

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)**

## Contents

### Chapter 5 Environmental Aspects Offshore

#### Section 5.9: Commercial fisheries

- Figure 5.9.1 Commercial fisheries study area.
- 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).
- 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).
- Figure 5.9.4 ScotMap data indicating the monetary value of potting for crab and lobster (2013).
- Figure 5.9.5 Fishing vessel route density routes per square km per year for fishing vessels with AIS.

#### Section 5.10: Shipping and navigation

- Figure 5.10.1 Shipping and navigation study area.
- Figure 5.10.2 Vessels by type (28 days automatic identification system and radar) in the shipping and navigation study area.
- Figure 5.10.3 Navigational features in the vicinity of the Marram offshore wind farm array.

#### Section 5.11: Marine archaeology and cultural heritage

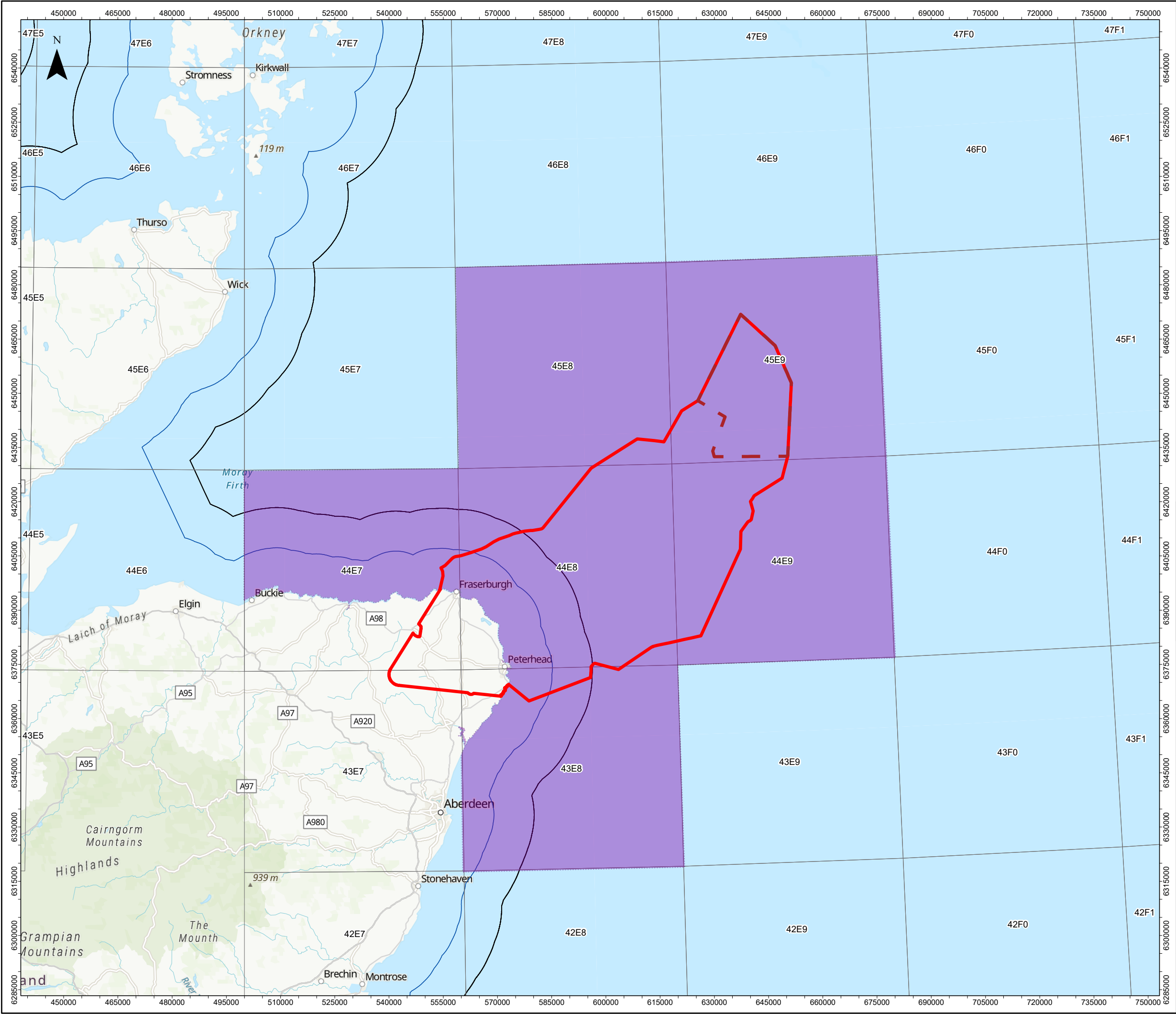
- Figure 5.11.1 Marine heritage assets.

#### Section 5.12: Seascape, landscape and visual

- Figure 5.12.1 SLVIA study area.
- Figure 5.12.2 SLVIA Zone of Theoretical Visibility.
- Figure 5.12.3 Scoping wirelines.

