

Working together for a
cleaner energy future



Environmental Impact Assessment – Scoping Report

MarramWind Offshore Wind Farm

Appendix 1A: Figures (Chapter 5: Section 5.9 to Section 5.13)

MarramWind

A joint venture between ScottishPower and Shell UK

January 2023



Appendix 1A: Figures

(Chapter 5: Section 5.9 to Section 5.13)

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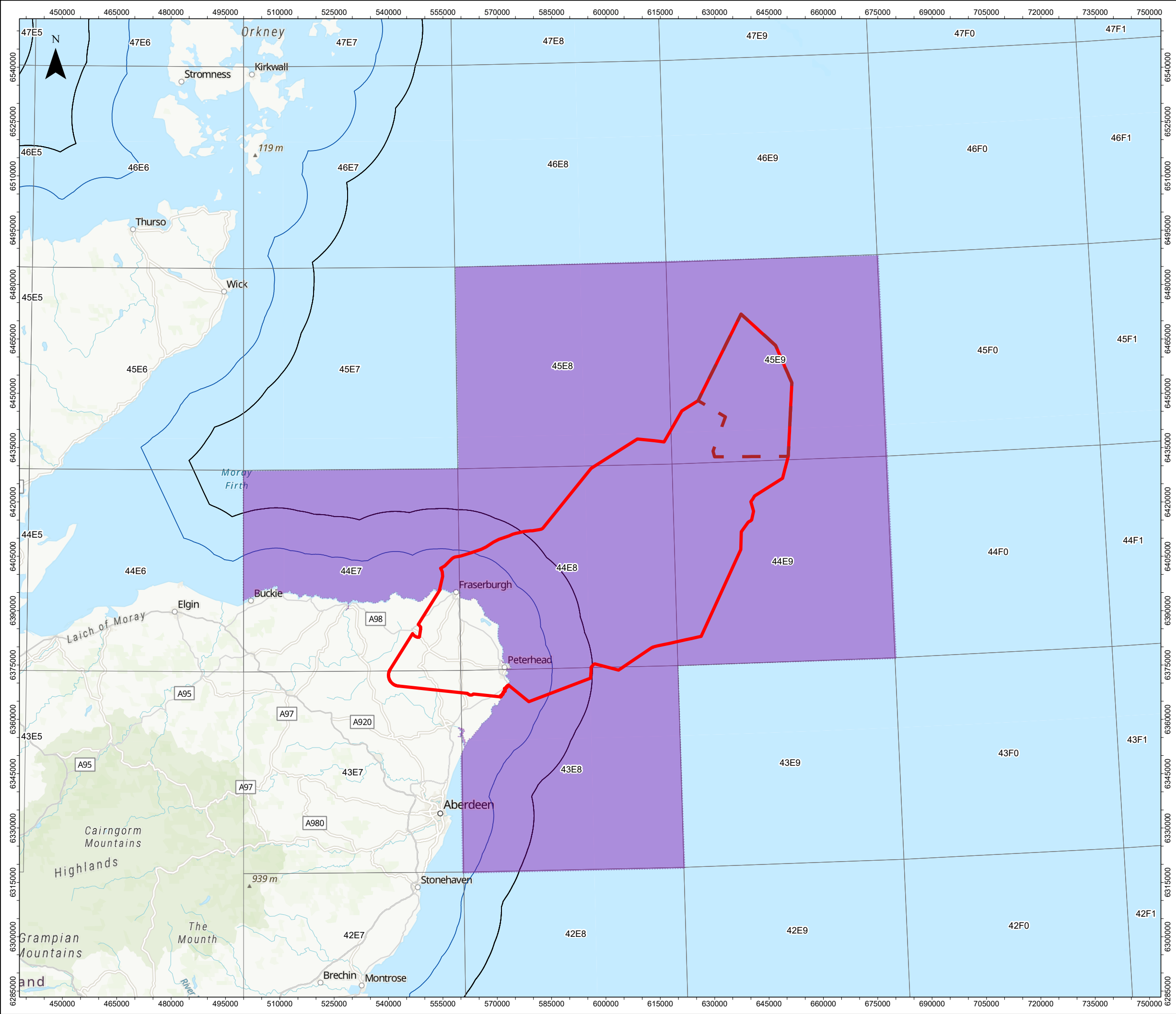
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- Scoping Boundary
- NE7 Option Agreement Area
- Commercial fisheries study area
- ICES Statistical Rectangles
- 12 NM limit
- 6 NM limit



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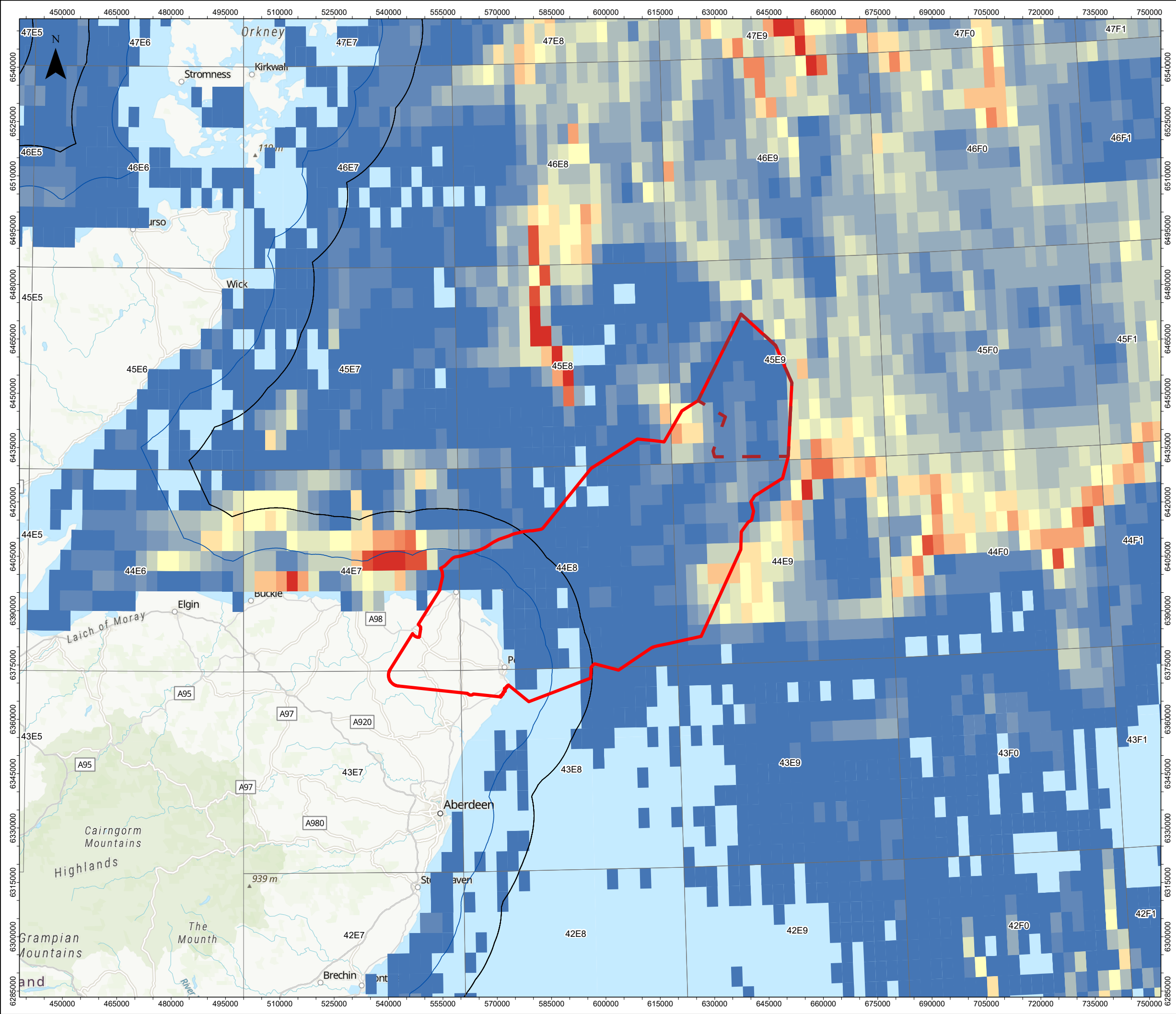
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DRAWING TITLE	Figure 5.9.1 Commercial fisheries study area				
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NOT TO BE USED FOR NAVIGATION



