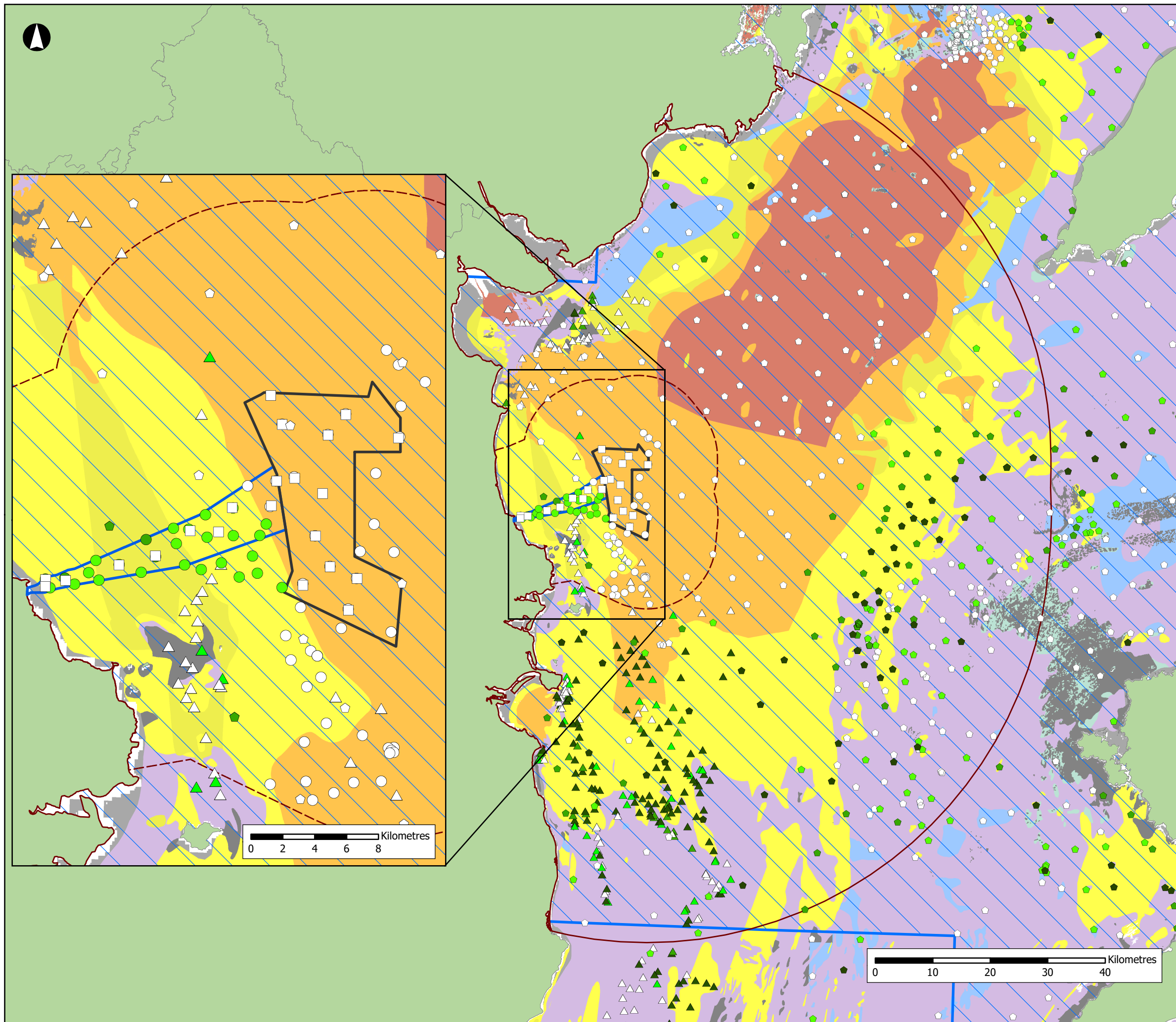


Volume 7A - Figures

Chapter 13

Fish and Shellfish Ecology



Array Area
 Offshore Export Cable Corridor
 Underwater Noise ZoI - 70km
 Sedimentary ZoI - 12km

Data Sources

- △ INFOMAR (2022)
- Natural Power (2022, 2023)
- Aquafact (2025)
- ◇ BGS

Sandeel Habitat Suitability (Latto et al., 2013)

- Prime, Preferred
- Sub-Prime, Preferred
- Suitable, Marginal
- Unsuitable

Spawning Grounds (Ellis et al., 2012)

- Sandeel, Low Intensity

Seabed Substrate (EUSeaMap2021)

- Fine mud
- Muddy sand
- Sandy mud
- Sand
- Sediment
- Mixed sediment
- Coarse substrate
- Rock or other hard substrata
- Mussel beds
- Seabed

