The Great Grid Upgrade

Sea Link

Sea Link

Volume 6: Environmental Statement

Document 6.4.4.5
Part 4 Marine
Chapter 5
Marine Ornithology - Figures

Planning Inspectorate Reference: EN020026

Version: ~~A~~B
~~March~~ December 2025

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

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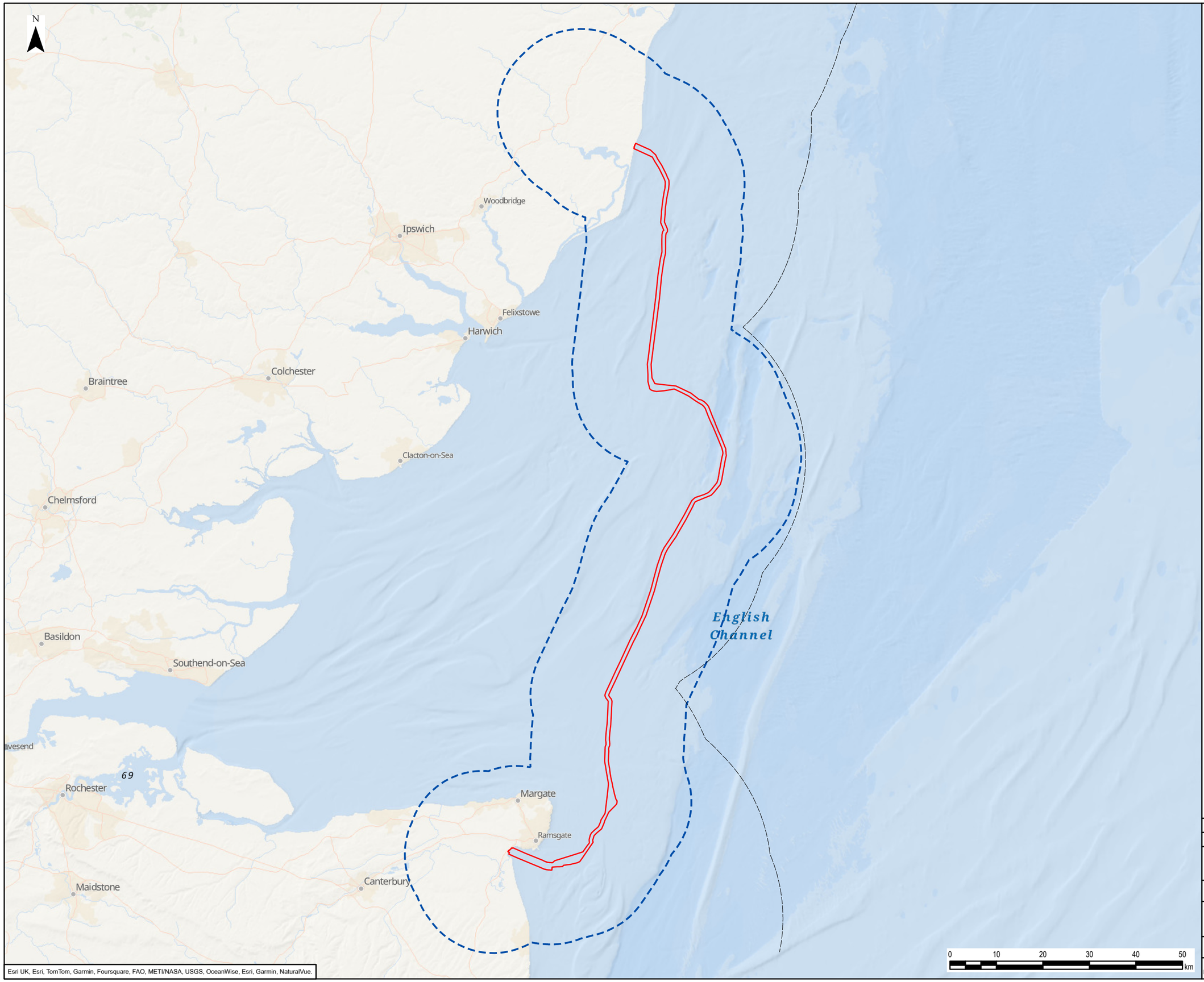
Version History

Date	Issue	Status	Description / Changes
March 2025	A	Final	For DCO submission
December 2025	B	Final	For Deadline 2



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Legend

- Offshore Scheme Boundary
- Study Area
- UK Territorial Sea Limit - 12 nm

Rev	Date	Description	GIS	Chk	App
0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	JR

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Document Title: ORNITHOLOGY STUDY AREA

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	25/11/2024	DF	25/11/2024	JR	25/11/2024