Scoping Boundary

NE7 Option Agreement Area

ICES Statistical Rectangles

12 NM limit

6 NM limit

Otter trawl SAR mean

0.0 - 0.6

0.7 - 1.3

1.4 - 1.9

2.0 - 2.6

2.7 - 3.2

3.3 - 3.9

4.0 - 4.5

4.6 - 5.1

5.2 - 5.8

5.9 - 6.4

6.5 - 7.1

7.2 - 7.7

7.8 - 8.4

8.5 - 9.0

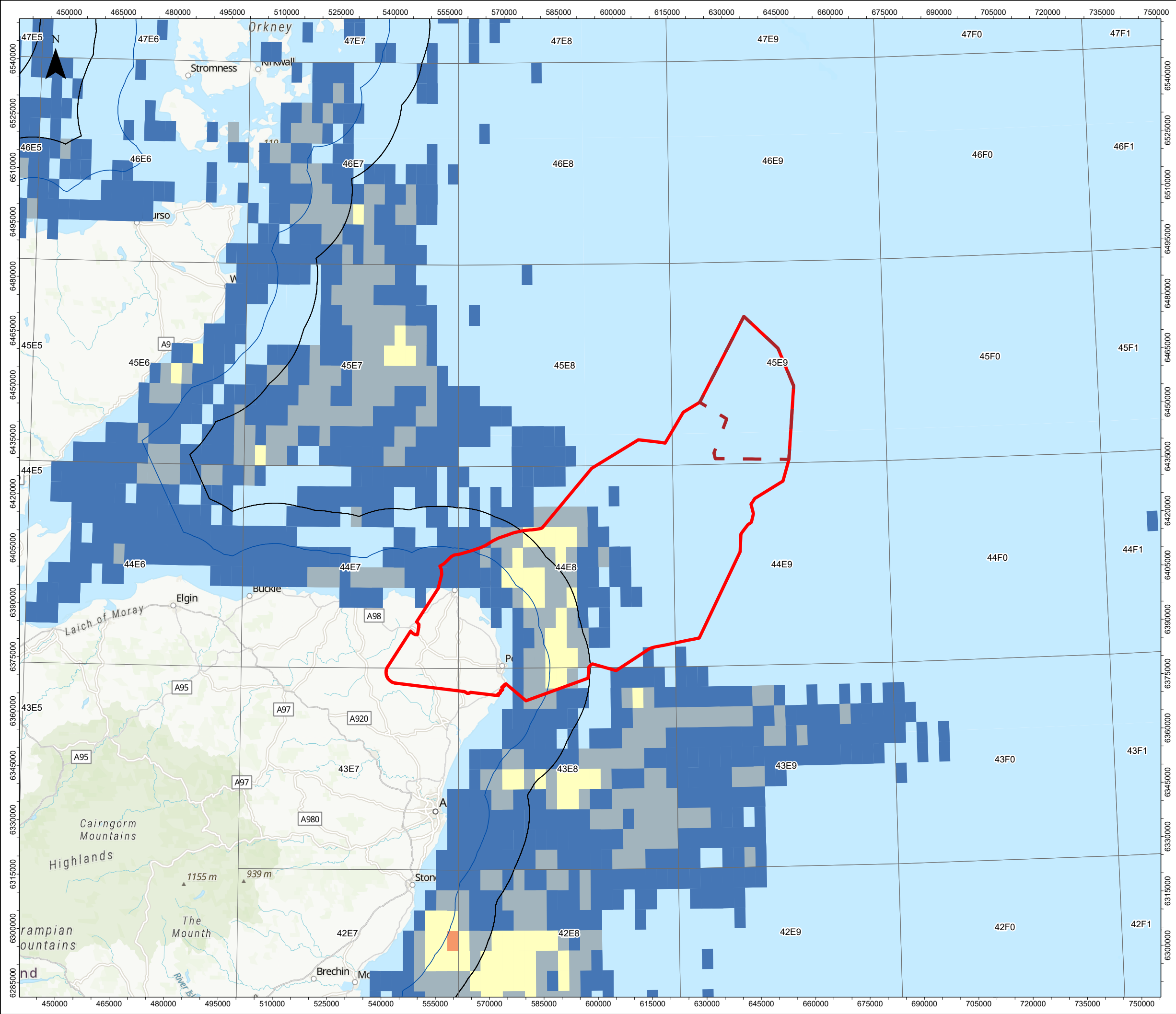
9.1 - 23.2

02550

Kilometres



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DRAWING TITLE Figure 5.9.2 Demersal otter trawl Surface Swept Area Ratio(SAR) 5-year annual average (2016-2020) EU including UK fishing vessels (Vessel length 12m and over)					
Data Source: ICES, 2021					
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NOT TO BE USED FOR NAVIGATION					
			 A joint venture between ScottishPower and Shell UK		



- Scoping Boundary
- NE7 Option Agreement Area
- ICES Statistical Rectangles
- 12 NM limit
- 6 NM limit