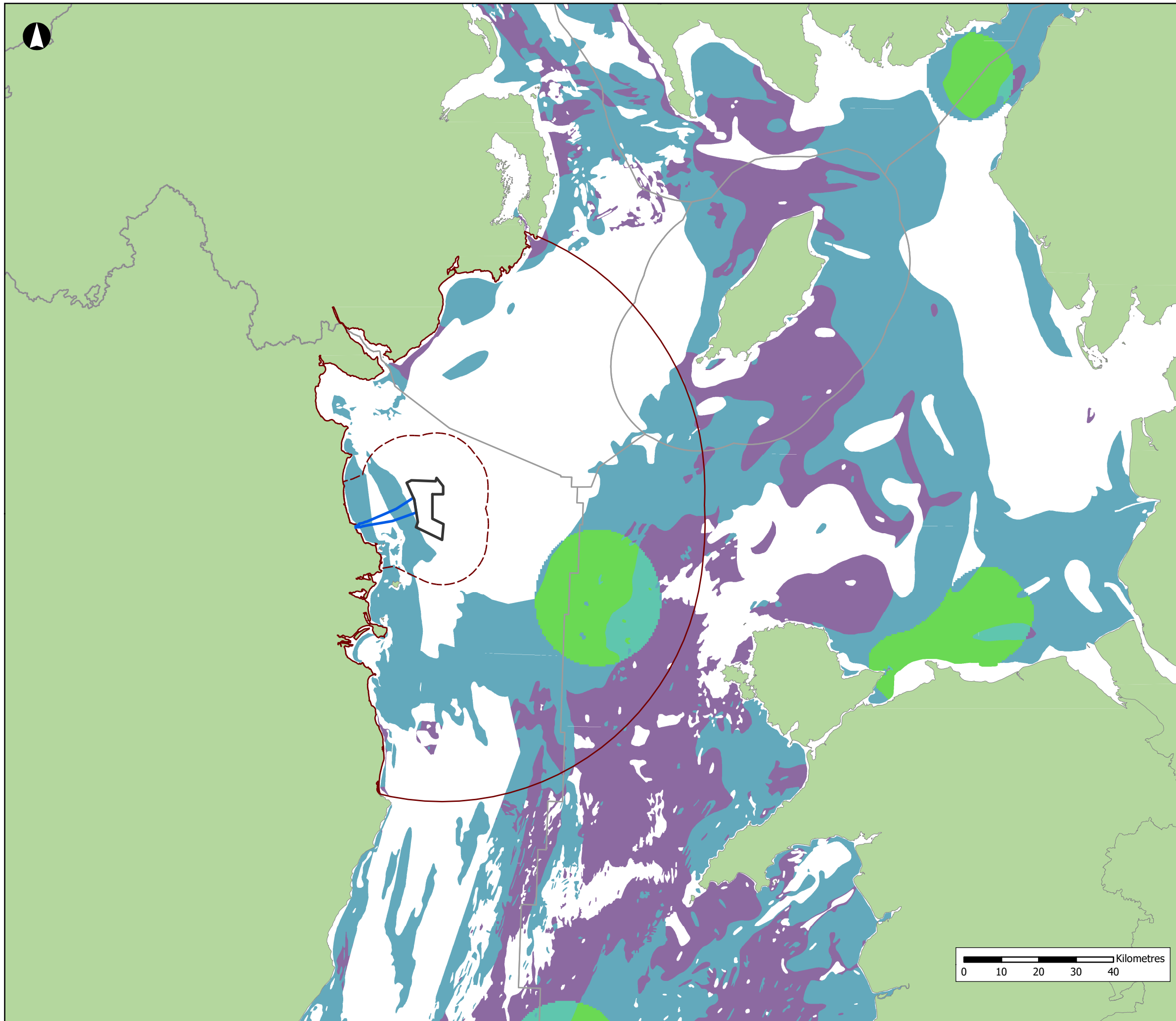
NISA
 North Irish Sea Array

ARUP **GoBe**

Project
**North Irish Sea Array
 Offshore Wind Farm**

Figure Title
**Seabed Substrate and Sandeel
 Habitat Suitability. Based on
 EUSeaMap Broadscale Habitats,
 Sediment Data sourced from
 INFOMAR and BGS, and
 Site-Specific Grab Sampling**

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: April 2026	Figure No:
Scale: 1:650,000 @A3	A13.1
Status: Issue	



- Array Area
- Offshore Export Cable Corridor
- Underwater Noise ZoI - 70km
- Sedimentary ZoI - 12km
- EEZ Boundary

Potential Supporting Habitat Confidence

- 0.013 - 0.02 (Higher)
- 0.02 - 0.03
- 0.03 - 0.04
- 0.04 - 0.05
- 0.05 - 0.075
- 0.075 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5
- 0.5 - 0.75 (Lower)

