 0.6
- 0.2 - 0.4
- 0.0 - 0.2
- Below 0.0

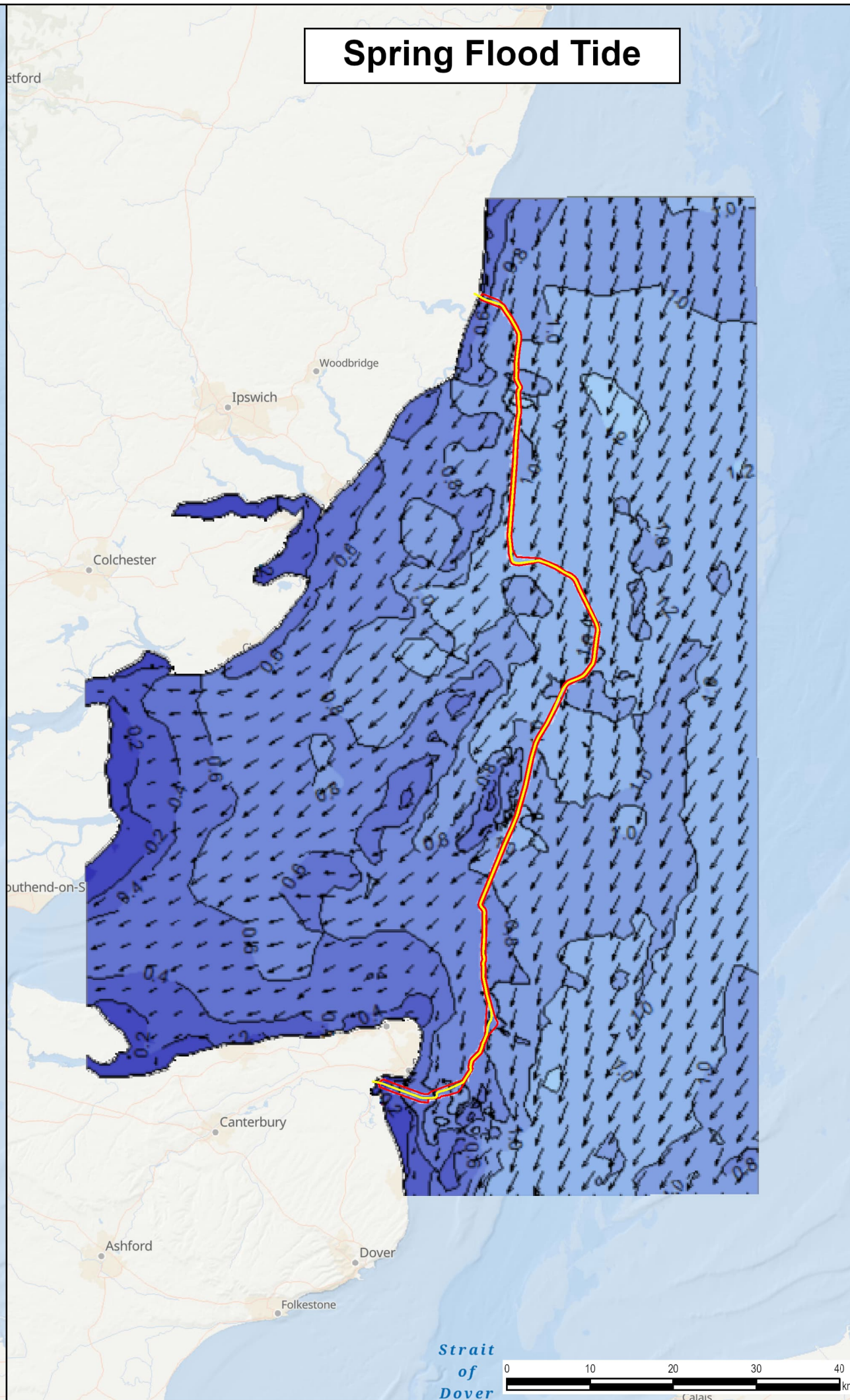
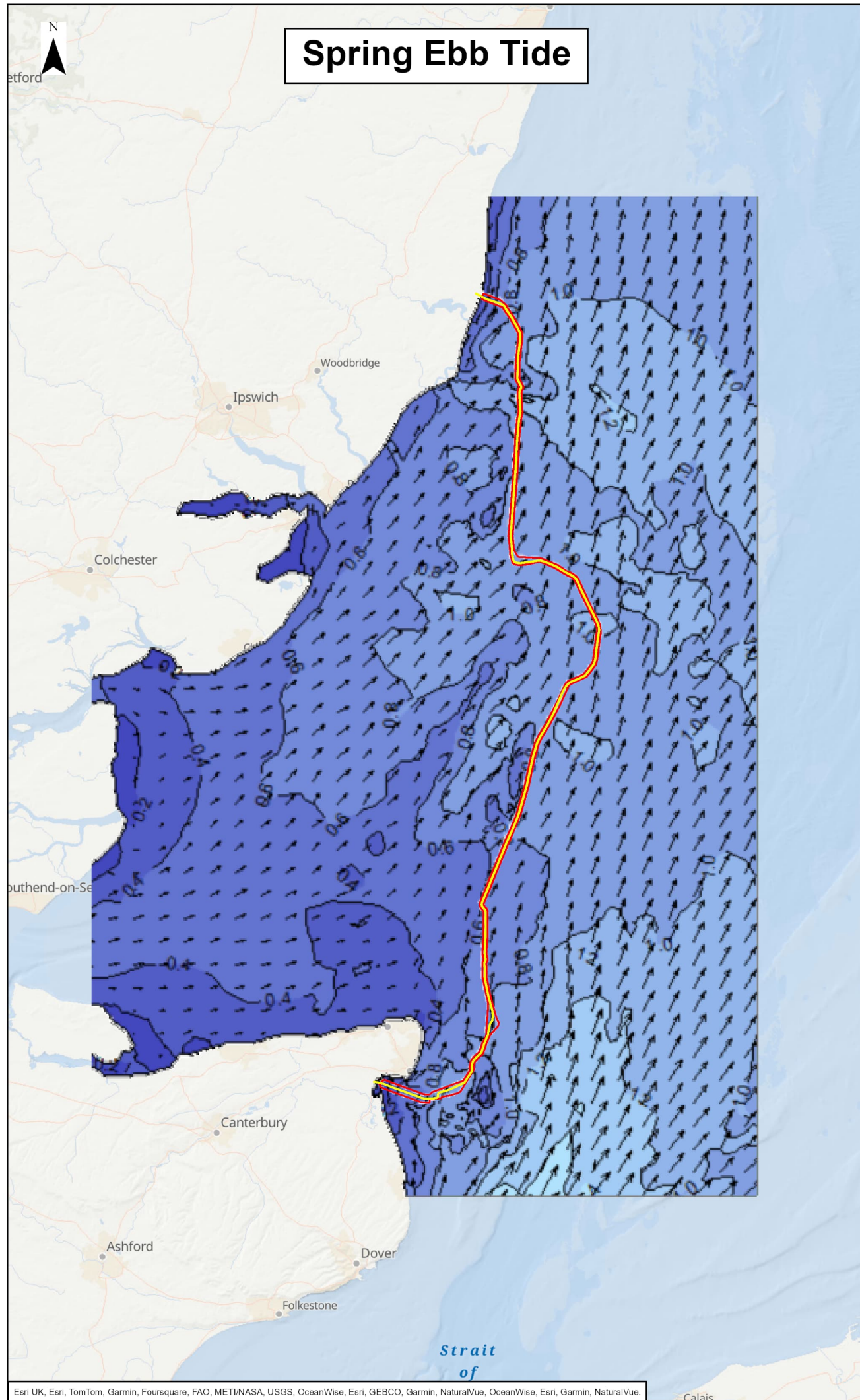
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Rev	Date	Description	GIS	Chk	App

