



## Environmental Impact Assessment Scoping Report

### Volume 2 Figures Offshore and Project Wide

March 2024

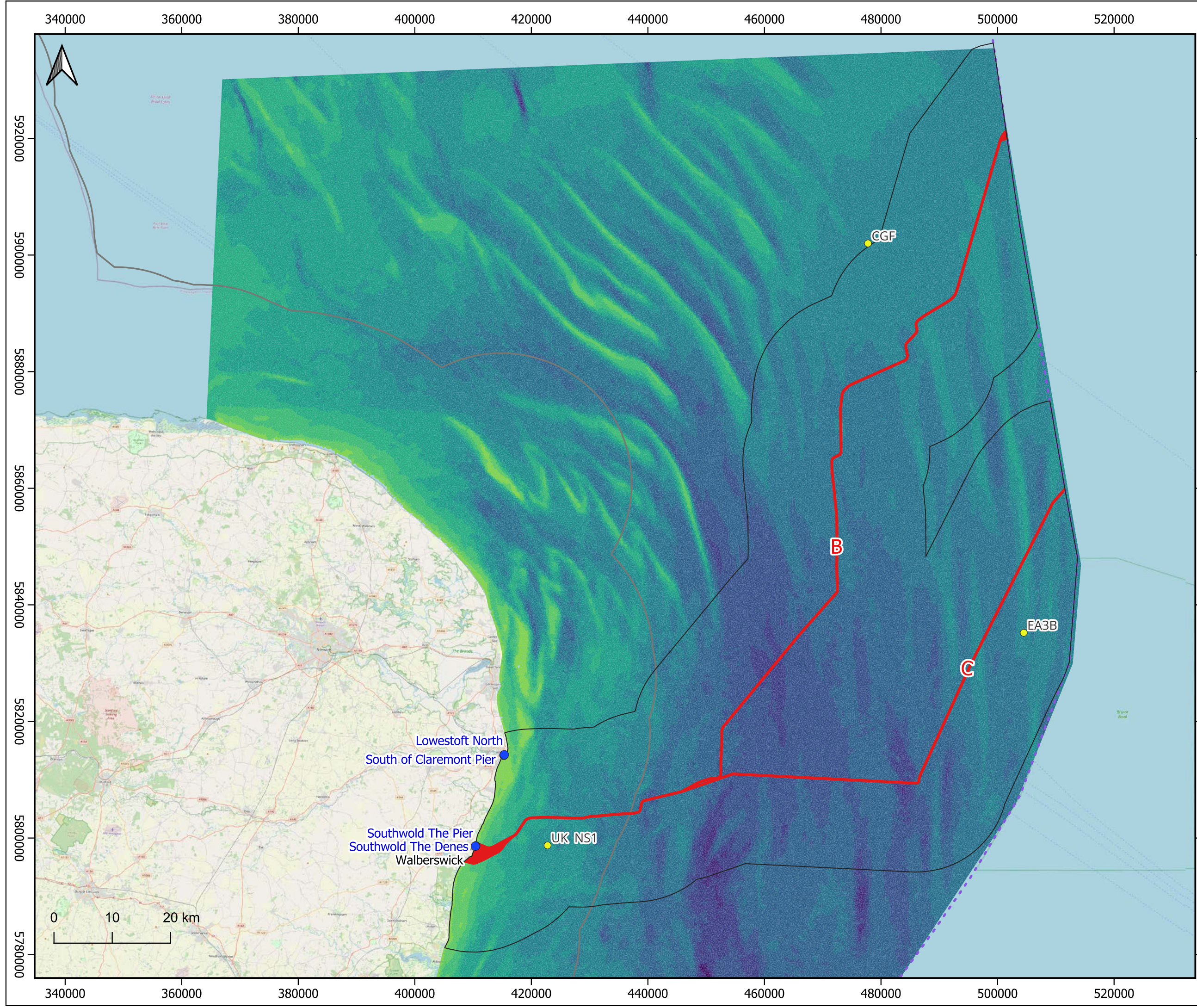


**nationalgrid**

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● Bathing Waters  
● Water Level Locations  
--- Exclusive Economic Zone Limit  
 12NM Limit  
 Offshore Scoping Boundary  
 Study Area  
 Bathymetry (metres)  
 -65.097 - -65  
 -65 - -60  
 -60 - -55  
 -55 - -50  
 -50 - -45  
 -45 - -40  
 -40 - -35  
 -35 - -30  
 -30 - -25  
 -25 - -20  
 -20 - -15  
 -15 - -10  
 -10 - -5  
 -5 - 0

Coordinate System  
WGS 84 / UTM zone 31N

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**LIONLINK**

Project Name  
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Drawing Title  
Figure 18.1 - Marine Physical Environment Study Area  
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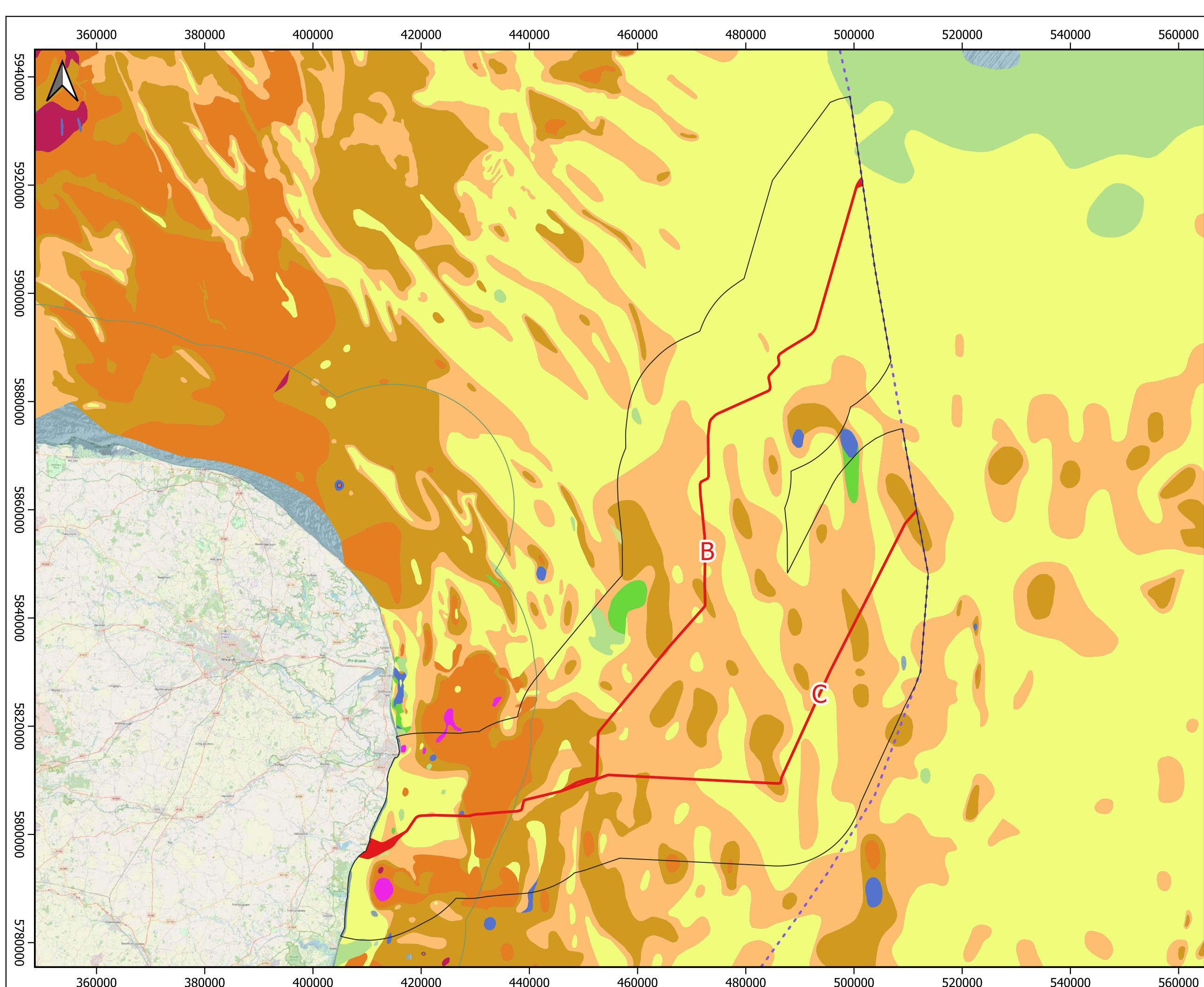
Role  
Marine Physical Environment

Suitability  
Scoping

Project Number  
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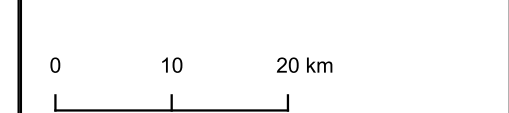
Drawing Number  
C01467-LOC-002-E





- 12NM Limit
- - - Exclusive Economic Zone Limit
- Offshore Scoping Boundary
- Study Area

- Seabed Substrates 1:250k
- 122. (gravelly) sandy Mud
  - 131. muddy Sand
  - 132. (gravelly) muddy Sand
  - 211. Sand
  - 212. (gravelly) Sand
  - 311. gravelly Sand
  - 321. sandy Gravel
  - 331. Gravel
  - 411. gravelly Mud
  - 431. gravelly muddy Sand
  - 441. muddy sandy Gravel



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Figure 18-2 Seabed Sediments  
Across The Study Area

Scale at A3  
1:650000

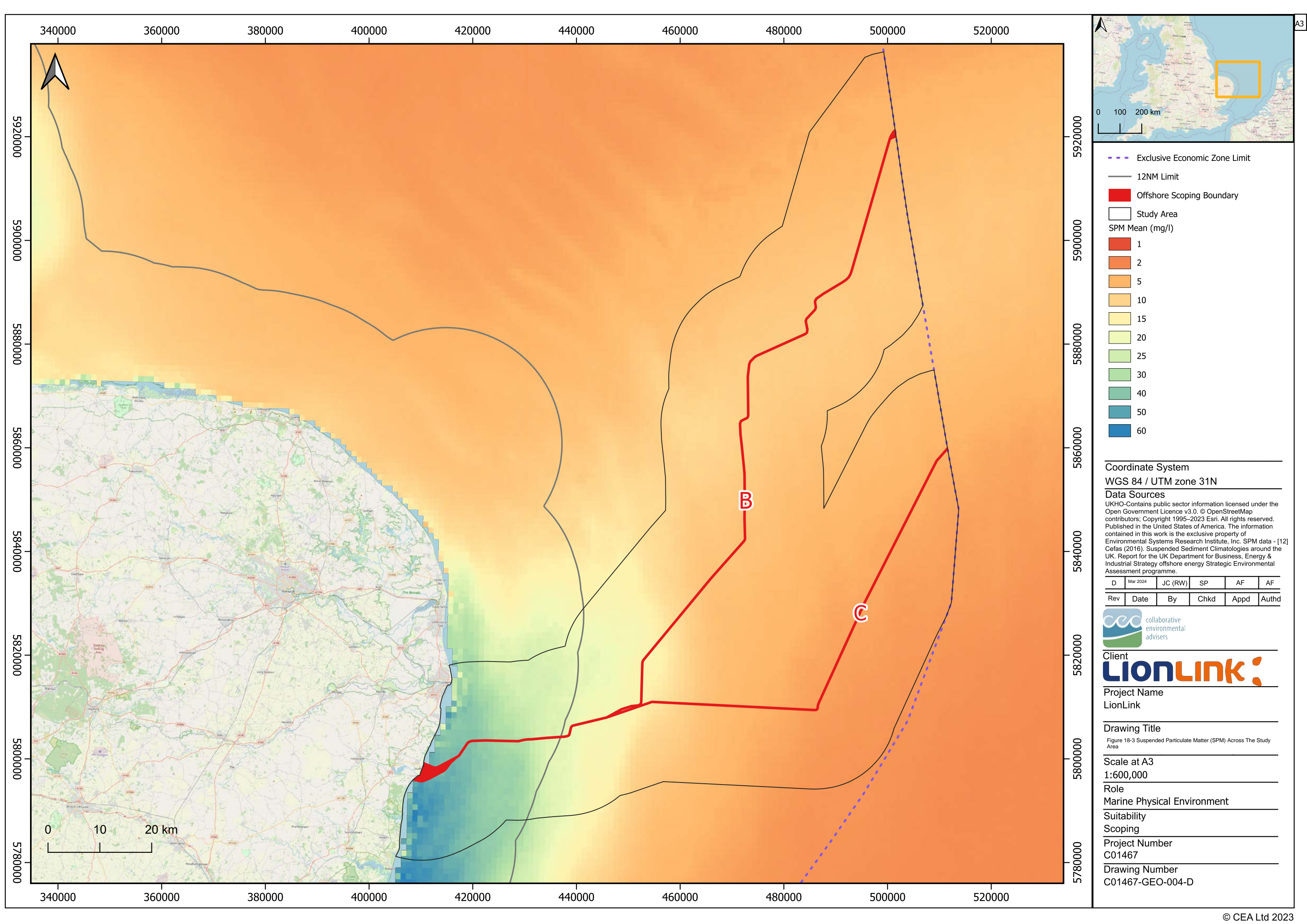
Role  
Intertidal and Subtidal Benthic Ecology

Suitability  
Scoping

Project Number  
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Drawing Number  
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- Exclusive Economic Zone Limit
- 12NM Limit
- █ Offshore Scoping Boundary
- Study Area
- SPM Mean (mg/l)
- █ 1
- █ 2
- █ 5
- █ 10
- █ 15
- █ 20
- █ 25
- █ 30
- █ 40
- █ 50
- █ 60

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Drawing Title  
Figure 18-3 Suspended Particulate Matter (SPM) Across The Study Area

Scale at A3  
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Role  
Marine Physical Environment

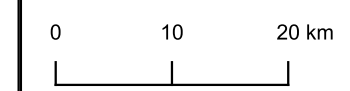
Suitability  
Scoping

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C01467

Drawing Number  
C01467-GEO-004-D



- - - Exclusive Economic Zone Limit
- 12NM Limit
- █ Offshore Scoping Boundary
- Study Area
- ▭ Annex I Sandbanks
- ▨ Special Protection Area (SPA)
- ▩ Marine Conservation Zone (MCZ)
- █ North Norfolk Sandbanks and Saturn Reef SAC (Special Area of Conservation)
- █ Haisborough, Hammond and Winterton SAC
- █ Southern North Sea SAC



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Figure 18-4 Designated Sites

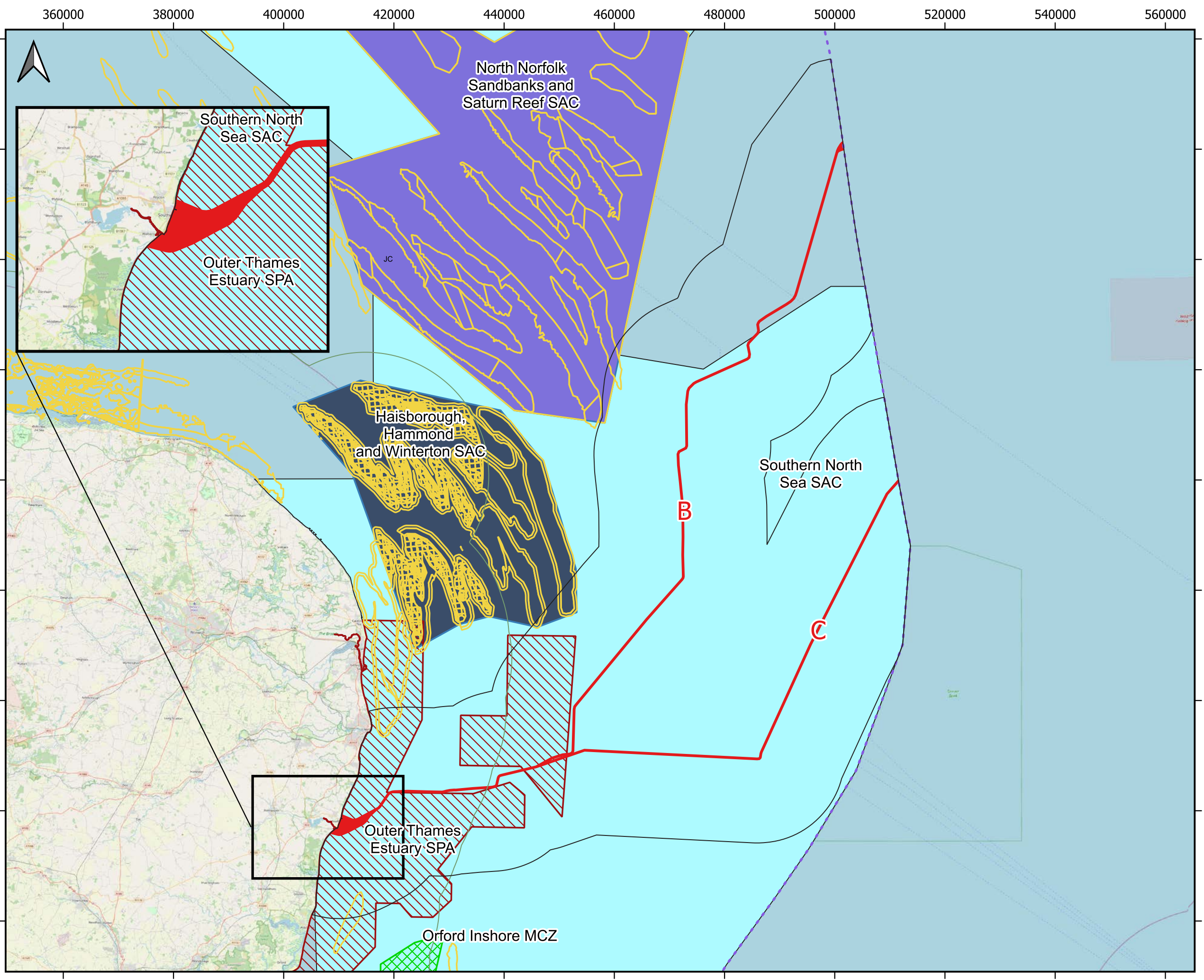
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Role  
Marine Physical Environment