#### Section 5.13: Infrastructure and other marine users

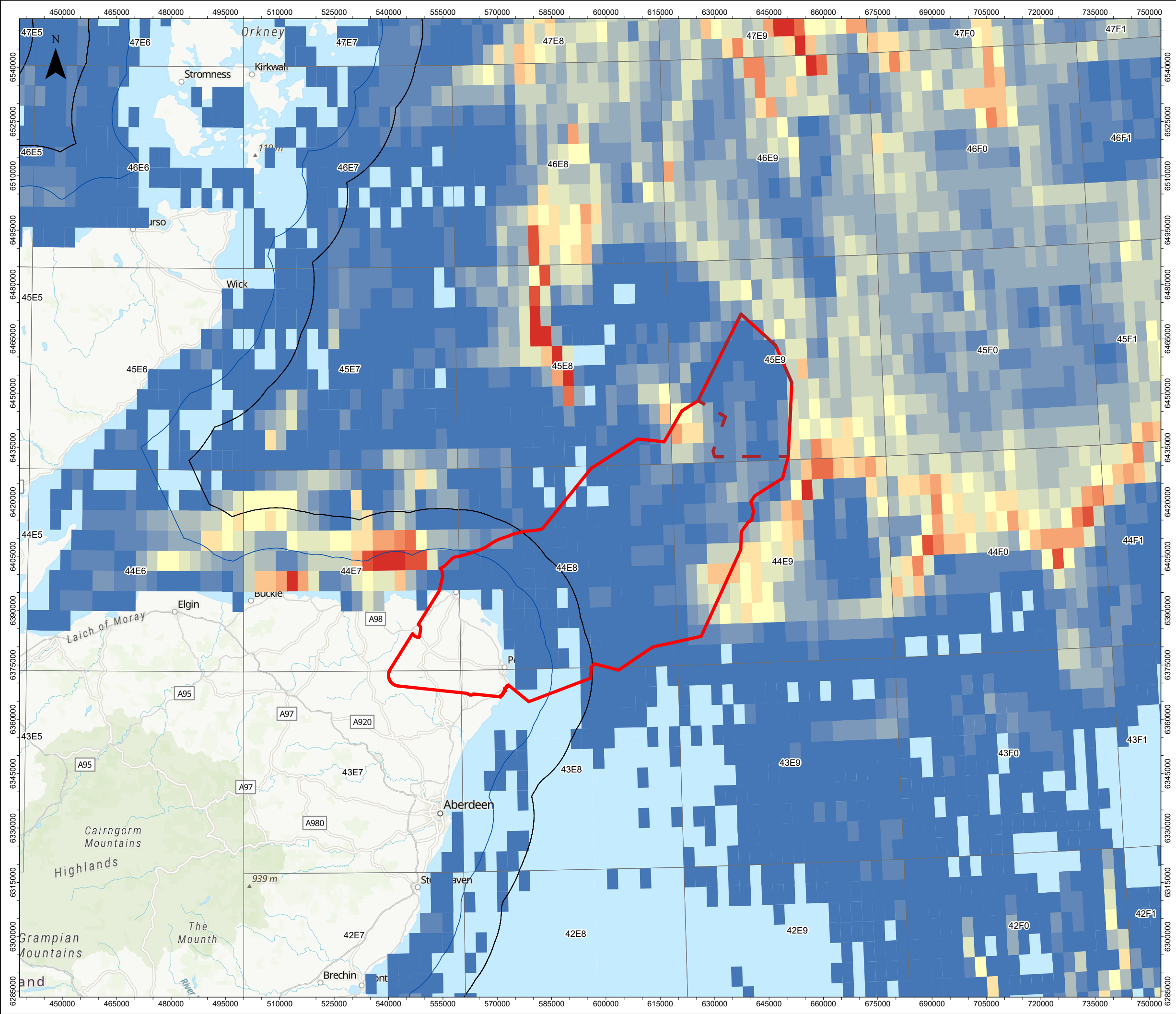
- Figure 5.13.1 Infrastructure and other marine users.



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



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| MarramWind                                                                                                  |            |                               |                                                                                       |                   |                    |    |
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| Figure 5.9.1 Commercial fisheries study area                                                                |            |                               |                                                                                       |                   |                    |    |
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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

0

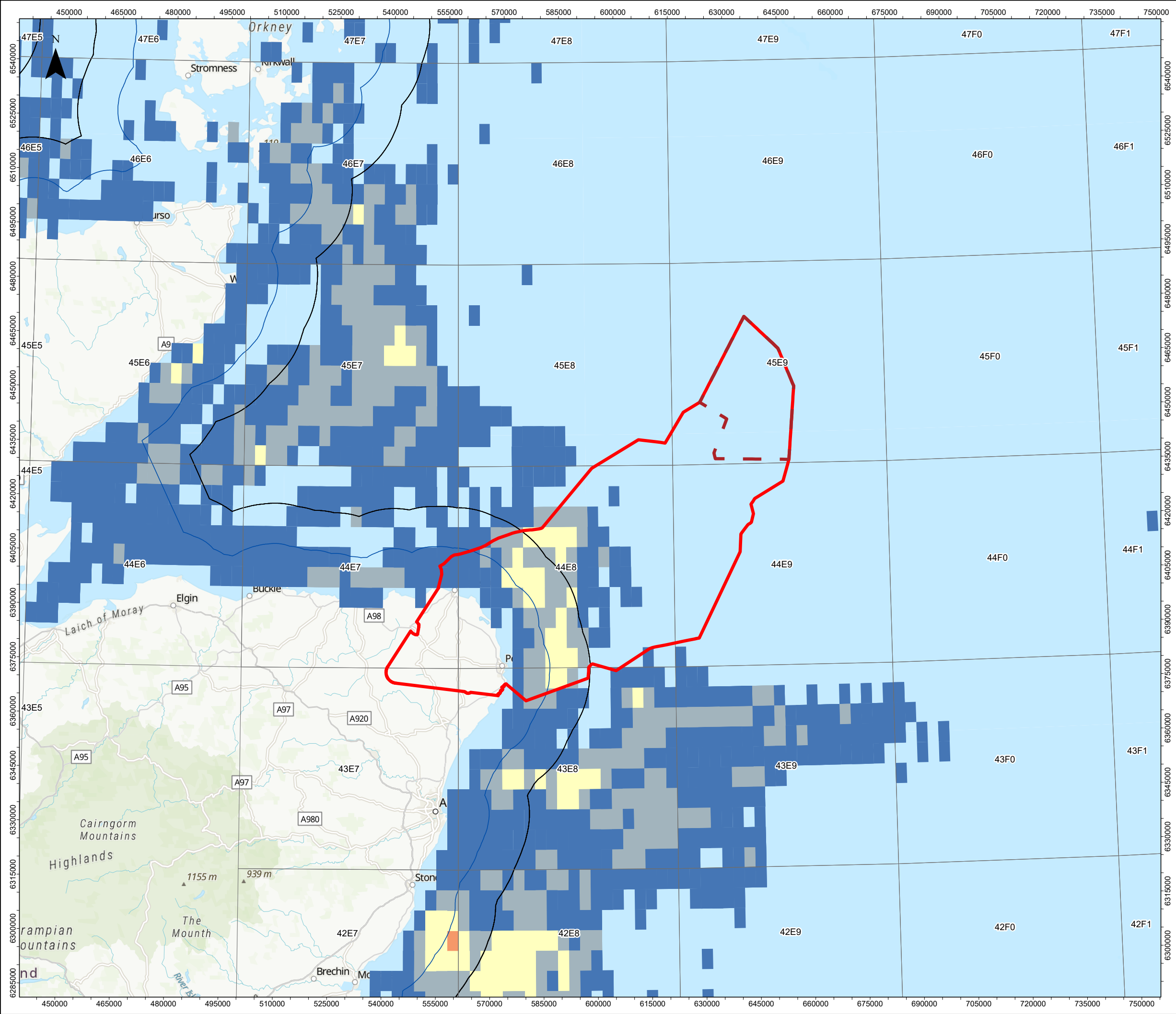
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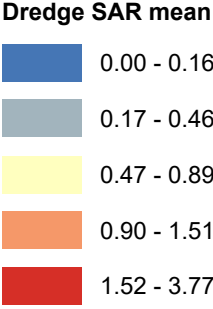
Kilometres