NISA

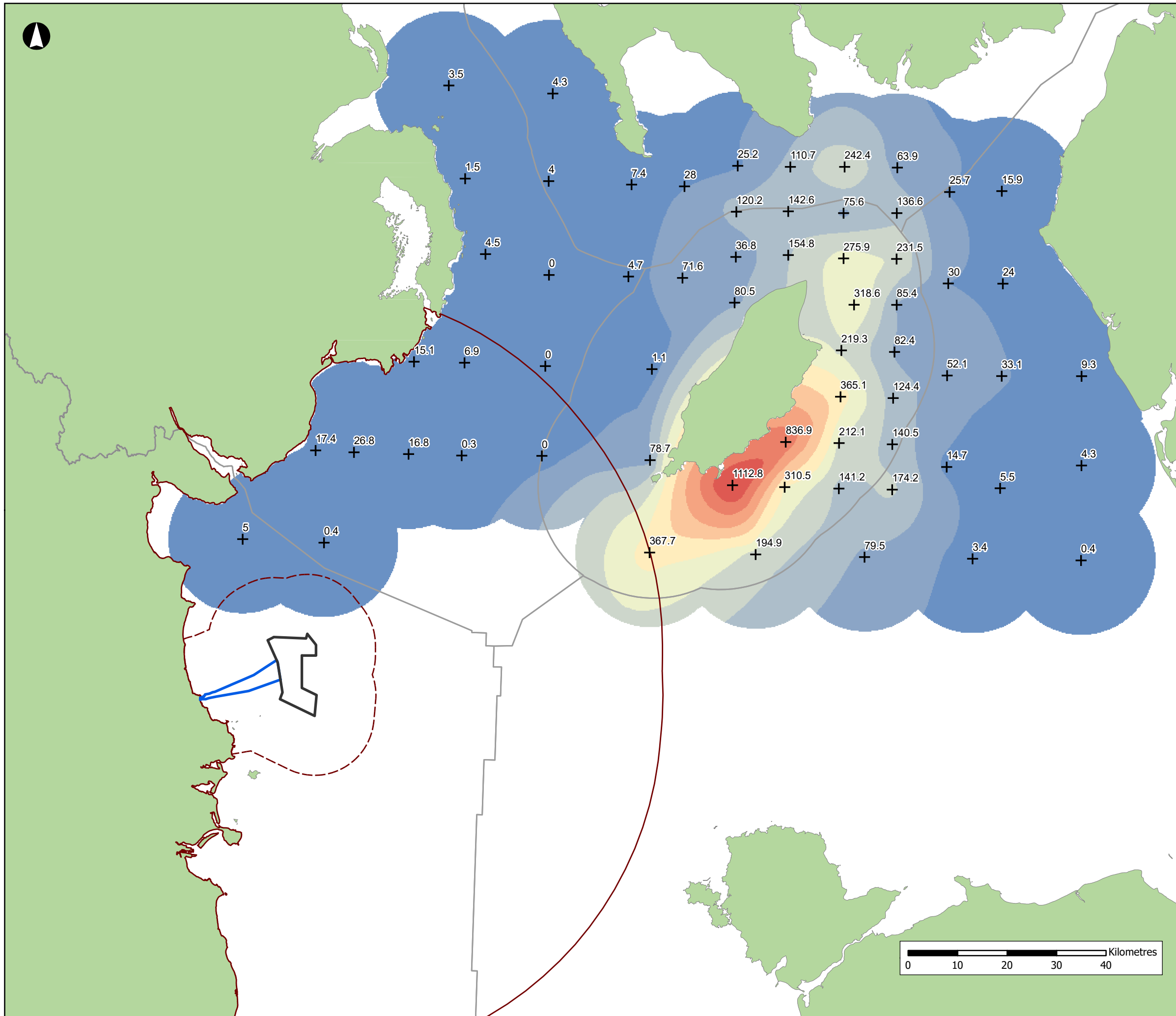
North Irish Sea Array

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North Irish Sea Array
Offshore Wind Farm

Figure Title
Sandeel Spawning Confidence
Heat Map

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: April 2026	Figure No:
Scale: 1:1,000,000@A3	A13.2
Status: Issue	



Array Area
 Offshore Export Cable Corridor
 Underwater Noise ZoI - 70km
 Sedimentary ZoI - 12km
 EEZ Boundary
+ Herring Larvae Sampling Grid

Northern Irish Northeastern Larvae Survey - Larval Abundance per m²

- 0 - 30
- 30.1 - 90
- 90.1 - 160
- 160.1 - 235
- 235.1 - 320
- 320.1 - 440
- 440.1 - 570
- 570.1 - 720
- 720.1 - 870
- 870.1 - 1,115