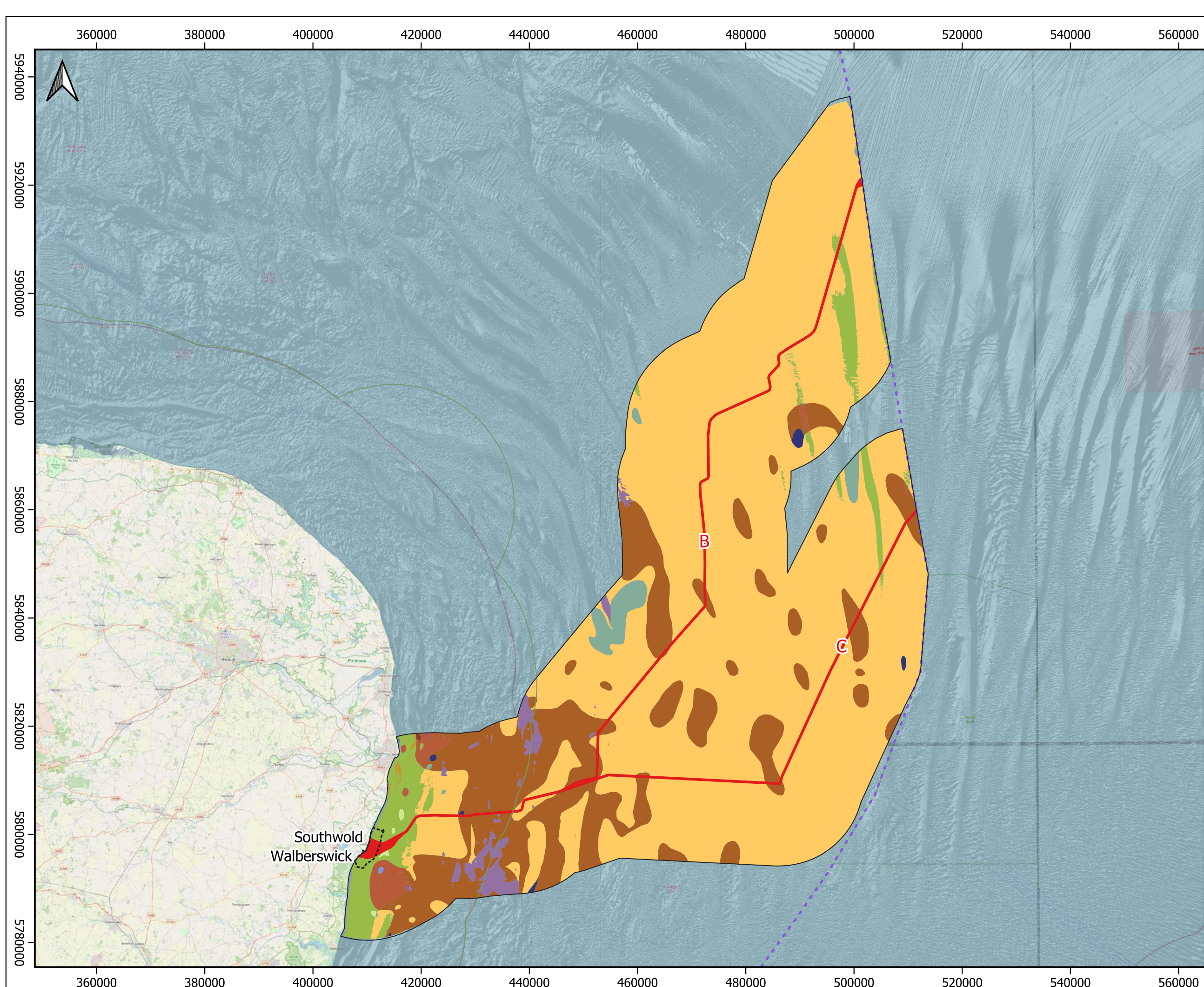
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Scoping

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- 12NM Limit
  - Exclusive Economic Zone Limit
  - Offshore Scoping Boundary
  - Subtidal Benthic Ecology Study Area
  - Intertidal Benthic Ecology Study Area
- EUSeaMap 2021
- A5.13: Infralittoral coarse sediment
  - A5.14: Circalittoral coarse sediment
  - A5.15: Deep 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
  - A5.35: Circalittoral sandy mud
  - A5.37: Deep circalittoral mud
  - A5.44: Circalittoral mixed sediments
  - A5.45: Deep circalittoral mixed sediments
  - A5.6: Sublittoral biogenic reefs
  - A5.61.1: [*Sabellaria spinulosa*] on stable circalittoral mixed sediment
  - Circalittoral seabed

0 10 20 km

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Figure 19-1 Intertidal and Subtidal Benthic Ecology Study Areas and Predicted Habitat Types

Scale at A3  
1:650000

Role  
Intertidal and Subtidal Benthic Ecology

Suitability  
Scoping

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Drawing Number  
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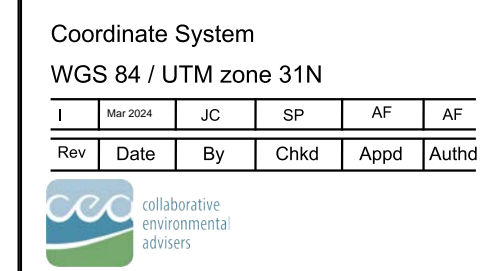
0 100 200 km

- Exclusive Economic Zone Limit
- 12NM Limit
- █ Offshore Scoping Boundary
- Intertidal Benthic Ecology Study Area
- ▭ Subtidal Benthic Ecology Study Area
- ▨ SAC
- ▨ SPA
- ▨ MCZ
- █ SSSI
- Annex I Reefs
- ▭ Annex I Sandbanks
- Annex I Reefs
  - █ Bedrock and/or Stony
  - █ Biogenic

0 10 20 km

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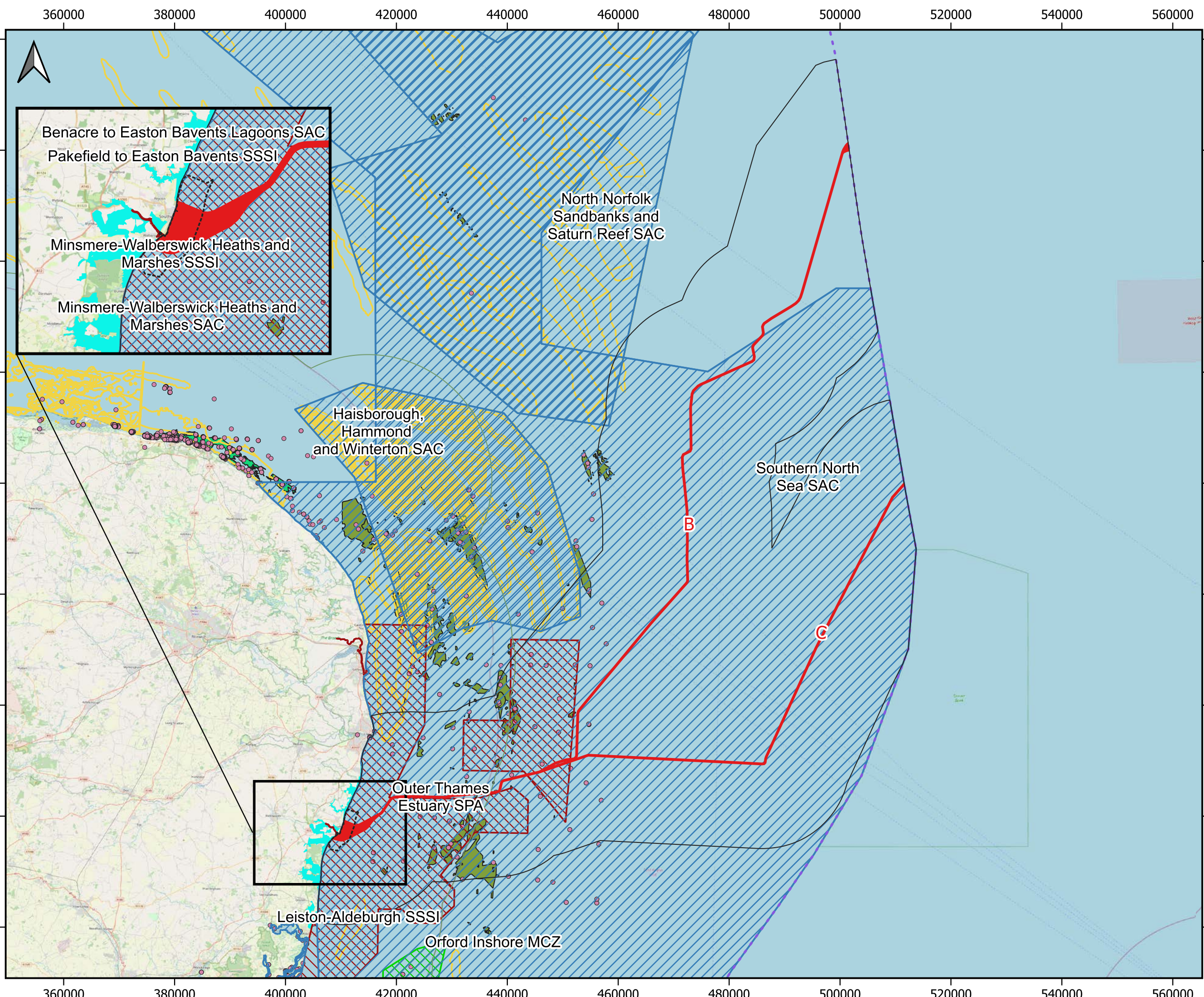
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Figure 19.2 Relevant designated sites and features within the benthic ecology study areas

Scale at A3  
1:650000

Role  
Intertidal and Subtidal Benthic Ecology  
Suitability  
Scoping

Project Number  
C01467

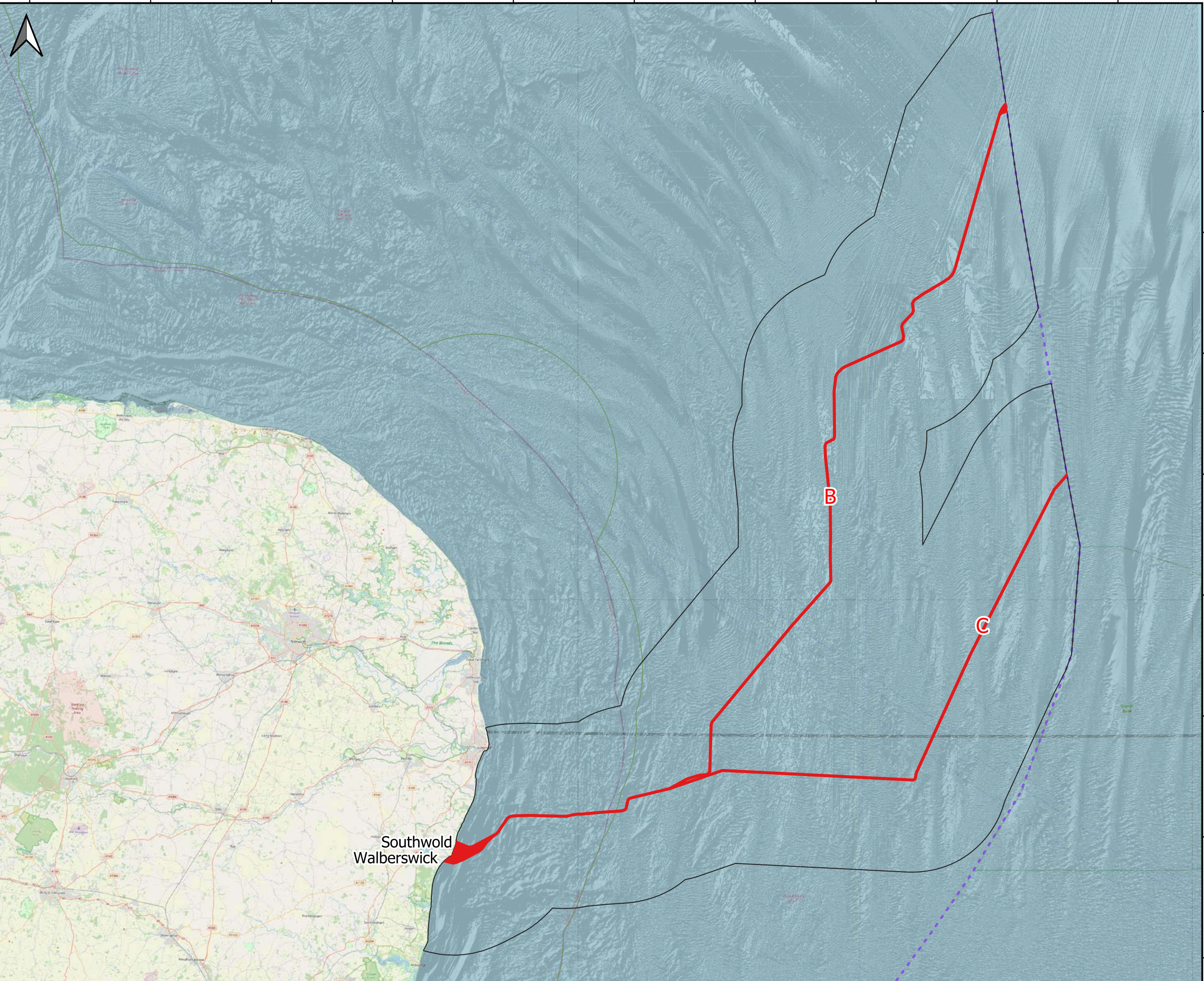
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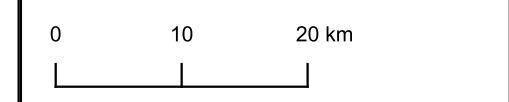
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340000 360000 380000 400000 420000 440000 460000 480000 500000 520000



- Exclusive Economic Zone Limit
- 12NM Limit
- Offshore Scoping Boundary
- Study Area