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



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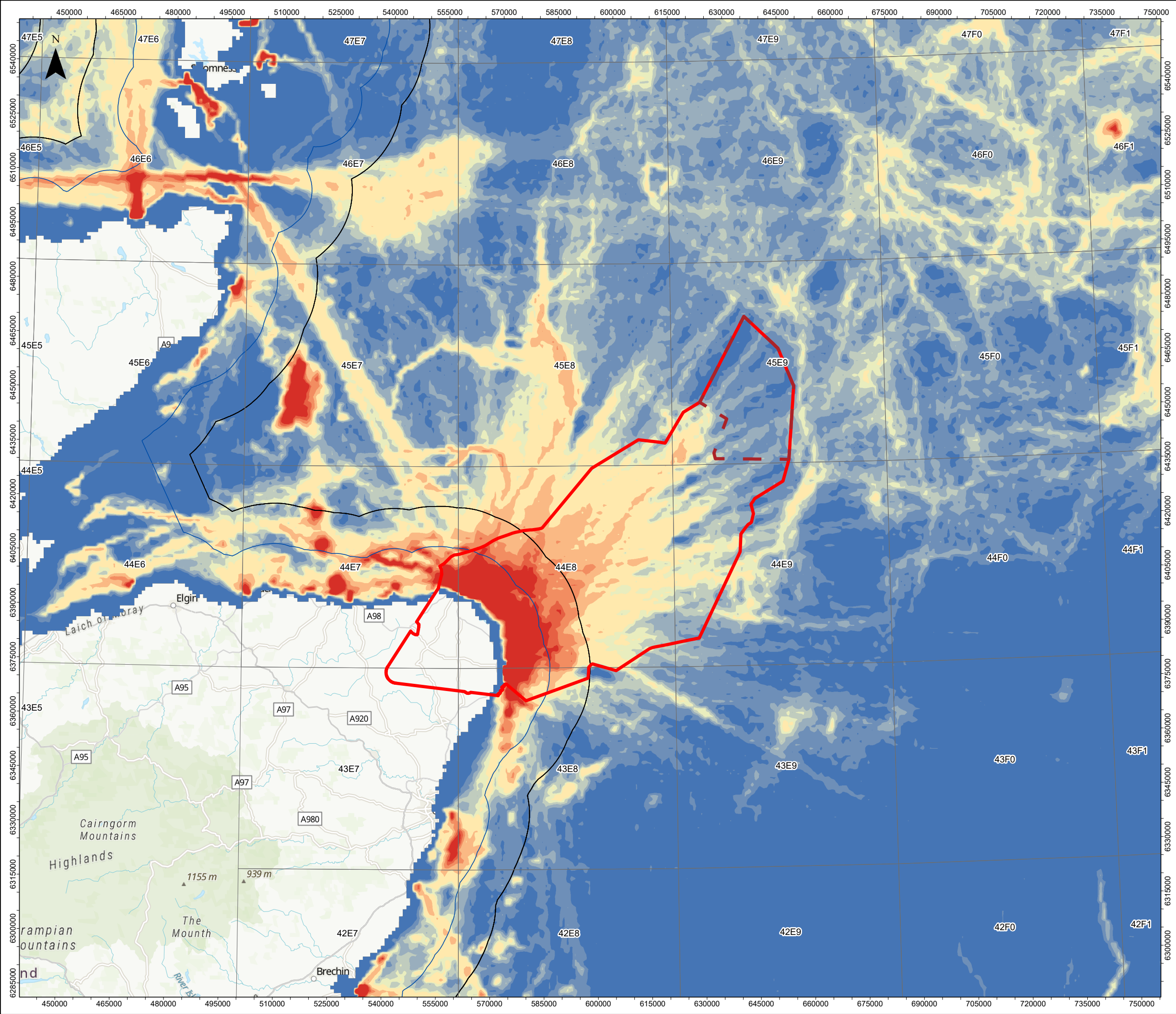
PROJECT TITLE MarramWind

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**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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 Service Layer Credits: World Topographic Map: Esri UK, Esri, HERE, Garmin, Foursquare, FAO, METI/NASA, USGS  
 World Ocean Base: Esri, GEBCO, DeLorme, NaturalVue  
 World Ocean Reference: Esri UK, Esri, HERE, Garmin, FAO, NOAA, USGS

NOT TO BE USED FOR NAVIGATION





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

0

25

50

Kilometres

North Sea

Scale: 1:10,000,000

|     |            |             |              |                   |                    |
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DATUM

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PROJECTION

UTM Zone 30N

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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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World Ocean Base: Esri, GEBCO, DeLorme, NaturalVue