NISA

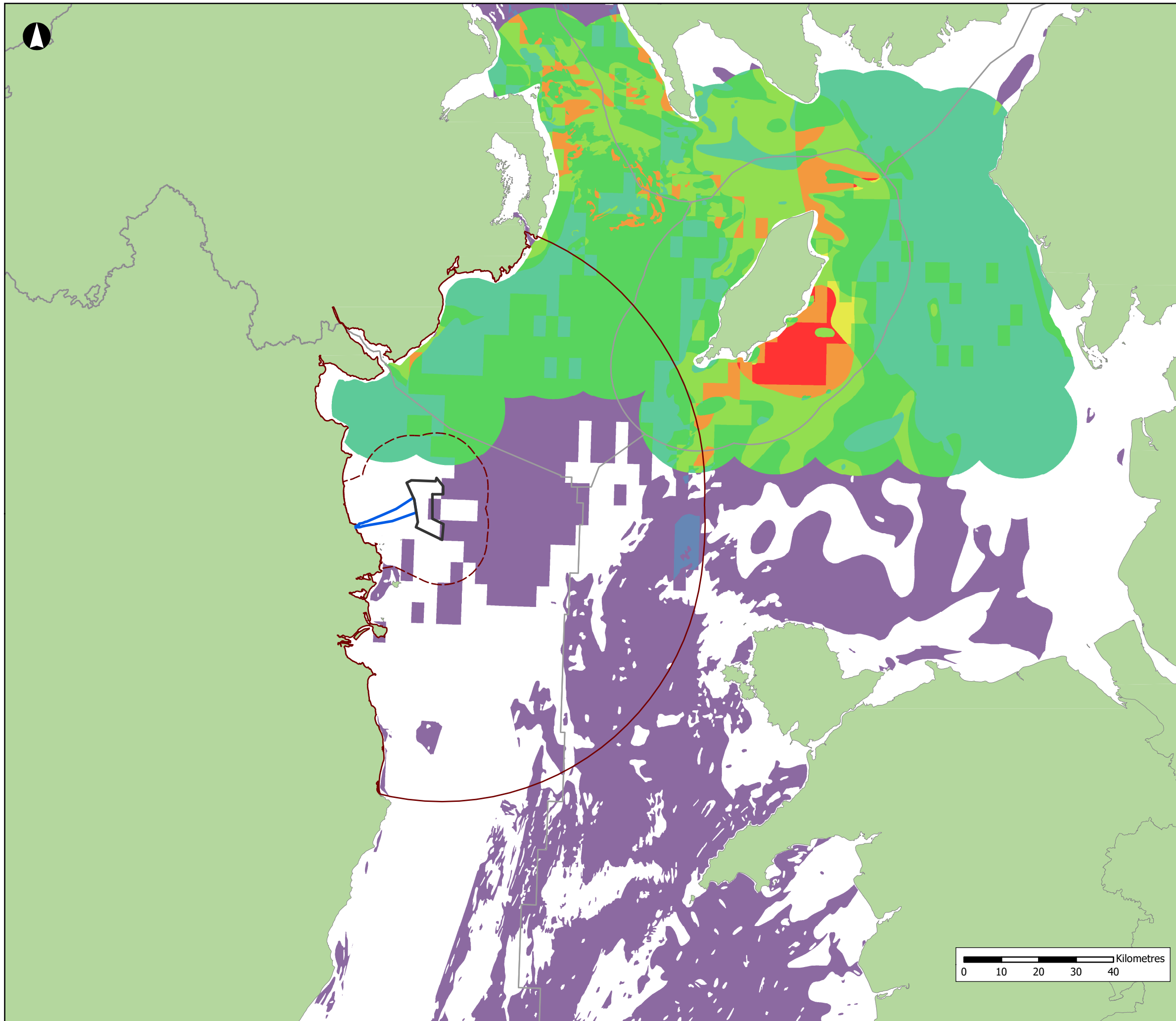
North Irish Sea Array








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 North Irish Sea Array
 Offshore Wind Farm











Figure Title
 Heatmap of NINEL Herring Larval Densities (2016-2023)

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:750,000 @A3	A13.3
Status: Issue	



-  Array Area
-  Offshore Export Cable Corridor
-  Underwater Noise ZoI - 70km
-  Sedimentary ZoI - 12km
-  EEZ Boundary

Potential Supporting Habitat Confidence

-  0.021 - 0.03 (Higher)
-  0.03 - 0.04
-  0.04 - 0.05
-  0.05 - 0.075