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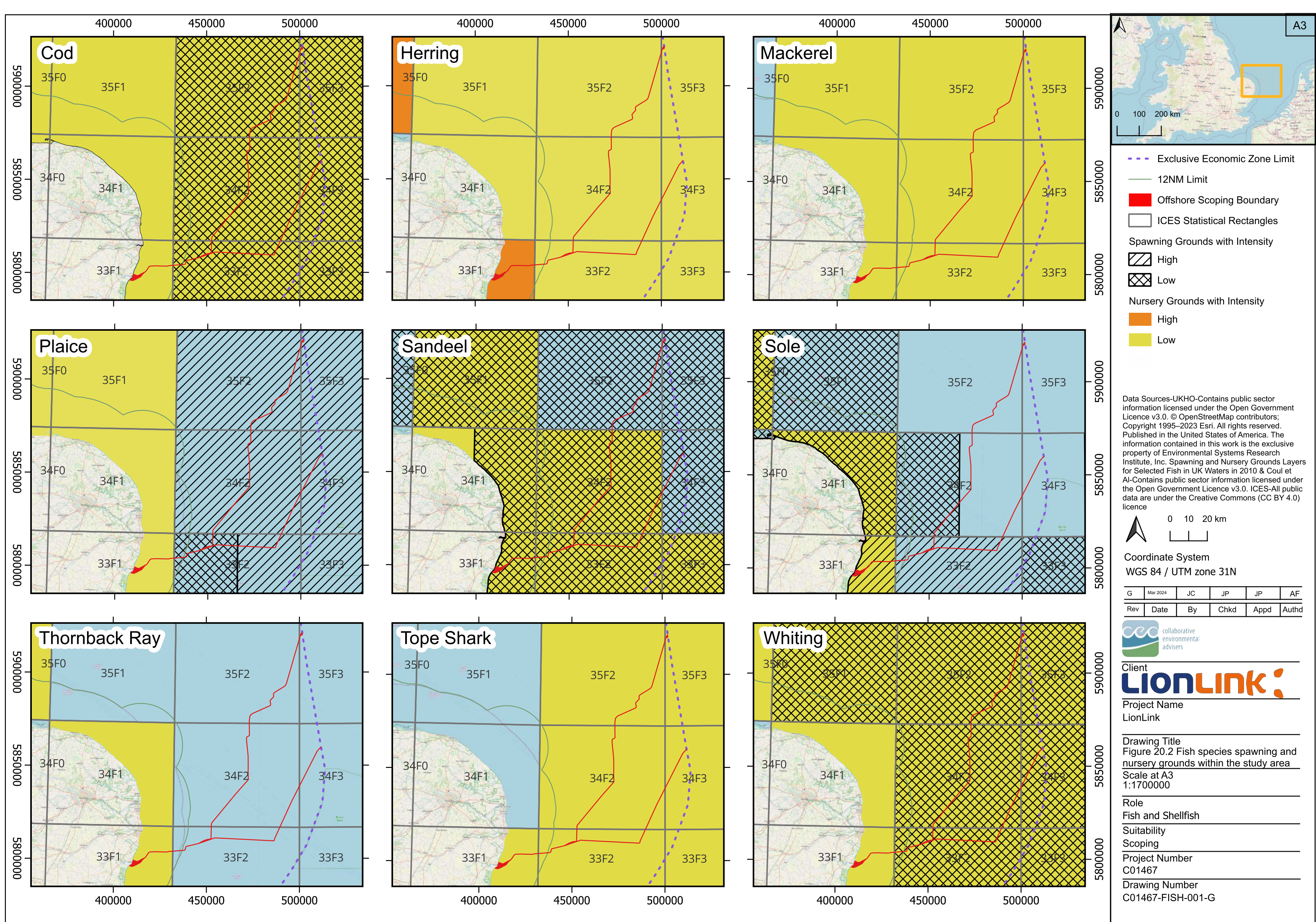
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Drawing Title  
Figure 20.1 Fish and Shellfish Study Area  
Scale at A3  
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Role  
Fish and Shellfish  
Suitability  
Scoping

Project Number  
C01467  
Drawing Number  
C01467-FISH-002-E



- Exclusive Economic Zone Limit
- 12NM Limit
- Offshore Scoping Boundary
- ICES Statistical Rectangles
- Spawning Grounds with Intensity
  - High
  - Low
- Nursery Grounds with Intensity
  - High
  - Low

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0 10 20 km

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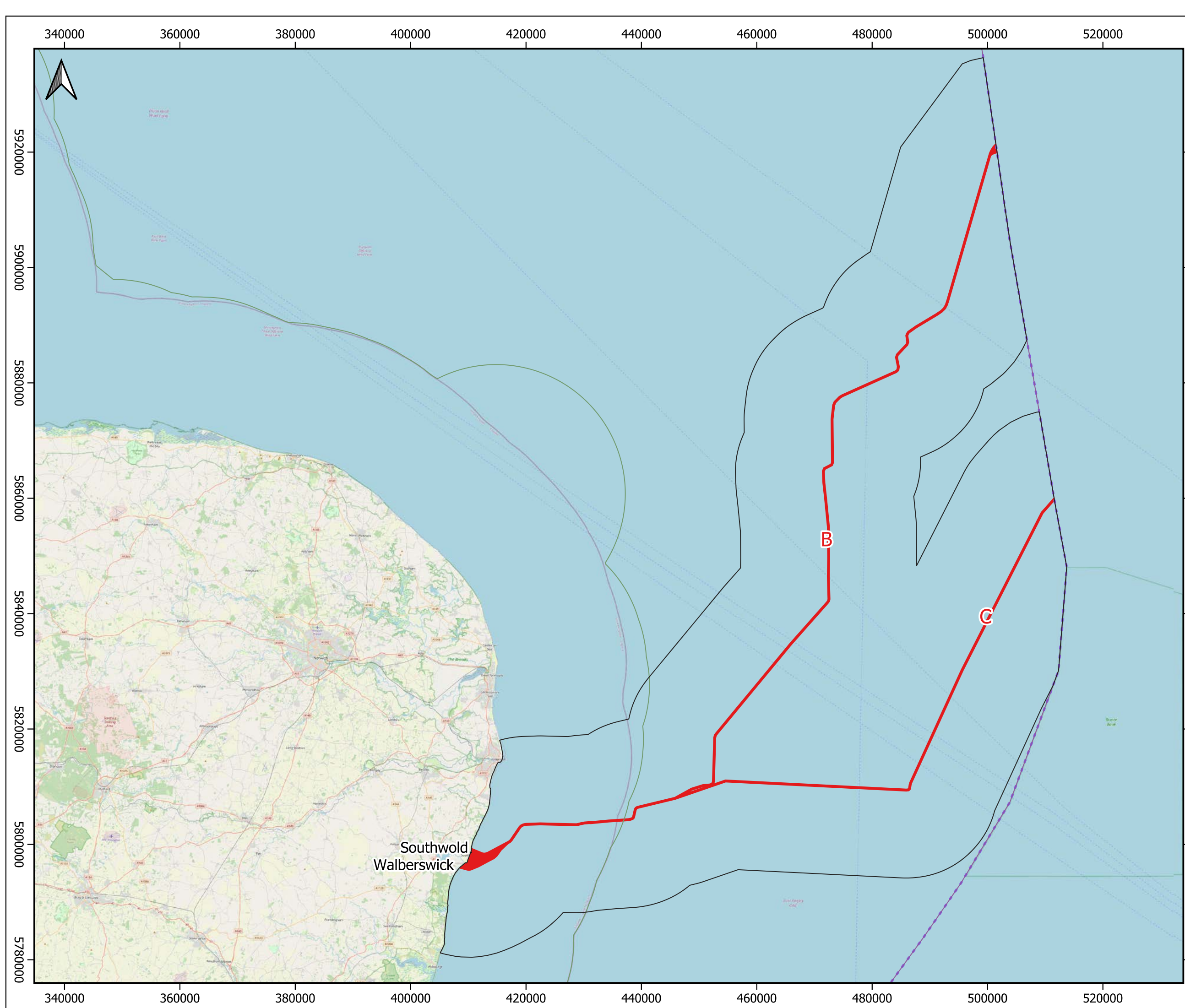
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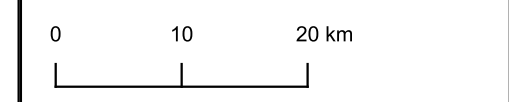
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Project Name  
LionLink

Drawing Title  
Figure 20.2 Fish species spawning and nursery grounds within the study area  
Scale at A3  
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Role  
Fish and Shellfish  
Suitability  
Scoping  
Project Number  
C01467  
Drawing Number  
C01467-FISH-001-G



- Offshore Scoping Boundary
- - - Exclusive Economic Zone Limit
- 12NM Limit
- Study Area



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Figure 21.1 Intertidal and Offshore Ornithology Study Area including designated sites

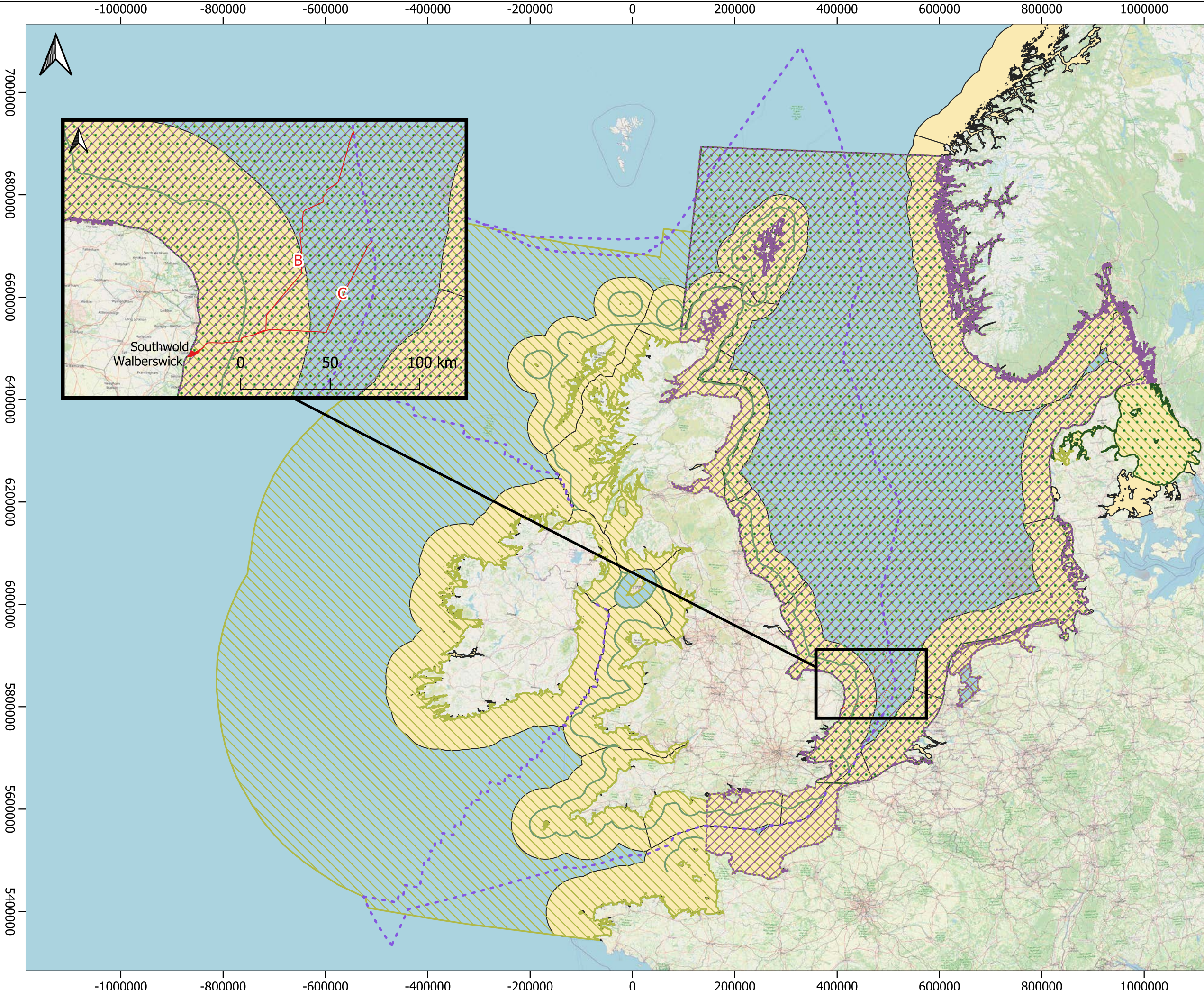
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Role  
Intertidal and Offshore Ornithology

Suitability  
Scoping

Project Number  
C01467

Drawing Number  
C01467-BIRD-001-E



- Offshore Scoping Boundary
- Exclusive Economic Zone Limit (EEZ)
- 12NM Limit
- Marine Mammal Management Units
- North Sea (Harbour Porpoise)
- Greater North Sea (Bottlenose Dolphin)
- Celtic and Greater North Sea (Short-Beaked Dolphin, White-Beaked Dolphin and Minke Whale)
- OSPAR Seal Indicator Assessment Units

0 100 200 km

Coordinate System  
WGS 84 / UTM zone 31N

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Drawing Title  
Figure 22-1 Marine Mammals study area

Scale at A3  
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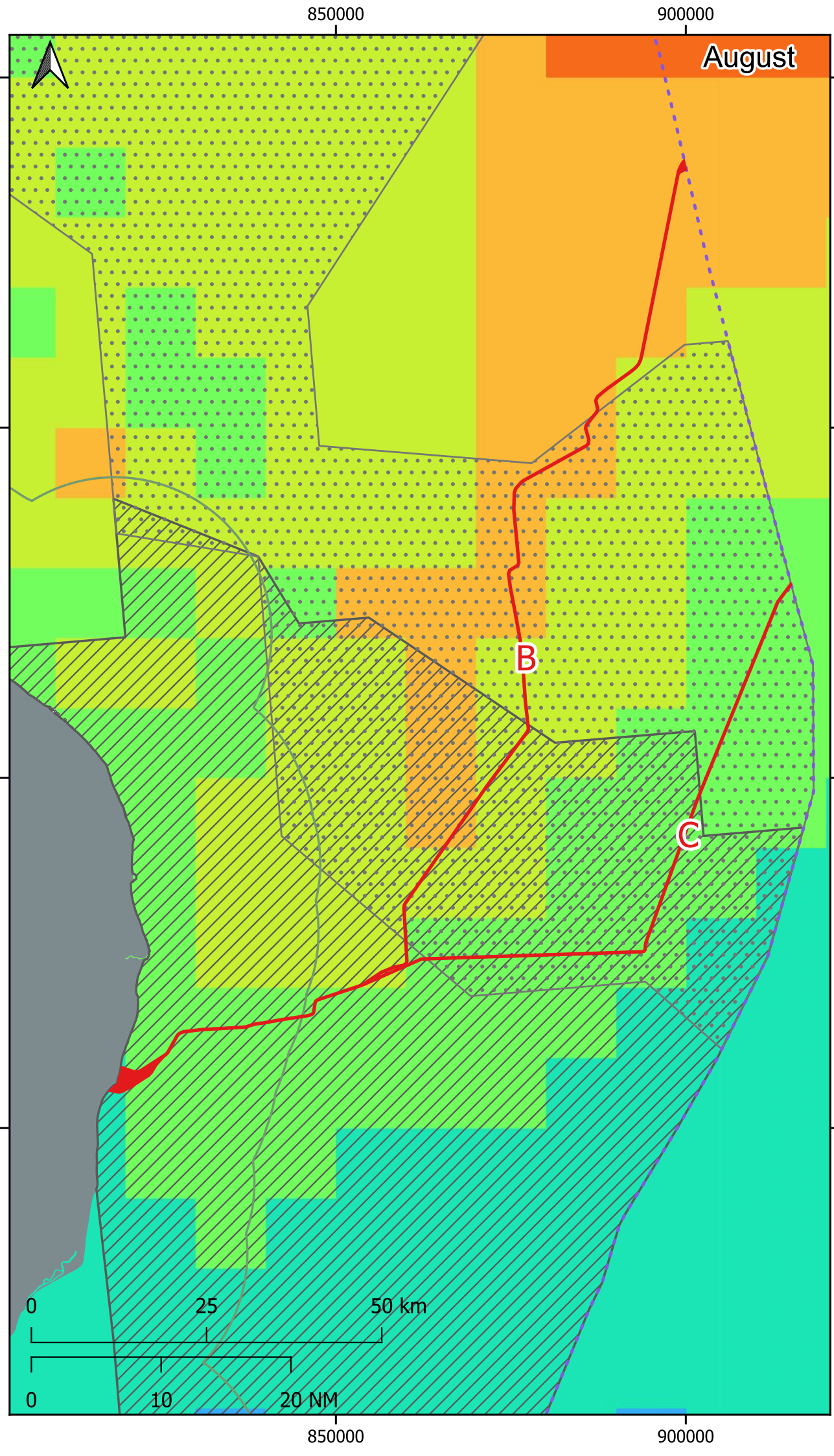
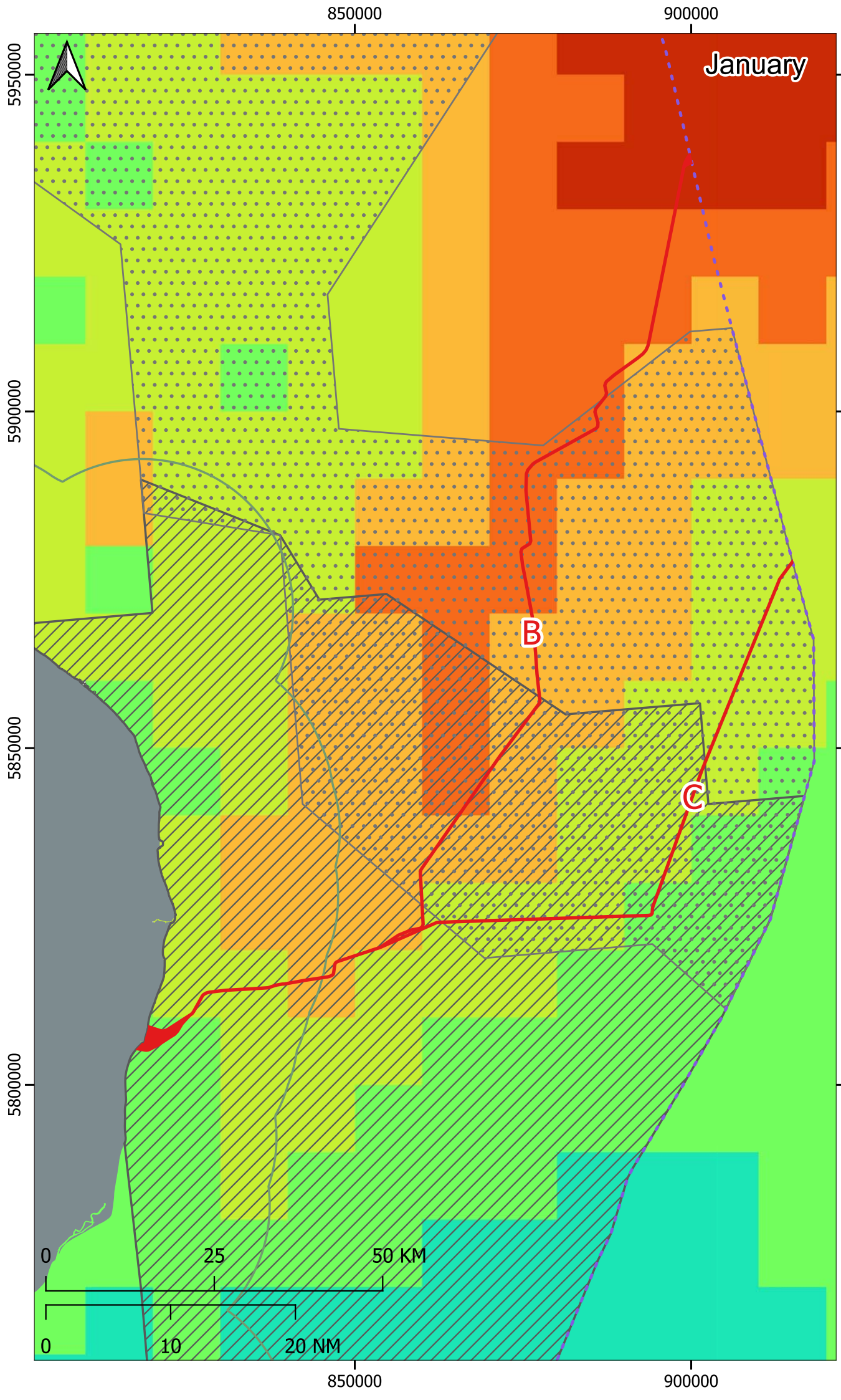
Role  
Marine Mammals and Marine Reptiles