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

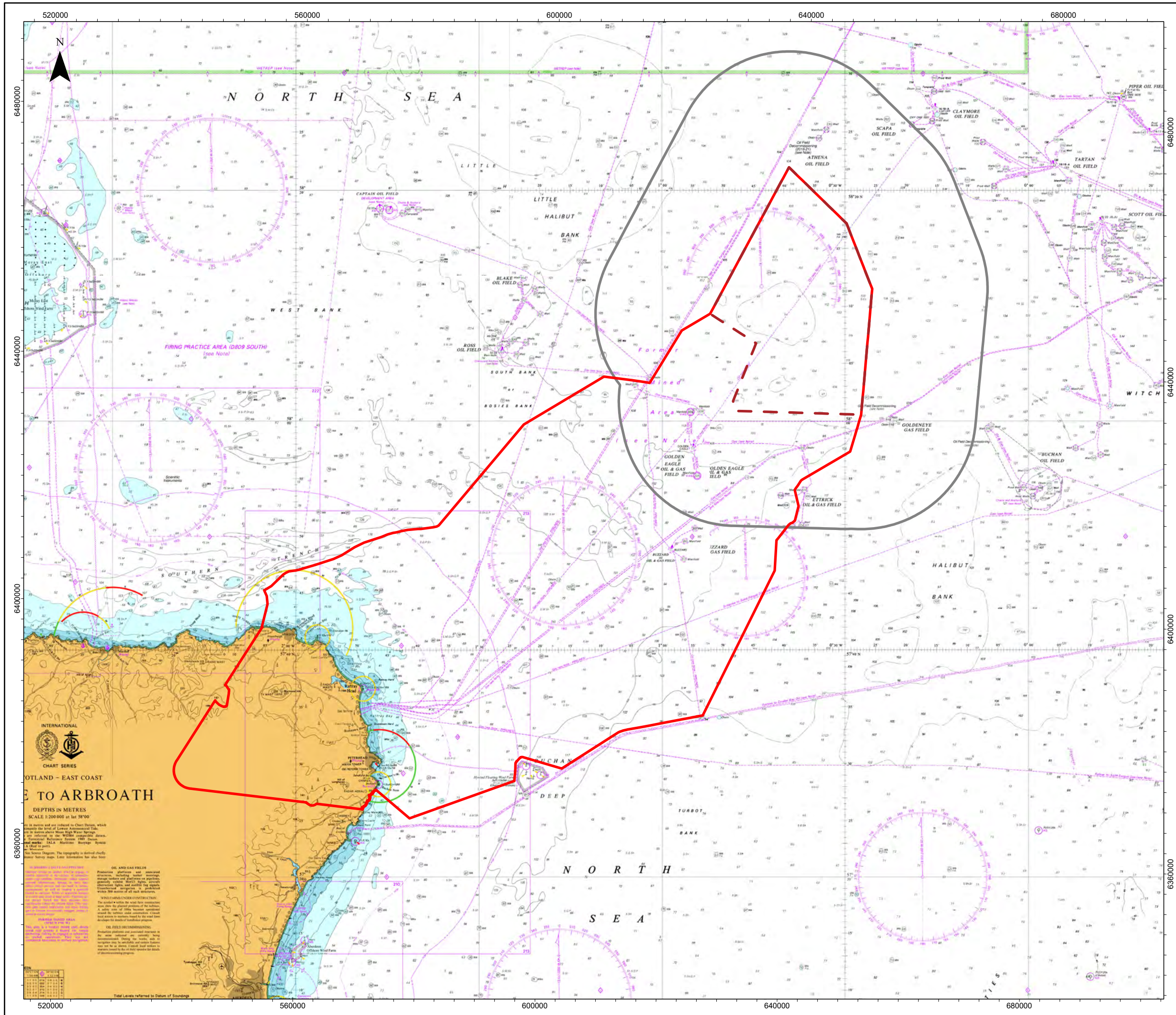
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POSEIDON

AQUATIC RESOURCE MANAGEMENT

MarramWind

A joint venture between ScottishPower and Shell UK



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

0 16 32 48 Kilometres



|     |            |             |              |                   |                    |
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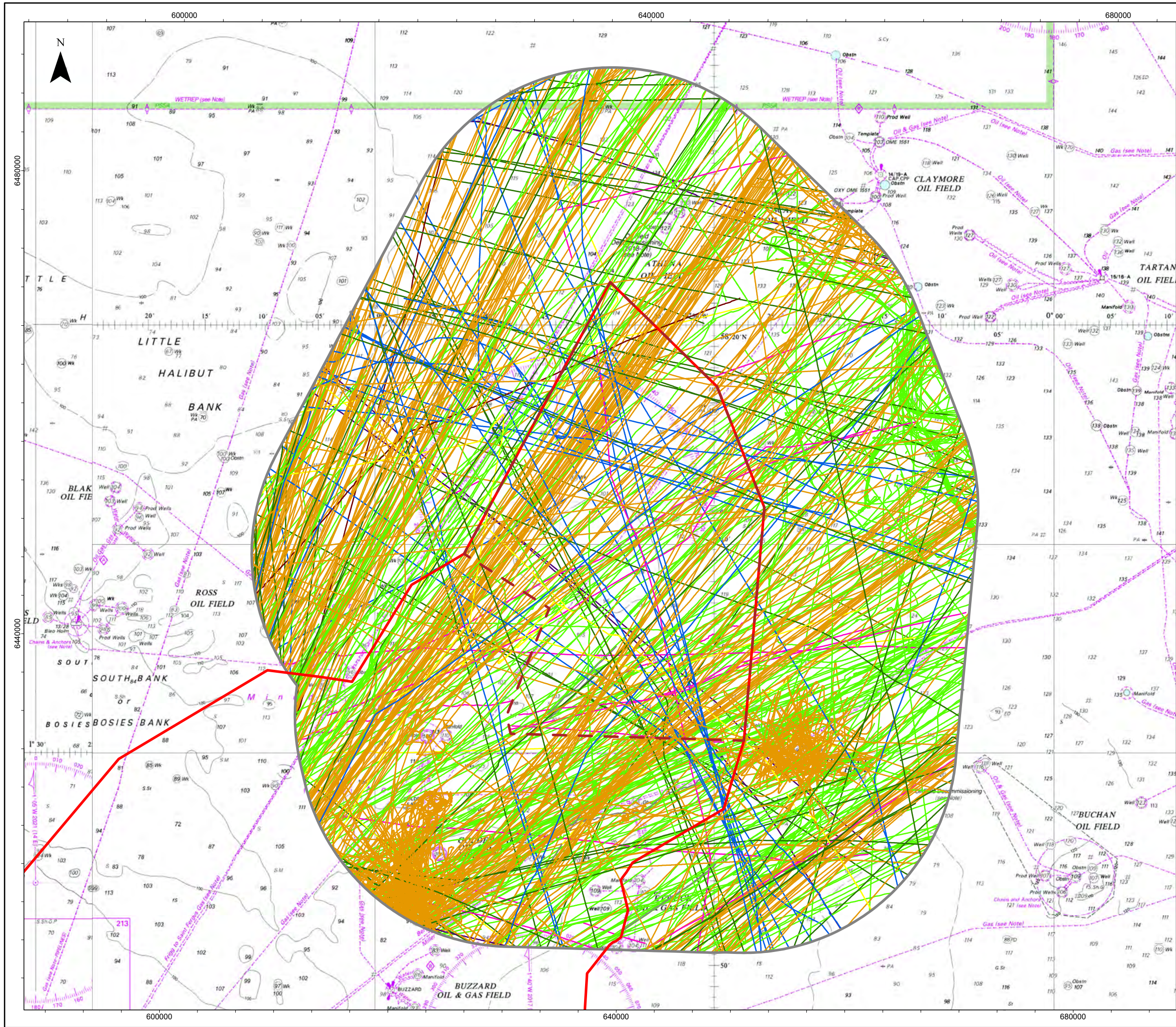
Figure 5.10.1 Shipping and navigation study area