-  0.075 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.4
-  0.4 - 0.5
-  0.5 - 0.75 (Lower)

NISA

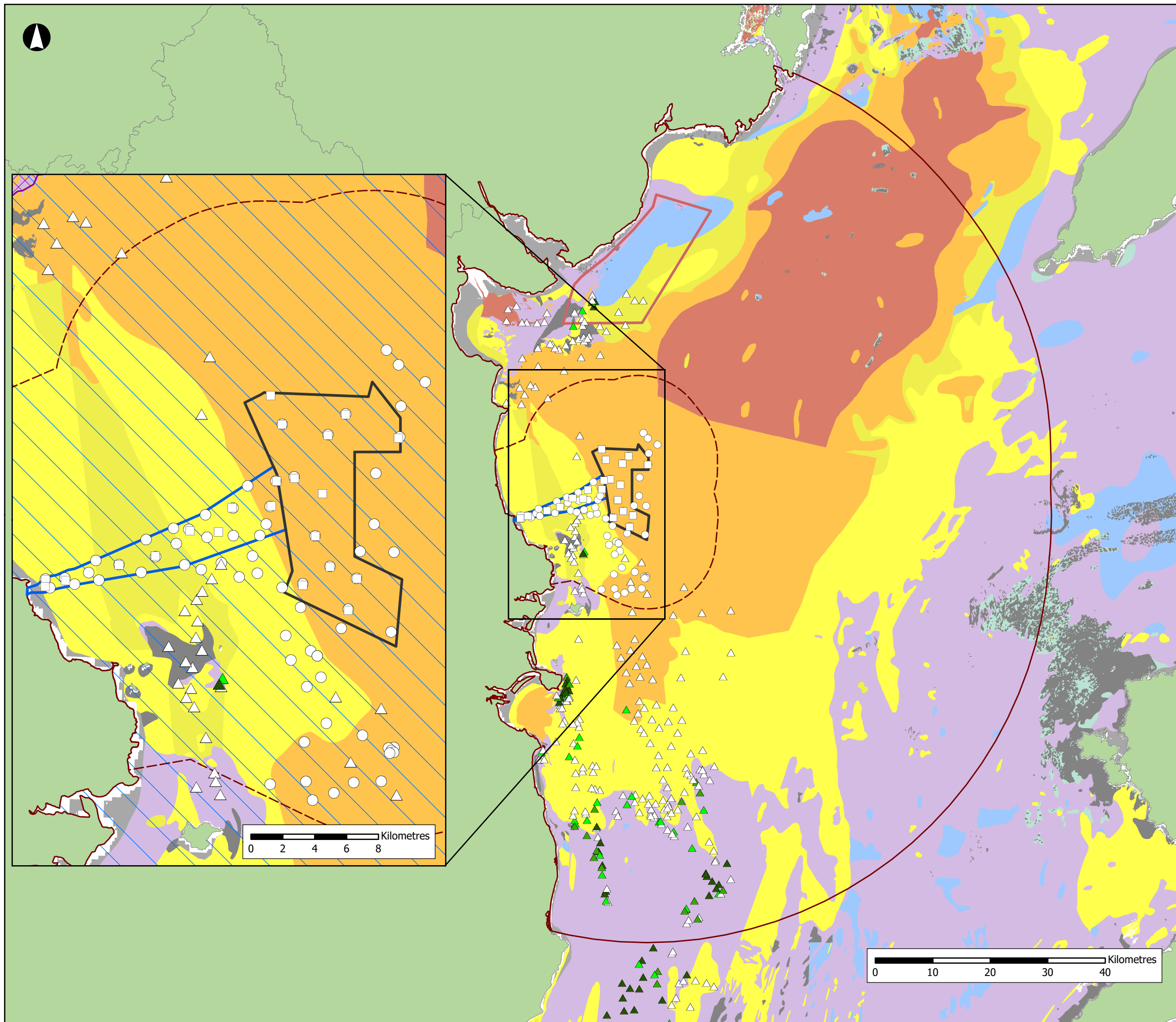
North Irish Sea Array

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North Irish Sea Array
Offshore Wind Farm

Figure Title
Herring Spawning Confidence
Heat Map

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:1,000,000@A3	A13.4
Status: Issue	



- Array Area
- Offshore Export Cable Corridor
- Underwater Noise ZoI - 70km
- Sedimentary ZoI - 12km
- Traditional Mourne Herring Spawning Area (Dickey-Collas et al., 2001)