Suitability  
Scoping

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- EEZ
  - 12NM Limit
  - Offshore Scoping Boundary
  - Harbour Porpoise Summer Area (Southern North Sea SAC)
  - Harbour Porpoise Winter Area (Southern North Sea SAC)
- Harbour Porpoise (Animals/ km<sup>2</sup>)
- <= 0.0938
  - 0.0938 - 0.2198
  - 0.2198 - 0.3298
  - 0.3298 - 0.4397
  - 0.4397 - 0.5496
  - 0.5496 - 0.6595
  - 0.6595 - 0.7694
  - 0.7694 - 0.8794
  - 0.8794 - 0.9893
  - > 0.9893
- Coordinate System  
WGS 84 / UTM zone 30N  
Universal Transverse Mercator (UTM)  
Map Units: meters
- Data Sources  
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Drawing Title  
Figure 22.2- Harbour Porpoise Densities

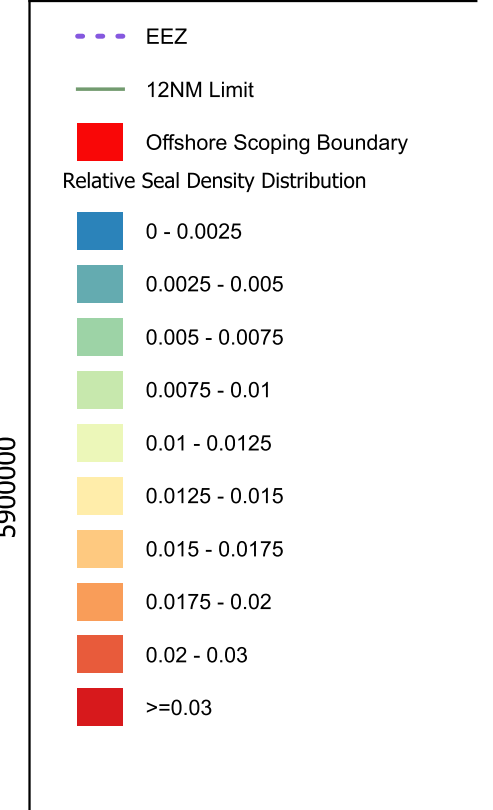
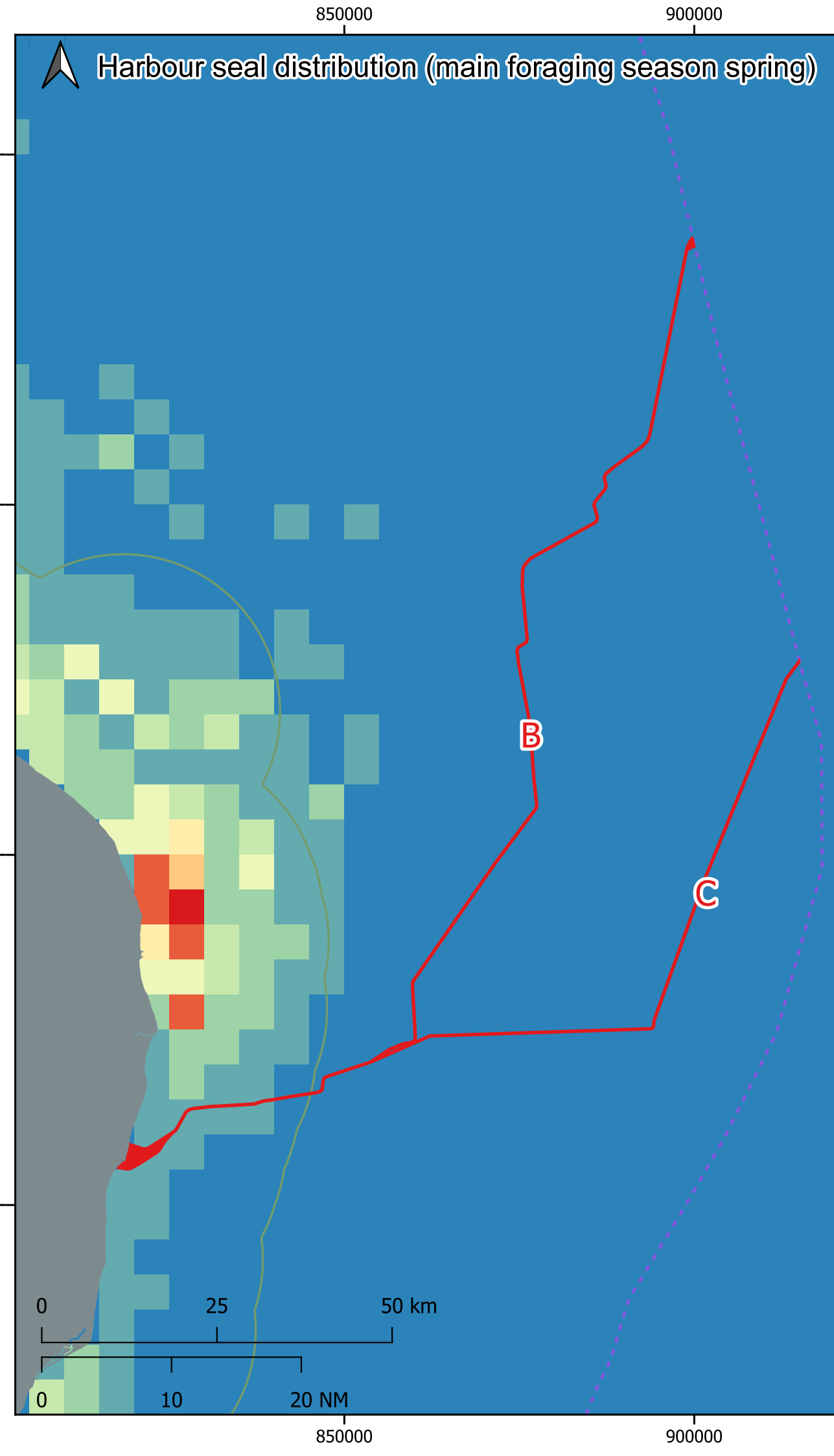
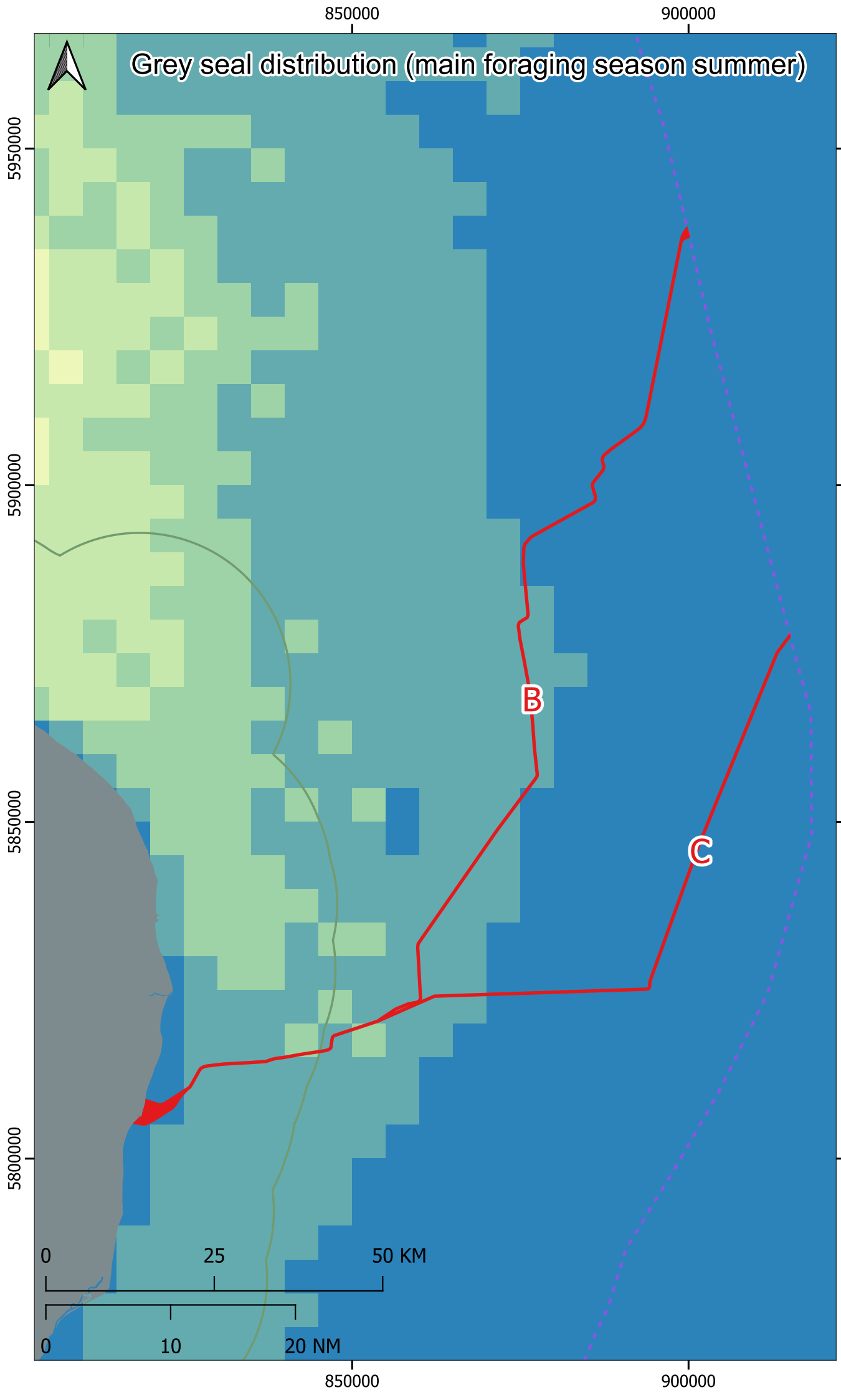
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Role  
Marine Mammals and Marine Reptiles

Suitability  
Scoping

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Figure 22.3-Grey Seal And Harbour Seal Densities Within the Study Area

Scale at A3  
1:700,000

Role  
Marine Mammals and Marine Reptiles

Suitability  
Scoping

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Drawing Number  
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150000

200000

250000

300000

350000

400000



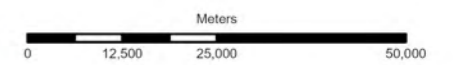
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### Legend

- Shipping and Navigation Study Area
- Offshore Scoping Boundary

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**Figure 23-1 Overview of Study Area**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number

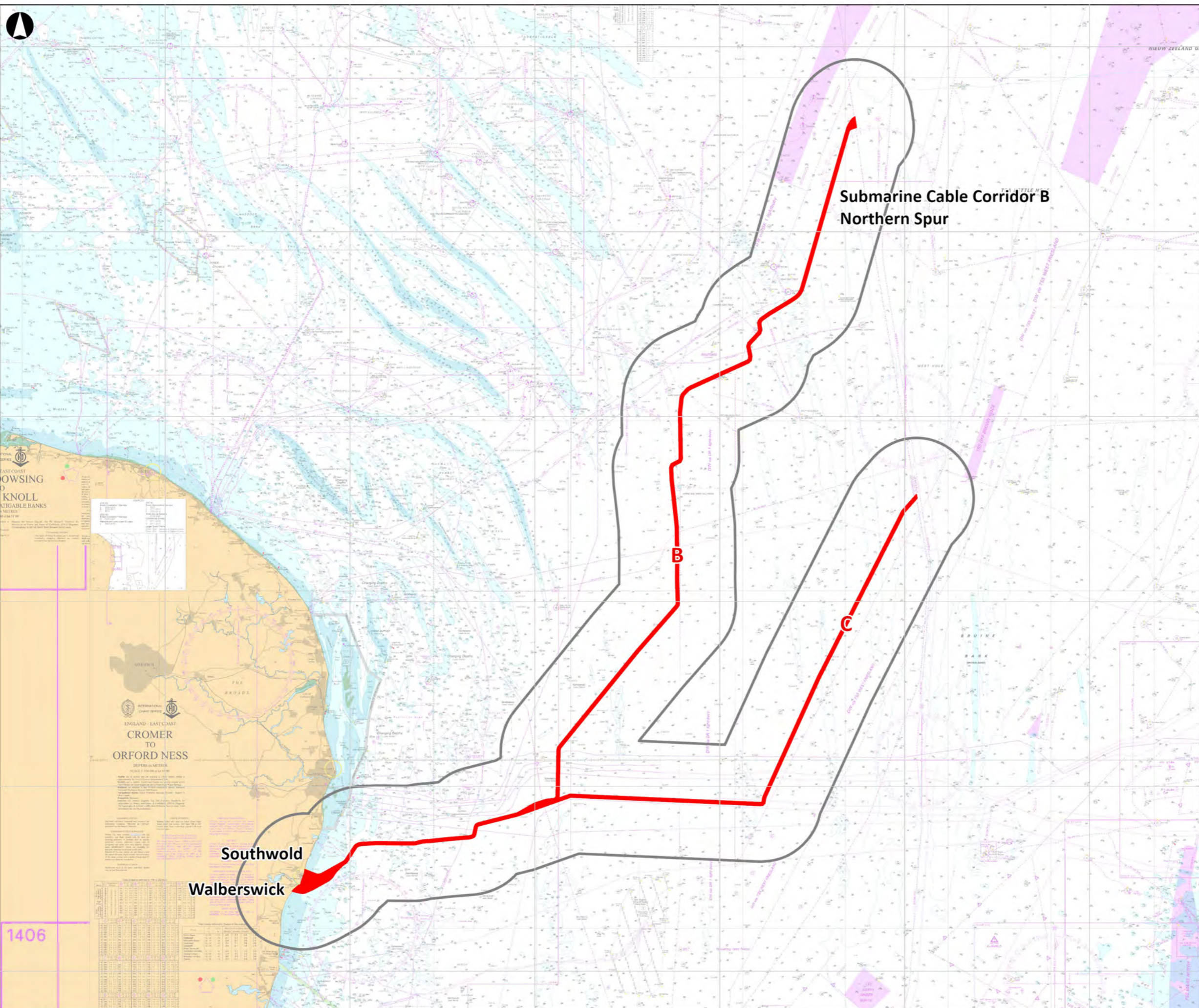
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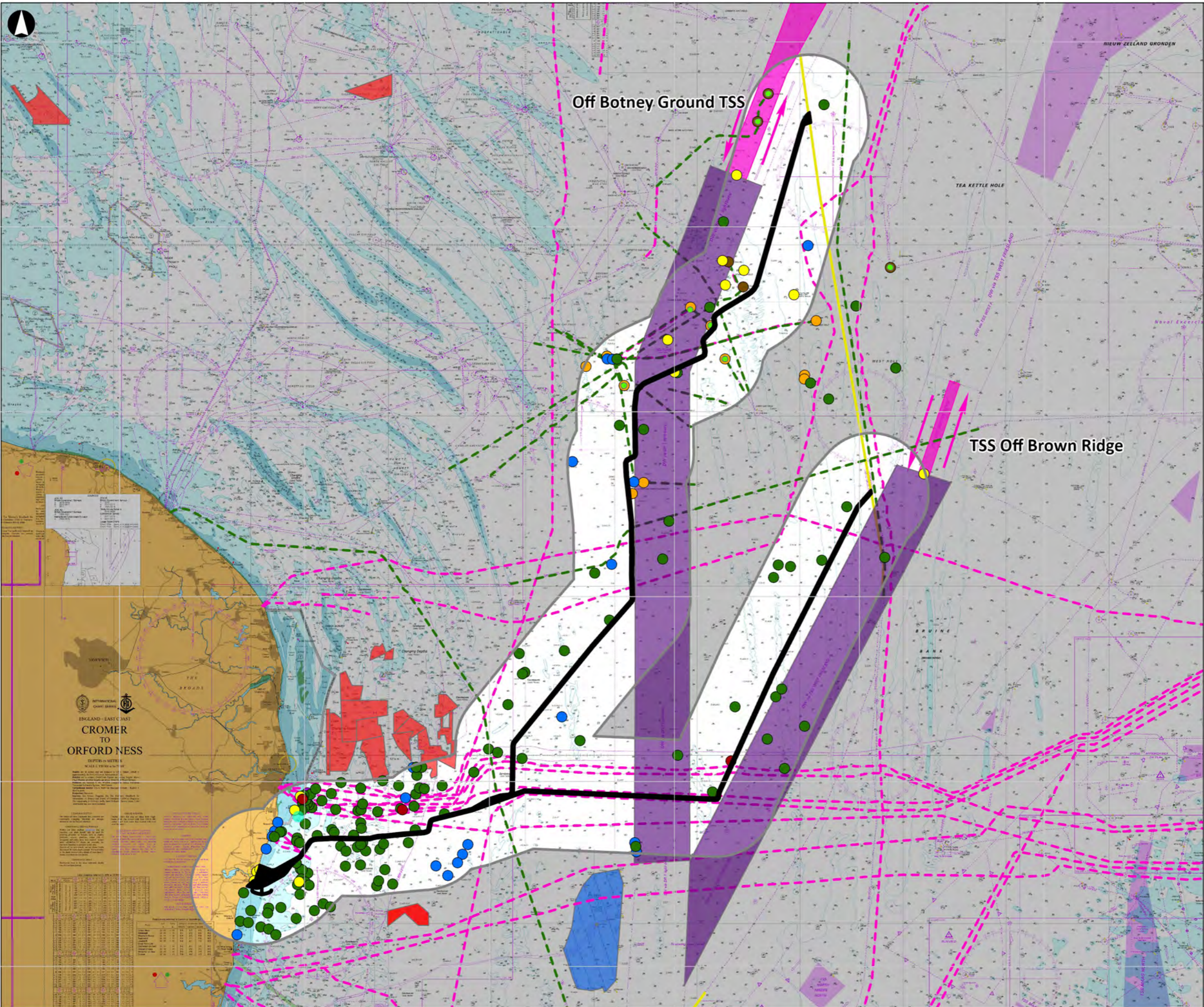
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Drawing Number