Dredge SAR mean

- 0.00 - 0.16
- 0.17 - 0.46
- 0.47 - 0.89
- 0.90 - 1.51
- 1.52 - 3.77



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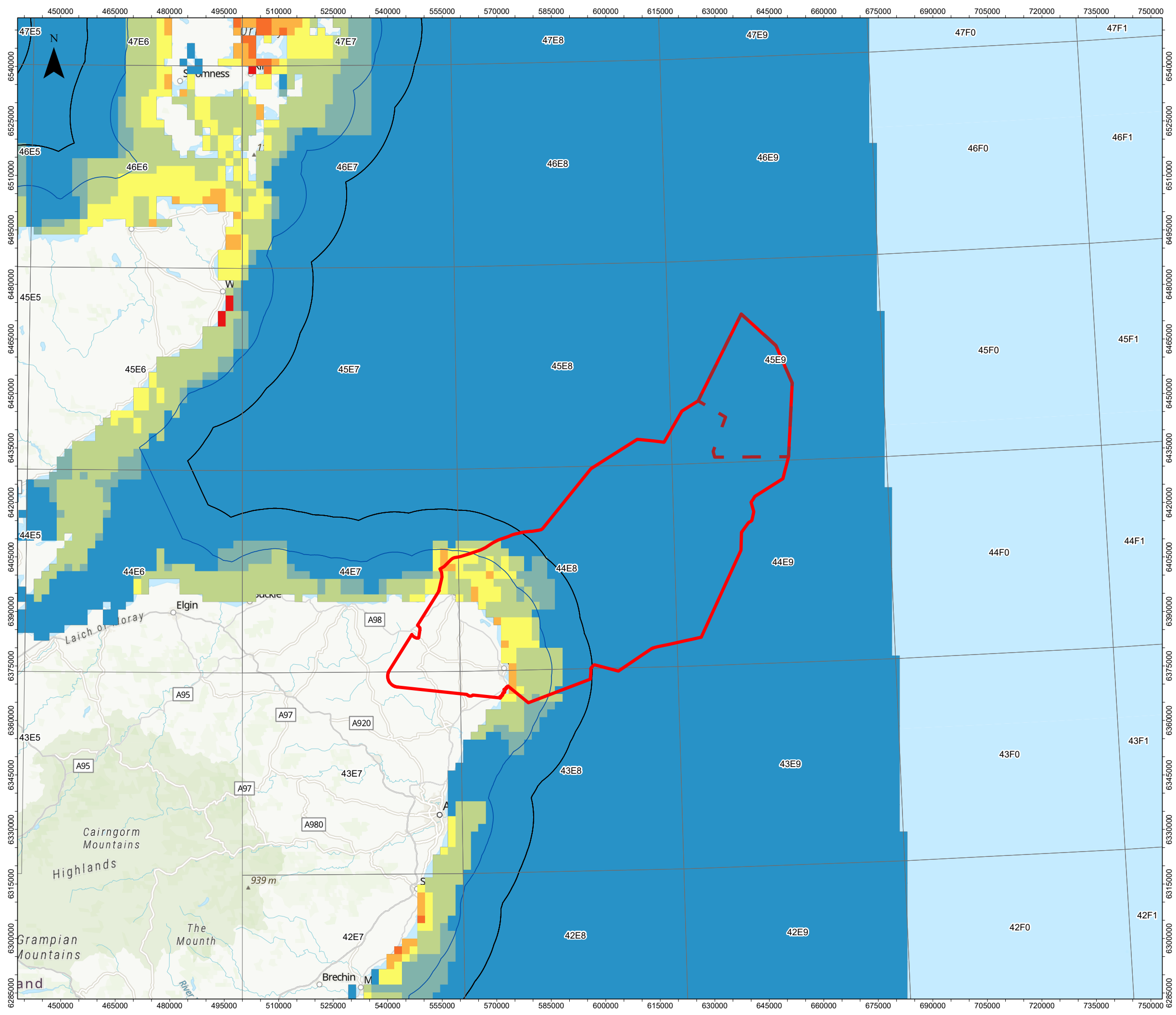
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PROJECT TITLE MarramWind

DRAWING TITLE
Figure 5.9.3 Dredge Surface Swept Area Ratio (SAR)
5-year annual average (2016-2020) EU
including UK fishing vessels (Vessel length 12m and over)

Data Source: ICES, 2021
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- Scoping Boundary
- NE7 Option Agreement Area
- ICES Statistical Rectangles
- 12 NM limit
- 6 NM limit

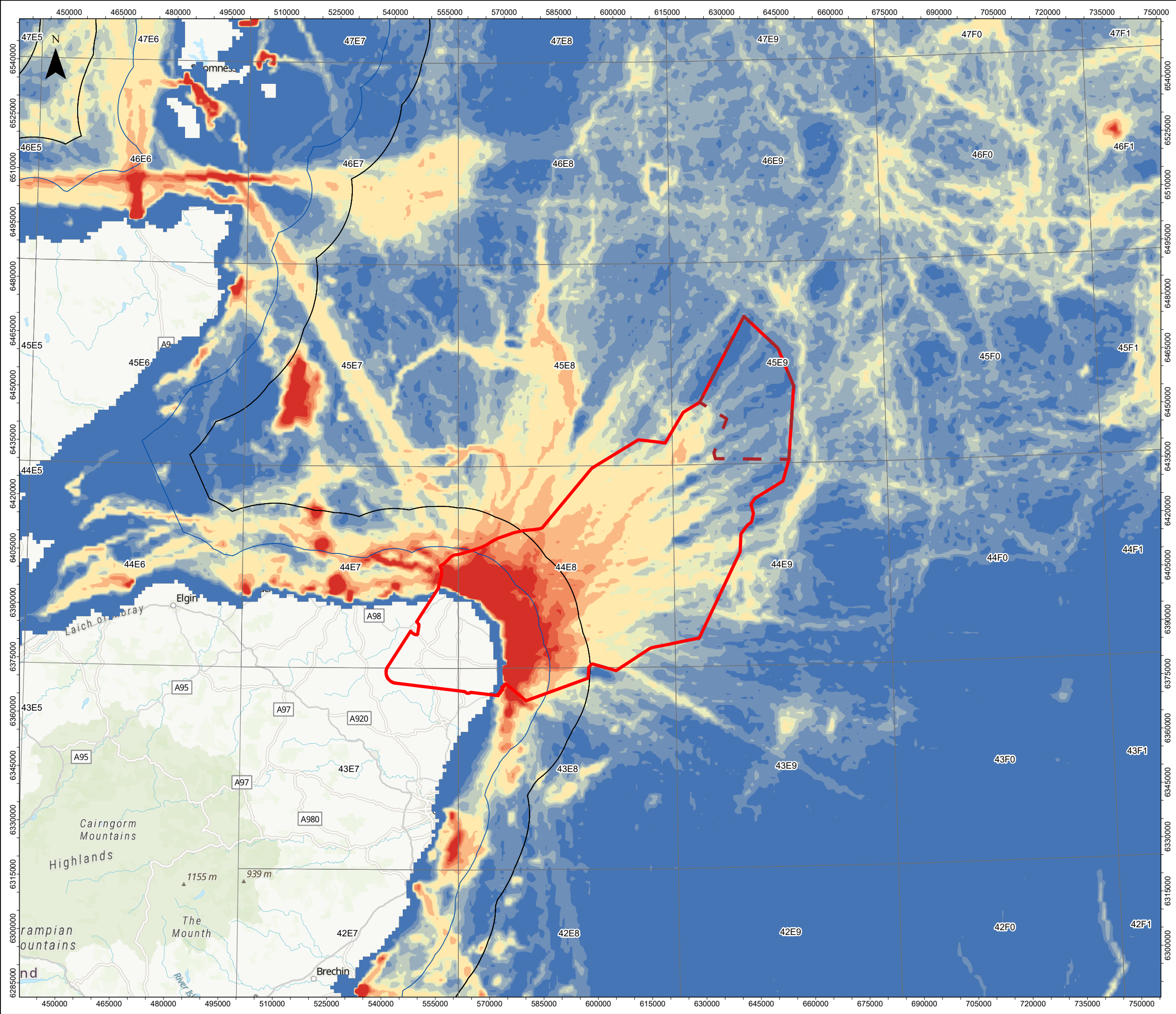
ScotMap crab and lobster

First sales value

- £0.00 - £500.00
- £500.01 - £1,000.00
- £1,000.01 - £5,000.00
- £5,000.01 - £10,000.00
- £10,000.01 - £15,000.00
- £15,000.01 - £20,000.00
- £20,000.01 - £34,708.43



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DRAWING TITLE Figure 5.9.4 ScotMap data indicating the monetary value of potting for crab and lobster (2013) Data source: Marine Scotland, 2022					
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Scoping Boundary

NE7 Option Agreement Area

ICES Statistical Rectangles

12 NM limit

6 NM limit

Fishing Vessel Route Density (2020)

0 - 10

10 - 20

20 - 30

30 - 40

40 - 50

50 - 100

100 - 150

150 - 200

200 - 250

>250

02550

Kilometres

North Sea

Scale: 1:10,000,000

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ETRS 89

PROJECTION

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PROJECT TITLE

MarramWind

DRAWING TITLE

Figure 5.9.5 Fishing vessel route density Routes per square km per year For fishing vessels with AIS