Data Sources

- △ INFOMAR (2022)
- Natural Power (2022, 2023)
- Aquafact (2025)

Herring Habitat Suitability (Reach et al., 2013)

- Prime, Preferred
- Sub-Prime, Preferred
- Suitable, Marginal
- Unsuitable

Seabed Substrate (EUSeaMap2021)

- Fine mud
- Muddy sand
- Sandy mud
- Sand
- Sediment
- Mixed sediment
- Coarse substrate
- Rock or other hard substrata
- Mussel beds
- Seabed

NISA

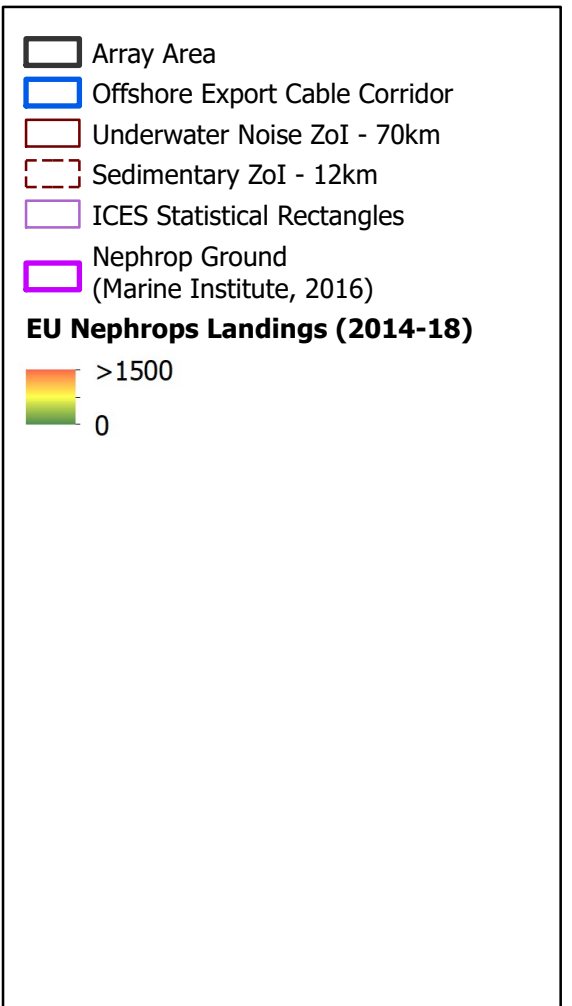
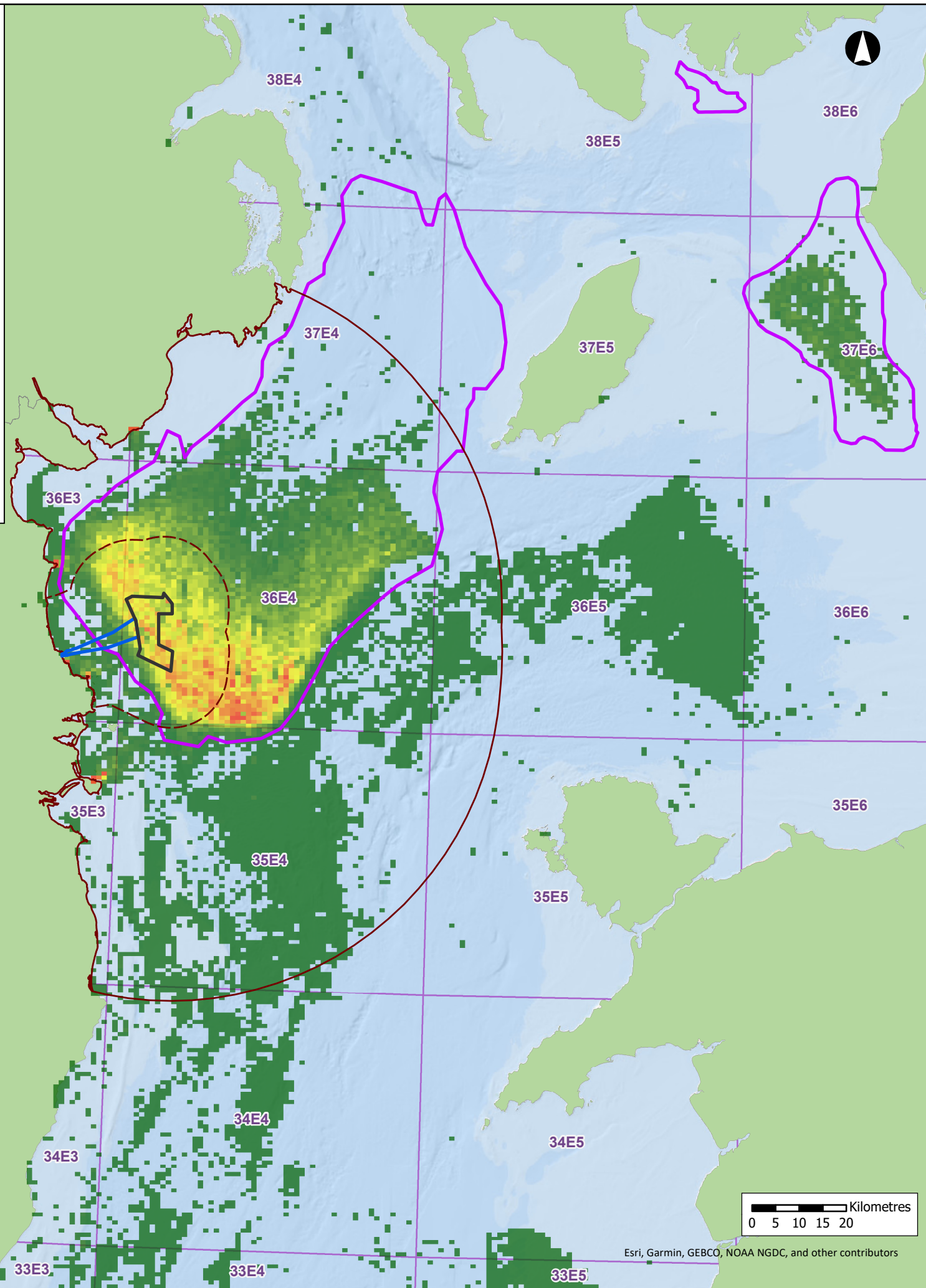
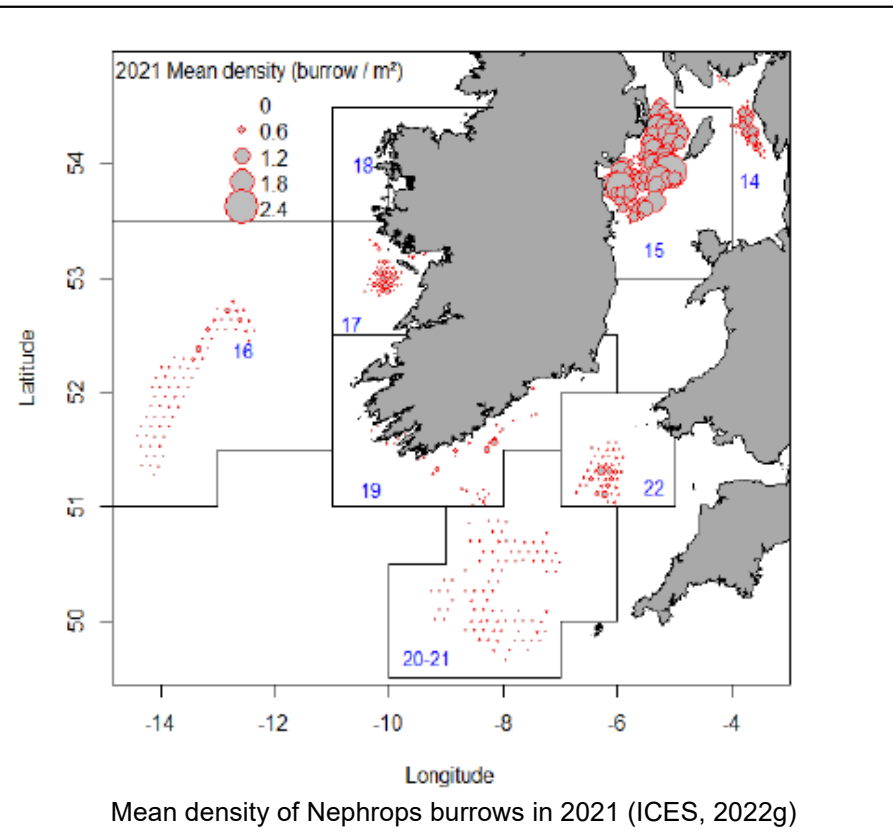
North Irish Sea Array