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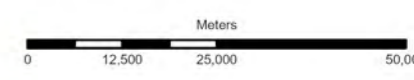




- Legend**
- Shipping and Navigation Study Area
  - Offshore Scoping Boundary
  - Aid to Navigation
  - Charted Obstruction
  - Charted Wreck
  - Pilot Boarding Station
  - Platform
  - Unexploded Ordnance
  - Well
  - Charted Anchorage
  - Subsea Cable
  - Pipeline
  - United Kingdom Border
  - Area to be Avoided
  - Deep Water Route
  - Designated Anchorage
  - Dredging Area
  - Traffic Separation Scheme
  - Wind Farm

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Drawing Title

**Figure 23-2 Navigational Features**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number	Rev
<b>A5001</b>	<b>00</b>
Drawing Number	
<b>A5001-ANA-SCO-002</b>	





**Legend**

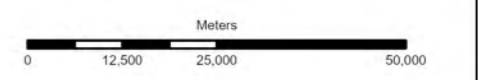
- Shipping and Navigation Study Area
- Offshore Scoping Boundary

**Vessel Type**

- Unspecified
- Military
- Dredger/Underwater Ops
- Tug
- Passenger
- Cargo
- Tanker
- Other
- Oil and Gas
- Wind Farm

Coordinate System: WGS 1984 World Mercator

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**LionLink**

Drawing Title

**Figure 23-3 Commercial Vessels by Type (Three Months, Summer)**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number	Rev
<b>A5001</b>	<b>00</b>
Drawing Number	
<b>A5001-ANA-SCO-004</b>	

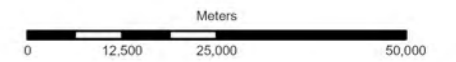


**Legend**

- Shipping and Navigation Study Area
- Offshore Scoping Boundary
- Vessel Type**
- Military
- Dredger/Underwater Ops
- Tug
- Passenger
- Cargo
- Tanker
- Other
- Oil and Gas
- Wind Farm

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Drawing Title  
**Figure 23-4 Commercial Vessels by Type (Three Months, Winter)**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number

**A5001**

Rev

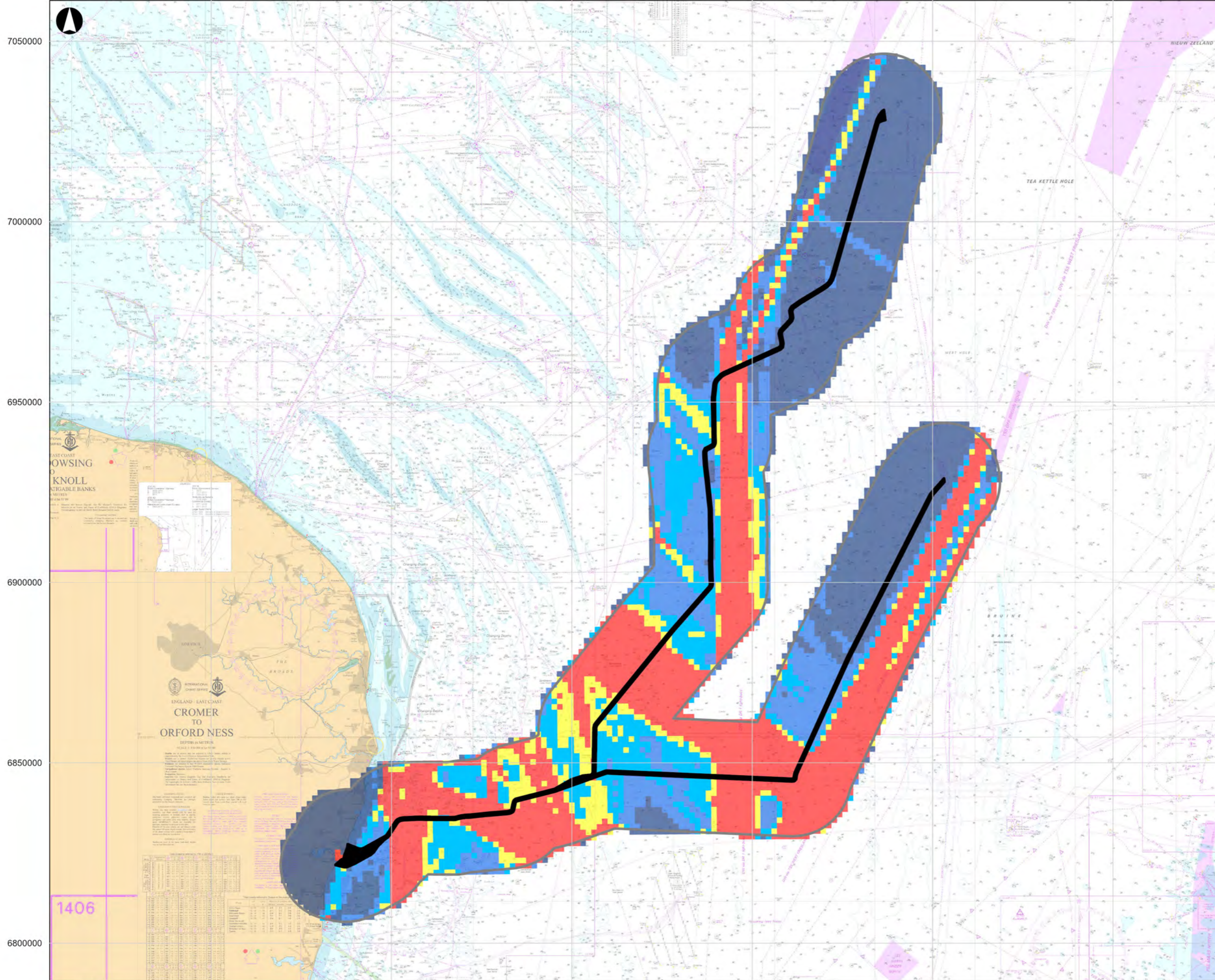
**00**

Drawing Number

**A5001-ANA-SCO-005**

1406

150000 200000 250000 300000 350000 400000



**Legend**

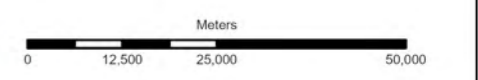
- Shipping and Navigation Study Area
- Offshore Scoping Boundary

**Vessel Density**

- Highest
- 
- 
- Lowest

Coordinate System: WGS 1984 World Mercator

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**LionLink**

Drawing Title

**Figure 23-5 Commercial Vessel Density (Six Months, Summer And Winter)**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number	Rev
<b>A5001</b>	<b>00</b>
Drawing Number	
<b>A5001-ANA-SCO-003</b>	

1406

150000

200000

250000

300000

350000

400000



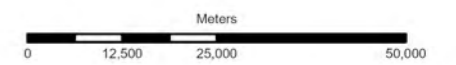
A3

**Legend**

- Shipping and Navigation Study Area
- Offshore Scoping Boundary
- Activity**
- Actively Fishing
- Transiting

Coordinate System: WGS 1984 World Mercator

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Project Name  
**LionLink**

Drawing Title  
**Figure 23-6 Fishing Vessels by Activity (Six Months, Summer And Winter)**

Scale at A3

**1:1,000,000**

Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number

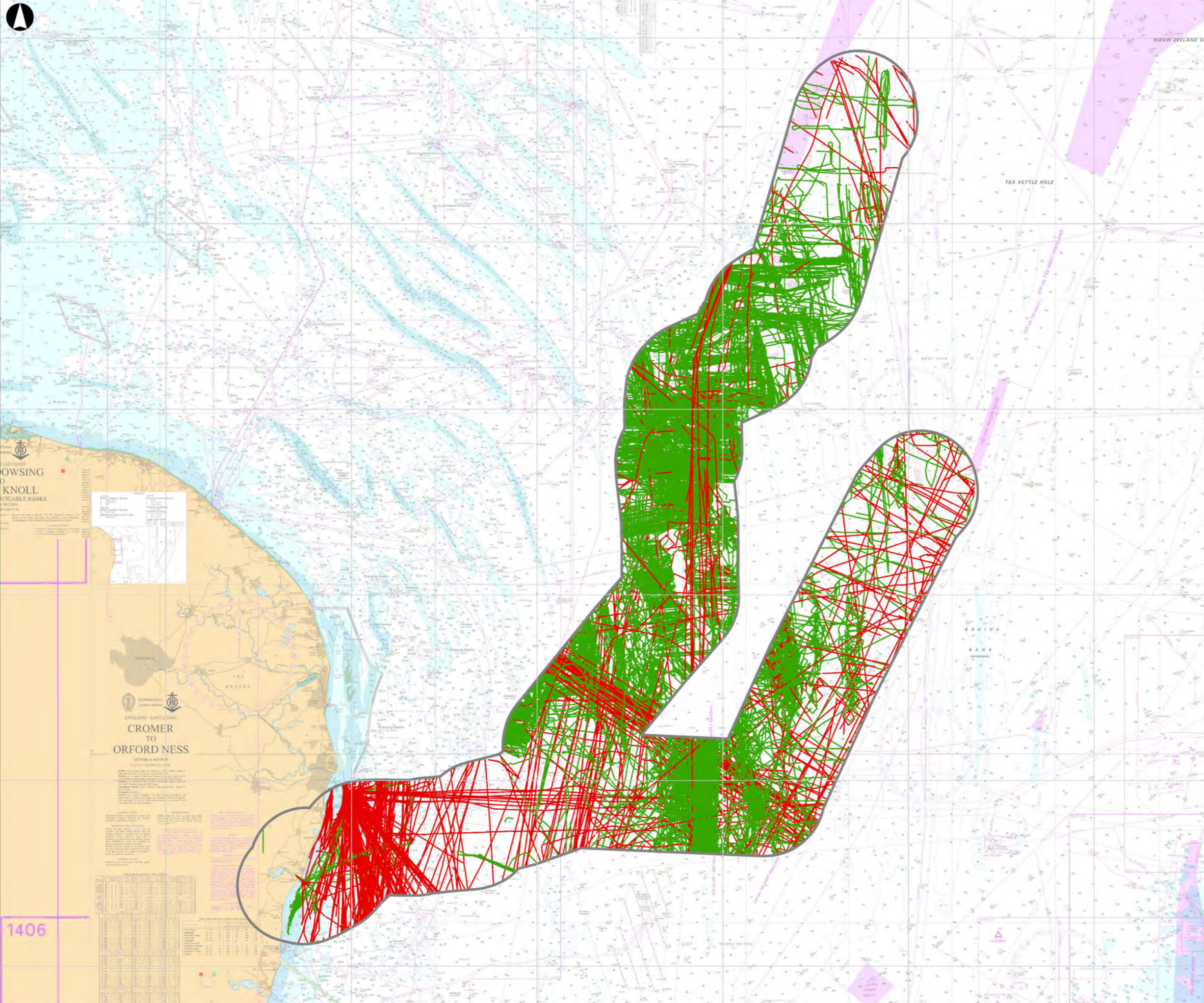
**A5001**

Rev

**00**

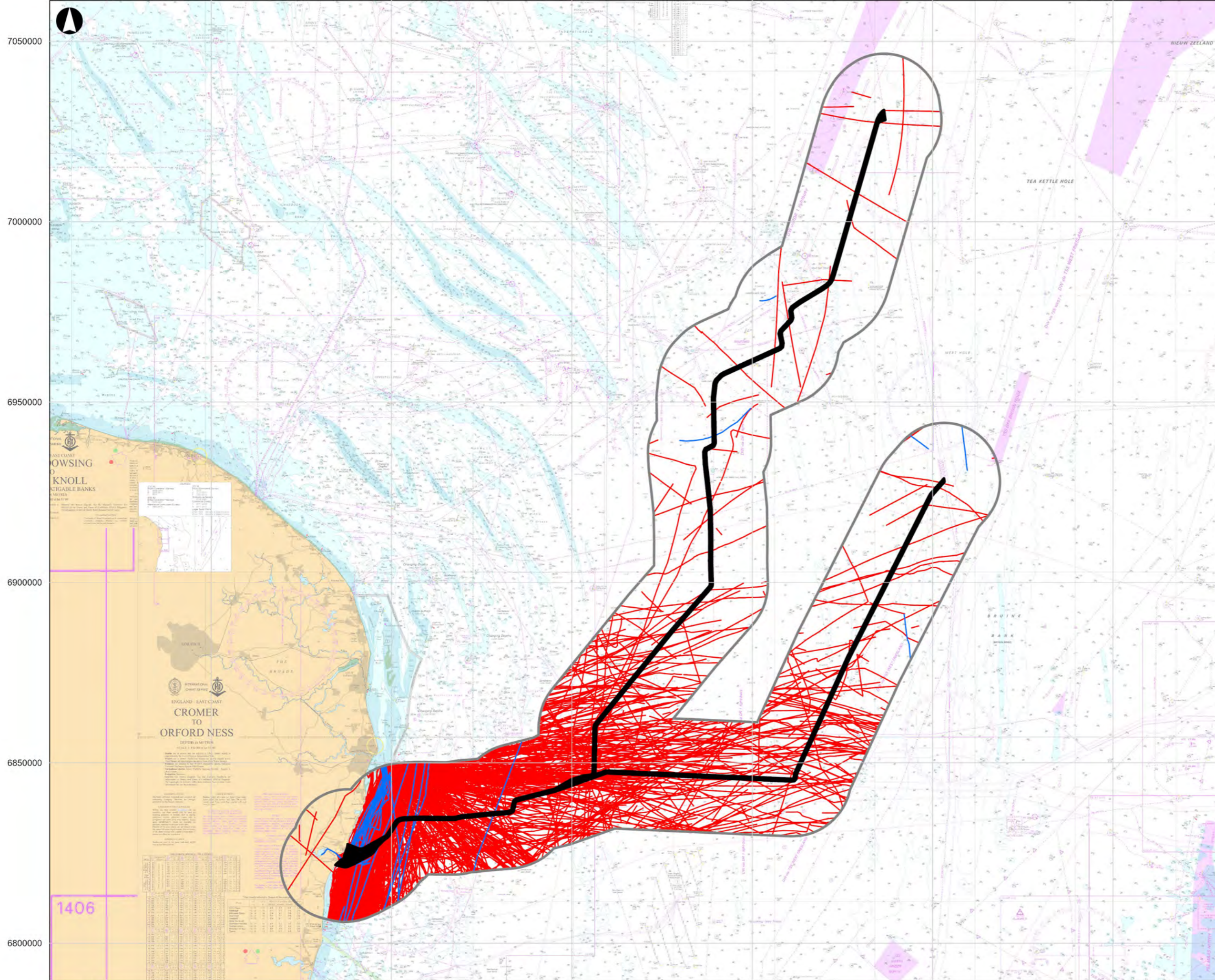
Drawing Number

**A5001-ANA-SCO-006**



1406

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**Legend**

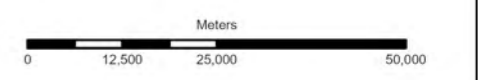
- Shipping and Navigation Study Area
- Offshore Scoping Boundary

