

Sea Link

Volume 6: Environmental Statement

Document 6.4.4.4.1

Part 4 Marine

Chapter 4

Physical Environment - Figures

Planning Inspectorate Reference: EN020026

Version: **AB**

March-November 2025

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

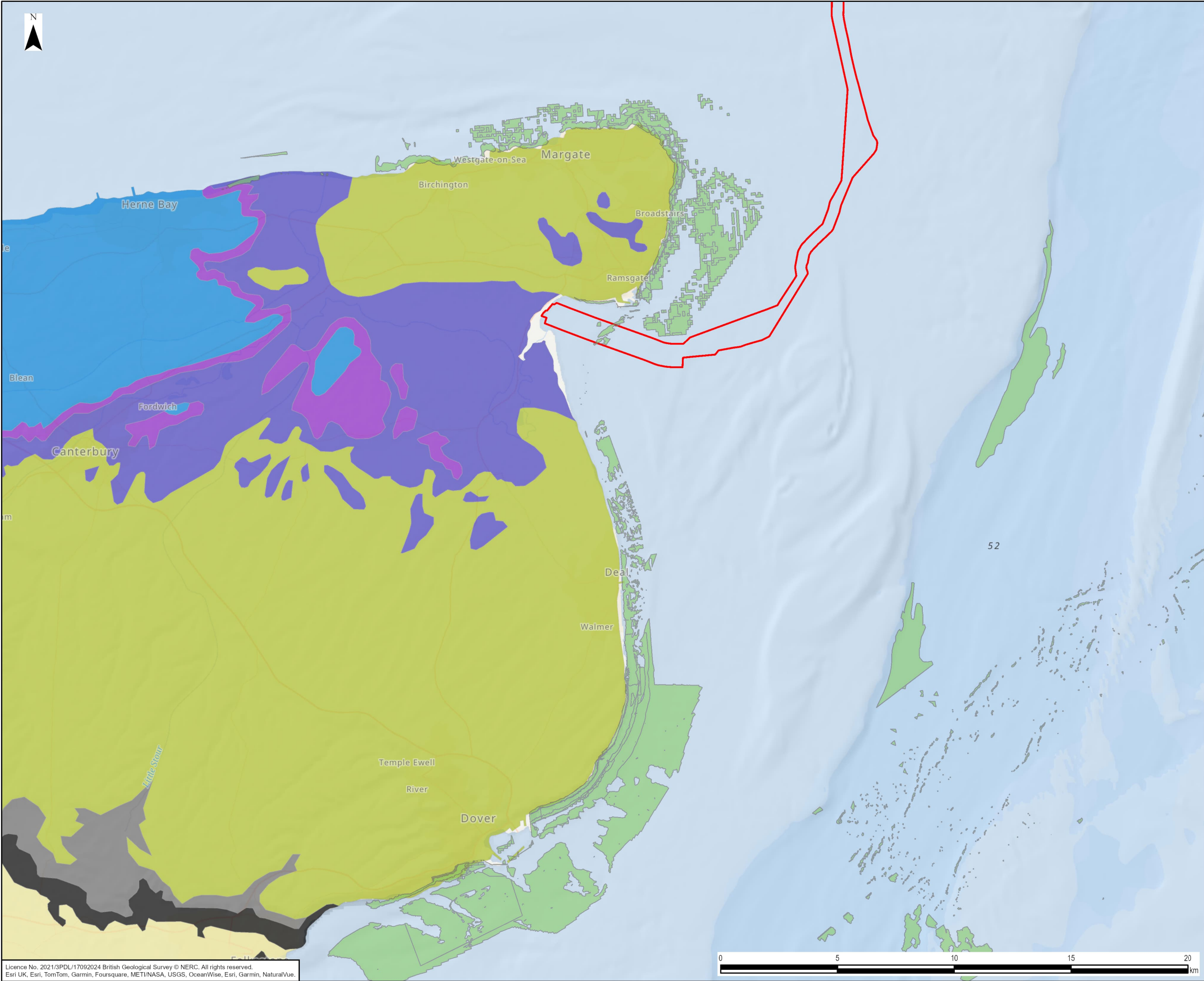
Contents

Application Document 6.4.4.4.1 Physical Environment - Figures

- Application Document 6.4.4.1.1 Kent Landfall Geology
- Application Document 6.4.4.1.2 Pegwell Bay Surficial Sediments
- Application Document 6.4.4.1.3 Intertidal Elevation Difference in Pegwell Bay, 2007-2022, Based on Bathymetric Survey Data (Channel Coastal Observatory)
- Application Document 6.4.4.1.4 Intertidal Elevation Difference in Sandwich Flats, 2007-2022, Based on Bathymetric Survey Data (Channel Coastal Observatory)
- Application Document 6.4.4.1.5 Intertidal Elevation Difference in Sandwich Bay, 2007-2022, Based on Bathymetric Survey Data (Channel Coastal Observatory)
- Application Document 6.4.4.1.6 Nearshore Sandbanks, Kent Landfall
- Application Document 6.4.4.1.7 Wind and Wave Climate, KP 10 - 60 (ABPMER, 2018)
- Application Document 6.4.4.1.8 Wind and Wave Climate, KP 70 - 110 (ABPMER, 2018)
- Application Document 6.4.4.1.9 Neap EBB Tide & Neap Flood Tide
- Application Document 6.4.4.1.10 Spring EBB Tide & Spring Flood Tide
- Application Document 6.4.4.1.11 Offshore Seabed Surficial Geology (MMT, 2022)
- Application Document 6.4.4.1.12 Marine Designated Sites
- [Application Document 6.4.4.1.13 Suffolk Estimated Future Erosion](#)
- [Application Document 6.4.4.1.14 Kent Estimated Future Erosion](#)

Version History

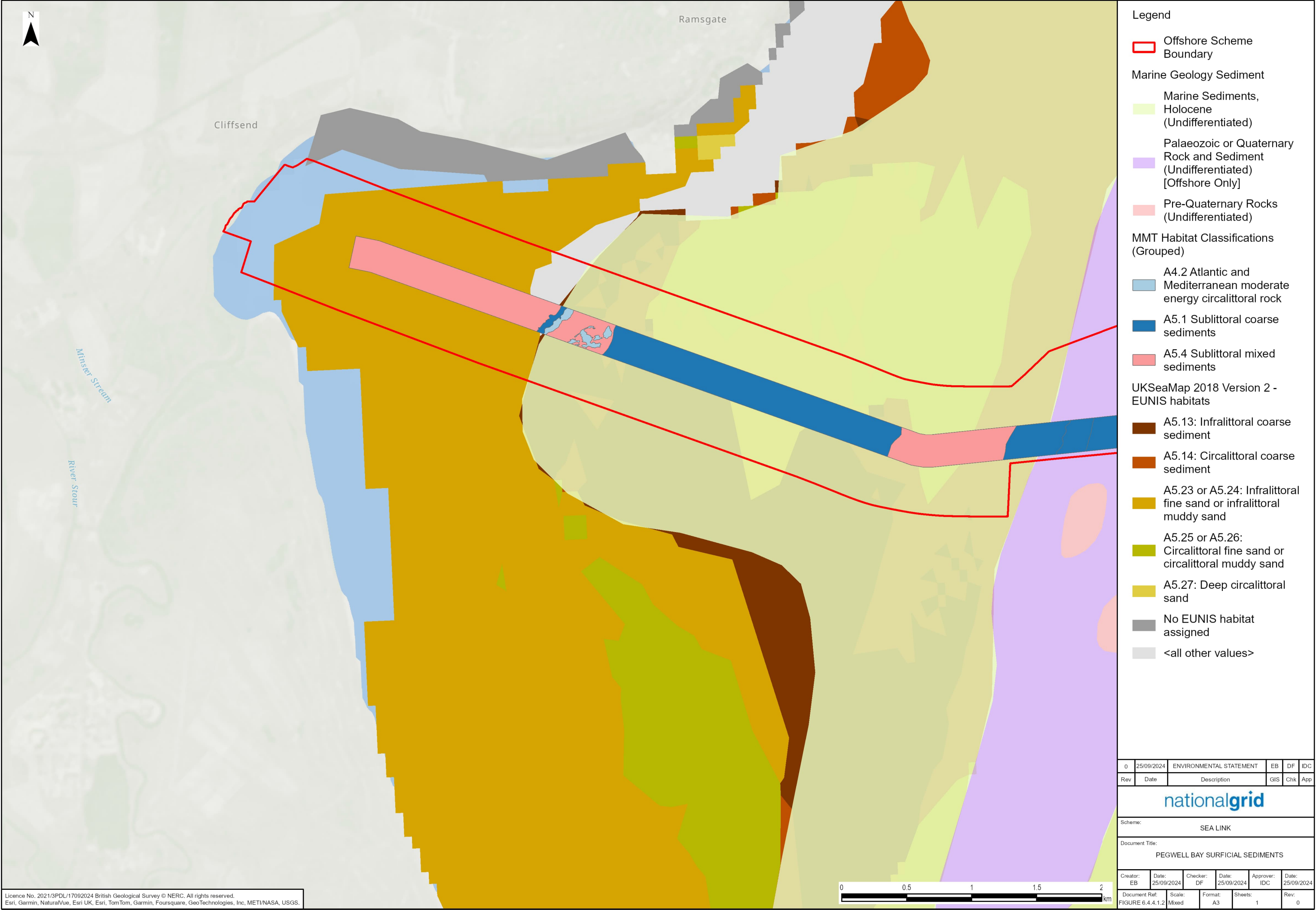
Date	Issue	Status	Description / Changes
March 2025	A	Final	For DCO submission
November 2025	B	Final	For Deadline 1