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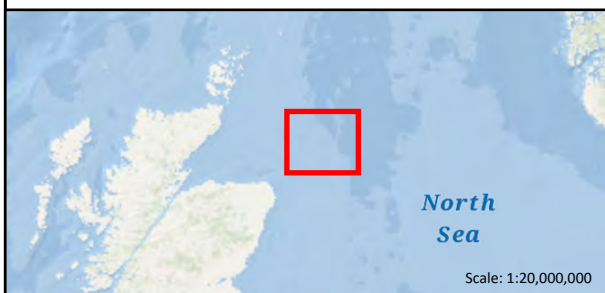
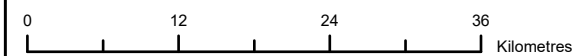
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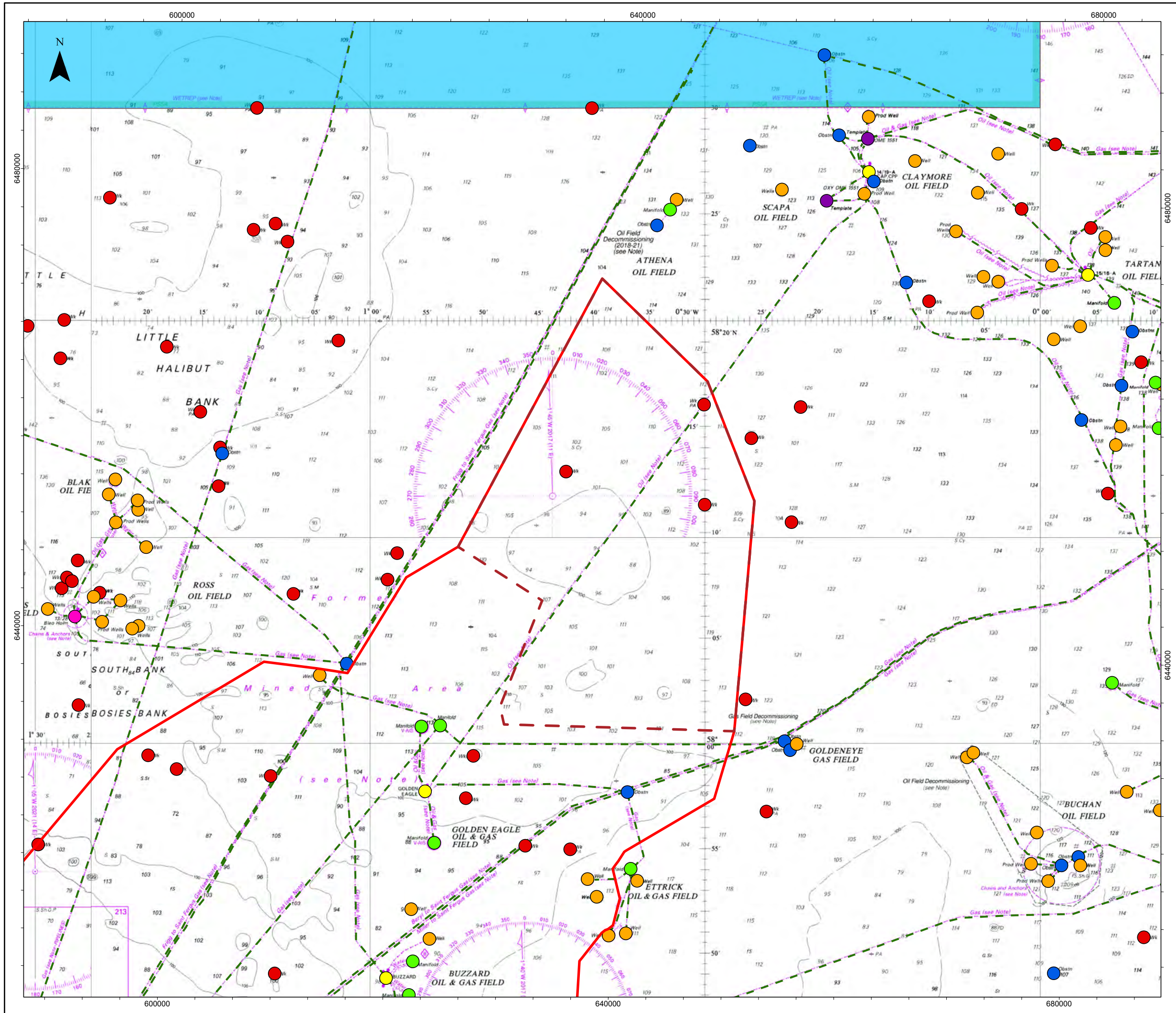
MarramWind  
A joint venture between ScottishPower and Shell UK



- 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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| 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

Navigation features

Western European tanker reporting system

Pipeline

Manifold

Well

Obstruction

Wreck

Floating production storage and offloading

Template

Platform

0

12

24

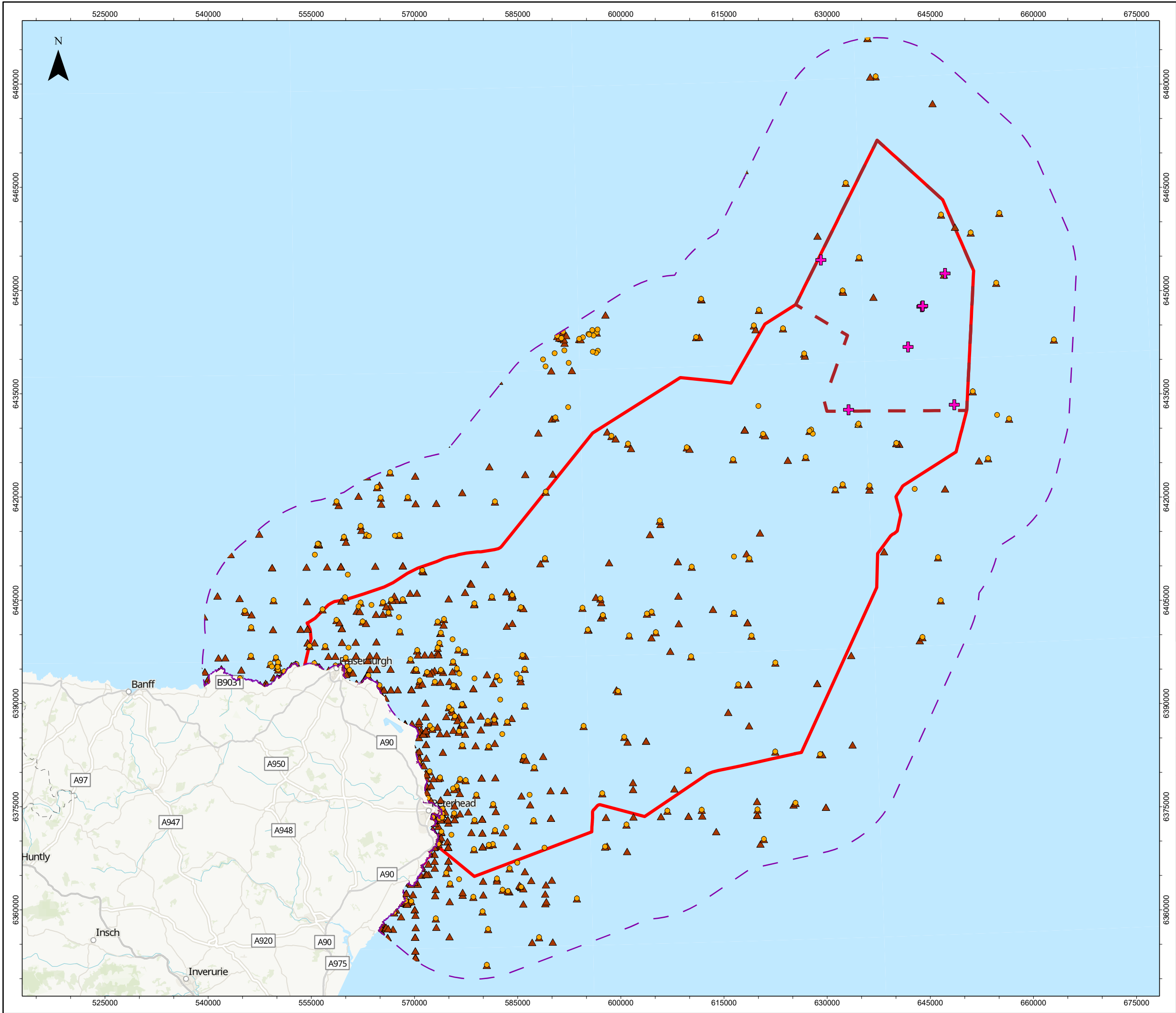
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Kilometres