**Season**

- Summer
- Winter

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Drawing Title

**Figure 23-7 Recreational Vessels by Season (Six Months, Summer And Winter)**

Scale at A3

**1:1,000,000**

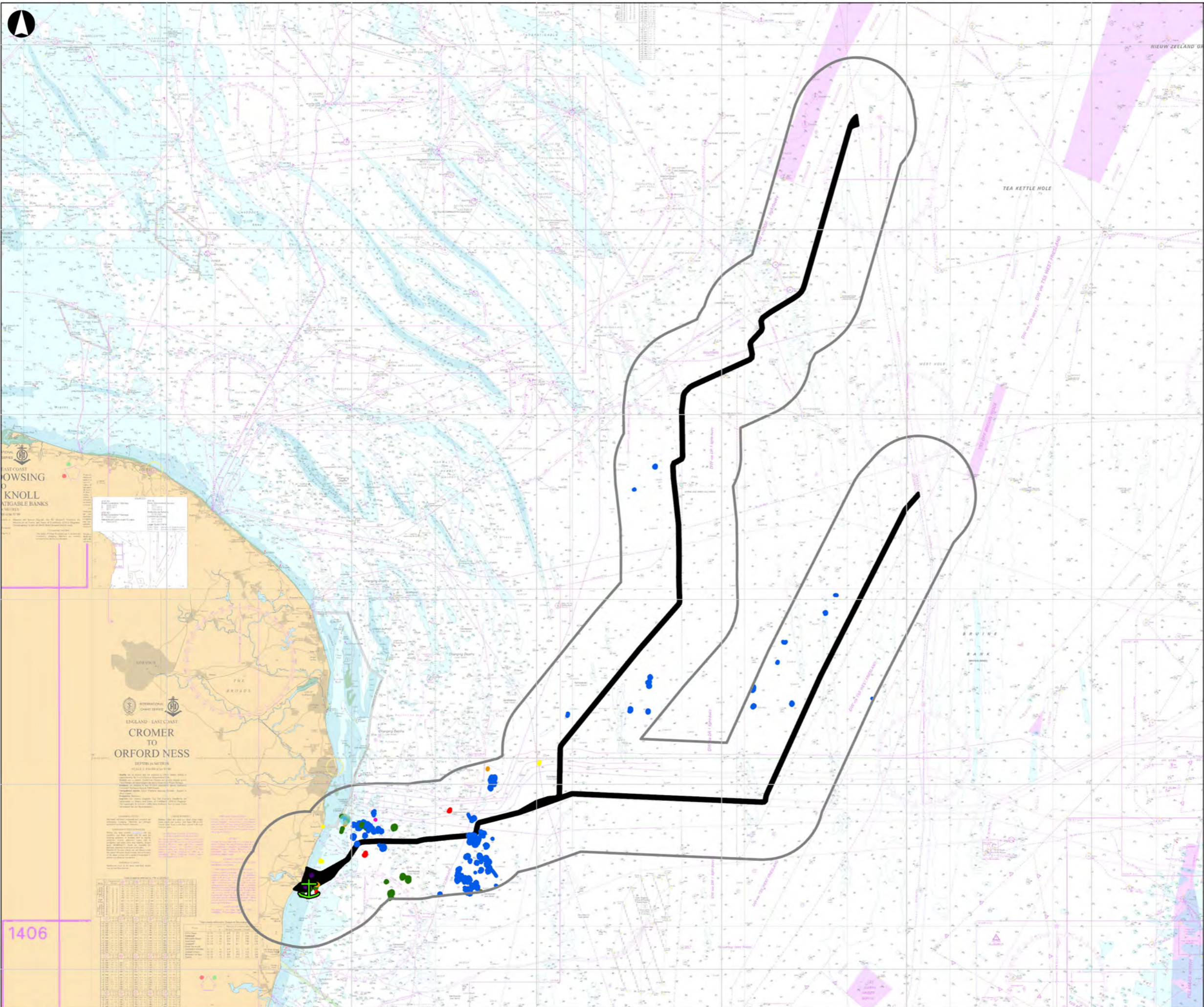
Role

**Shipping and Navigation**

Suitability

**Scoping**

Project Number	Rev
<b>A5001</b>	<b>00</b>
Drawing Number	
<b>A5001-ANA-SCO-007</b>	



**Legend**

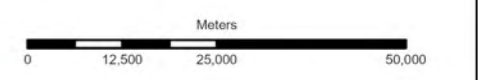
- Shipping and Navigation Study Area
- Offshore Scoping Boundary
- Charted Anchorage
- Designated Anchorage

**Vessel Type**

- Dredger/Underwater Ops
- Tug
- Passenger
- Cargo
- Tanker
- Other
- Recreational
- Oil and Gas

Coordinate System: WGS 1984 World Mercator

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Project Name

**LionLink**

Drawing Title

**Figure 23-8 Anchored Vessels by Type (Six Months, Summer and Winter)**

Scale at A3

**1:1,000,000**

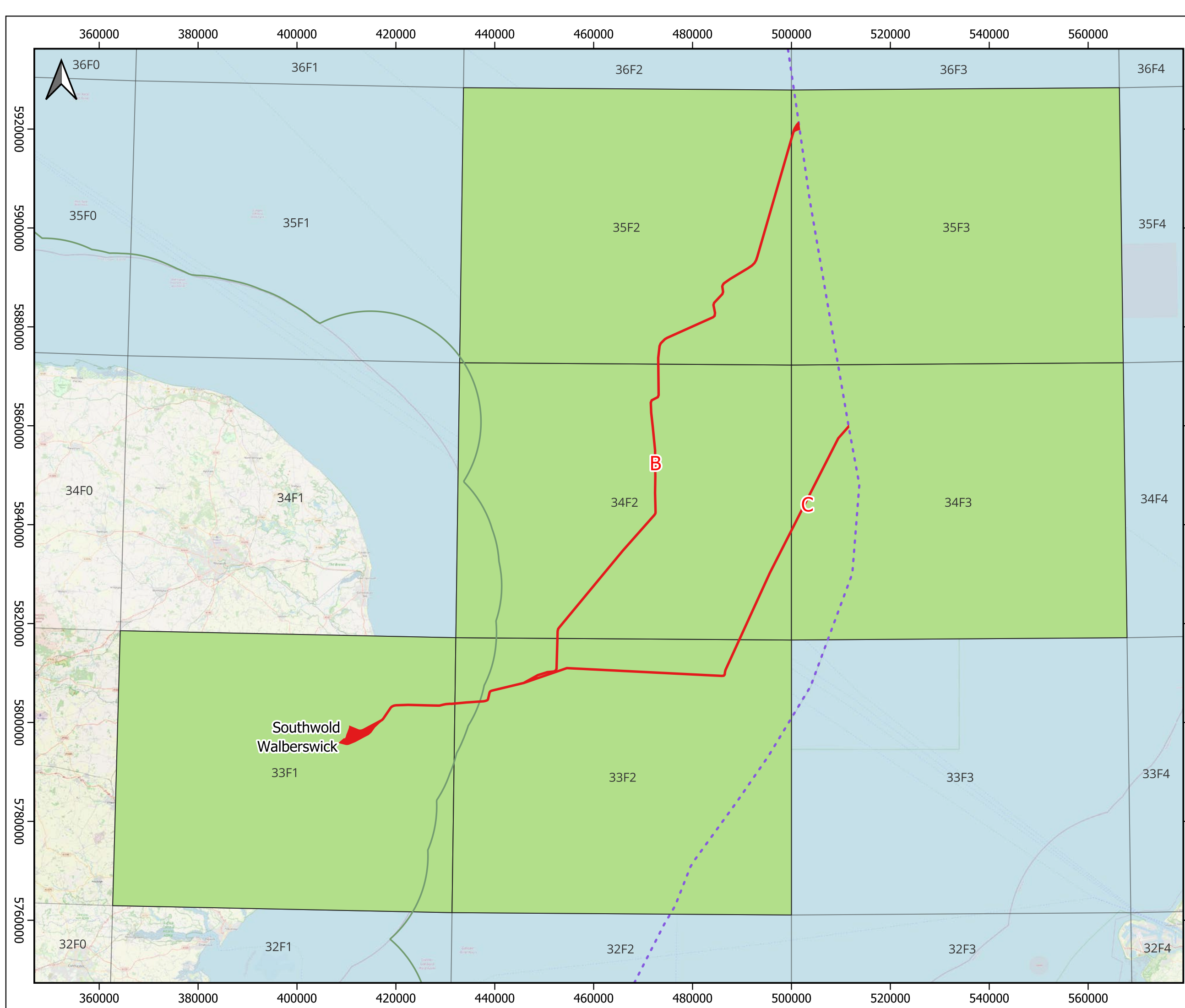
Role

**Shipping and Navigation**

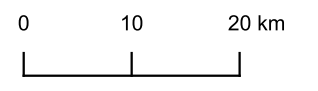
Suitability

**Scoping**

Project Number	Rev
<b>A5001</b>	<b>00</b>
Drawing Number	
<b>A5001-ANA-SCO-008</b>	



- - - Exclusive Economic Zone Limit
- 12NM Limit
- Offshore Scoping Boundary
- ICES Statistical Rectangles
- ICES Rectangles in Study Area



Coordinate System  
WGS 84 / UTM zone 31N

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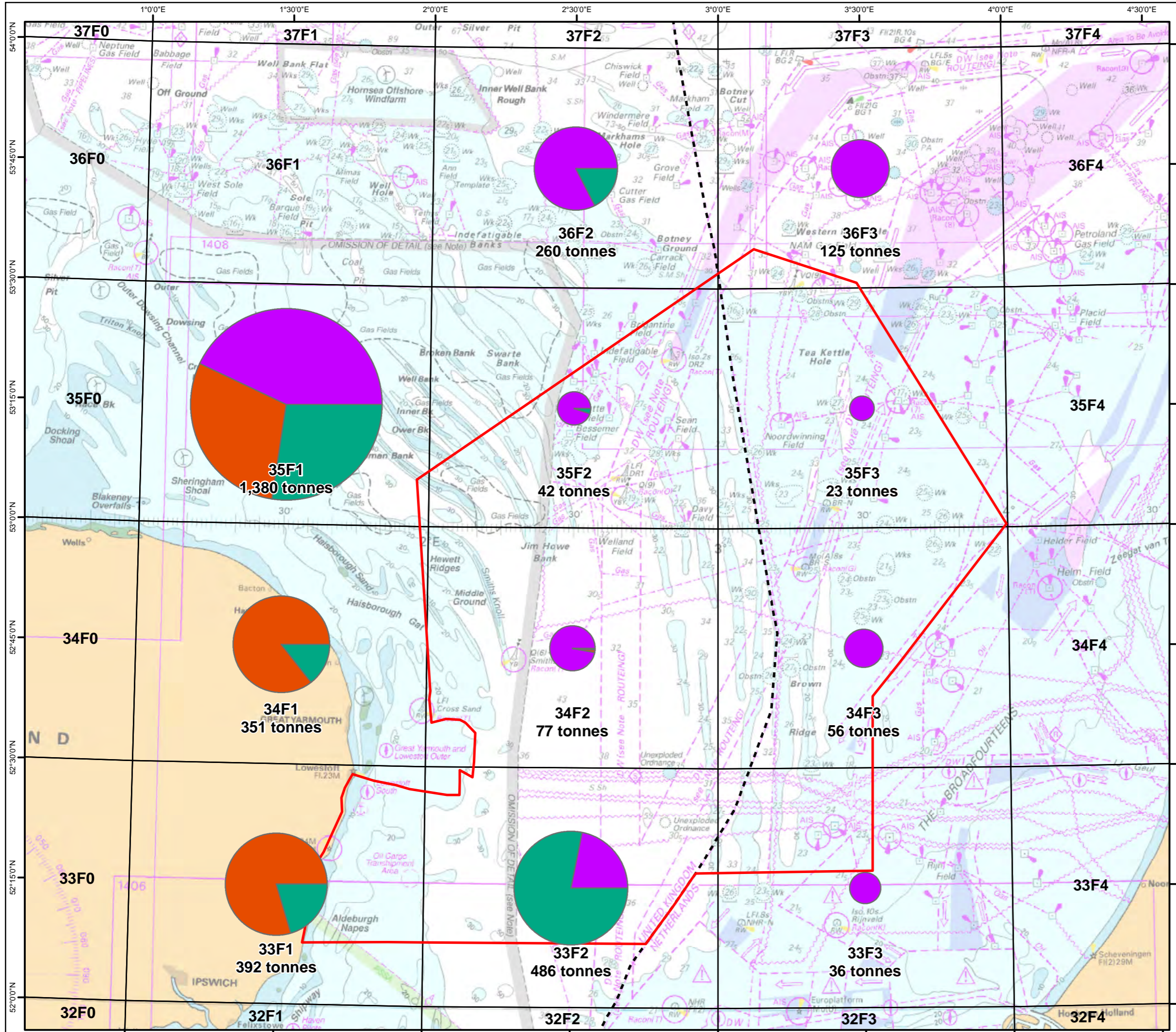
Client  
**LIONLINK**

Project Name  
LionLink

Drawing Title  
Figure 24.1 Commercial Fisheries Study Area  
 Scale at A3  
1:700000

Role  
Commercial Fisheries  
 Suitability  
Scoping

Project Number  
C01467  
 Drawing Number  
C01467-FISH-003-F

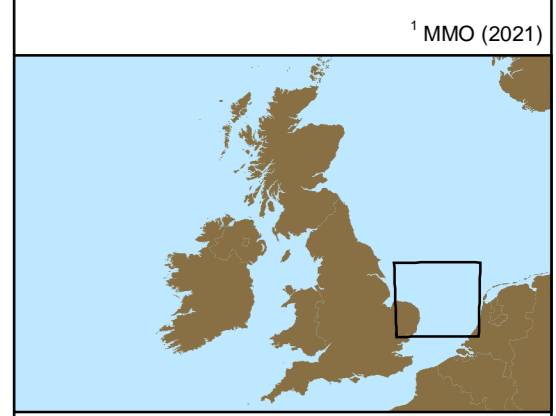


**Legend**

- Study Area
- ICES Rectangles
- UK EEZ
- 6 NM Limit
- 12 NM Limit

**Length<sup>1</sup>**

- 15m and Over
- 10m and Under
- 10m to 15m



<sup>1</sup> MMO (2021)