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Document Ref: FIGURE 6.4.4.1.9	Scale: 1:600,000	Format: A3	Sheets: 1	Rev: 0	



**Legend**

- Offshore Scheme Boundary
- Proposed Marine HVDC Cable Alignment

**Current Speed (m/s)**

- Above 1.4
- 1.2 - 1.4
- 1.0 - 1.2
- 0.8 - 1.0
- 0.6 - 0.8
- 0.4 - 0.6
- 0.2 - 0.4
- 0.0 - 0.2
- Below 0.0

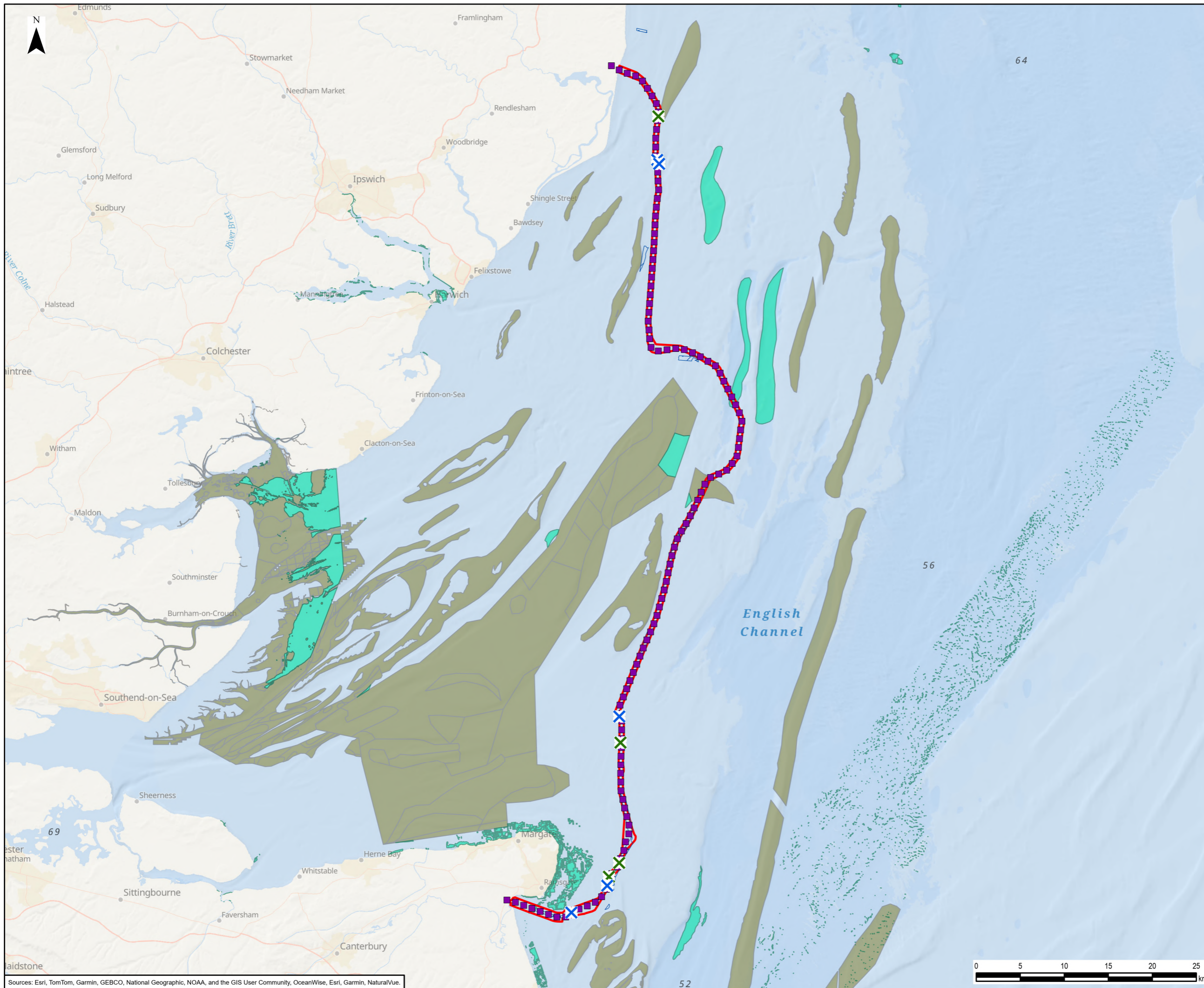
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Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: SEA LINK

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- Legend**
- Offshore Scheme Boundary
  - Kilometre Point
- Cable Crossings Requiring Concrete Mattress Protection**
- X FO Cable
  - X Power
- JNCC Annex I - Reefs**
- JNCC Annex I - Reefs
  - JNCC Annex I - Sandbanks
- MMT**
- Annex I - Sandbanks which are slightly covered by sea water all the time
- MMT Sediment - Primary**
- Clay
  - Gravel
  - Gravelly Sand to Sandy Gravel
  - Sand
  - Silt
  - Silty Sand
  - Stiff Clay
  - Very Coarse Sediment

0	05/02/2026	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

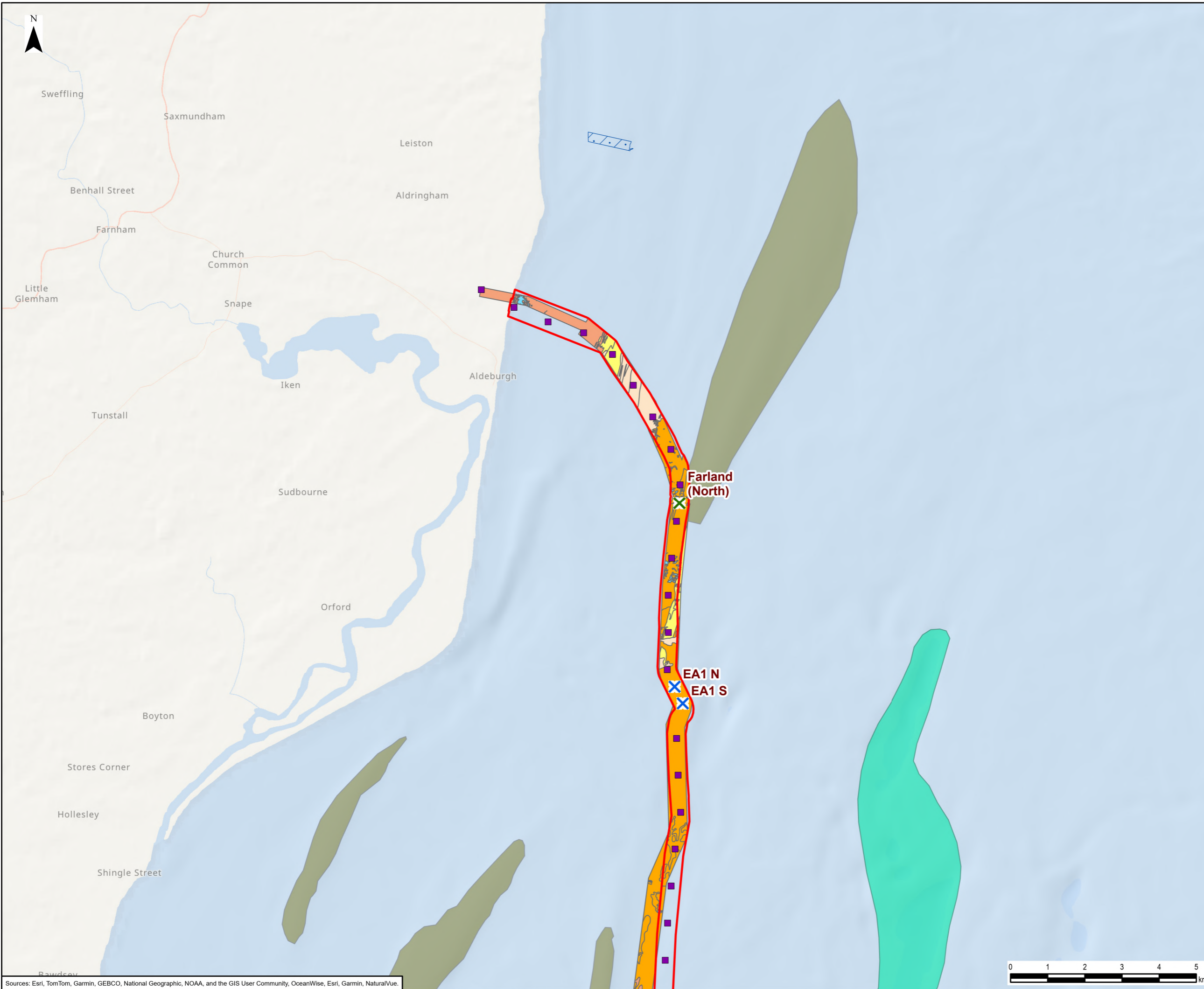


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Document Ref: FIGURE 6.4.4.1.11	Scale: 1:400,000	Format: A3	Sheets: 1	Rev: 0	





