



# **Spiorad na Mara Offshore Wind Farm**

## **Offshore Project**

### **Environmental Impact Assessment Report**

#### **Chapter 13: Marine Mammals - Figures, Volume 2b**

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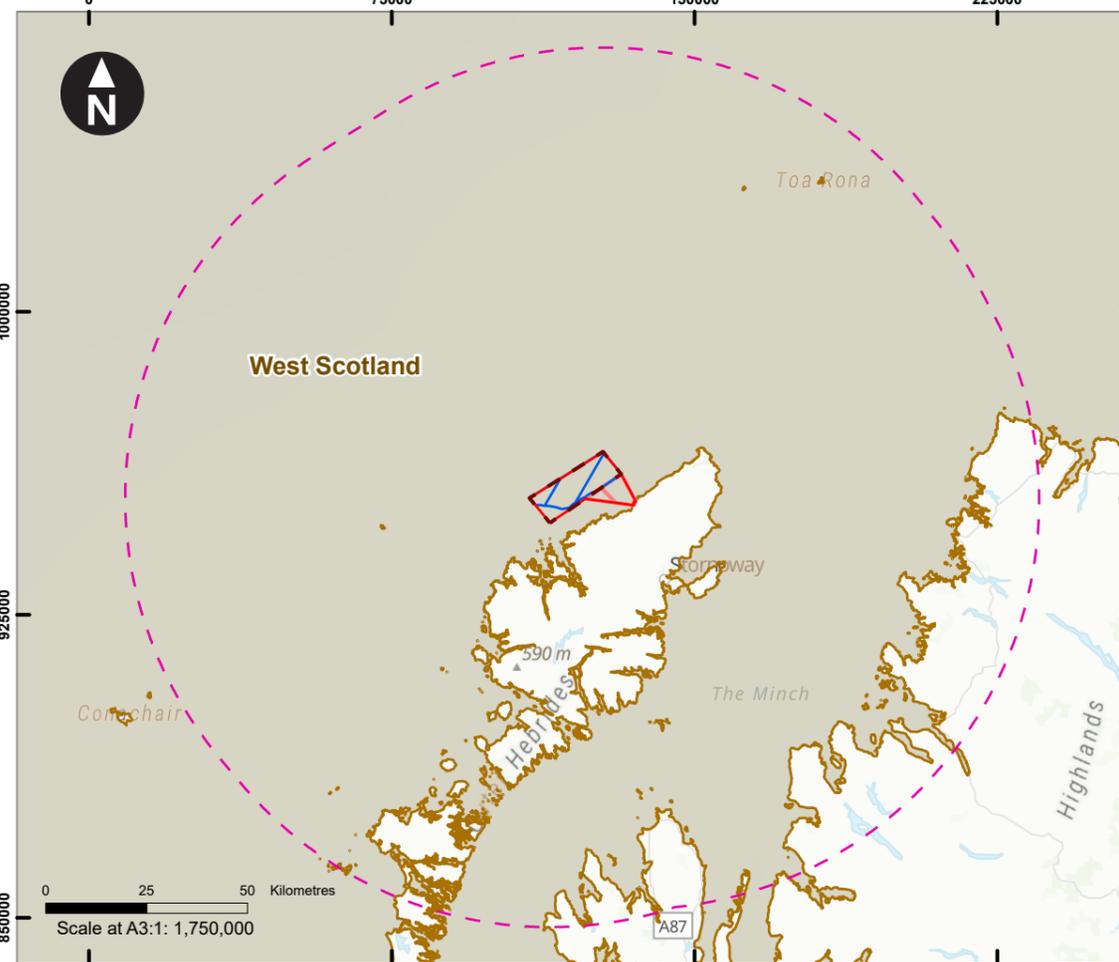
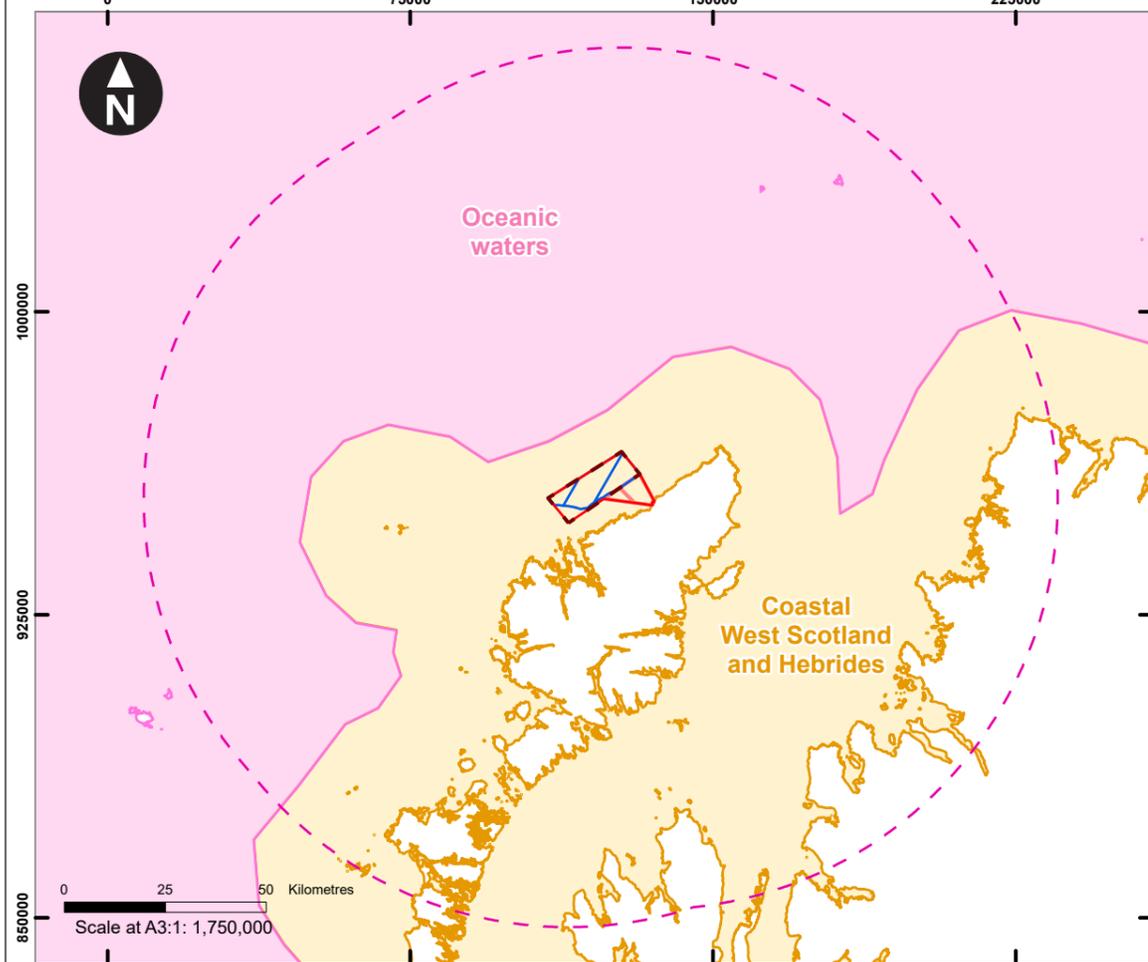
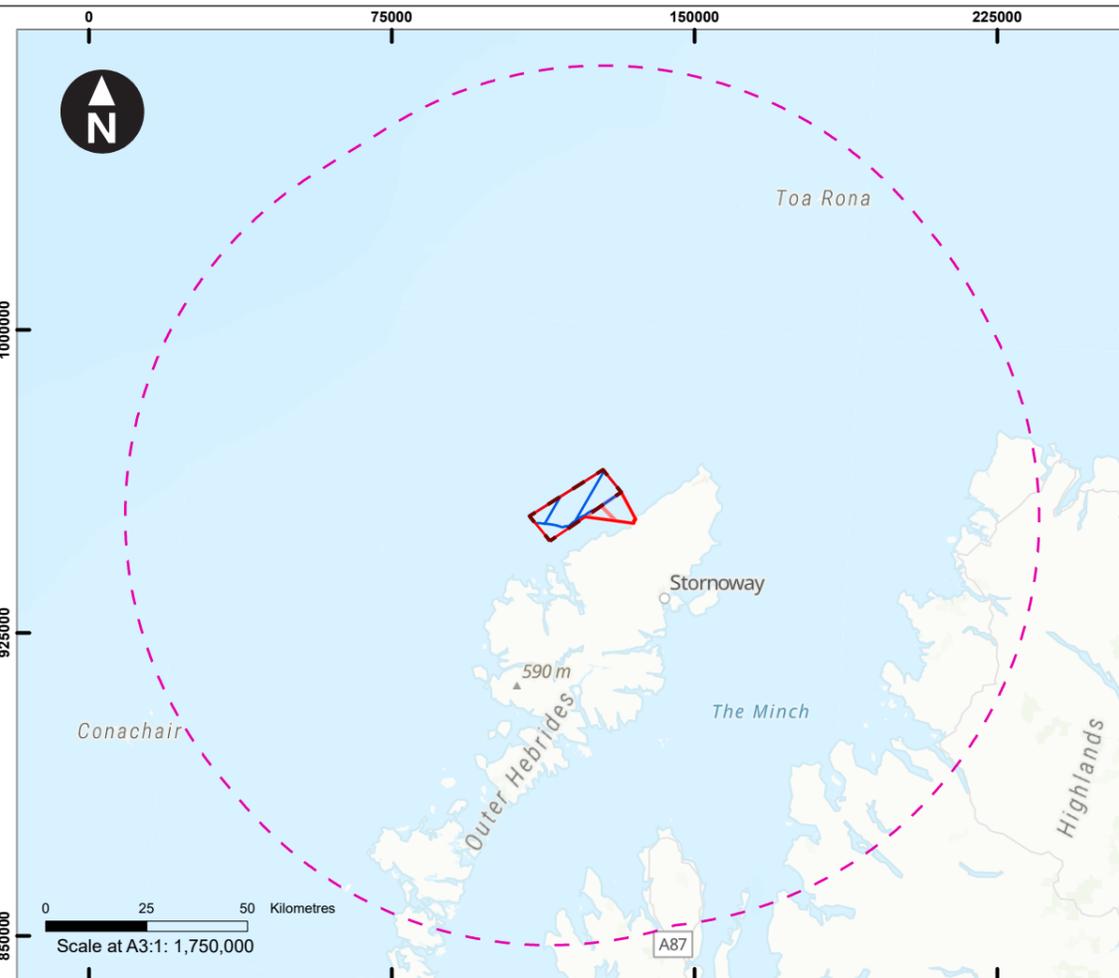
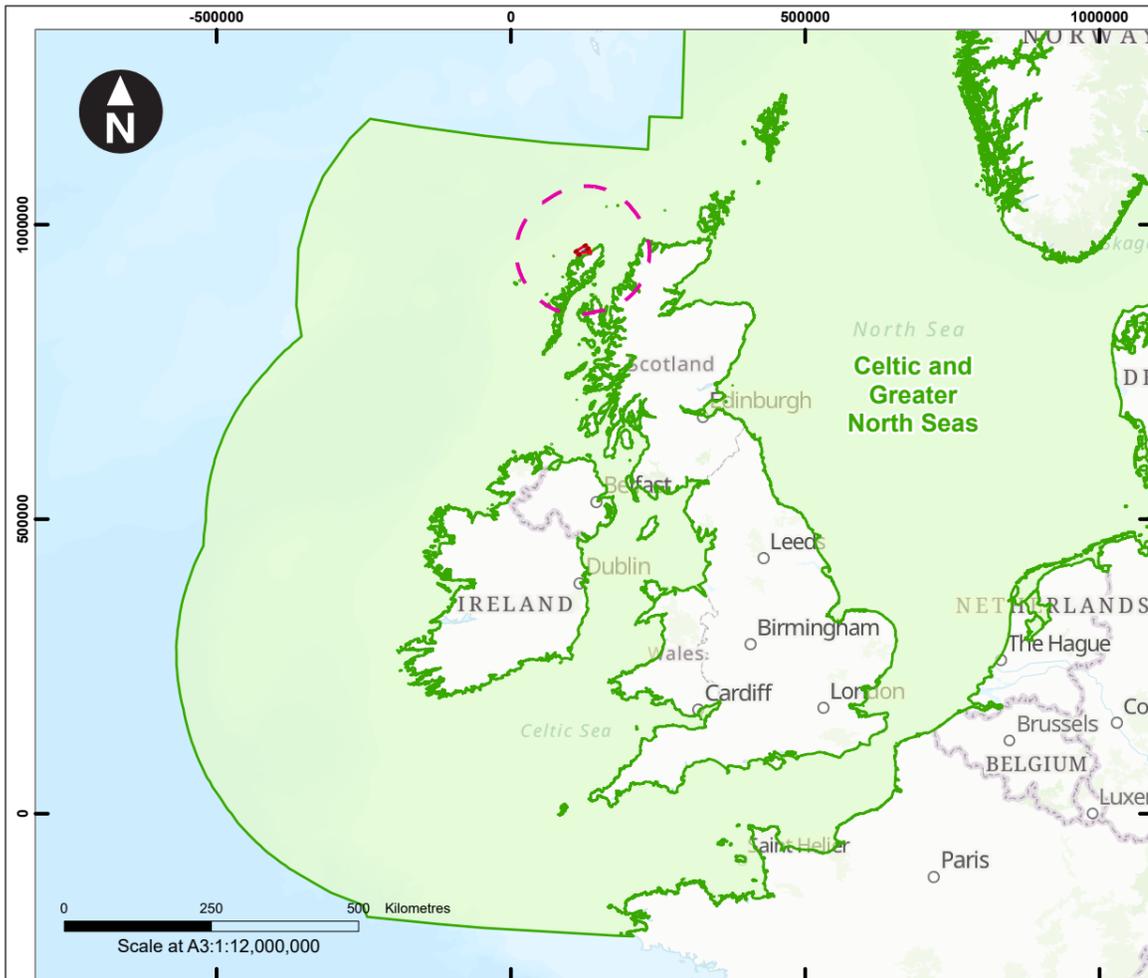
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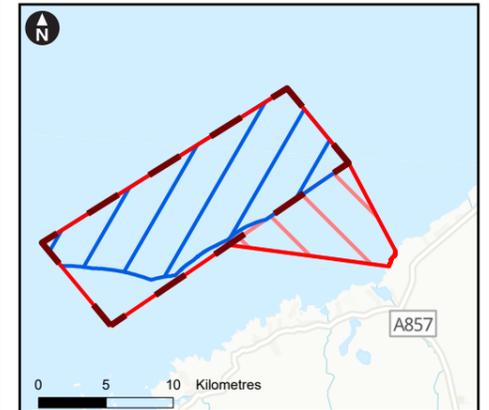
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- Key**
- Offshore Project Boundary
  - Offshore Cable Area of Search
  - Array Area
  - Turbine Area
  - Study Area
- Grey and Harbour Seal Management Units**
- North Coast and Orkney
  - Western Isles
  - Western Scotland
- Bottlenose Dolphin Management Units**
- Coastal West Scotland and Hebrides
  - Oceanic waters
- Harbour Porpoise Management Unit**
- West Scotland
- Common Dolphin, White-beaked Dolphin, White-sided Dolphin, Risso's Dolphin and Minke Whale Management Unit**
- Celtic and Greater North Seas