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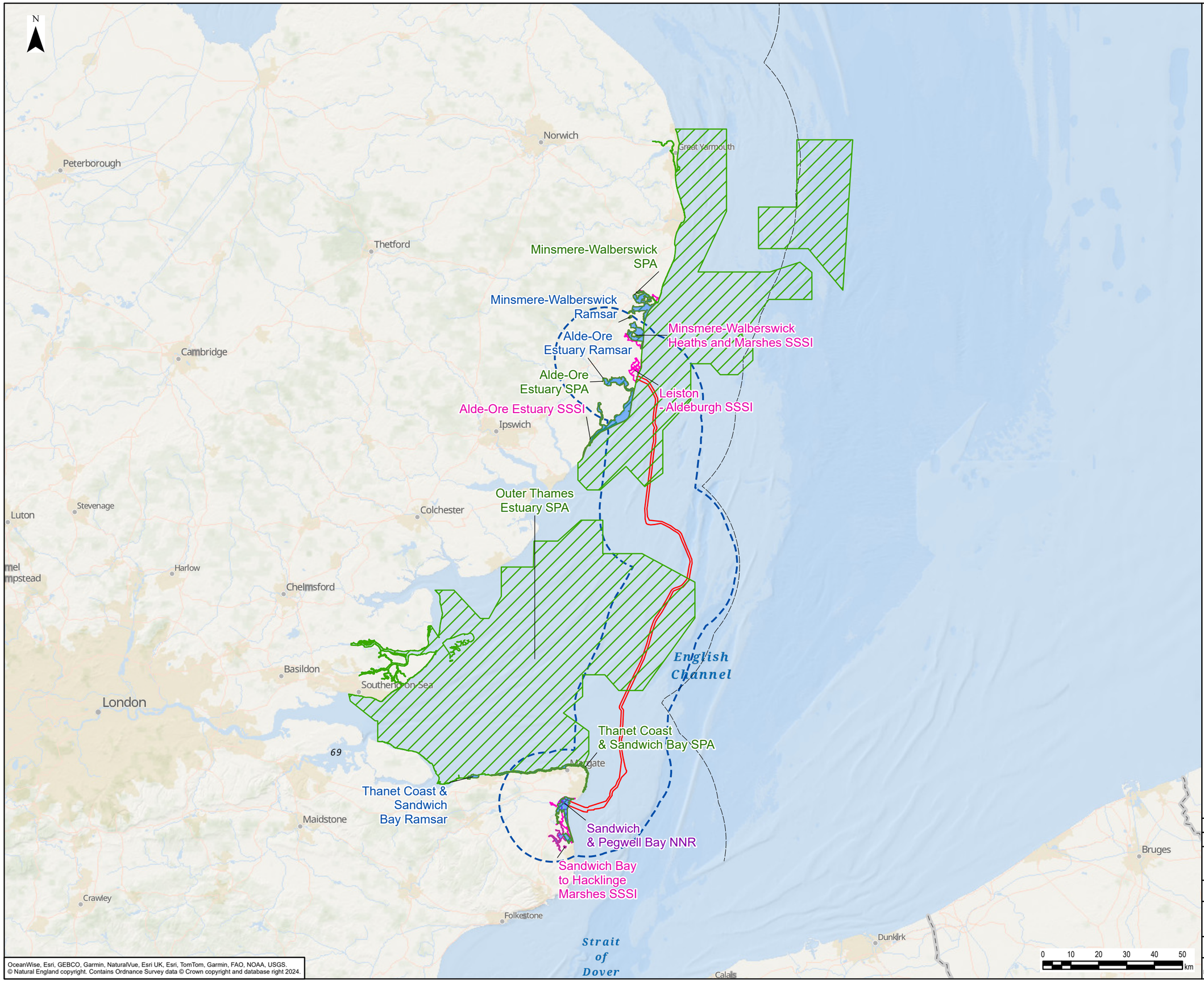

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Legend

- Offshore Scheme Boundary
- Study Area
- UK Territorial Sea Limit - 12 nm
- National Nature Reserve (NNR)
- Special Protection Area (SPA)
- Ramsar Site
- Site of Special Scientific Interest (SSSI)

Rev	Date	Description	GIS	Chk	App
0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	JR

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Document Title: RELEVANT DESIGNATED SITES FOR THE PROTECTION OF ORNITHOLOGY

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EB	25/11/2024	DF	25/11/2024	JR	25/11/2024

Document Ref:	Scale:	Format:	Sheets:	Rev:
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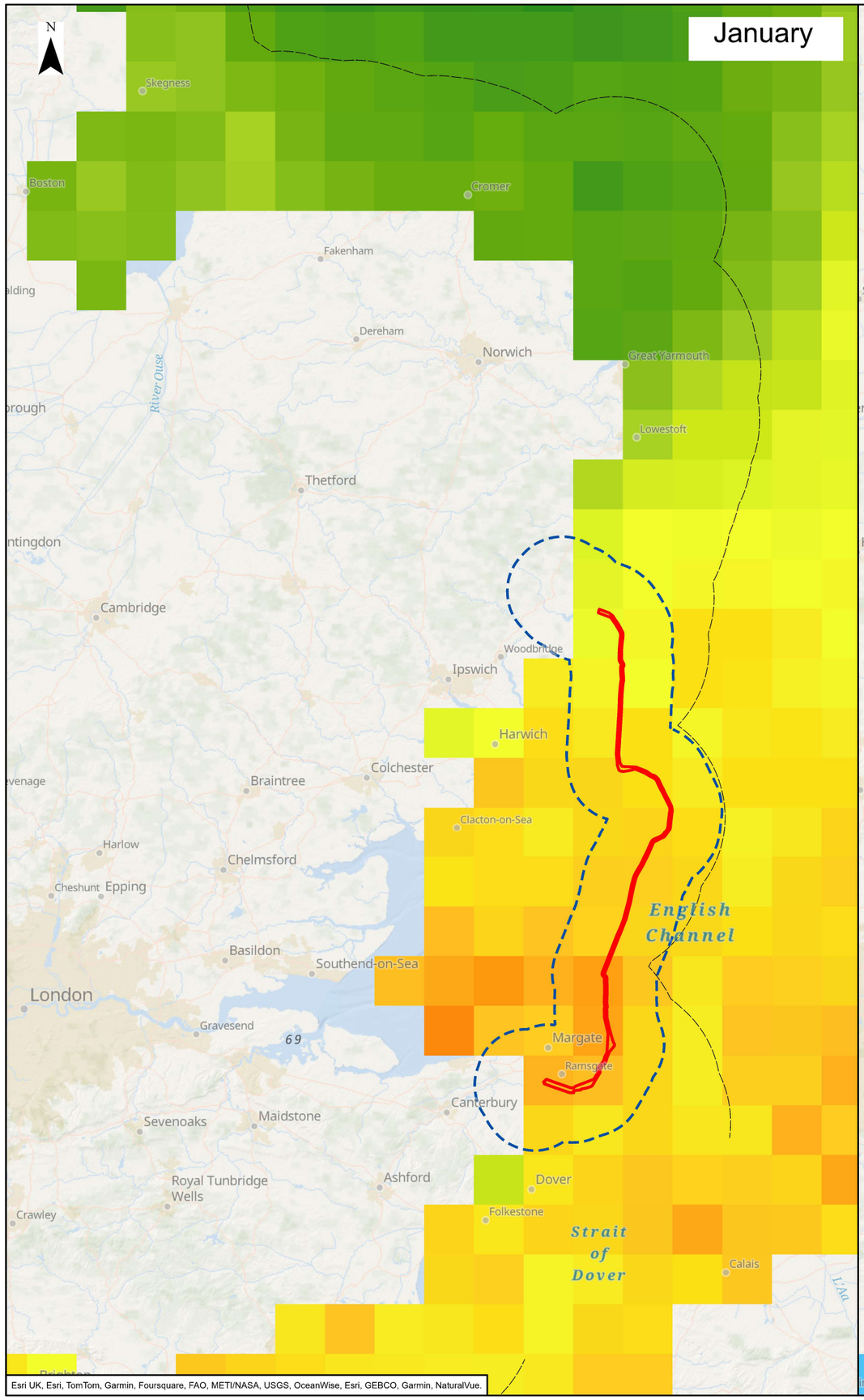