- Legend**
- Offshore Scheme Boundary
  - Kilometre Point
  - Cable Crossings Requiring Concrete Mattress Protection**
  - X FO Cable
  - X Power
  - JNCC Annex I - Reefs
  - JNCC Annex I - Sandbanks
  - Annex I - Sandbanks which are slightly covered by sea water all the time
  - MMT Sediment - Primary**
  - Clay
  - Gravel
  - Gravelly Sand to Sandy Gravel
  - Sand
  - Silt
  - Stiff Clay

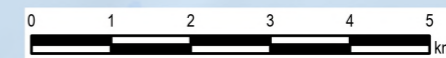
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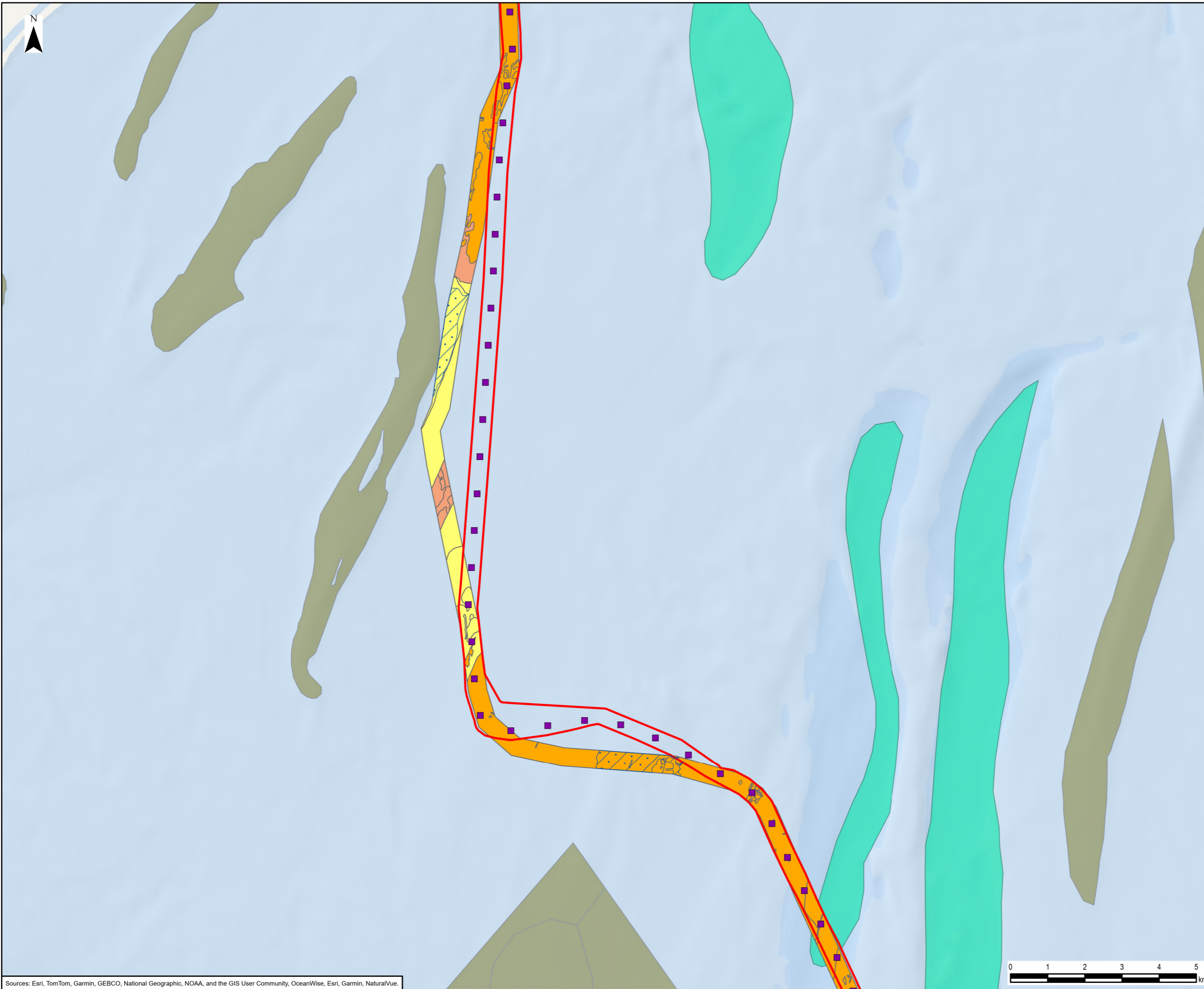


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- Legend**
- Offshore Scheme Boundary
  - Kilometre Point
  - JNCC Annex I - Reefs
  - JNCC Annex I - Sandbanks
  - Annex I - Sandbanks which are slightly covered by sea water all the time
- MMT Sediment - Primary**
- Clay
  - Gravelly Sand to Sandy Gravel
  - Sand
  - Silt
  - Stiff Clay

Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community, OceanWise, Esri, Garmin, NaturalVue.