Horizontal Scale: 1:850,000 A3 Chart

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 Kilometres

Geodetic Parameters: WGS 1984 UTM Zone 30N

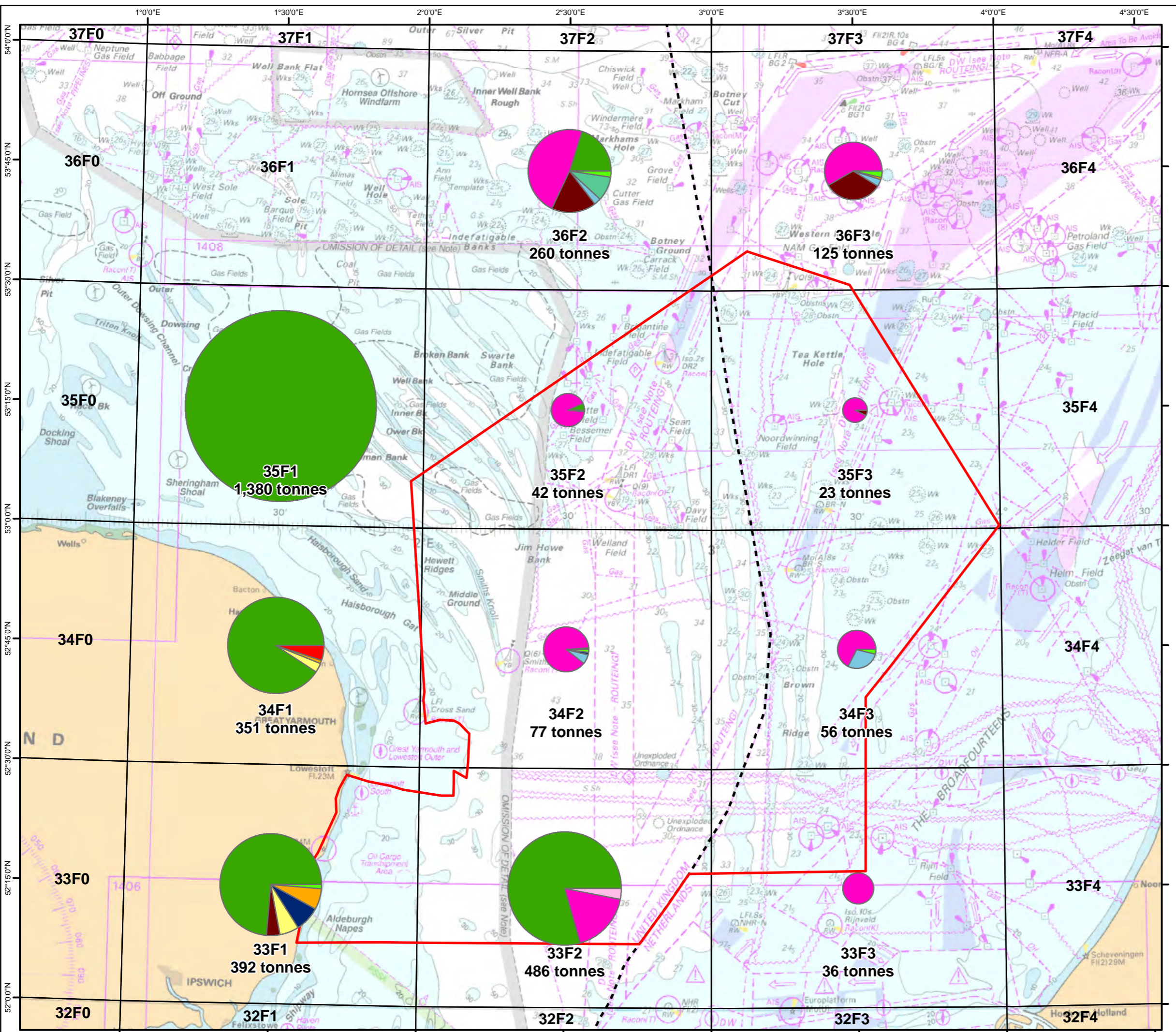
Produced: RK	Reviewed: JK	Approved: RK
Date: Mar 2024	REV: 01	Desc:

REF: Intertek\_EL\_02-043

Drawing Title  
**Figure 24-2 UK Landings Weight by Vessel Length Between 2016 And 2020 (MMO)**

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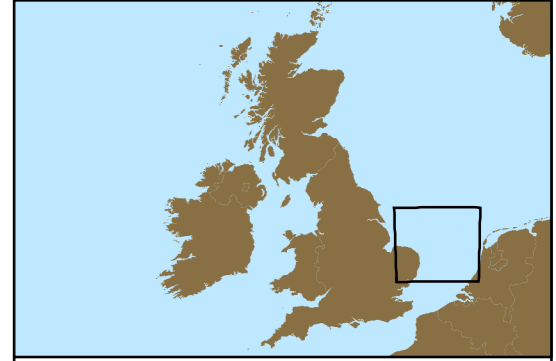
**Legend**

- Study Area
- ICES Rectangles
- UK EEZ
- 6 NM Limit
- 12 NM Limit

**Method<sup>1</sup>**

- Pots
- Beam\_trawls
- Bottom\_otter\_trawls
- Scottish\_seines
- Driftnets
- Longlines
- Gillnets
- Boat\_dredges
- Miscellaneous\_gear
- Midwater\_pair\_trawls
- Other

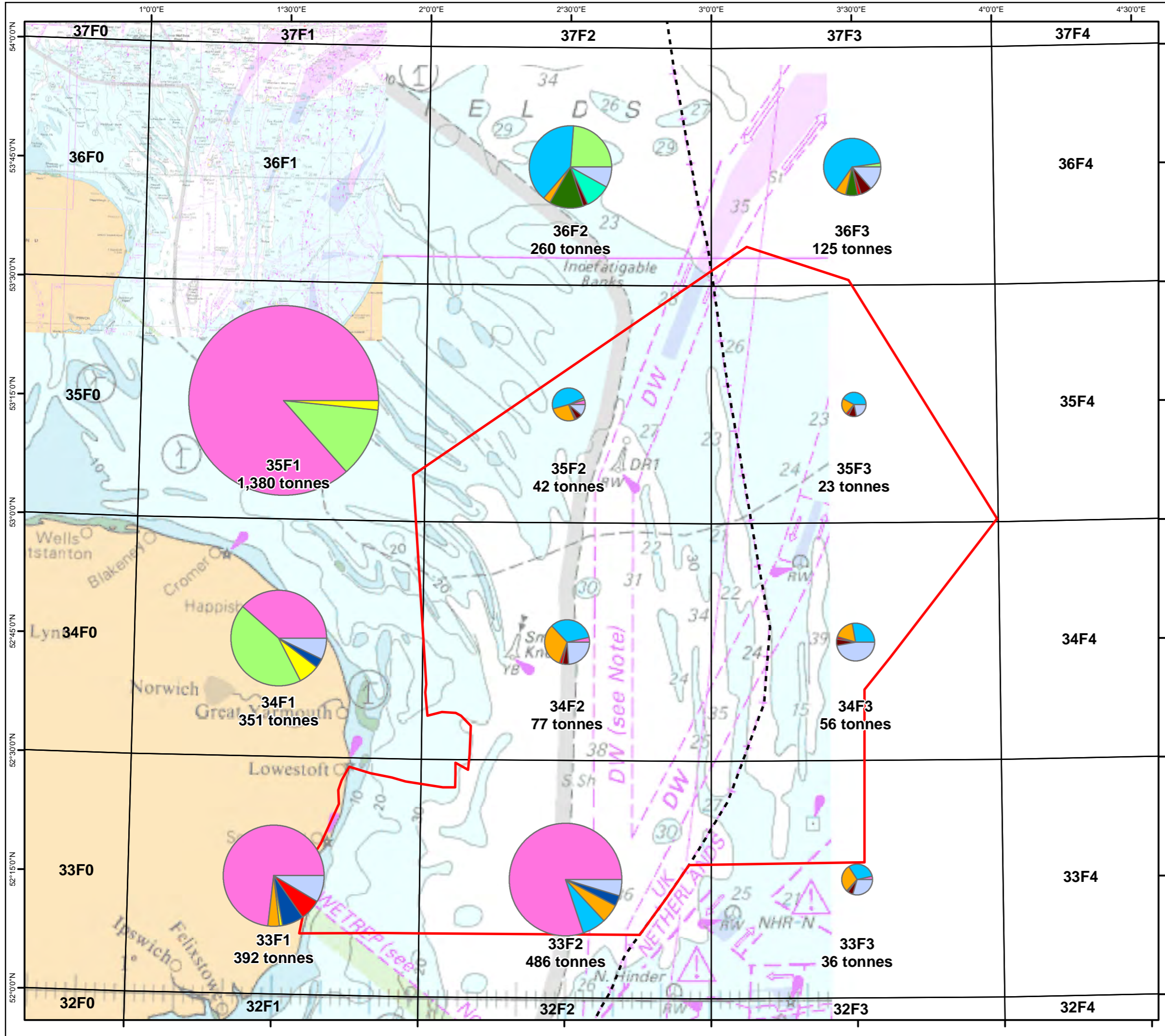
<sup>1</sup> MMO (2021)



Horizontal Scale: 1:850,000		A3 Chart
Geodetic Parameters: WGS 1984 UTM Zone 30N		
Produced: RK	Reviewed: JK	Approved: RK
Date: Mar 2024	REV: 01	Desc:
REF: Intertek_EL_02-041		

Drawing Title  
**Figure 24-3 UK Landings Weight by Gear Type Between 2016 And 2020 (MMO)**

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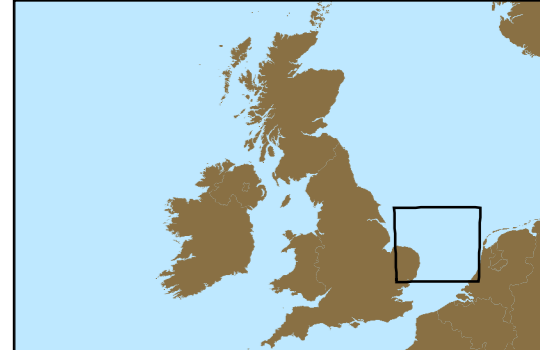
**Legend**

- Study Area
- ICES Rectangles
- UK EEZ
- 6 NM Limit
- 12 NM Limit

**Species<sup>1</sup>**

- Whelks
- Edible\_Crabs
- Plaice
- Sole
- Lobsters
- Herring
- Nephrops
- Thornback\_Ray
- Turbot
- Scallops
- Other

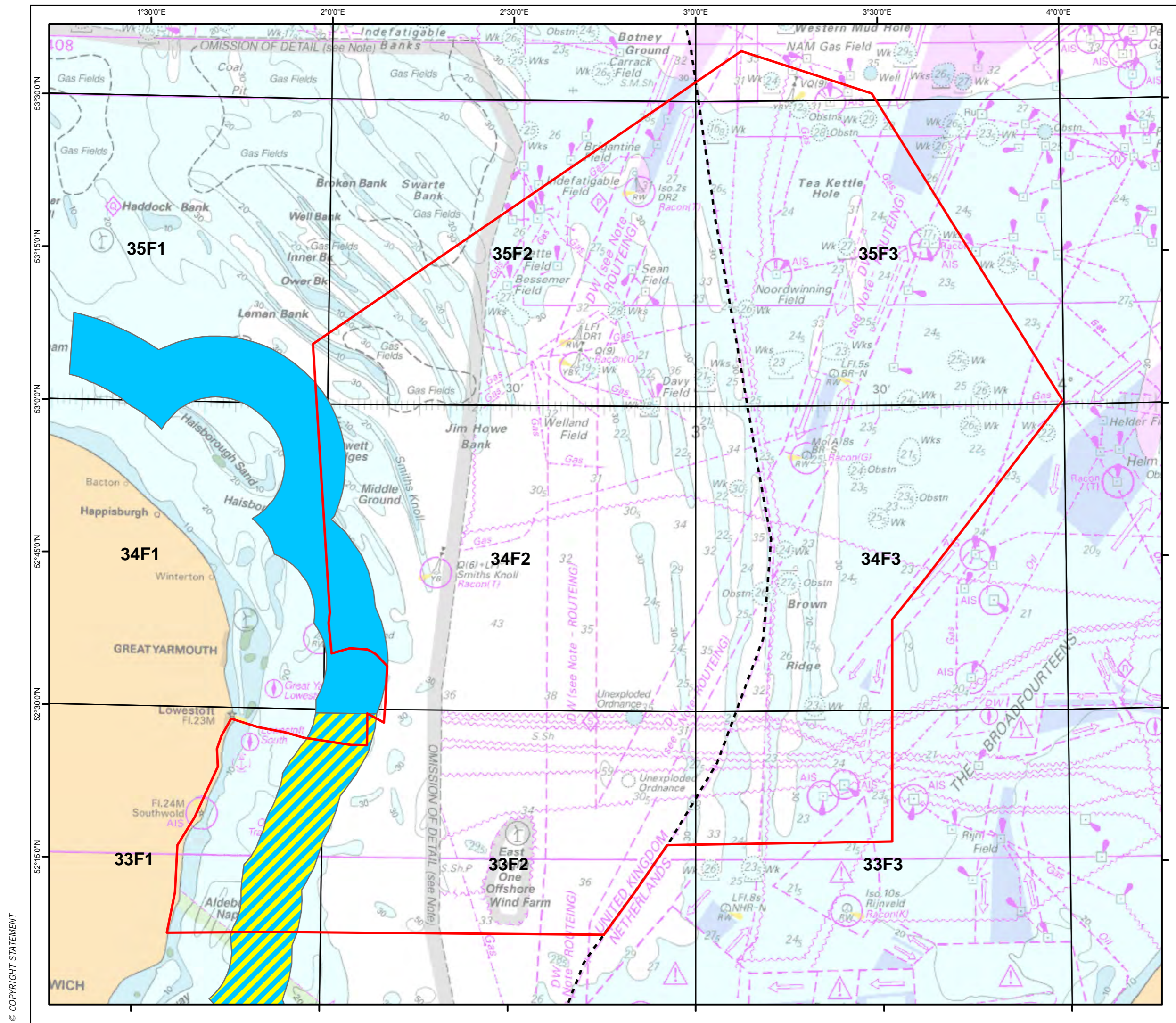
<sup>1</sup> MMO (2021)



Horizontal Scale: 1:850,000  
 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 Kilometres  
 A3 Chart  
 Geodetic Parameters: WGS 1984 UTM Zone 30N  
 Produced: RK | Reviewed: JK | Approved: RK  
 Date: Mar 2024 | REV: 01 | Desc:  
 REF: Intertek\_EL\_02-042

**Commercial Fisheries**  
 Figure 24-4UK Landings Weight by Species Between 2016 And 2020 (MMO)

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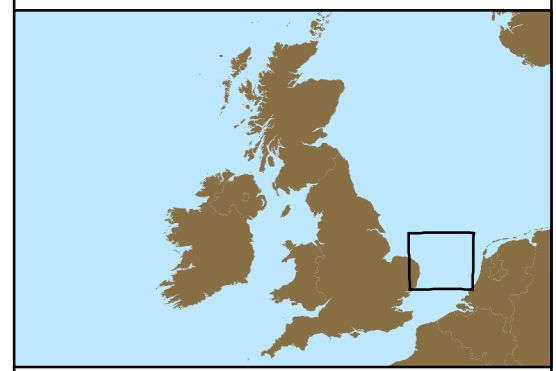


**Legend**

- Study Area
- ICES Rectangles
- UK EEZ
- 6 NM Limit
- 12 NM Limit

**Historical Fishing Rights**

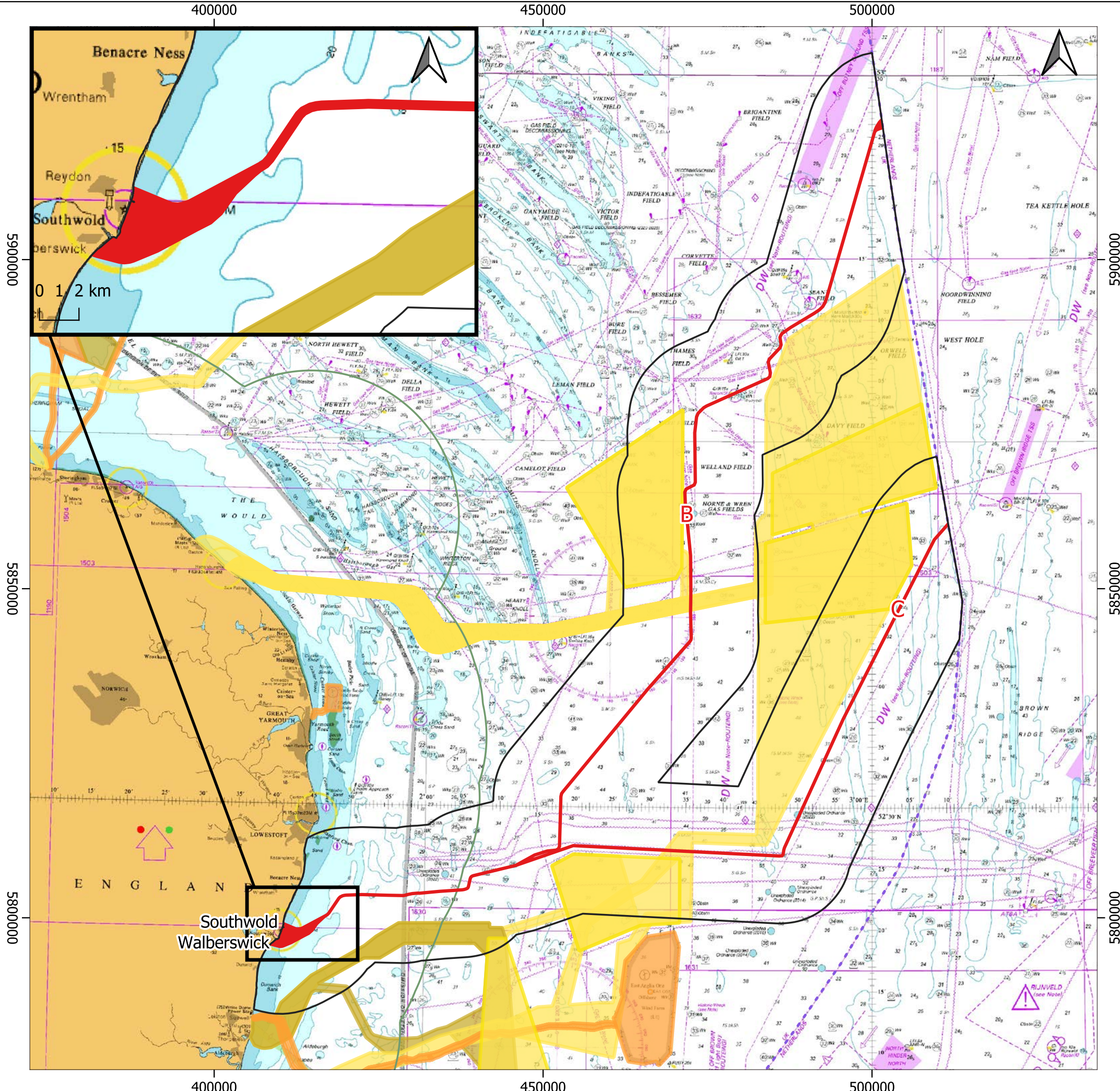
- Belgium - Demersal
- France - All Species, Belgium - Demersal