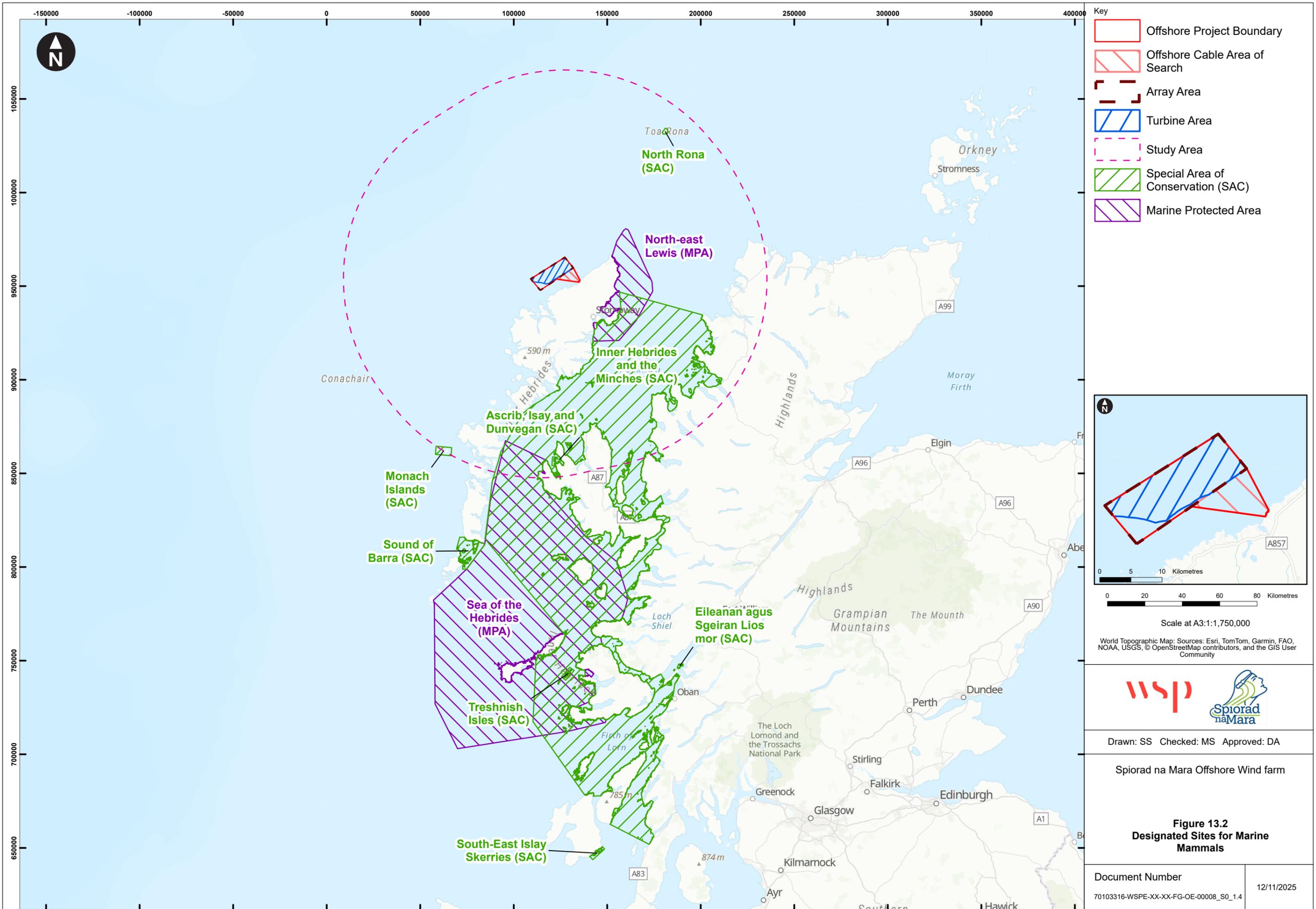
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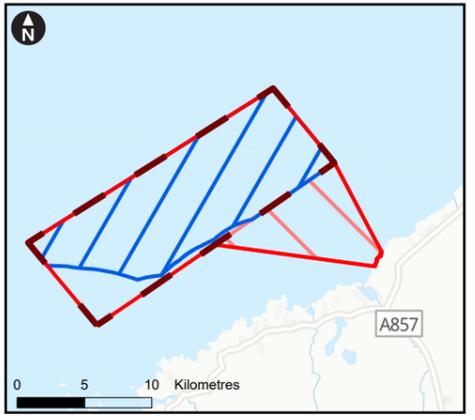
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**Figure 13.1**  
**Location of Marine Mammal Study Area and Marine Mammal Management Units in Relation to the Project**



- Key**
- Offshore Project Boundary
  - Offshore Cable Area of Search
  - Array Area
  - Turbine Area
  - Study Area
  - Special Area of Conservation (SAC)
  - Marine Protected Area



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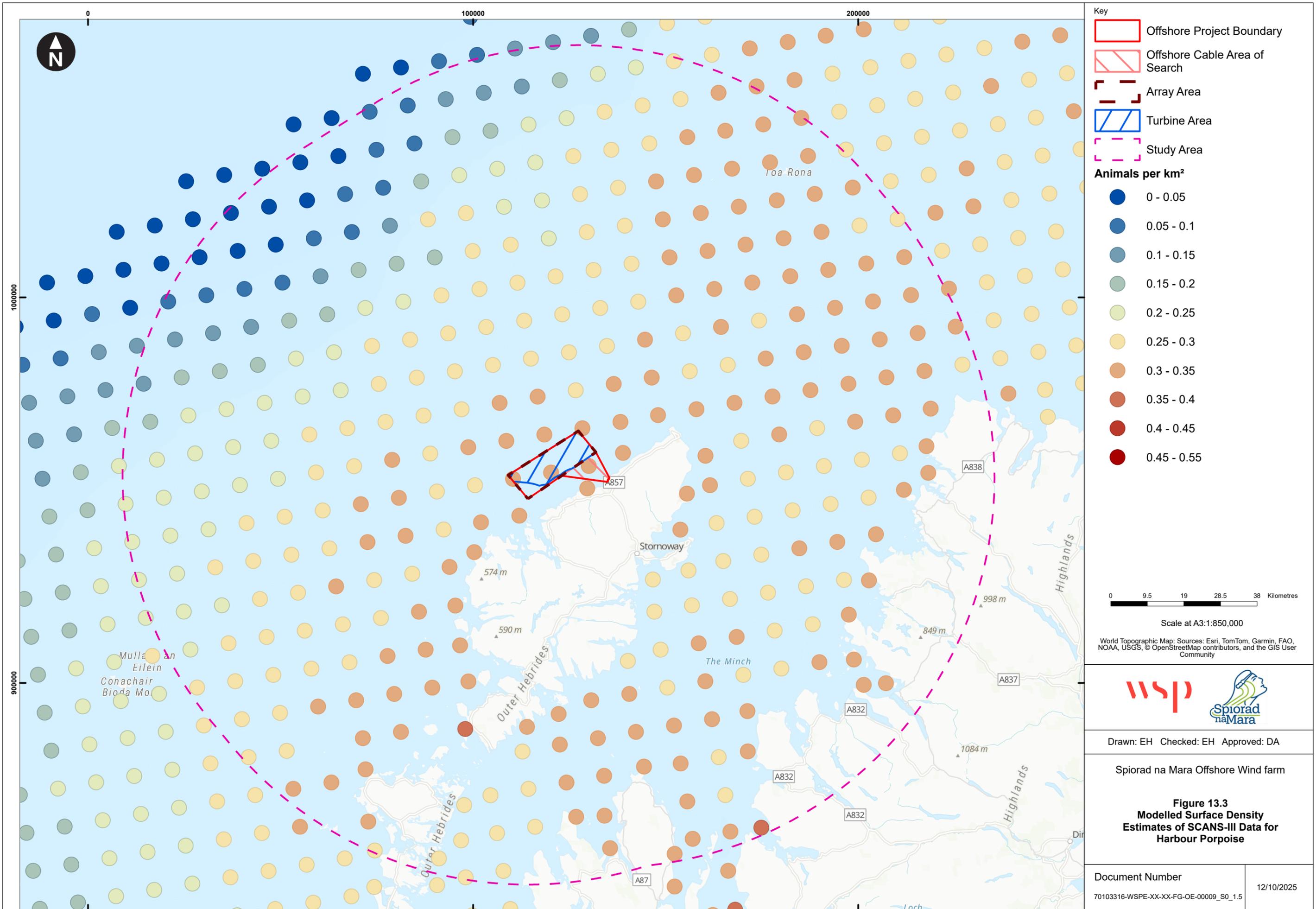
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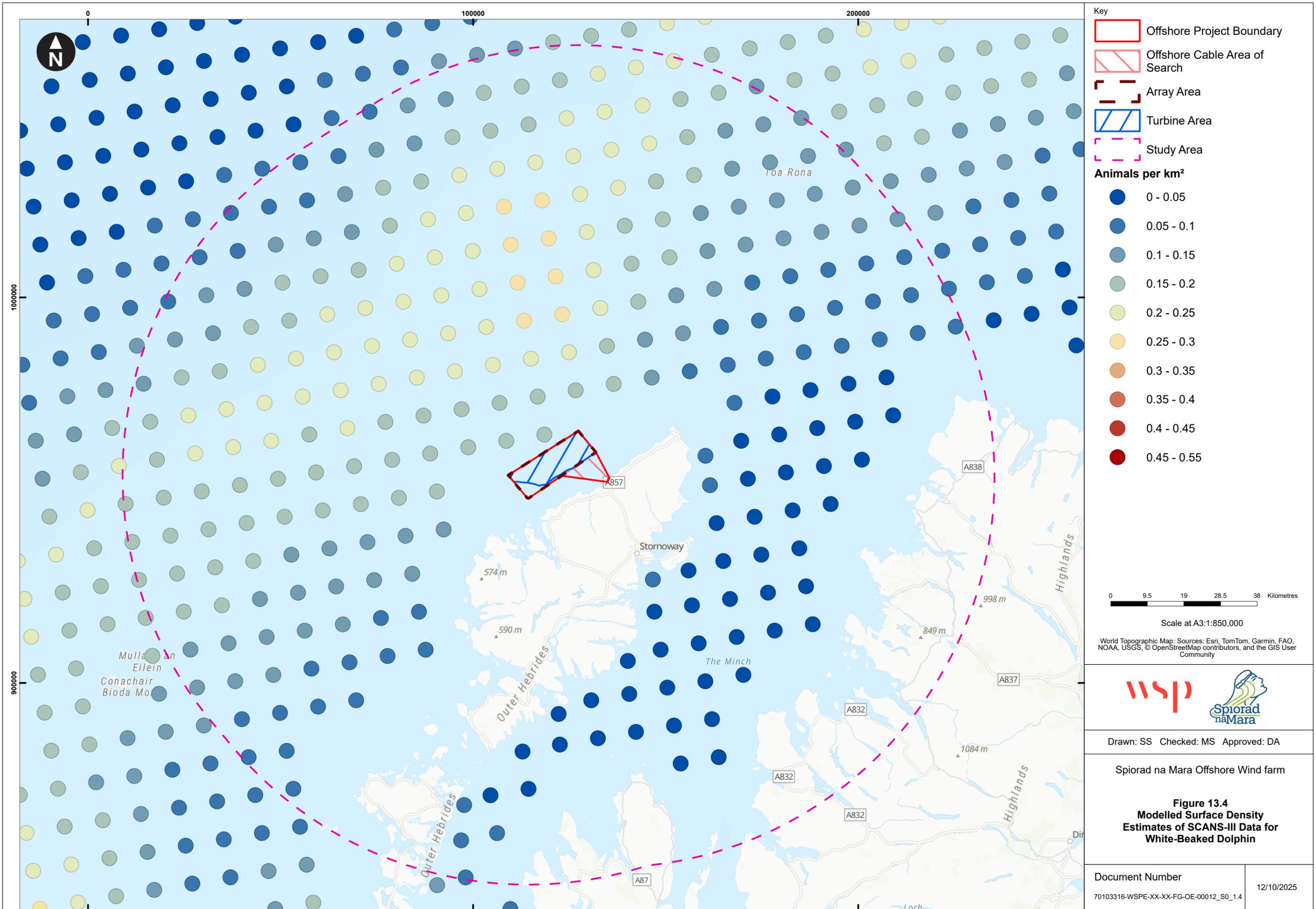


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**Figure 13.2**  
Designated Sites for Marine Mammals





**Key**

- Offshore Project Boundary
- Offshore Cable Area of Search
- Array Area
- Turbine Area
- Study Area

**Animals per km<sup>2</sup>**

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.25
- 0.25 - 0.3
- 0.3 - 0.35
- 0.35 - 0.4
- 0.4 - 0.45
- 0.45 - 0.55