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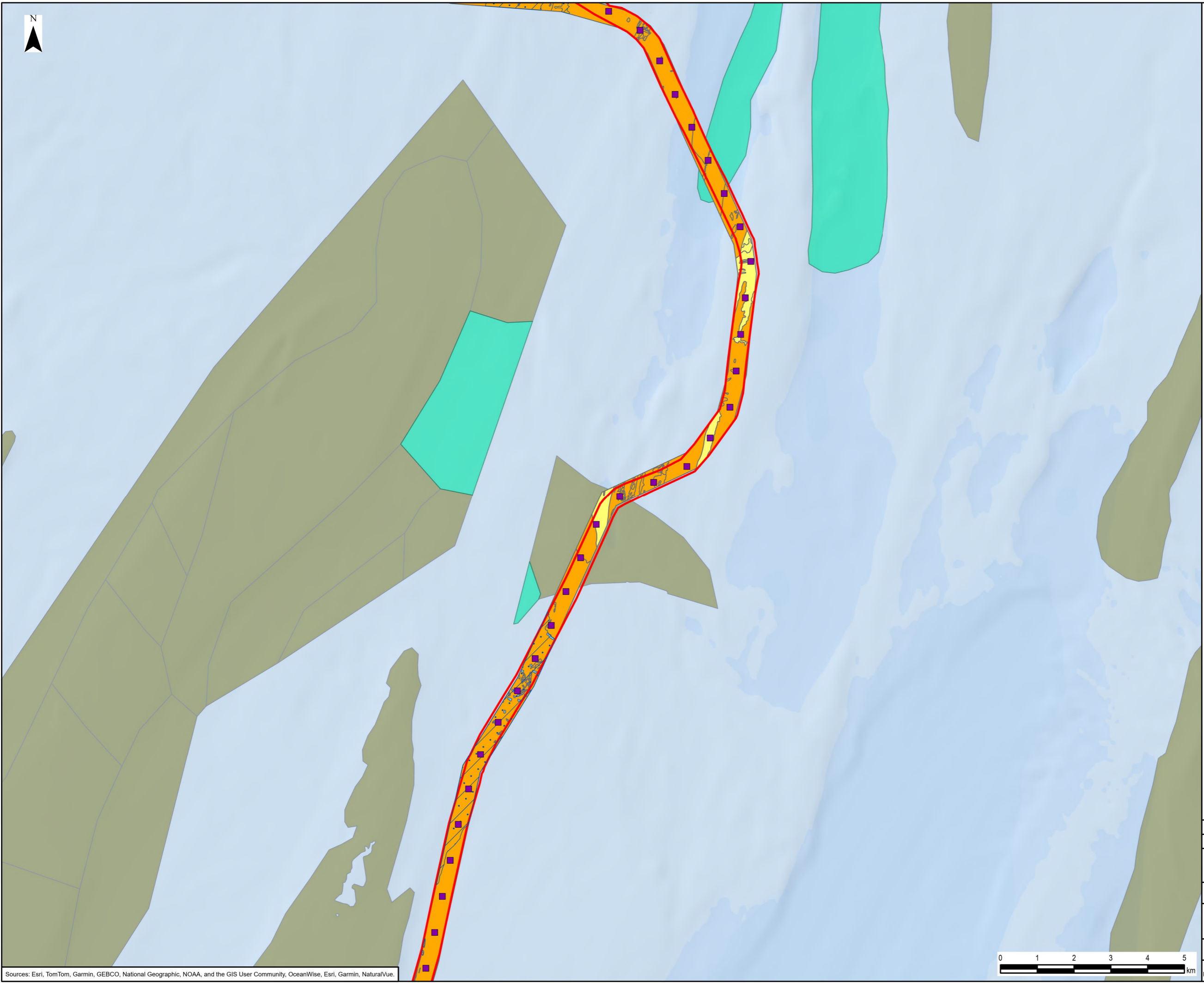
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**nationalgrid**











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SHEET 2 OF 5

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Legend

-  Offshore Scheme Boundary
-  Kilometre Point
-  JNCC Annex I - Reefs
-  JNCC Annex I - Sandbanks
-  Annex I - Sandbanks which are slightly covered by sea water all the time
- MMT Sediment - Primary**
-  Clay
-  Gravel
-  Gravelly Sand to Sandy Gravel
-  Sand
-  Stiff Clay

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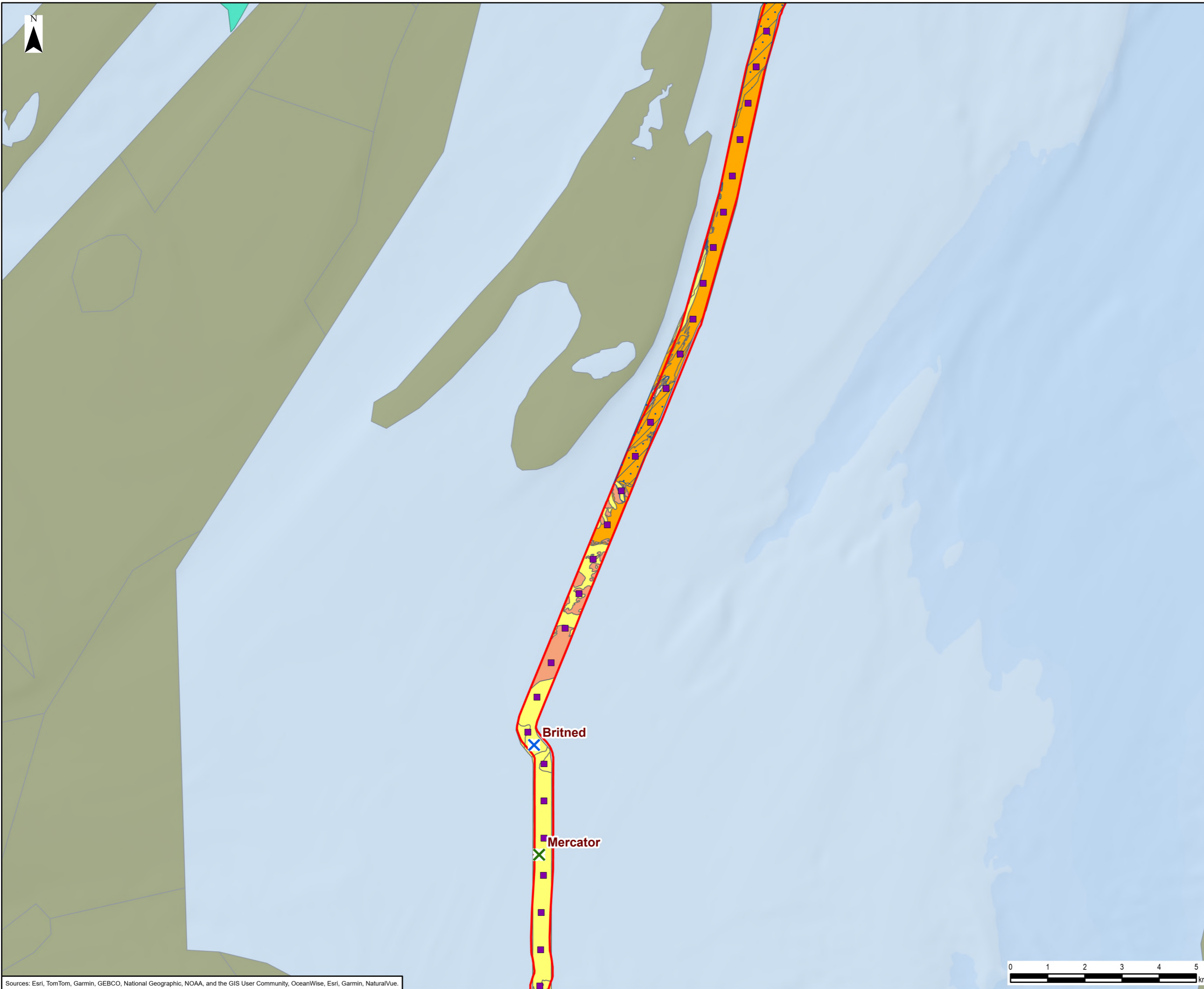
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SHEET 3 OF 5

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Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community, OceanWise, Esri, Garmin, NaturalVue.



- Legend**
- Offshore Scheme Boundary
  - Kilometre Point
  - X FO Cable
  - X Power
  - JNCC Annex I - Reefs
  - JNCC Annex I - Sandbanks
  - Annex I - Sandbanks which are slightly covered by sea water all the time
  - MMT Sediment - Primary**
  - Clay
  - Gravelly Sand to Sandy Gravel
  - Sand
  - Silt