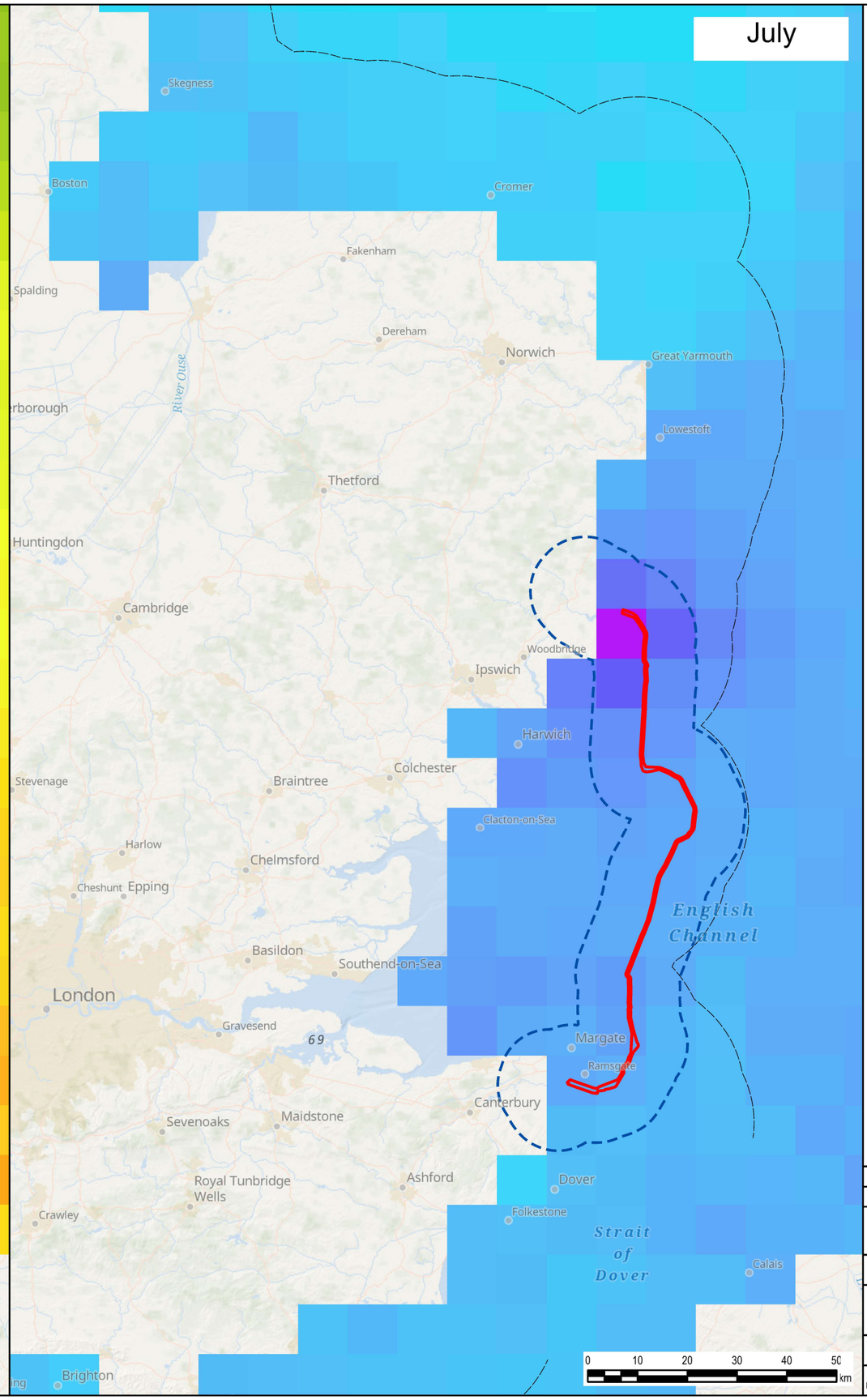

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Legend

Offshore Scheme Boundary

Study Area

UK Territorial Sea Limit - 12 nm

Distribution of Lesser Black Backed Gull - January (Waggit et al 2019)

Individuals per km^2

0.089

0.011

Distribution of Lesser Black Backed Gull - July (Waggit et al 2019)

Individuals per km^2

1.339

0.106

Rev	Date	Description	GIS	Chk	App
0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	JR

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Document Title: LESSER BLACK-BACKED GULL SPATIAL VARIATION IN PREDICTED DENSITIES (INDIVIDUALS/KM^2) IN JANUARY AND JULY

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	25/11/2024	DF	25/11/2024	JR	25/11/2024

Document Ref:	Scale:	Format:	Sheets:	Rev:
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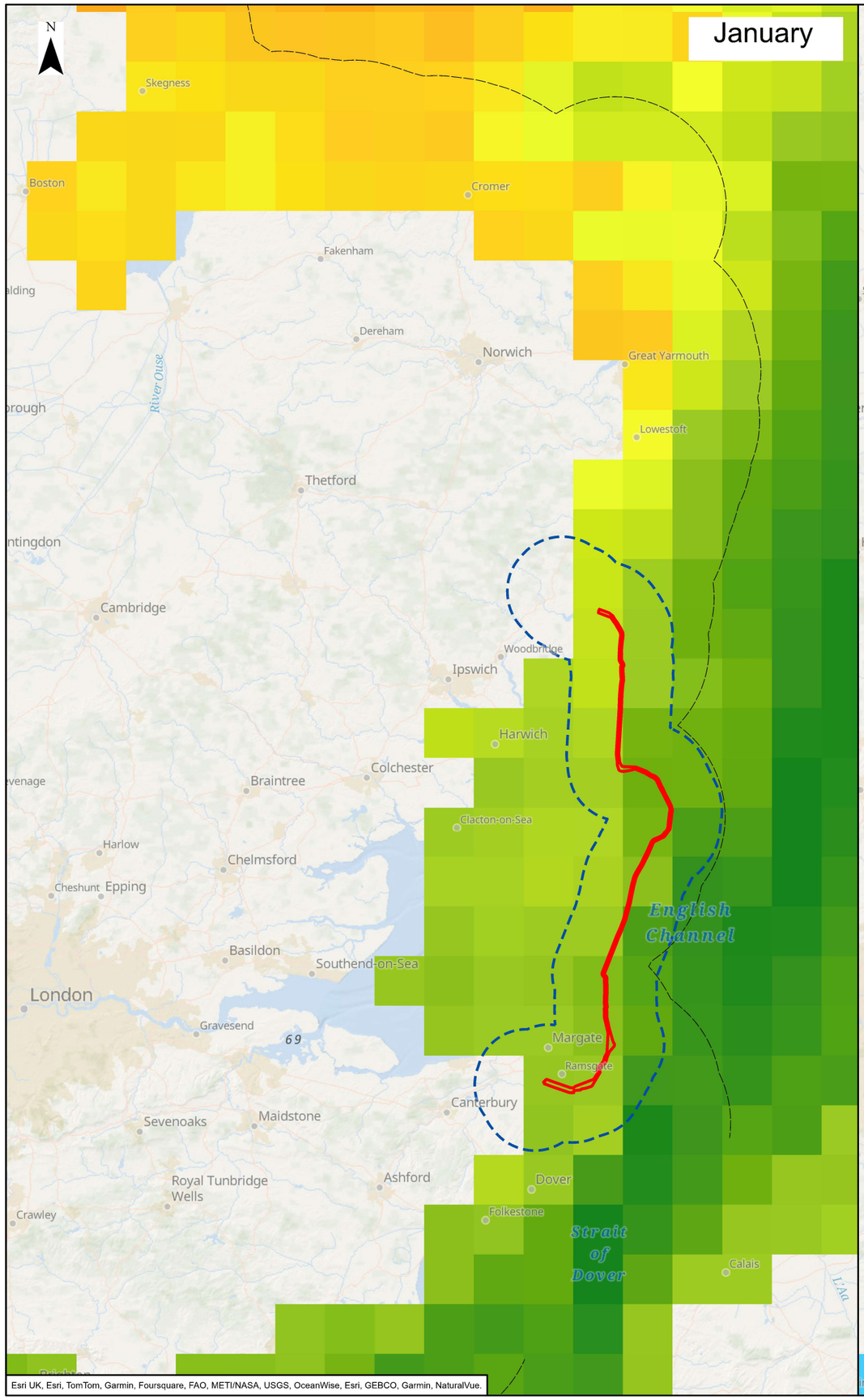

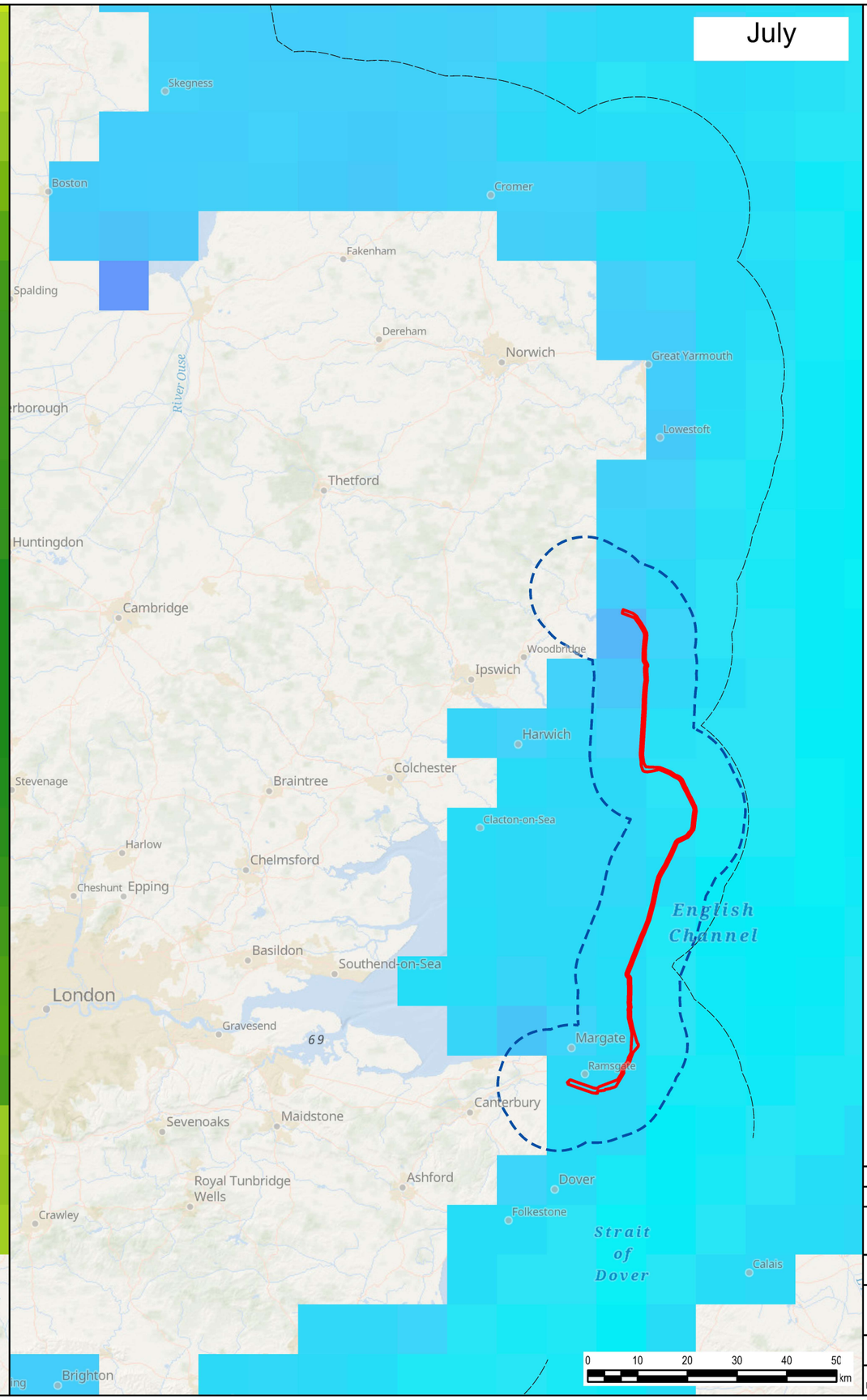

Legend

Offshore Scheme Boundary

Study Area

UK Territorial Sea Limit - 12 nm

Distribution of Herring Gull - January (Waggit et al 2019)

Individuals per km^2

0.415

0.064

Distribution of Herring Gull - July (Waggit et al 2019)

Individuals per km^2

0.714

0.025

Rev	Date	Description	GIS	Chk	App
0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	JR

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Document Title: HERRING GULL SPATIAL VARIATION IN PREDICTED DENSITIES (INDIVIDUALS/KM^2) IN JANUARY AND JULY (SOURCE: WAGGIT ET AL., 2020)

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	25/11/2024	DF	25/11/2024	JR	25/11/2024

Document Ref:	Scale:	Format:	Sheets:	Rev:
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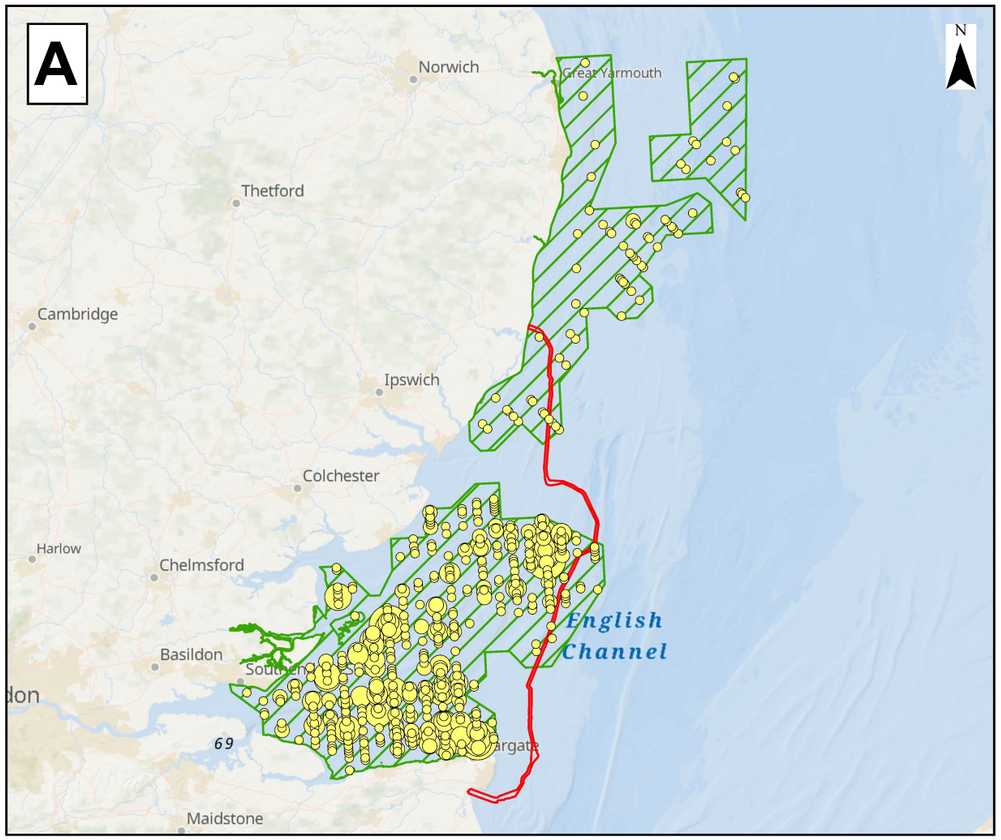

