

MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Environmental Statement

Volume 2, Figures - Part 3 of 5



June 2025
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MRCNS-J3303-RPS-10161

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F2.10//F02

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ES01	S51 advice update	AS	December 2024	IM	December 2024
F02	Deadline 2	HK	June 2025	IM	June 2025

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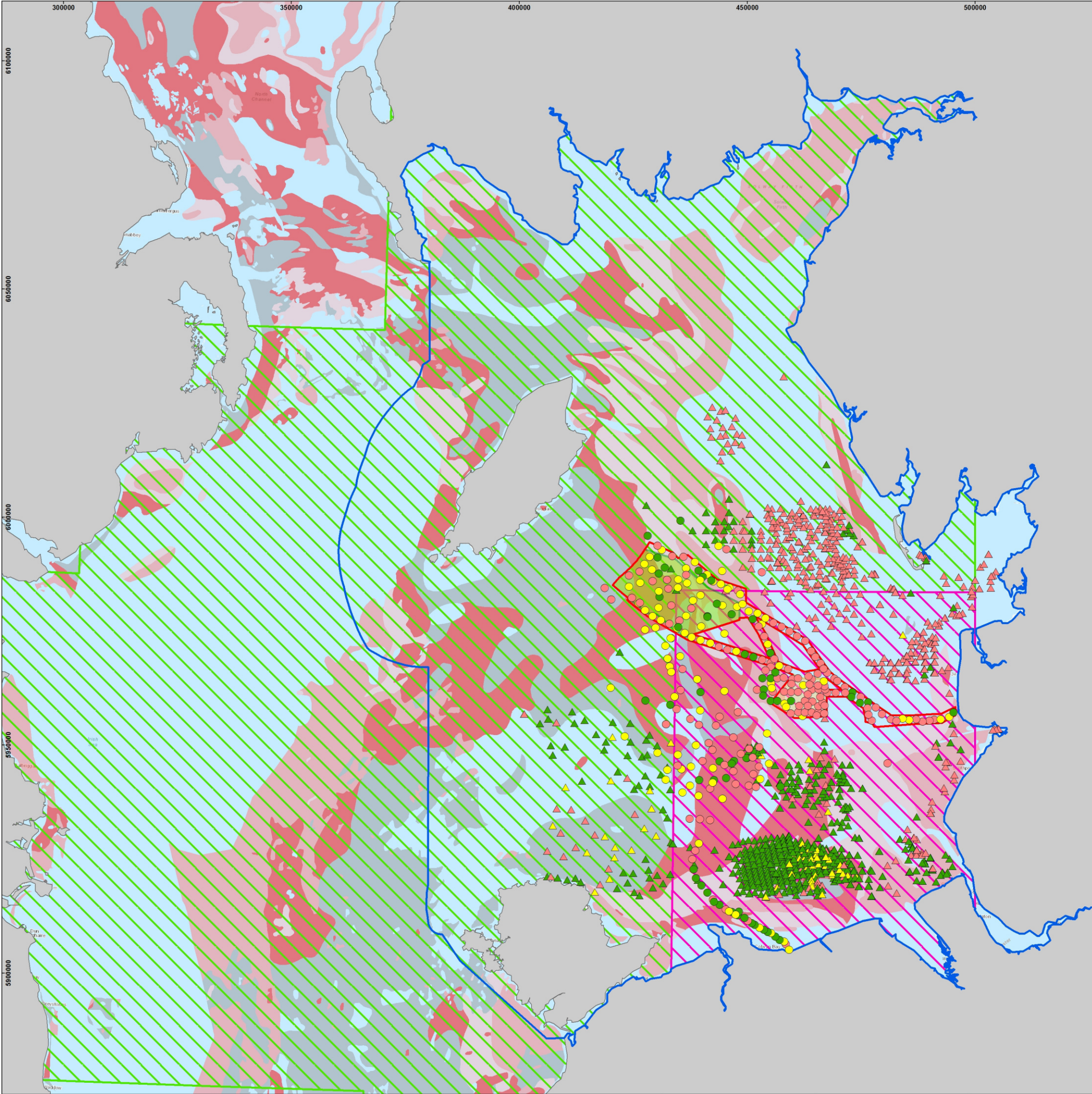
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Prepared by:

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



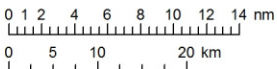
Figure 3.5

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)

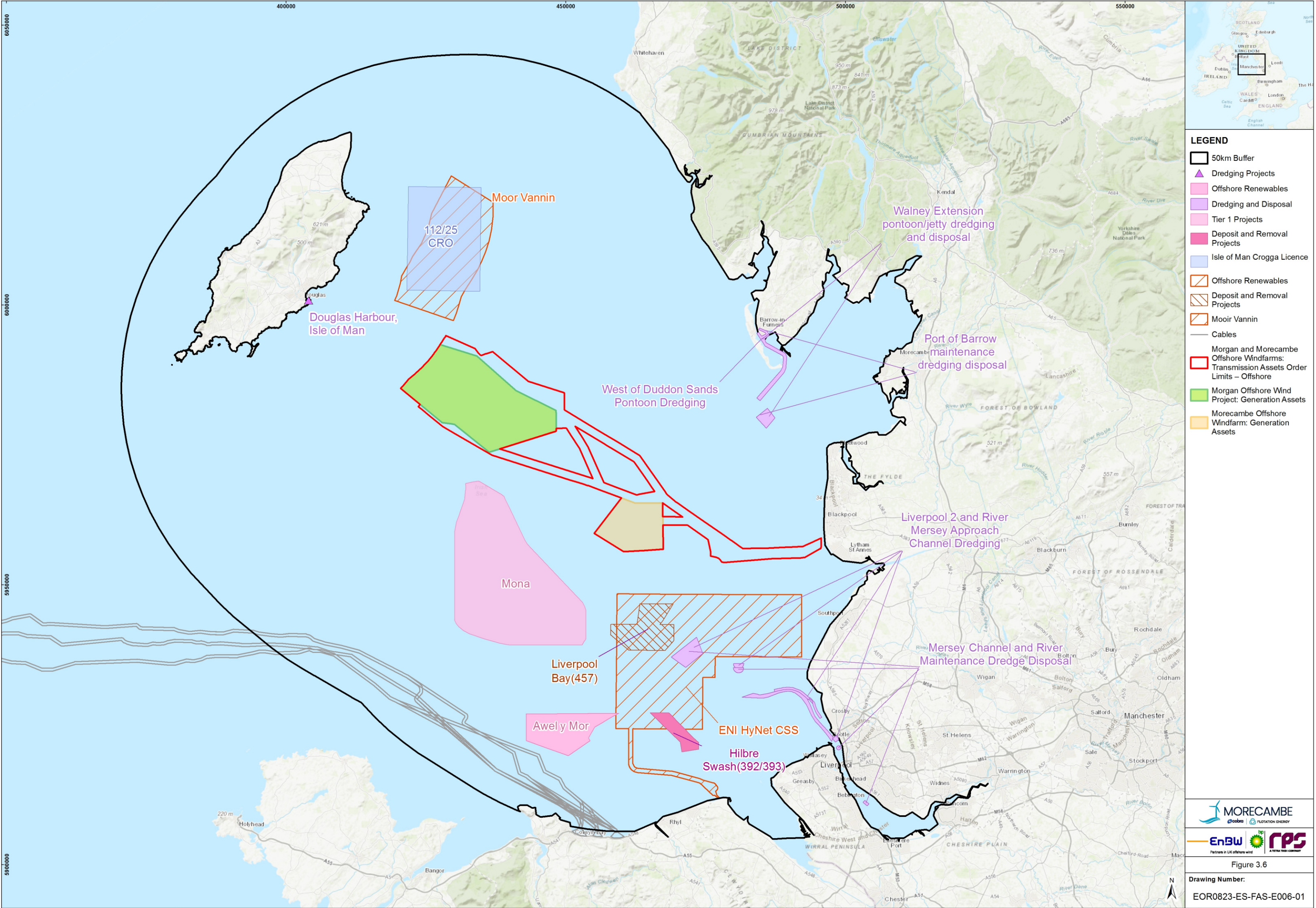


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Projection: ETRS 1989 UTM Zone 30N
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Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org, Marine Scotland, Natural Resources Wales, CEFAS, EMODnet

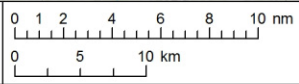
Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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



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

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



Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:575,000

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov, 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