0	05/02/2026	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App



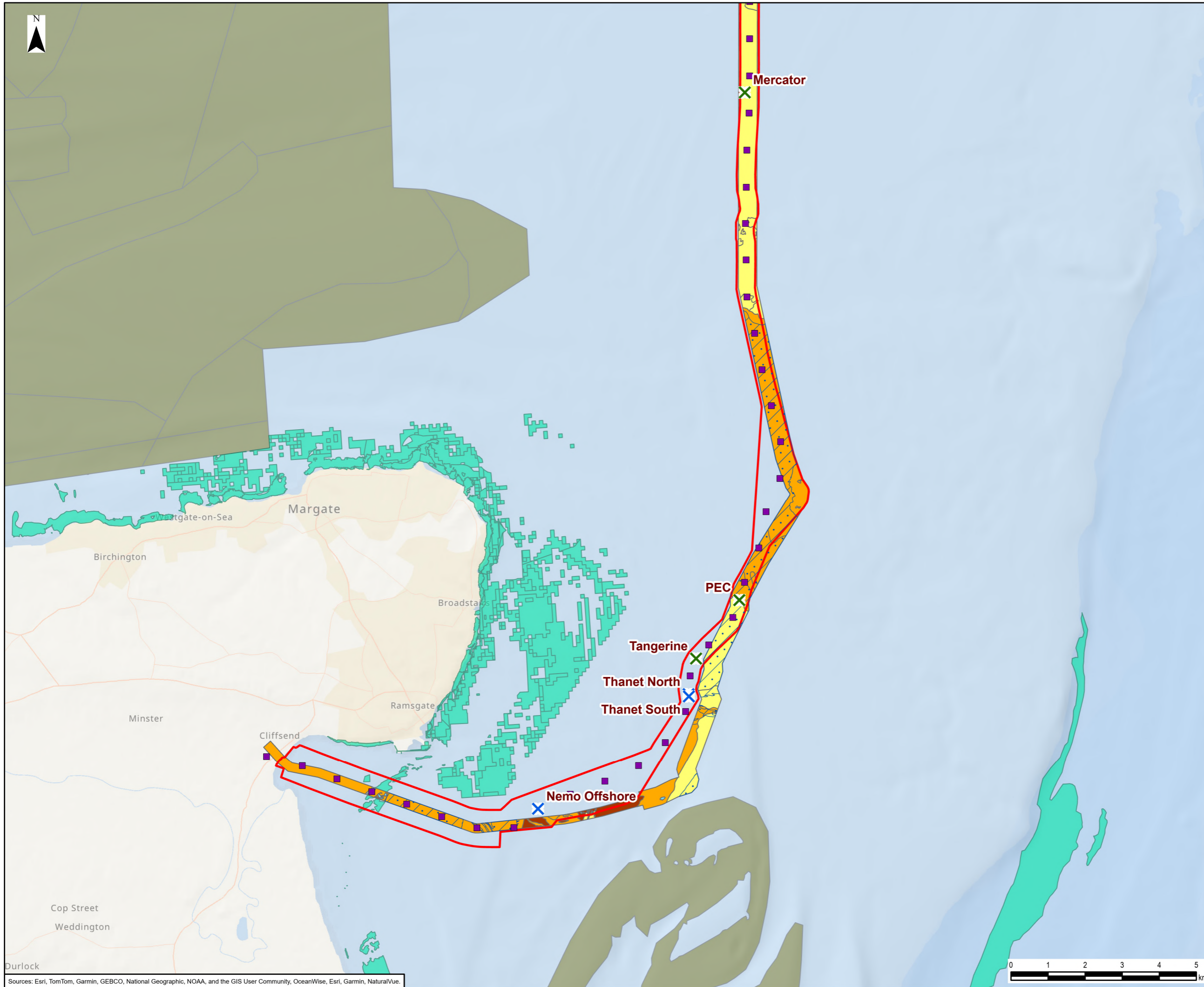
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Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community, OceanWise, Esri, Garmin, NaturalVue.



- Legend**
- Offshore Scheme Boundary
  - Kilometre Point
  - Cable Crossings Requiring Concrete Mattress Protection**
  - X FO Cable
  - X Power
  - JNCC Annex I - Reefs
  - JNCC Annex I - Sandbanks
  - Annex I - Sandbanks which are slightly covered by sea water all the time
  - MMT Sediment - Primary**
  - Gravel
  - Gravelly Sand to Sandy Gravel
  - Sand
  - Stiff Clay
  - Very Coarse Sediment

Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community, OceanWise, Esri, Garmin, NaturalVue.

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Leiston

Aldringham


Leiston -  
Aldeburgh  
SSSI

River Alde

Aldeburgh

Legend

 Offshore Scheme Boundary

 Site of Special Scientific Interest (SSSI)

0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

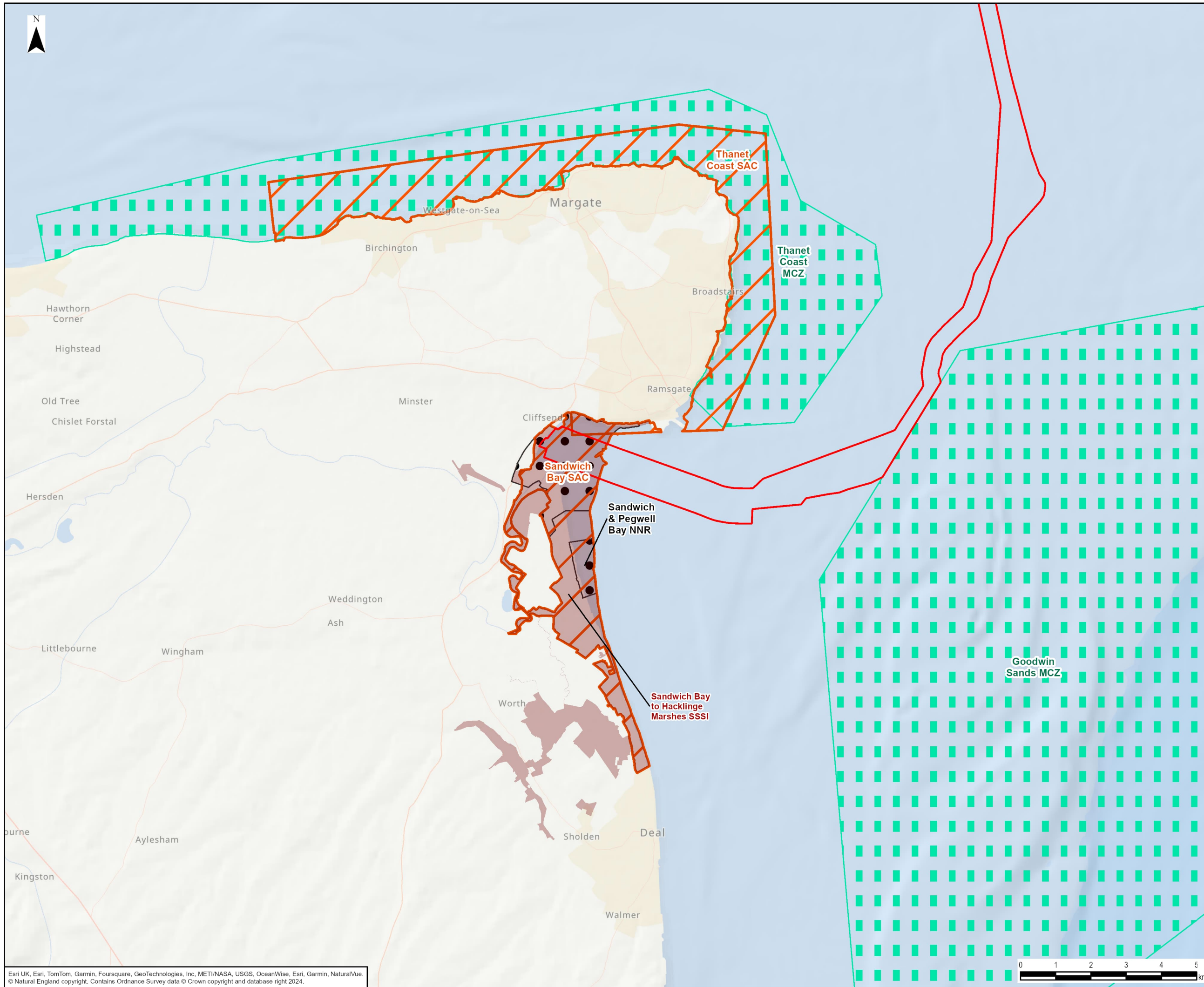
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EB	24/09/2024	DF	24/09/2024	IDC	24/09/2024

Document Ref:	Scale:	Format:	Sheets:	Rev:
FIGURE 6.4.4.1.12	1:30,000	A3	1	0





Legend

-  Offshore Scheme Boundary
-  Special Area of Conservation (SAC)
-  Site of Special Scientific Interest (SSSI)
-  National Nature Reserve (NNR)
-  Marine Conservation Zone (MCZ)