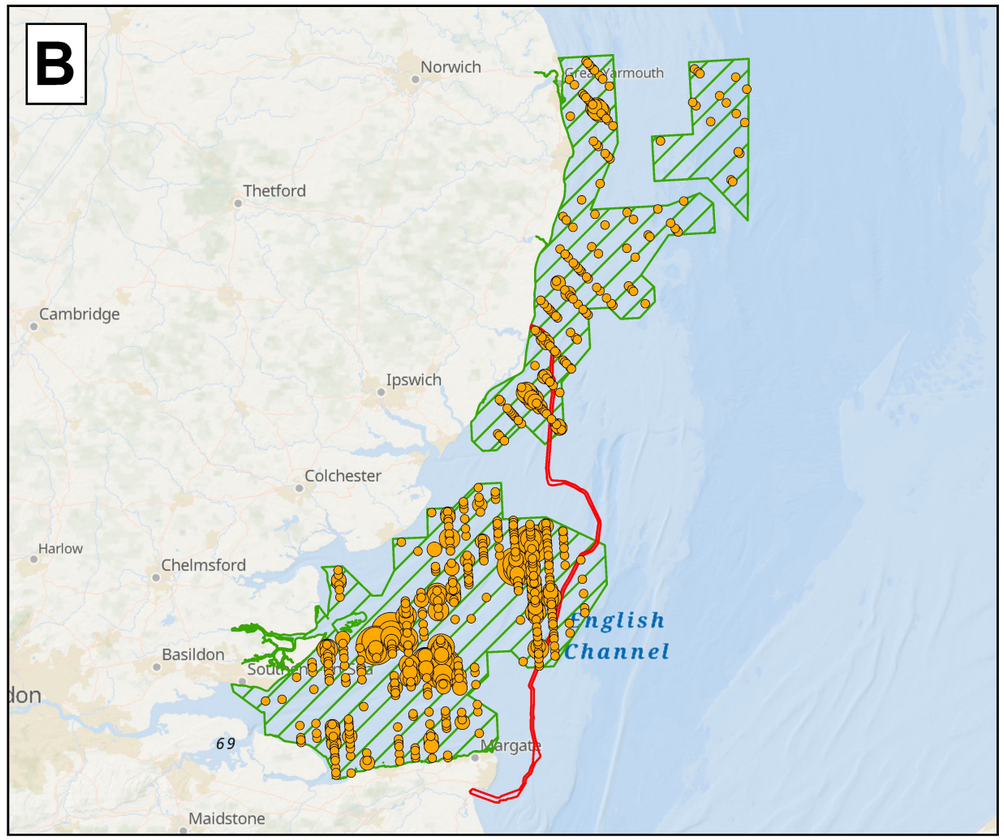

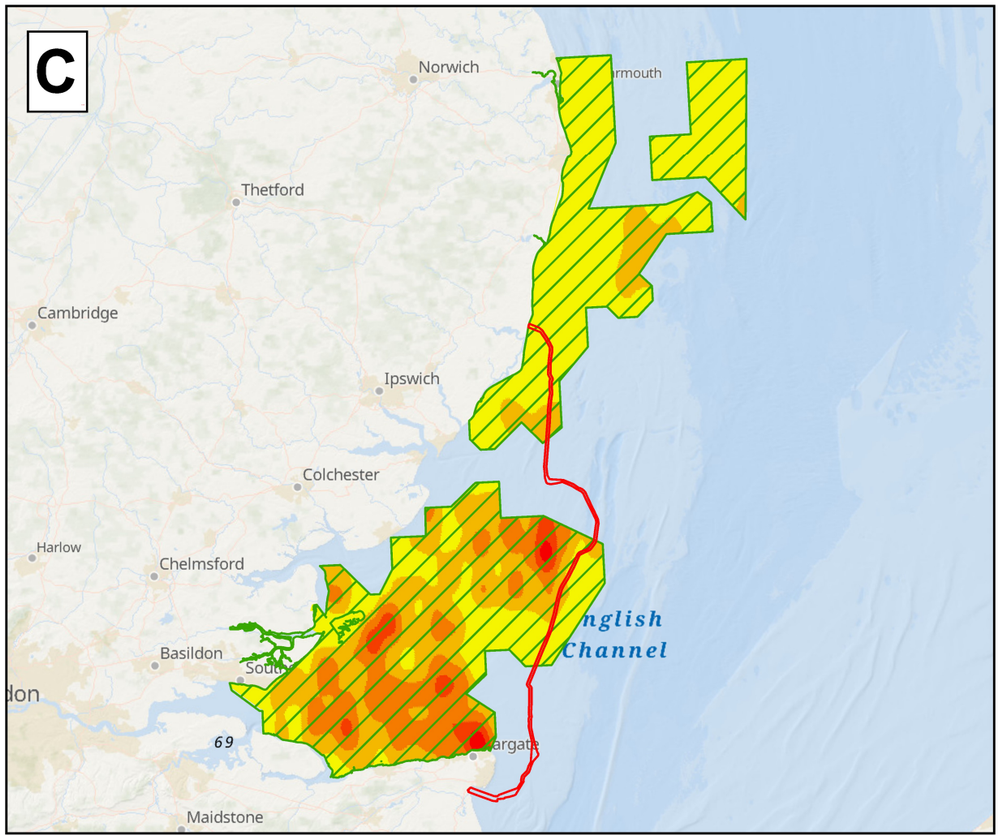

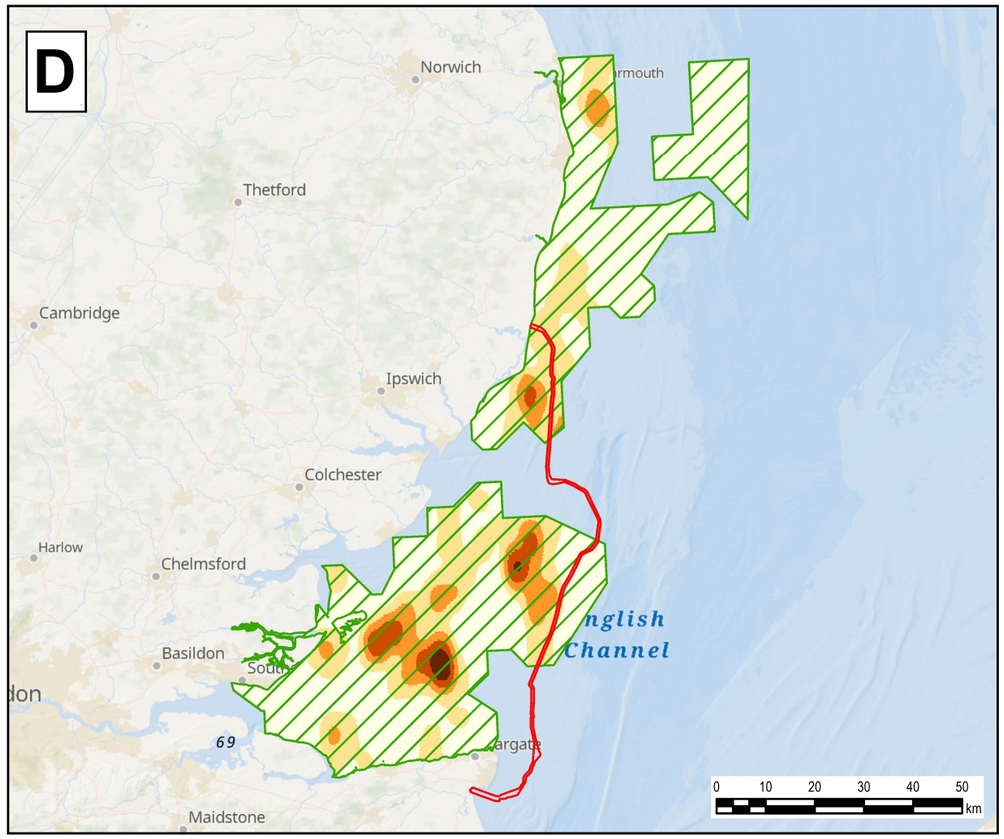

Legend

Offshore Scheme Boundary

Red Throated Diver 1 - Raw Data

- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 14
- 15+

Red Throated Diver 2 - Raw Data

- 1 - 4
- 5 - 12
- 13 - 25
- 26 - 50
- 51+

Red Throated Diver 1 - Density

- 0.7 - 1.4
- 1.5 - 4.2
- 4.3 - 9.8
- 9.9 - 18
- 19+

Red Throated Diver 2 - Density

- 0 - 3.3
- 3.3 - 11.97
- 11.97 - 29.04
- 29.04 - 57.47
- 57.47+