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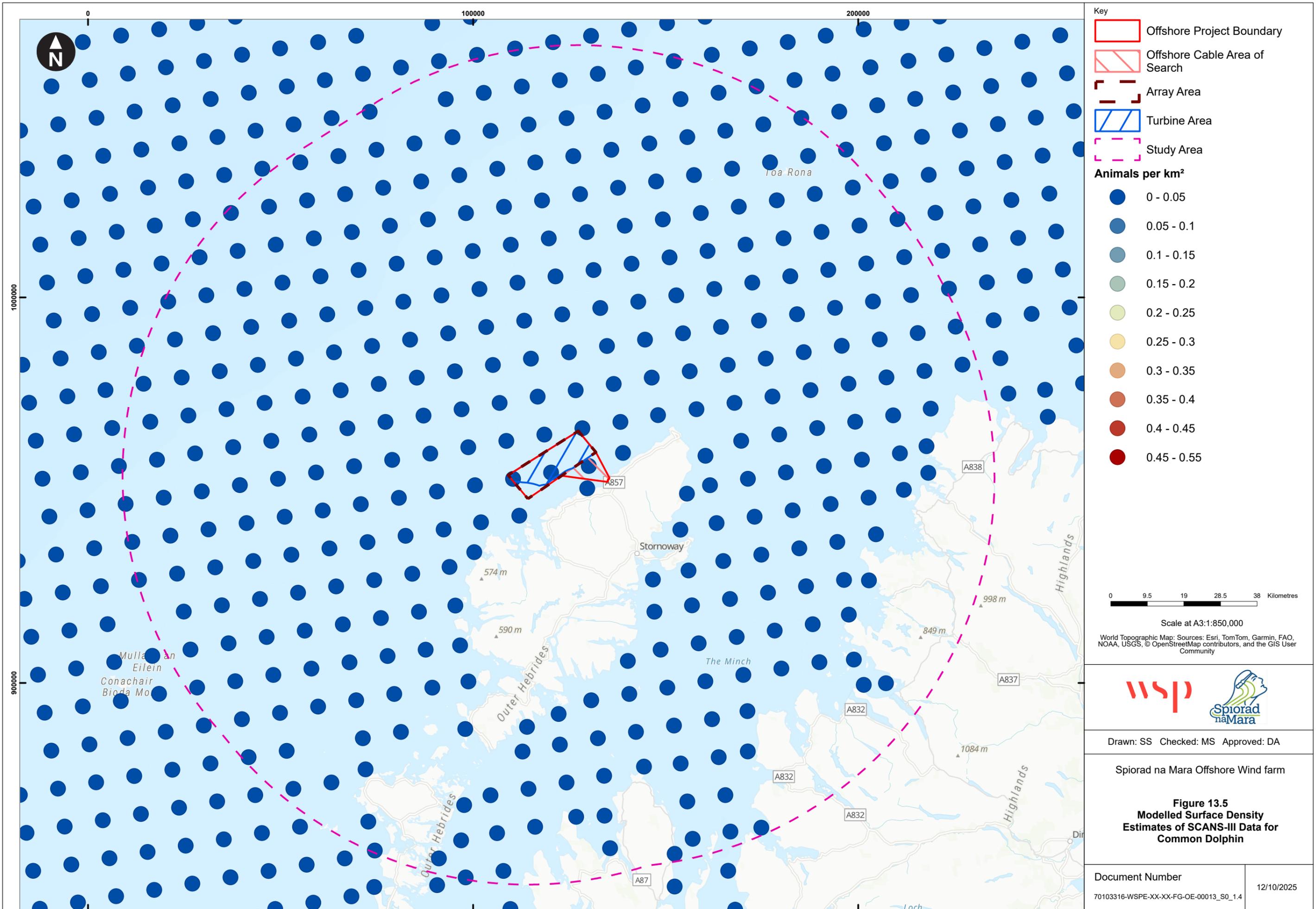
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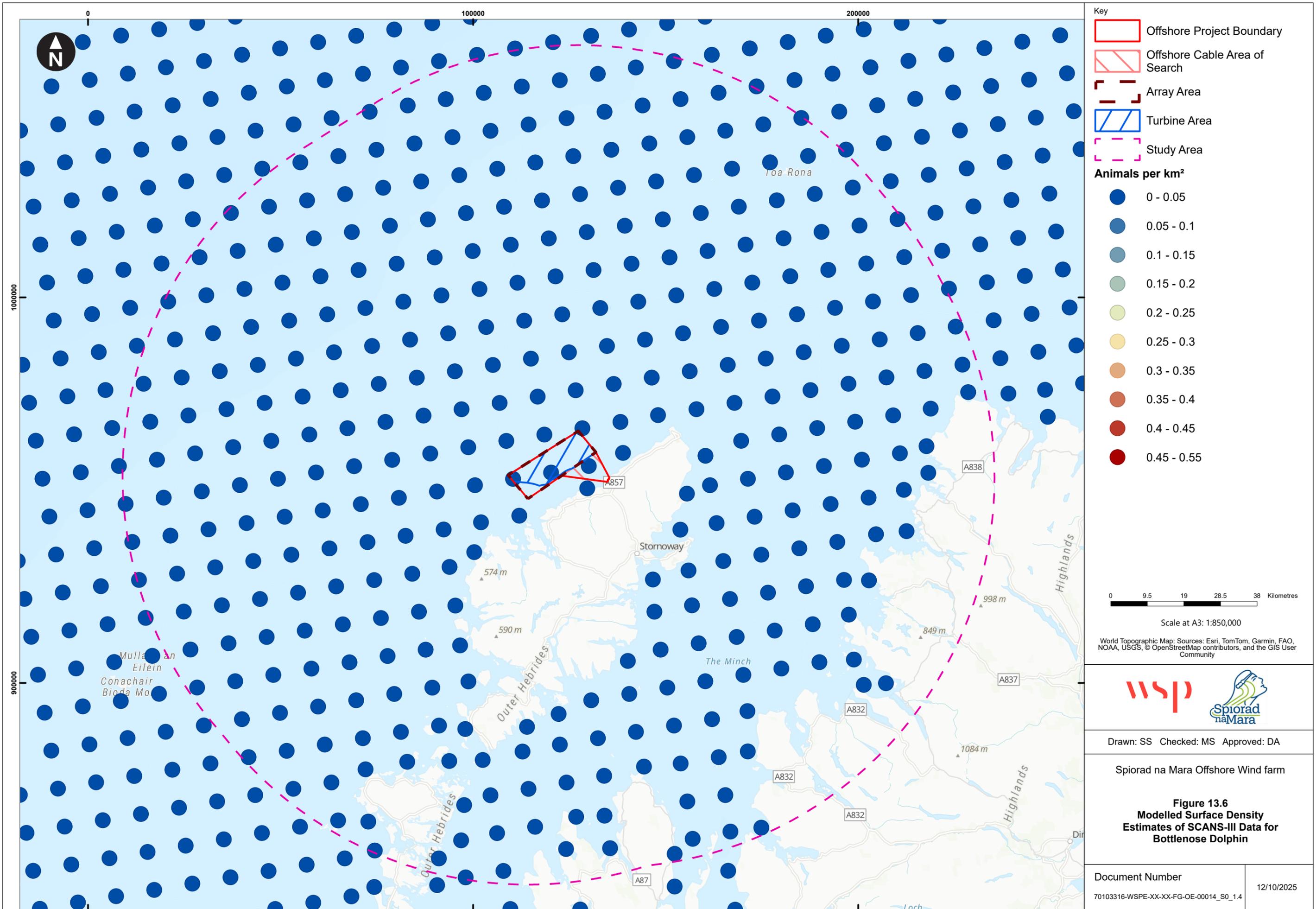


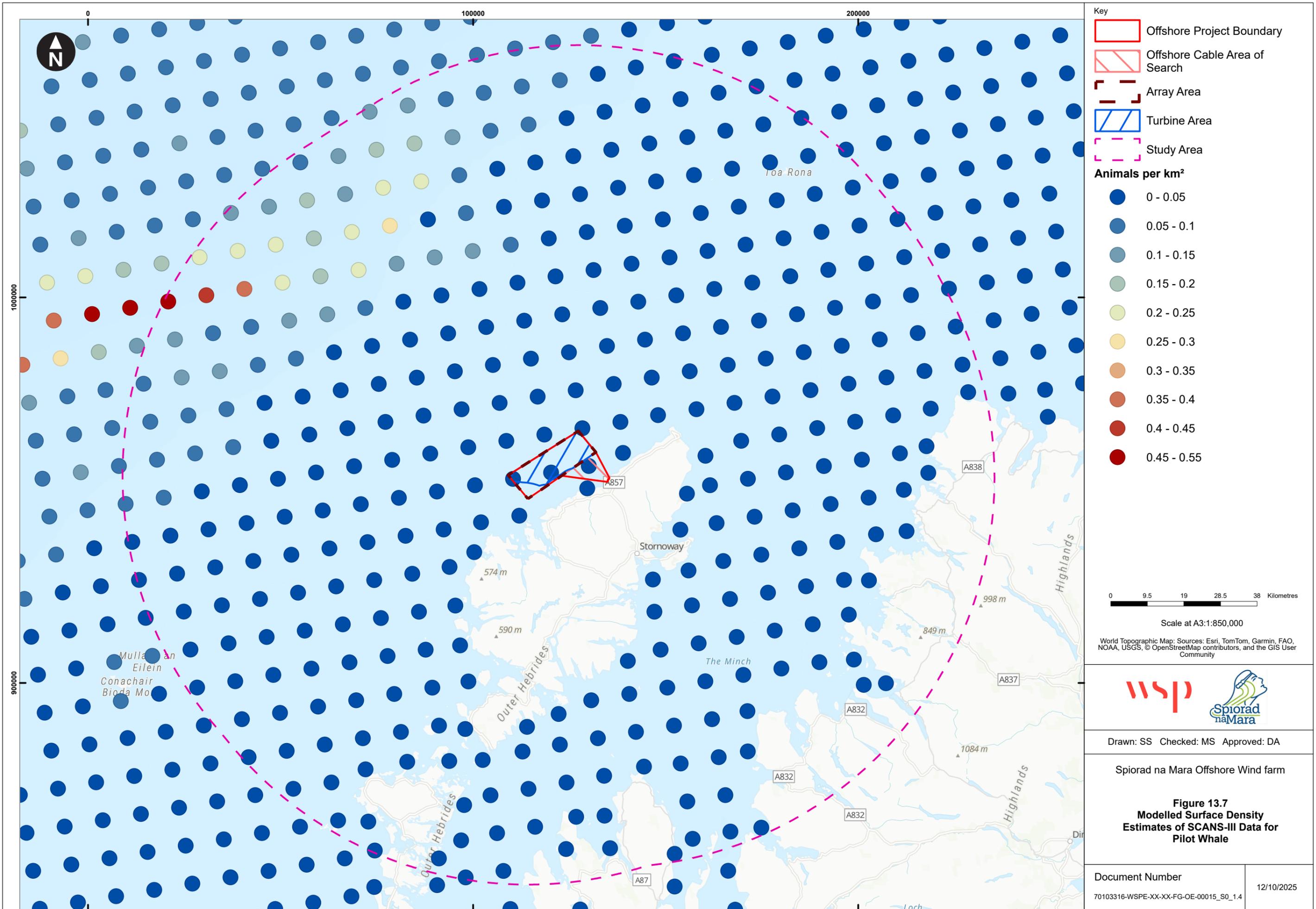
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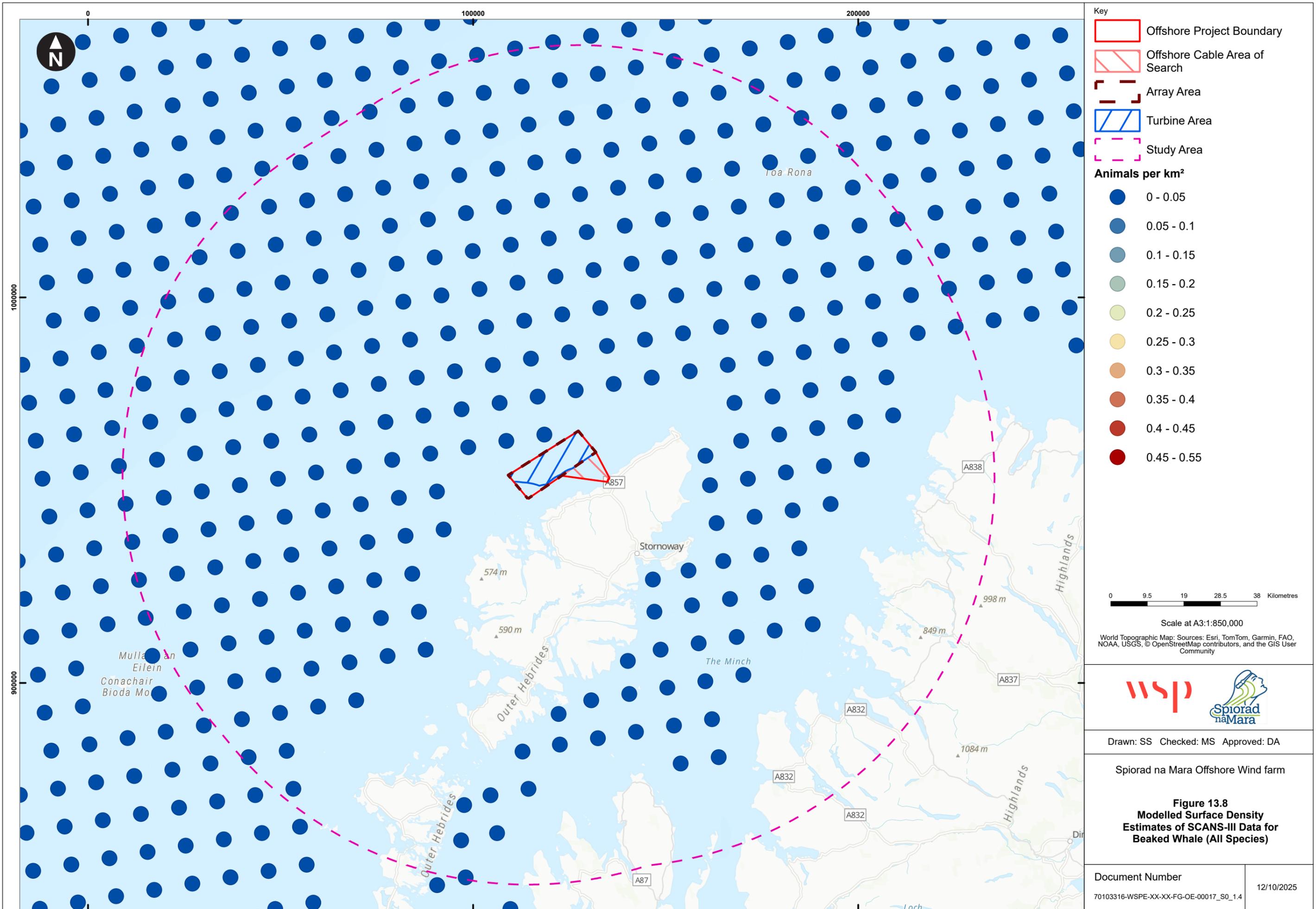
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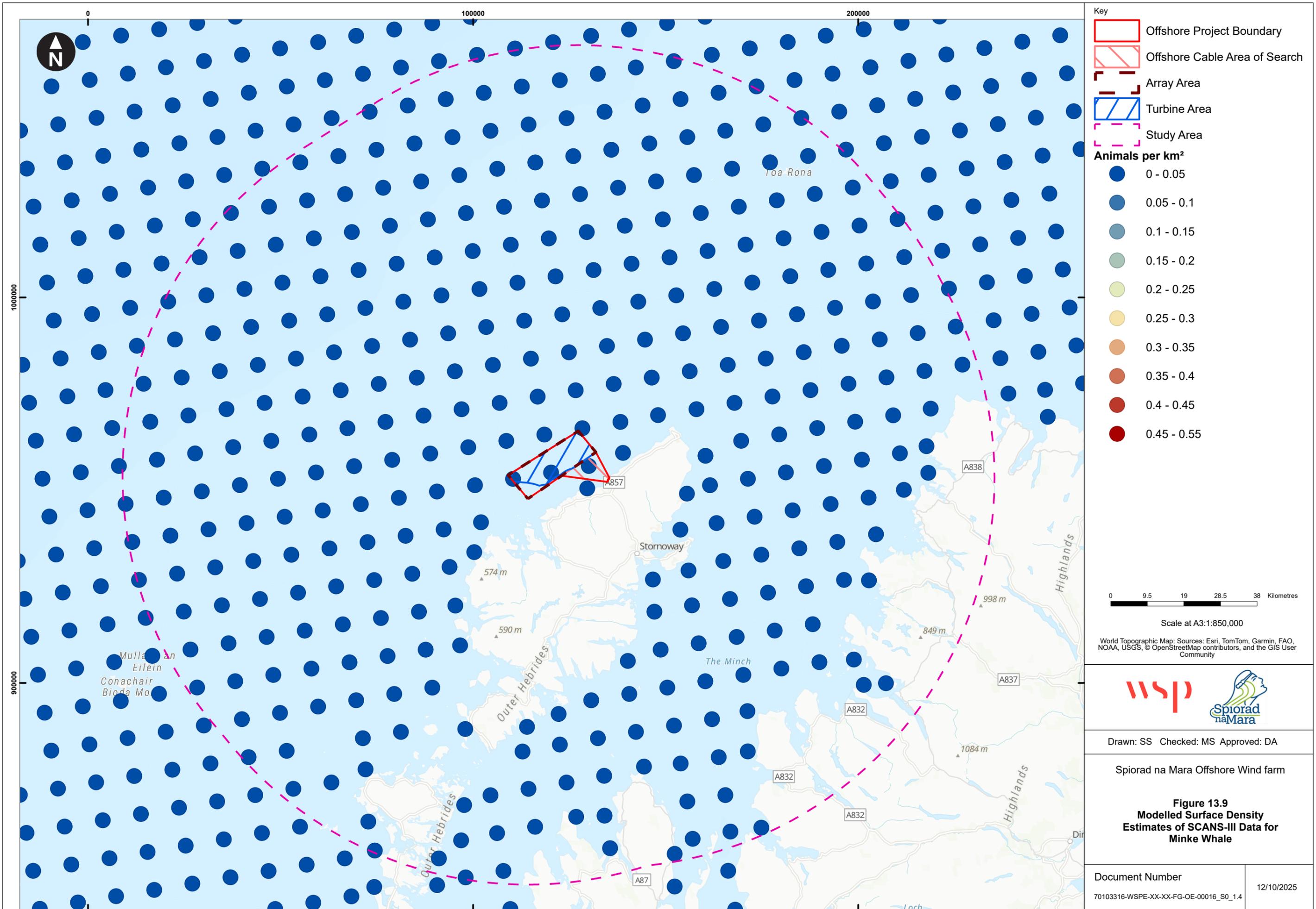
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**Estimates of SCANS-III Data for**  
**White-Beaked Dolphin**