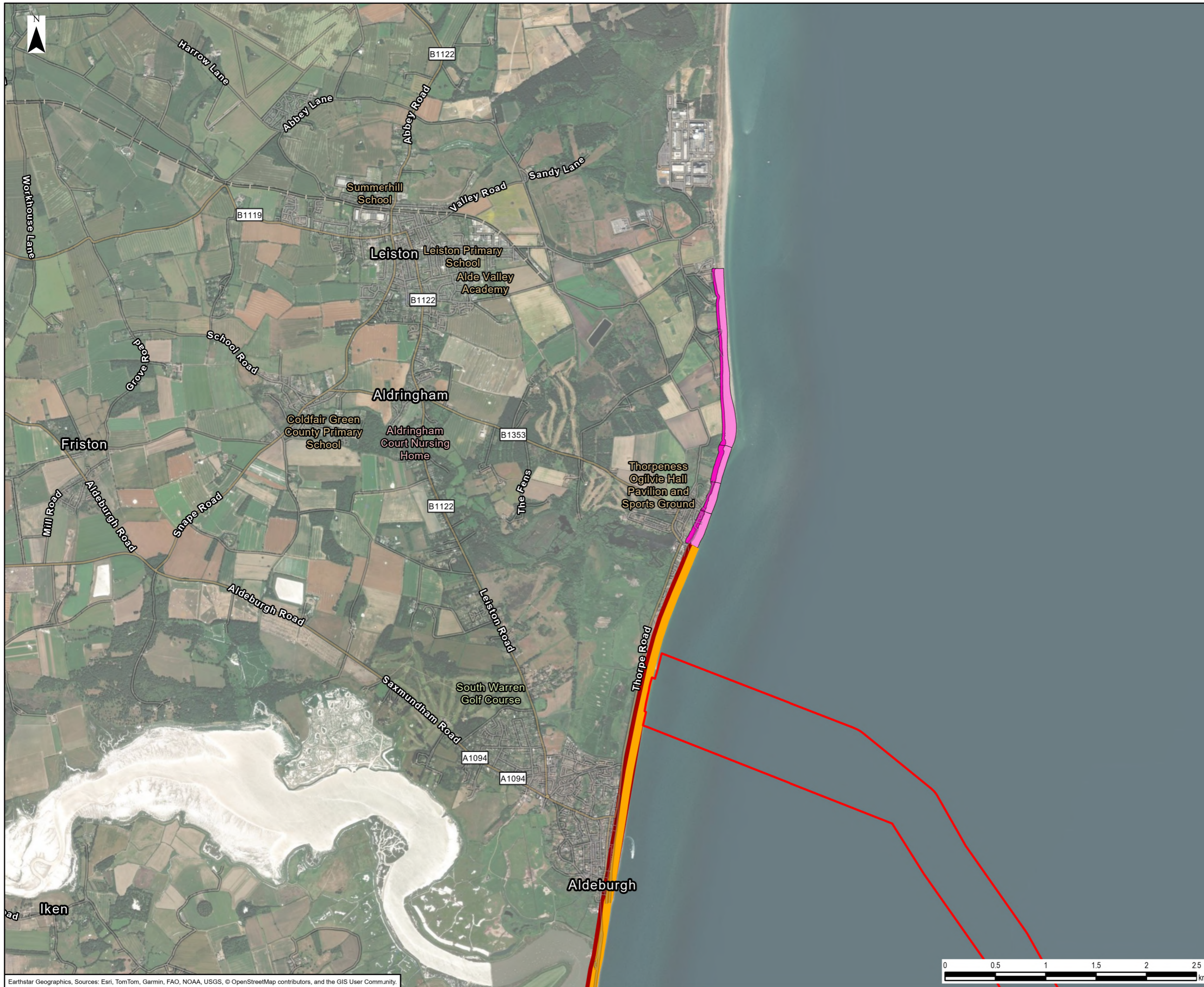
0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: SEA LINK

Document Title: MARINE DESIGNATED SITES SHEET 2 OF 2

Creator: EB	Date: 24/09/2024	Checker: DF	Date: 24/09/2024	Approver: IDC	Date: 24/09/2024
Document Ref: FIGURE 6.4.4.1.12	Scale: 1:100,000	Format: A3	Sheets: 1	Rev: 0	



- Legend
- Offshore Scheme Boundary
  - NCERM Data - 2105
  - NCERM Data - 2055
  - Estimated Average Erosion - 2105
  - Estimated Average Erosion - 2055

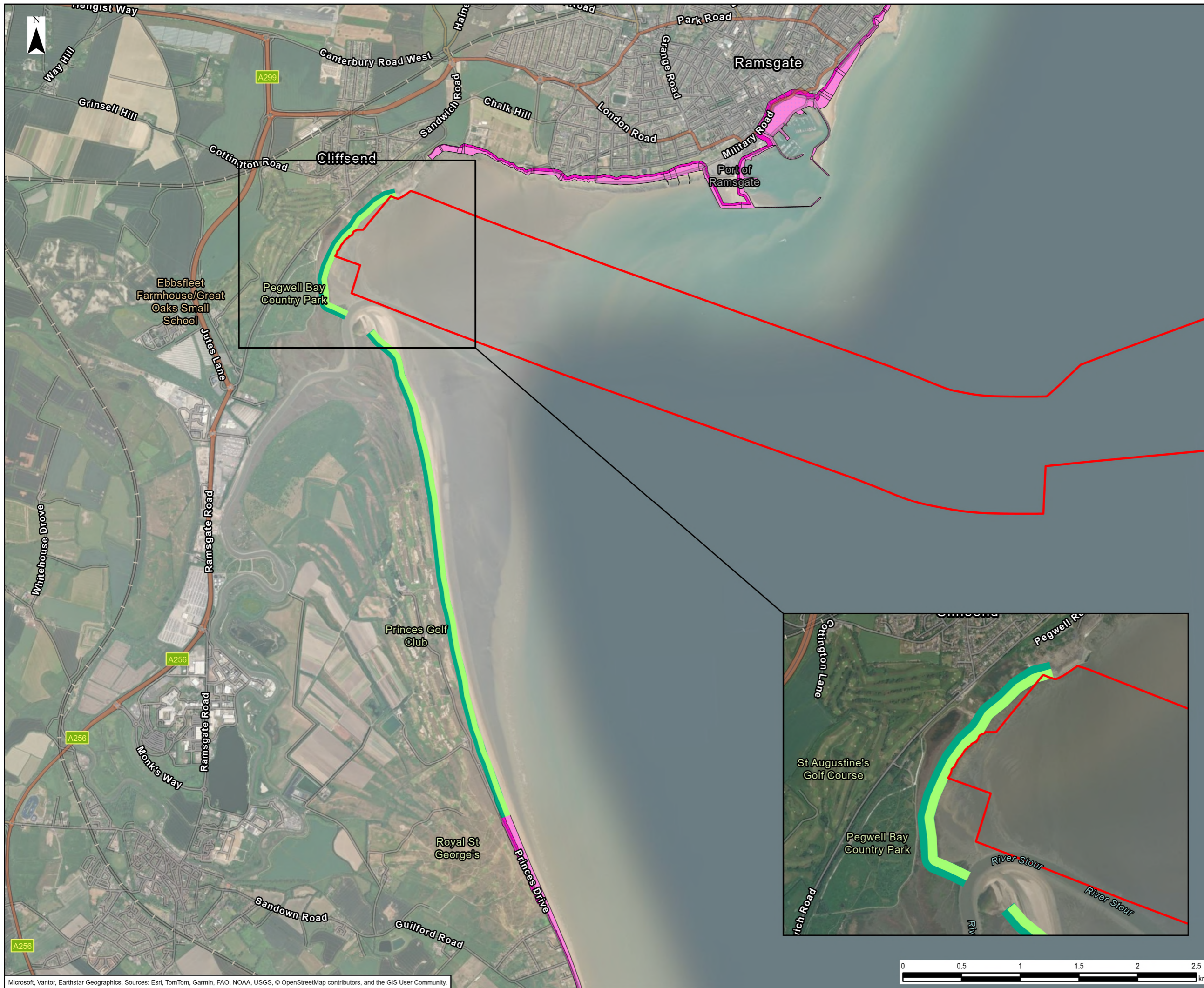
1	07/11/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: SEA LINK