Data Source: EMSA, 2022

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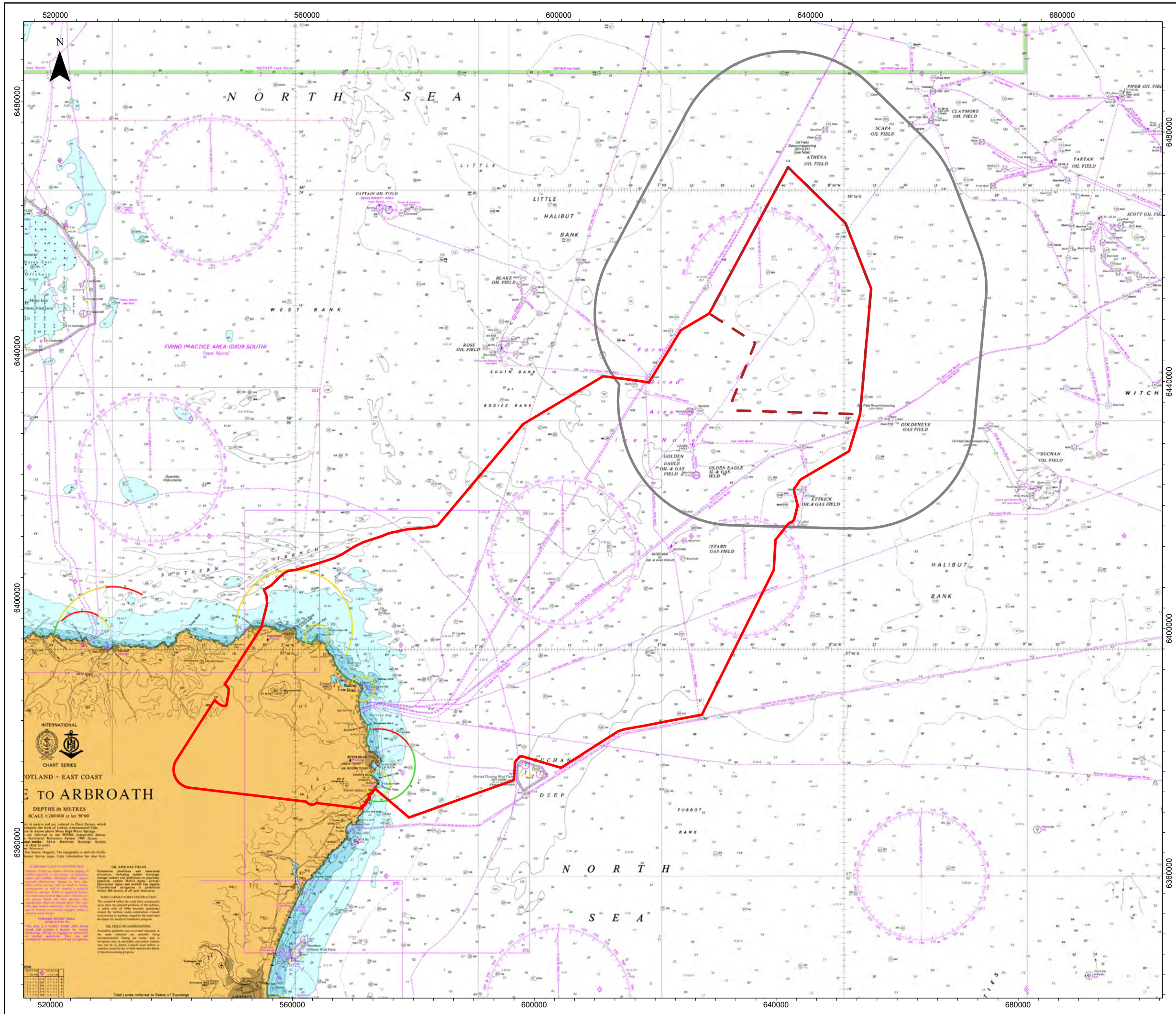
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POSEIDON

AQUATIC RESOURCE MANAGEMENT

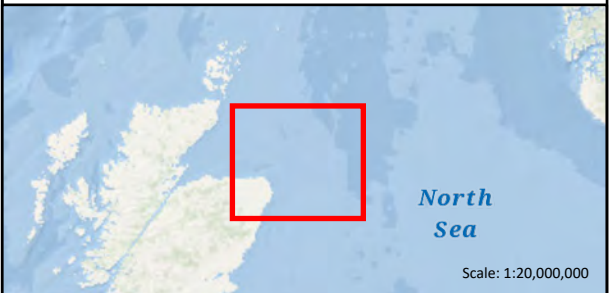
MarramWind

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- Scoping Boundary
- NE7 Option Agreement Area
- Shipping and navigation study area