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North Irish Sea Array
Offshore Wind Farm

Figure Title
Seabed Substrate and Herring
Habitat Suitability based on
EUSeaMap Broadscale Habitats
and Sediment Data sourced
from INFOMAR and Site Specific
Grab Sampling

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:650,000 @A3	A13.5
Status: Issue	



NISA

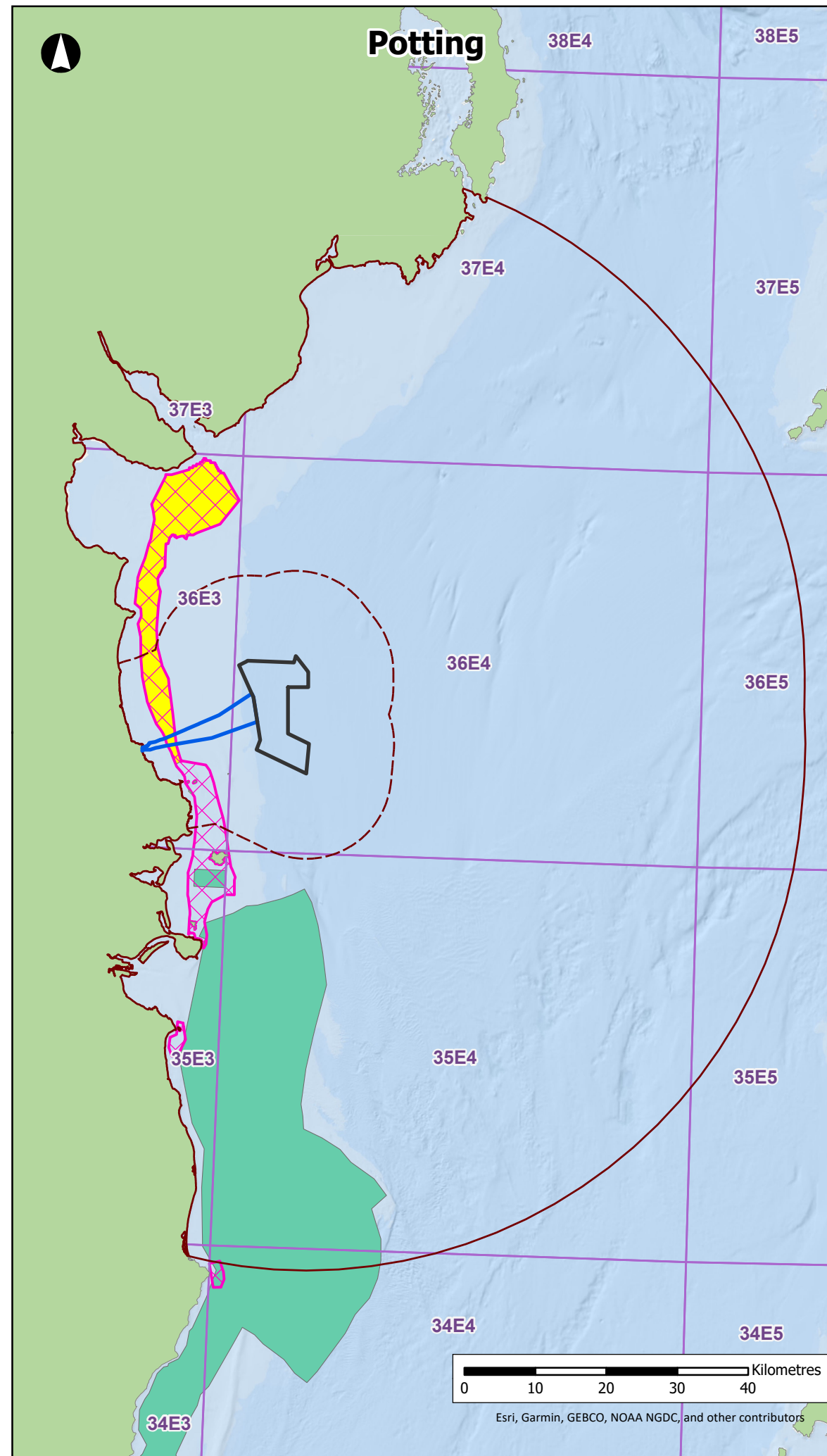
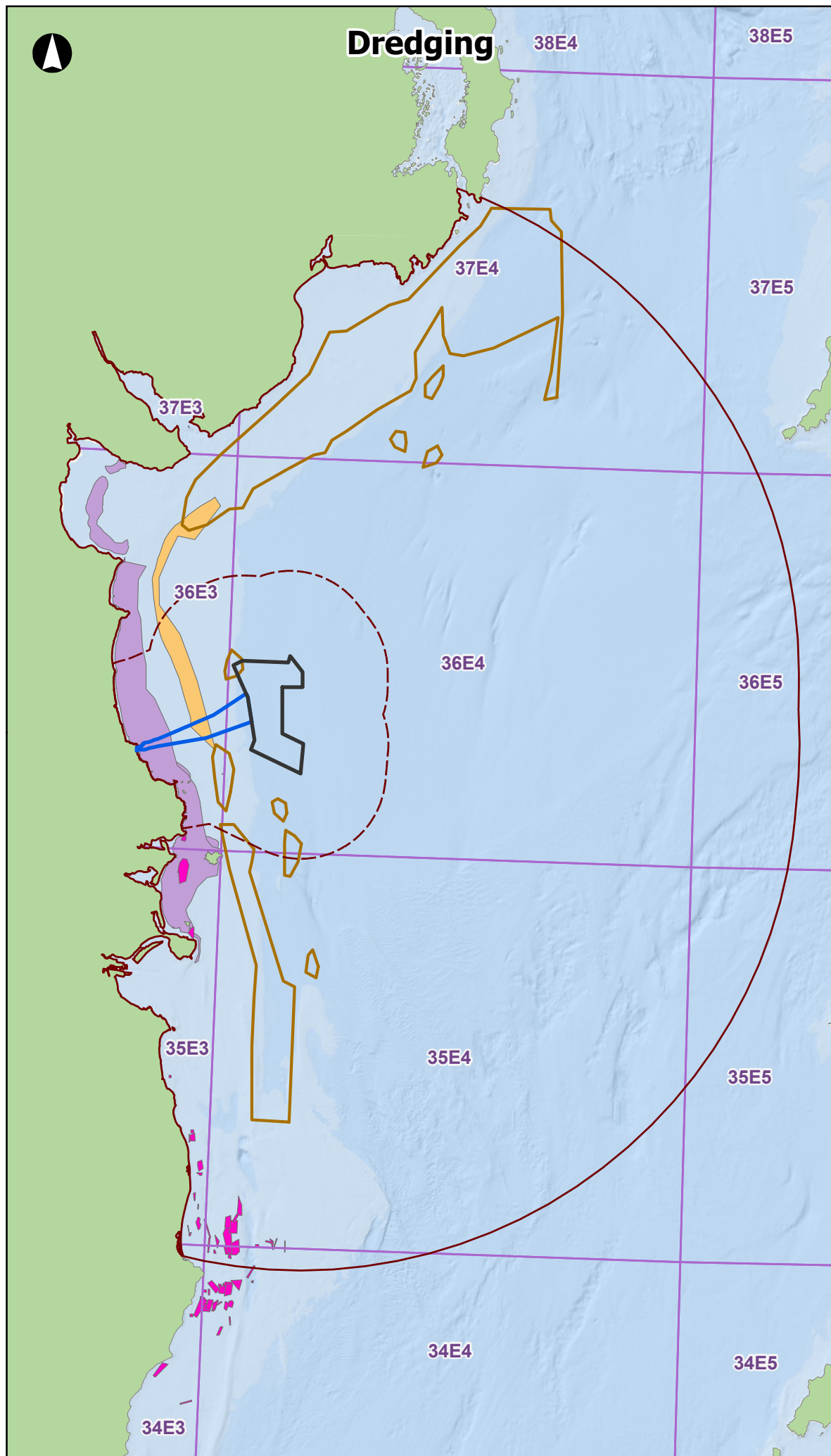
North Irish Sea Array

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**North Irish Sea Array
 Offshore Wind Farm**

Figure Title
**Nephrops Grounds and
 Nephrops Fishing Grounds in
 the North Irish Sea**

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:1,000,000 @A3	A13.6
Status: Issue	