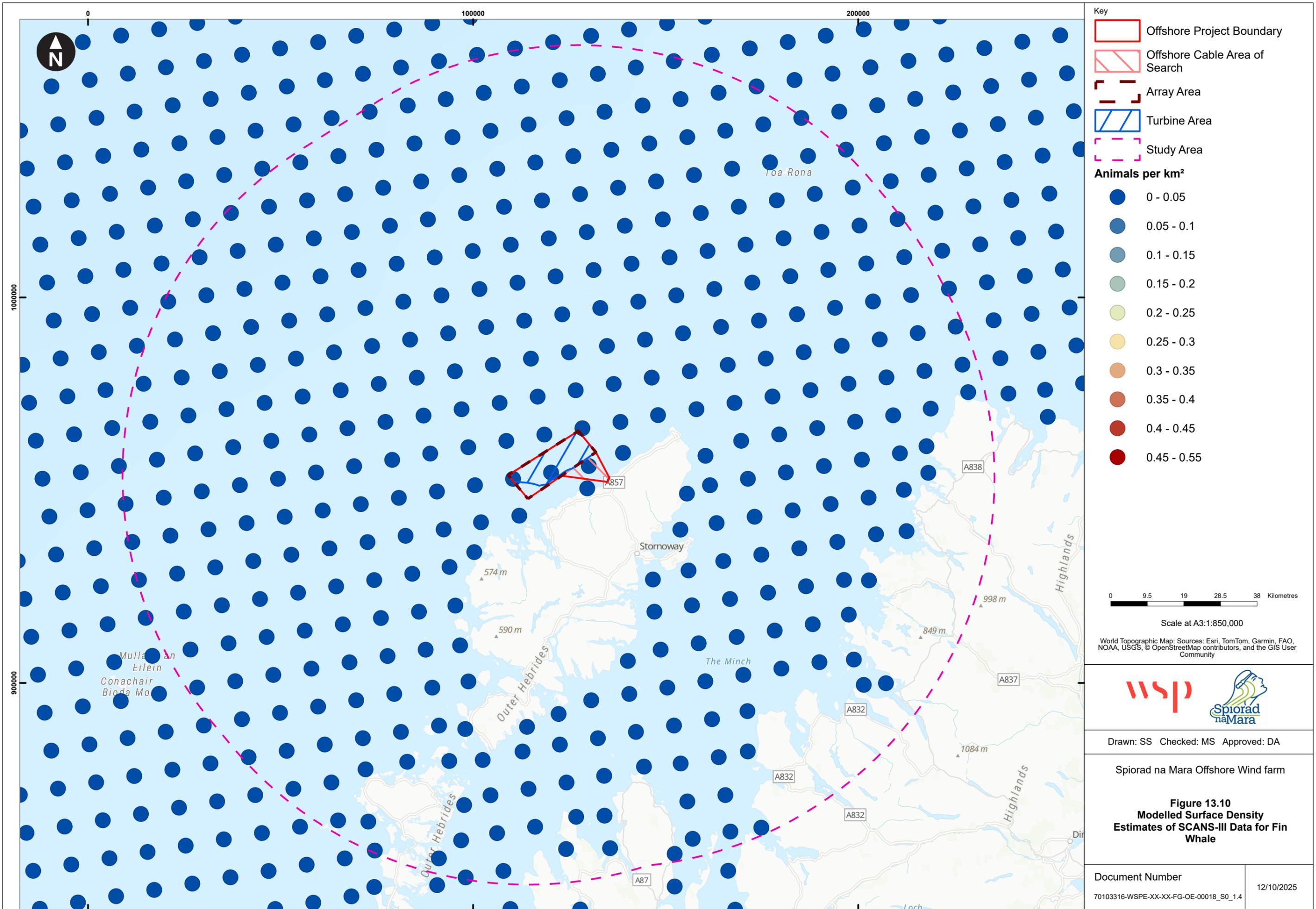












**Key**

- Offshore Project Boundary
- Offshore Cable Area of Search
- Array Area
- Turbine Area
- Study Area

**Animals per km<sup>2</sup>**

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.25
- 0.25 - 0.3
- 0.3 - 0.35
- 0.35 - 0.4
- 0.4 - 0.45
- 0.45 - 0.55



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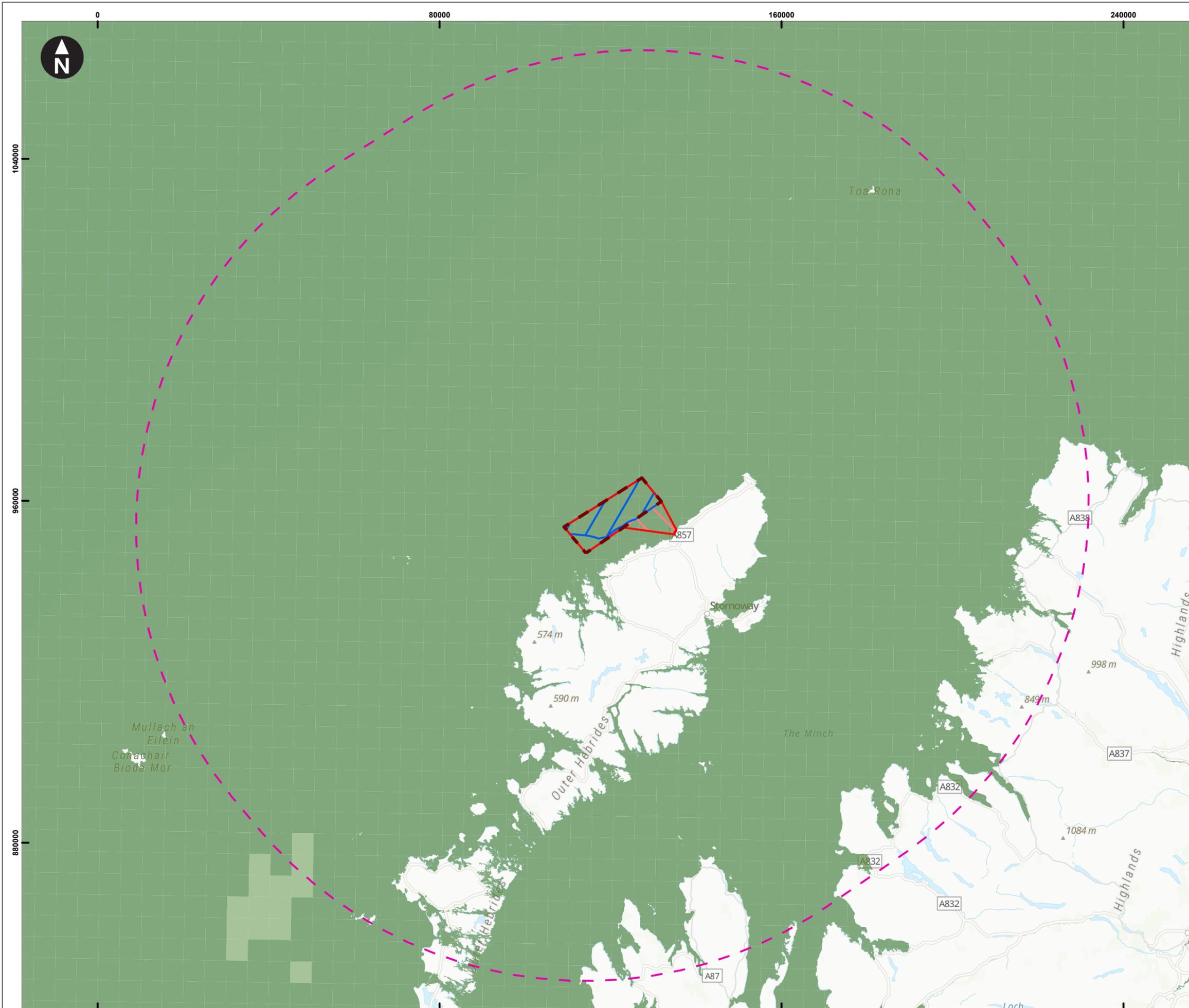
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**Figure 13.10**  
**Modelled Surface Density**  
**Estimates of SCANS-III Data for Fin**  
**Whale**



**Key**

- Offshore Project Boundary
- Offshore Cable Area of Search
- Array Area
- Turbine Area
- Study Area

**Grey Seals % At-Sea Population Per 25km<sup>2</sup>**

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.25
- 0.25 - 0.3
- 0.3 - 0.35

Please note: This map represents predicted seal distribution from haul-outs in the British Isles only and does not include seals hauling-out elsewhere



Scale at A3:1:850,000

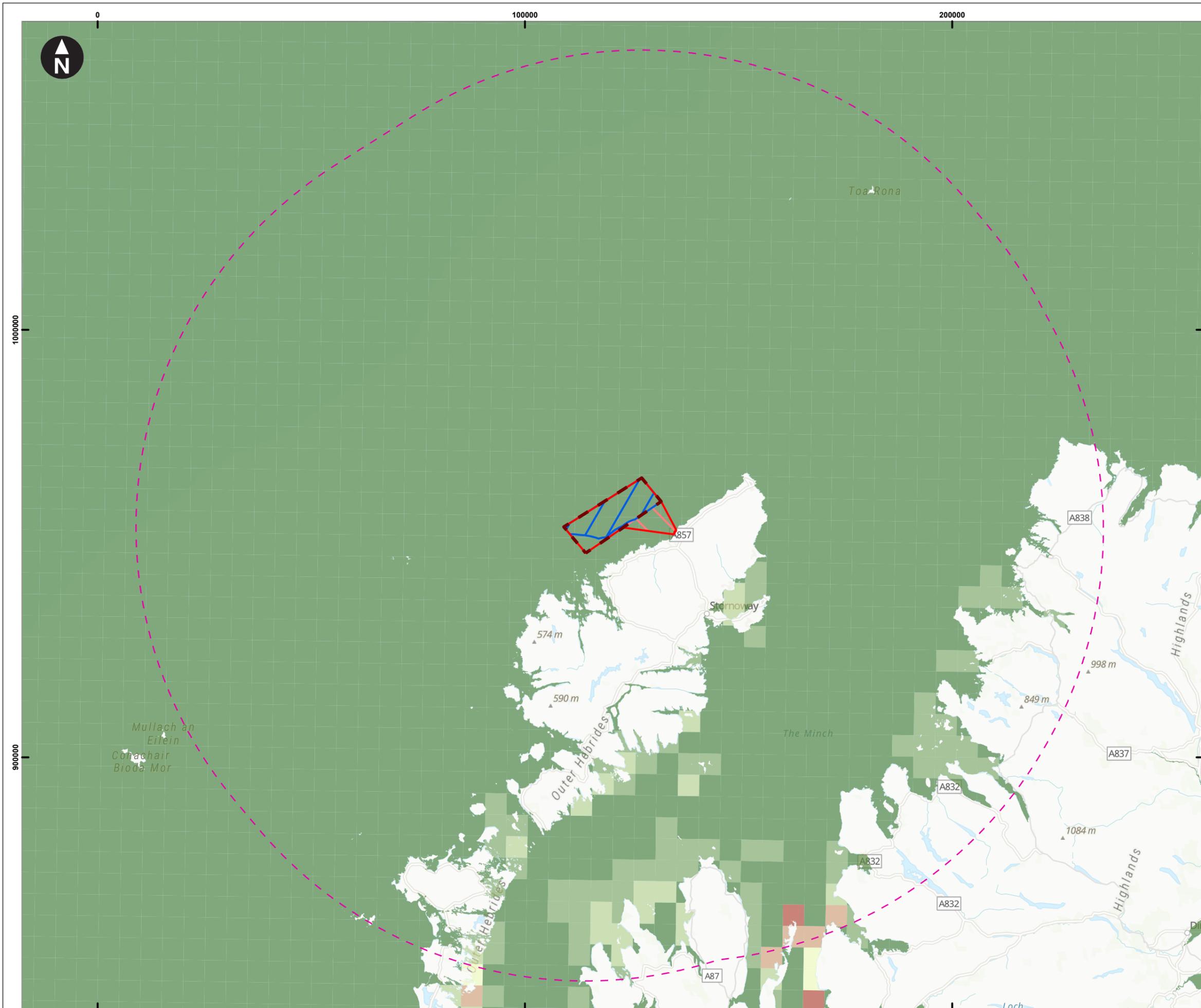
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**Figure 13.11**  
**Mean At-sea Distribution (Relative Density) of Grey Seals from Haul-outs in the UK and Ireland**



**Key**

- Offshore Project Boundary
- Offshore Cable Area of Search
- Array Area
- Turbine Area
- Study Area

**Harbour Seals % At-Sea Population Per 25km<sup>2</sup>**

- 0- 0.05
- 0.05 - 0.1
- 0.1 - 0.15
- 0.15 - 0.2
- 0.2 - 0.25
- 0.25 - 0.3
- 0.3 - 0.35

Please note: This map represents predicted seal distribution from haul-outs in the British Isles only and does not include seals hauling-out elsewhere



Scale at A3:1:850,000

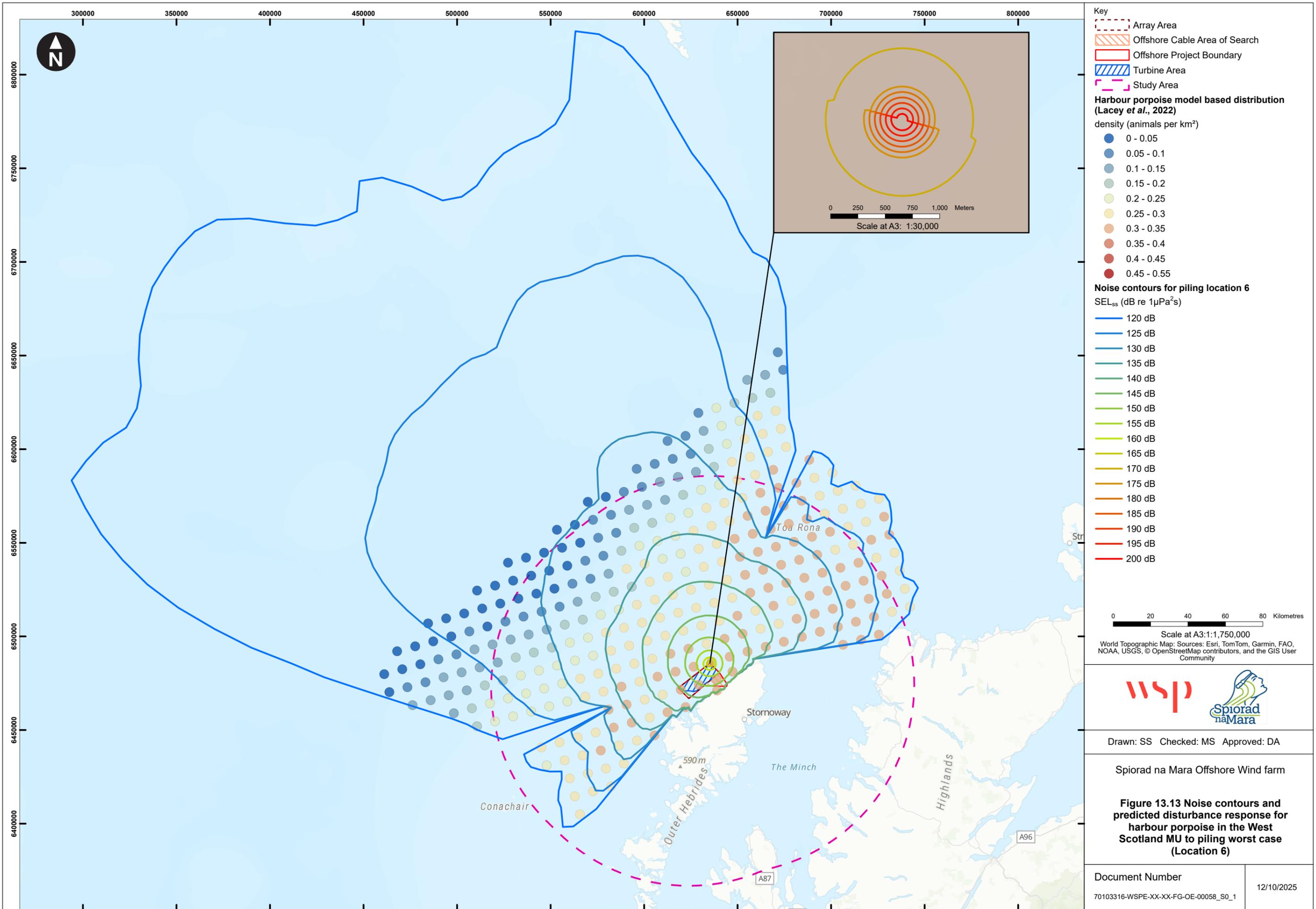
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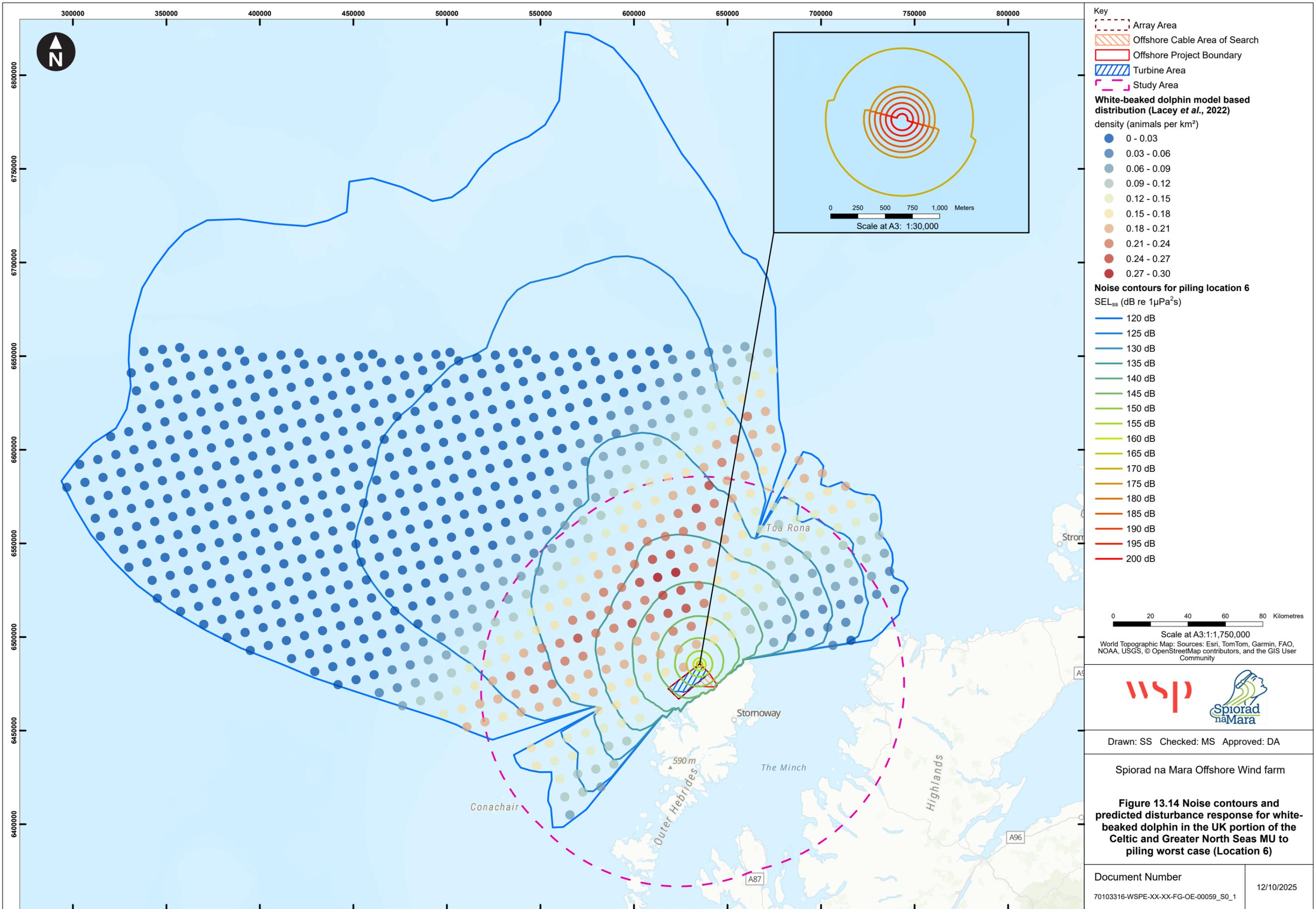


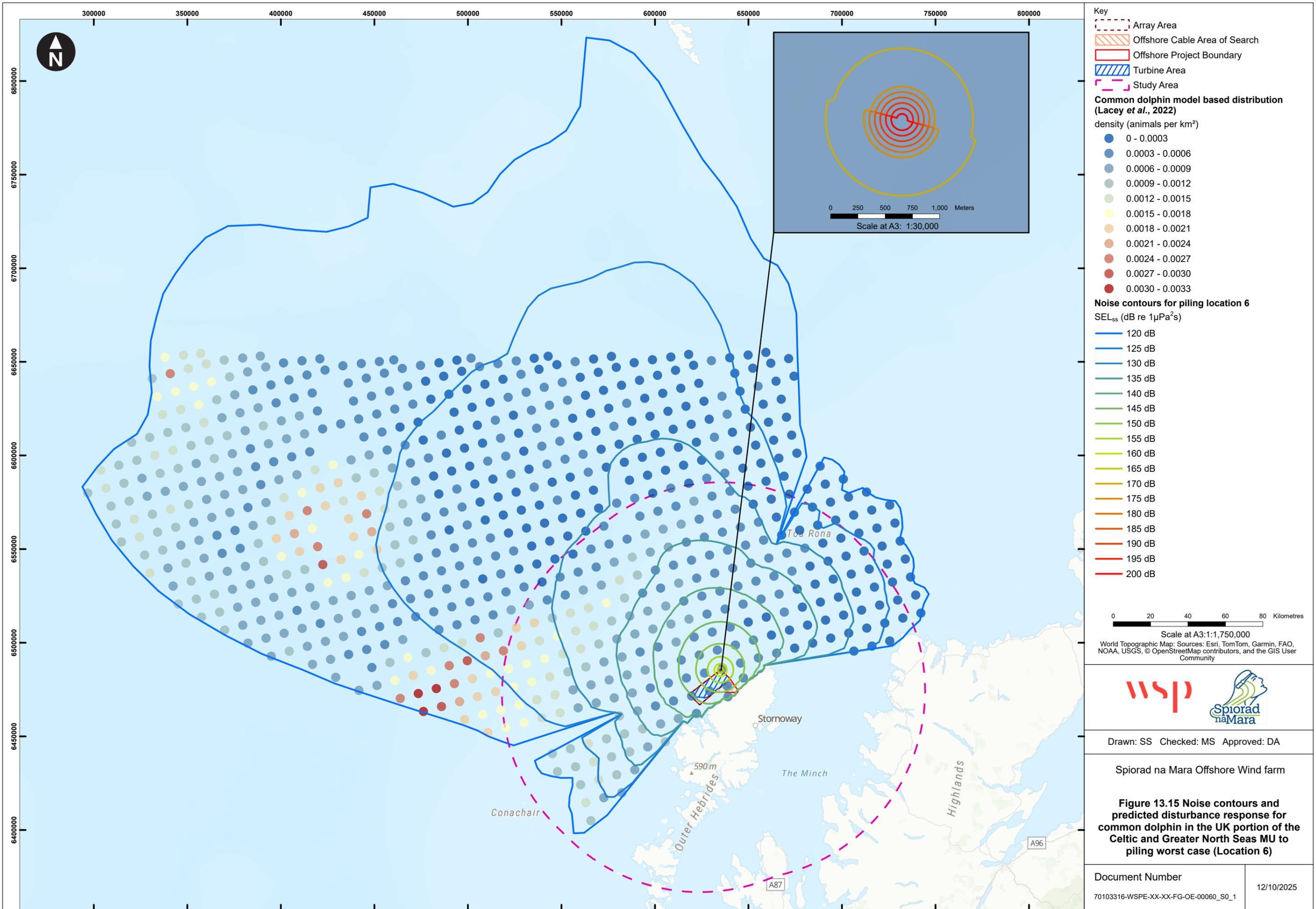
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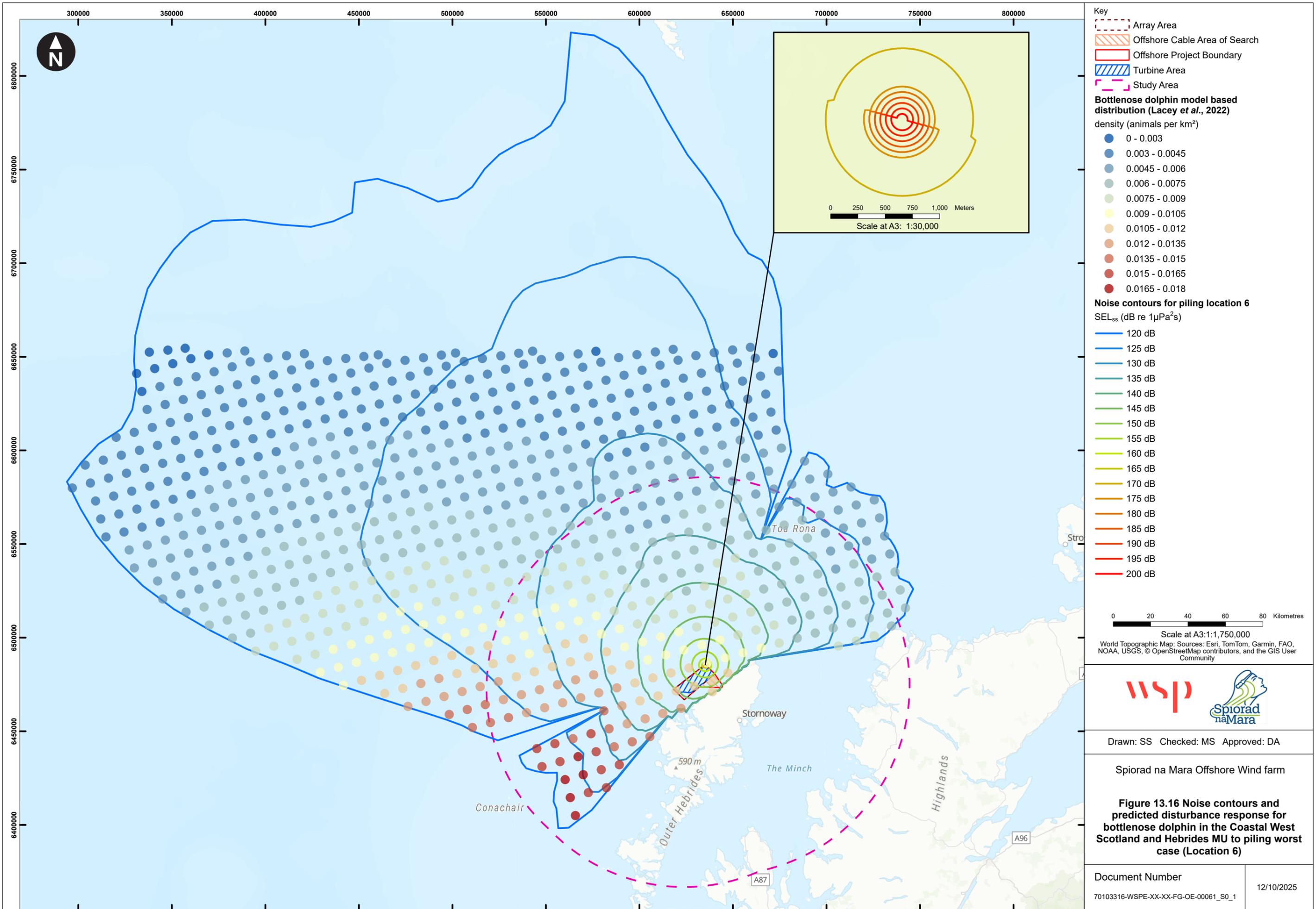
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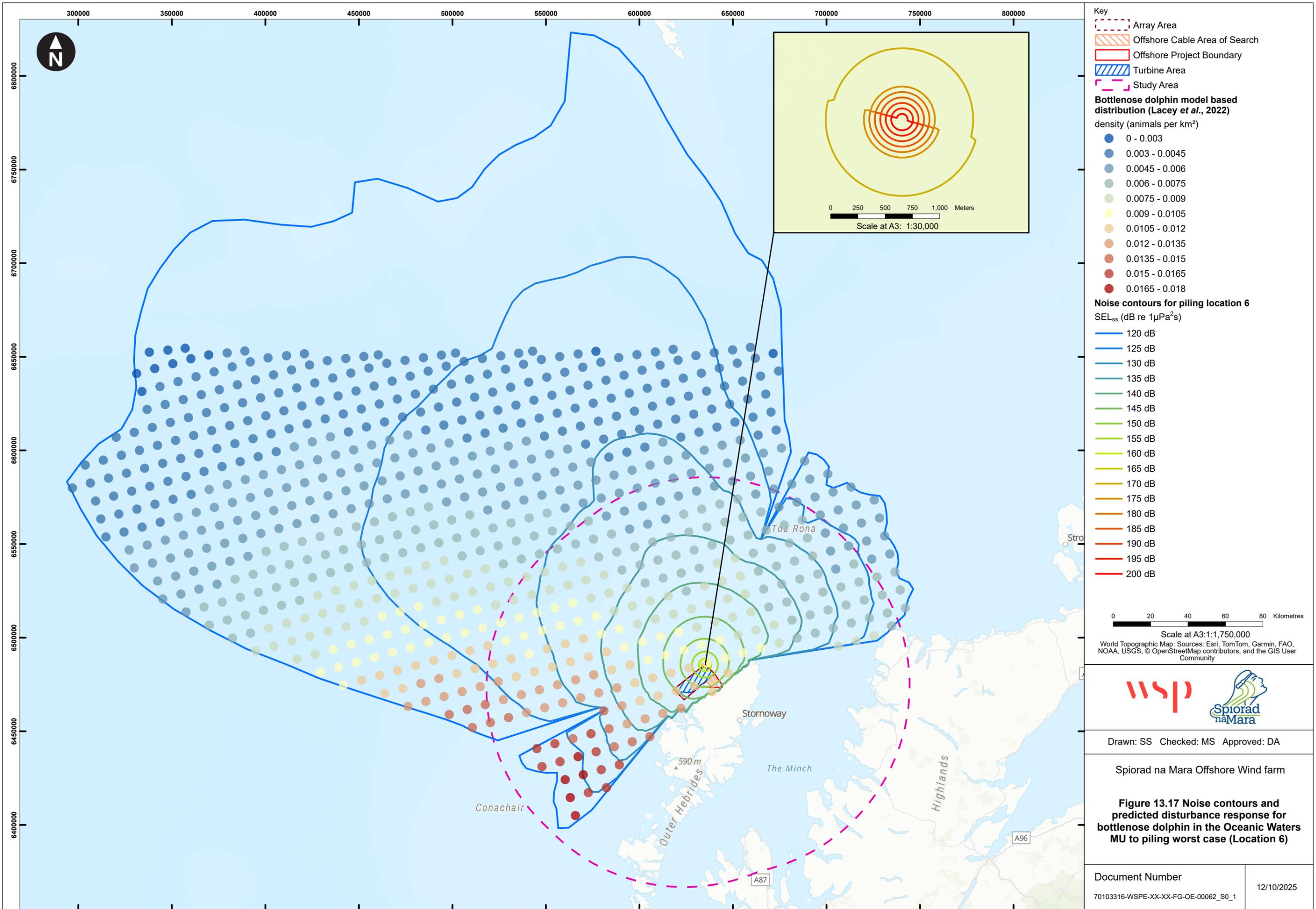
**Figure 13.12**  
**Mean At-sea Distribution (Relative Density) of Harbour Seals from Haul-outs in the UK and Ireland**

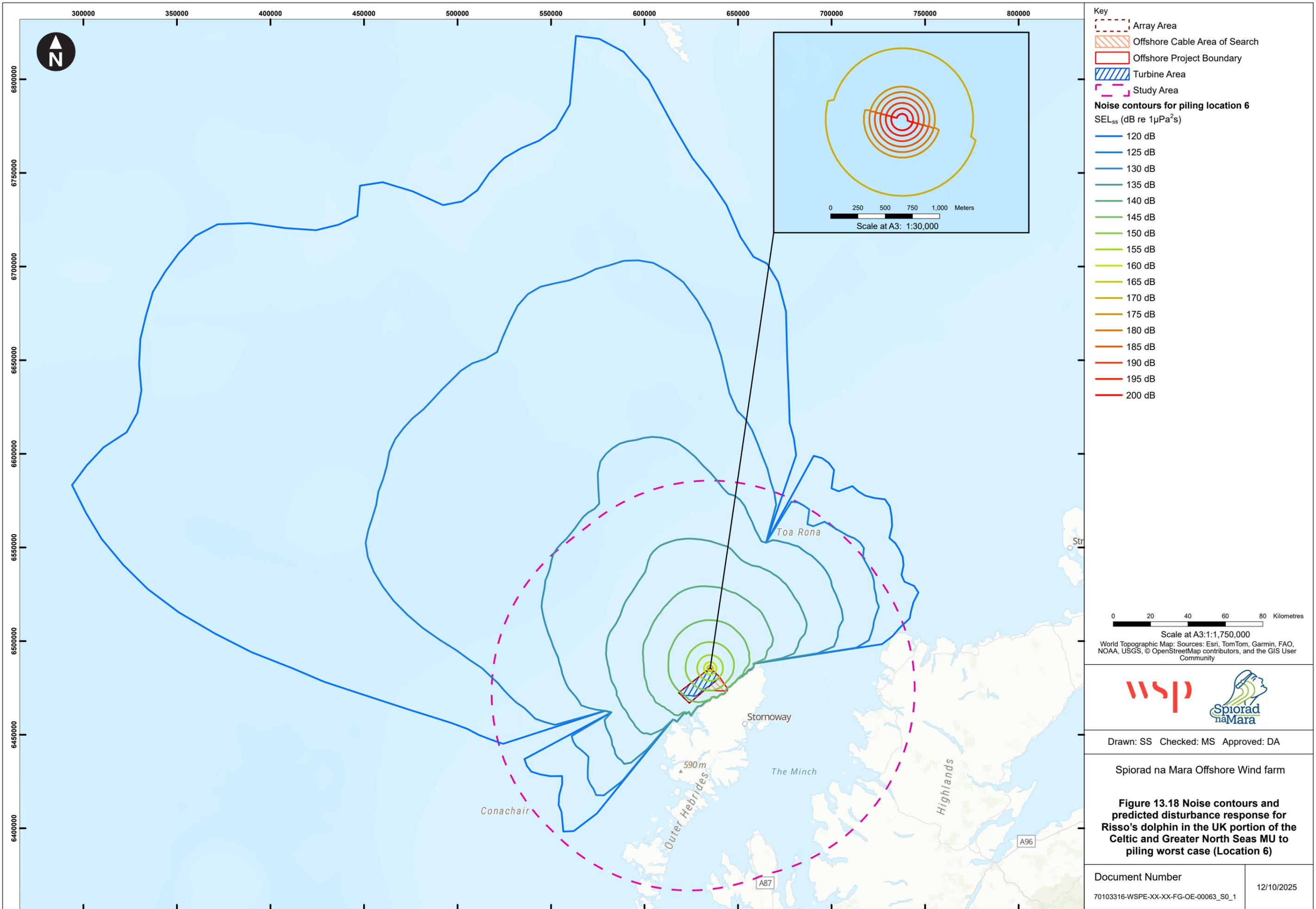


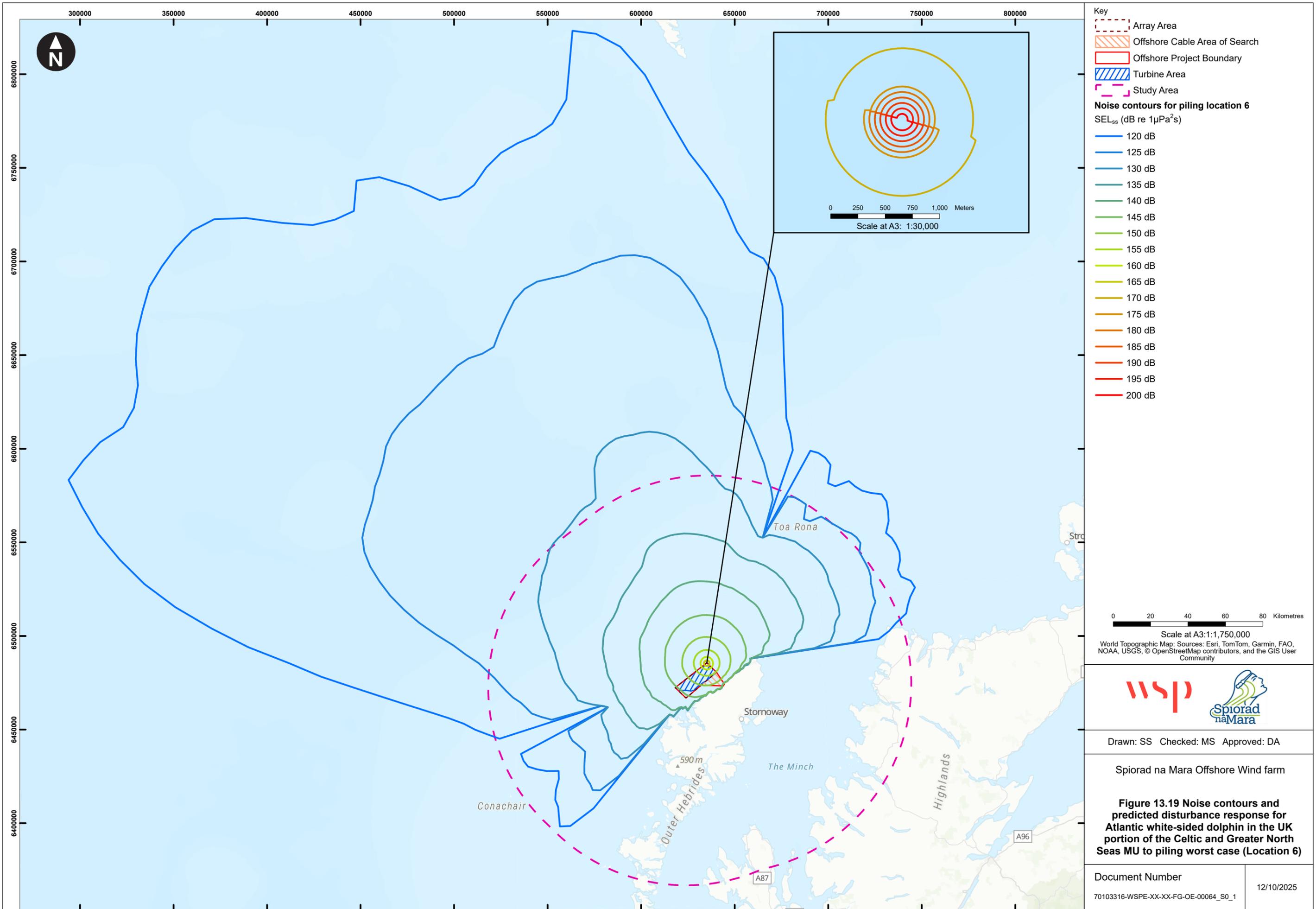












- Key**
- Array Area
  - Offshore Cable Area of Search
  - Offshore Project Boundary
  - Turbine Area
  - Study Area

- Noise contours for piling location 6**  
SEL<sub>ss</sub> (dB re 1μPa<sup>2</sup>s)
- 120 dB
  - 125 dB
  - 130 dB
  - 135 dB
  - 140 dB
  - 145 dB
  - 150 dB
  - 155 dB
  - 160 dB
  - 165 dB
  - 170 dB
  - 175 dB
  - 180 dB
  - 185 dB
  - 190 dB
  - 195 dB
  - 200 dB

0 20 40 60 80 Kilometres

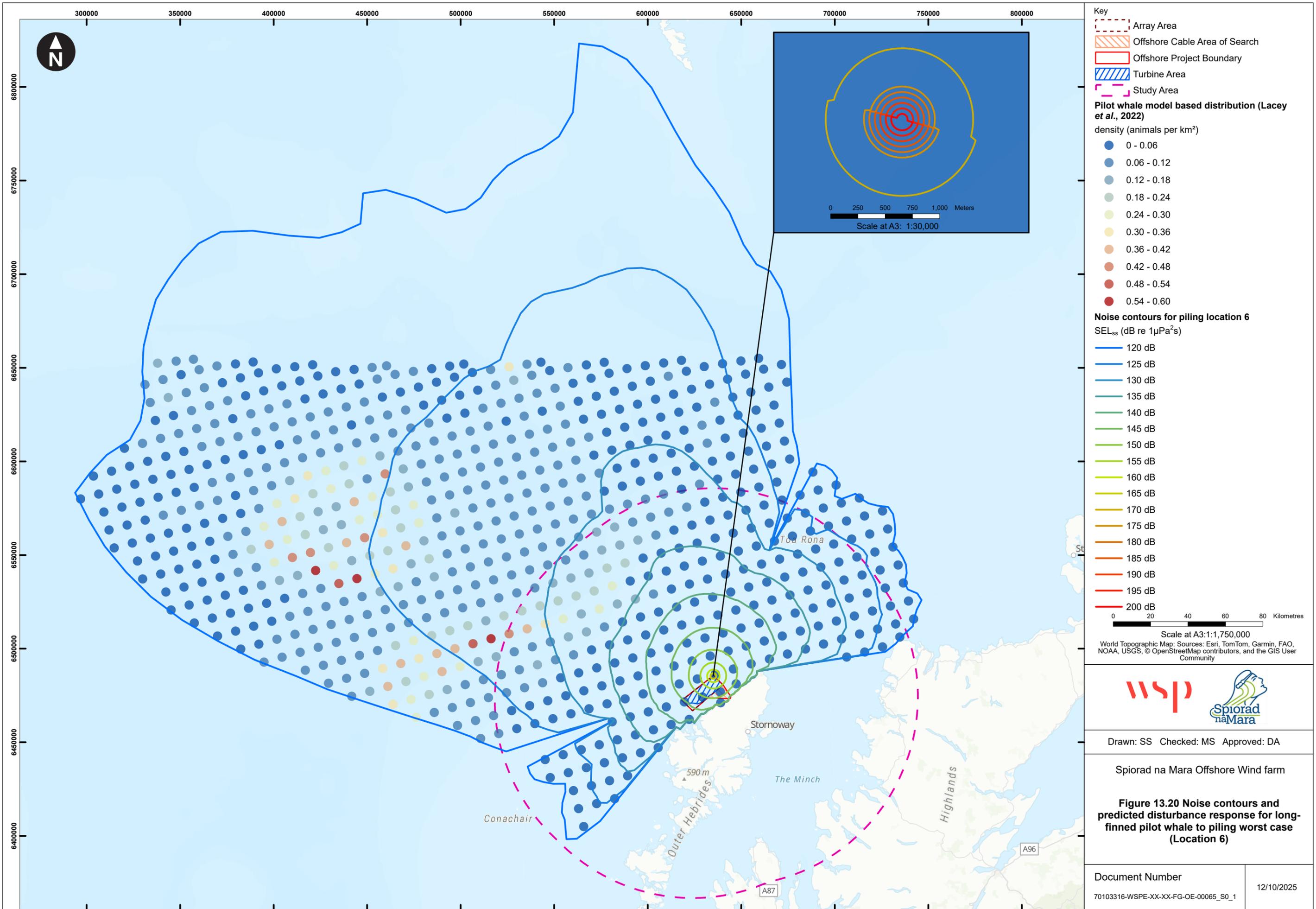
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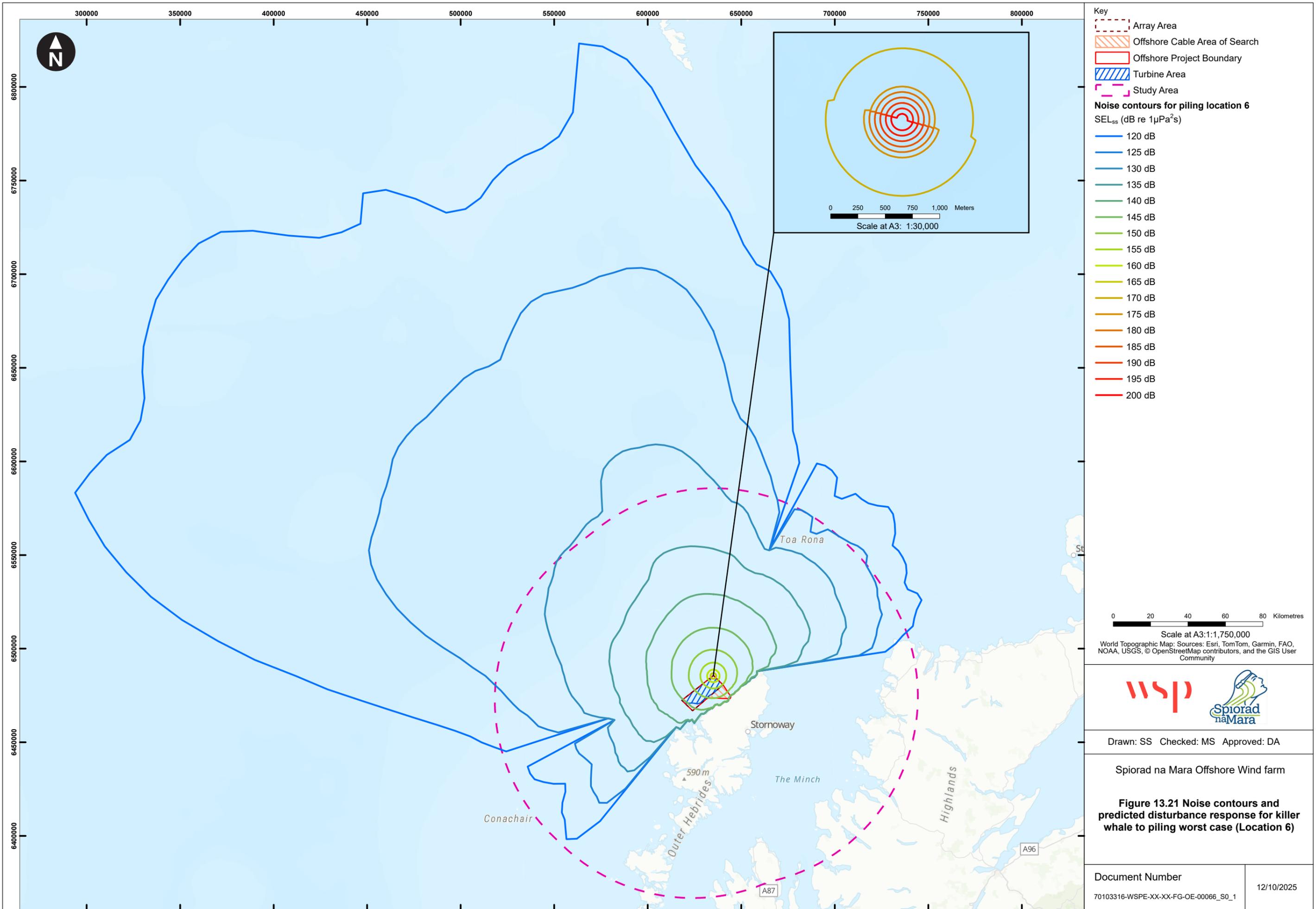