0 16 32 48 Kilometres



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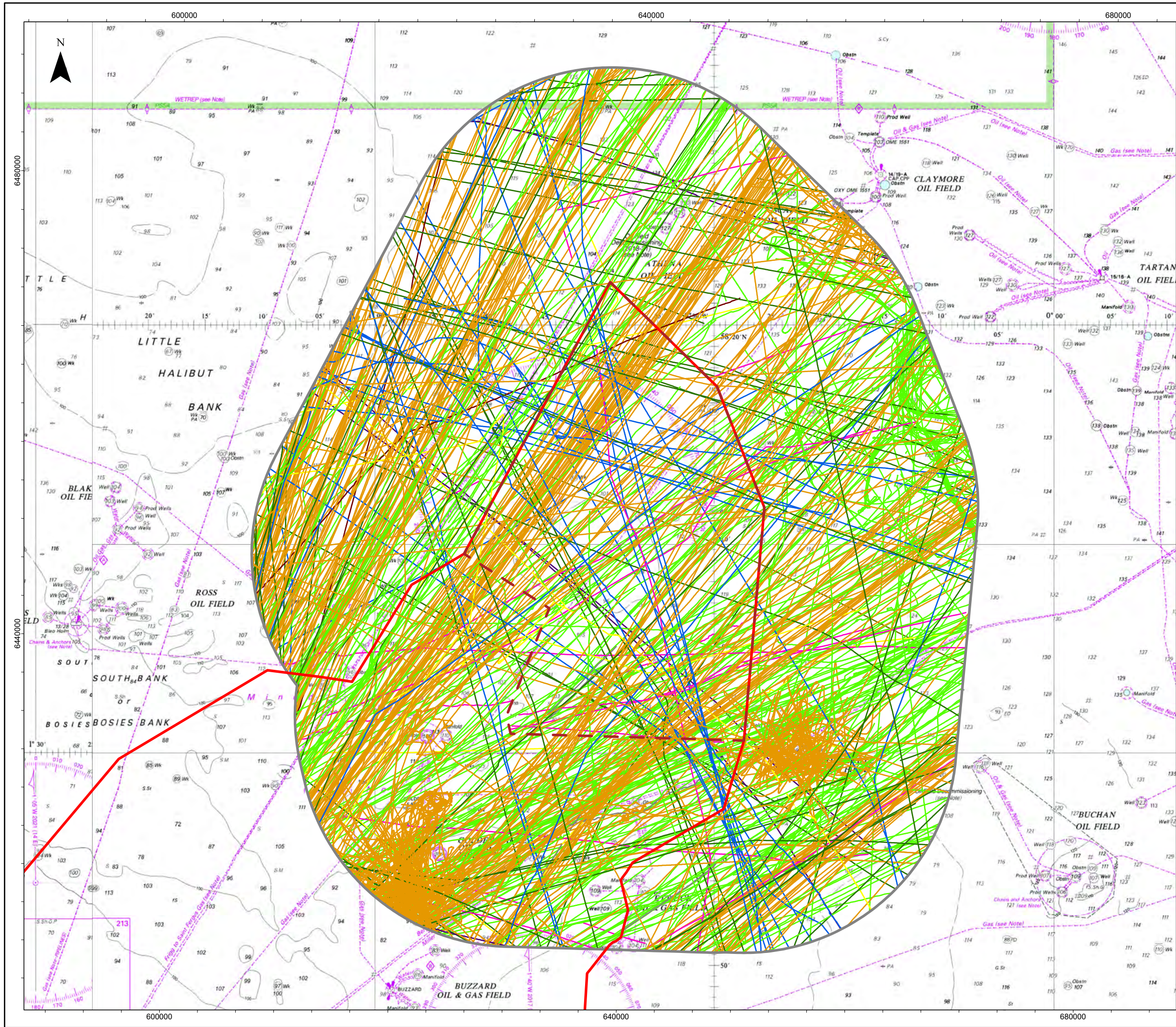
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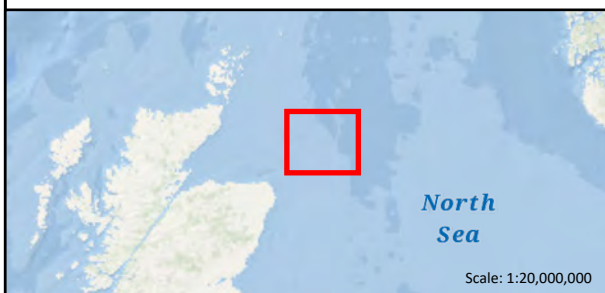
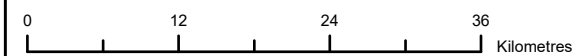
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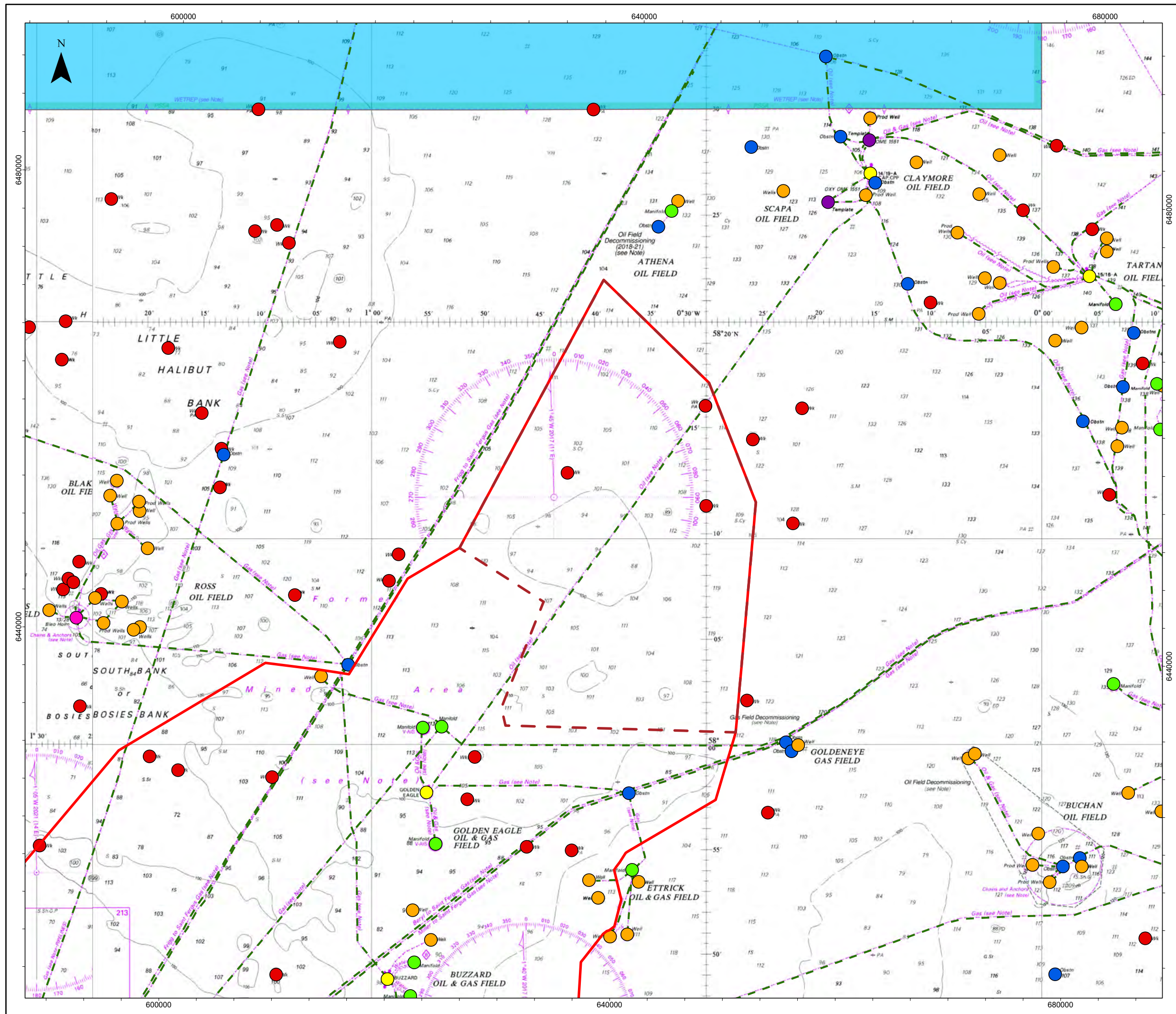
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- Scoping Boundary
- NE7 Option Agreement Area
- Shipping and navigation study area
- Vessel Type
- Unspecified
 - Fishing
 - Military
 - Tug
 - Passenger
 - Cargo
 - Tanker
 - Other
 - Recreational
 - Oil and Gas



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DRAWING TITLE Figure 5.10.2 Vessels by type (28 days automatic identification system and radar) in the shipping and navigation study area					
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Scoping Boundary