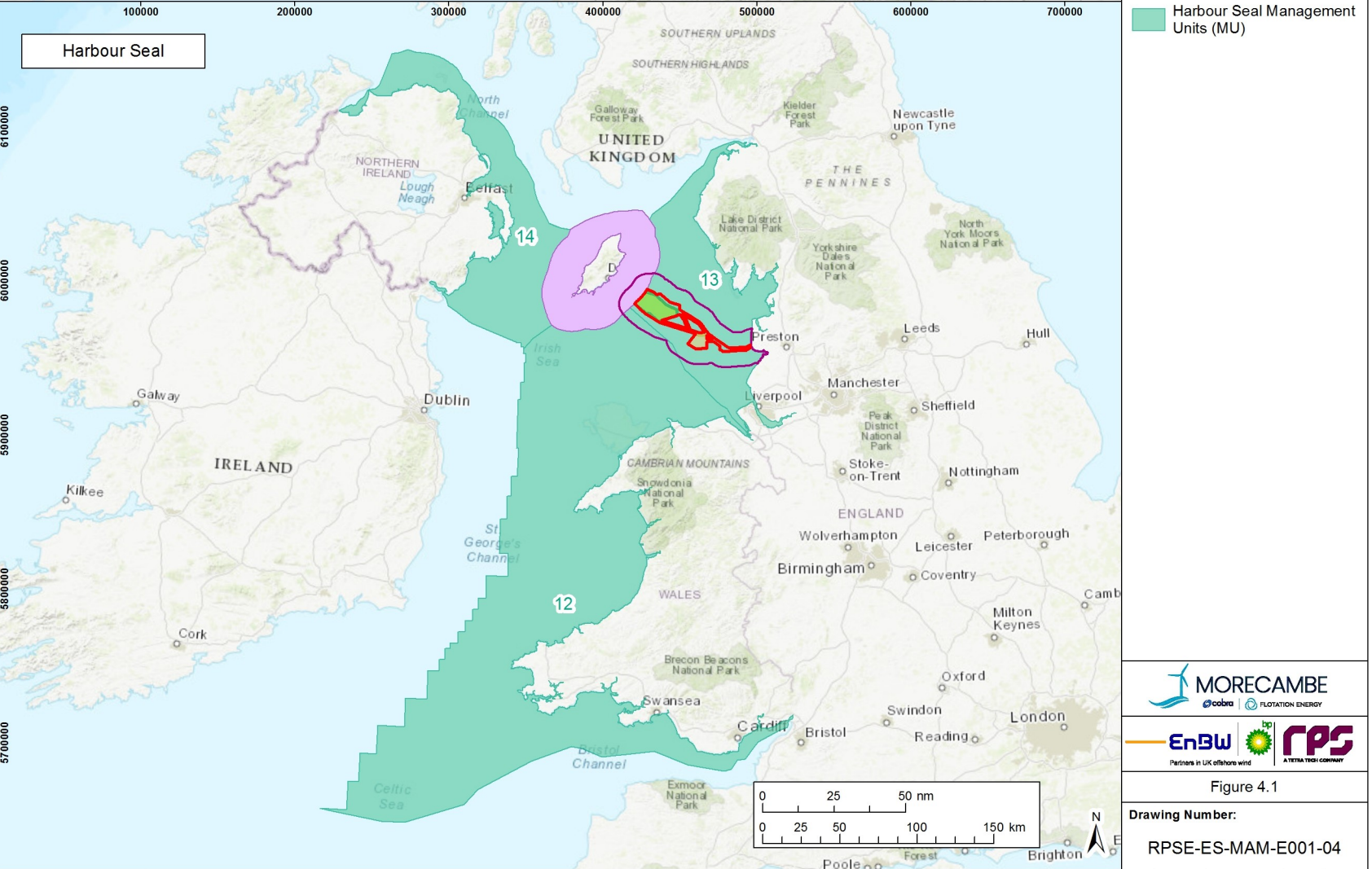
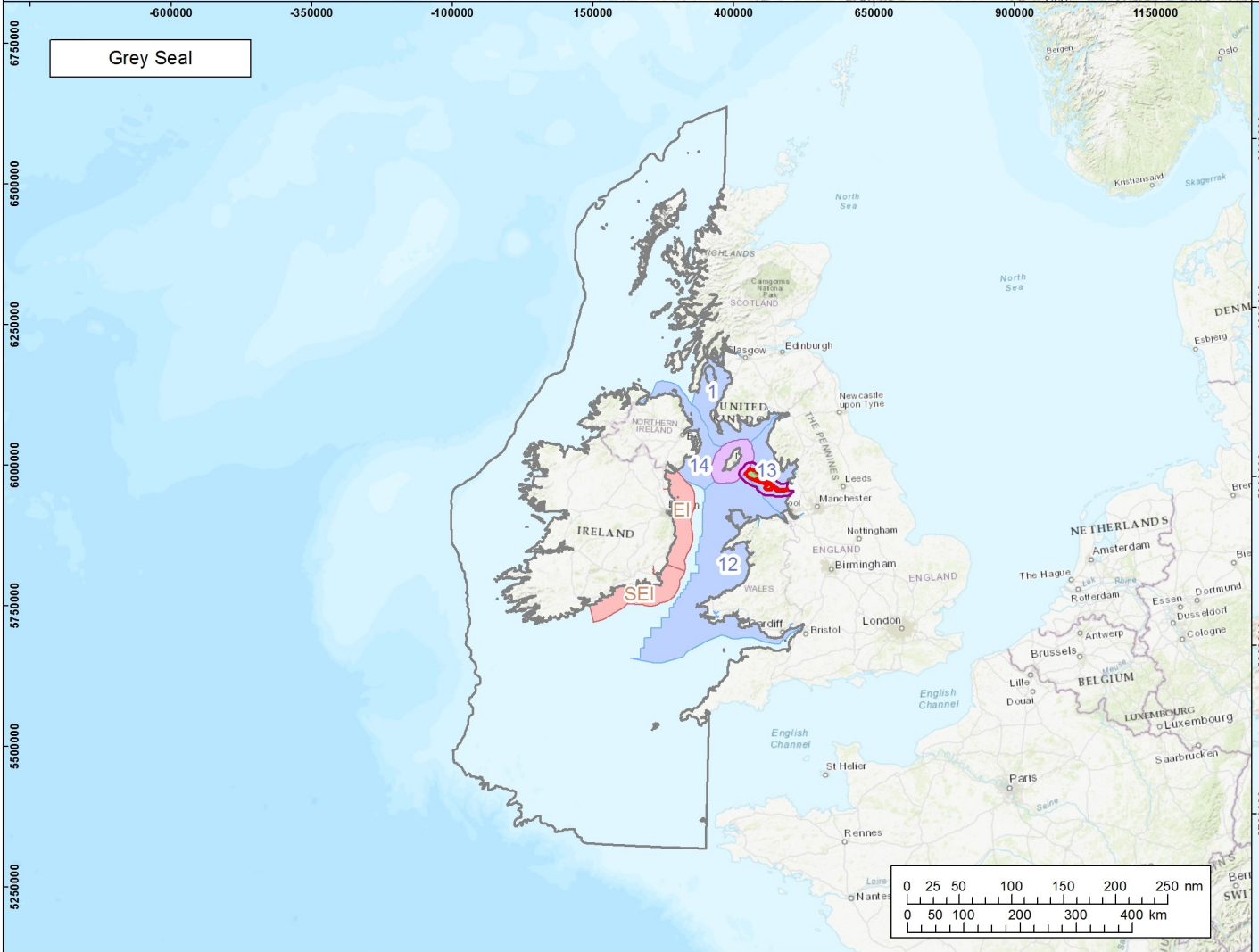
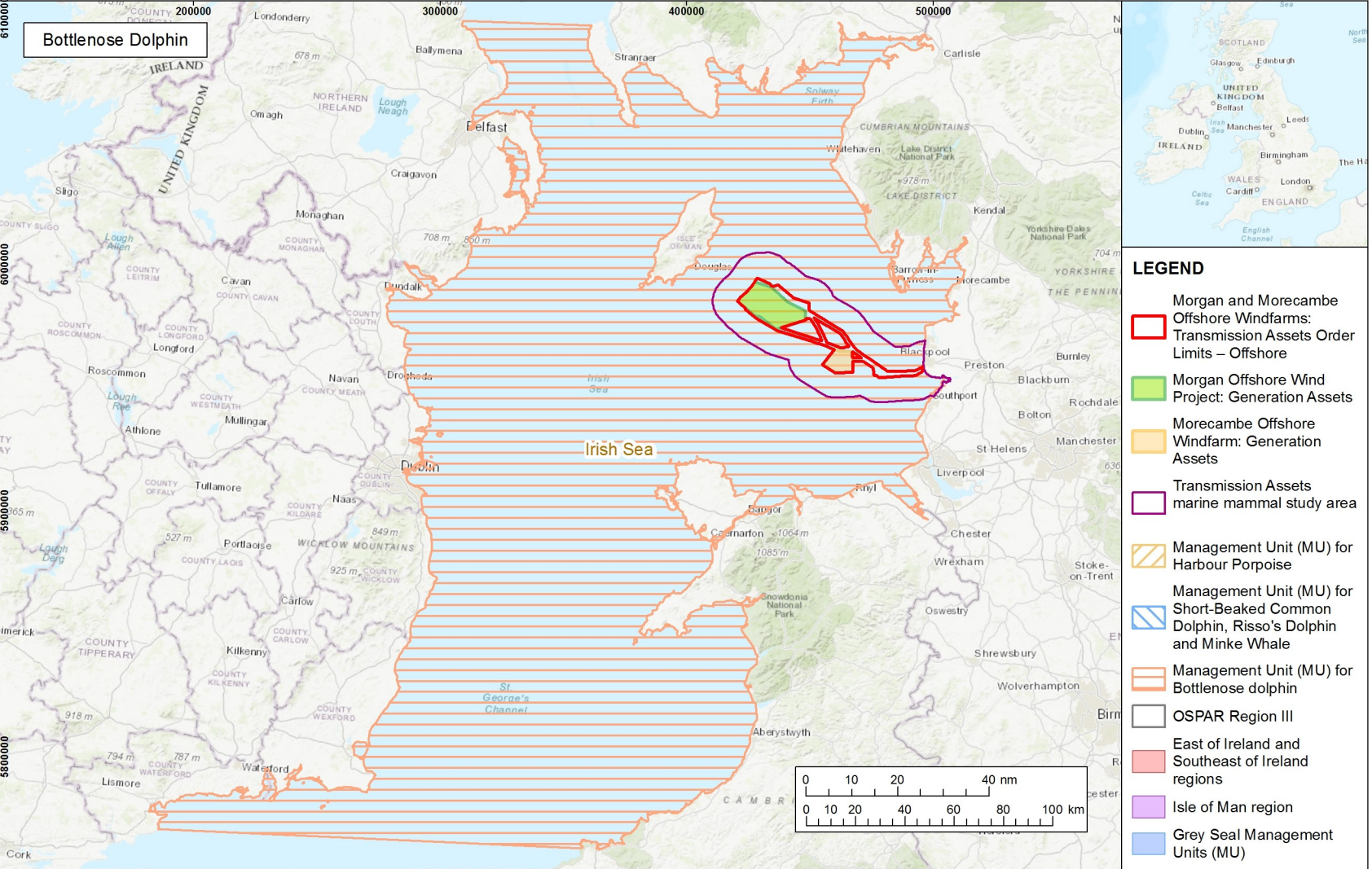
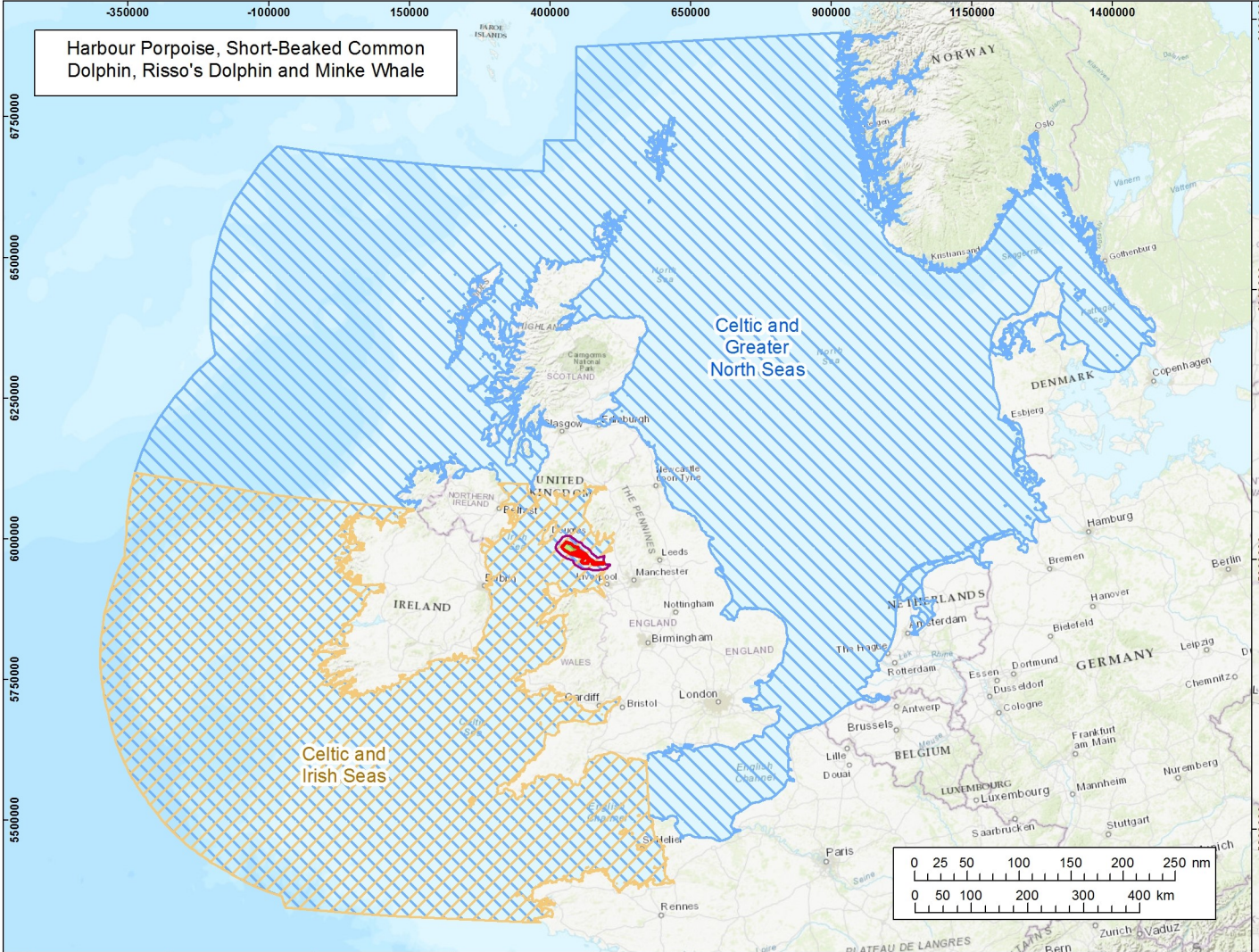
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VER	DATE	DETAILS	BY	CHECK
00	27/08/24	Initial Issue	MJ	TH
01	17/09/24	Final	MJ	BM

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

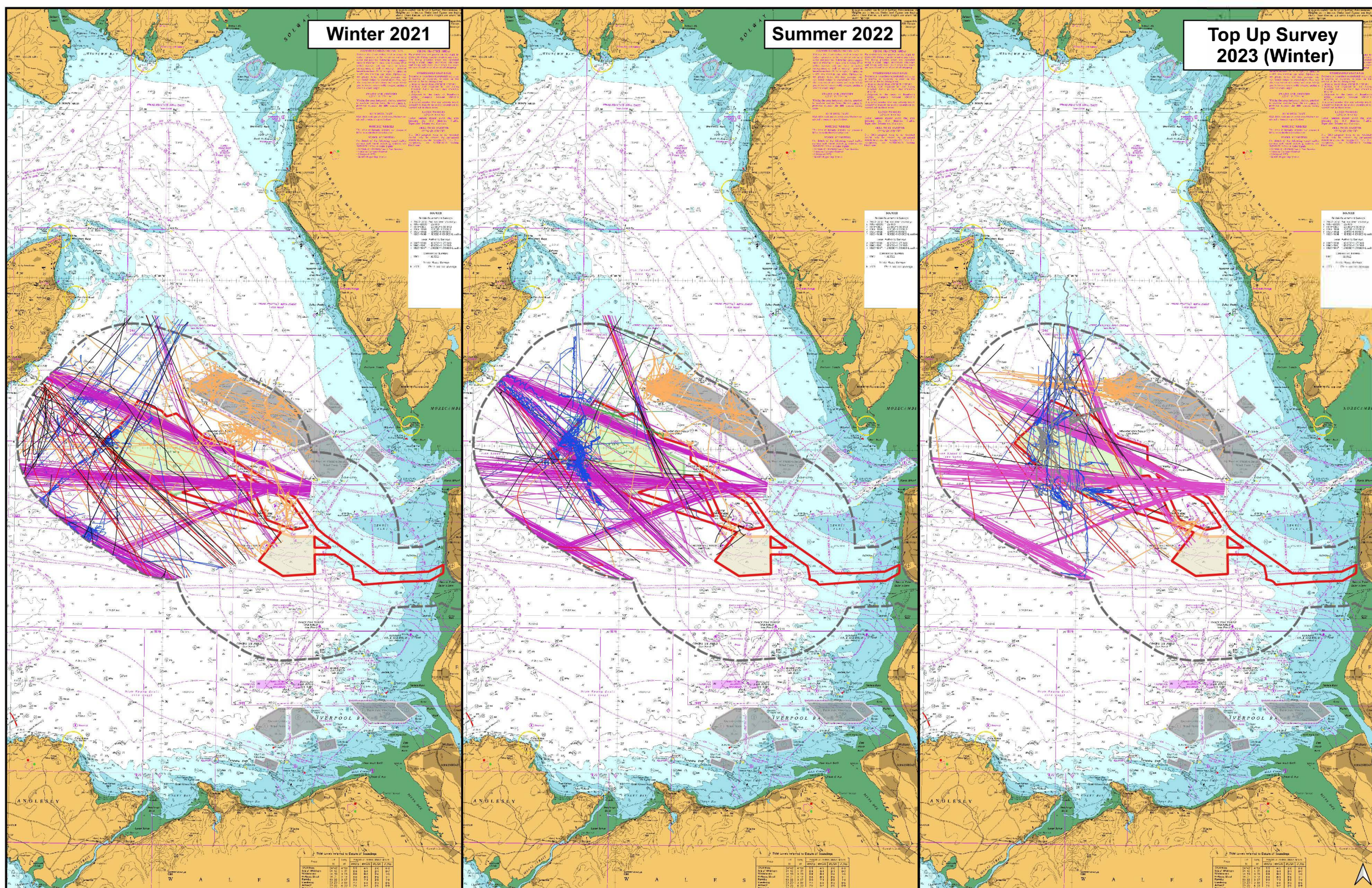
MORECAMBE
EnBW
FPS

Figure 3.6
Drawing Number:
EOR0823-ES-FAS-E006-01



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)



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

Figure 4.2

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

VER	DATE	DETAILS	BY	CHECK
00	18/09/24	FINAL	RM	AR
01	02/12/24	S51 update	RPS	RPS

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

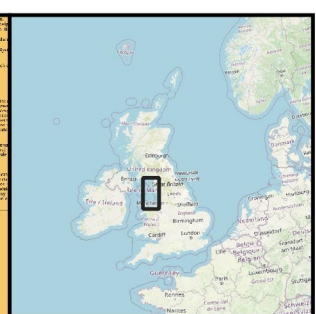
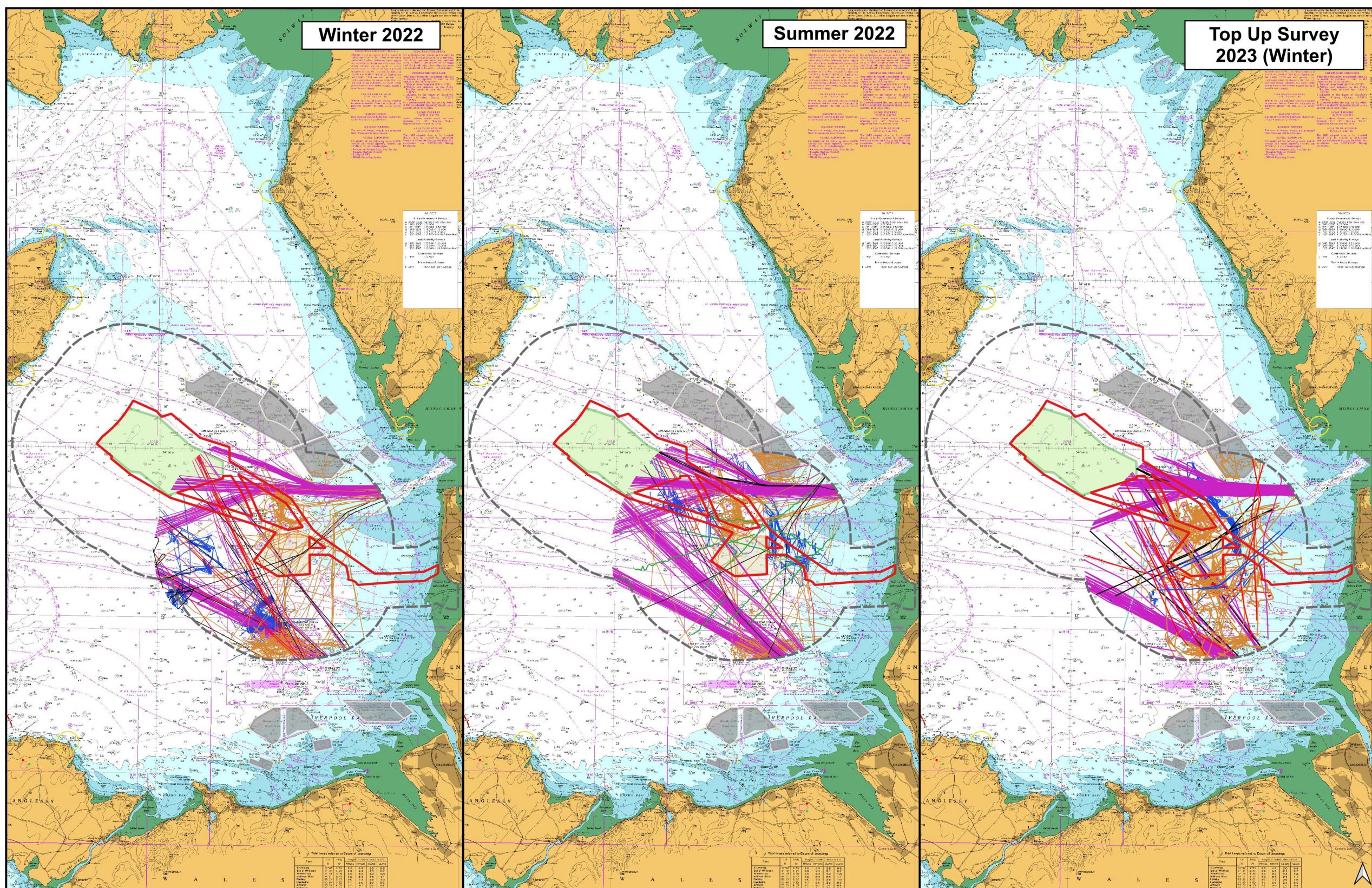
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Morgan Vessel Traffic Surveys

0 2 4 nm
0 5 10 km

Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:900,000

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

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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 & Service



Figure 4.3

Drawing Number:
NASH-MMTA-SN-039-00

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

Drawing Title:
Morecambe Vessel Traffic Surveys

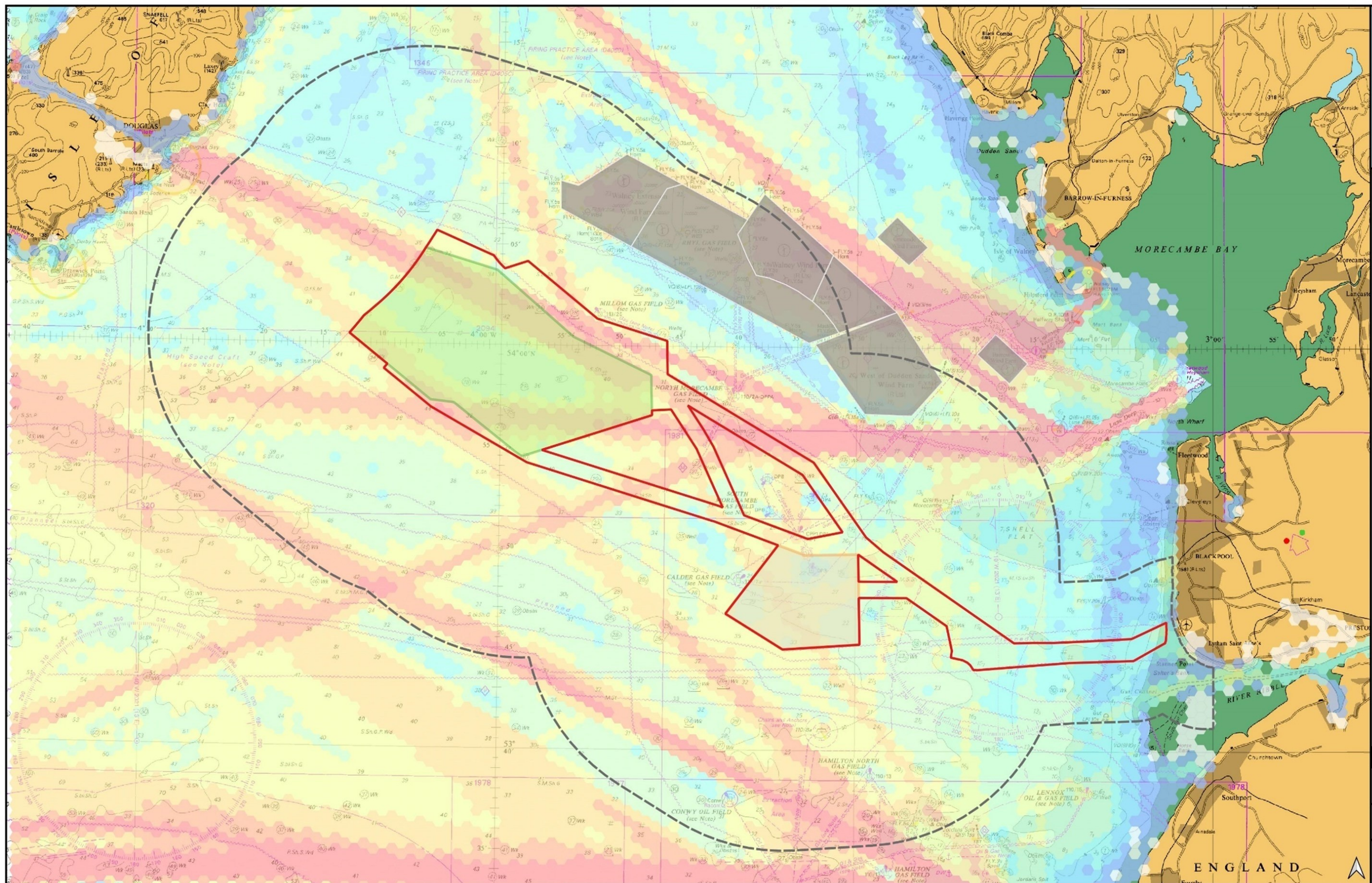
0 2 4 nm
0 5 10 km

Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm:1:900,000

Data Sources: Admiralty Charts 1826 & 1981;
DWFs from The Crown Estate; NASH Maritime
Traffic Survey Data 2022-2023

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01	18/09/24	FINAL	RA	AR
02	02/12/24	S51 update	RPS	RPS



- 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

- Transits / Year**
- <1
 - 1 - 10
 - 10 - 20
 - 20 - 40
 - 40 - 80
 - 80 - 160
 - 160 - 320
 - 320 - 640
 - > 640

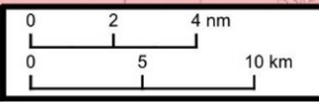
Figure 4.4



Drawing Number:
NASH-MMTA-SN-012-00

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

Drawing Title:
Vessel Traffic Density (2022)



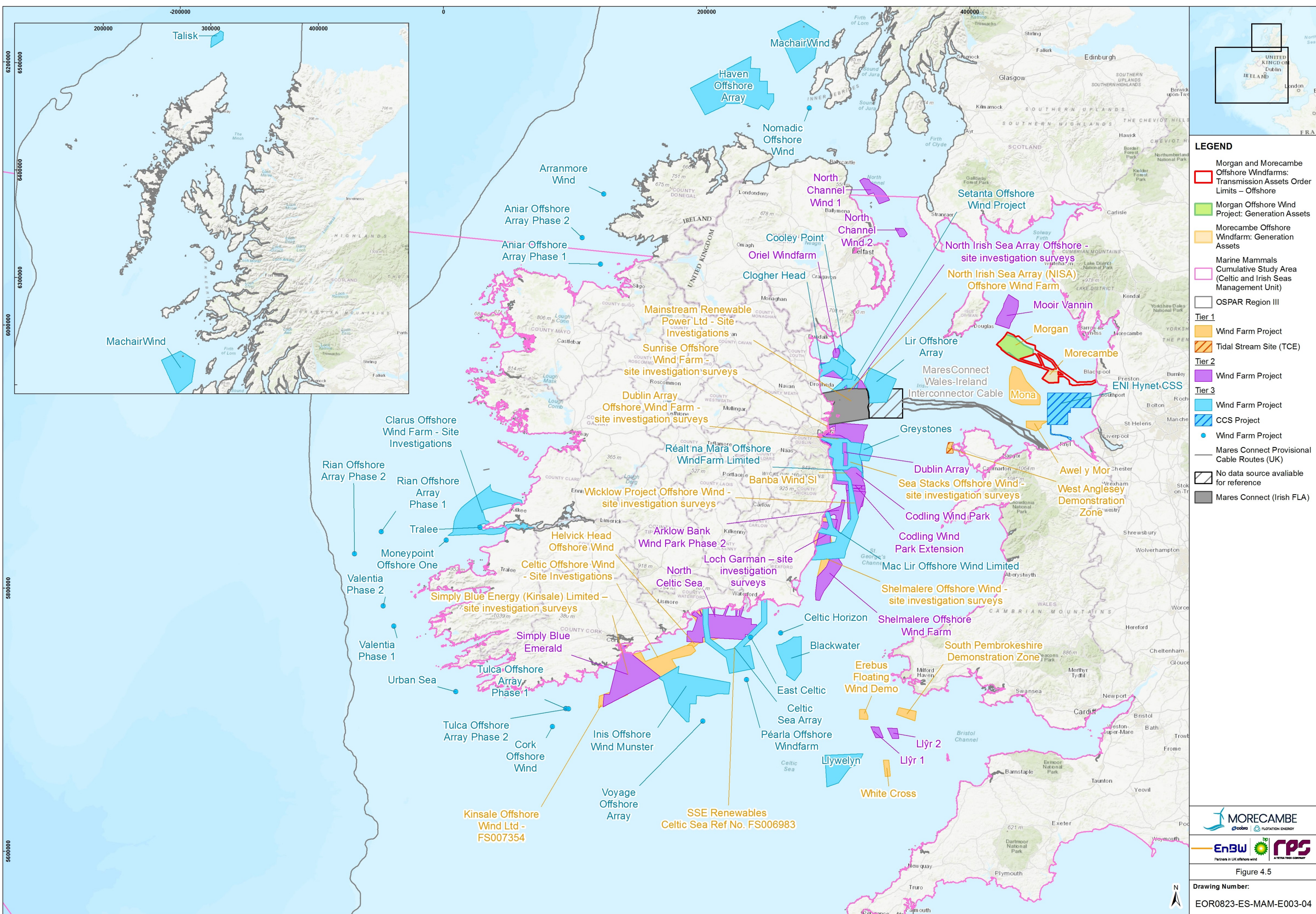
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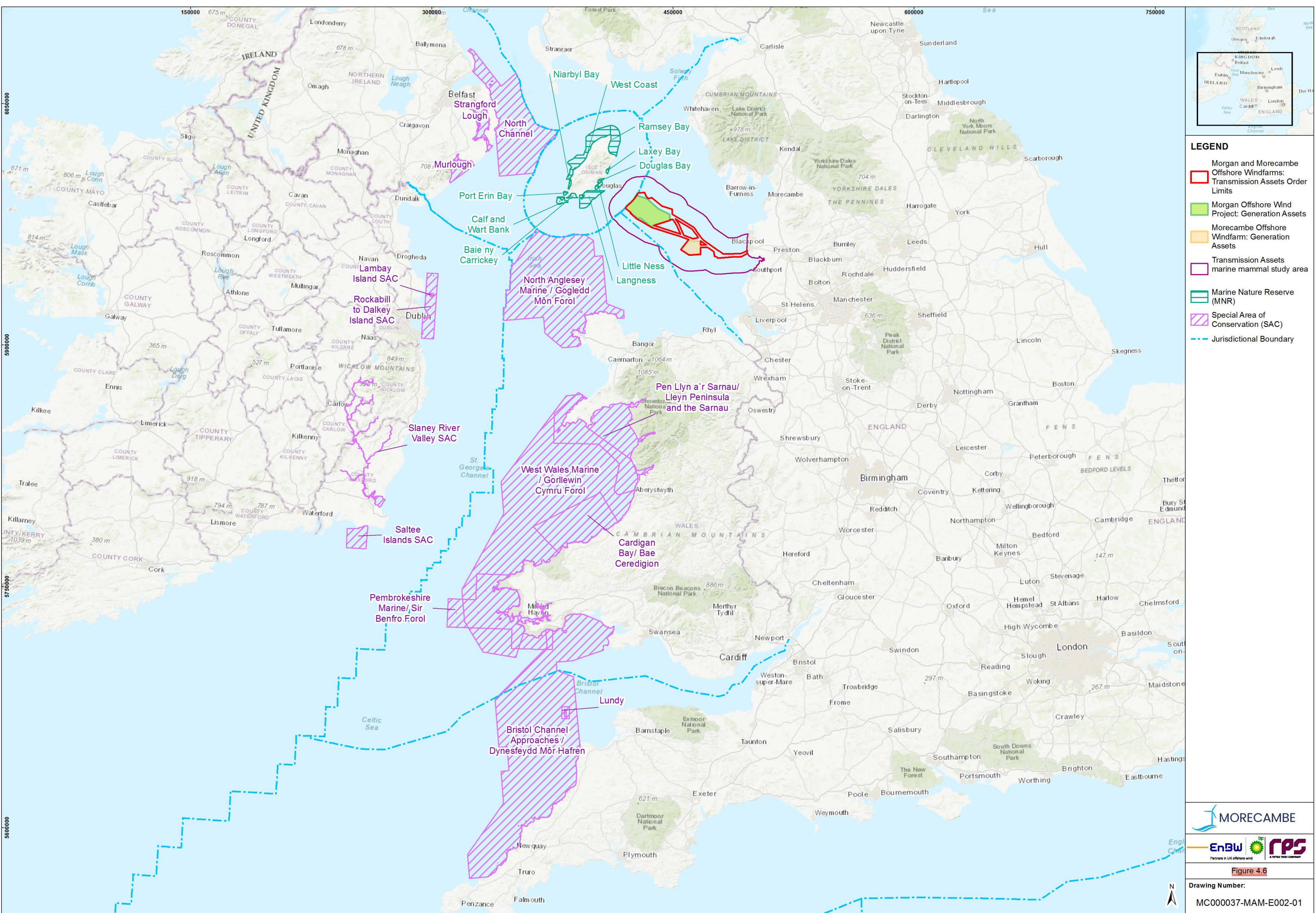
Data Sources: Admiralty Charts 1826 & 1981;
OWFs from The Crown Estate; Marine Traffic 2022 AIS Data

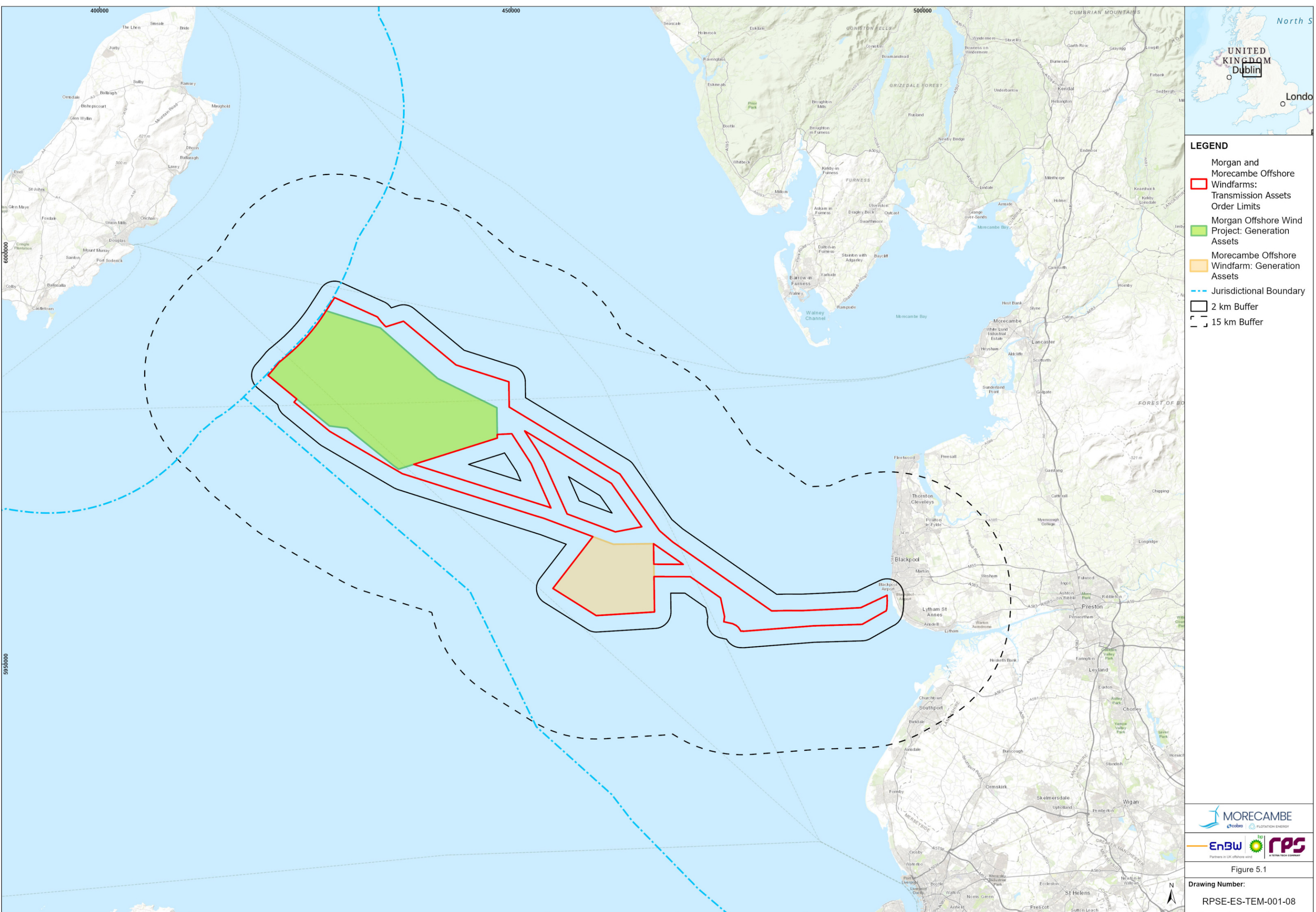
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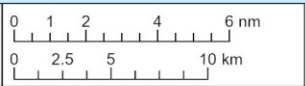






Project Name:
**MORGAN AND MORECAMBE OFFSHORE
WIND FARMS: TRANSMISSION ASSETS**

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



Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:390,625

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

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World Topographic Map: DoBH, OS, Esri, HE, Garmin, USGS, NGA
World Hillshade: Esri, USGS

VER	DATE	DETAILS	BY	CHECK
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
- Morgan Offshore Wind Project: Generation Assets
- Morecambe Offshore Windfarm: Generation Assets
- Jurisdictional Boundary
- 2 km Buffer
- 15 km Buffer

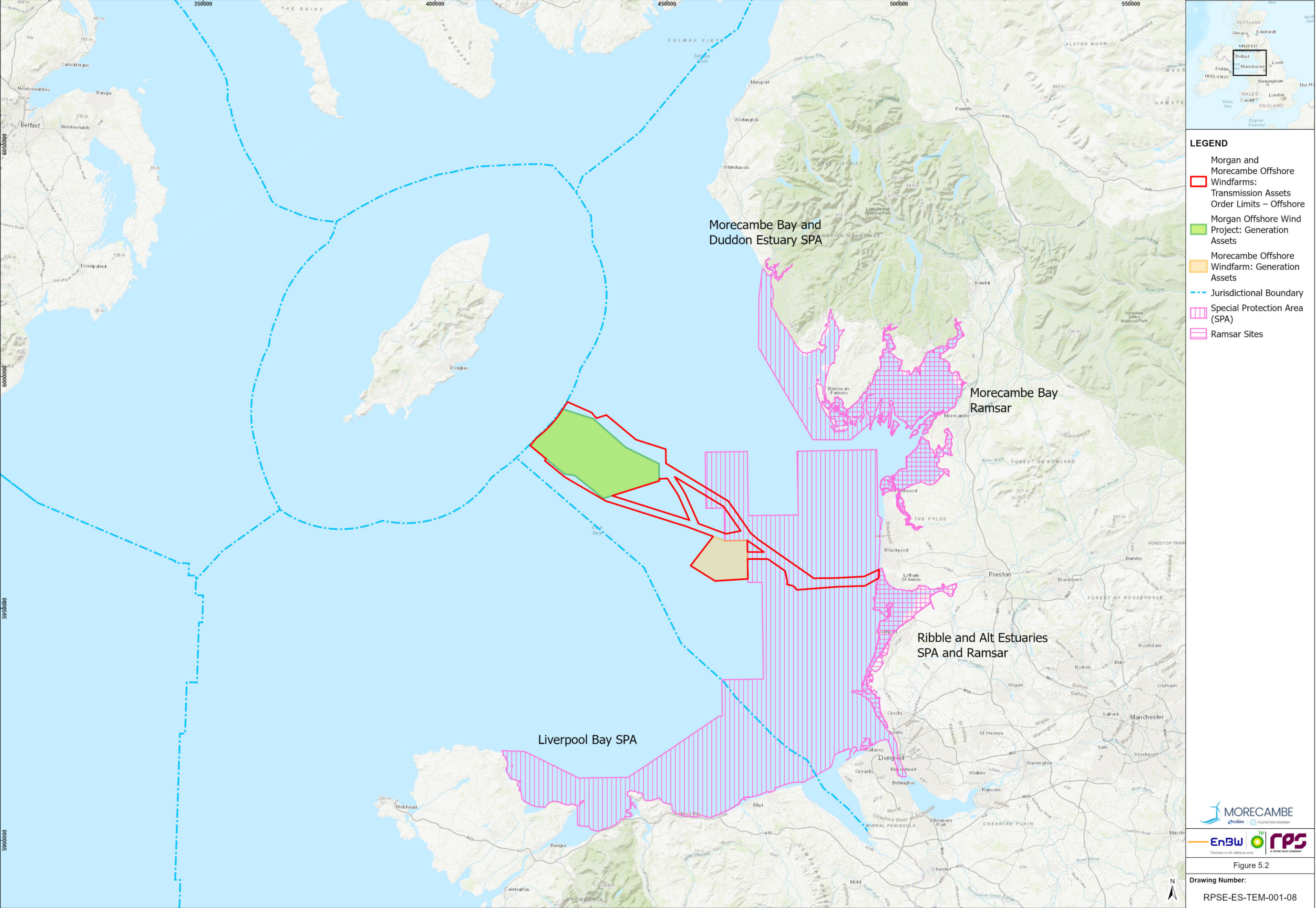


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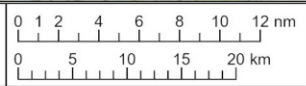
Figure 5.1

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



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

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



Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:694,444

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	16/04/24	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
 - Special Protection Area (SPA)
 - Ramsar Sites

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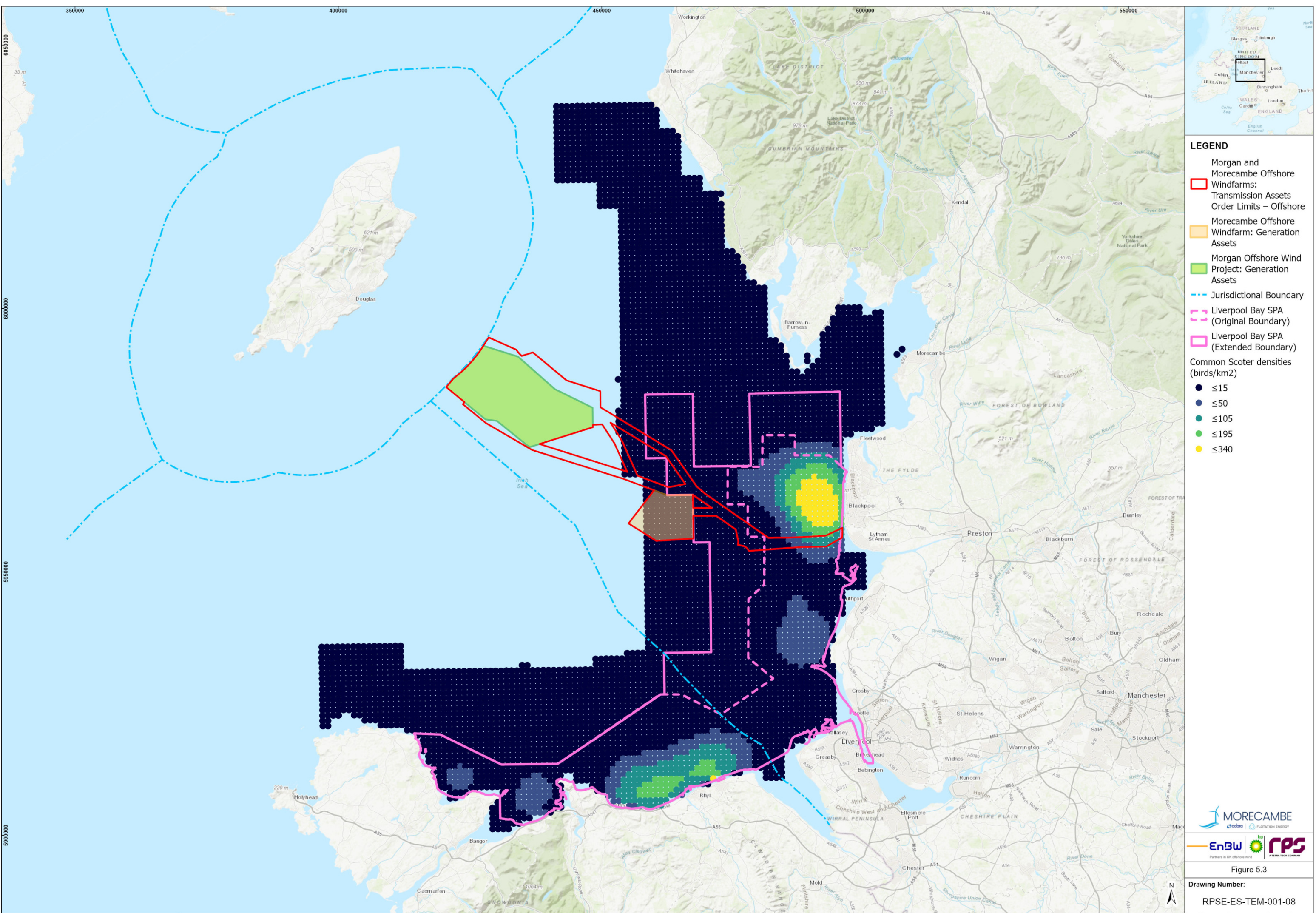
EnBW
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bp
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RPS
A TOTAL TECH COMPANY

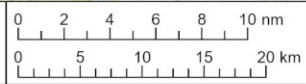
Figure 5.2

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)



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, FAO, USGS, NGA

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

LEGEND

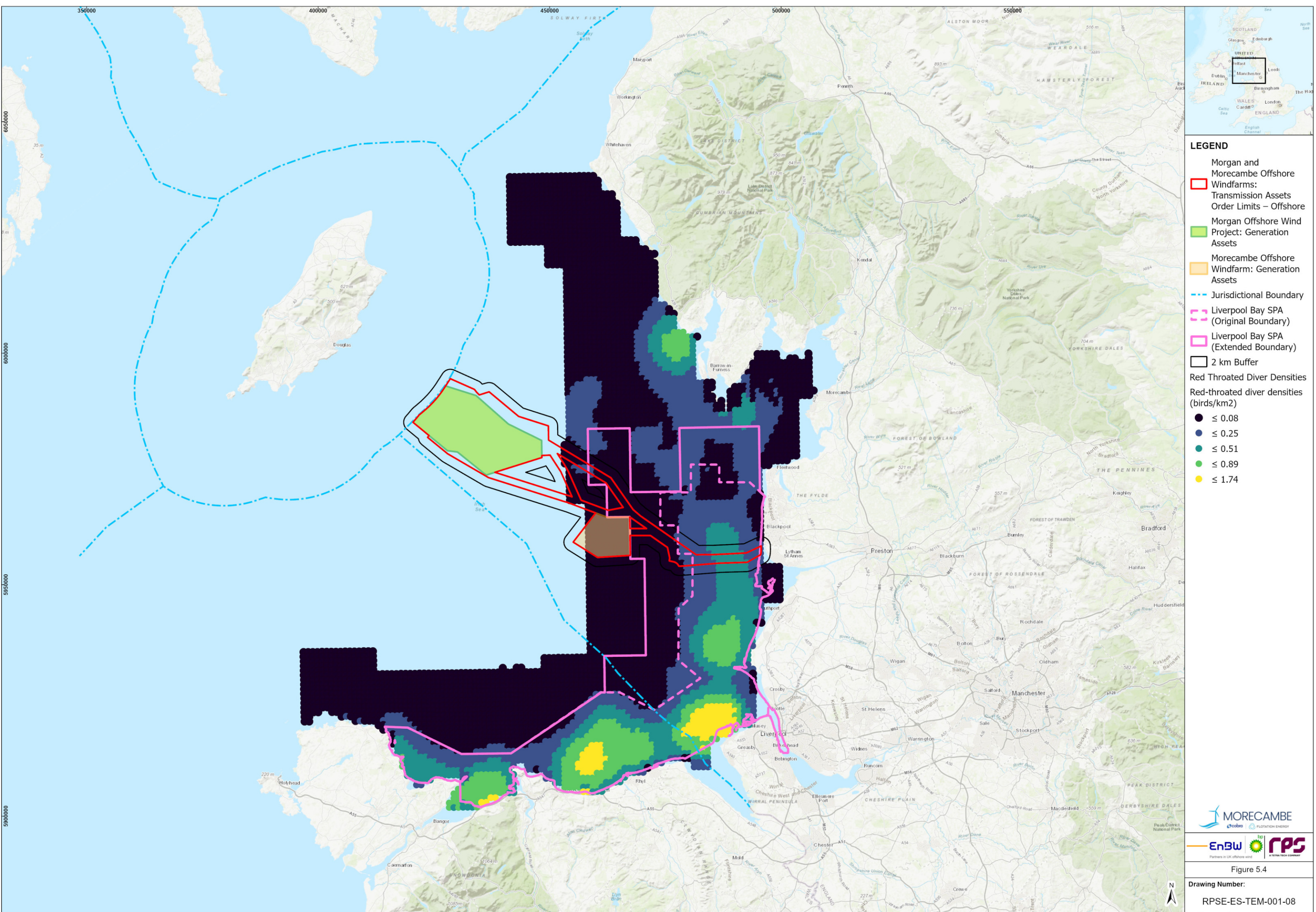
- Morgan and Morecambe Offshore Windfarms:
- Transmission Assets
- Order Limits – Offshore
- Morecambe Offshore Windfarm: Generation Assets
- Morgan Offshore Wind Project: Generation Assets
- Jurisdictional Boundary
- Liverpool Bay SPA (Original Boundary)
- Liverpool Bay SPA (Extended Boundary)
- Common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



Figure 5.3

Drawing Number:

RPSE-ES-TEM-001-08



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

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EnBW **bp** **RPS**

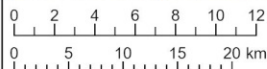
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Figure 5.4

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)

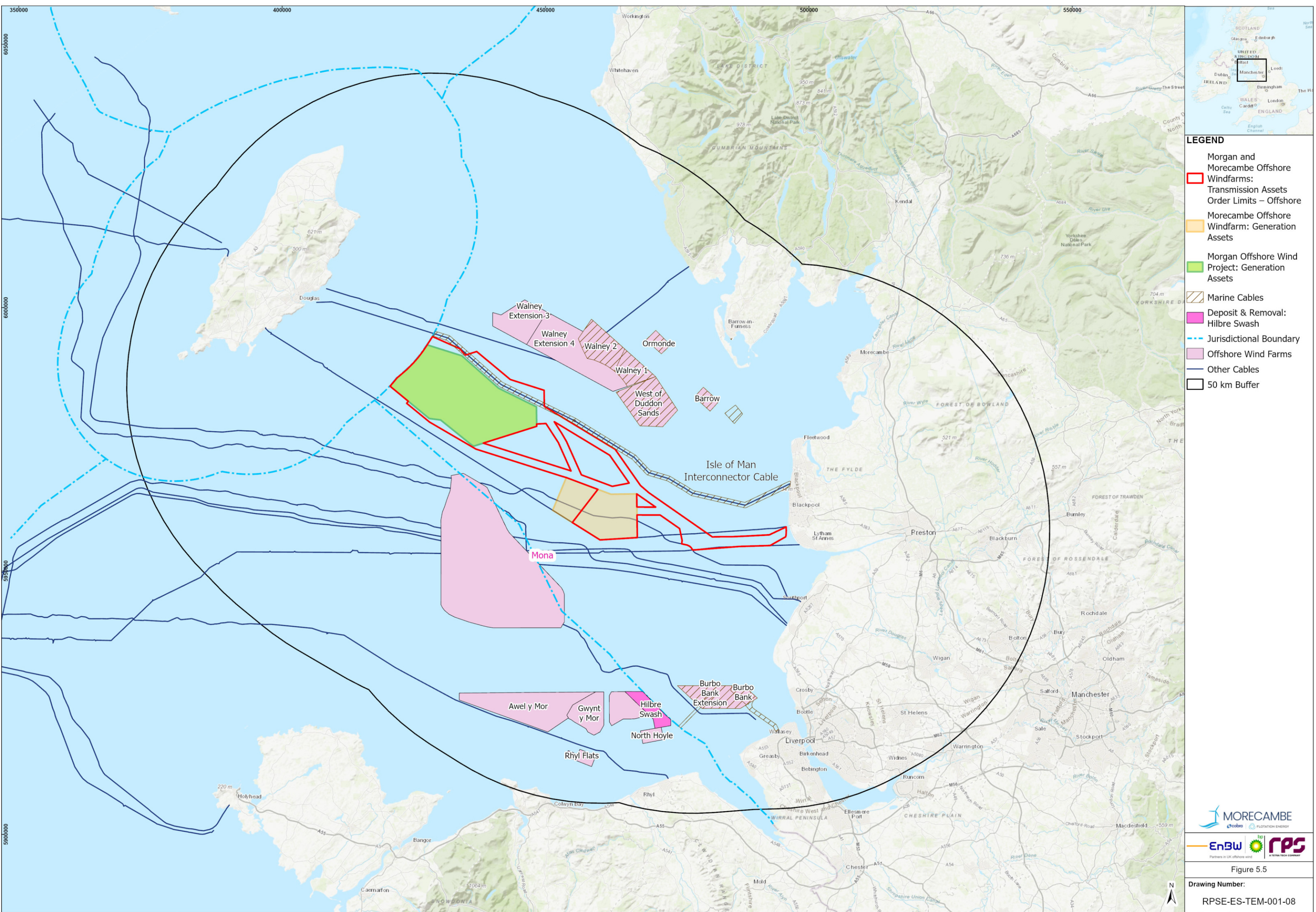


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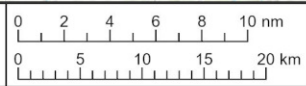
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01	15/04/24	Final Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE



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

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World Topographic Map: Esri UK, Esri, HERE, Garmin, USGS, NGA

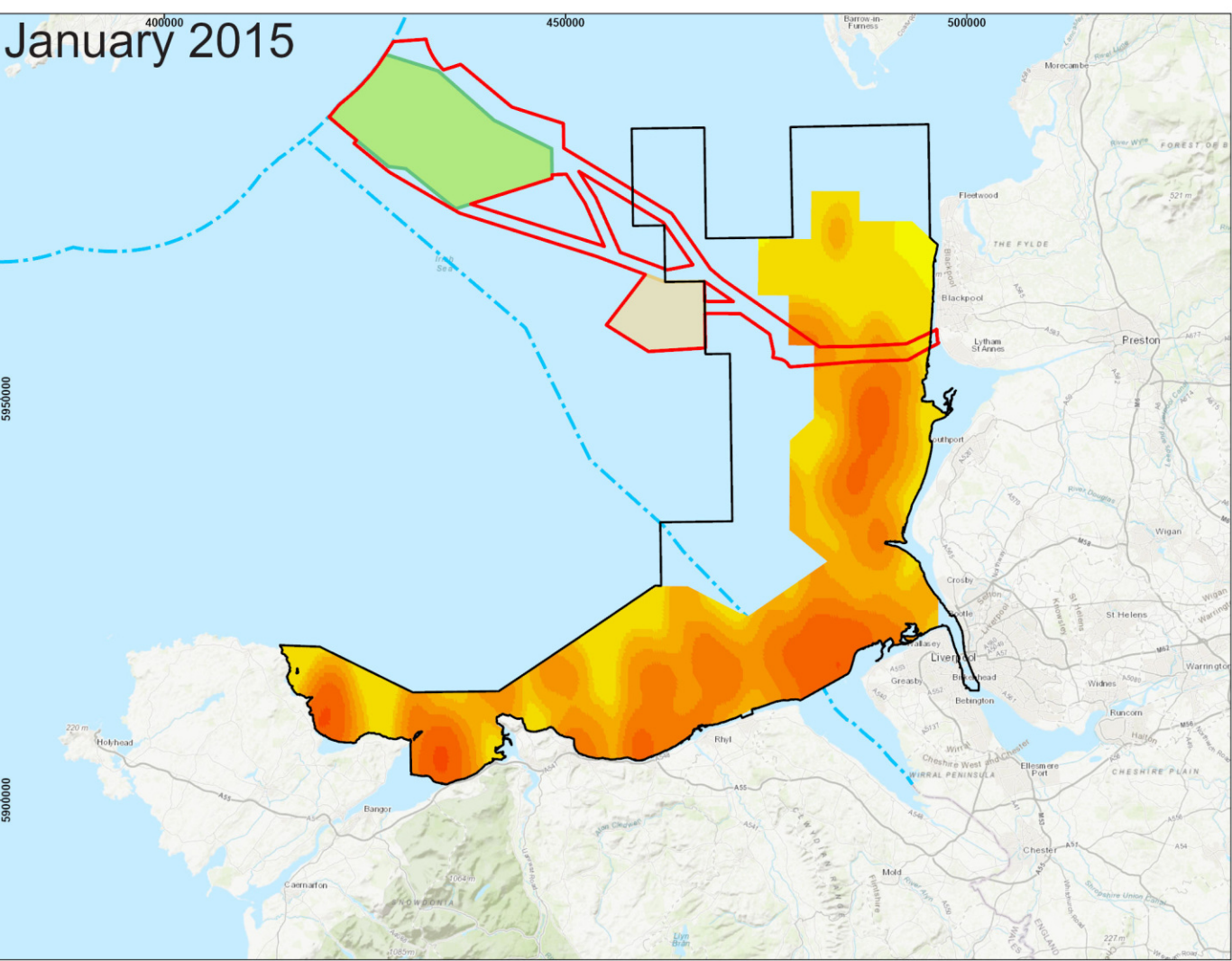
VER	DATE	DETAILS	BY	CHECK
01	16/04/24	Final Issue	TEDE	HAZ
01	13/09/24	Final Issue	JOSW	WIGE

- 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

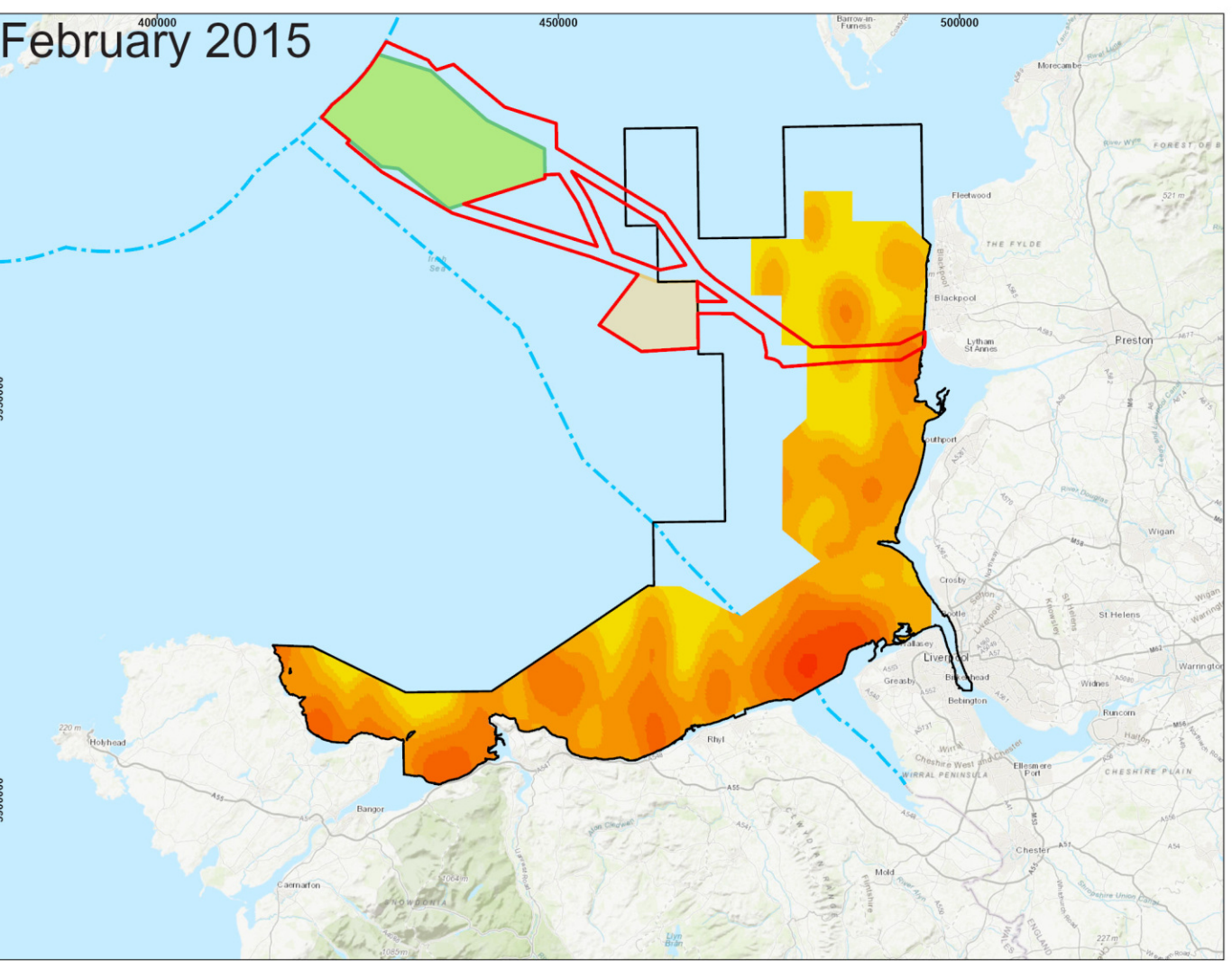
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EnBW bp rps
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Figure 5.5
Drawing Number:
RPSE-ES-TEM-001-08

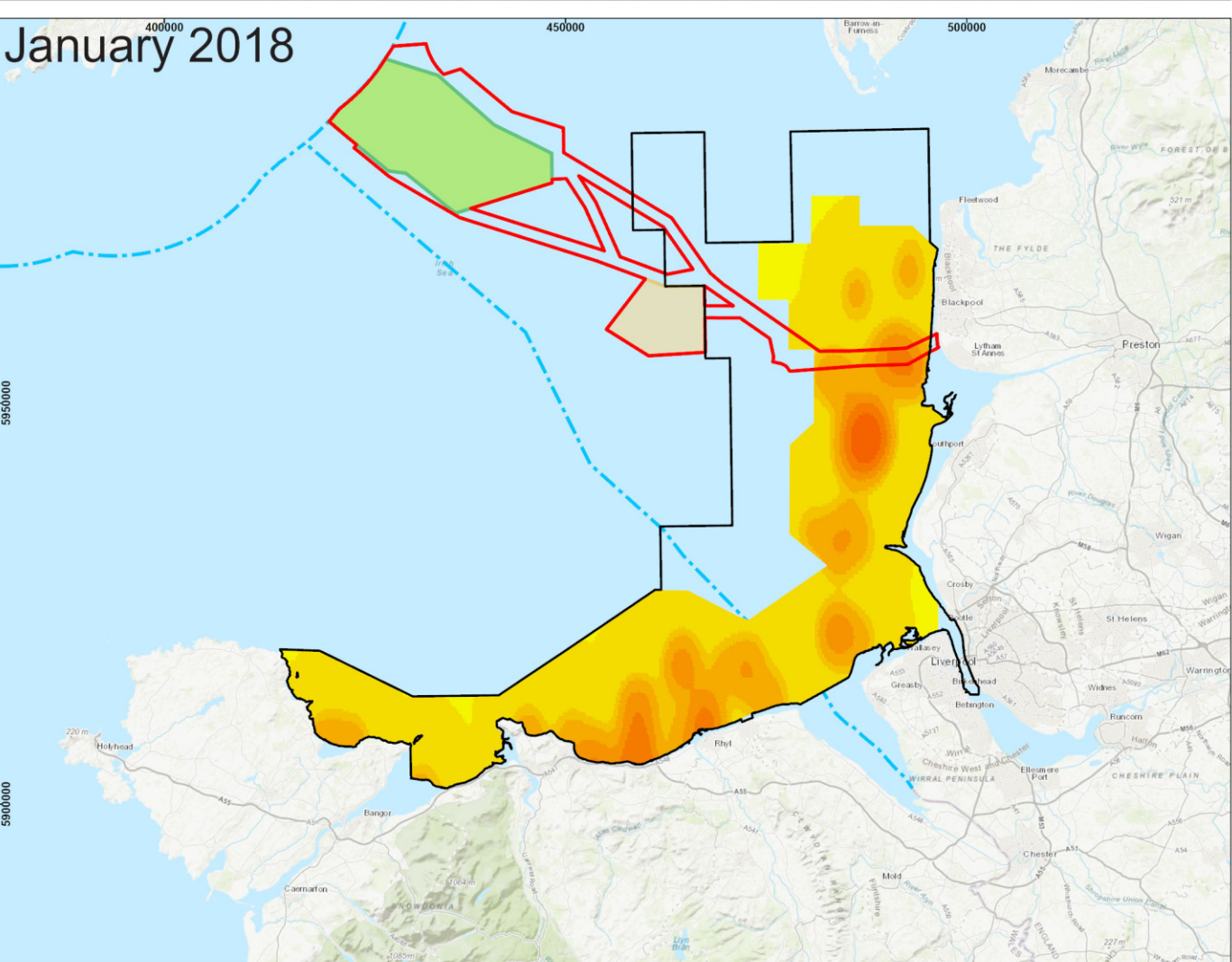
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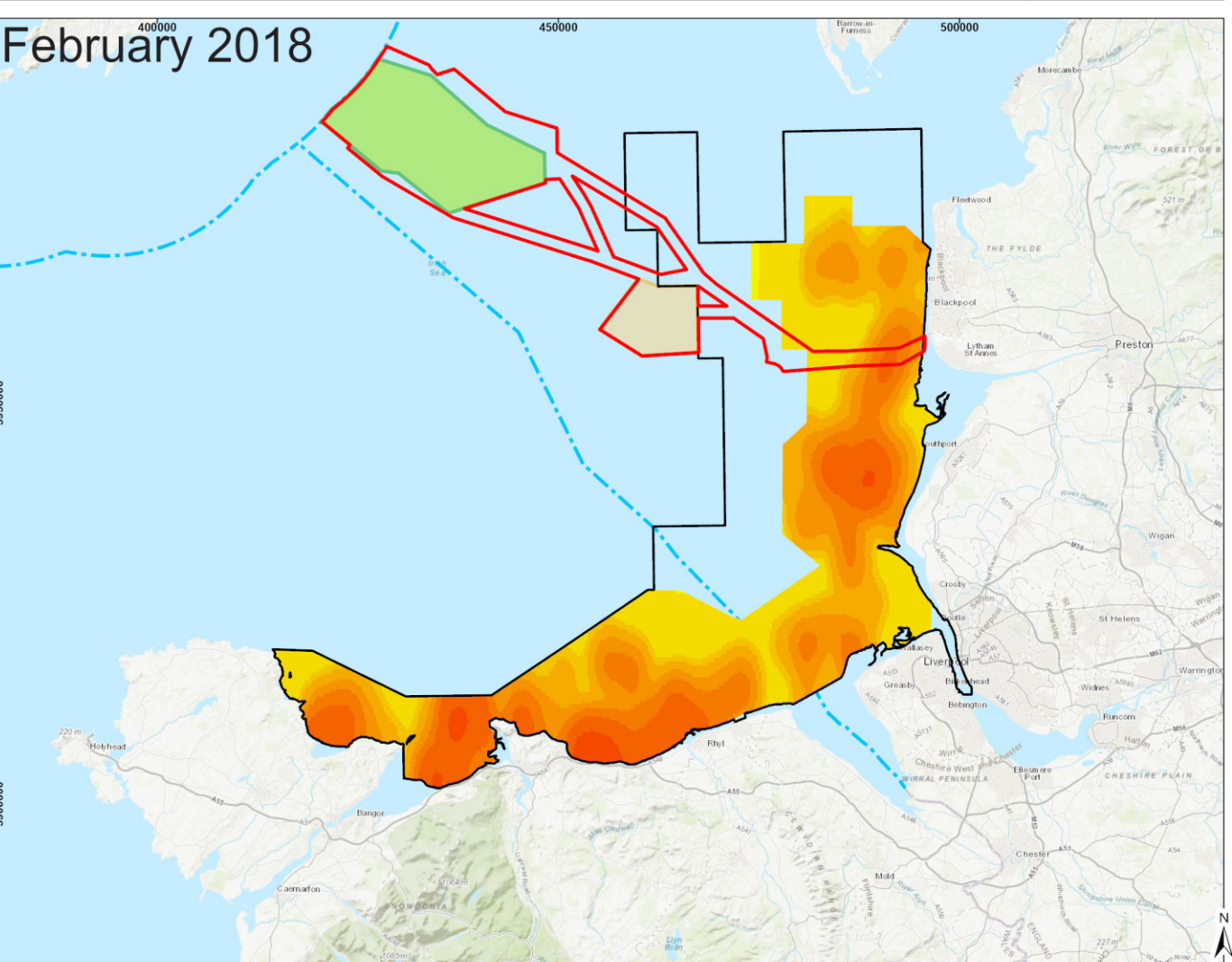
February 2015



January 2018



February 2018



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



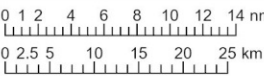
Figure 5.6

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)



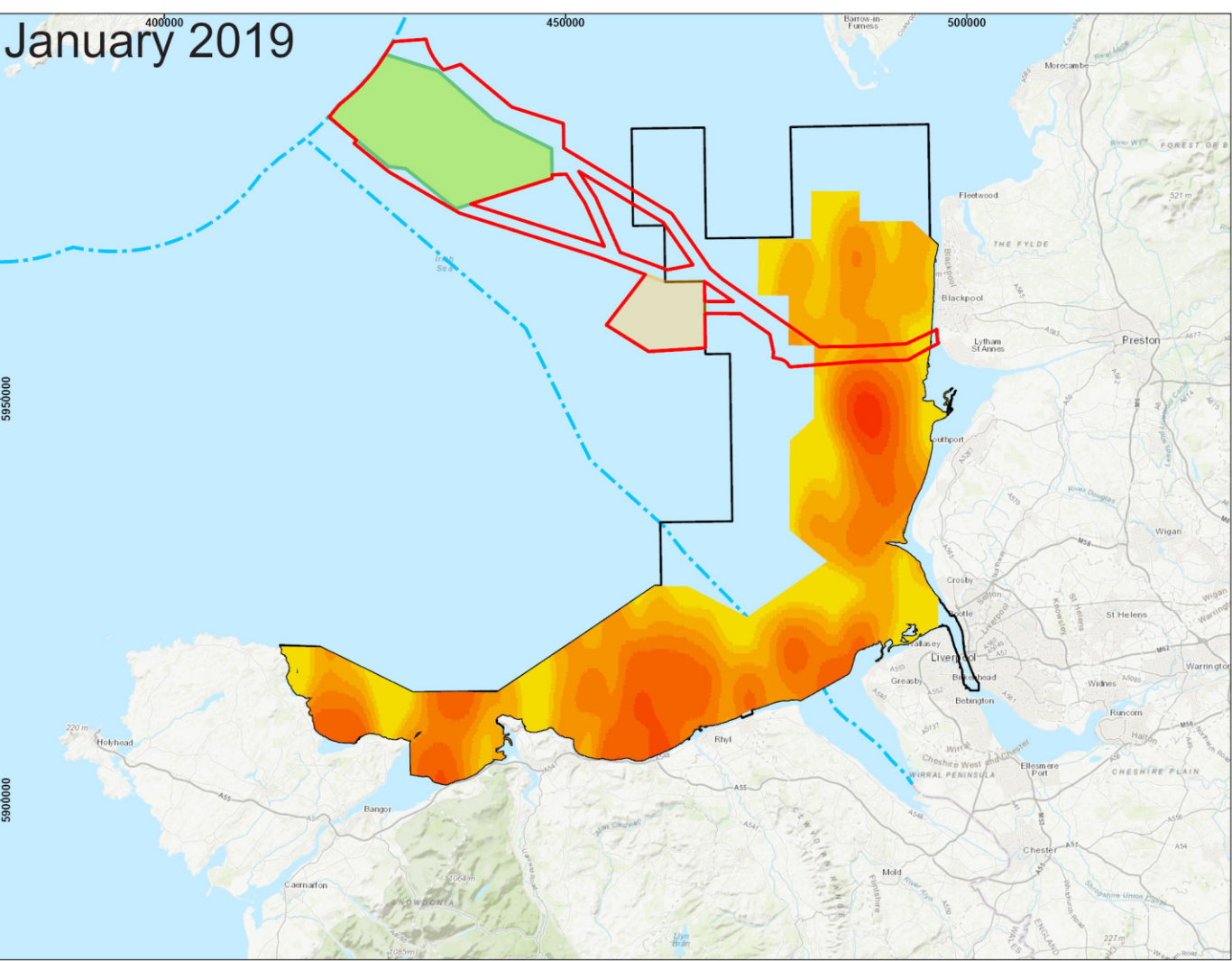
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Scale@379mmx231mm: 1:850,000

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

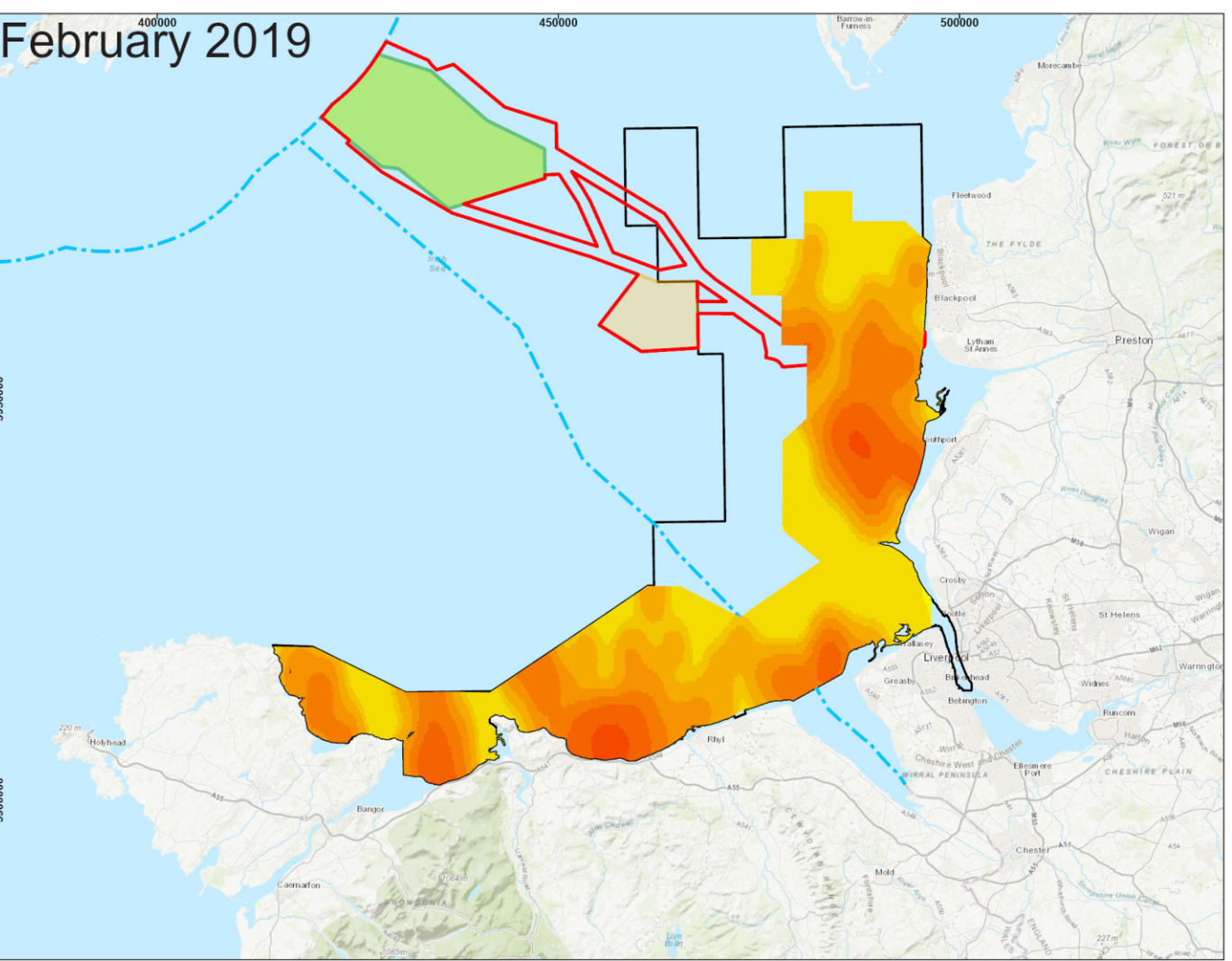
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World Topographic Map: DoBH, OS, Esri, HERE, Garmin, USGS, IGA

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01	13/09/24	Final Issue	JOSW	WIGE

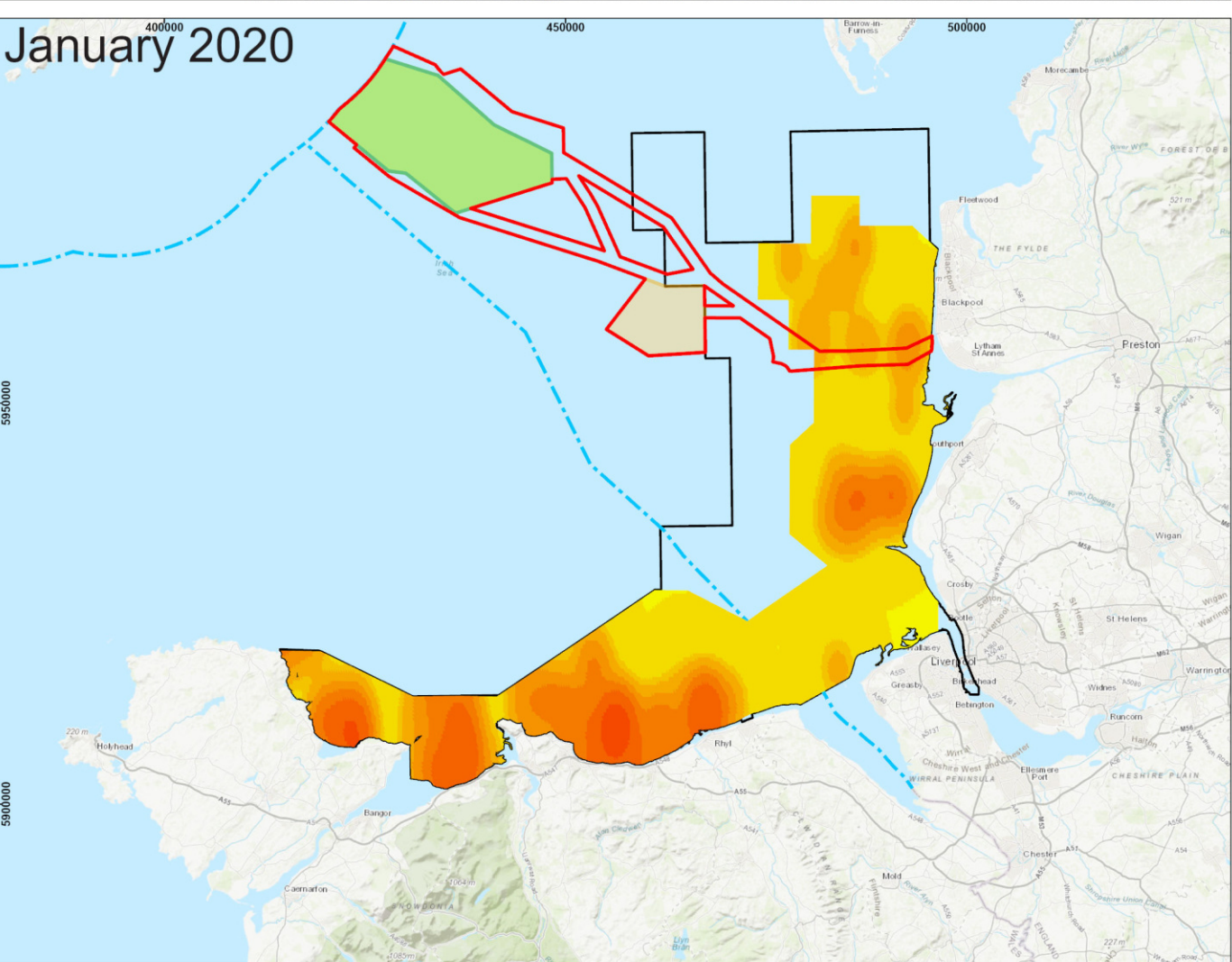
January 2019



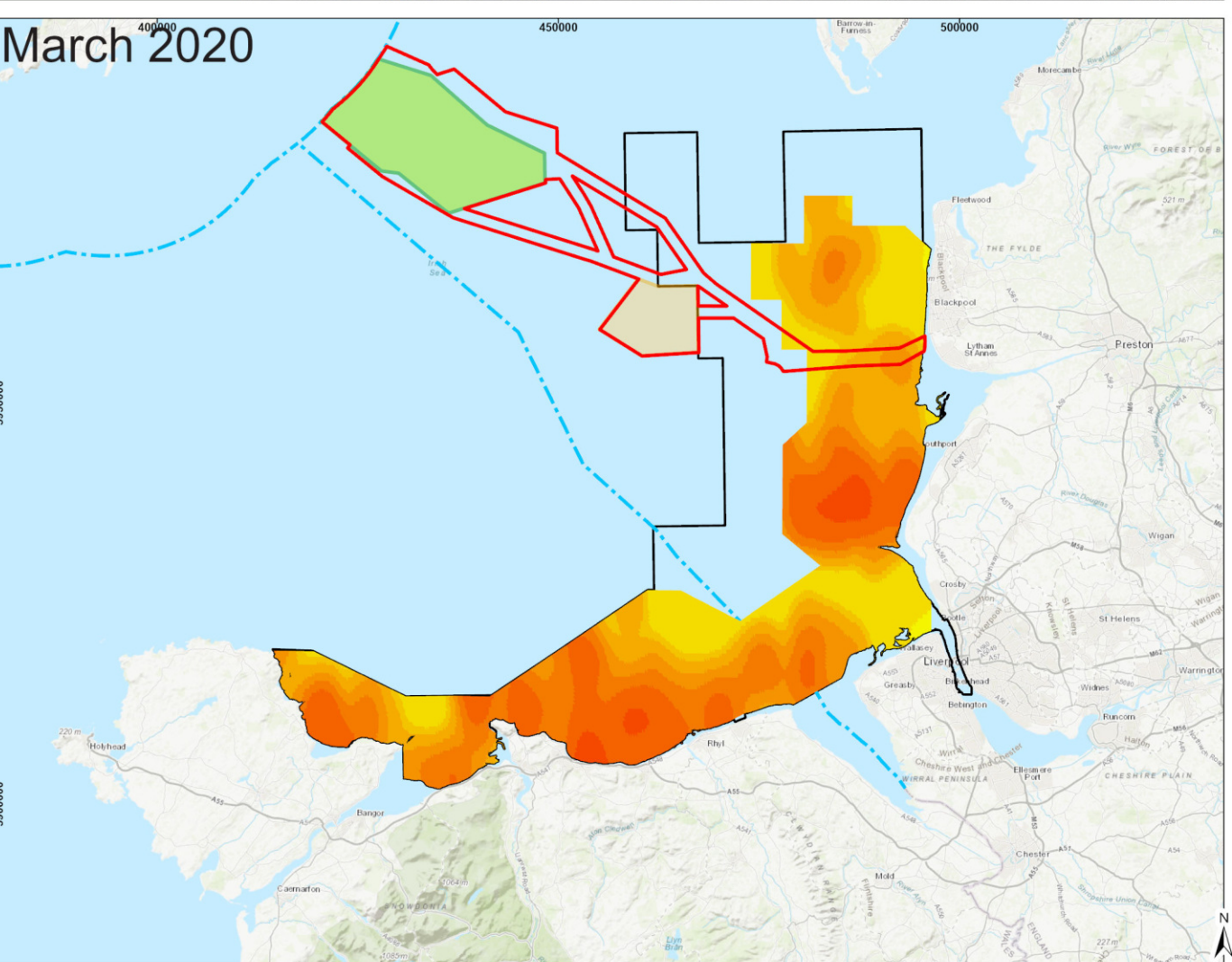
February 2019



January 2020



March 2020



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
- 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



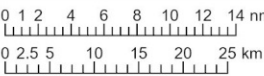
Figure 5.7

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)



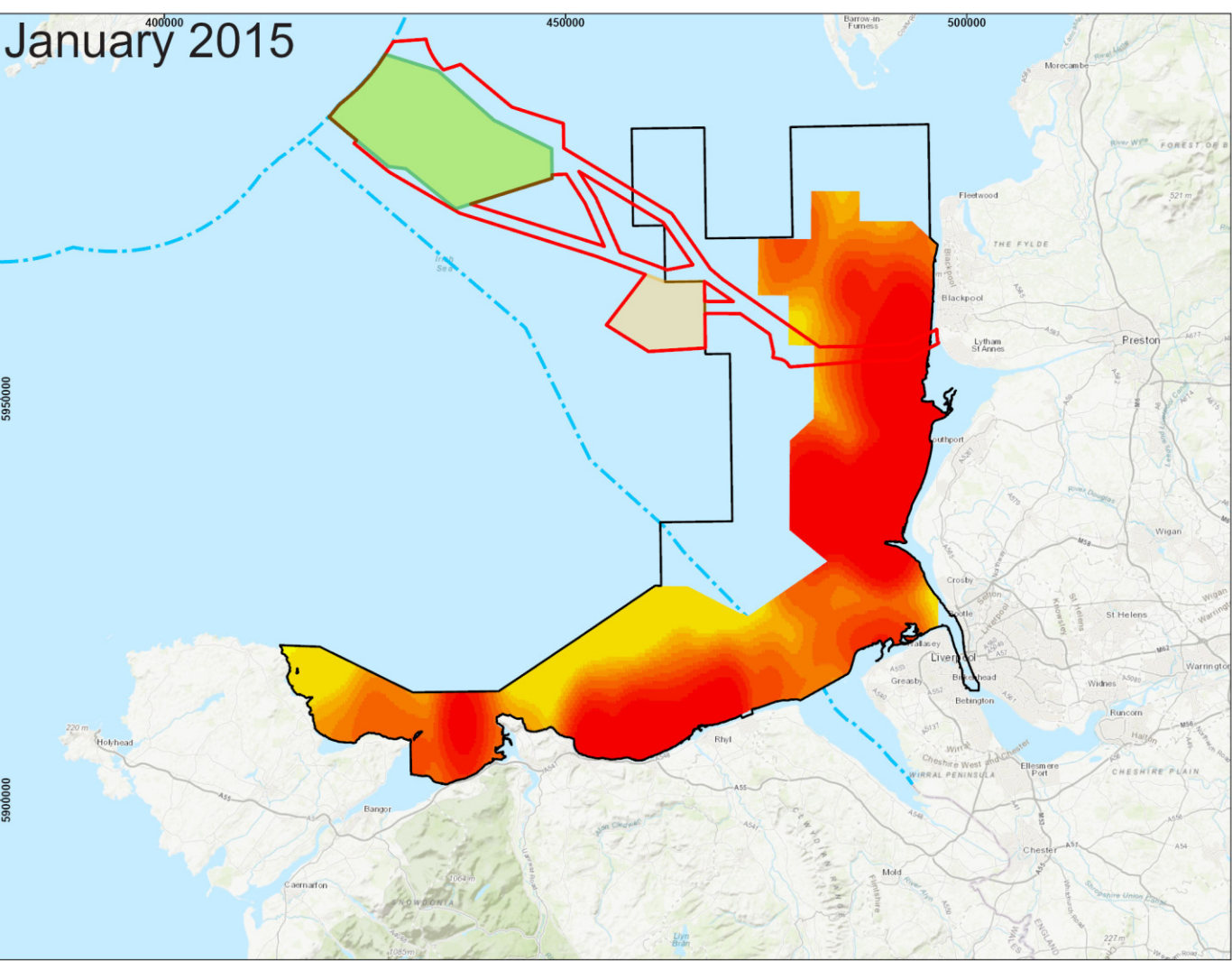
Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:850,000

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

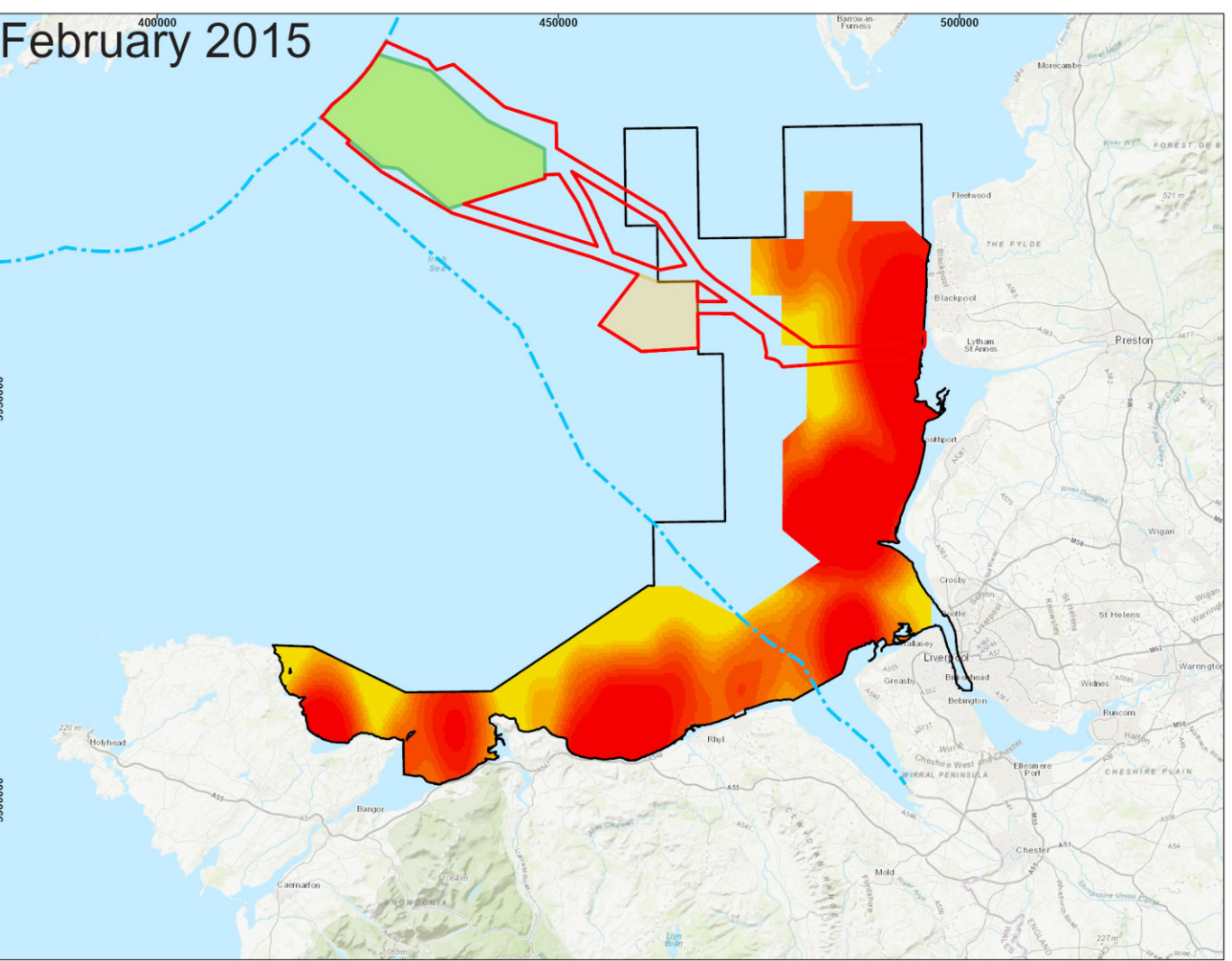
Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
World Topographic Map: Esri, HERE, Garmin, FAO, USGS
World Topographic Map: DoH, Es, Osi, HERE, Garmin, USGS, NGA

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

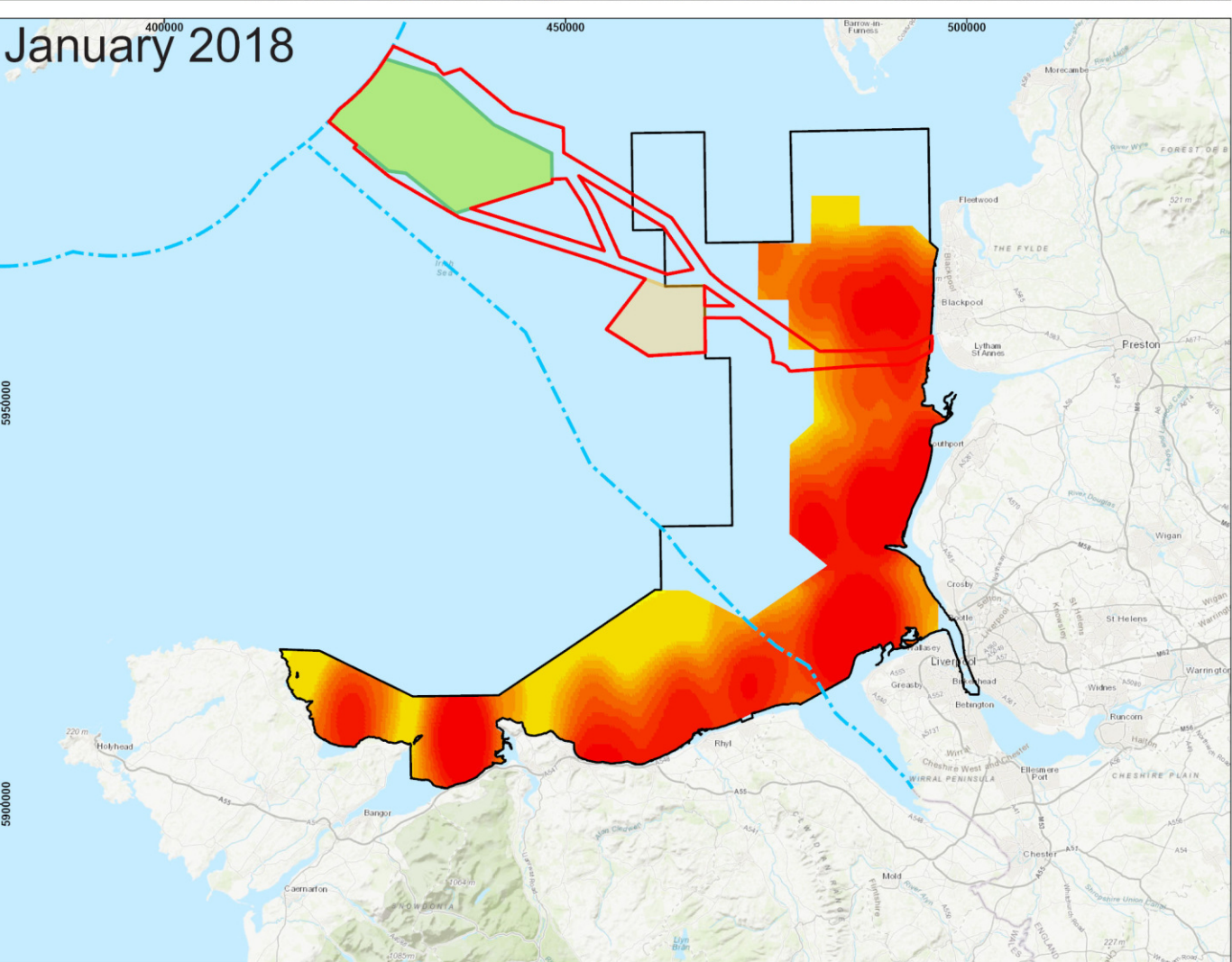
January 2015



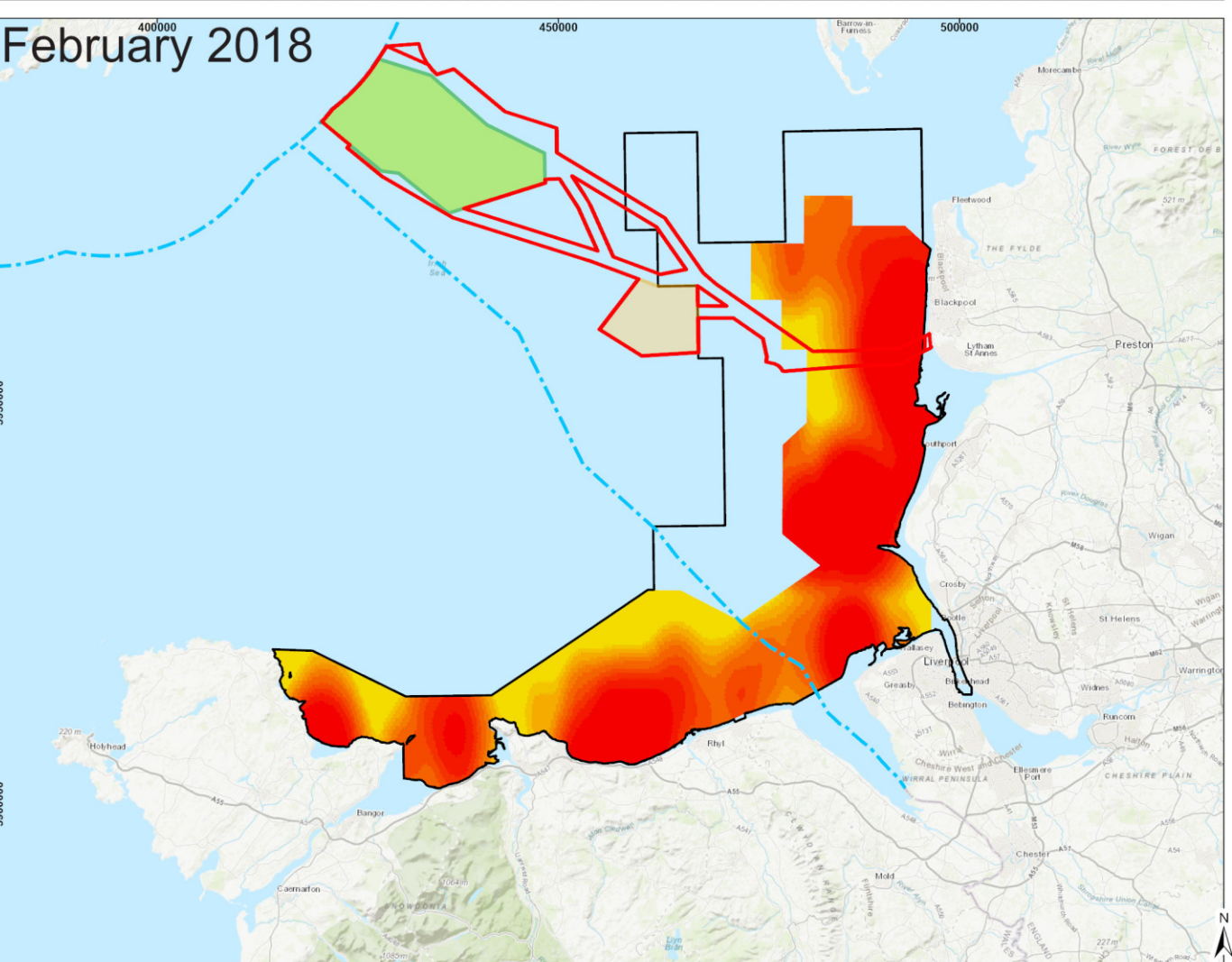
February 2015



January 2018



February 2018



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



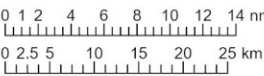
Figure 5.8

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)



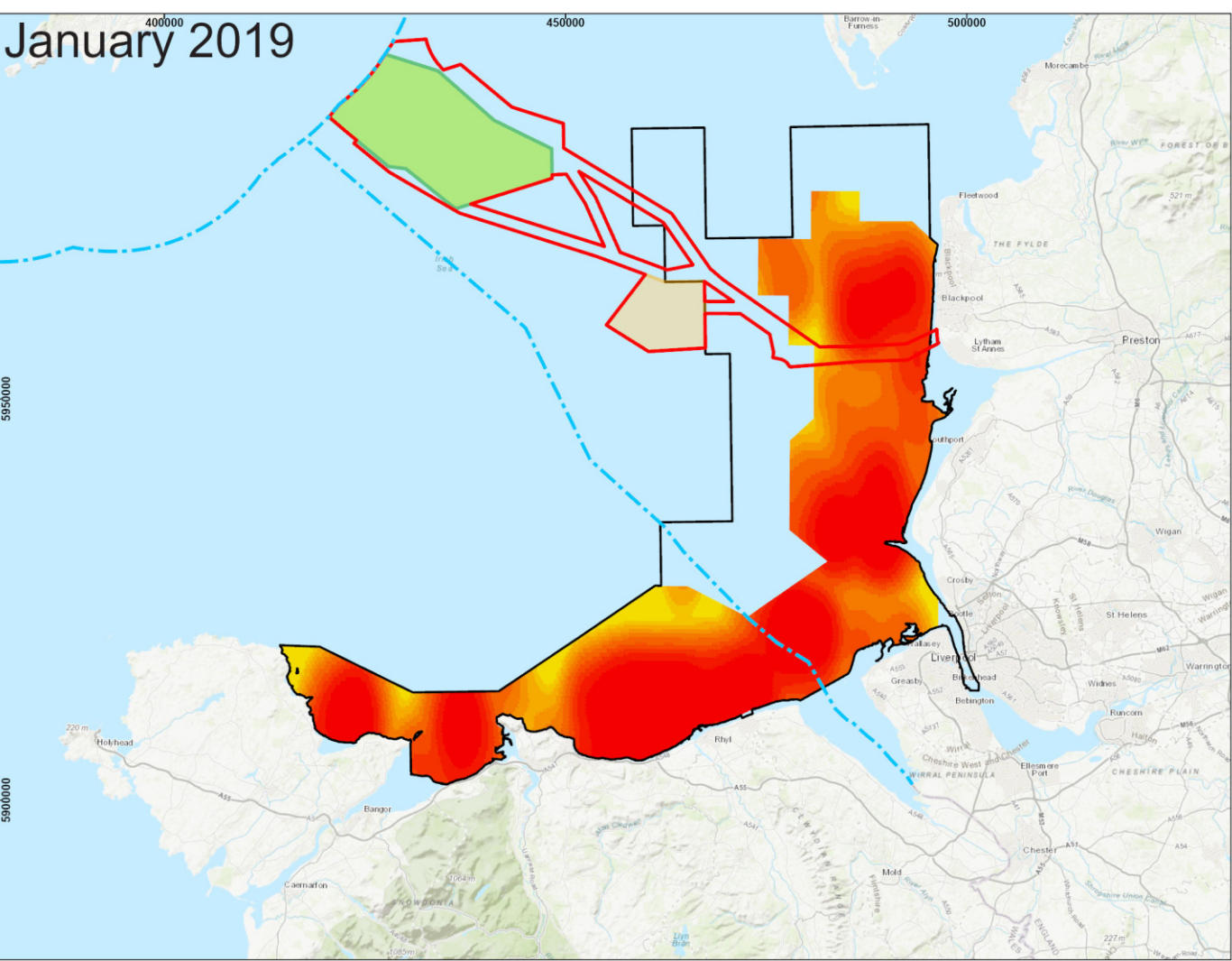
Geodetic Information:
Datum: ETRS 1989
Projection: ETRS 1989 UTM Zone 30N
Scale@379mmx231mm: 1:850,000

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

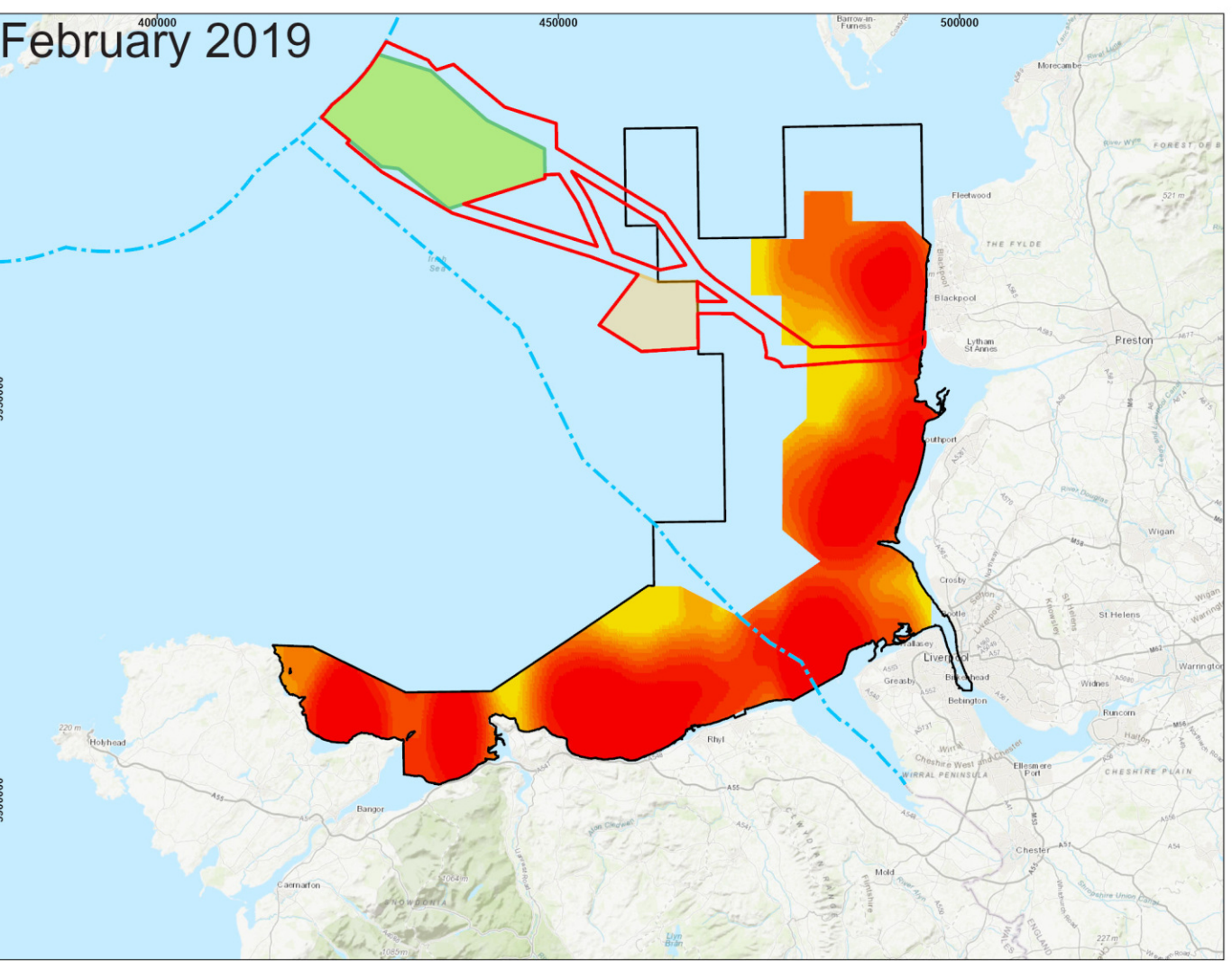
Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS
World Topographic Map: Esri, HERE, Garmin, FAO, USGS
World Topographic Map: DoBH, Esri, HERE, Garmin, USGS, NGA

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

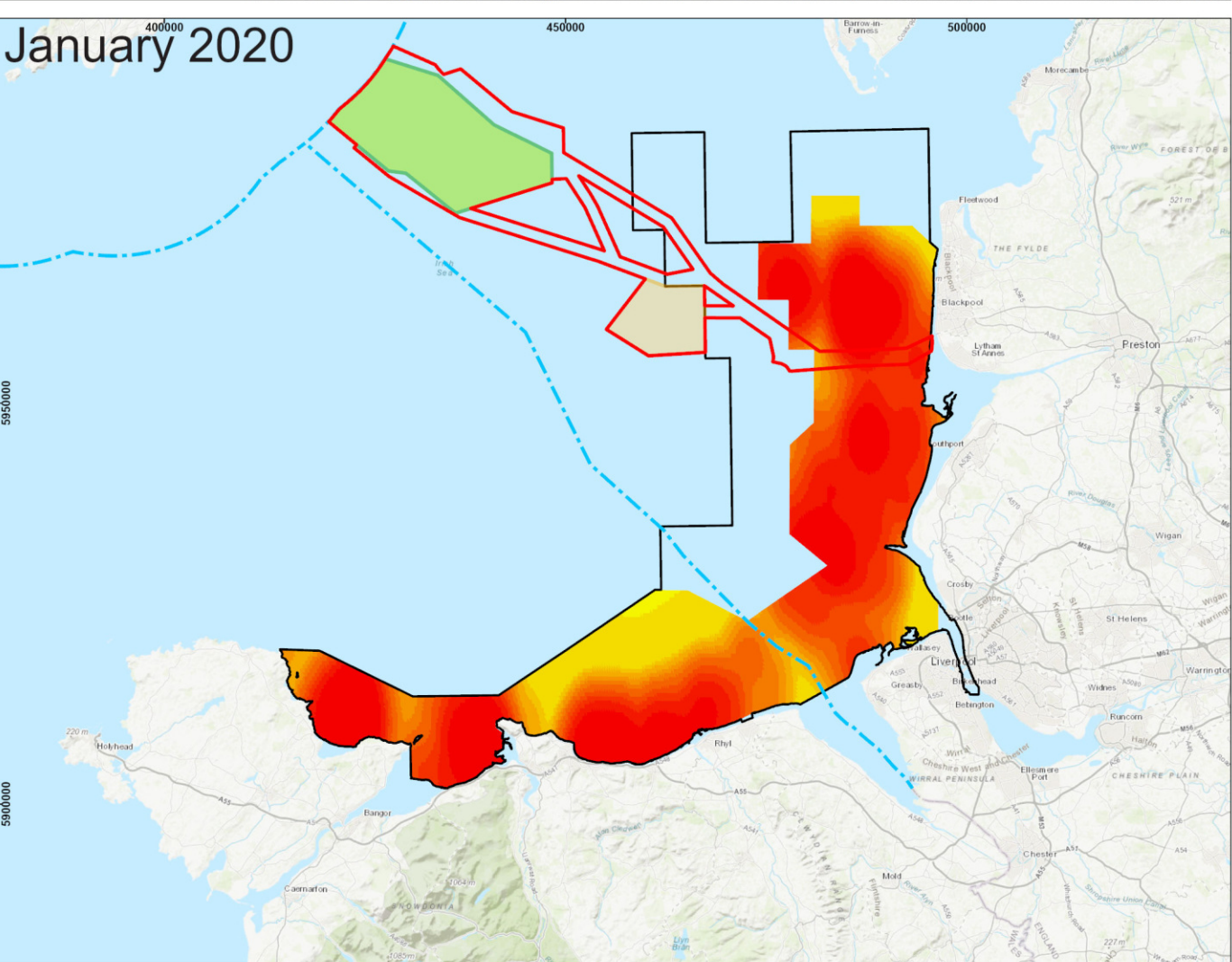
January 2019



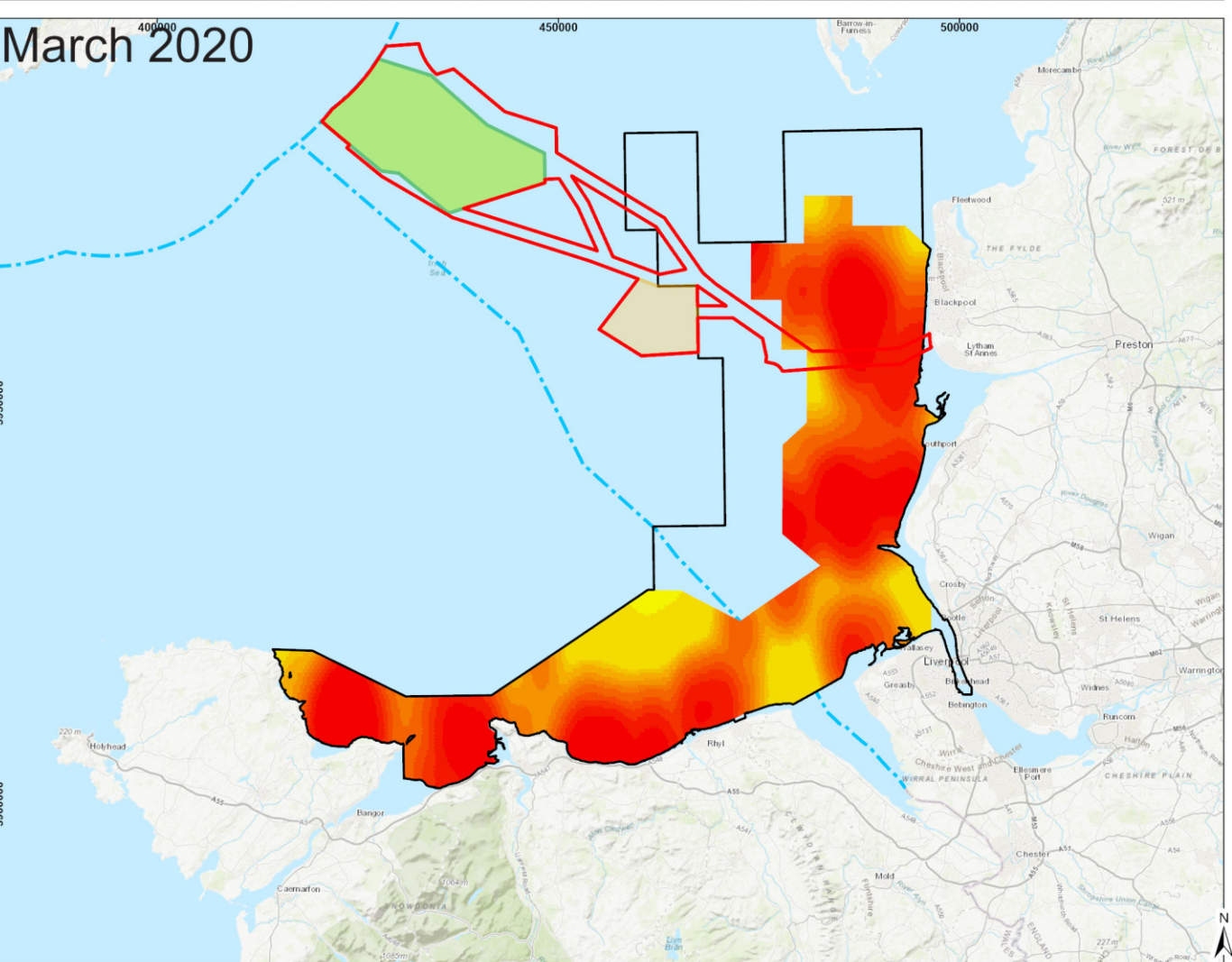
February 2019



January 2020



March 2020



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



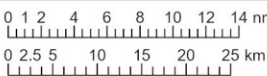
Figure 5.9

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: DoBH, OS, Esri, HE, FAO, USGS
RE, Garmin, USGS, NGA

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