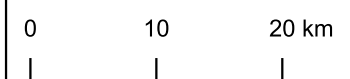
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Geodetic Parameters: WGS 1984 UTM Zone 30N		
Produced: RK	Reviewed: JK	Approved: RK
Date: Mar 2024	REV: 01	Desc:
REF: Intertek_EL_02-037		

Drawing Title  
**Figure 24-5 Historic Fishing Rights Within The Study Area**

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- Exclusive Economic Zone Limit (EEZ)
  - 12NM Limit
  - Offshore Scoping Boundary
  - Study Area
- Windfarm Status
- Active/In Operation
  - Consented
  - In Planning



Coordinate System  
WGS 84 / UTM zone 31N

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LionLink

Drawing Title

Figure 25-1 Offshore Windfarm Developments Within Proximity of The Study Area

Scale at A3  
1:600000

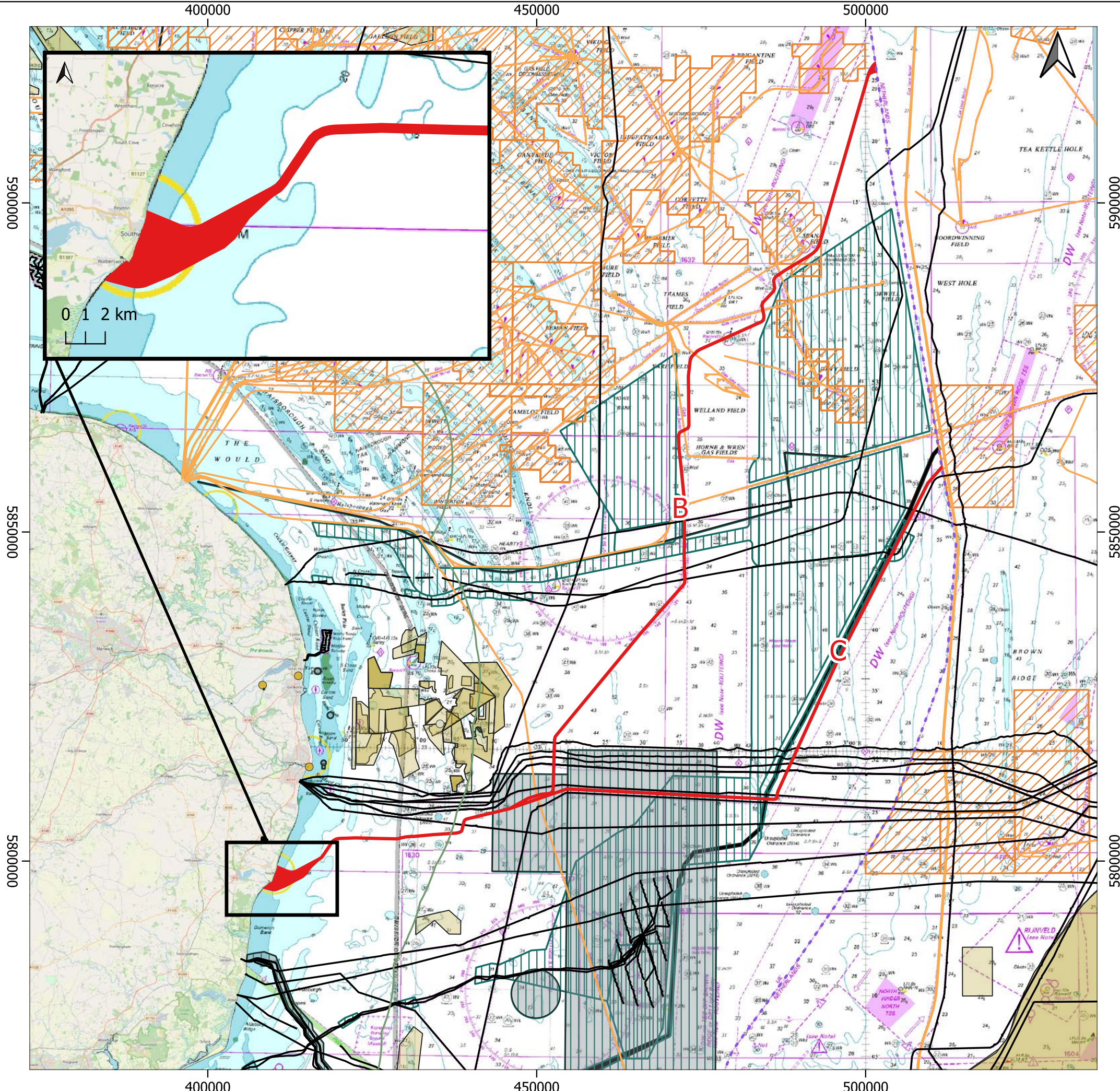
Role  
Other Marine Users

Suitability  
Scoping

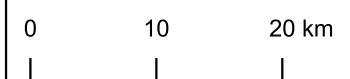
Project Number  
C01467

Drawing Number  
C01467-INFR-001-E

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- Offshore Scoping Boundary
- - - Exclusive Economic Zone Limit (EEZ)
- 12NM Limit
- Cables
- Pipelines
- Oil & Gas Active Licences
- Dredge Spoil Dumping
- Dredging Locations
- Aggregates
- Disposal Sites



Coordinate System  
WGS 84 / UTM zone 31N

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Rev	Date	By	Chkd	Appd	Authd



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Project Name  
LionLink

Drawing Title  
Figure 25-2 Interconnector and Telecommunication Cables, Aggregate Extraction Sites and Disposal Sites Within Proximity of The Study Area.

Scale at A3  
1:600000

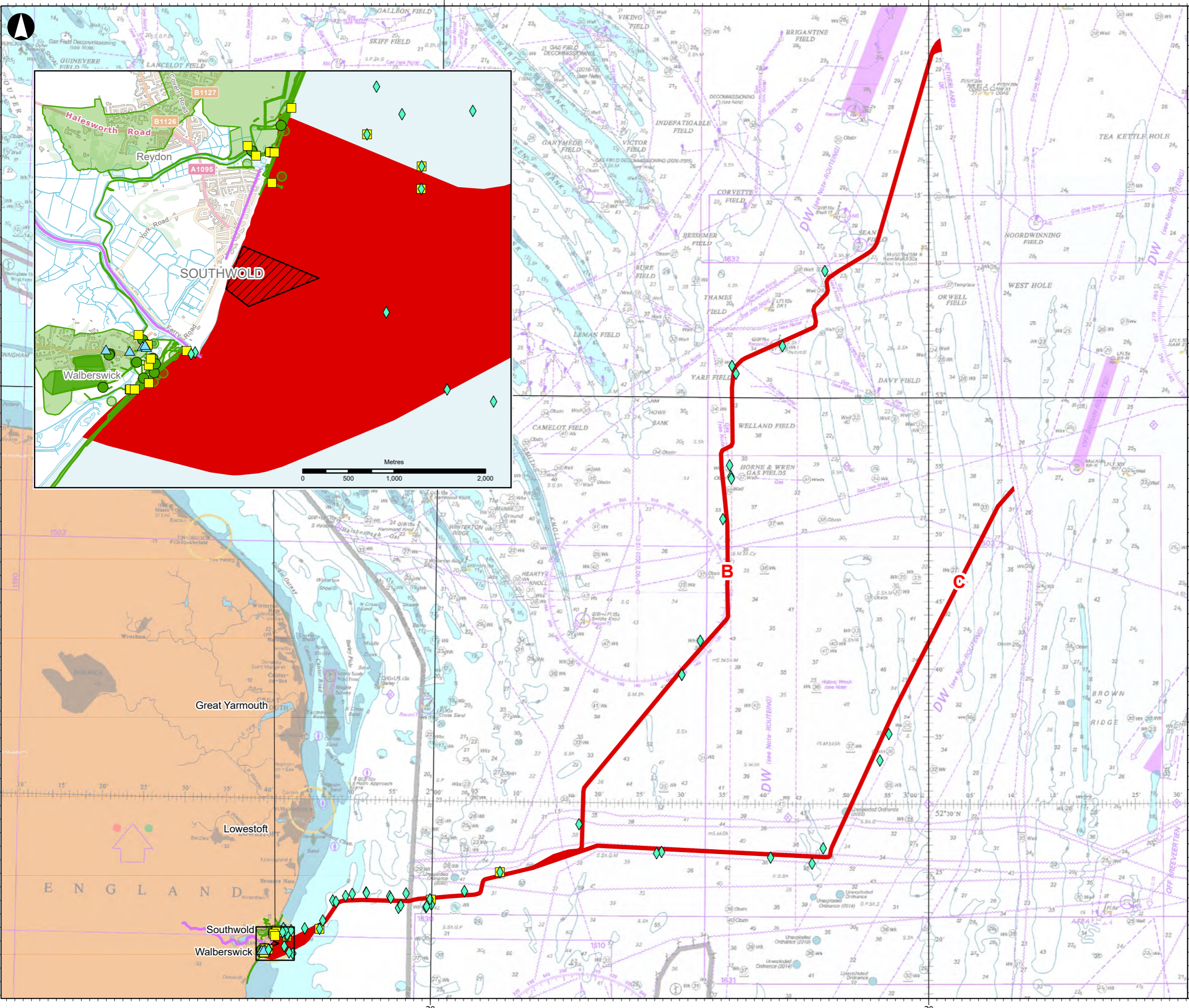
Role  
Other Marine Users

Suitability  
Scoping

Project Number  
C01467

Drawing Number  
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- █ Offshore Scoping Boundary
- ◆ UKHO sites
- ▲ Listed Buildings (AMA 1979)
- NMHR sites
- Suffolk HER sites
- NMHR and Suffolk HER sites
- Suffolk HER sites
- Suffolk HER sites
- No search data has been sourced for this area as there will be no cable installation here

Coordinate System: WGS 1984 UTM Zone 31N

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**wessex archaeology**

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www.wessexarch.co.uk

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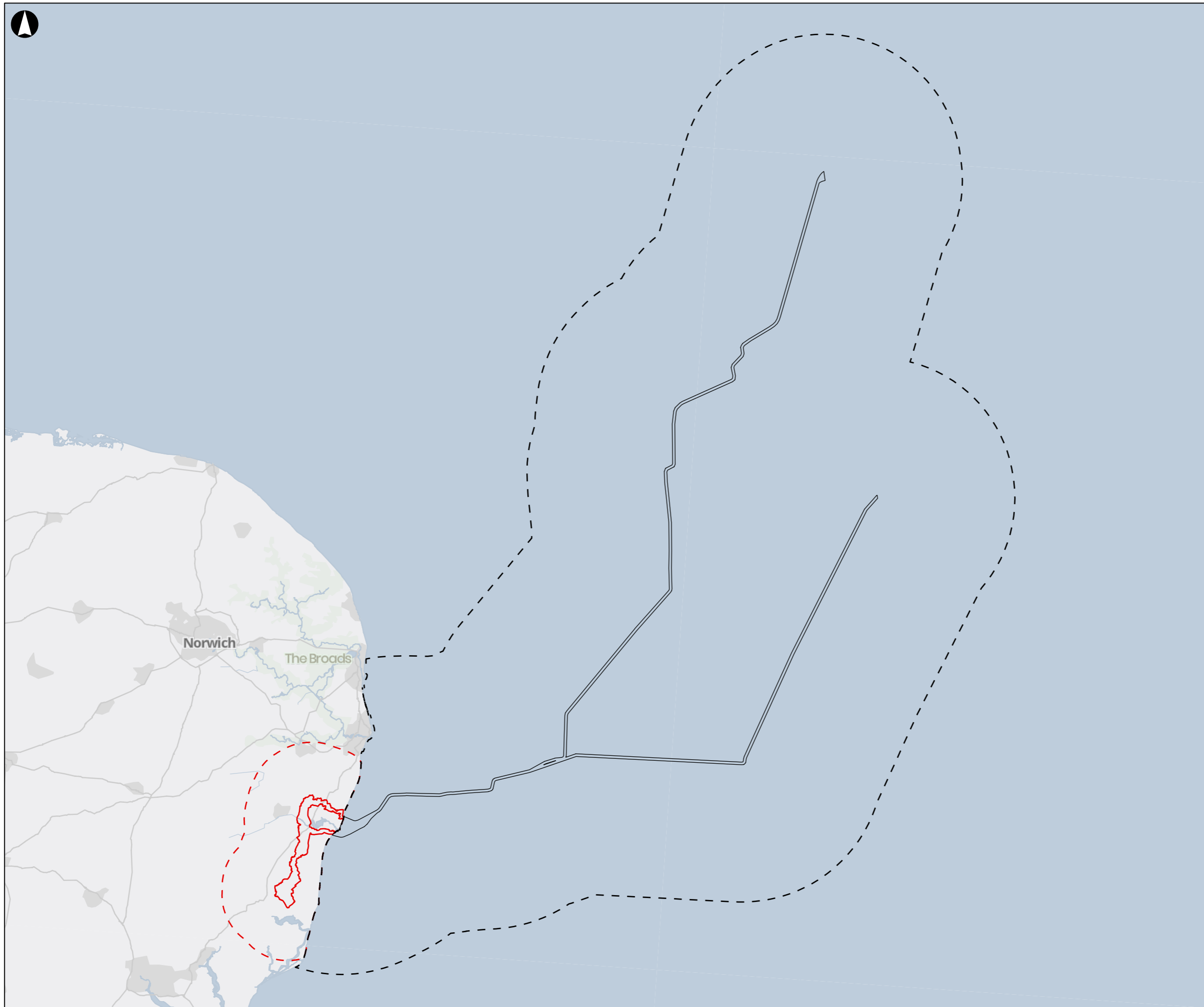
Drawing Title  
Figure 26-1 Location of Recorded Seabed and Intertidal Features Within, and in Proximity to, The Proposed Submarine Cables

Scale at A3  
**1:500,000**

Role  
**Marine Archaeology**

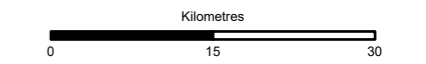
Suitability  
**Scoping**

Project Number <b>C01467</b>	Rev <b>01</b>
Drawing Number <b>01</b>	



- Proposed Scheme Scoping Boundary (Onshore)
- Proposed Onshore Zone of Influence 10km Buffer
- Proposed Scheme Scoping Boundary (Offshore)
- Proposed Offshore Zone of Influence 26km Buffer

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**ARUP**

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 Birmingham  
 B3 3AY  
 United Kingdom  
 www.arup.com

Project Name

**LIONLINK**

Client

National Grid LionLink Limited  
 (NGLLL)

Drawing Title

Figure 29-1 Cumulative Development Boundaries

Scale at A3

1:700,000

Role

Chapter 29. Combined Effects of the Project

Suitability

EIA Scoping Report

Project Number  
 287334-00

Rev  
 P01

Drawing Number

LL-ARP-FIG-DEV-0042-P01