NE7 Option Agreement Area

Navigational features

Western european tanker reporting system

Pipeline

Manifold

Well

Obstruction

Wreck

Floating production storage and offloading

Template

Platform

0122436

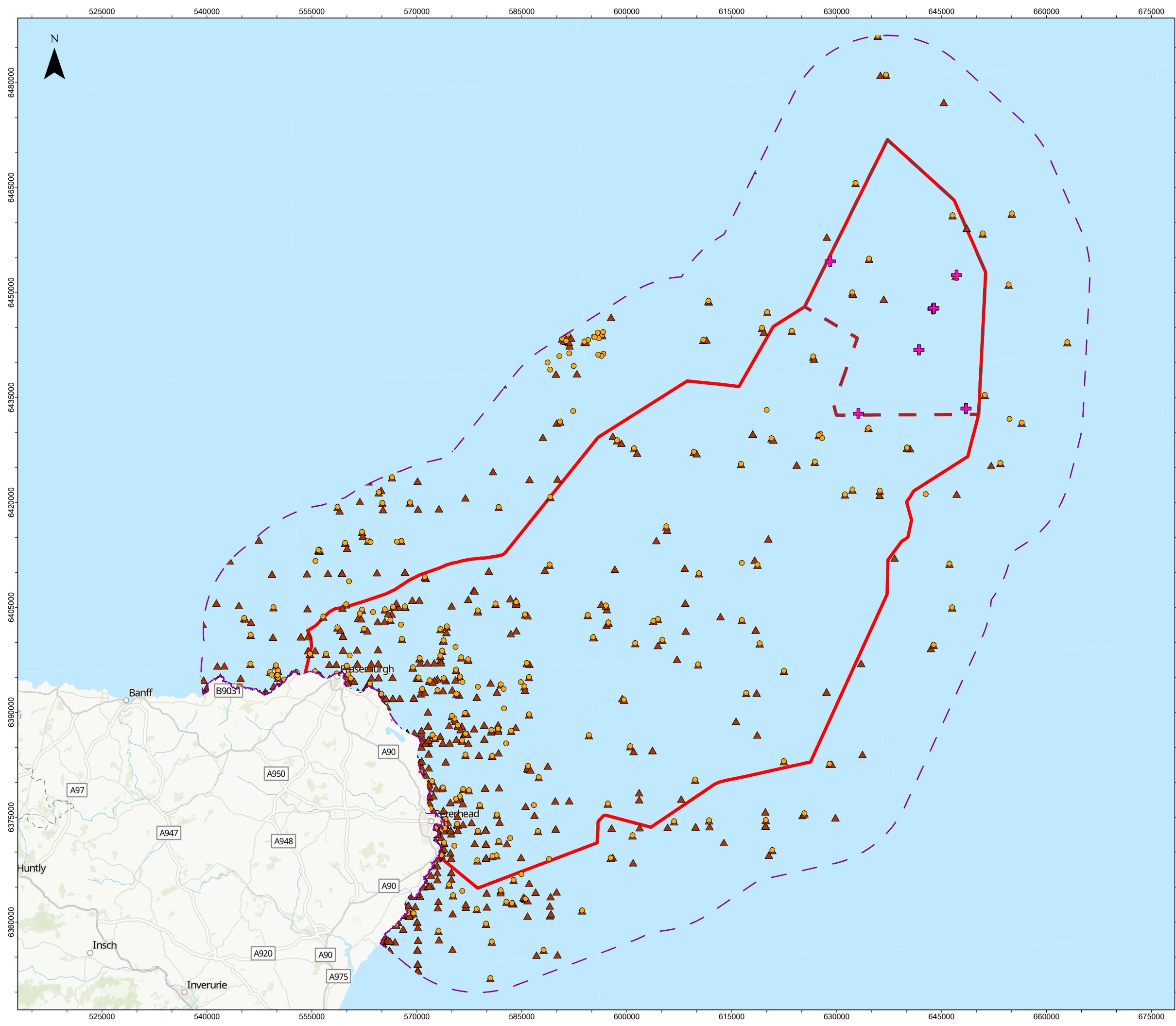
Kilometres

North Sea

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DRAWING TITLE Figure 5.10.3 Navigational features in the vicinity of the Marram Wind offshore wind farm					
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Project: A4924 Marram Wind
Name: SCW_WGS84_World_Mercator_A3_Landscape_Template_Anatec



Scoping Boundary

NE7 Option Agreement Area

Marine Archaeology and Cultural Heritage Study Area

Canmore - Maritime

UKHO Wrecks and Obstruction Points

PAD reports

0

12.5

25

Kilometres

North Sea

Scale: 1:10,000,000

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PROJECT TITLEMarramWind

DRAWING TITLEFigure 5.11.1 Marine Heritage Assets

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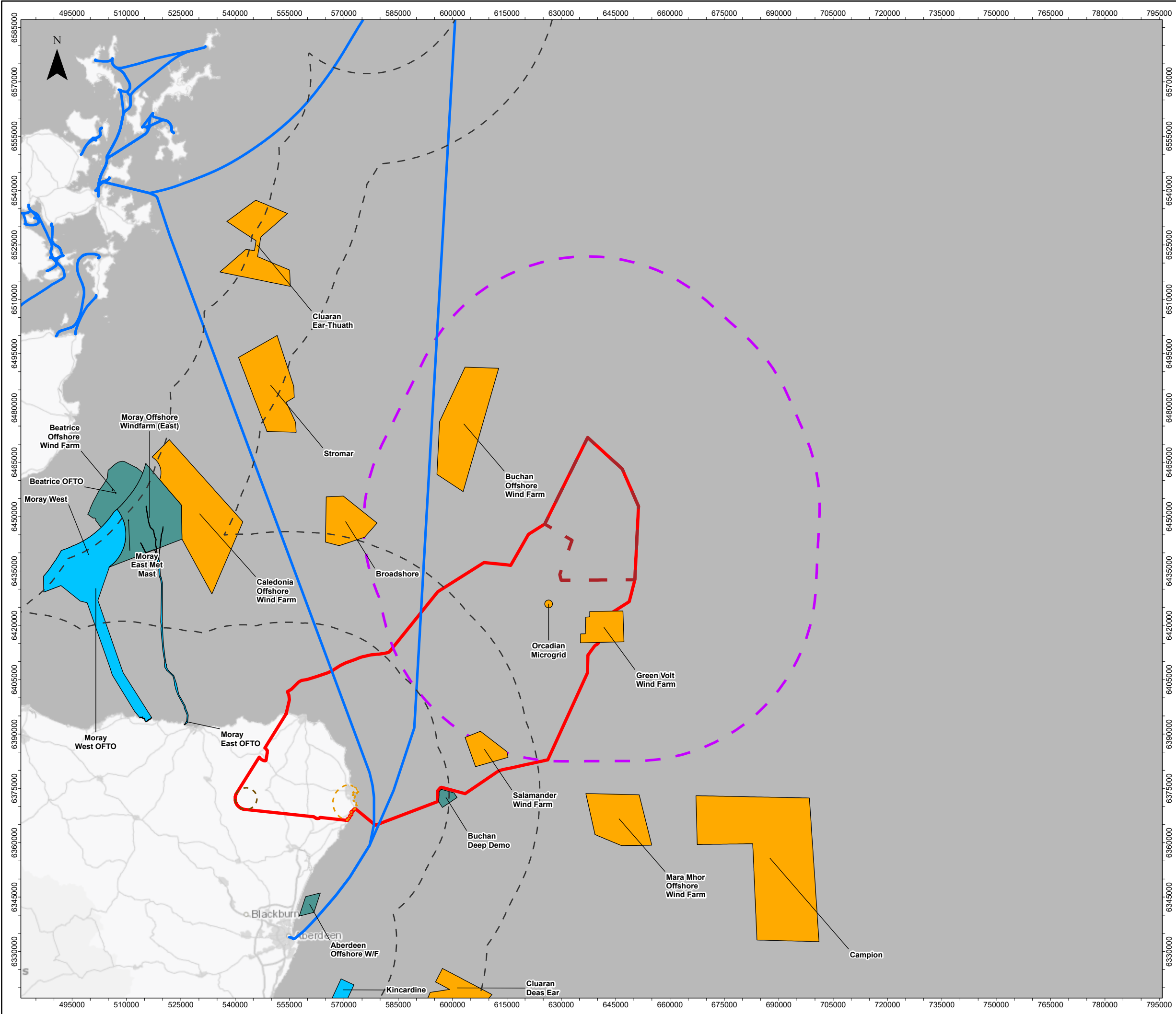
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World Ocean Base: Esri, GEBCO, DeLorme, NaturalVue

World Ocean Reference: Esri UK, Esri, HERE, Garmin, FAO, NOAA, USGS

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Scoping Boundary

NE7 Option Agreement Area

Peterhead onshore substation search area - base case point of connection for up to 3GW

New Deer onshore substation search area - contingent point of connection for remaining 1.5 GW

SLVIA Study Area

25km Coastline Buffer

50km Coastline Buffer

Ferry Routes

Project Phase

Operational

Under construction

Pre Planning

Earlier Stages of Development

Consented

In Planning

Under Construction

02550

Kilometres



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DRAWING TITLE	Figure 5.12.1 SLVIA study area				
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World Ocean Base: Esri, GEBCO, DeLorme, NaturalVue

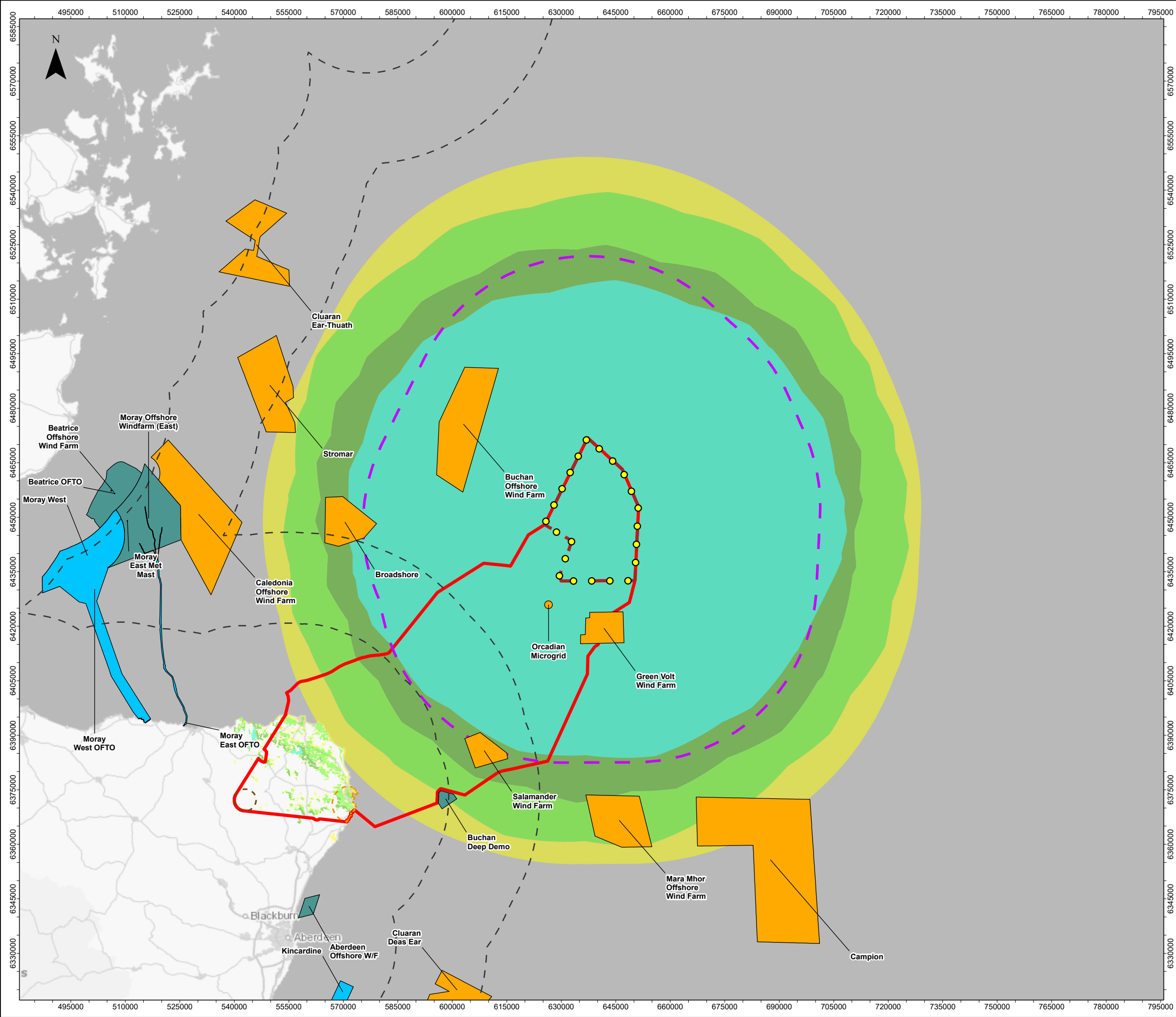
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Scoping Boundary

NE7 Option Agreement Area

Peterhead onshore substation search area - base case point of connection for up to 3GW

New Deer onshore substation search area - contingent point of connection for remaining 1.5 GW

SLVIA Study Area

25km Coastline Buffer

50km Coastline Buffer

Turbine_markers

Other Offshore Wind Farms

Project Phase

Operational

Under construction

Pre Planning

Earlier Stages of Development

Consented

In Planning

Under Construction

Zone of theoretical visibility (up to 100km)

1-5 turbine markers may be theoretically visible

6-11 turbine markers may be theoretically visible

12-16 turbine markers may be theoretically visible

17-22 turbine markers may be theoretically visible

Note: The ZTV has been generated by positioning 22 turbine markers around the perimeter of the NE7 Option Agreement Area.

Blade tip height: 350m
Observer height: 2m
Surface features: Excluded
Earth Curvature: Included