Outer Thames Estuary Special Protection Area (SPA)

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0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	AB

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Document Title: RED-THROATED DIVER COUNTS (INDIVIDUALS) AND DENSITIES (NUMBER/KM^2) IN THE OUTER THAMES ESTUARY SPA RECORDED BY NATURAL ENGLAND IN FEBRUARY 2018

Creator:	Date:	Checker:	Date:	Approver:	Date:
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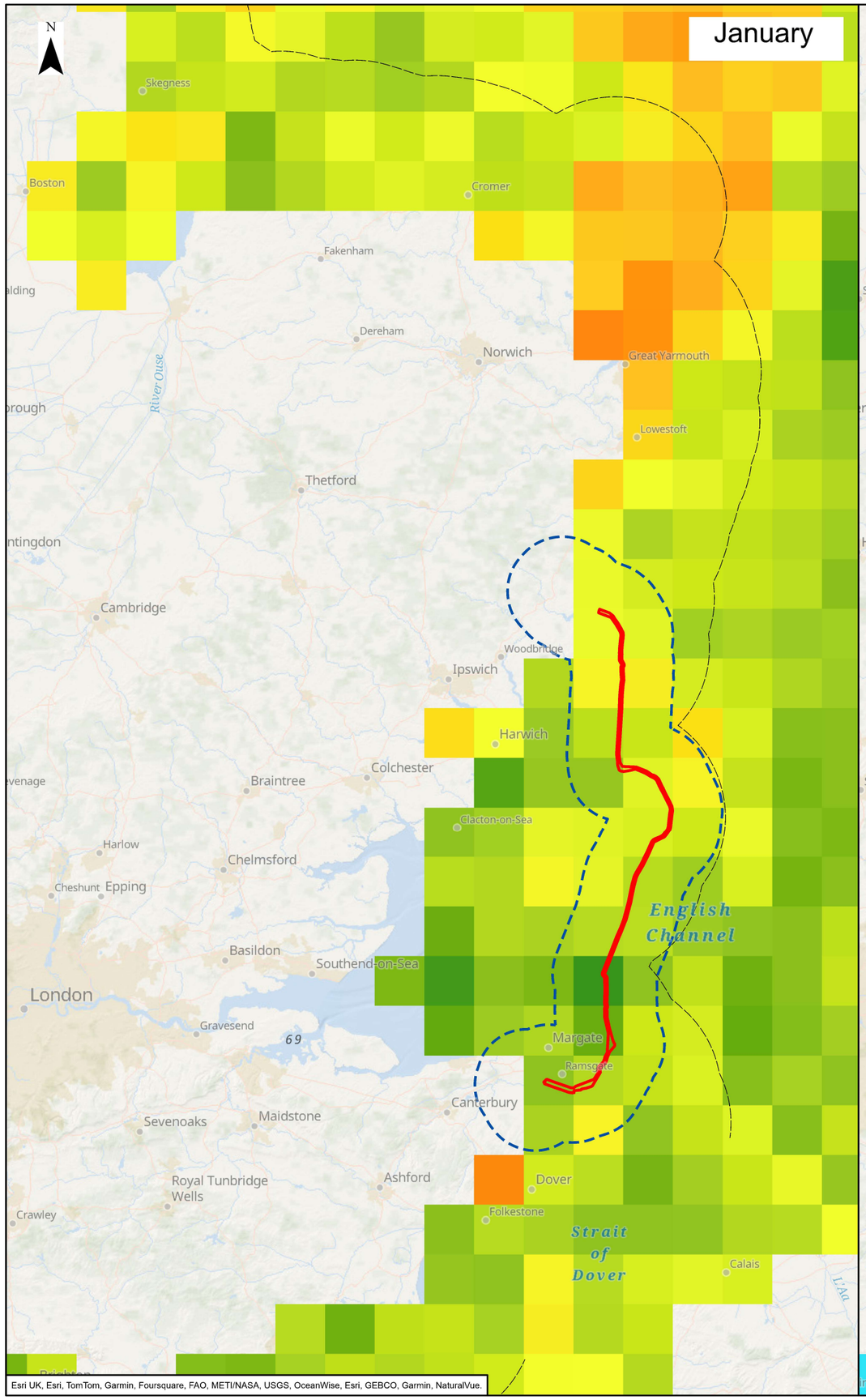