Document Title: SUFFOLK ESTIMATED FUTURE EROSION

Creator: EB	Date: 07/11/2025	Checker: DF	Date: 07/11/2025	Approver: IDC	Date: 07/11/2025
Document Ref: FIGURE 6.4.4.1.13	Scale: 1:35,000	Format: A3	Sheets: 1	Rev: 1	



- Legend
- Offshore Scheme Boundary
  - NCERM Data - 2105
  - NCERM Data - 2055
  - Kent Estimated Average Erosion - 2105
  - Kent Estimated Average Erosion - 2055

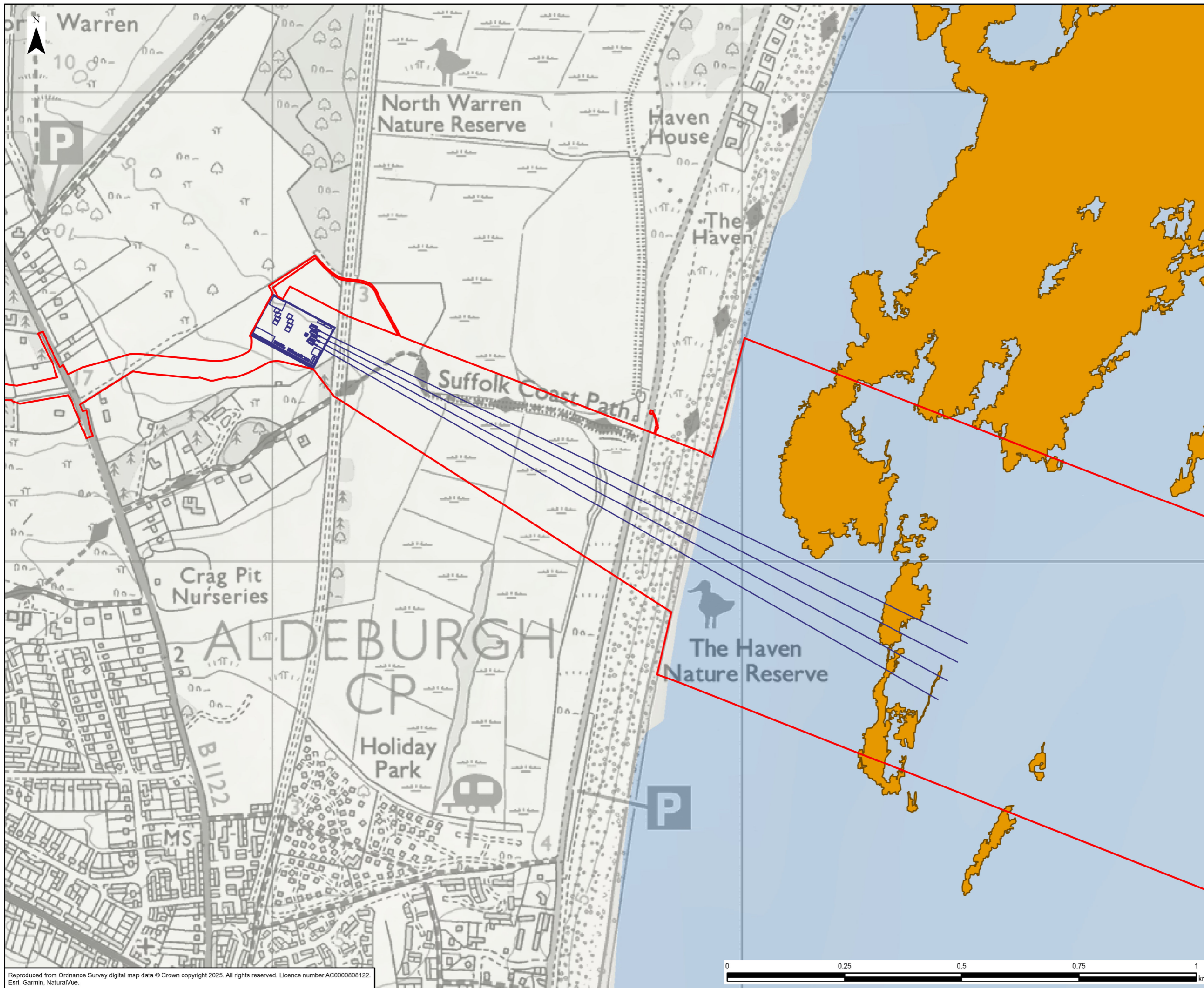
1	05/02/2026	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

**nationalgrid**

Scheme: SEA LINK

Document Title: KENT ESTIMATED FUTURE EROSION

Creator: EB	Date: 05/02/2026	Checker: DF	Date: 05/02/2026	Approver: IDC	Date: 05/02/2026
Document Ref: FIGURE 6.4.4.1.14	Scale: 1:30,000	Format: A3	Sheets: 1	Rev: 1	