Array Area
 Offshore Export Cable Corridor
 Sedimentary ZoI - 12km
 Underwater Noise ZoI - 70km
 ICES Statistical Rectangles
 Historical King Scallop Fishing Grounds (ICES, 2020)

Inshore Dredge Fishing (Marine Institute, 2016; The Marine Institute and Bord Iascaigh Mhara, 2024)

Target Species

- Razor Clam
- Scallop
- Seed Mussel

Inshore Pot Fishing (Marine Institute, 2016)

Target Species

- Lobster & Crab
- Shrimp
- Whelk

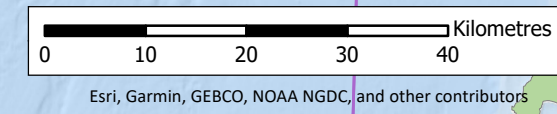
NISA
 North Irish Sea Array

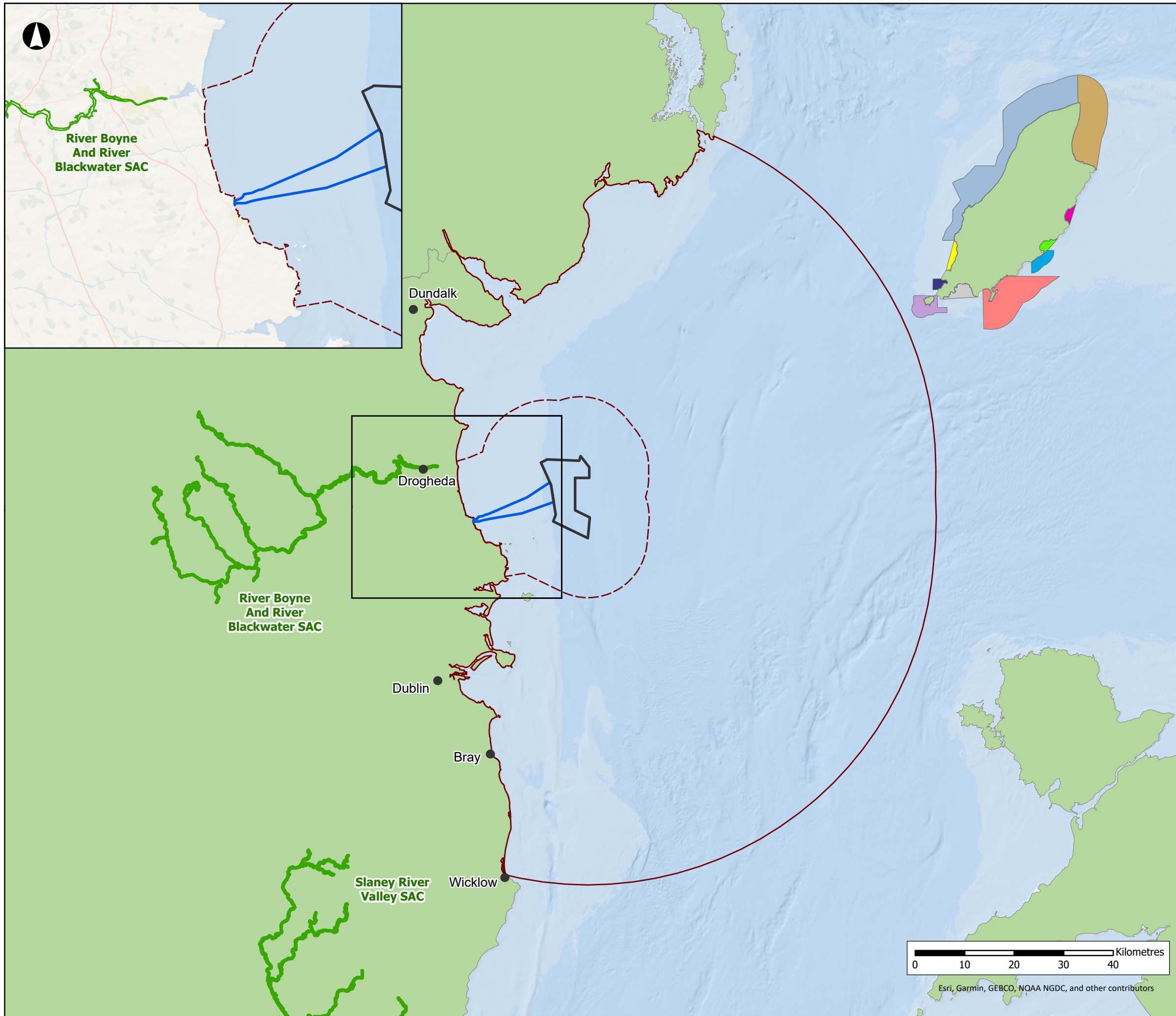
ARUP **GoBe**

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**North Irish Sea Array
 Offshore Wind Farm**

Figure Title
**Inshore Fishing Grounds
 Targeted by Dredging and
 Potting**

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:750,000 @A3	A13.7
Status: Issue	





- Array Area
- Offshore Export Cable Corridor
- Underwater Noise ZoI - 70km
- Sedimentary ZoI - 12km
- Special Areas of Conservation

Isle of Man Marine Nature Reserves (MNR)

- Baie Ny Carrickey
- Calf and Wart Bank
- Douglas Bay
- Langness
- Laxey Bay
- Little Ness
- Niarbyl Bay
- Port Erin Bay
- Ramsey Bay
- West Coast

NISA

North Irish Sea Array

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North Irish Sea Array Offshore Wind Farm

Figure Title
Designated Natura Sites for Migratory Fish and Isle of Man Marine Nature Reserves Relative to the Offshore Development Area

Job No: 281240	Datum: WGS84 Projection: UTM30N
Date: January 2026	Figure No:
Scale: 1:750,000 @A3	A13.8
Status: Issue	

0 10 20 30 40 Kilometres

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors