



MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Environmental Statement

Volume 2, Figures - Part 3 of 5



September 2024
Rev: ES Issue

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Version	Purpose of document	Approved by	Date	Approved by	Date
ES	For issue	AS	September 2024	IM	September 2024

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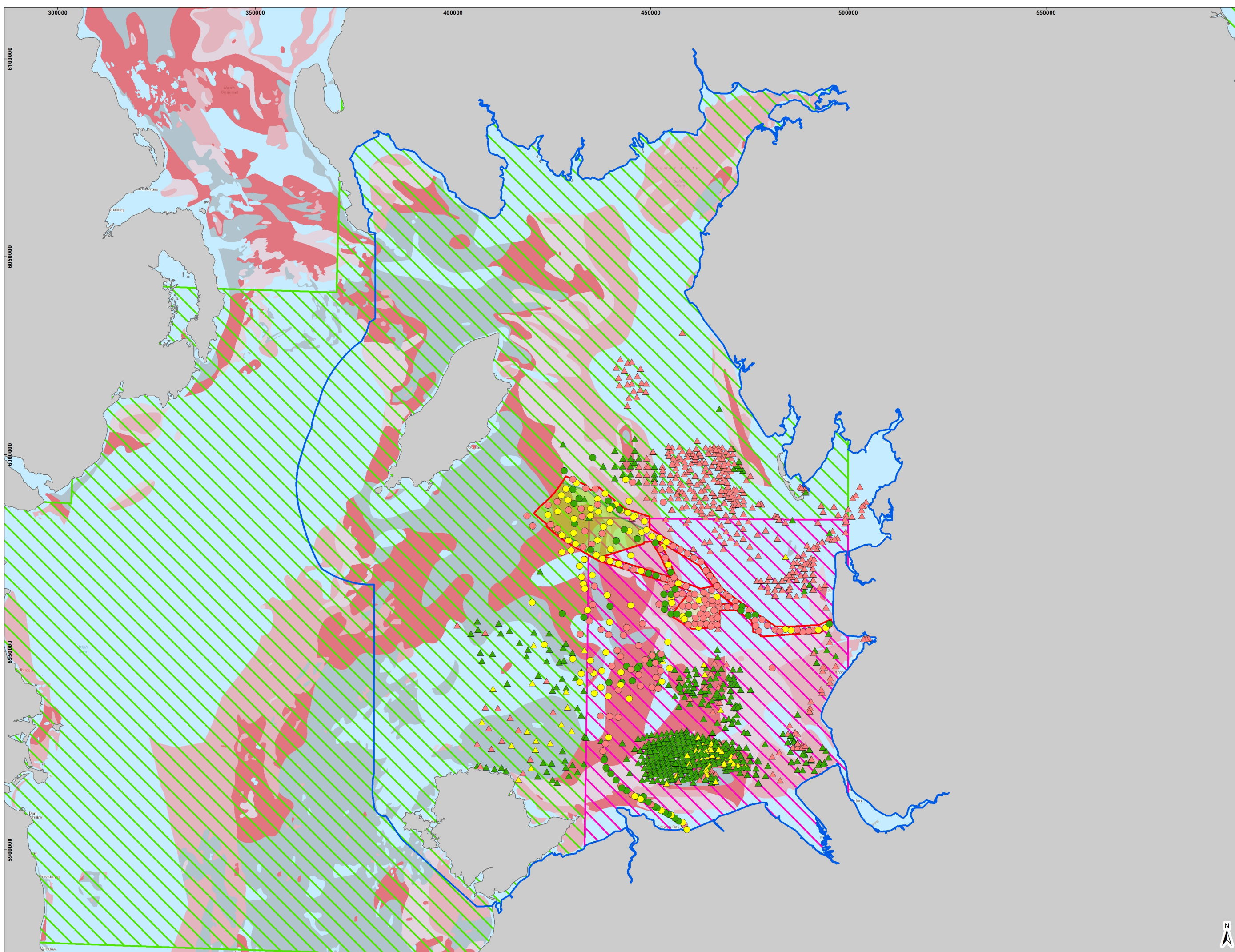
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Prepared by:

RPS

Prepared for:

**Morgan Offshore Wind Limited,
Morecambe Offshore Windfarm Ltd**



LEGEND

- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits – Offshore
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Transmission Assets Fish and Shellfish Ecology Study Area
- Spawning Ground - High Intensity (Ellis *et al.*, 2012)
- Spawning Ground - Low Intensity (Ellis *et al.*, 2012)

- Habitat Suitability (Latto *et al.*, 2013)**
- Preferred
 - Marginal
 - Unsuitable

- Habitat Suitability (Other Survey)**
- ▲ Preferred
 - ▲ Marginal
 - ▲ Unsuitable

- EMODnet Seabed Substrates Folk 16 Classification:**
- Sandeel Preferred Habitat**
- 311. Gravelly Sand
 - 212. (Gravelly) Sand
 - 211. Sand
- Sandeel Marginal Habitat**
- 321. Sandy Gravel

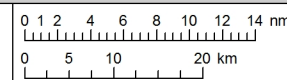


Figure 3.5

Drawing Number:
EOR0823-ES-FAS-E005-01

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
REGIONAL SANDEEL SUBSTRATE SUITABILITY CLASSIFICATION (LATTO ET AL., 2013)

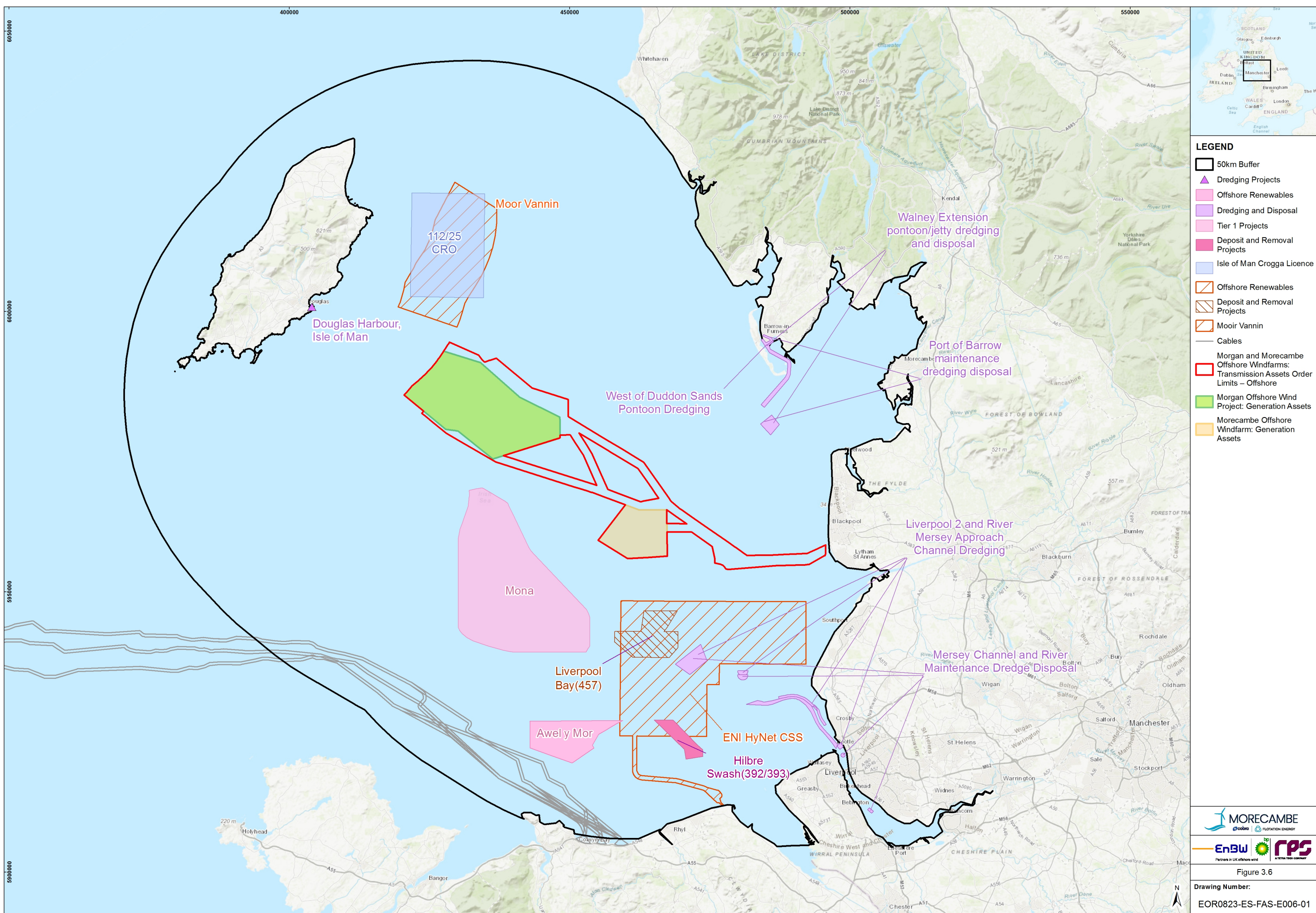


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Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Marine Scotland, Natural Resources Wales, CEFAS, EMODnet

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VER	DATE	DETAILS	BY	CHECK
00	27/08/24	Initial Issue	MJ	TH
01	17/09/24	Final	MJ	BM



LEGEND

- 50km Buffer
- Dredging Projects
- Offshore Renewables
- Dredging and Disposal
- Tier 1 Projects
- Deposit and Removal Projects
- Isle of Man Crogga Licence
- Offshore Renewables
- Deposit and Removal Projects
- Moor Vannin
- Cables
- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits – Offshore
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets

MORECAMBE
enbw | bp | FPS

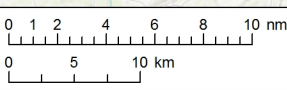
enbw **bp** **FPS**
Partners in UK offshore wind | A TOTAL TECH COMPANY

Figure 3.6

Drawing Number:
EOR0823-ES-FAS-E006-01

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
OTHER PROJECTS, PLANS AND ACTIVITIES SCREENED INTO THE CUMULATIVE EFFECTS ASSESSMENT.

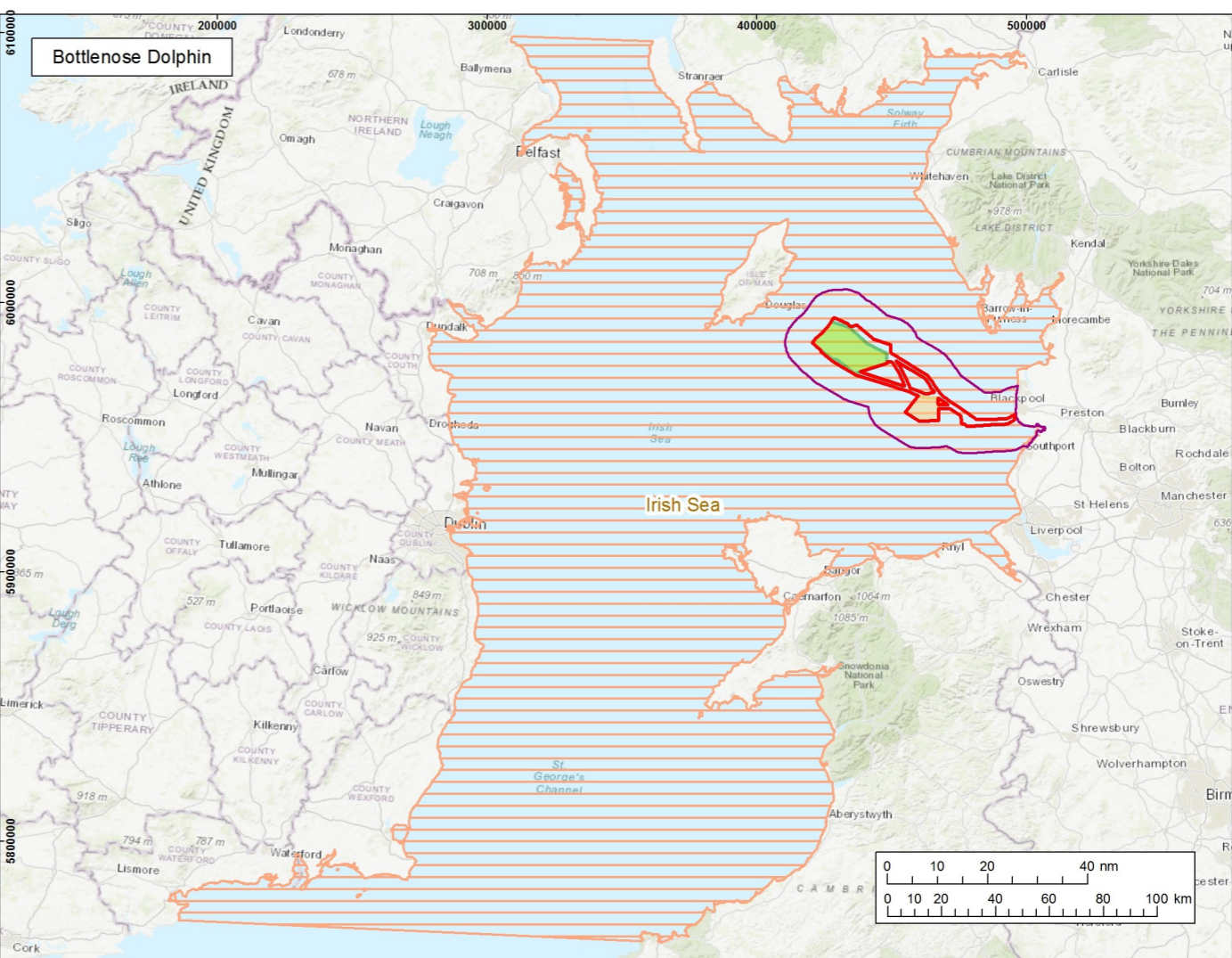
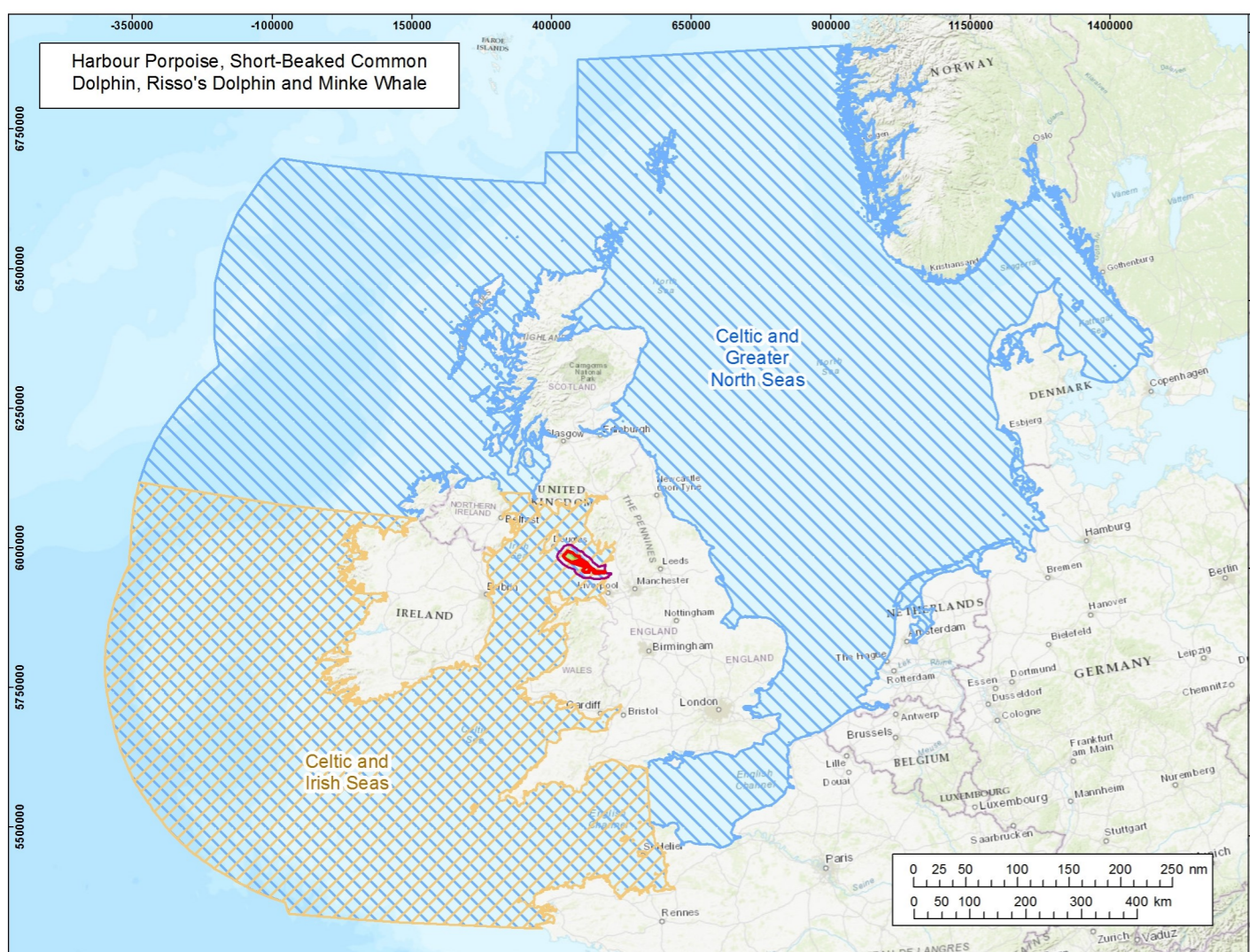


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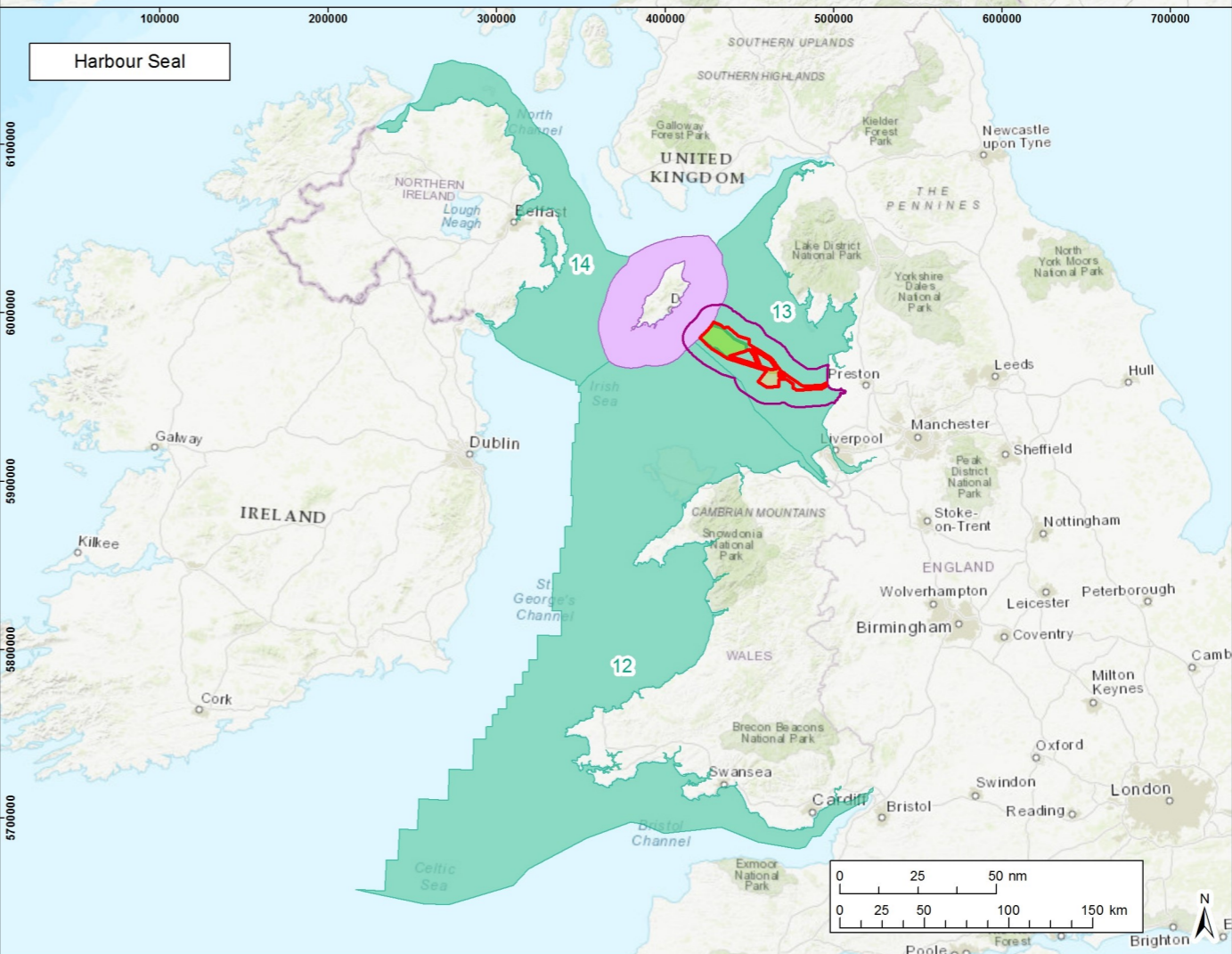
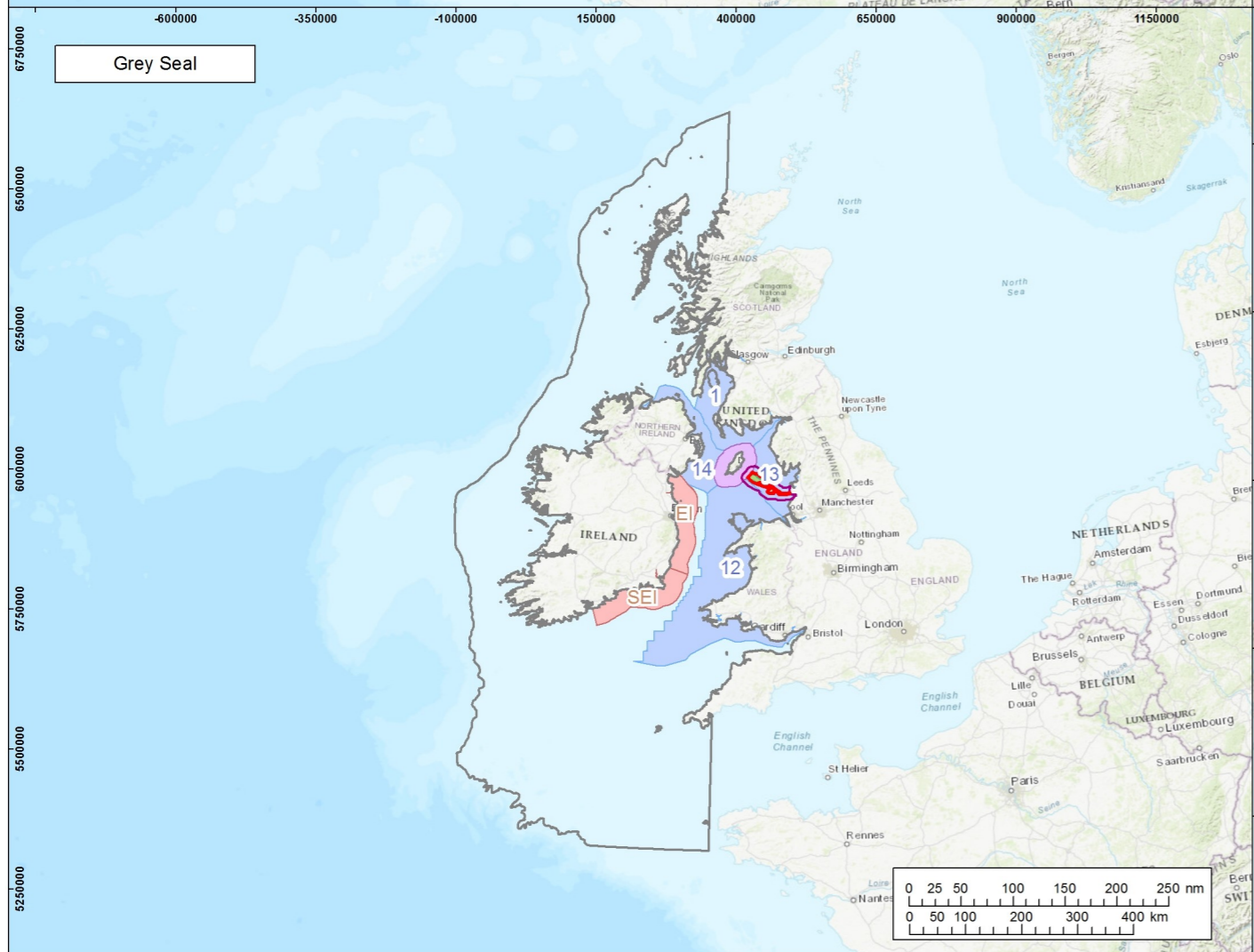
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00	27/08/24	Initial Issue	MJ	TH
01	17/09/24	Final	MJ	BM



- LEGEND**
- Morgan and Morecambe Offshore Windfarms:
 - Transmission Assets Order Limits – Offshore
 - Morgan Offshore Wind Project: Generation Assets
 - Morecambe Offshore Windfarm: Generation Assets
 - Transmission Assets marine mammal study area
 - Management Unit (MU) for Harbour Porpoise
 - Management Unit (MU) for Short-Beaked Common Dolphin, Risso's Dolphin and Minke Whale
 - Management Unit (MU) for Bottlenose dolphin
 - OSPAR Region III
 - East of Ireland and Southeast of Ireland regions
 - Isle of Man region
 - Grey Seal Management Units (MU)
 - Harbour Seal Management Units (MU)



Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
TRANSMISSION ASSETS MARINE MAMMAL STUDY AREA AND RELEVANT SPECIES MUS

Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: Various

Data Sources: Client, The Crown Estate, MMO, ScotGov, Marine Scotland, Natural Resources Wales, JNCC, Waggit et al. (2020)

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Figure 4.1

Drawing Number:
RPSE-ES-MAM-E001-04

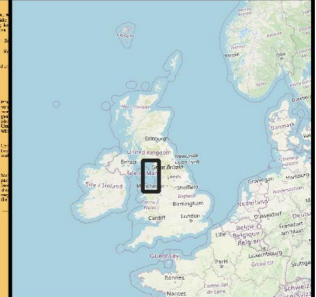
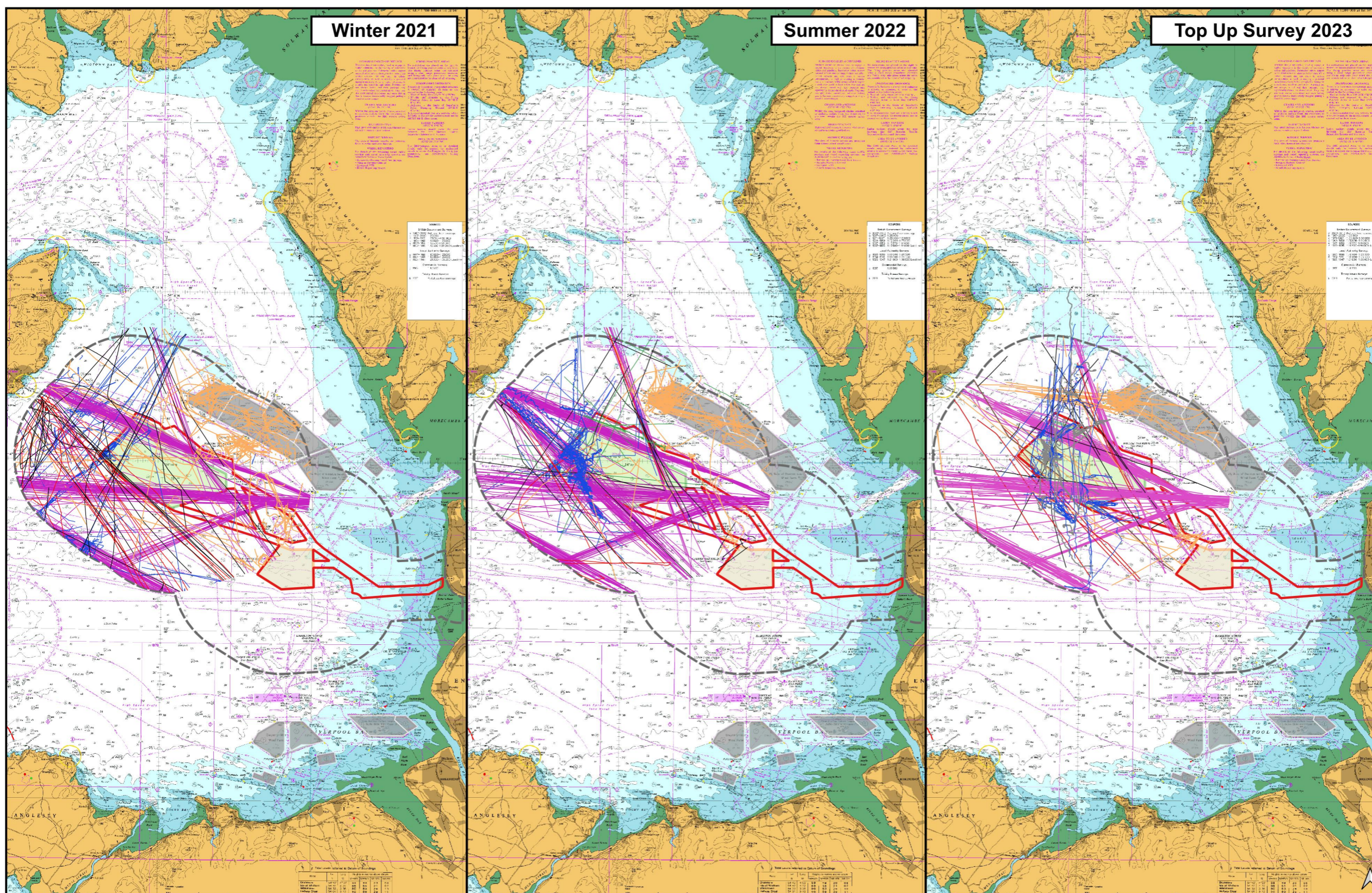
VER	DATE	DETAILS	BY	CHECK
00	20/03/24	Initial Issue	NG	AH
04	17/09/24	Final	MJ	BM



Winter 2021

Summer 2022

Top Up Survey 2023



LEGEND

- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits - Offshore
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Existing Offshore Windfarms
- Shipping and Navigation Study Area

Vessel Tracks

- Cargo
- Tanker
- Passenger
- Fishing
- Recreational
- Tug and Service



Drawing Number:
NASH-MMTA-SN-036-00

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
Morgan Vessel Traffic Surveys

0 2 4 nm
0 5 10 km

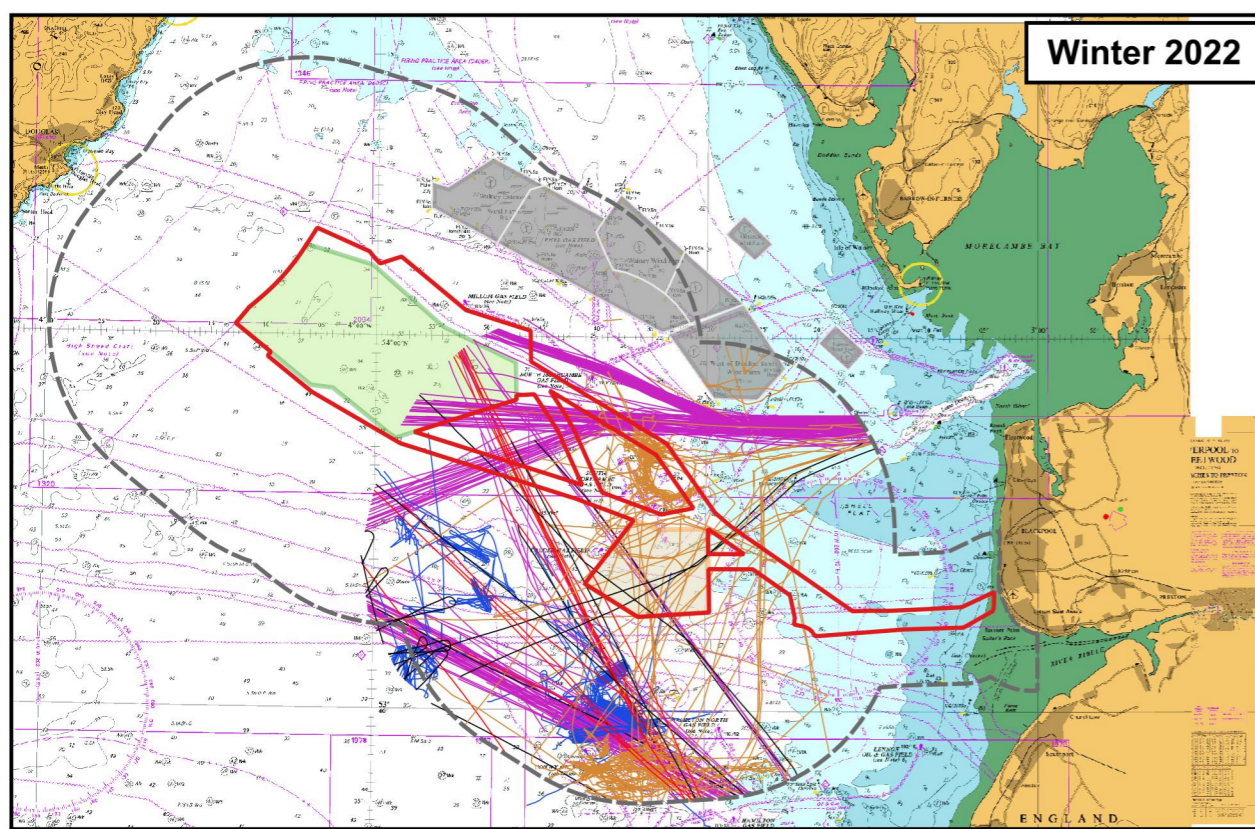
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Data Sources: Admiralty Charts 1826 & 1981; OWFs from The Crown Estate; NASH Maritime Traffic Survey Data between 2021 and 2023.

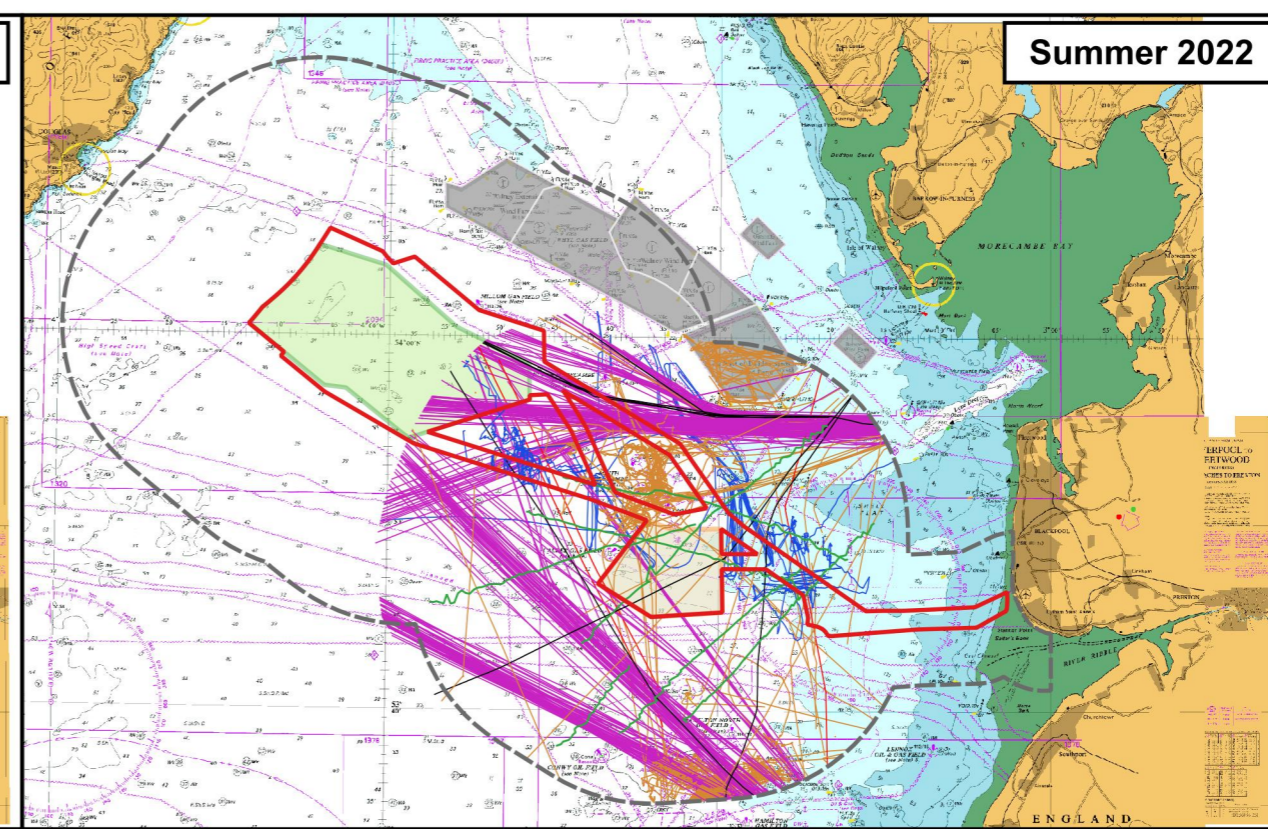
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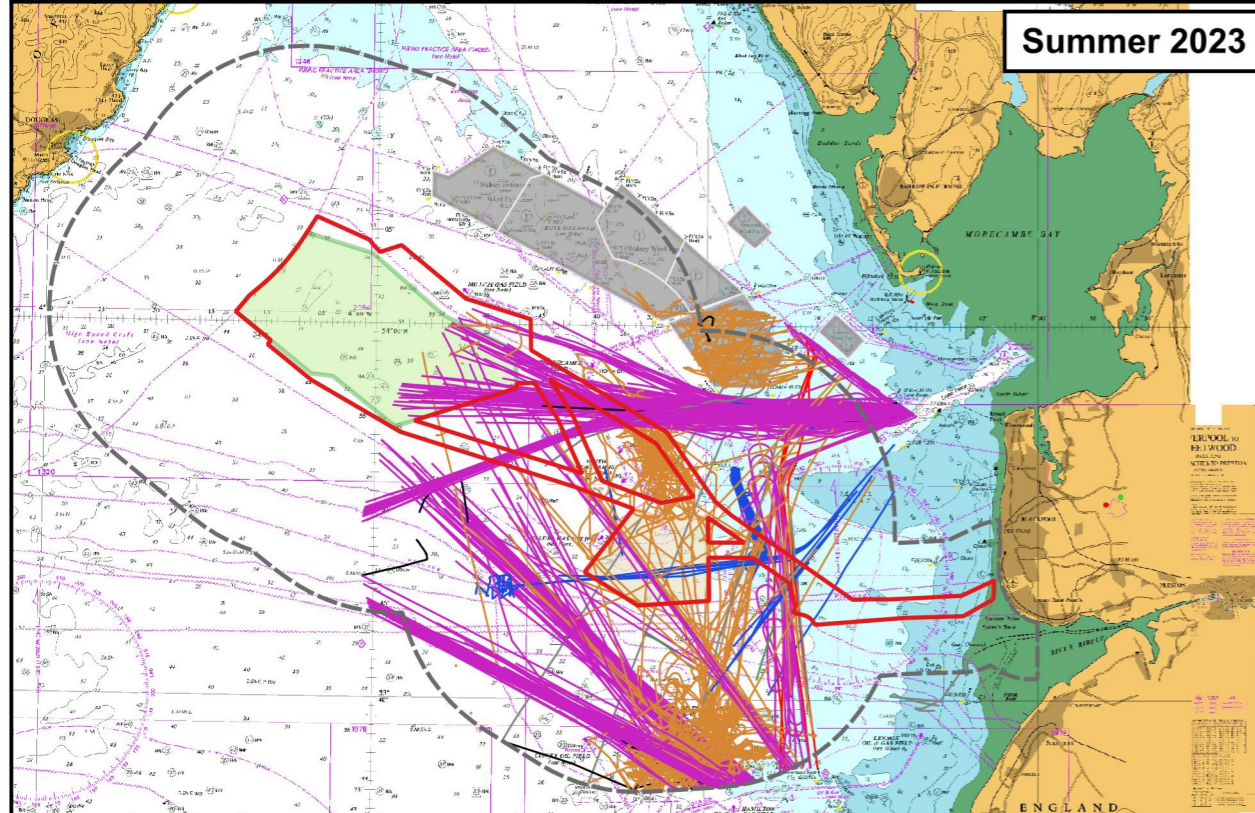
VER	DATE	DETAILS	BY	CHECK
V2	27/08/24	FINAL	RA	RM



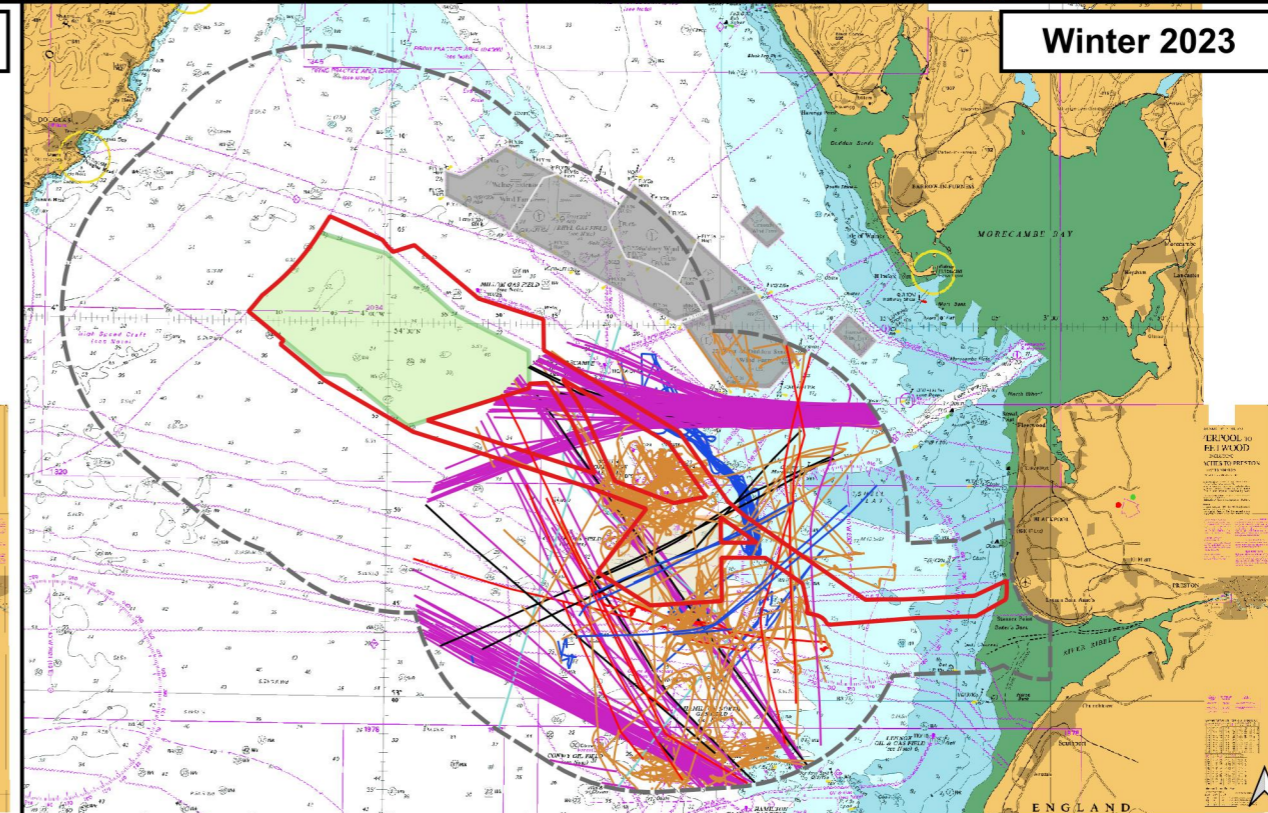
Winter 2022



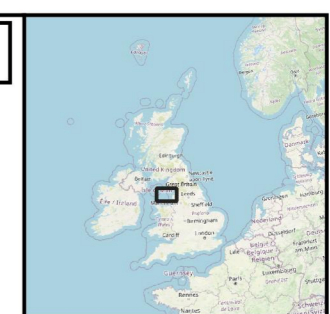
Summer 2022



Summer 2023



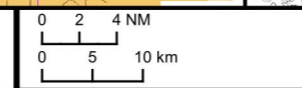
Winter 2023



- LEGEND**
- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits - Offshore
 - Morgan Offshore Wind Project: Generation Assets
 - Morecambe Offshore Windfarm: Generation Assets
 - Existing Offshore Windfarms
 - Shipping and Navigation Study Area
- Vessel Tracks**
- Cargo
 - Tanker
 - Passenger
 - Fishing
 - Recreational
 - Tug and Service

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
Morecambe Vessel Traffic Surveys



Geodetic Information:
Datum: ETRS 1989
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Data Sources: Admiralty Charts 1826 & 1981; OWFs from The Crown Estate; NASH Maritime Traffic Survey Data 2022 and 2023.

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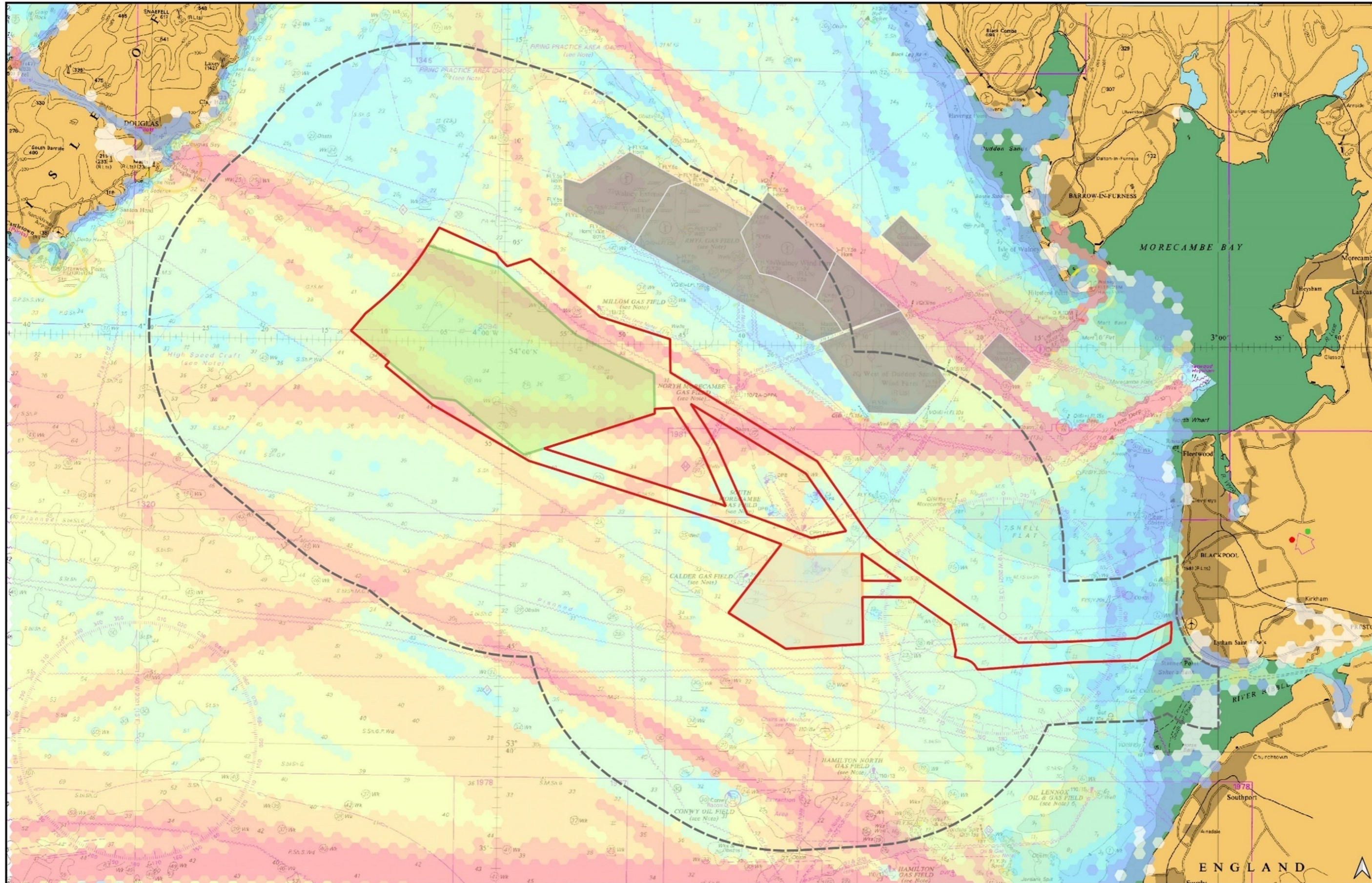


MORECAMBE
a Probita FLotation ENERGY

EnBW **bp** **rps**
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Drawing Number:
NASH-MMTA-SN-039-00

VER	DATE	DETAILS	BY	CHECK
V2	27-08-24	FINAL	RA	AR



- LEGEND**
- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits - Offshore
 - Morgan Offshore Wind Project: Generation Assets
 - Morecambe Offshore Windfarm: Generation Assets
 - Existing Offshore Windfarms
 - Shipping and Navigation Study Area

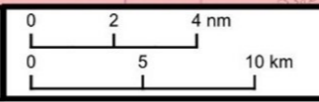
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- <math>< 1</math>
 - 1 - 10
 - 10 - 20
 - 20 - 40
 - 40 - 80
 - 80 - 160
 - 160 - 320
 - 320 - 640
 - > 640

Figure 4.4

MORECAMBE
 EnBW bp rps
 Drawing Number:
 NASH-MMTA-SN-012-00

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
 Vessel Traffic Density (2022)



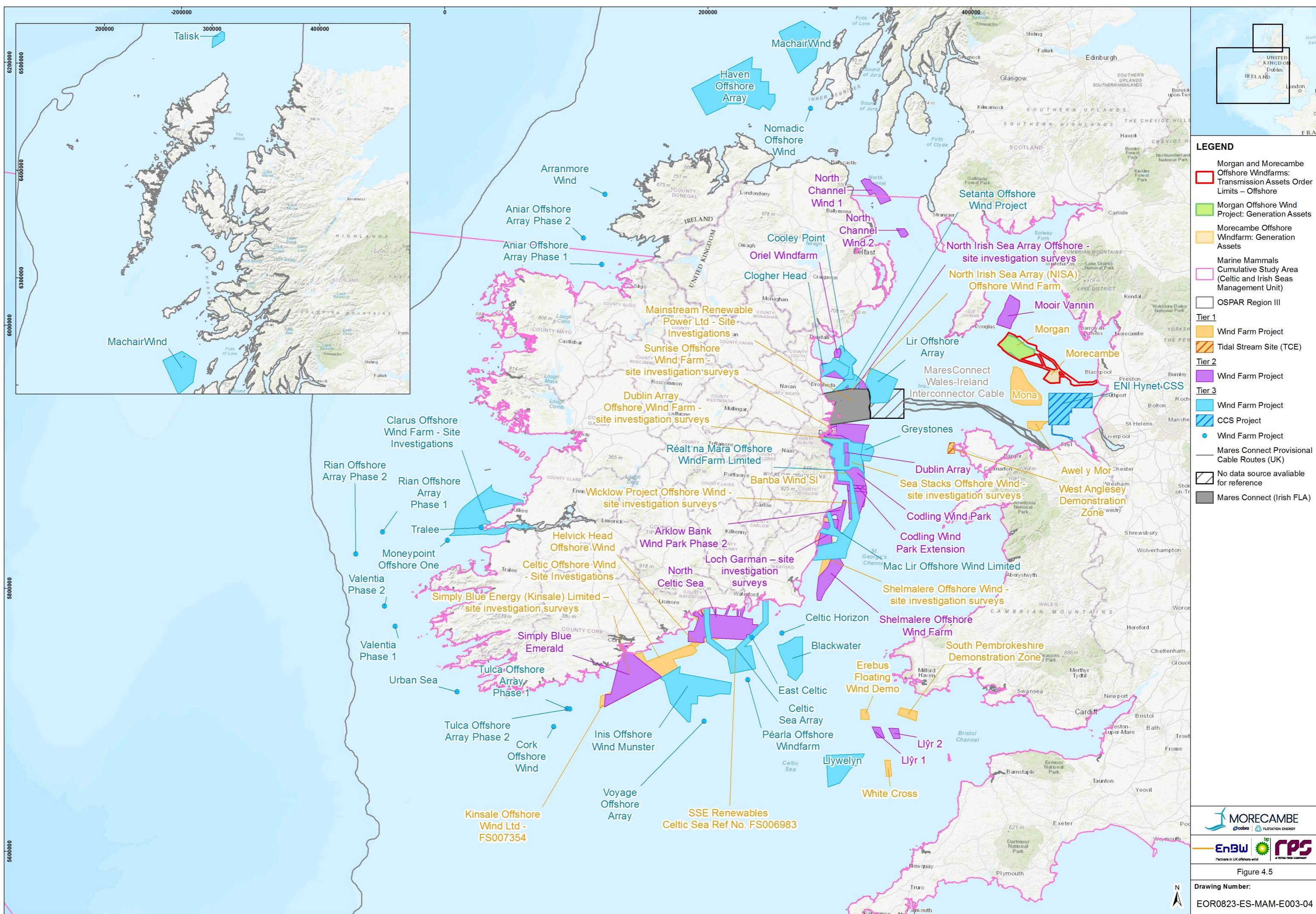
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Data Sources: Admiralty Charts 1826 & 1981; OWFs from The Crown Estate; Marine Traffic 2022 AIS Data

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VER	DATE	DETAILS	BY	CHECK
V2	01/07/24	FINAL	RM	AR





LEGEND

- Morgan and Morecambe Offshore Windfarms:
 - Transmission Assets Order Limits – Offshore
 - Generation Assets
- Morecambe Offshore Windfarm:
 - Generation Assets
- Marine Mammals Cumulative Study Area (Celtic and Irish Seas Management Unit)
- OSPAR Region III

Tier 1

- Wind Farm Project
- Tidal Stream Site (TCE)

Tier 2

- Wind Farm Project

Tier 3

- Wind Farm Project
- CCS Project

- Wind Farm Project
- CCS Project

- Mares Connect Provisional Cable Routes (UK)
- No data source available for reference
- Mares Connect (Irish FLA)

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gpcobra | FLOTATION ENERGY

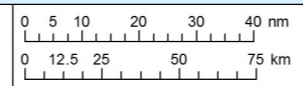
EnBW **RPS**
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Figure 4.5

Drawing Number:
 EOR0823-ES-MAM-E003-04

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
 OTHER PROJECTS, PLANS AND ACTIVITIES SCREENED INTO THE CEA WITH DIRECT IMPACTS ON MARINE MAMMALS

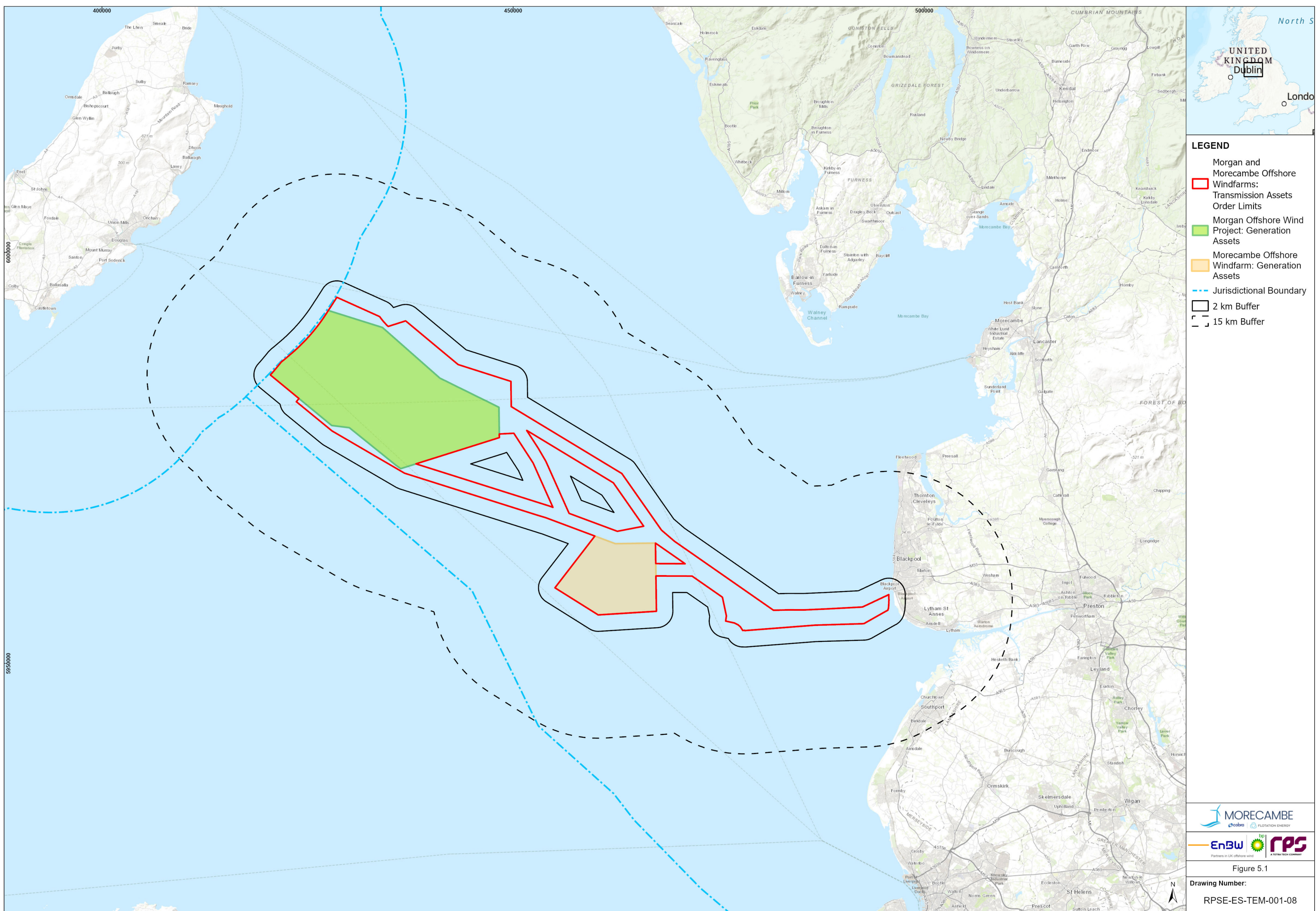


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Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, TCE, EMODnet, gov.ie, JNCC

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

VER	DATE	DETAILS	BY	CHECK
00	02/05/24	Initial Issue	MJ	AH
04	17/09/24	Final	MJ	BM



LEGEND

- Morgan and Morecambe Offshore Windfarms:
 - Transmission Assets
 - Order Limits
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Jurisdictional Boundary
- 2 km Buffer
- 15 km Buffer

MORECAMBE
 FLOTATION ENERGY

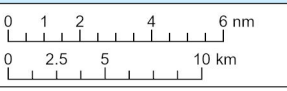
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Figure 5.1

Drawing Number:
 RPSE-ES-TEM-001-08

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
 Figure 5.1: Study areas associated with impacts relevant to offshore ornithological receptors with the Transmission Assets

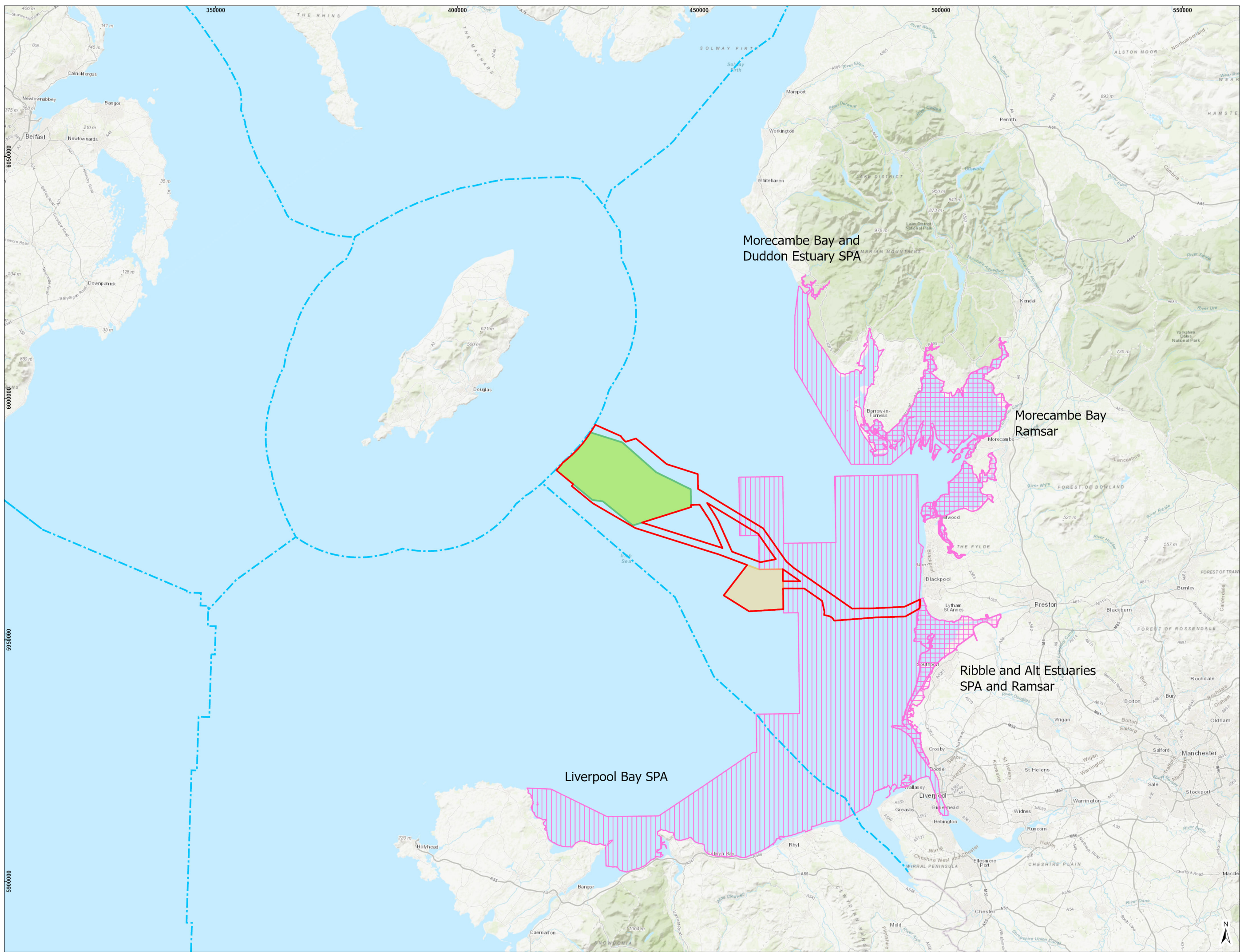


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Service Layer Credits: World Topographic Map: Esri UK, Esri, TomTom, Garmin, FAO, NOAA, USGS
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00	16/04/24	First Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE



LEGEND

- Morgan and Morecambe Offshore Windfarms:
- Transmission Assets
- Order Limits – Offshore
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Jurisdictional Boundary
- Special Protection Area (SPA)
- Ramsar Sites

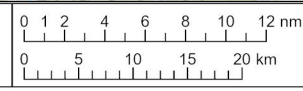
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Figure 5.2

Drawing Number:
RPSE-ES-TEM-001-08

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
Figure 5.2: SPAs & Ramsar sites of relevance to the Transmission Assets assessment

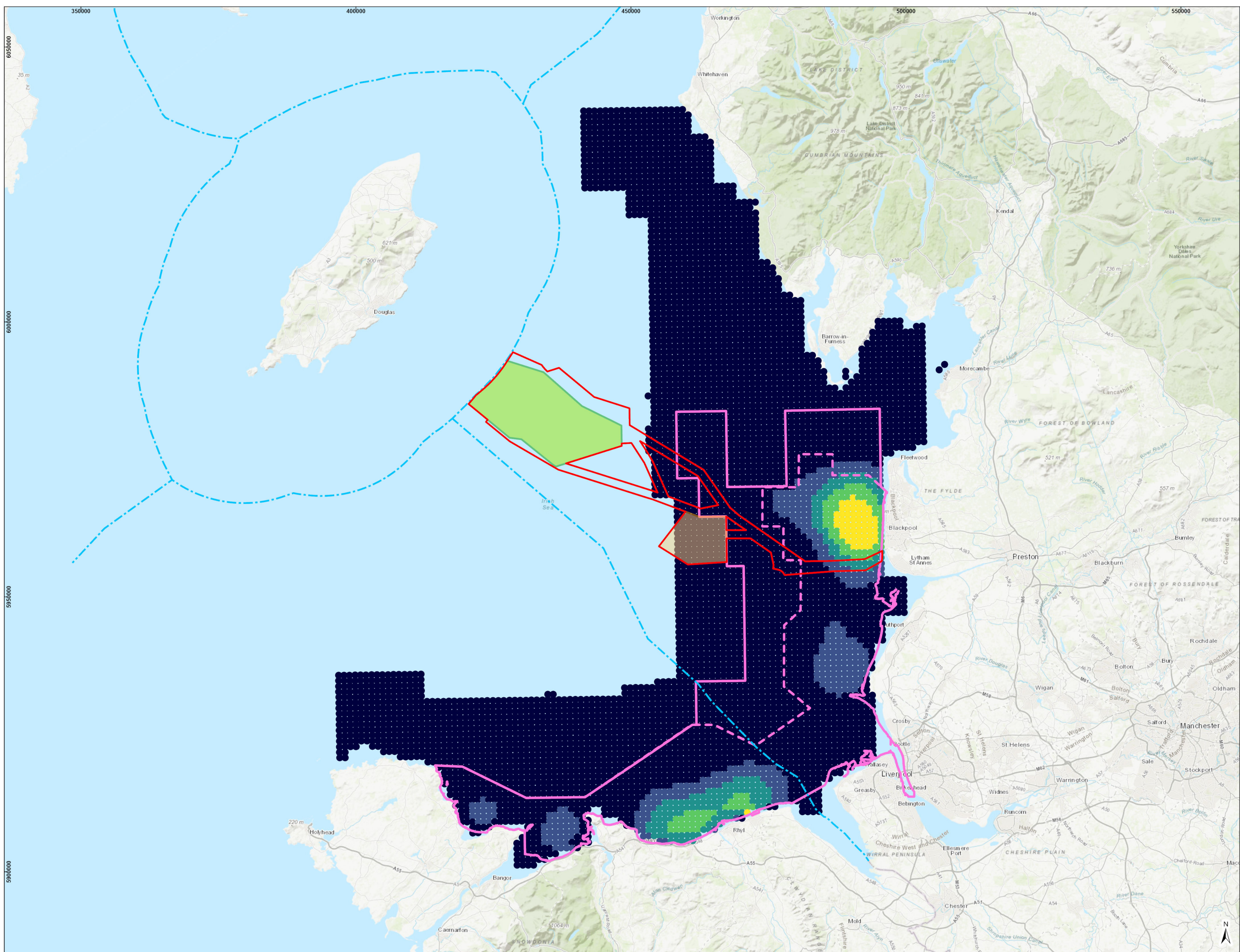


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Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
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01	13/09/24	Final Issue	JOSW	WIGE



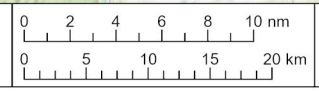
- LEGEND**
- Morgan and Morecambe Offshore Windfarms: Transmission Assets
 - Order Limits – Offshore
 - Morecambe Offshore Windfarm: Generation Assets
 - Morgan Offshore Wind Project: Generation Assets
 - Jurisdictional Boundary
 - Liverpool Bay SPA (Original Boundary)
 - Liverpool Bay SPA (Extended Boundary)
- Common Scoter densities (birds/km²)
- ≤15
 - ≤50
 - ≤105
 - ≤195
 - ≤340



Figure 5.3
 Drawing Number:
 RPSE-ES-TEM-001-08

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
 Figure 5.3: Common Scoter densities in the Liverpool Bay Area of Search (Lawson et al., 2016)

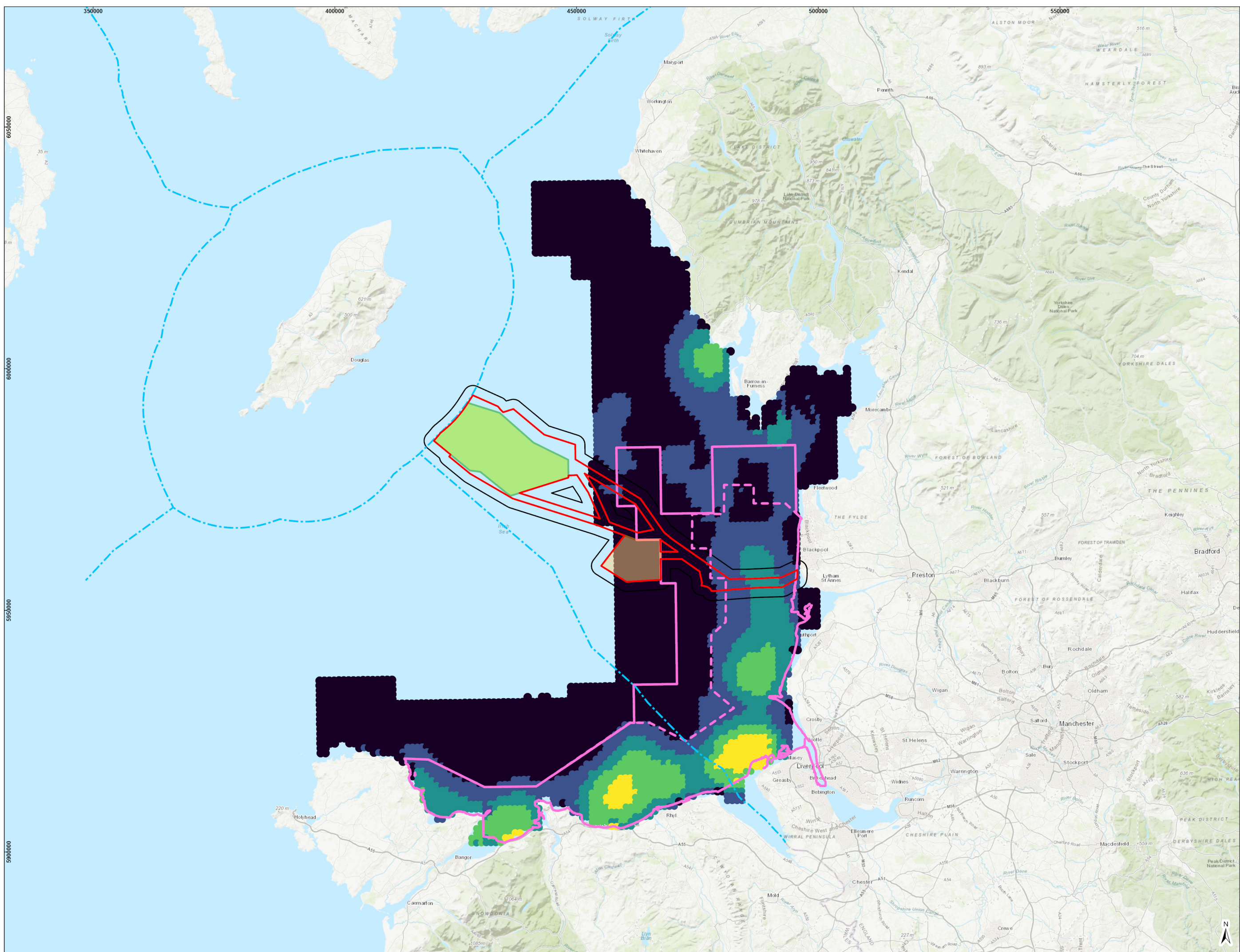


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Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org

Service Layer Credits: World Topographic Map, Esri, HERE, Garmin, FAO, NOAA, USGS, World Topographic Map, Esri, HERE, Garmin, FAO, USGS, IGA

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01	17/04/24	Final Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE



- LEGEND**
- Morgan and Morecambe Offshore Windfarms: Transmission Assets
 - Order Limits – Offshore
 - Morgan Offshore Wind Project: Generation Assets
 - Morecambe Offshore Windfarm: Generation Assets
 - Jurisdictional Boundary
 - Liverpool Bay SPA (Original Boundary)
 - Liverpool Bay SPA (Extended Boundary)
 - 2 km Buffer
 - Red Throated Diver Densities
 - Red-throated diver densities (birds/km²)
 - ≤ 0.08
 - ≤ 0.25
 - ≤ 0.51
 - ≤ 0.89
 - ≤ 1.74

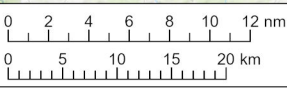


Figure 5.4

Drawing Number:
RPSE-ES-TEM-001-08

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
Figure 5.4: Red-throated diver densities in the Liverpool Bay Area of Search (Lawson et al., 2016)

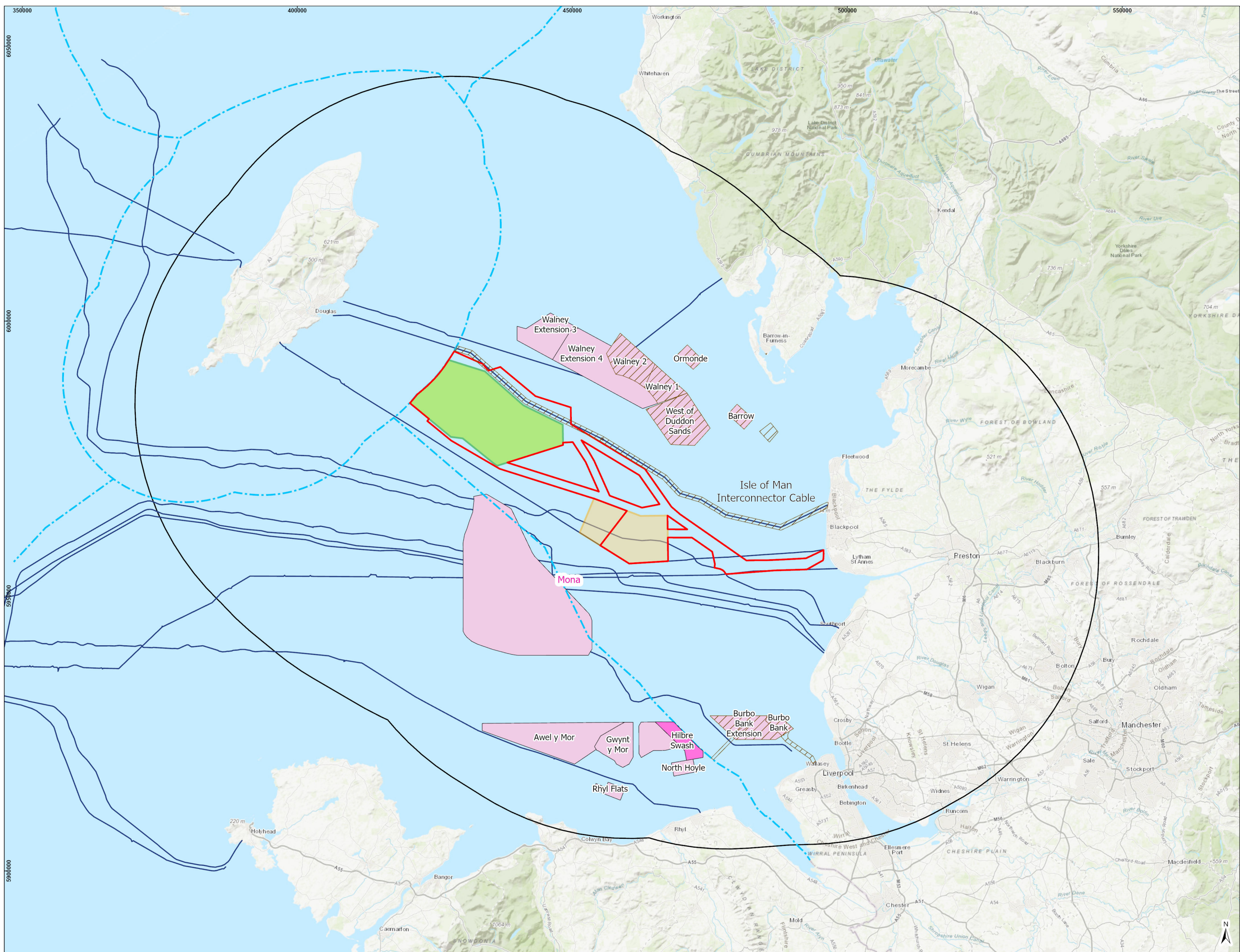


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Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org

Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
World Topographic Map: DoBH, OS, Esri, HERE, Garmin, USGS, IGA

VER	DATE	DETAILS	BY	CHECK
01	15/04/24	Final Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE



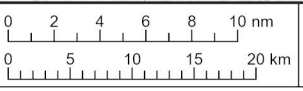
- LEGEND**
- Morgan and Morecambe Offshore Windfarms:
 - Transmission Assets Order Limits – Offshore
 - Morecambe Offshore Windfarm: Generation Assets
 - Morgan Offshore Wind Project: Generation Assets
 - Marine Cables
 - Deposit & Removal: Hilbre Swash
 - Jurisdictional Boundary
 - Offshore Wind Farms
 - Other Cables
 - 50 km Buffer



Figure 5.5
 Drawing Number:
 RPSE-ES-TEM-001-08

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title:
 Figure 5.5: Plans and projects considered in the in-combination assessment for the Transmission Assets

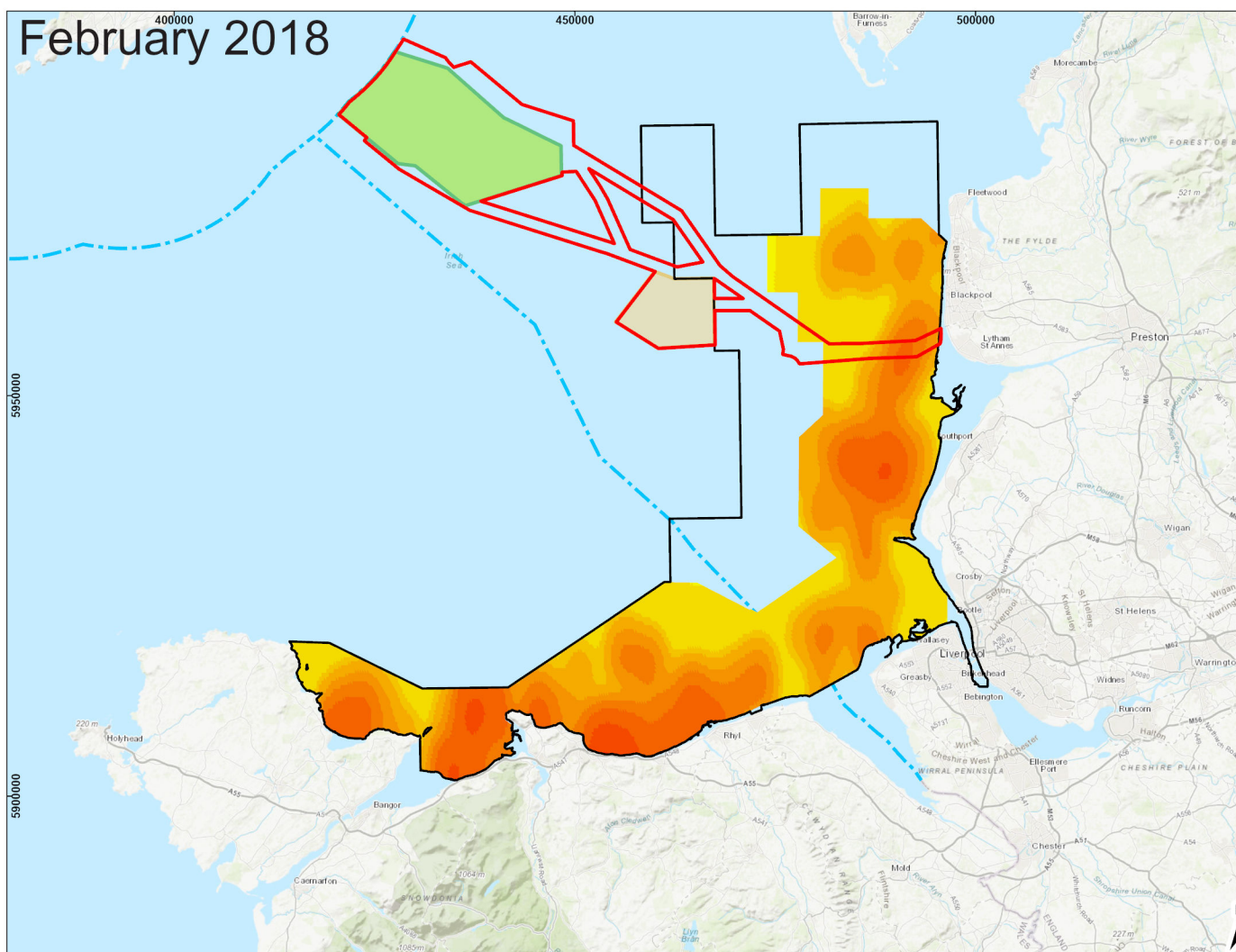
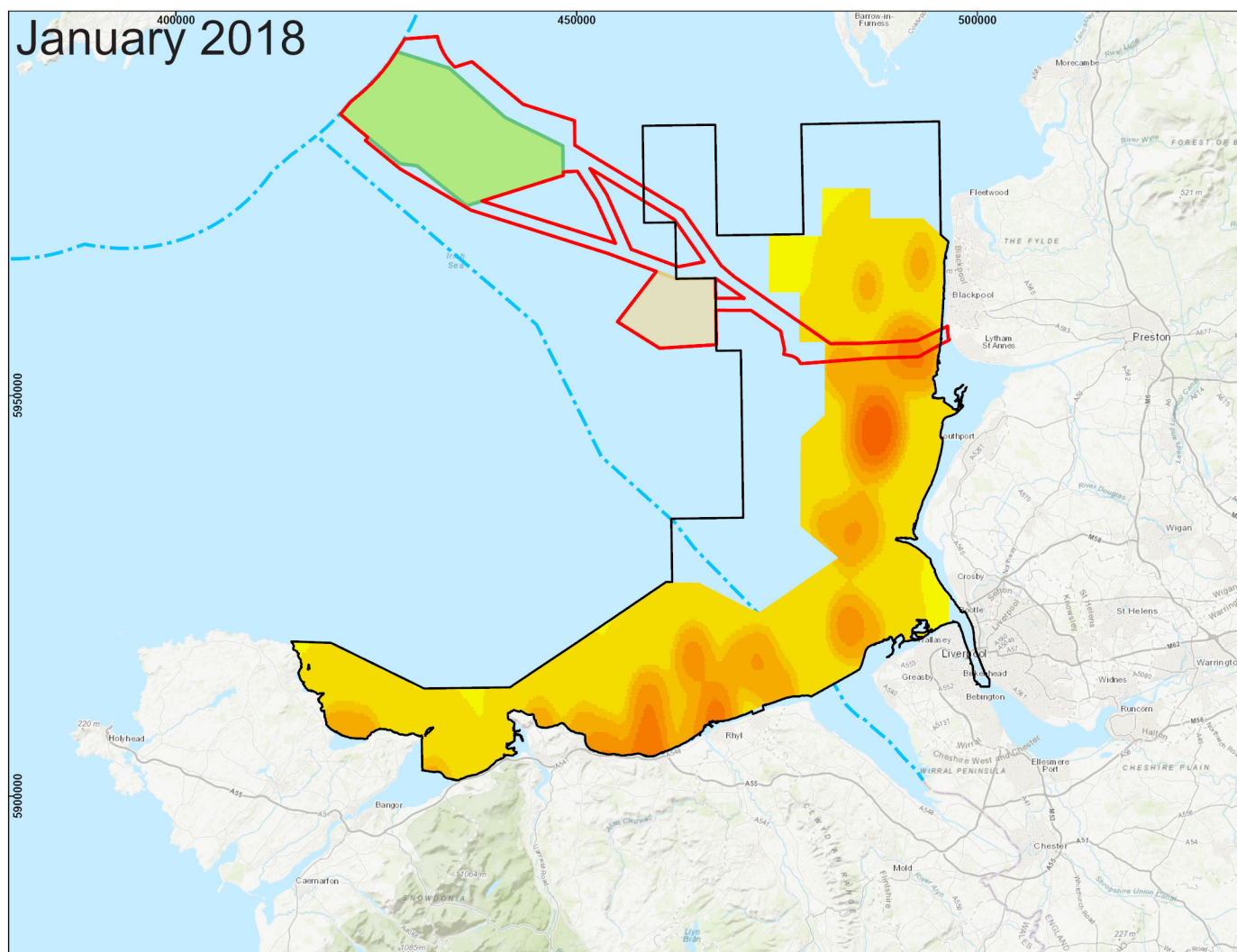
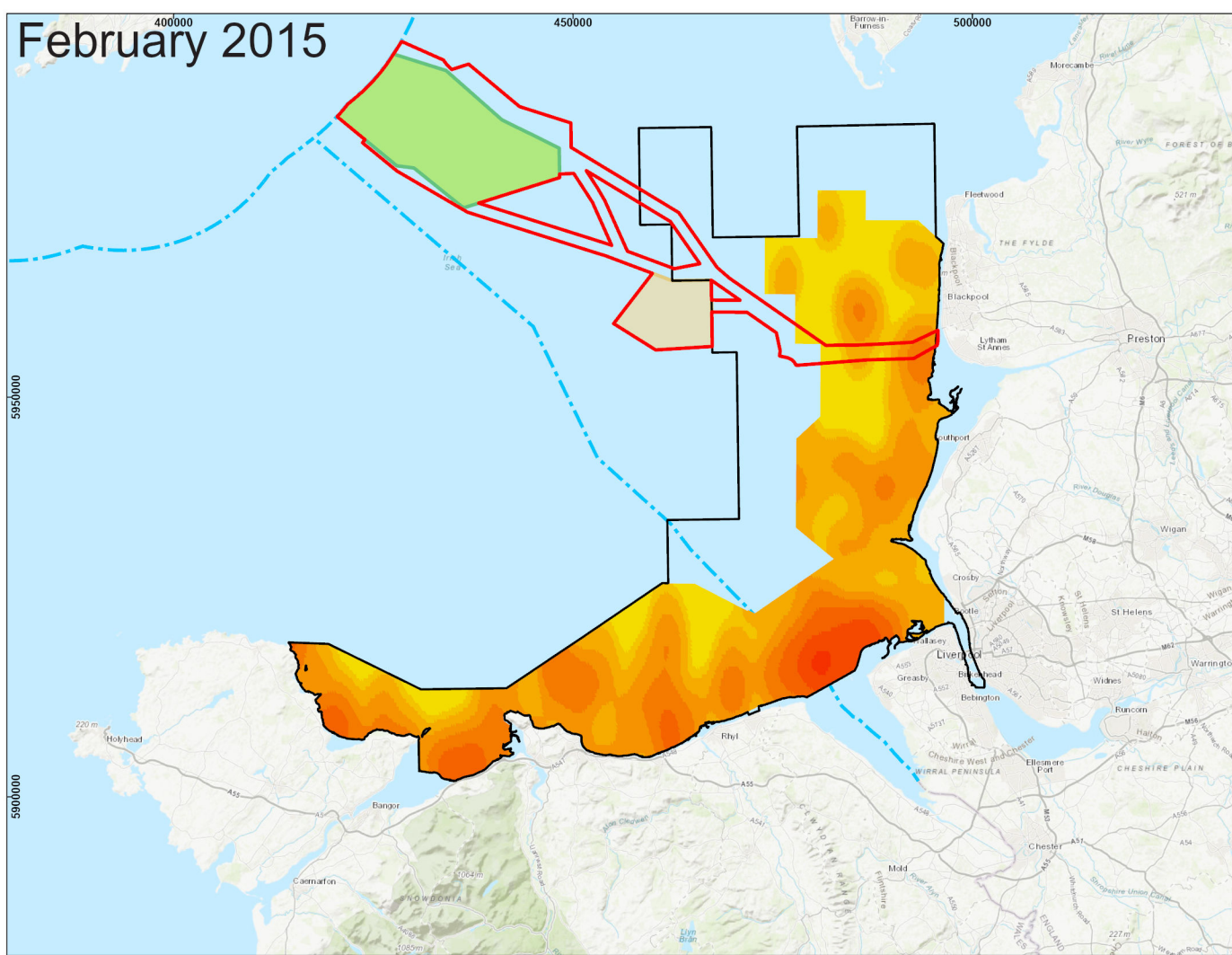
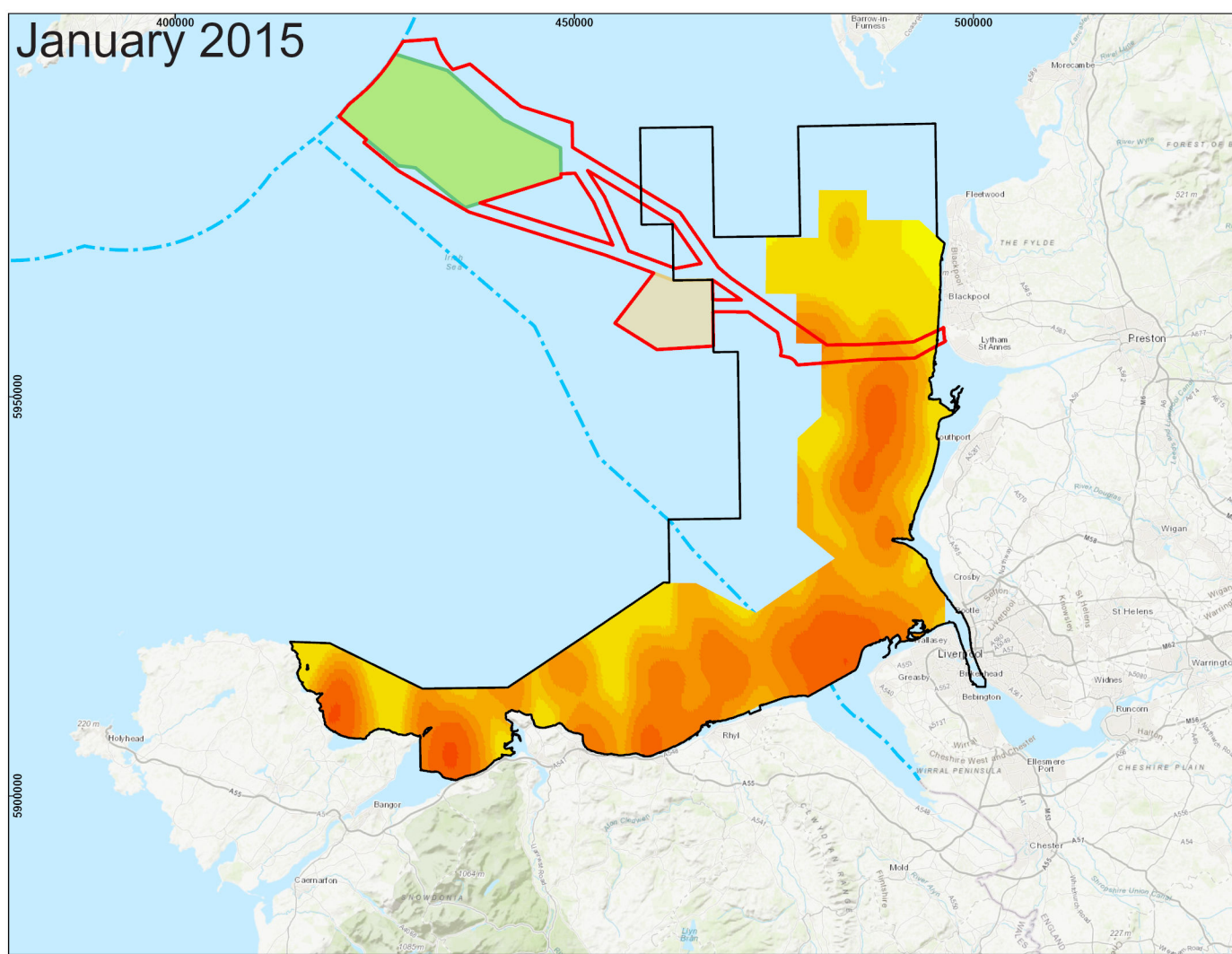


Geodetic Information:
 Datum: ETRS 1989
 Projection: ETRS 1989 UTM Zone 30N
 Scale@379mmx231mm: 1:610,352

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org

Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
 World Topographic Map: Esri, HERE, Garmin, USGS, IGA

VER	DATE	DETAILS	BY	CHECK
01	16/04/24	Final Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE



LEGEND

- Jurisdictional Boundary
- Morgan and Morecambe Offshore Windfarms:
 - Transmission Assets
 - Order Limits
- Morgan Offshore Wind Project:
 - Generation Assets
- Morecambe Offshore Windfarm:
 - Generation Assets
- Liverpool Bay SPA

Red-throated diver density (birds/km²)

- 0
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.5
- 0.51 - 1
- 1.01 - 2
- 2.01 - 5
- 5.01 - 10
- 10.01 - 20
- 20.01 - 50
- > 50

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title: Monthly density surfaces for red-throated diver in Liverpool Bay (HiDef Aerial Surveying Limited, 2023)



Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:850,000

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Natural England

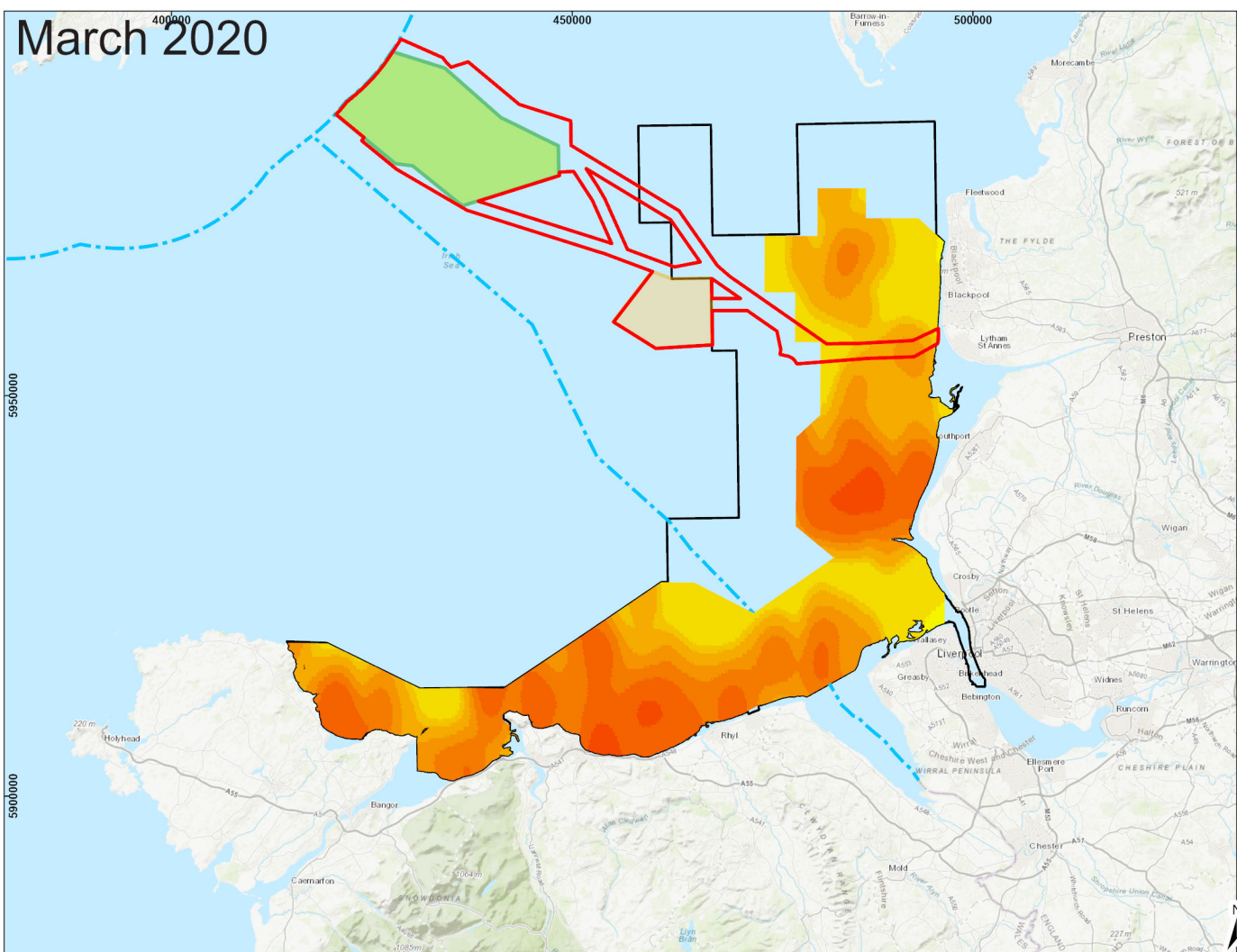
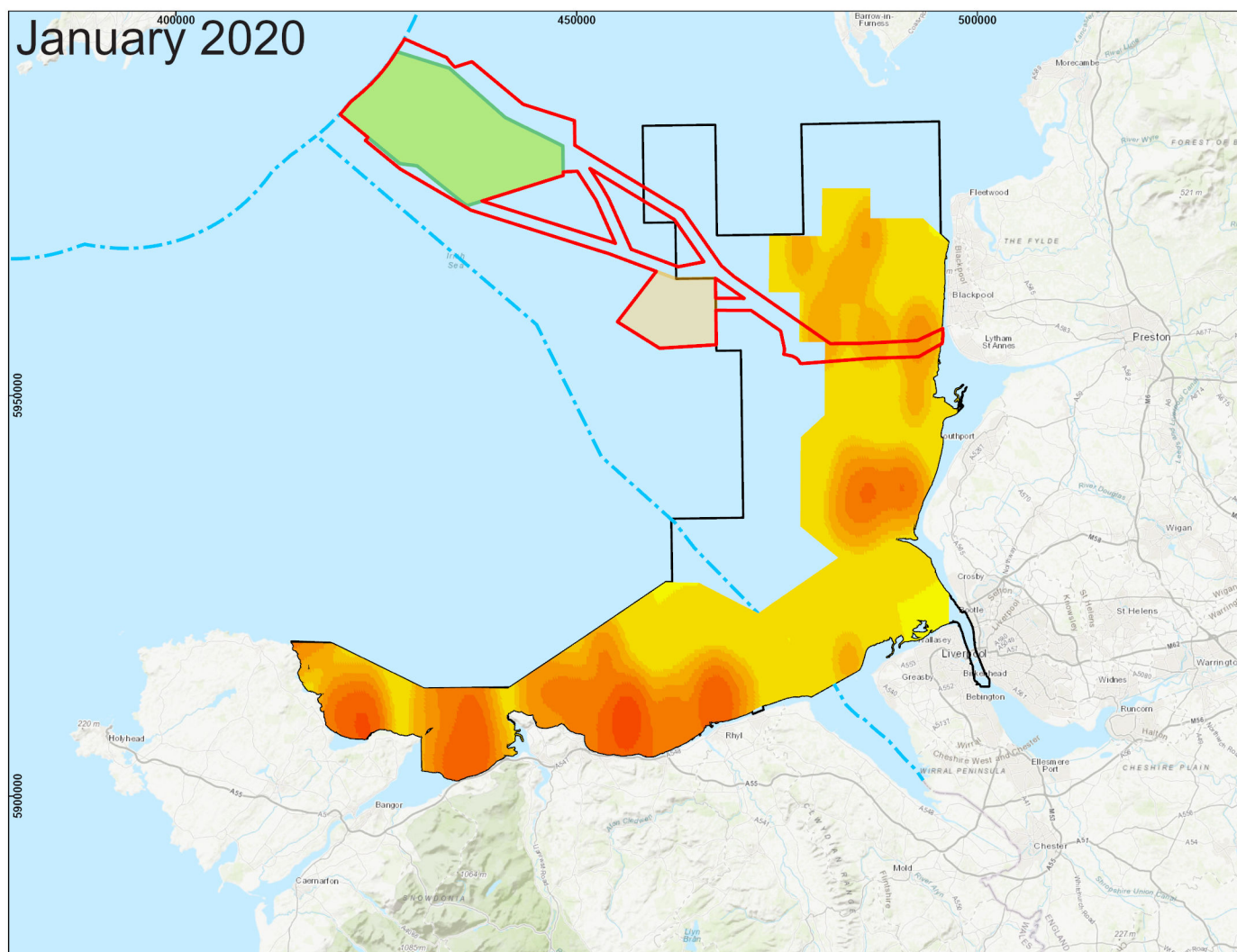
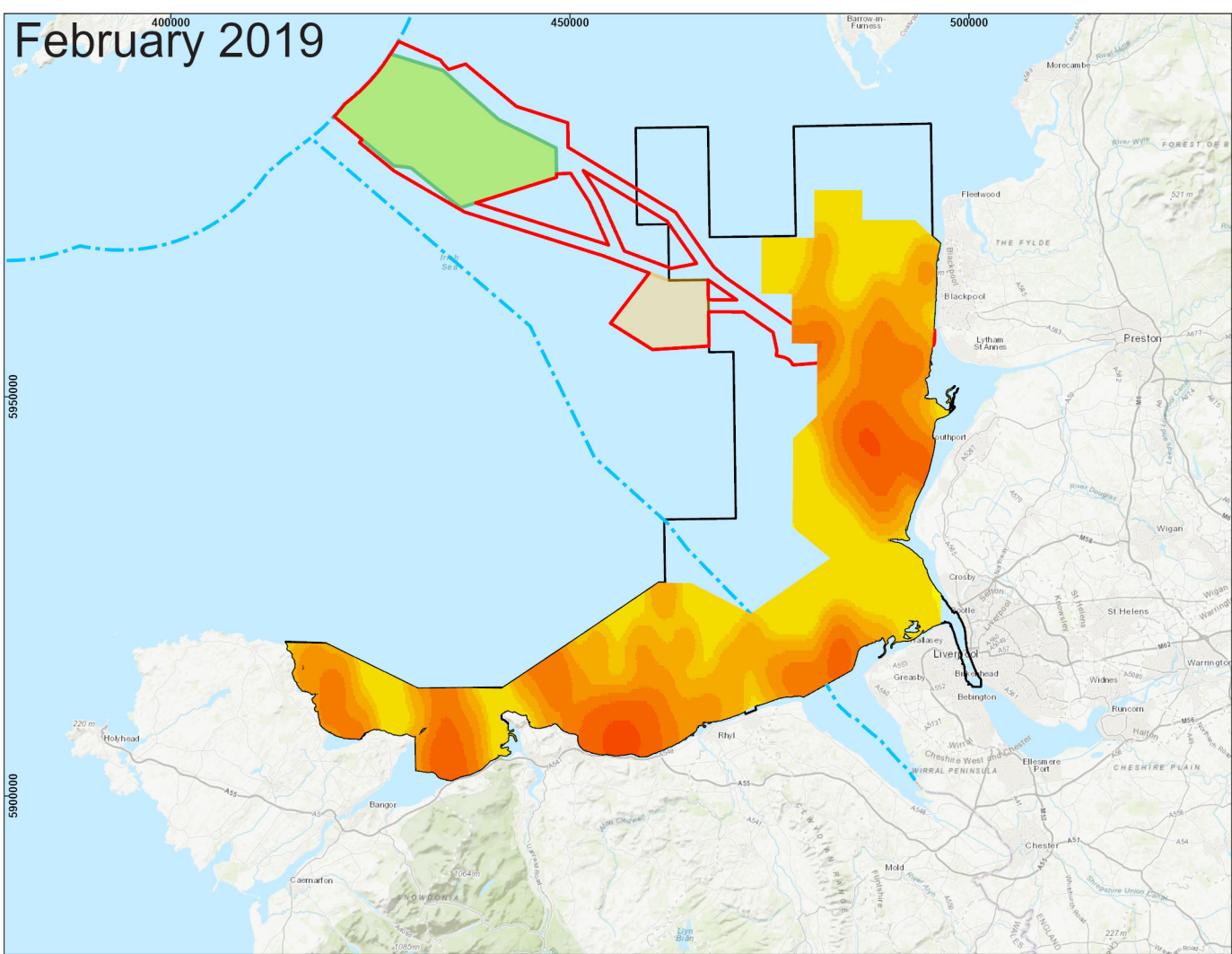
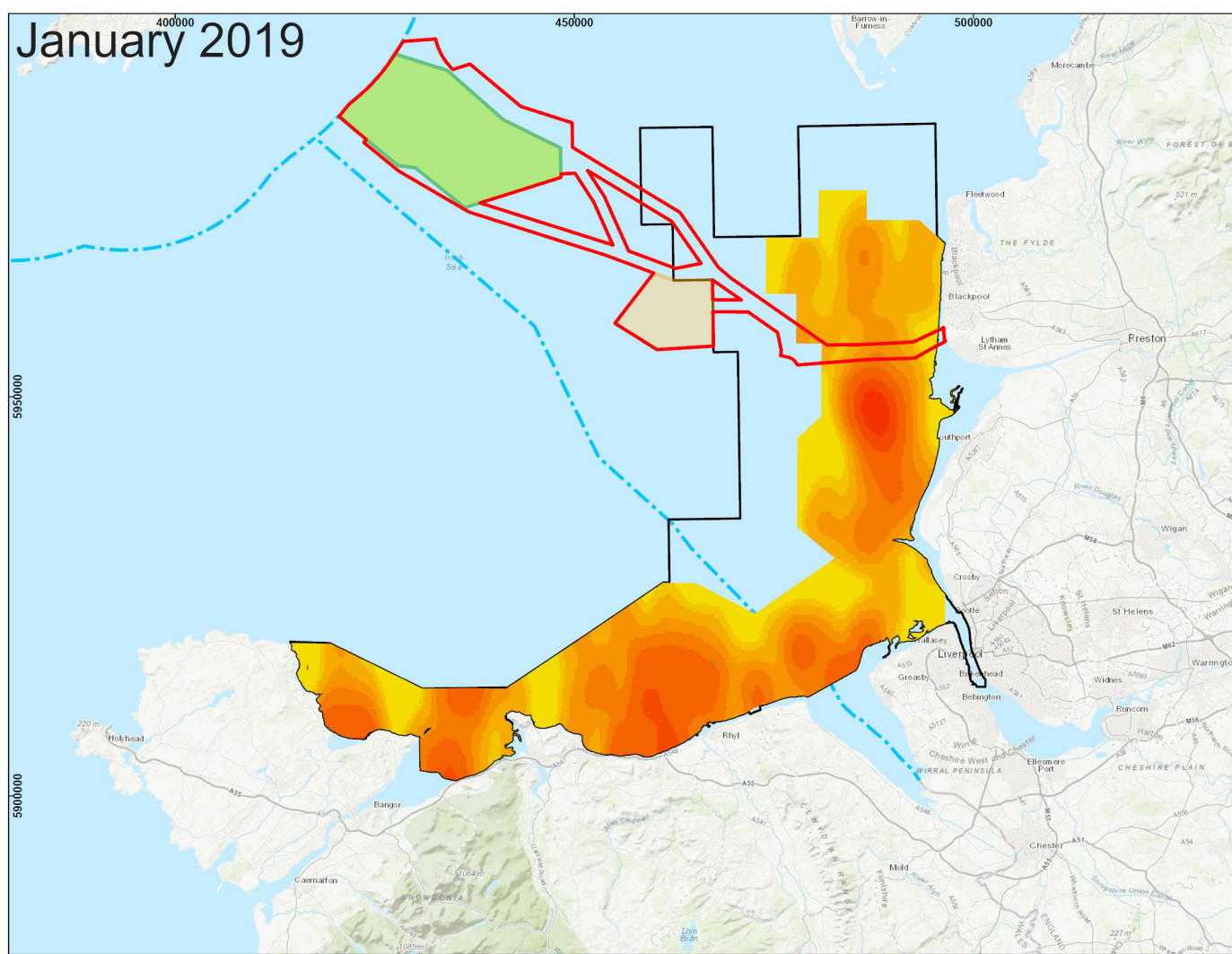
Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS; World topographic map: DoH, OS, Esri, HERE, Garmin, USGS, IGA



Figure 5.6

Drawing Number:
RPSE-ES-TEM-001-08

VER	DATE	DETAILS	BY	CHECK
00	10/05/24	Initial Issue	HAZ	RWA
01	13/09/24	Final Issue	JOSW	WIGE



- LEGEND**
- Jurisdictional Boundary
 - Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits – Offshore
 - Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits
 - Morgan Offshore Wind Project: Generation Assets
 - Morecambe Offshore Windfarm: Generation Assets
 - Liverpool Bay SPA

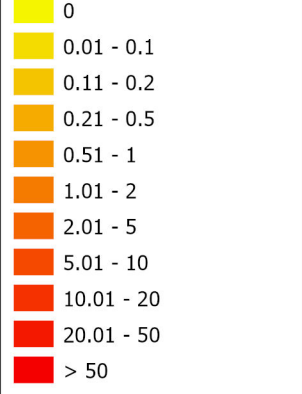
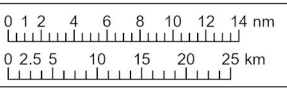


Figure 5.7
 Drawing Number:
 RPSE-ES-TEM-001-08

Project Name:
 MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title: Monthly density surfaces for red-throated diver in Liverpool Bay (HiDef Aerial Surveying Limited, 2023)

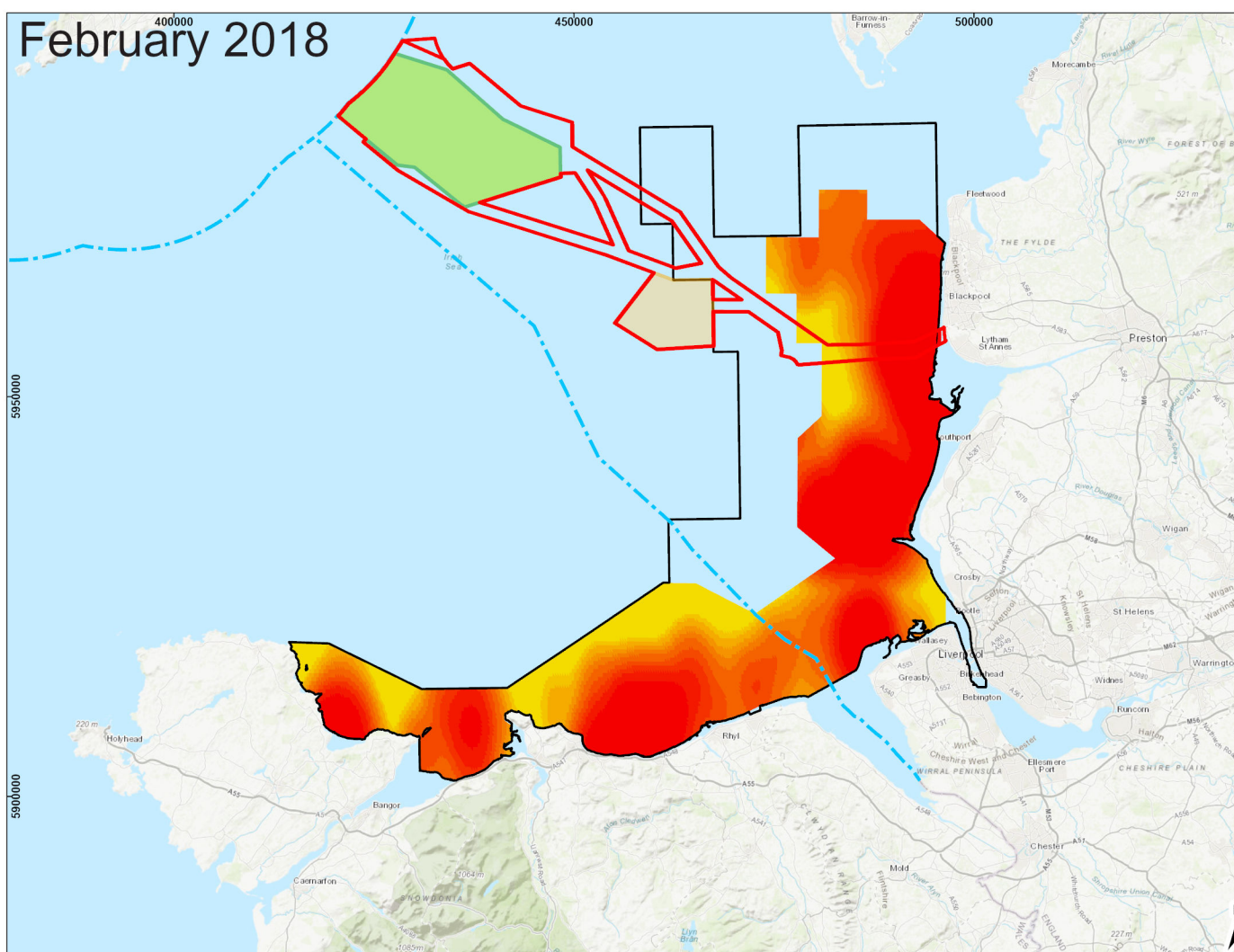
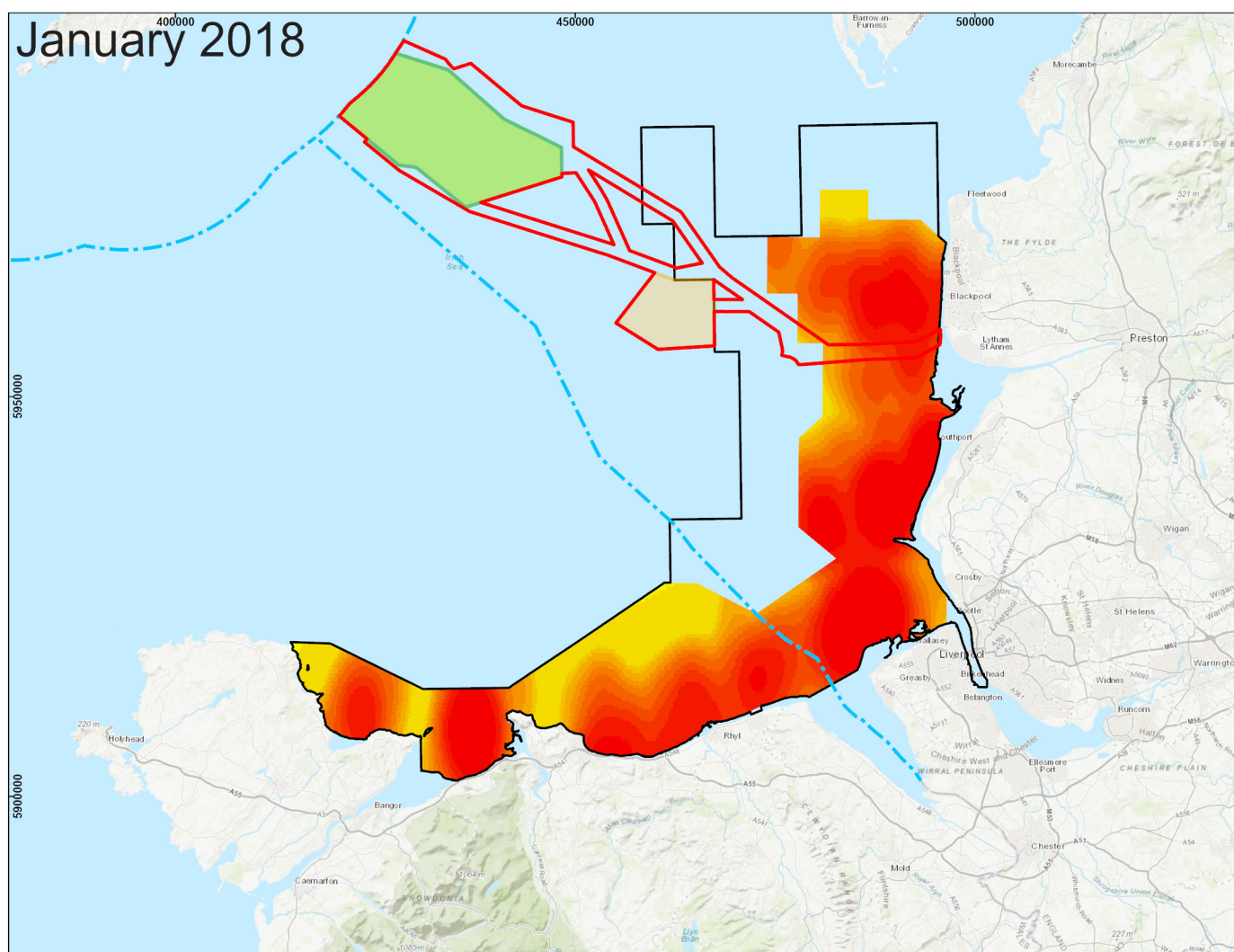
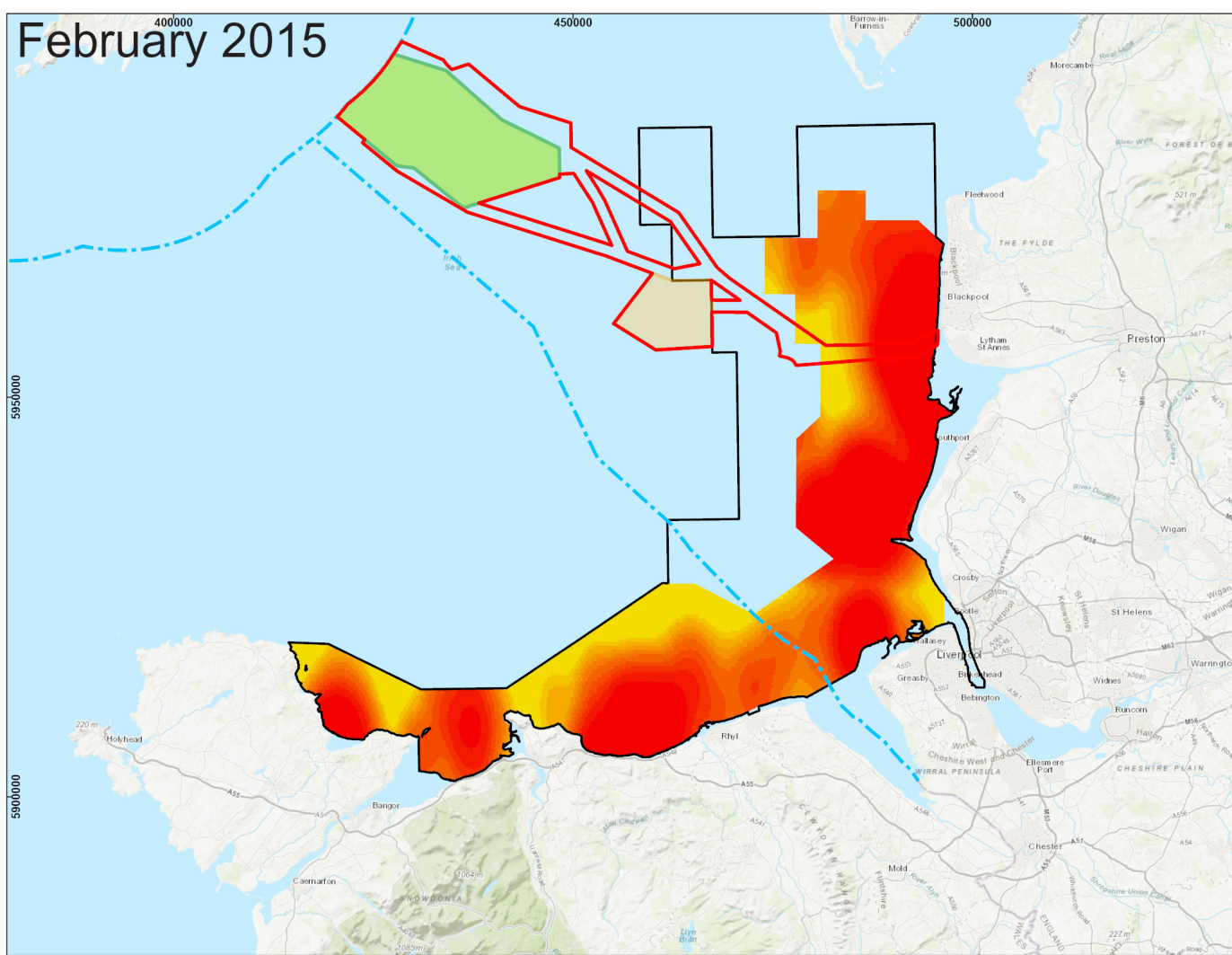
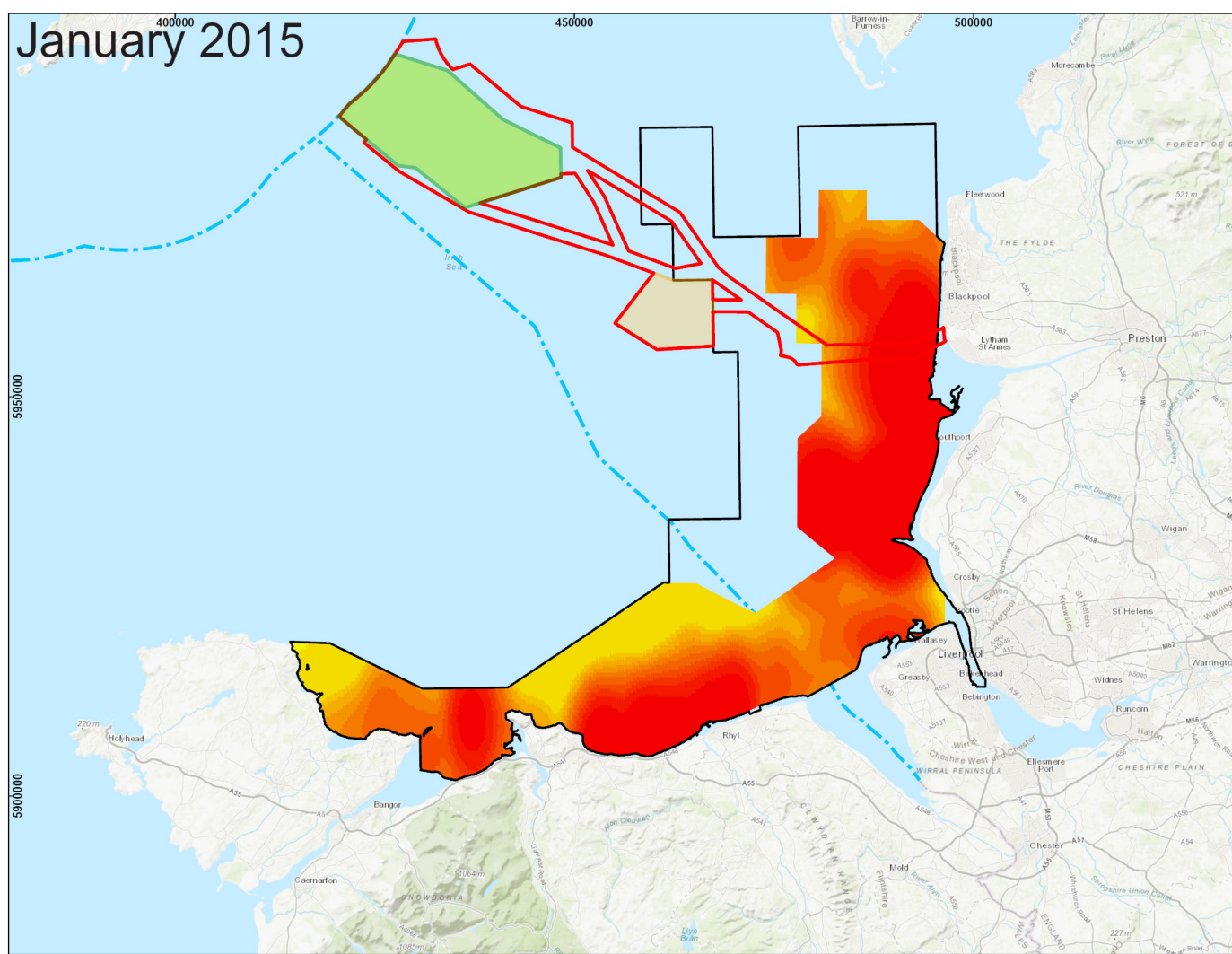


Geodetic Information:
 Datum: ETRS 1989
 Projection: ETRS 1989 UTM Zone 30N
 Scale@379mmx231mm: 1:850,000

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Natural England

Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
 World Topographic Map: Esri, HERE, Garmin, FAO, USGS
 World Topographic Map: DoH, OS, Esri, HERE, Garmin, USGS, NGA

VER	DATE	DETAILS	BY	CHECK
00	10/05/24	Initial Issue	HAZ	RWA
01	13/09/24	Final Issue	JOSW	WIGE



LEGEND

- Jurisdictional Boundary
- Morgan and Morecambe Offshore
- Windfarms:
- Transmission Assets
- Order Limits – Offshore
- Morgan Offshore Wind
- Project: Generation Assets
- Morgan and Morecambe Offshore
- Windfarms:
- Transmission Assets
- Order Limits
- Morecambe Offshore
- Windfarm: Generation Assets
- Liverpool Bay SPA

Common scoter densities (birds/km²)

- 0
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.5
- 0.51 - 1
- 1.01 - 2
- 2.01 - 5
- 5.01 - 10
- 10.01 - 20
- 20.01 - 50
- > 50



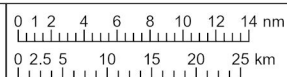
Figure 5.8

Drawing Number:

RPSE-ES-TEM-001-08

Project Name:
MORGAN AND MORECAMBE OFFSHORE
WIND FARMS: TRANSMISSION ASSETS

Drawing Title: Monthly density surfaces for common scoter in Liverpool Bay (HiDef Aerial Surveying Limited, 2023)

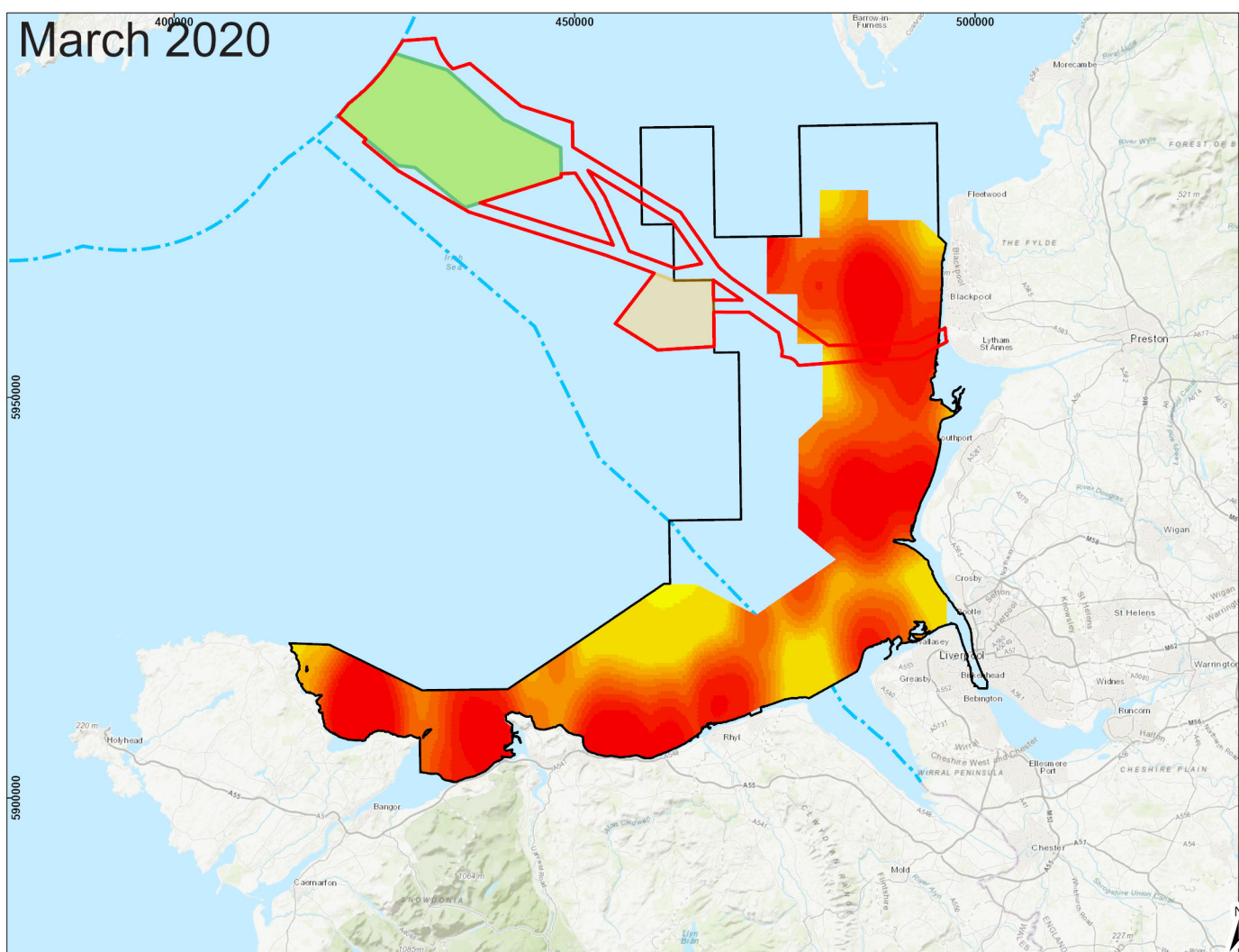
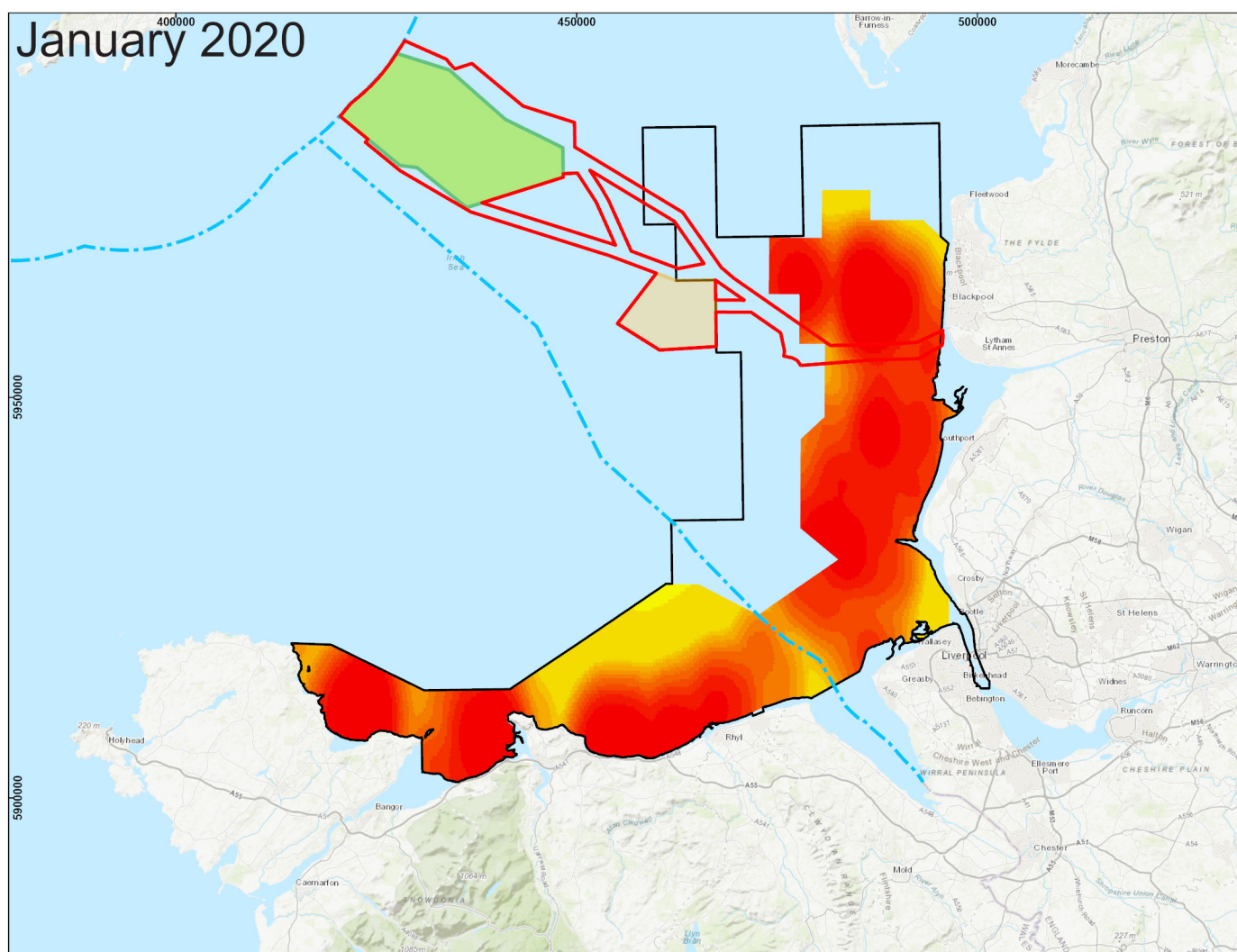
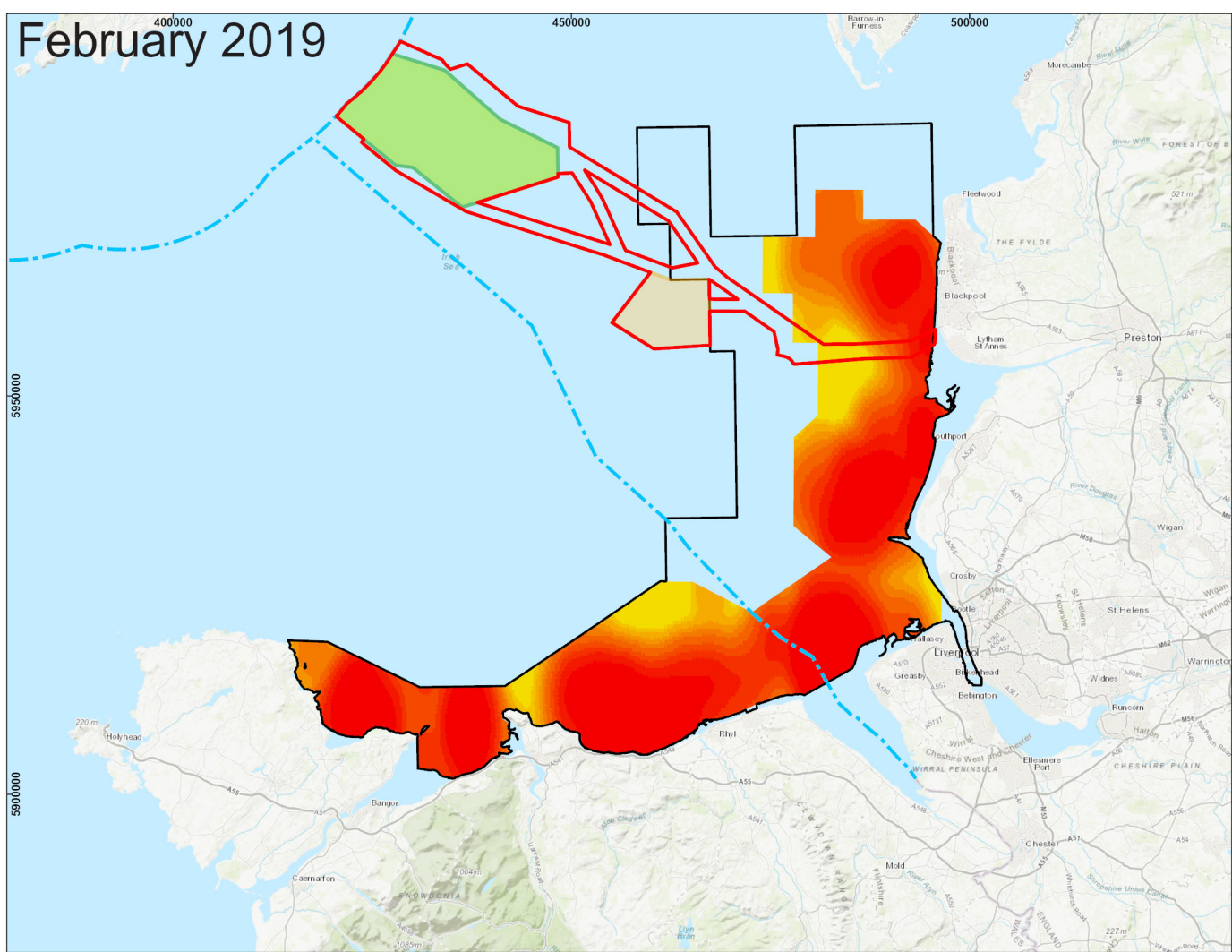
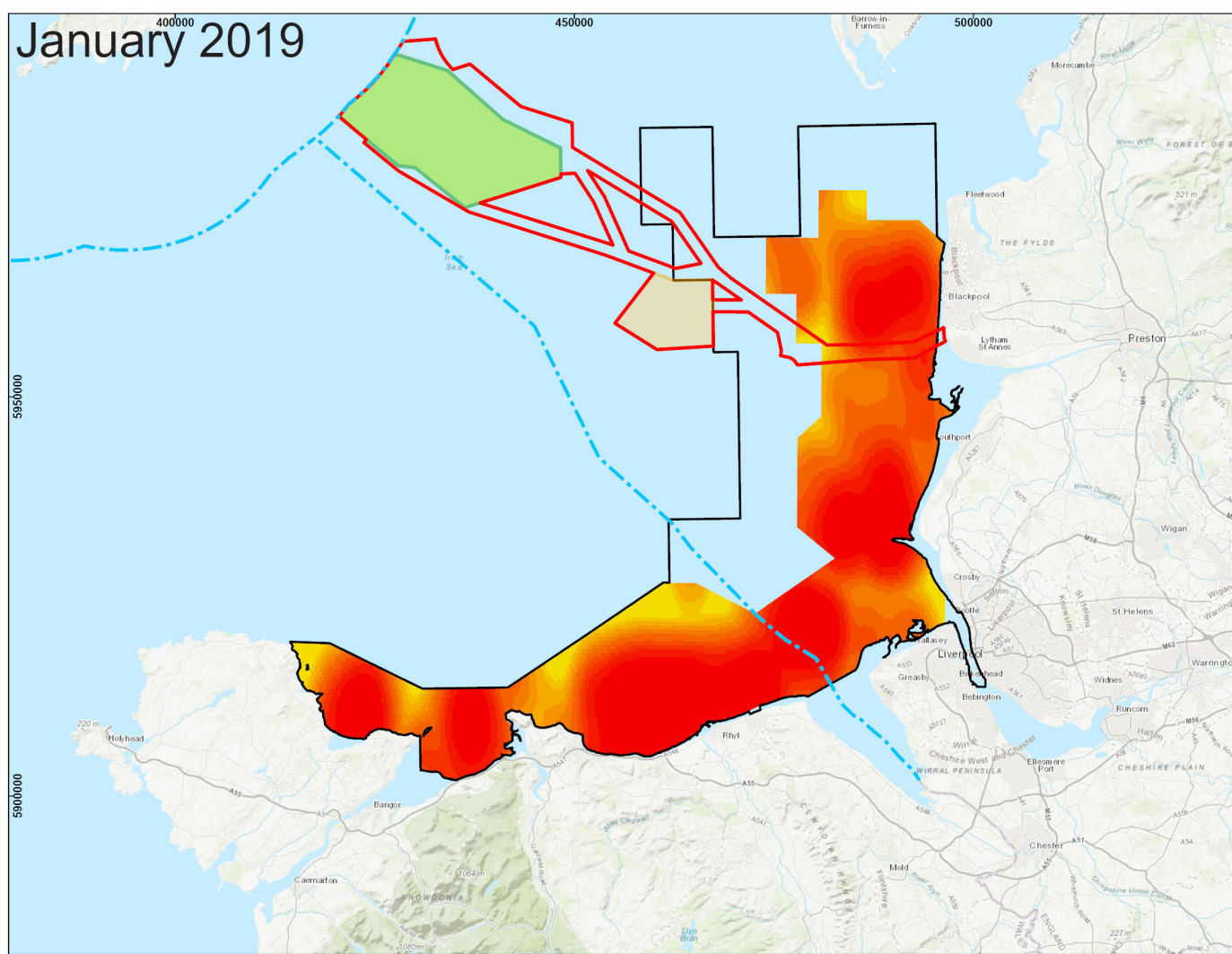


Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:850,000

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Natural England

Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
World Topographic Map: Esri, HERE, Garmin, FAO, USGS
World Topographic Map: DoH, OS, Esri, HERE, Garmin, USGS, NGA

VER	DATE	DETAILS	BY	CHECK
00	10/05/24	Initial Issue	HAZ	RWA
01	13/09/24	Final Issue	JOSW	WIGE



LEGEND

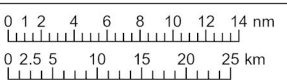
- Jurisdictional Boundary
- Morgan and Morecambe Offshore Windfarms: Transmission Assets Order Limits
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Liverpool Bay SPA

Common scoter densities (birds/km²)

- 0
- 0.01 - 0.1
- 0.11 - 0.2
- 0.21 - 0.5
- 0.51 - 1
- 1.01 - 2
- 2.01 - 5
- 5.01 - 10
- 10.01 - 20
- 20.01 - 50
- > 50

Project Name:
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Drawing Title: Monthly density surfaces for common scoter in Liverpool Bay (HiDef Aerial Surveying Limited, 2023)



Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:850,000

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Natural England

Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
World Topographic Map: DoH, OS, Esri, HE, FAO, USGS, RE, Garmin, USGS, NGA



Figure 5.9
Drawing Number:
RPSE-ES-TEM-001-08

VER	DATE	DETAILS	BY	CHECK
00	10/05/24	Initial Issue	HAZ	RWA
01	13/09/24	Final Issue	JOSW	WIGE