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**Figure 13.19 Noise contours and predicted disturbance response for Atlantic white-sided dolphin in the UK portion of the Celtic and Greater North Seas MU to piling worst case (Location 6)**





- Key**
- Array Area
  - Offshore Cable Area of Search
  - Offshore Project Boundary
  - Turbine Area
  - Study Area

- Noise contours for piling location 6**  
SEL<sub>ss</sub> (dB re 1μPa<sup>2</sup>s)
- 120 dB
  - 125 dB
  - 130 dB
  - 135 dB
  - 140 dB
  - 145 dB
  - 150 dB
  - 155 dB
  - 160 dB
  - 165 dB
  - 170 dB
  - 175 dB
  - 180 dB
  - 185 dB
  - 190 dB
  - 195 dB
  - 200 dB

0 20 40 60 80 Kilometres

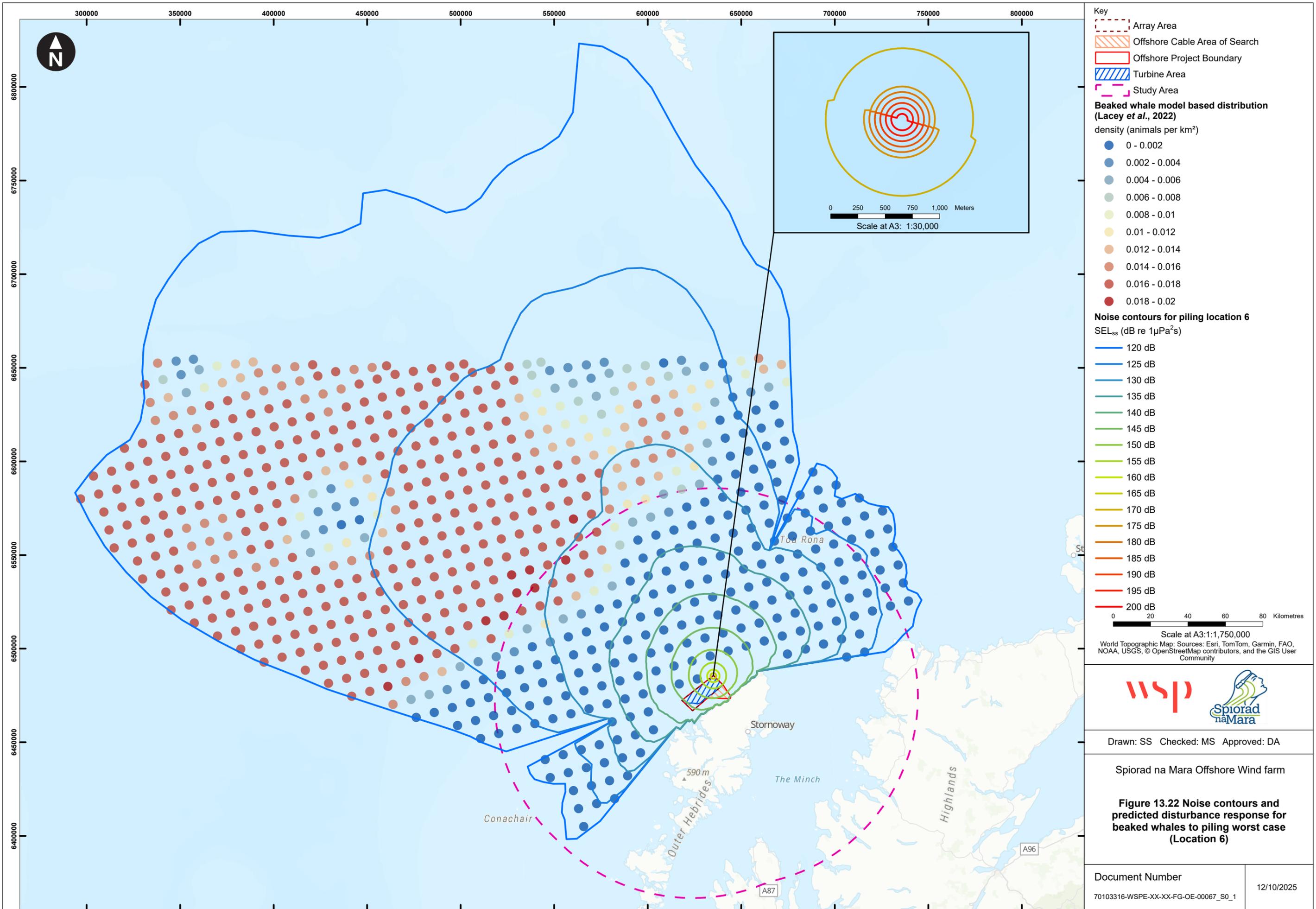
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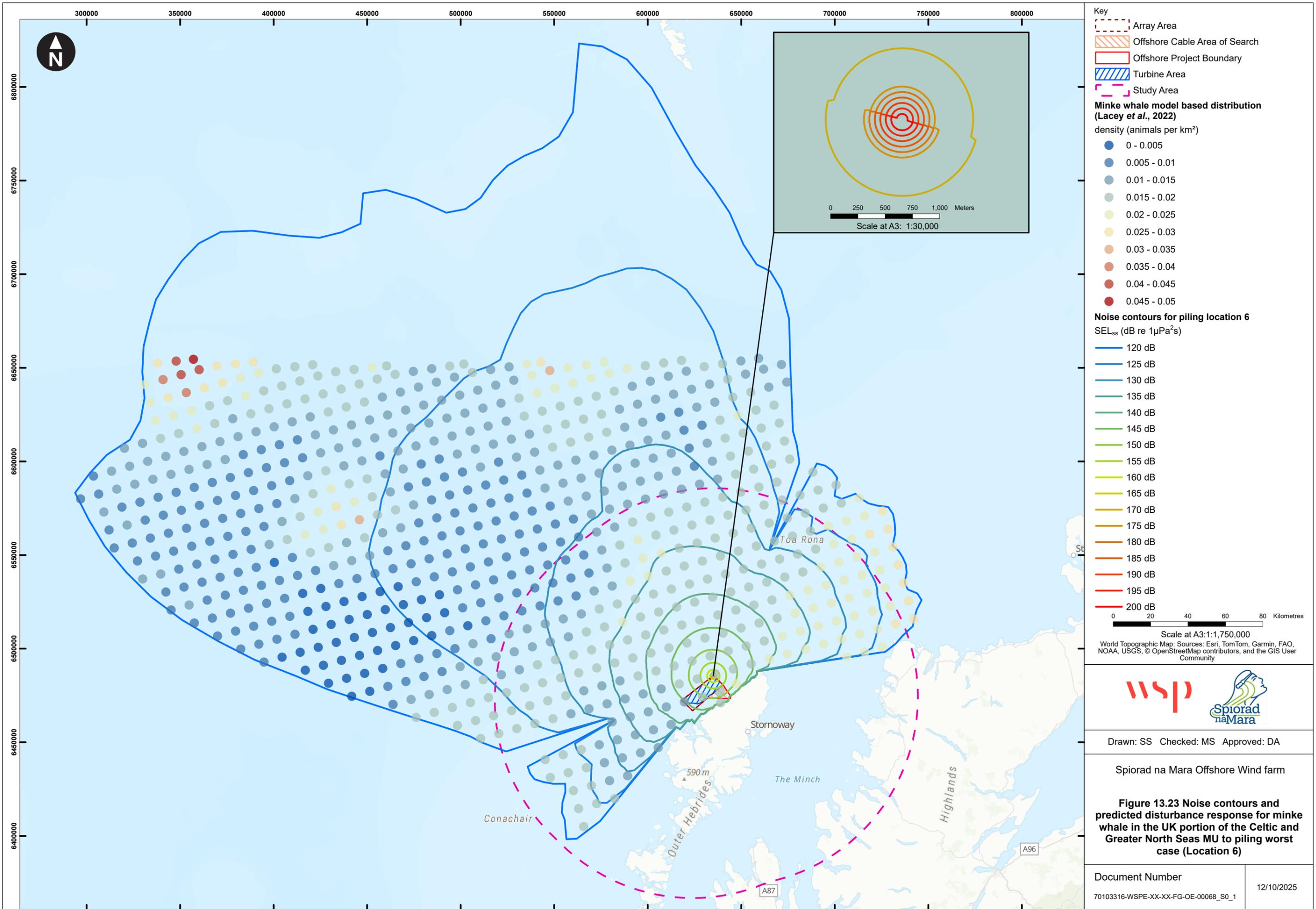


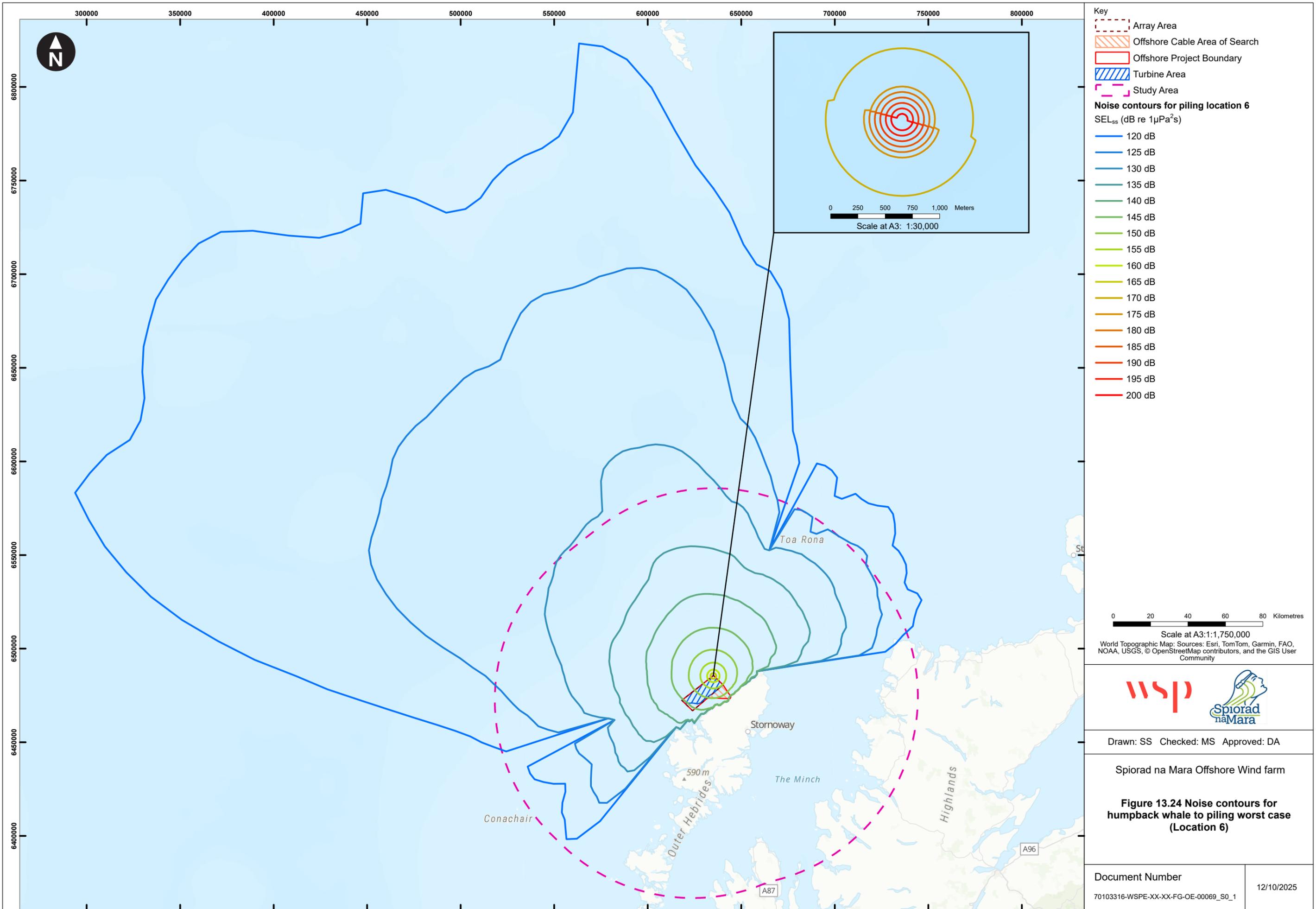
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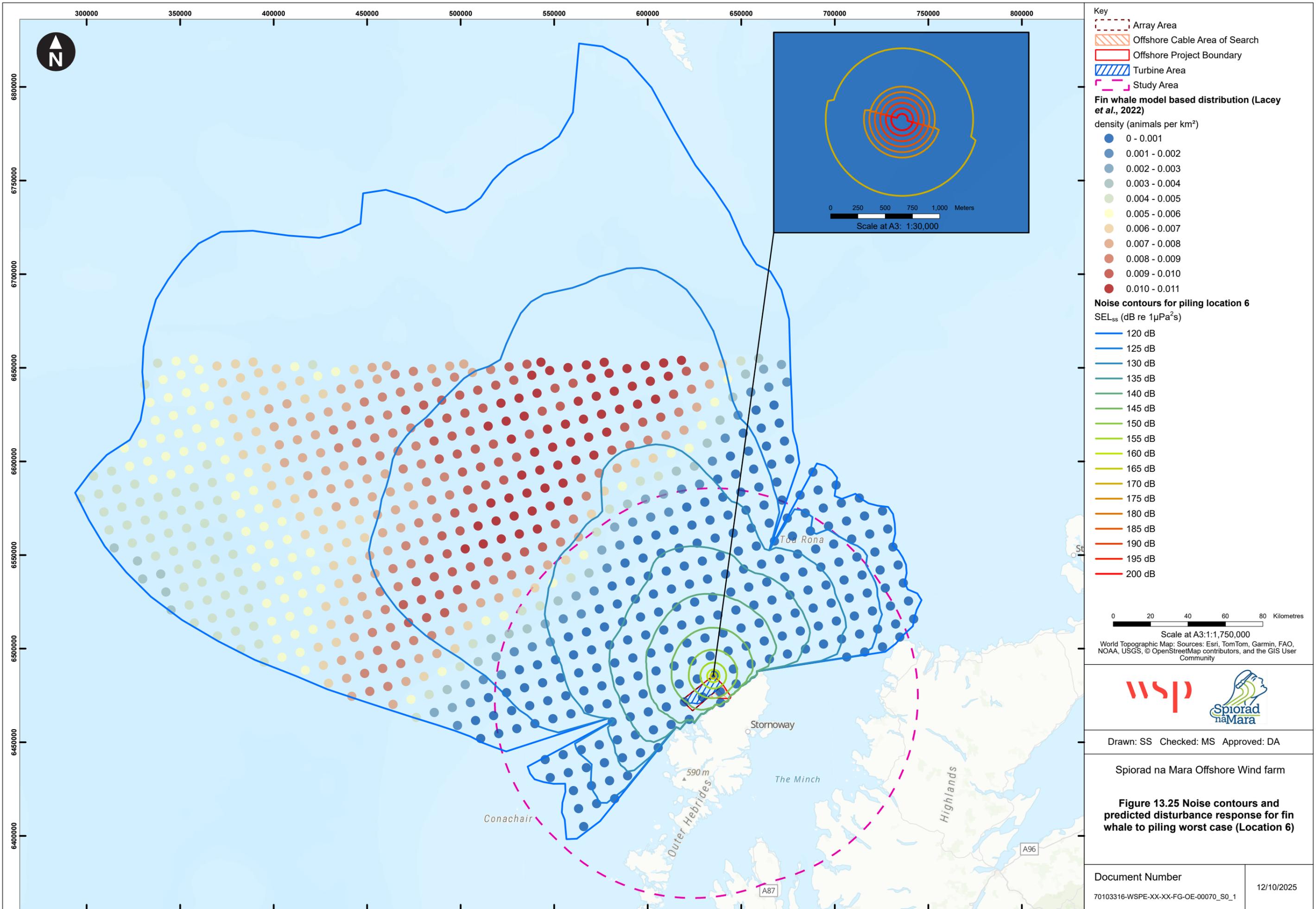
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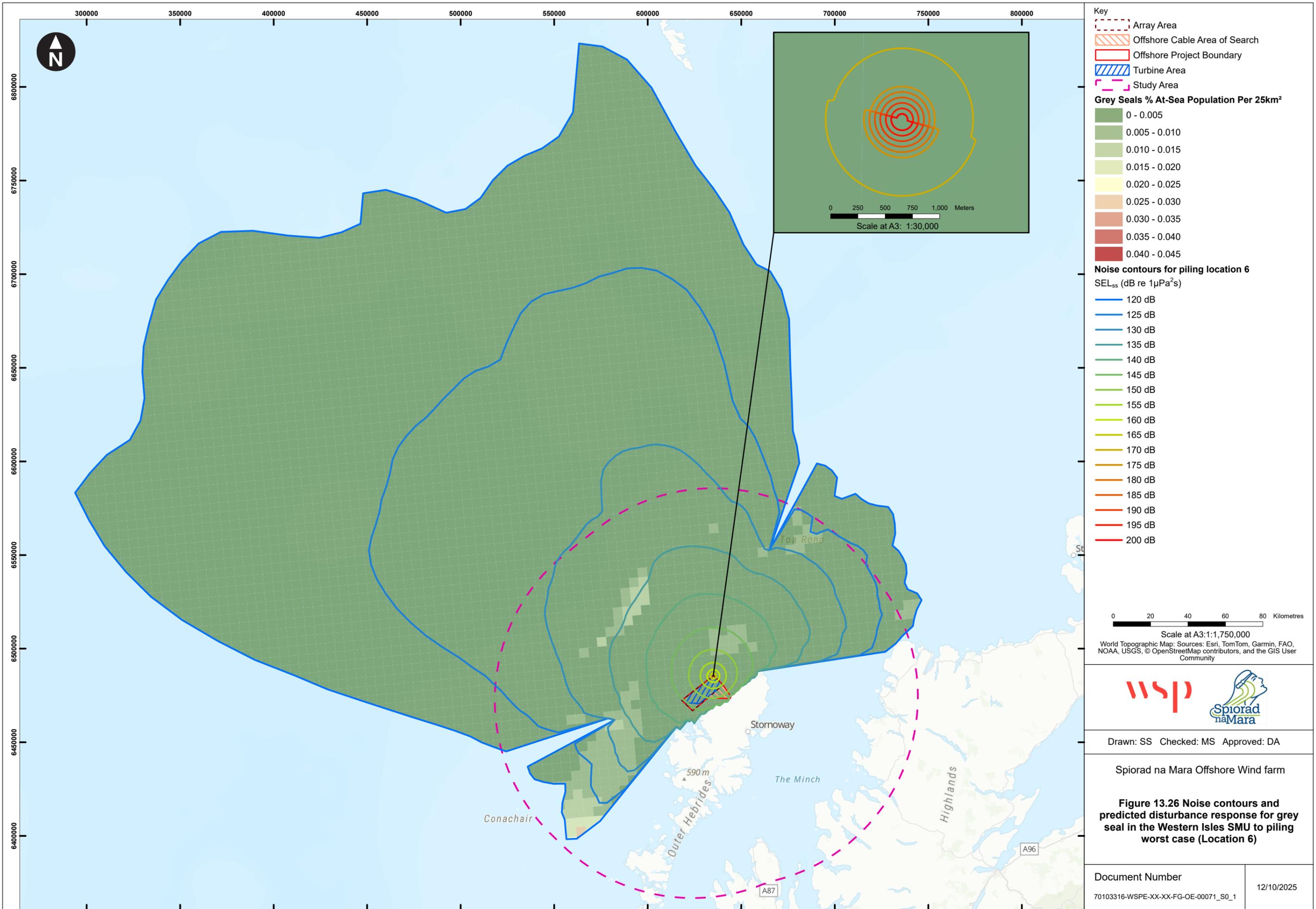
**Figure 13.21 Noise contours and predicted disturbance response for killer whale to piling worst case (Location 6)**