North Sea

Scale: 1:20,000,000

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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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|                                                                                                                                                                                                                                                                                              |            |                               | <div>A joint venture between ScottishPower and Shell UK</div> |                   |                    |



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 TITLE

MarramWind

DRAWING TITLE

Figure 5.11.1 Marine Heritage Assets

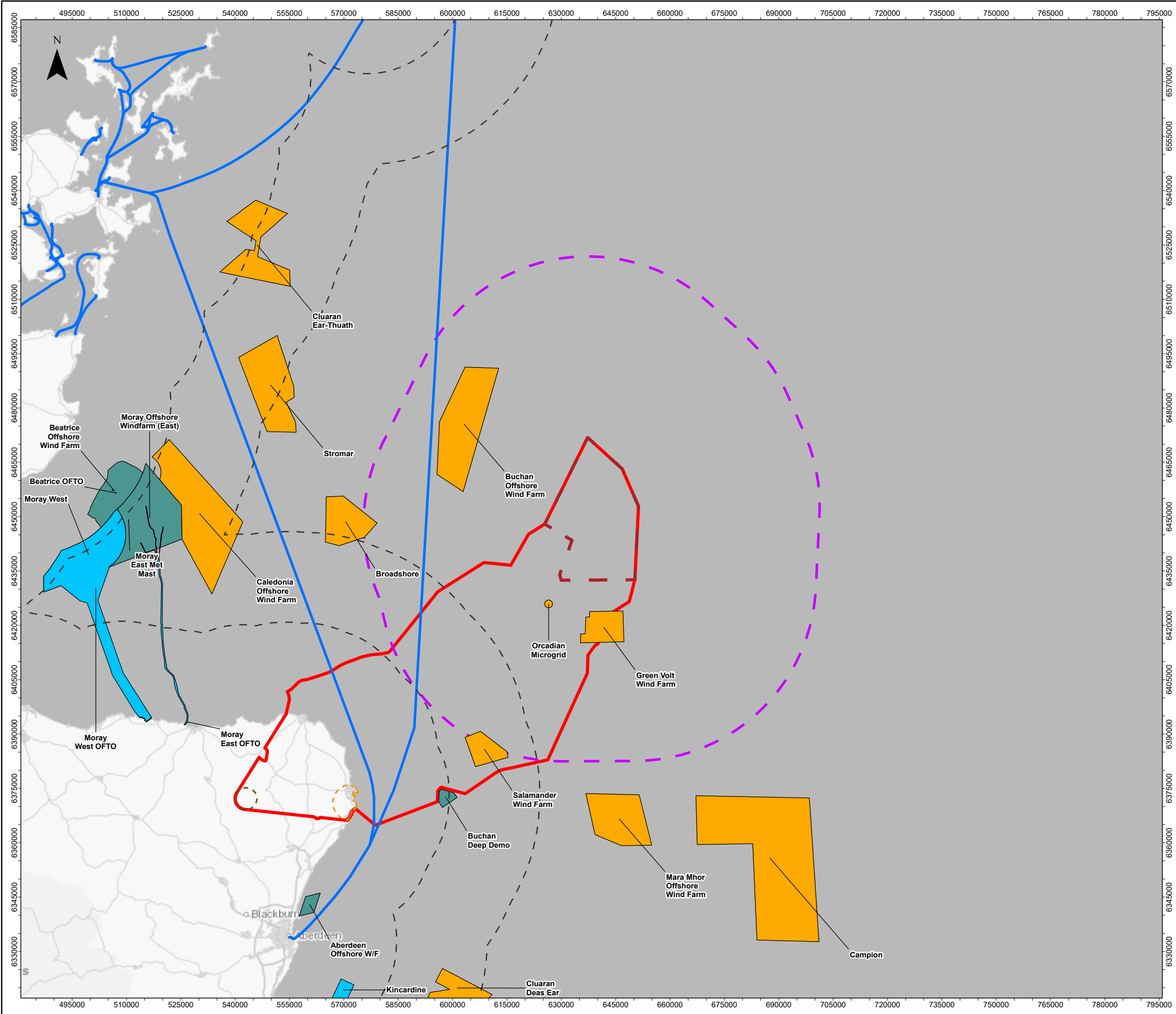
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NOT TO BE USED FOR NAVIGATION

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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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PROJECT TITLE

MarramWind

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Figure 5.12.1 SLVIA study area