0

25

50

Kilometres

North Sea

Scale: 1:10,000,000

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PROJECT TITLE

MarramWind

DRAWING TITLE

Figure 5.12.2 SLVIA zone of theoretical visibility

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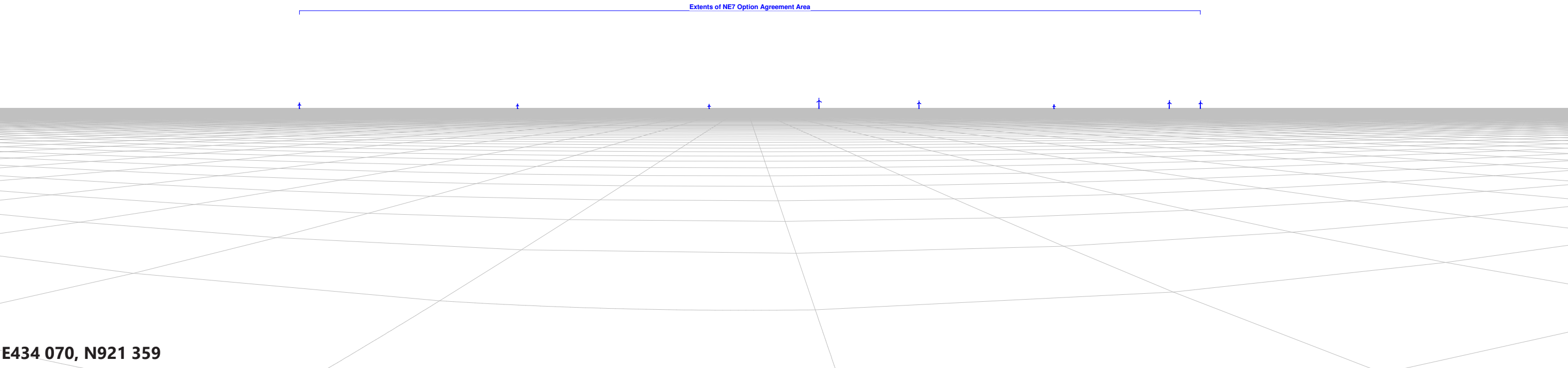
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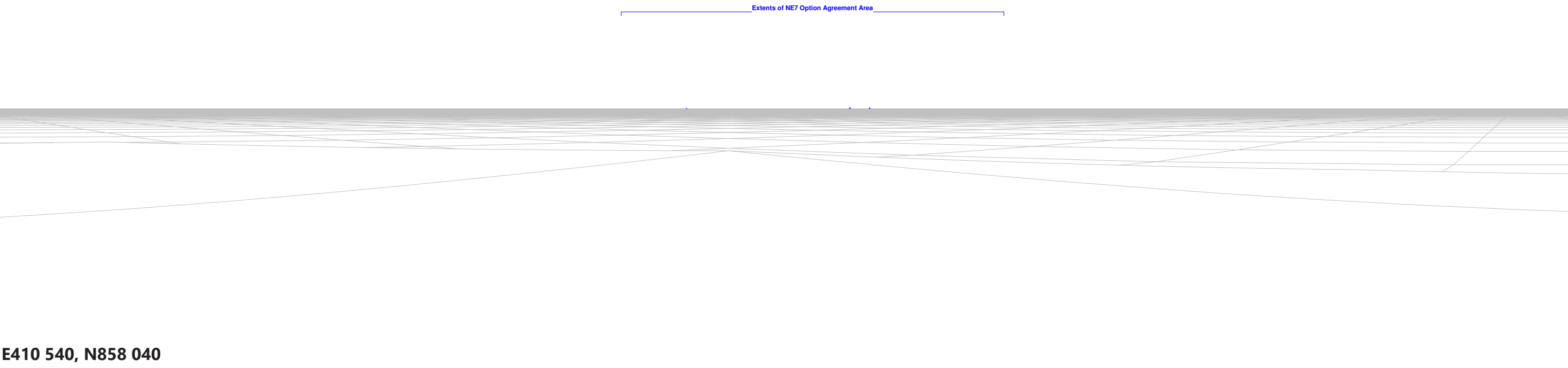
NOT TO BE USED FOR NAVIGATION

VP 1 - Aberdeen to Lerwick Ferry



E434 070, N921 359

VP 2 - Ratray Head



E410 540, N858 040

Wind Farm Key:  Marram Offshore Wind Farm (Extents of NE7 Option Agreement Area)

Notes: 90° Horizontal Field of View. View flat at a comfortable arm's length.
Indicative wirelines are based on indicative turbines 350m to blade tip positioned at the corners of the NE7 Option Agreement Area.

Client

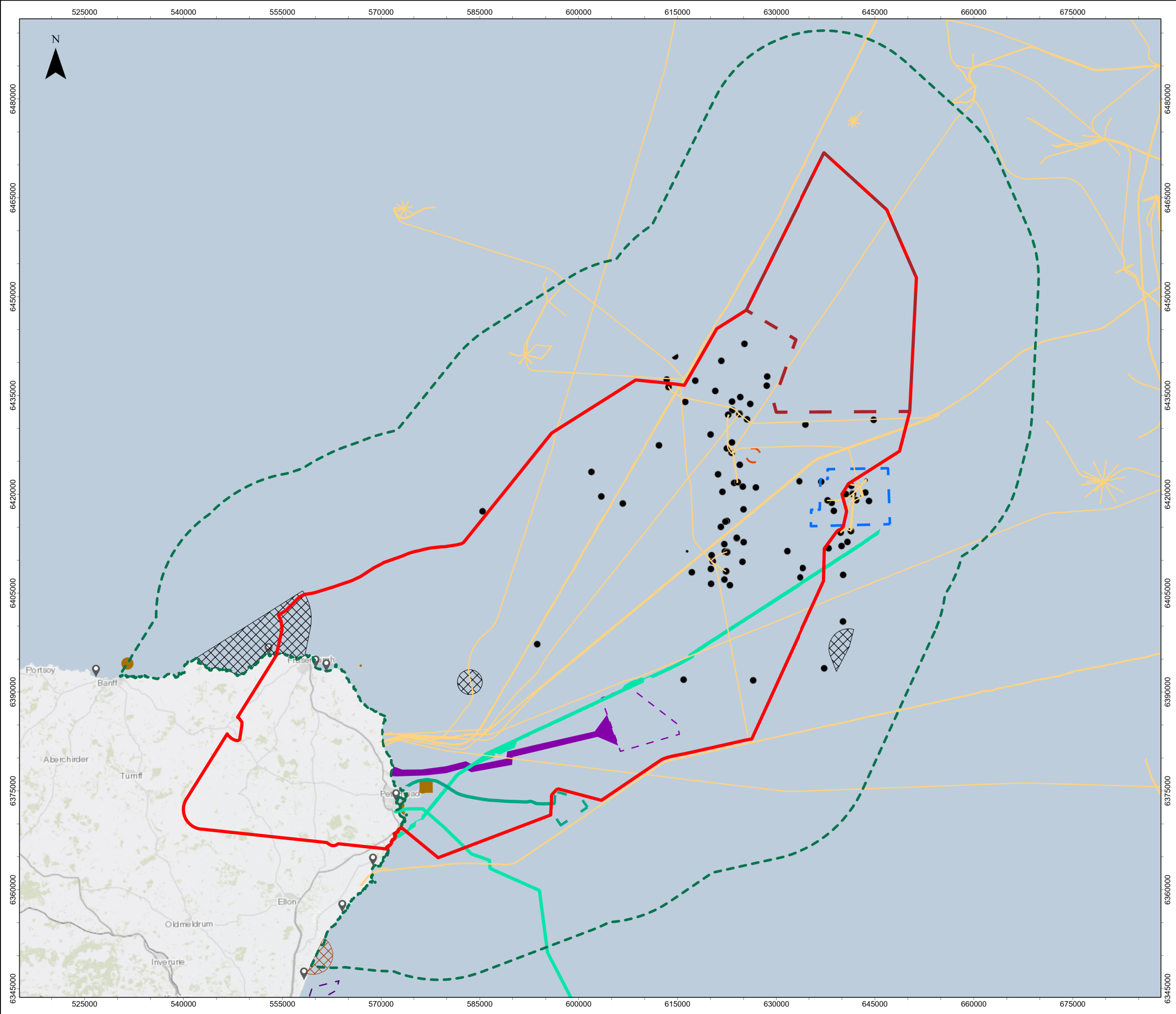
MarramWind
A joint venture between ScottishPower and Shell UK

Figure 5.12.3 Scoping Wirelines

Marram Offshore Wind Farm

October 2022





Scoping Boundary

NE7 Option Agreement Area

10 Nautical Mile Buffer around Scoping Boundary

Pipelines

Aberdeen Offshore Windfarm

Hywind Floating Offshore Windfarm

Hywind Cable Route 250m buffer

North Cable Route (Digitised)

Eastern Link Cable Route 250m buffer

Green Volt Offshore Wind Farm

Orcadian Microgrid Offshore Wind Farm

Salamander Cable Route

Salamander Wind Farm

High UXO Constraint areas (24/06/2022)

Oil and Gas Subsurface Infrastructure

Oil and Gas Wells

Oil and Gas Platforms

Nautical Chart Firing Range

Bathing water locations

Disposal Sites

01020

Kilometres



6	23/01/2022	RE	AMc	LG	LO
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PROJECT TITLEMarramWind

DRAWING TITLEFigure 5.13.1 Infrastructure and other marine users

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NOT TO BE USED FOR NAVIGATION

wsp

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