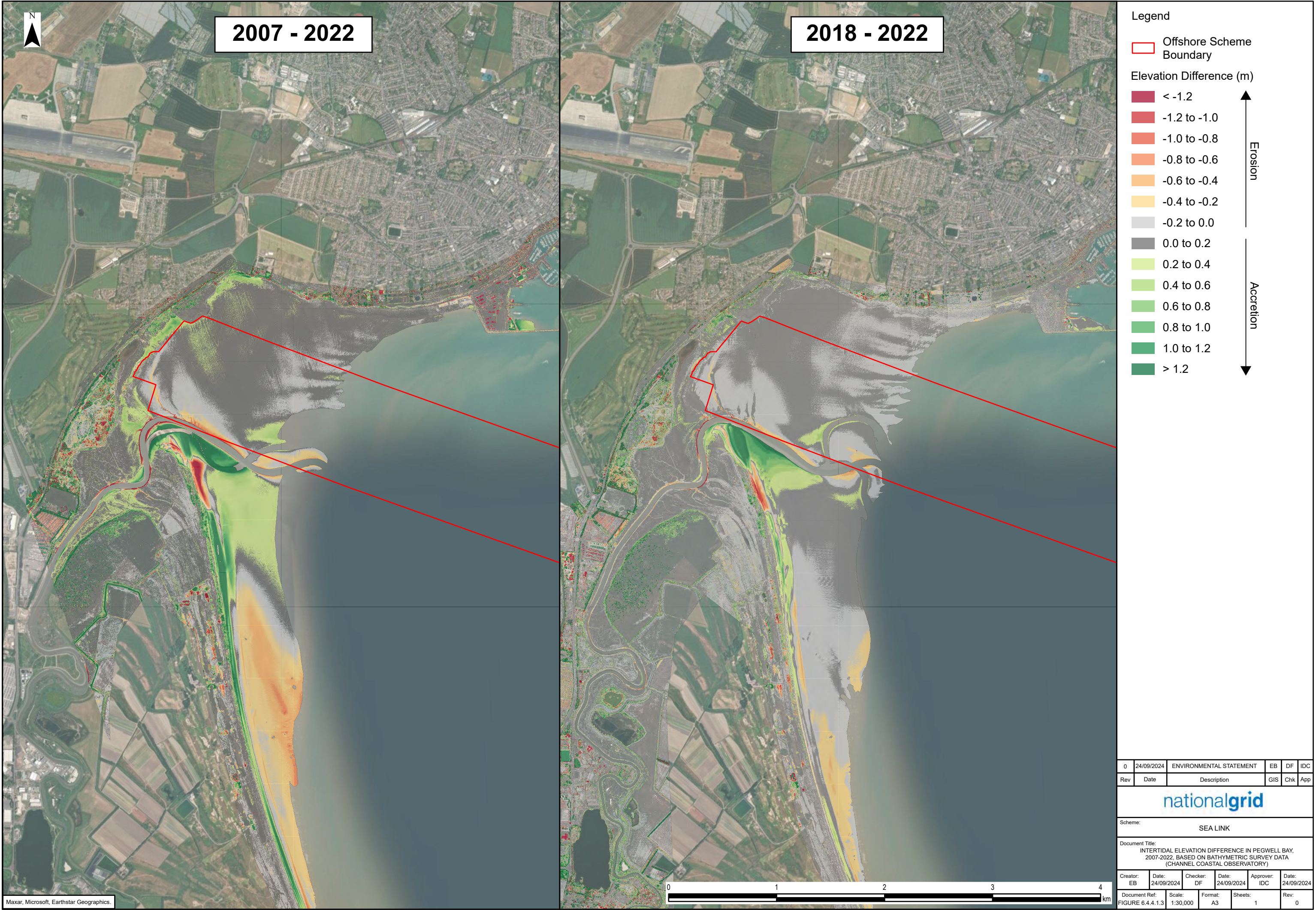
Legend

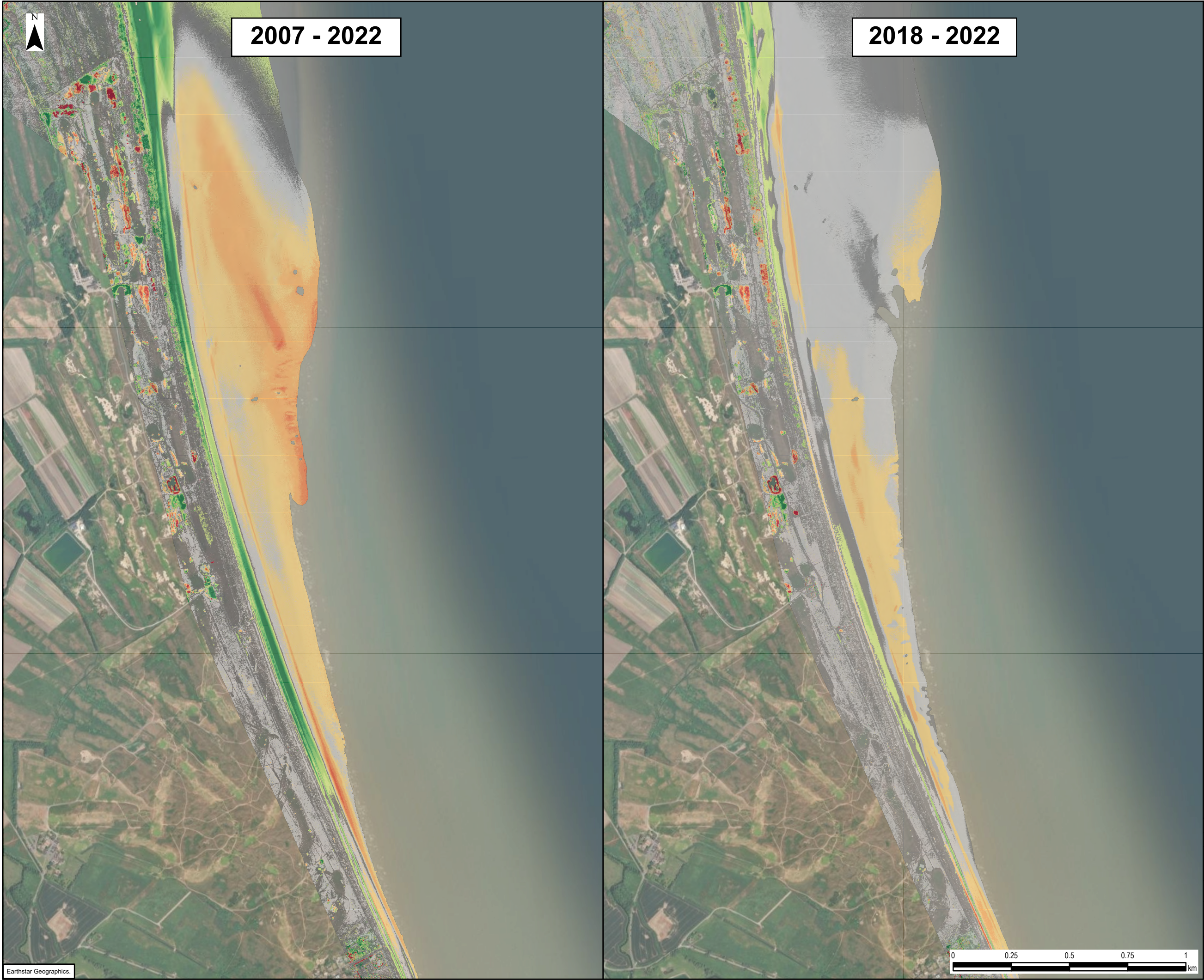
- Offshore Scheme Boundary
- JNCC Annex I Reefs
- Geology - Bedrock
 - Gault Formation and Upper Greensand Formation - Mudstone, Sandstone and Limestone
 - Grey Chalk Subgroup - Chalk
 - Lower Greensand Group - Sandstone and Mudstone
 - Lambeth Group - Clay, Silt, Sand and Gravel
 - Thanet Sand Formation - 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
nationalgrid					
Scheme: SEA LINK					
Document Title: KENT LANDFALL GEOLOGY					
Creator: EB	Date: 25/09/2024	Checker: DF	Date: 25/09/2024	Approver: IDC	Date: 25/09/2024
Document Ref: FIGURE 6.4.4.1.1	Scale: Mixed	Format: A3	Sheets: 1	Rev: 0	



0	25/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: PEGWELL BAY SURFICIAL SEDIMENTS					
Creator: EB	Date: 25/09/2024	Checker: DF	Date: 25/09/2024	Approver: IDC	Date: 25/09/2024
Document Ref: FIGURE 6.4.4.1.2	Scale: Mixed	Format: A3	Sheets: 1		Rev: 0





Legend

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
- 1.0 to 1.2
- > 1.2

Erosion

Accretion

Earthstar Geographics.

0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: INTERTIDAL ELEVATION DIFFERENCE IN SANDWICH FLATS, 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
Document Ref: FIGURE 6.4.4.1.4	Scale: 1:15,000	Format: A3	Sheets: 1	Rev: 0	



Legend

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

1.0 to 1.2

> 1.2

Erosion

↑

↓

Accretion

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

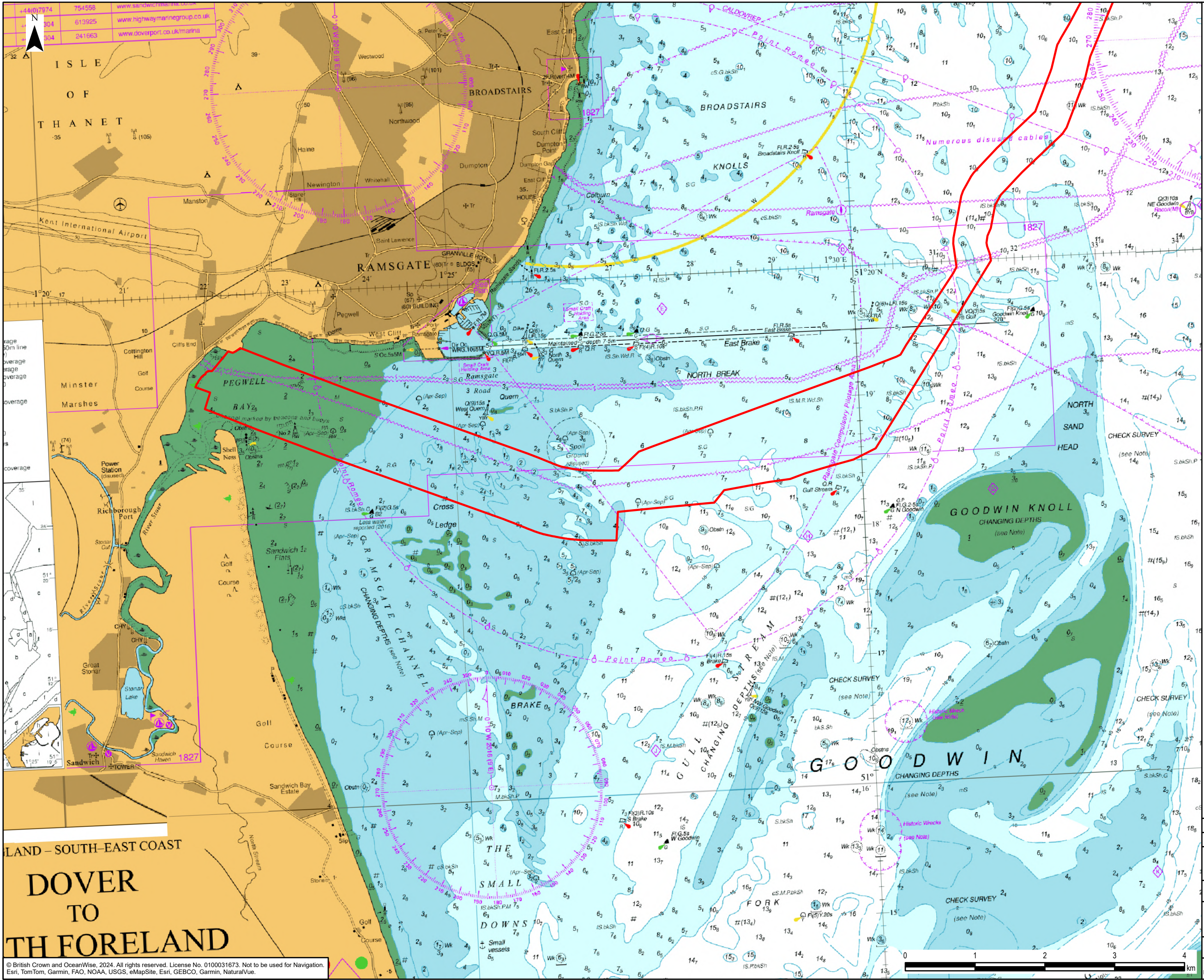
nationalgrid

Scheme: SEA LINK

Document Title: INTERTIDAL ELEVATION DIFFERENCE IN SANDWICH BAY, 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
-------------	------------------	-------------	------------------	---------------	------------------

Document Ref: FIGURE 6.4.4.1.5	Scale: 1:17,500	Format: A3	Sheets: 1	Rev: 0
--------------------------------	-----------------	------------	-----------	--------



Legend

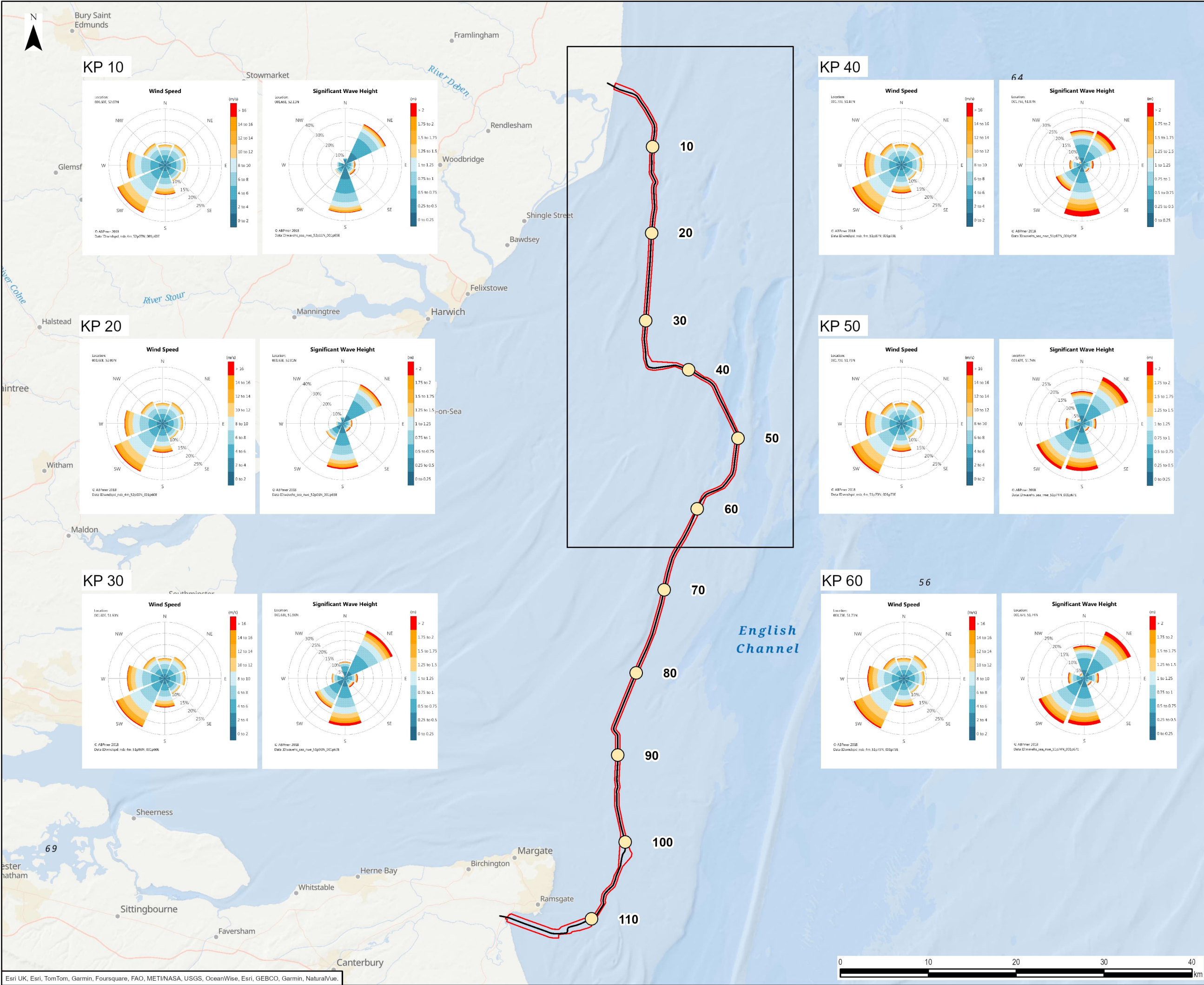
Offshore Scheme Boundary

LAND – SOUTH-EAST COAST
DOVER
TO
THE FORELAND

© British Crown and OceanWise, 2024. All rights reserved. License No. 0100031673. Not to be used for Navigation. Esri, TomTom, Garmin, FAO, NOAA, USGS, eMapSite, Esri, GEBCO, Garmin, NaturalVue.

Document Path: L:\Legacy\UKMCR1FP002-V11E\Proposal\3512\SEAL GIS\02_Maps\Environmental Statement\Marine Physical Environment\Sea_Link_ES_Fig6-4-4-1-6_NearshoreSandbanksKentLandfall_20240925_EB.aprx

0	25/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme:		SEA LINK			
Document Title:					
NEARSHORE SANDBANKS, KENT LANDFALL					
Creator: EB	Date: 25/09/2024	Checker: DF	Date: 25/09/2024	Approver: IDC	Date: 25/09/2024
Document Ref: FIGURE 6.4.4.1.6	Scale: 1:50,000	Format: A3	Sheets: 1	Rev: 0	



- Legend
- Offshore Scheme Boundary
 - Proposed Marine HVDC Cable Alignment
 - Marine Kilometre Point (KP)

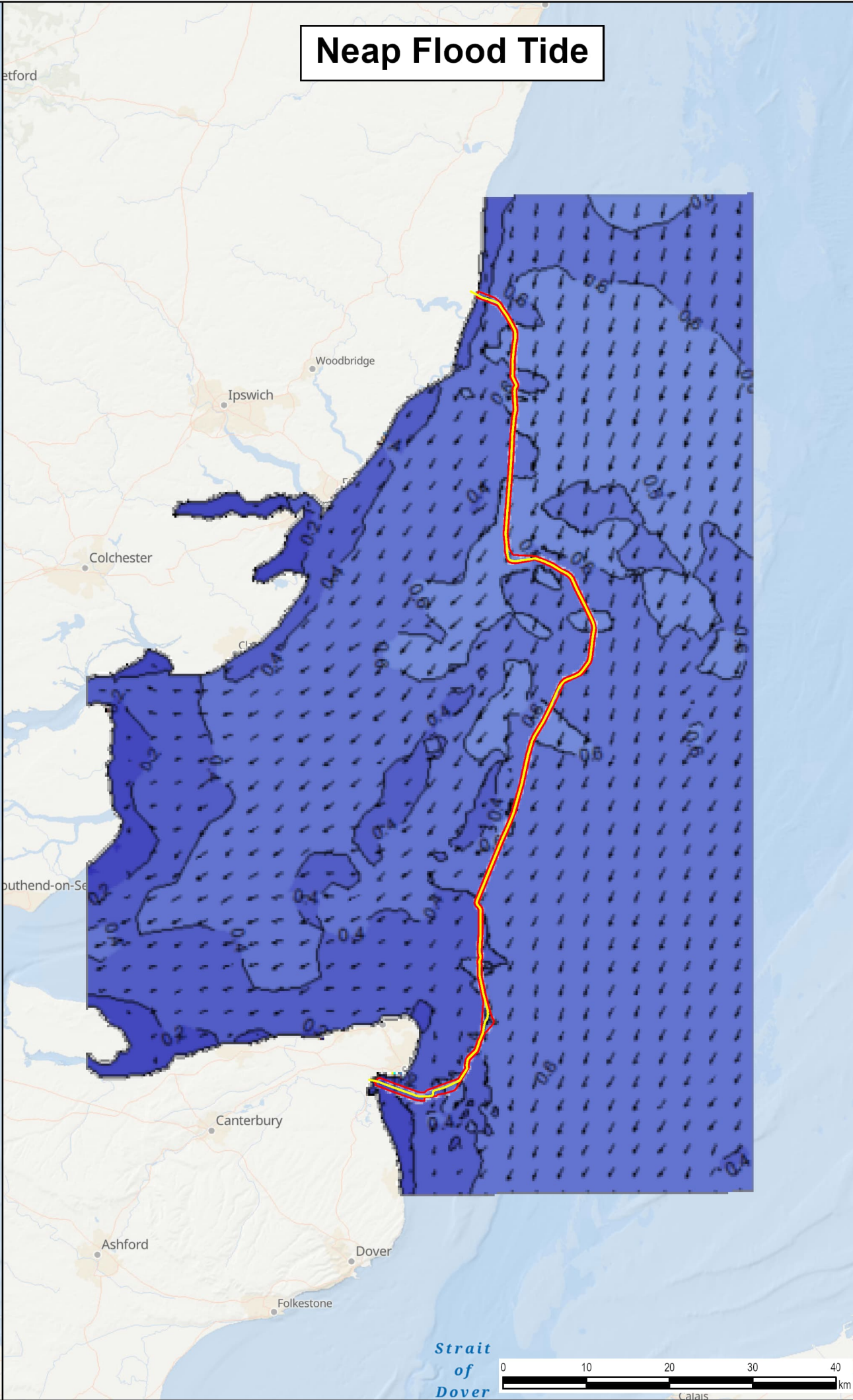
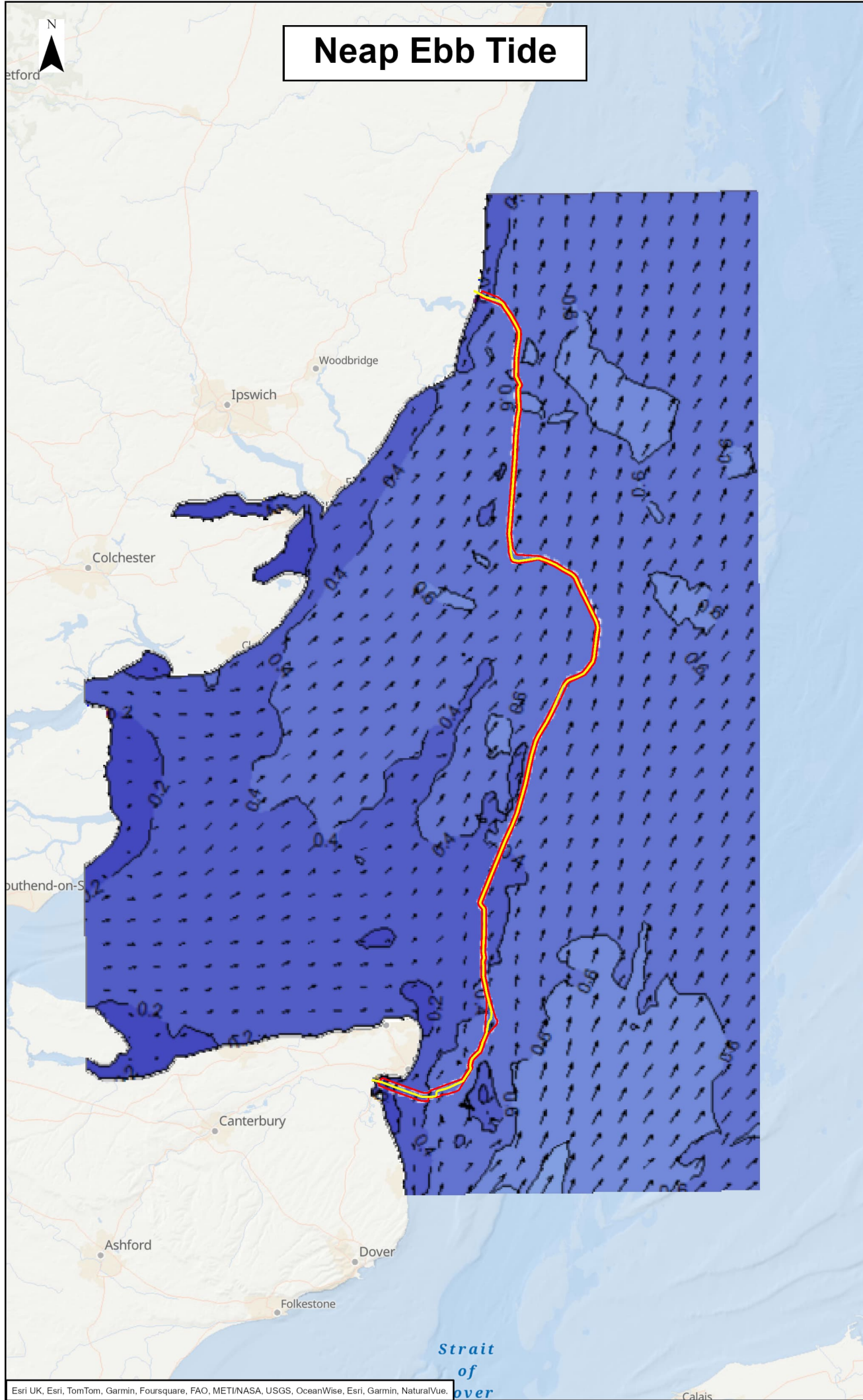
0	24/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: WIND AND WAVE CLIMATE, KP 10 - 60 (ABPMER, 2018)					
Creator: EB	Date: 24/09/2024	Checker: DF	Date: 24/09/2024	Approver: IDC	Date: 24/09/2024
Document Ref: FIGURE 6.4.4.1.7	Scale: 1:400,000	Format: A3	Sheets: 1	Rev: 0	



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
nationalgrid					
Scheme: SEA LINK					
Document Title: WIND AND WAVE CLIMATE, KP 70 - 110 (ABPMER, 2018)					
Creator: EB	Date: 24/09/2024	Checker: DF	Date: 24/09/2024	Approver: IDC	Date: 24/09/2024
Document Ref: FIGURE 6.4.4.1.8	Scale: 1:400,000	Format: A3	Sheets: 1	Rev: 0	



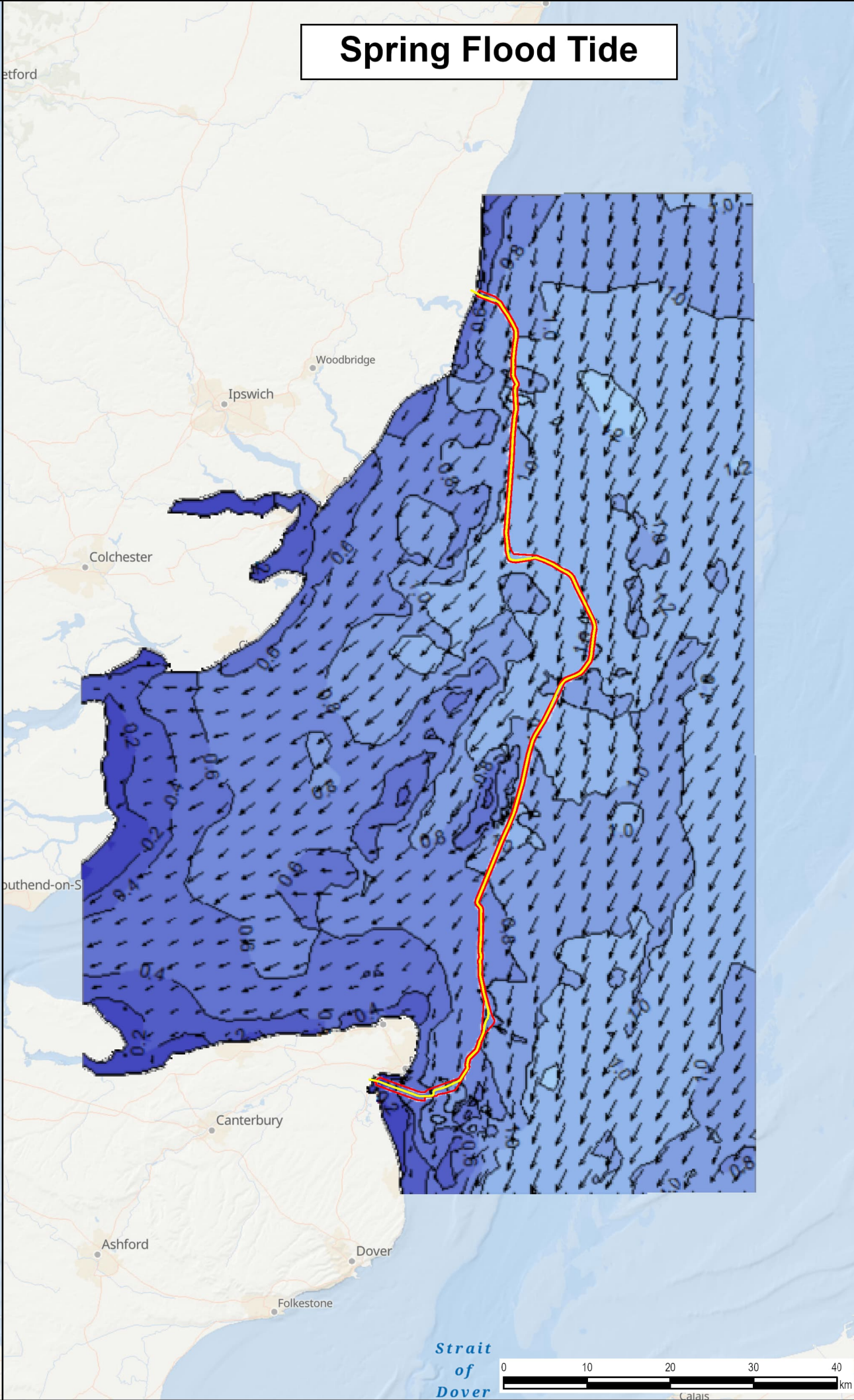
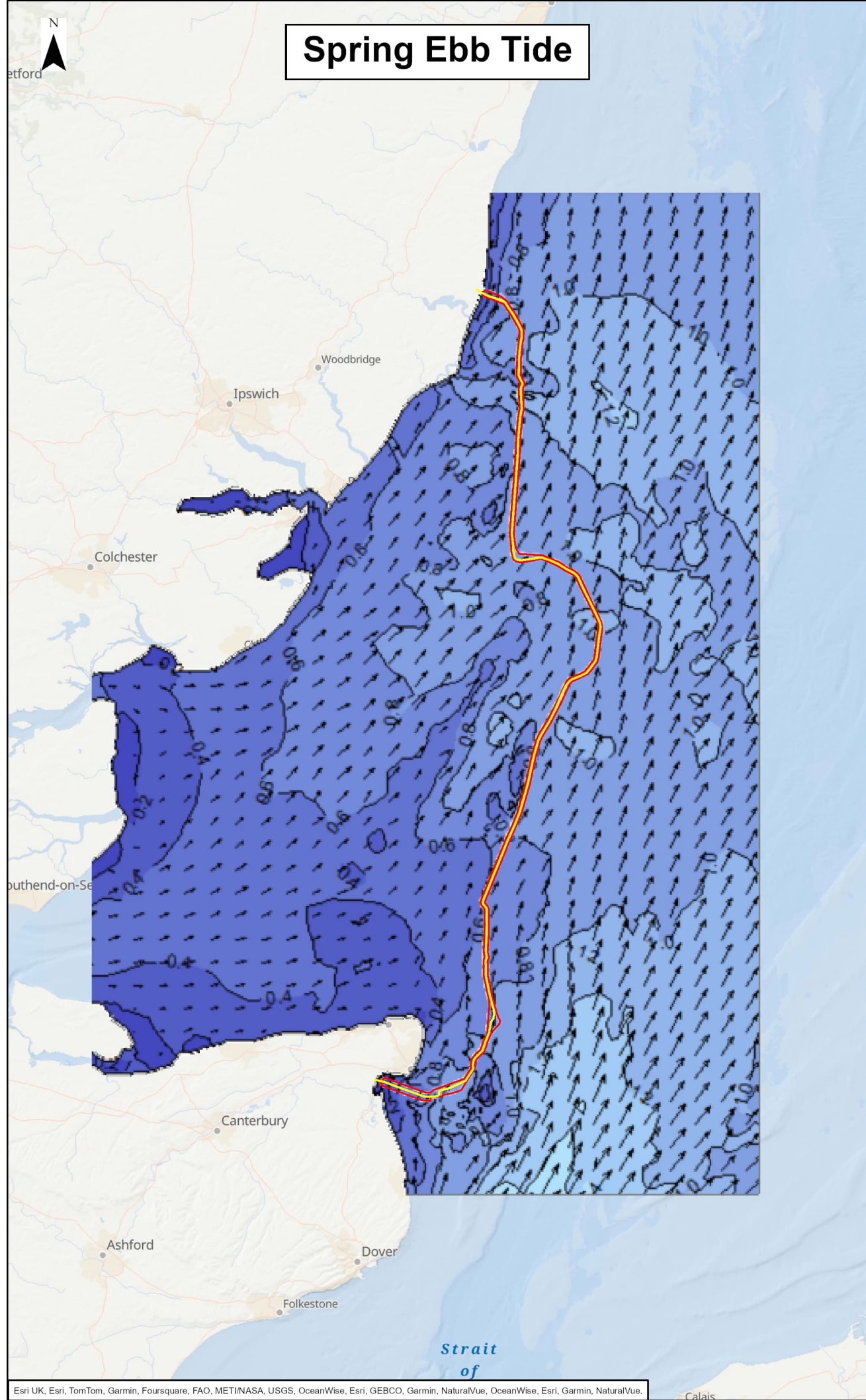
Legend

- 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

0	23/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: NEAP EBB TIDE & NEAP FLOOD TIDE					
Creator: EB	Date: 23/09/2024	Checker: DF	Date: 23/09/2024	Approver: IDC	Date: 23/09/2024
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

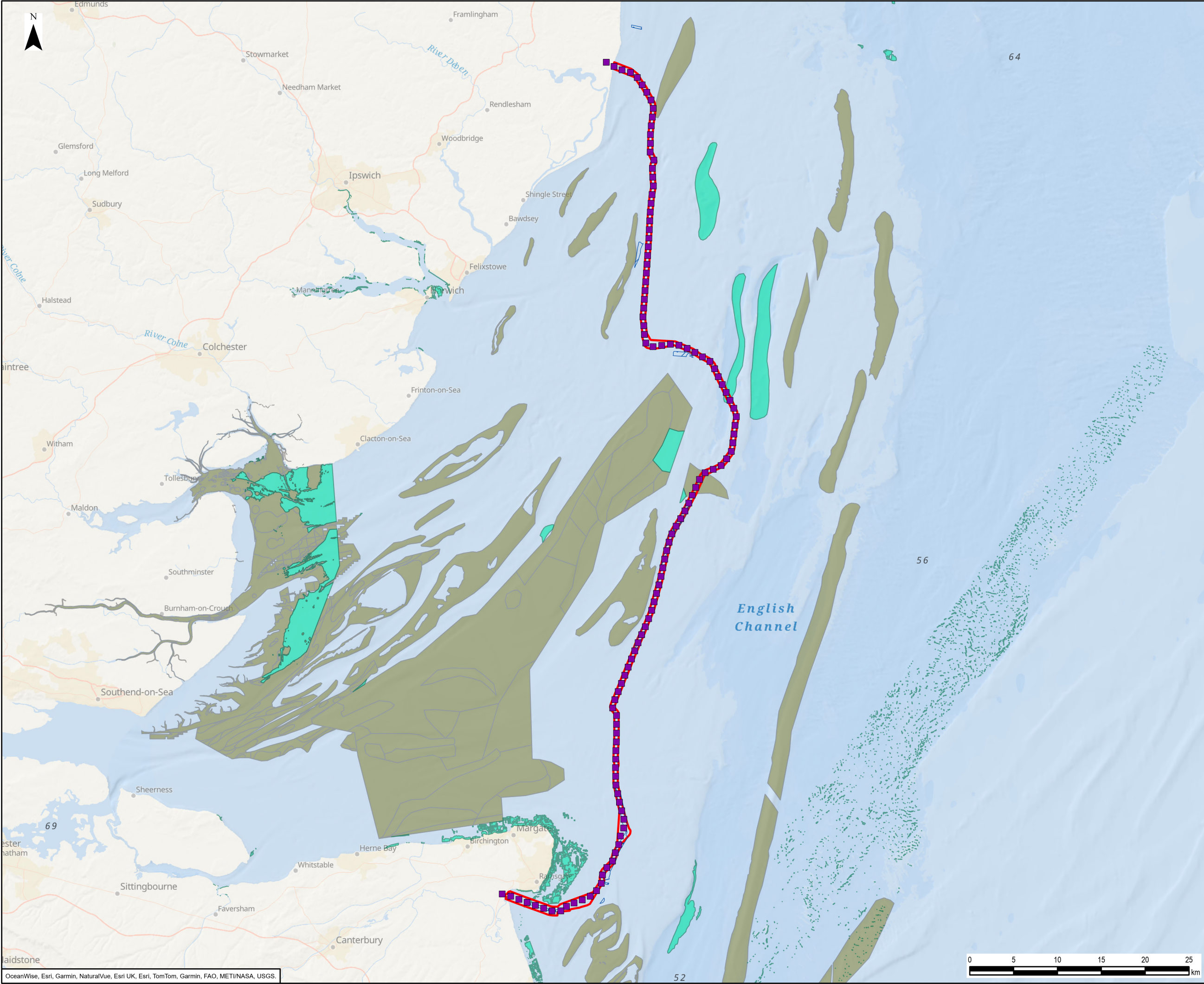
0	23/09/2024	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

nationalgrid

Scheme: SEA LINK

Document Title: SPRING EBB TIDE & SPRING FLOOD TIDE

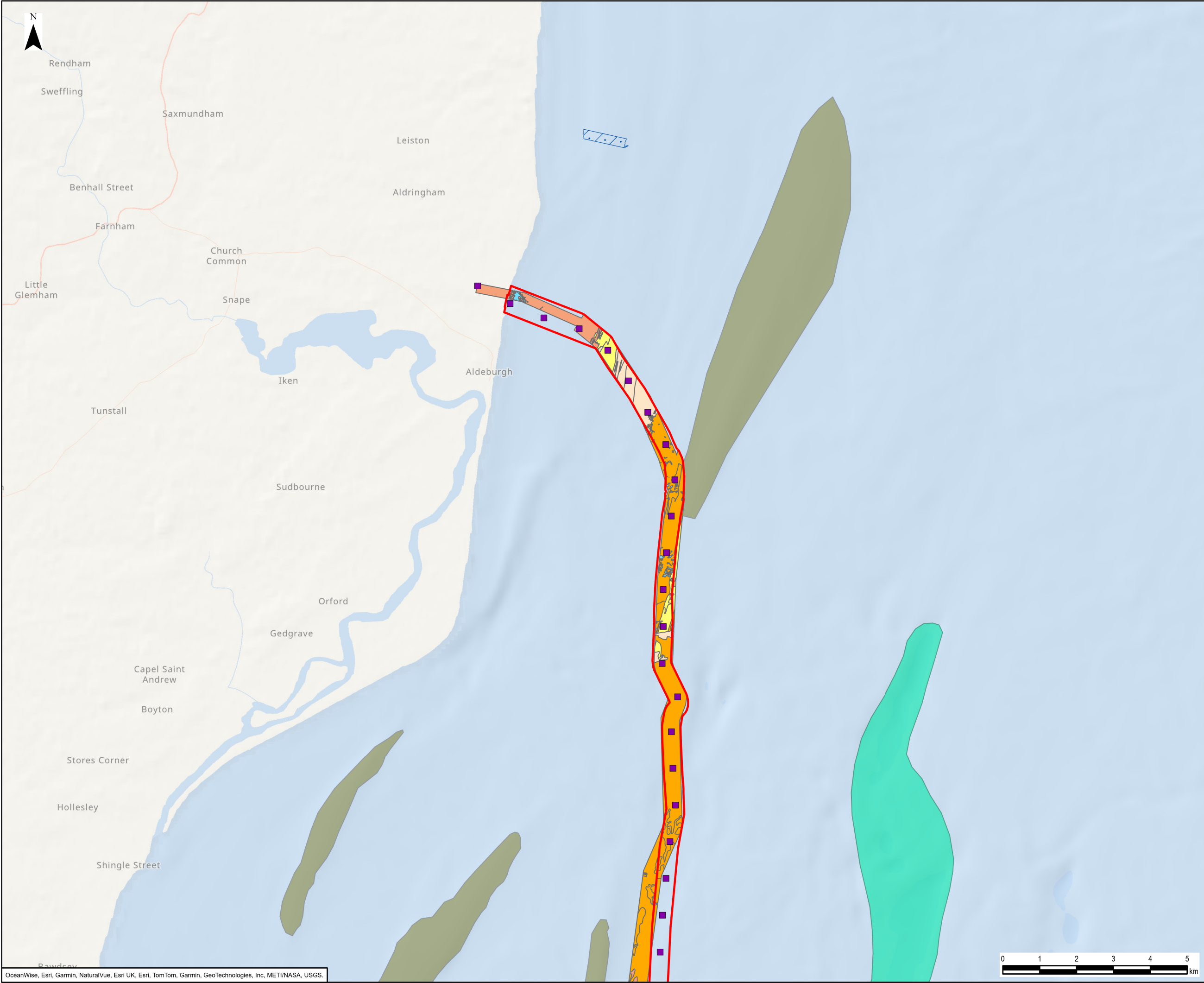
Creator: EB	Date: 23/09/2024	Checker: DF	Date: 23/09/2024	Approver: IDC	Date: 23/09/2024
Document Ref: FIGURE 6.4.4.1.10	Scale: 1:600,000	Format: A3	Sheets: 1	Rev: 0	



Legend

- Offshore Scheme Boundary
- Kilometre Point
- 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	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022) OVERVIEW SHEET					
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:400,000	Format: A3	Sheets: 1	Rev: 0	



Legend

- Offshore Scheme Boundary
- Kilometre Point
- 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
- Stiff Clay

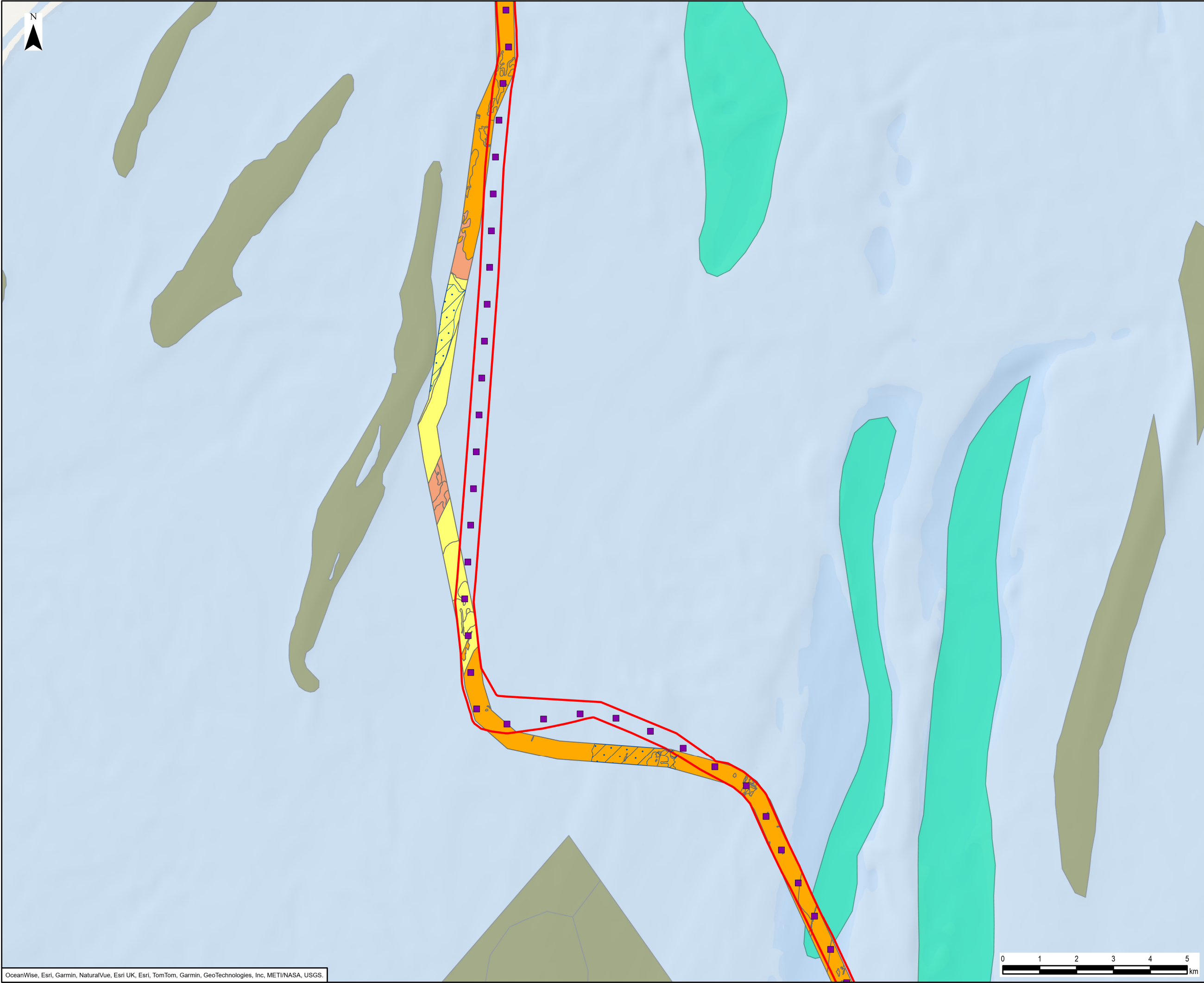
0	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

nationalgrid

Scheme: SEA LINK

Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022)
SHEET 1 OF 5

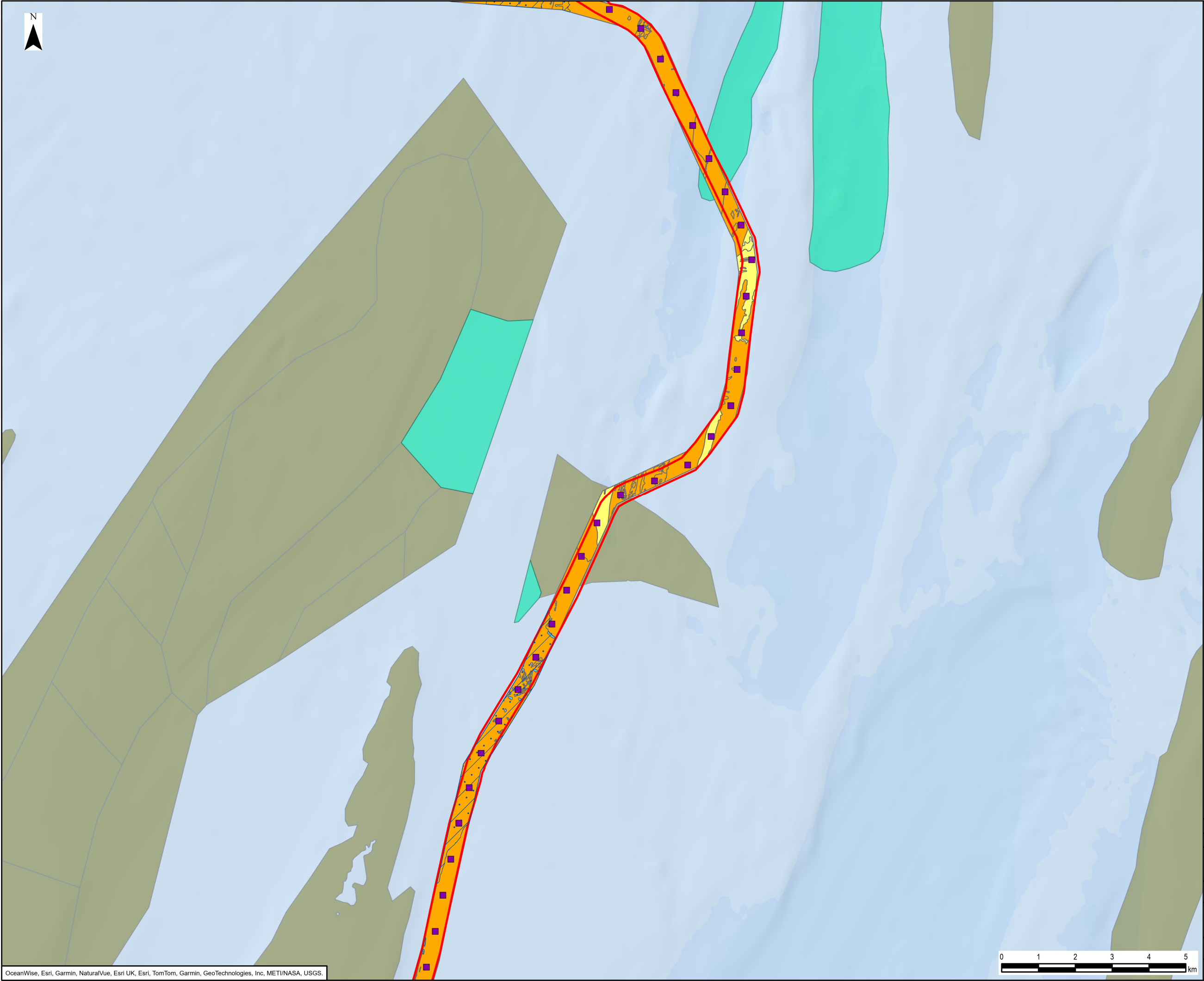
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:95,000	Format: A3	Sheets: 1	Rev: 0	



Legend

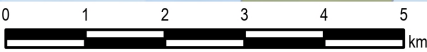
- Offshore Scheme Boundary
- Kilometre Point
- JNCC Annex I - Reefs
- JNCC Annex I - Sandbanks
- MMT
 - Annex I - Sandbanks which are slightly covered by sea water all the time
- MMT Sediment - Primary
 - Clay
 - Gravelly Sand to Sandy Gravel
 - Sand
 - Silt
 - Stiff Clay

0	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022) SHEET 2 OF 5					
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:95,000	Format: A3	Sheets: 1	Rev: 0	



Legend

- Offshore Scheme Boundary
- Kilometre Point
- 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
 - Stiff Clay



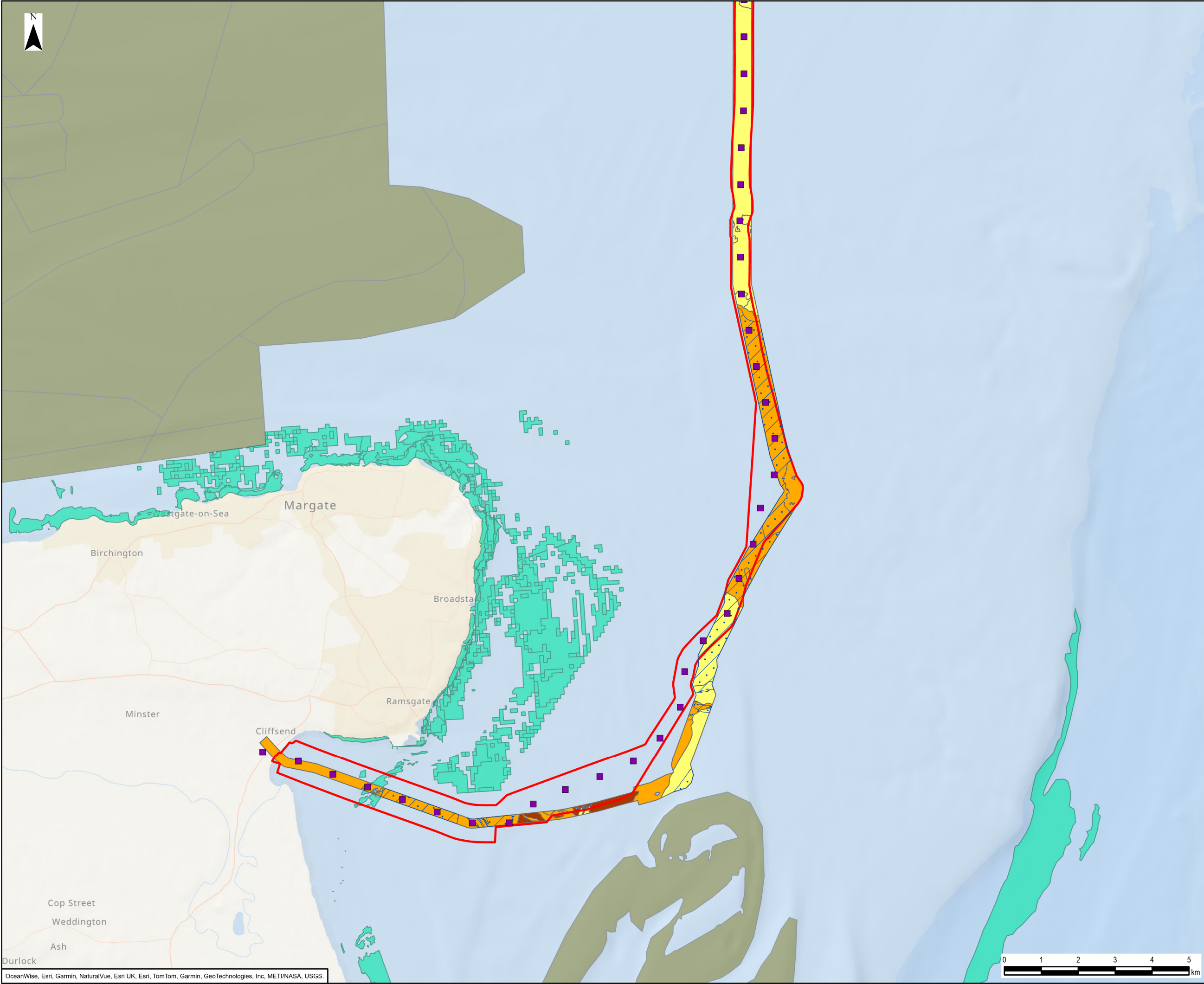
0	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022) SHEET 3 OF 5					
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:95,000	Format: A3	Sheets: 1	Rev: 0	



Legend

- Offshore Scheme Boundary
- Kilometre Point
- 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
 - Gravelly Sand to Sandy Gravel
 - Sand
 - Silt

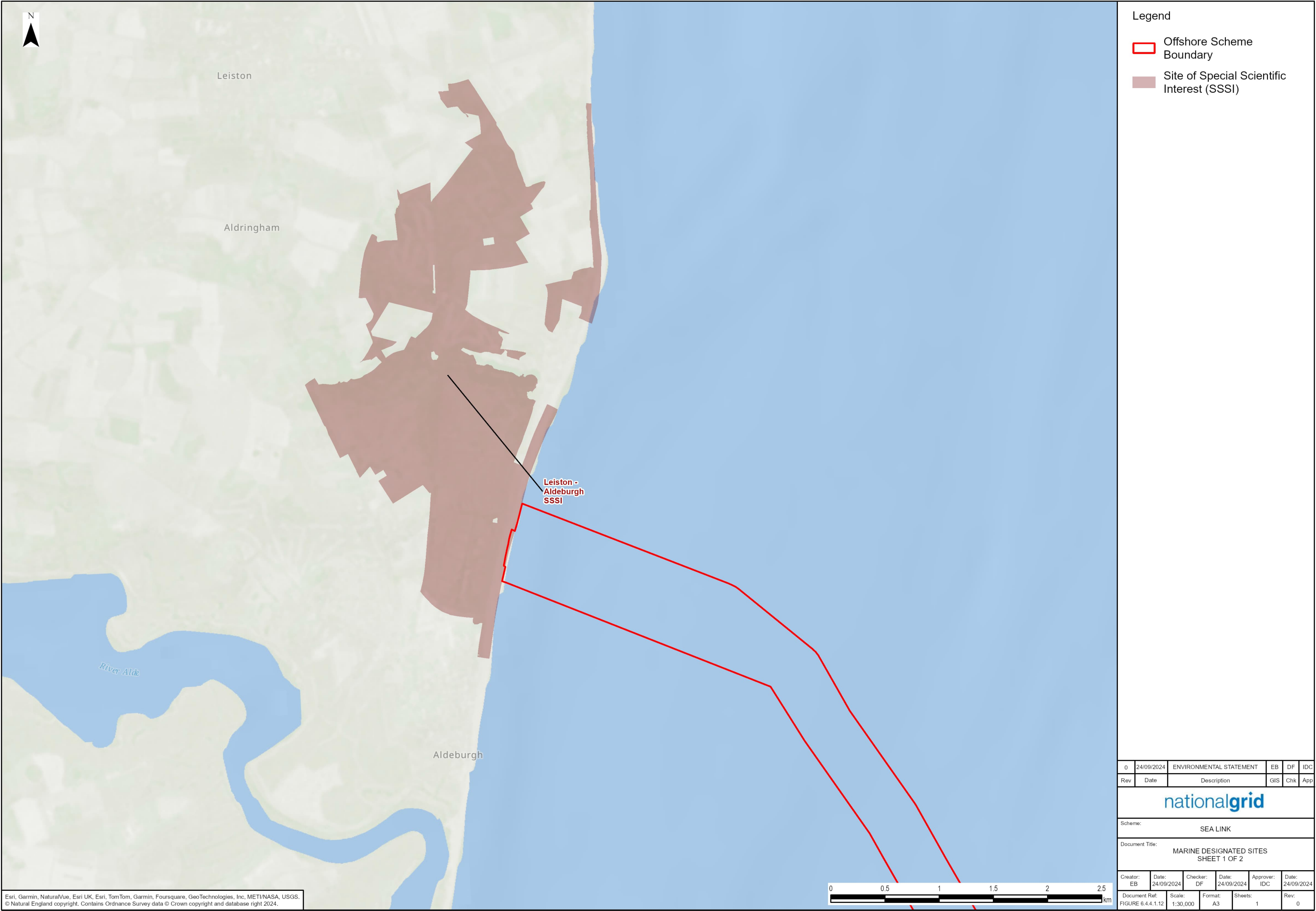
0	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022) SHEET 4 OF 5					
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:95,000	Format: A3	Sheets: 1	Rev: 0	



Legend

- Offshore Scheme Boundary
- Kilometre Point
- 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
 - Gravel
 - Gravelly Sand to Sandy Gravel
 - Sand
 - Stiff Clay
 - Very Coarse Sediment

0	05/09/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App
nationalgrid					
Scheme: SEA LINK					
Document Title: OFFSHORE SEABED SURFICIAL GEOLOGY (MMT, 2022) SHEET 5 OF 5					
Creator: EB	Date: 05/09/2025	Checker: DF	Date: 05/09/2025	Approver: IDC	Date: 05/09/2025
Document Ref: FIGURE 6.4.4.1.11	Scale: 1:95,000	Format: A3	Sheets: 1	Rev: 0	

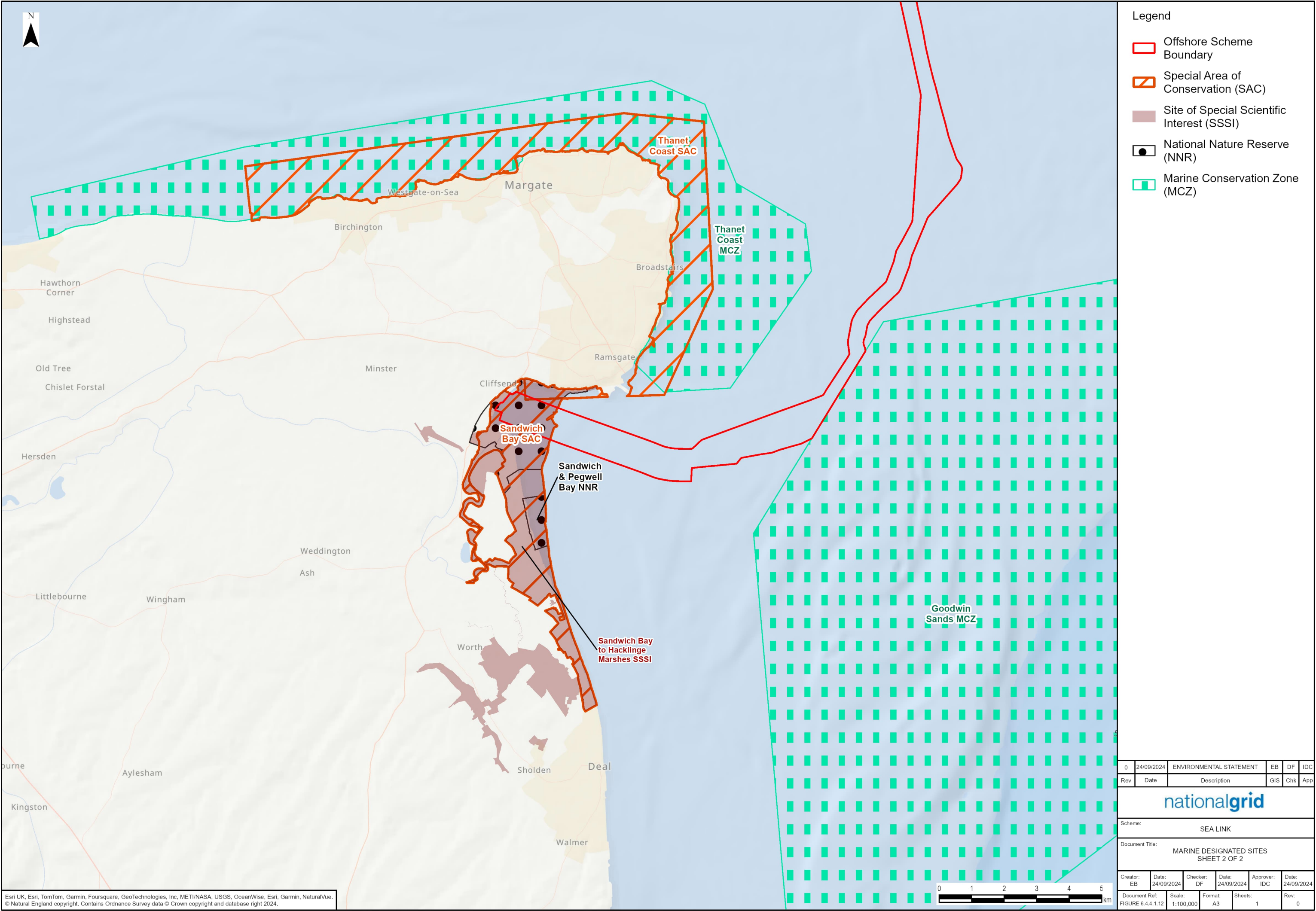


Esri, Garmin, NaturalVue, Esri UK, Esri, TomTom, Garmin, Foursquare, GeoTechnologies, Inc, METI/NASA, USGS, © Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2024.

Document Path: L:\Legacy\UKMCR1FP002-V11E\Proposal3512\SEAL GIS\02_Maps\Environmental Statement\Marine Physical Environment\Sea_Link_ES_Fig6-4-4-1-12_MarineDesignatedSites_20240924_EB.aprx

- 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					
Scheme: SEA LINK					
Document Title: MARINE DESIGNATED SITES SHEET 1 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: 1:30,000	Format: A3	Sheets: 1	Rev: 0	





Legend

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

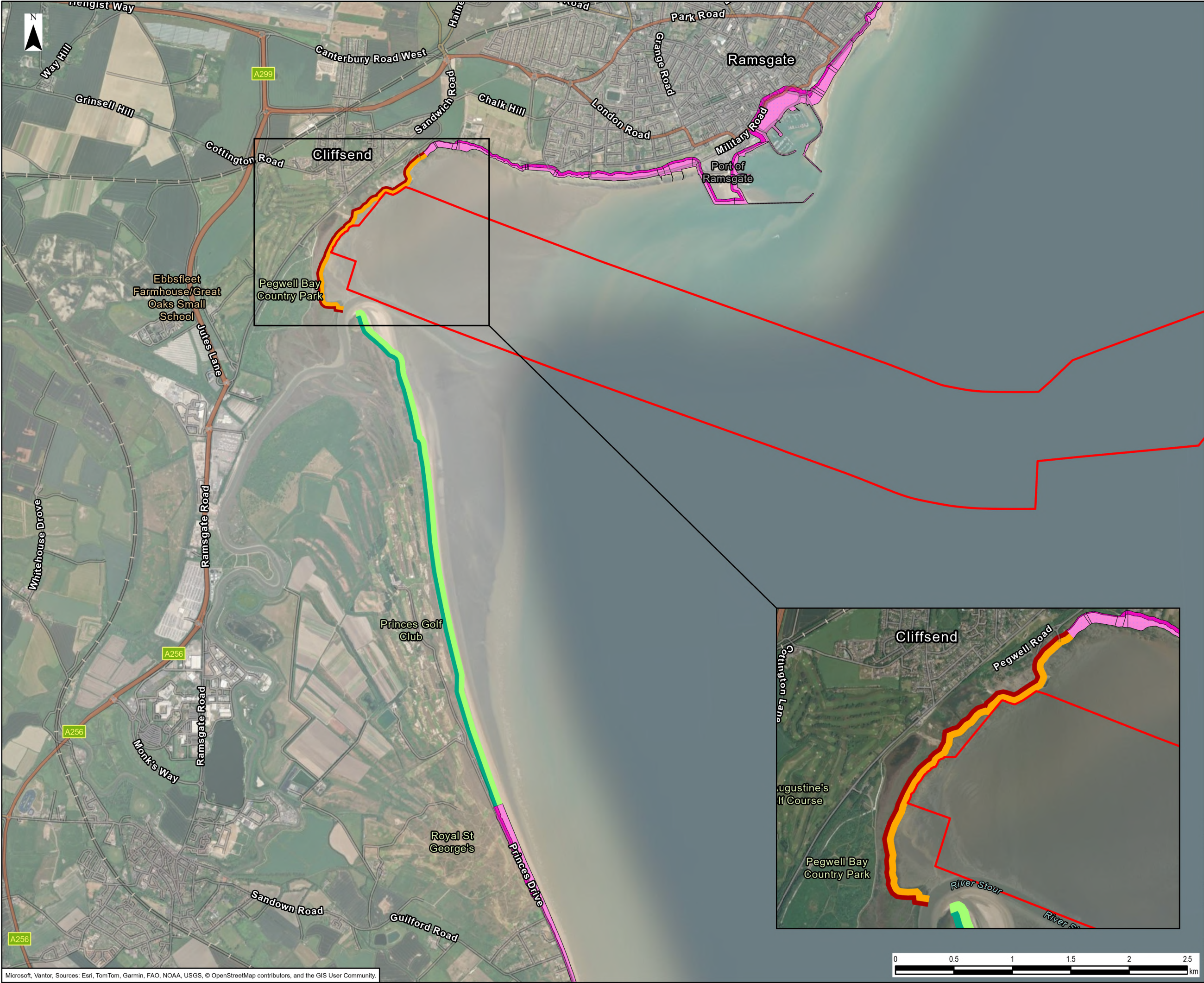
1	07/11/2025	ENVIRONMENTAL STATEMENT	EB	DF	IDC
Rev	Date	Description	GIS	Chk	App

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 A Estimated Average Erosion - 2105
 - Kent A Estimated Average Erosion - 2055
 - Kent B Estimated Average Erosion - 2105
 - Kent B 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: KENT ESTIMATED FUTURE EROSION

Creator: EB	Date: 07/11/2025	Checker: DF	Date: 07/11/2025	Approver: IDC	Date: 07/11/2025
Document Ref: FIGURE 6.4.4.1.14	Scale: 1:30,000	Format: A3	Sheets: 1	Rev: 1	

National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

Registered in England and Wales
No. 4031152
nationalgrid.com