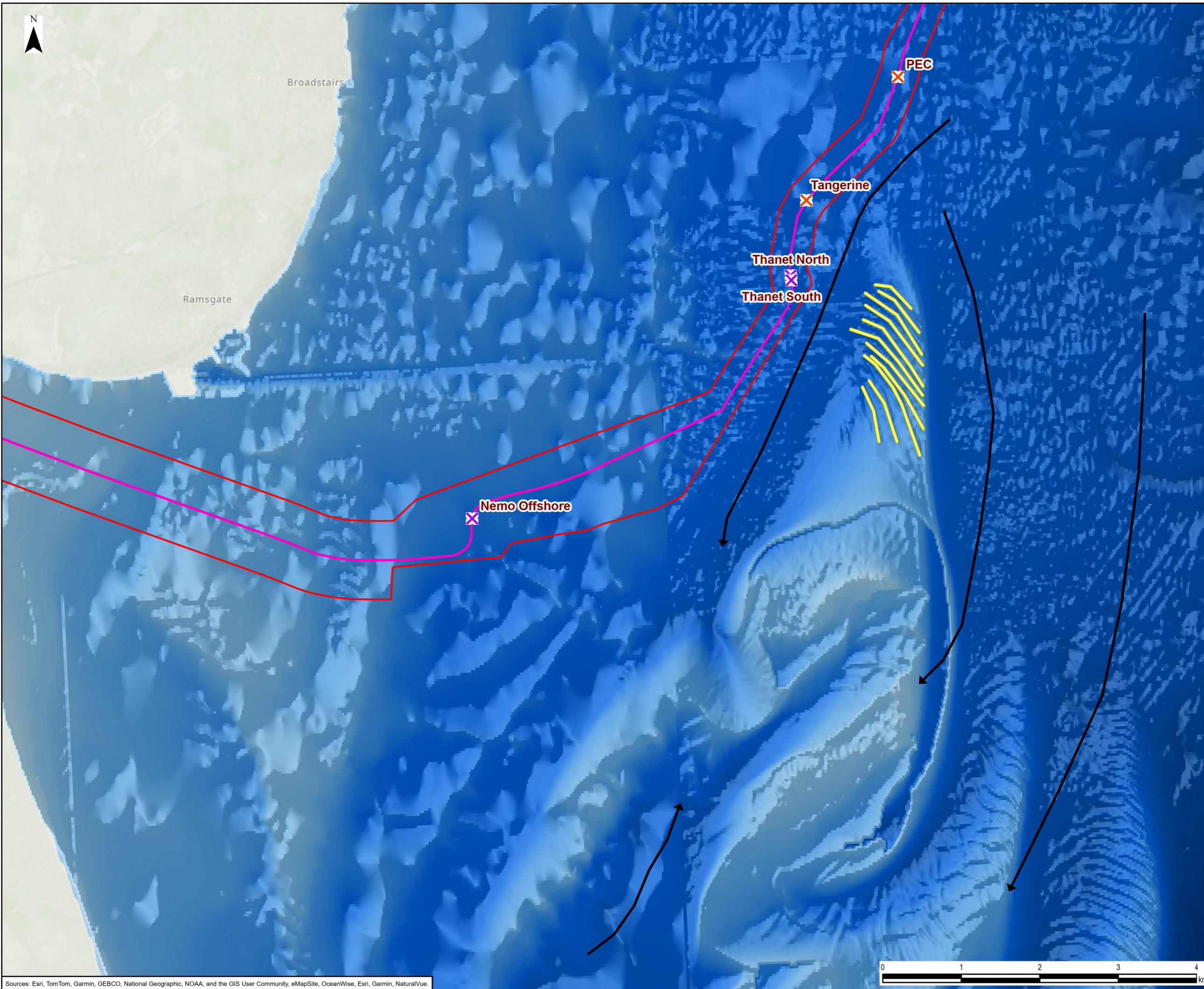


- Legend
- Order Limits
  - Coralline Crag
  - HDD alignment and exit locations

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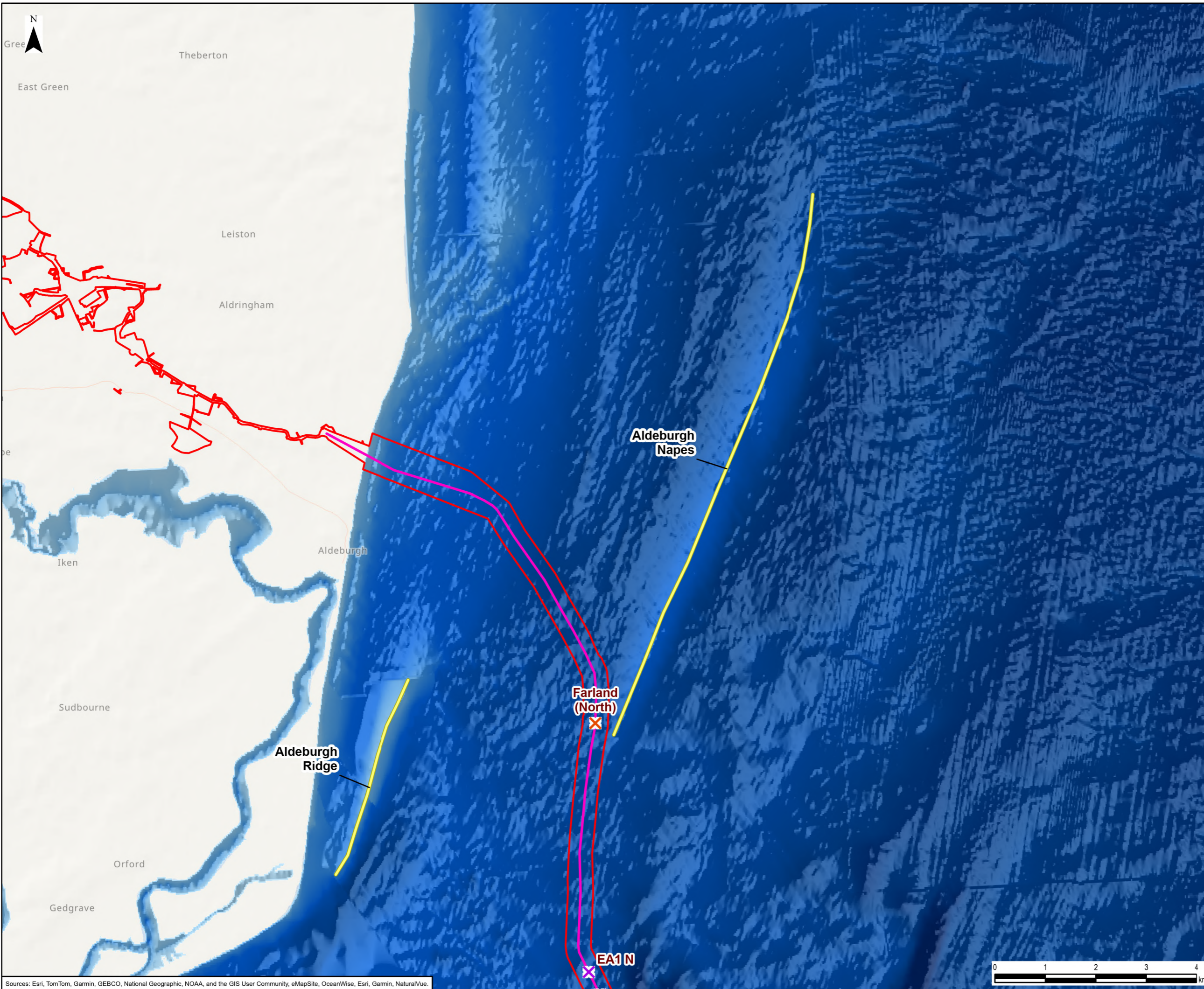


0	02/01/2026	ENVIRONMENTAL STATEMENT	DF	EB	IDC
Rev	Date	Description	GIS	Chk	App
<b>nationalgrid</b>					
Scheme: SEA LINK					
Document Title: PROXIMITY OF THE CORALLINE CRAG OUTCROPS TO THE PROPOSED DEVELOPMENT					
Creator: DF	Date: 02/01/2026	Checker: EB	Date: 02/01/2026	Approver: IDC	Date: 02/01/2026
Document Ref: FIGURE 6.4.4.1.15	Scale: 1:7,500	Format: A3	Sheets: 1	Rev: 0	



- Legend**
- Order Limits
  - Proposed Marine HVDC Cable Alignment
  - Sandwave Crest
  - Bedload Transport Direction (Based on Kenyon & Cooper (2005))
- Cable Crossings Requiring Concrete Mattress Protection**
- ✕ FO Cable
  - ✕ Power

0	09/04/2026	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
<b>nationalgrid</b>					
Scheme: SEA LINK					
Document Title: BEDLOAD TRANSPORT AT THE GOODWIN SANDS MCZ					
Creator: EB	Date: 09/04/2026	Checker: DF	Date: 09/04/2026	Approver: IDC	Date: 09/04/2026
Document Ref: FIGURE 6.4.4.1.16	Scale: 1:45,000	Format: A3	Sheets: 1	Rev: 0	



- Legend**
- Order Limits
  - Proposed Marine HVDC Cable Alignment
  - Sandwave Crest
- Cable Crossings Requiring Concrete Mattress Protection**
- ✕ FO Cable
  - ✕ Power

Sources: Esri, TomTom, Garmin, GEBCO, National Geographic, NOAA, and the GIS User Community, eMapSite, OceanWise, Esri, Garmin, NaturalVue.

Document Path: L:\Legacy\UKMCR1FP002-V1IE\Proposal3512\SEAL GIS\02\_Maps\Environmental Statement\Marine Physical Environment\Sea\_Link\_EXQ1\_Fig6-4-4-1-17\_SuffolkOffshoreBedforms\_20260409\_EB.aprx



0	09/04/2026	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App



Scheme: SEA LINK

Document Title:  
SUFFOLK OFFSHORE BEDFORMS, INCLUDING THE ALDEBURGH NAPES AND ALDEBURGH RIDGE

Creator: EB	Date: 09/04/2026	Checker: DF	Date: 09/04/2026	Approver: IDC	Date: 09/04/2026
Document Ref: FIGURE 6.4.4.1.17	Scale: 1:70,000	Format: A3	Sheets: 1	Rev: 0	

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