- Key**
- Array Area
  - Offshore Cable Area of Search
  - Offshore Project Boundary
  - Turbine Area
  - Study Area
- Grey Seals % At-Sea Population Per 25km<sup>2</sup>**
- 0 - 0.005
  - 0.005 - 0.010
  - 0.010 - 0.015
  - 0.015 - 0.020
  - 0.020 - 0.025
  - 0.025 - 0.030
  - 0.030 - 0.035
  - 0.035 - 0.040
  - 0.040 - 0.045

- Noise contours for piling location 6**  
SEL<sub>ss</sub> (dB re 1μPa<sup>2</sup>s)
- 120 dB
  - 125 dB
  - 130 dB
  - 135 dB
  - 140 dB
  - 145 dB
  - 150 dB
  - 155 dB
  - 160 dB
  - 165 dB
  - 170 dB
  - 175 dB
  - 180 dB
  - 185 dB
  - 190 dB
  - 195 dB
  - 200 dB

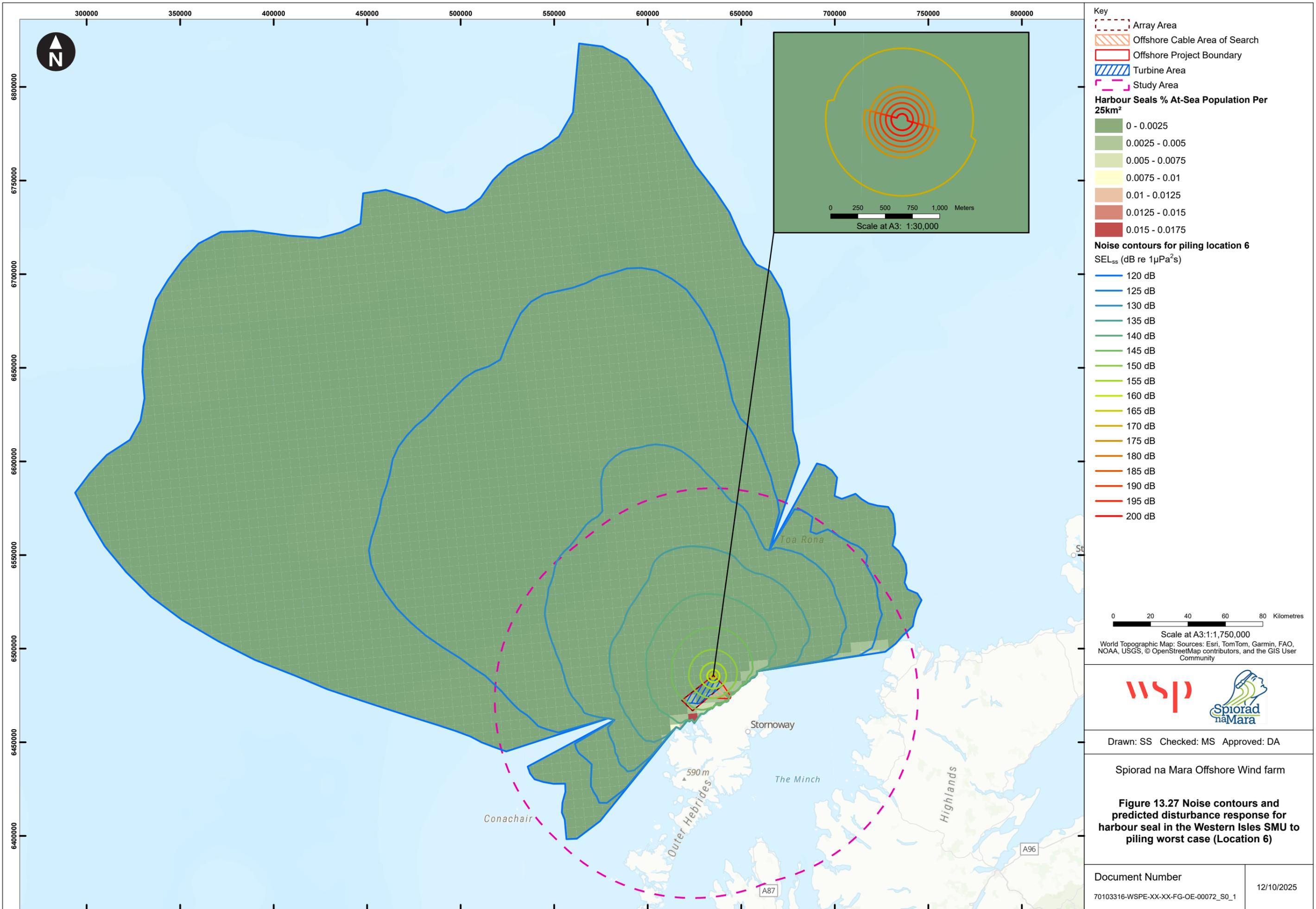
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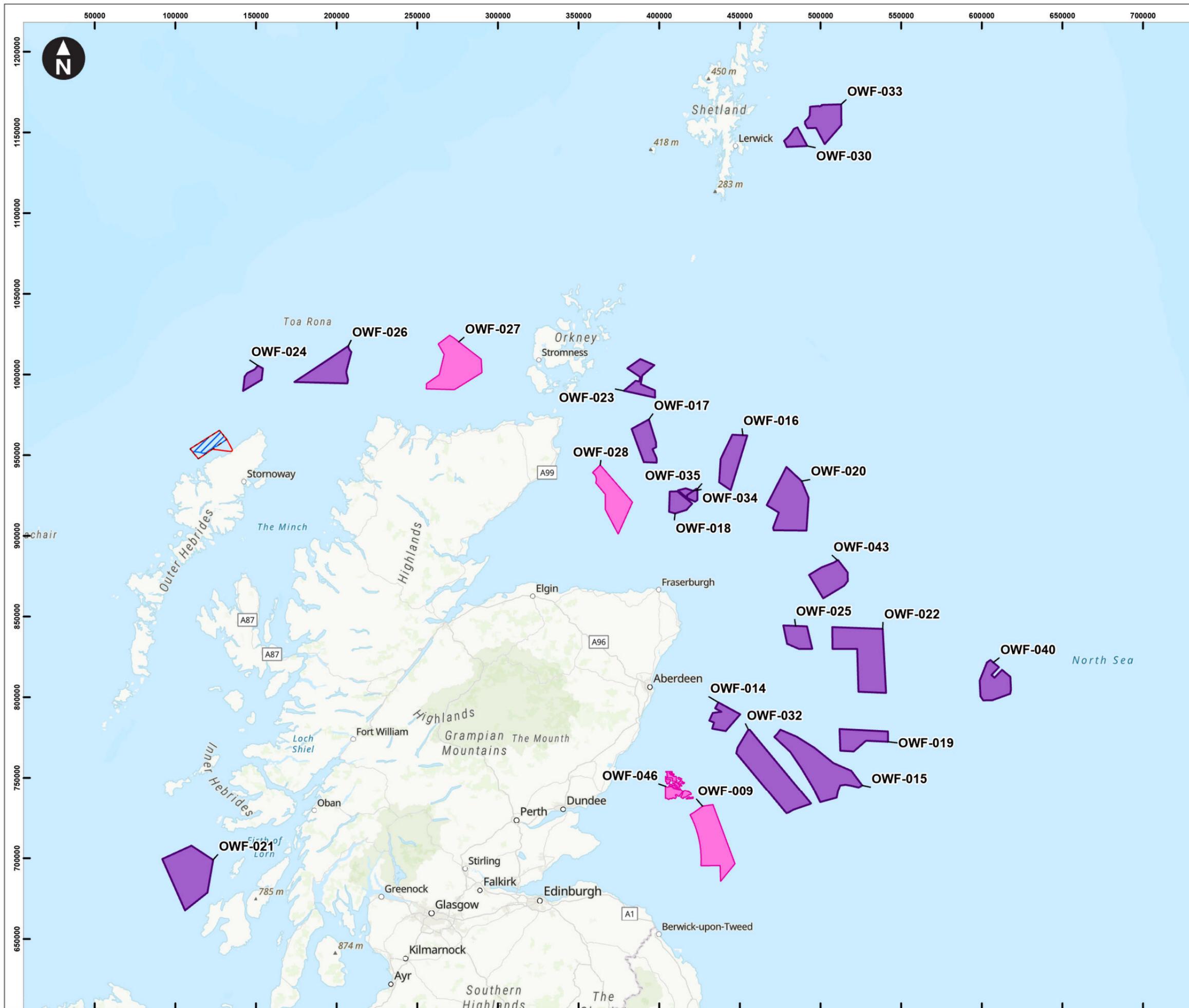


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**Figure 13.26 Noise contours and predicted disturbance response for grey seal in the Western Isles SMU to piling worst case (Location 6)**





**Key**

- Offshore Project Boundary
- Array Area
- Turbine Area

**Offshore Wind Farms**

- Consented
- In Planning

OWF-009 - Berwick Bank Wind Farm  
 OWF-014 - Bowdun Offshore Wind Farm  
 OWF-015 - Ossian Offshore Wind Farm  
 OWF-016 - Buchan Offshore Wind Farm  
 OWF-017 - Stromar  
 OWF-018 - Broadshore  
 OWF-019 - Bellrock  
 OWF-020 - MarramWind  
 OWF-021 - MachairWind  
 OWF-022 - CampionWind  
 OWF-023 - Ayre Offshore Wind Farm  
 OWF-024 - Talisk Offshore Wind Project  
 OWF-025 - Muir Mhor  
 OWF-026 - Havbredey  
 OWF-027 - West of Orkney Wind Farm  
 OWF-028 - Caledonia Offshore Wind Farm  
 OWF-030 - Arven South  
 OWF-032 - Morven  
 OWF-033 - Arven Offshore Wind Farm  
 OWF-034 - Sinclair  
 OWF-035 - Scaraben  
 OWF-040 - Cenos  
 OWF-043 - Aspen  
 OWF-046 - Seagreen 1A Offshore Wind Farm

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**Figure 13.28**  
**Other developments considered as part of the marine mammals CEA**