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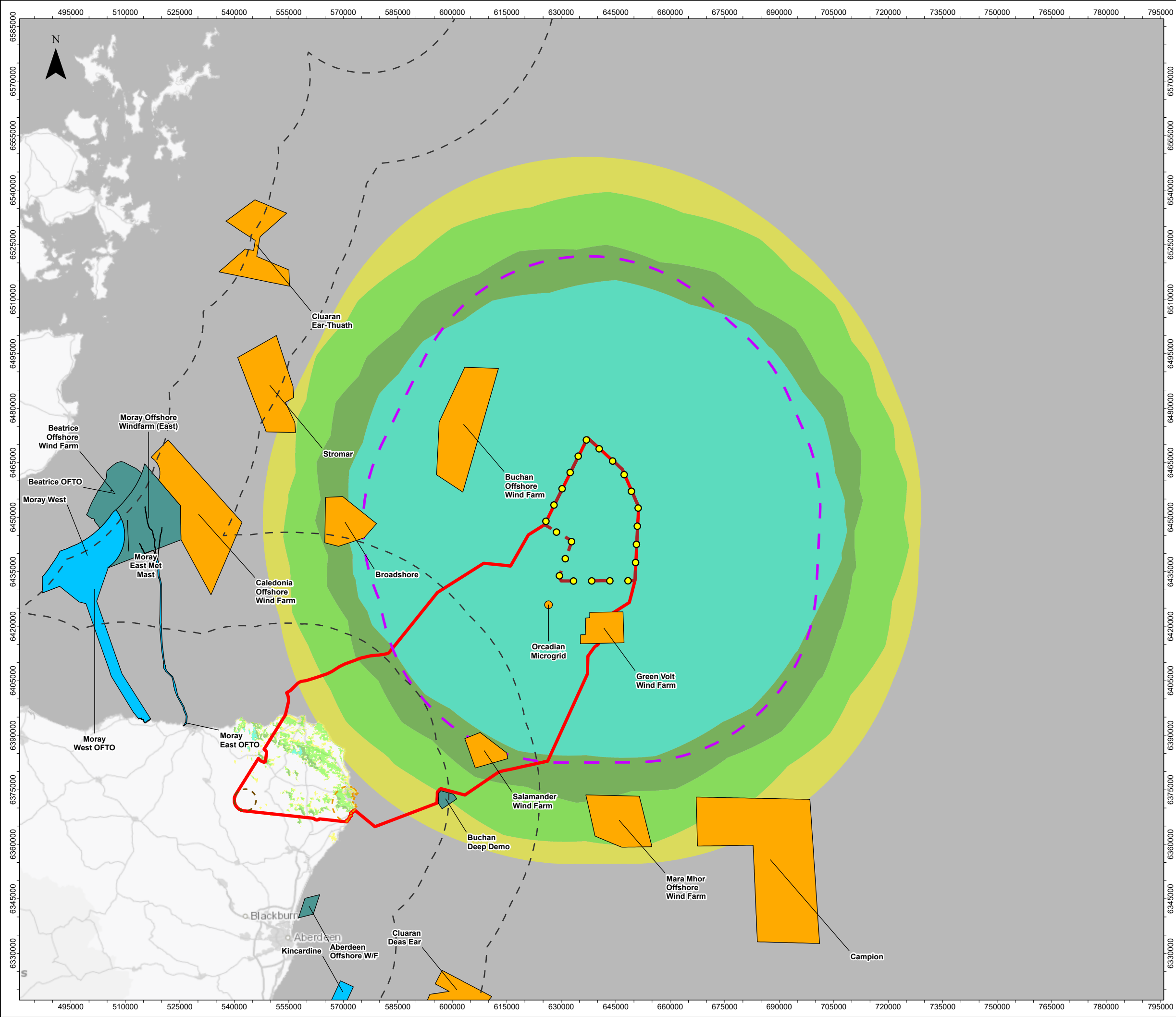
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World Ocean Base: Esri, GEBCO, DeLorme, NaturalVue

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

NOT TO BE USED FOR NAVIGATION

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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

Scale: 1:10,000,000

|     |            |             |              |                   |                    |
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DATUM

ETRS 89

PROJECTION

UTM Zone 30N

SCALE

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PROJECT TITLE

MarramWind

DRAWING TITLE

Figure 5.12.2 SLVIA zone of theoretical visibility

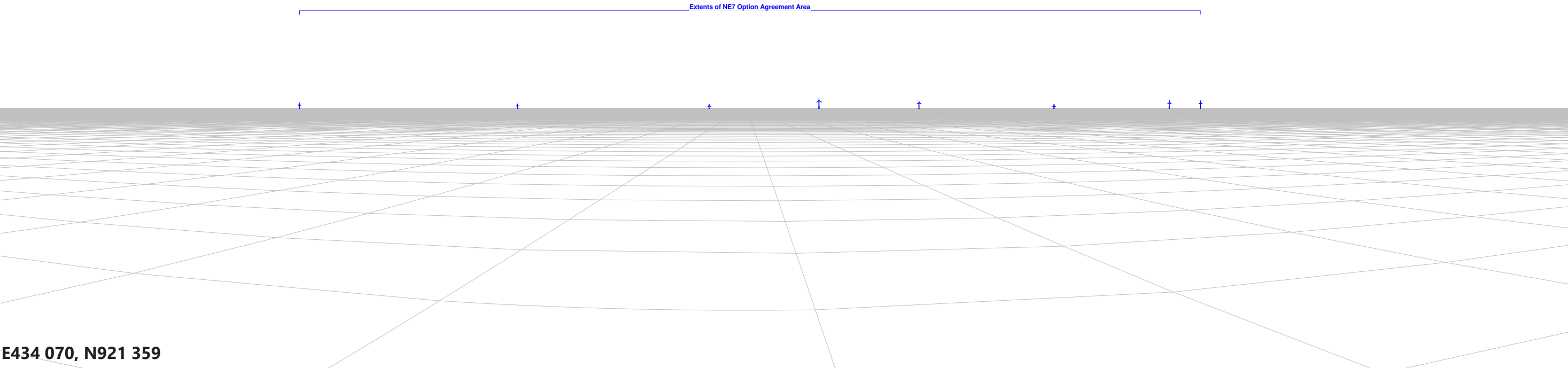
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NOT TO BE USED FOR NAVIGATION

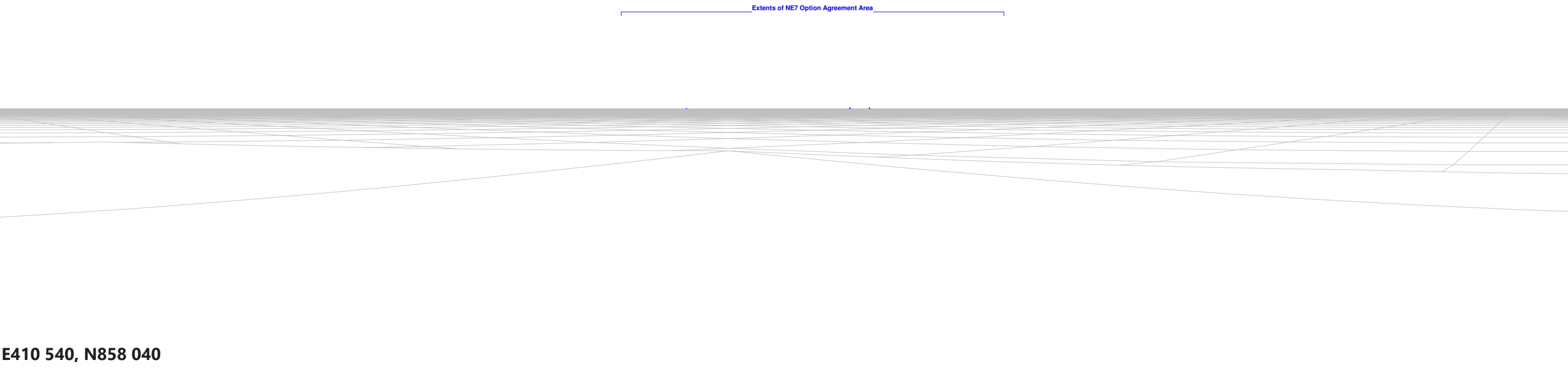
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VP 1 - Aberdeen to Lerwick Ferry



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

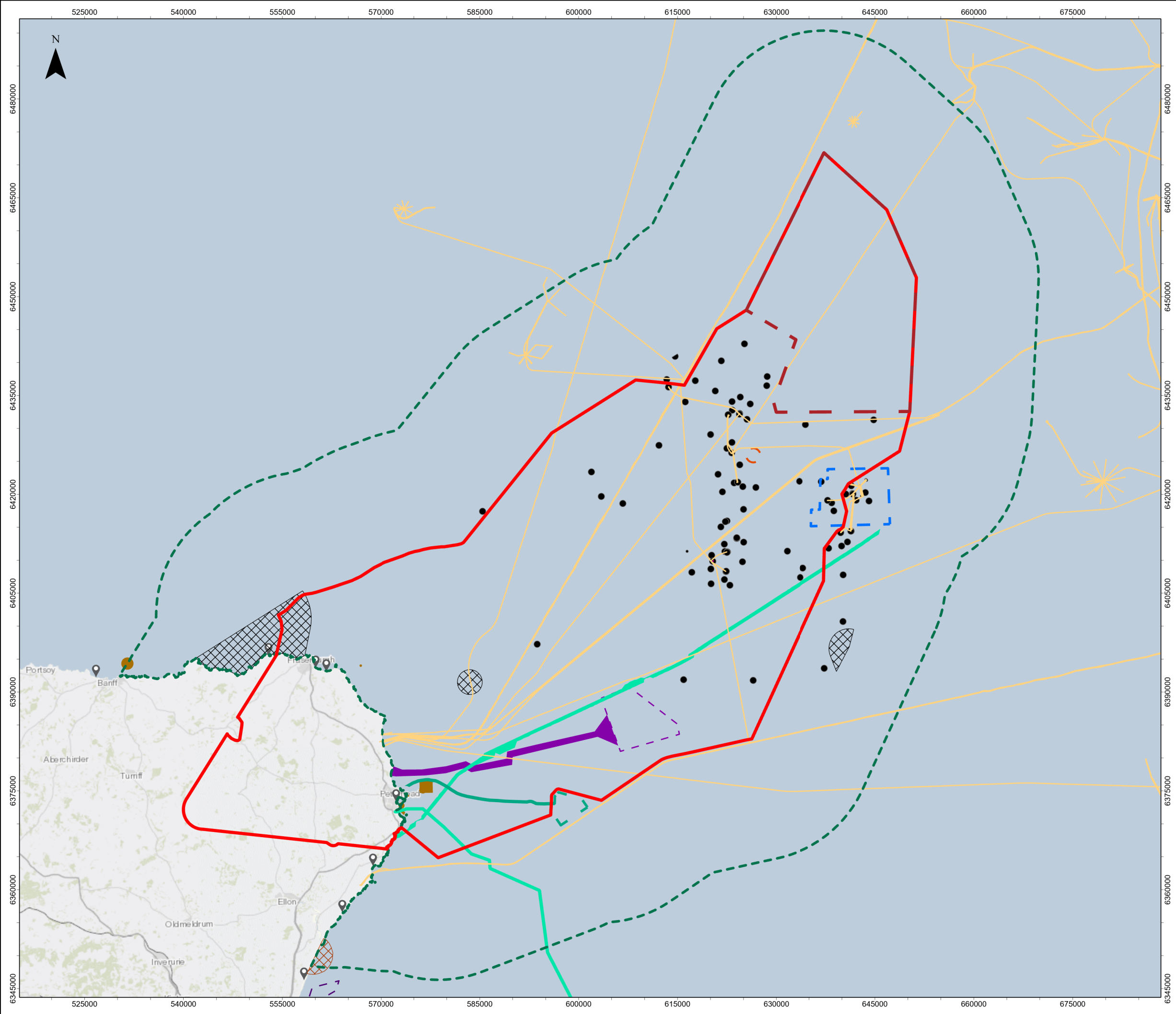
**MarramWind**  
A joint venture between ScottishPower and Shell UK

**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

North Sea

Scale: 1:10,000,000

|     |            |             |              |                   |                    |
|-----|------------|-------------|--------------|-------------------|--------------------|
| 6   | 23/01/2022 | RE          | AMc          | LG                | LO                 |
| 5   | 22/12/2022 | SS          | AMc          | LG                | LO                 |
| 4   | 25/11/2022 | RE          | AMc          | LG                | LO                 |
| REV | REV DATE   | GIS CREATOR | GIS REVIEWER | TECHNICAL CHECKER | TECHNICAL APPROVER |

|                |                              |  |            |              |  |
|----------------|------------------------------|--|------------|--------------|--|
| DRAWING NUMBER | 808368-WOOD-IA-SC-FG-I6-9004 |  |            |              |  |
| DATUM          | ETRS 89                      |  | PROJECTION | UTM Zone 30N |  |
| SCALE          | 1:550,000                    |  | PAGE SIZE  | A3           |  |

|               |            |  |  |  |  |
|---------------|------------|--|--|--|--|
| PROJECT TITLE | MarramWind |  |  |  |  |
|---------------|------------|--|--|--|--|

|               |                                                     |  |  |  |  |
|---------------|-----------------------------------------------------|--|--|--|--|
| DRAWING TITLE | Figure 5.13.1 Infrastructure and other marine users |  |  |  |  |
|---------------|-----------------------------------------------------|--|--|--|--|

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NOT TO BE USED FOR NAVIGATION



# MarramWind

A joint venture between ScottishPower and Shell UK