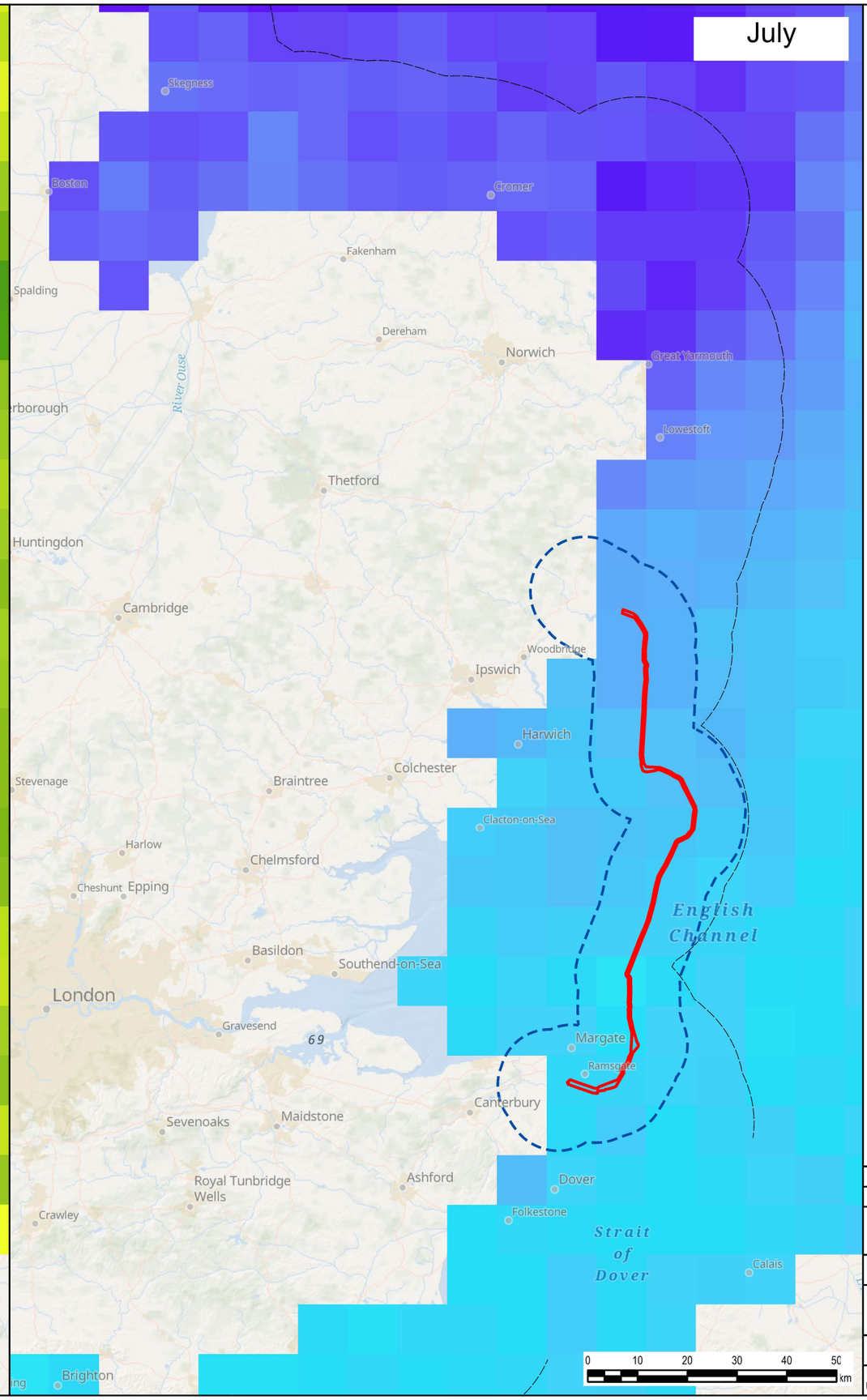

Legend

Offshore Scheme Boundary

Study Area

UK Territorial Sea Limit - 12 nm

Distribution of Razor Bill - January (Waggit et al 2019)

Individuals per km^2

0.321

0.136

Distribution of Razor Bill - July (Waggit et al 2019)

Individuals per km^2

0.101

0.008

Rev	Date	Description	GIS	Chk	App
0	25/11/2024	ENVIRONMENTAL STATEMENT	EB	DF	JR

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Scheme: SEA LINK

Document Title: RAZOR BILL SPATIAL VARIATION IN PREDICTED DENSITIES (INDIVIDUALS/KM^2) IN JANUARY AND JULY (SOURCE: WAGGIT ET AL., 2020)

Creator:	Date:	Checker:	Date:	Approver:	Date:
EB	25/11/2024	DF	25/11/2024	JR	25/11/2024

Document Ref:	Scale:	Format:	Sheets:	Rev:
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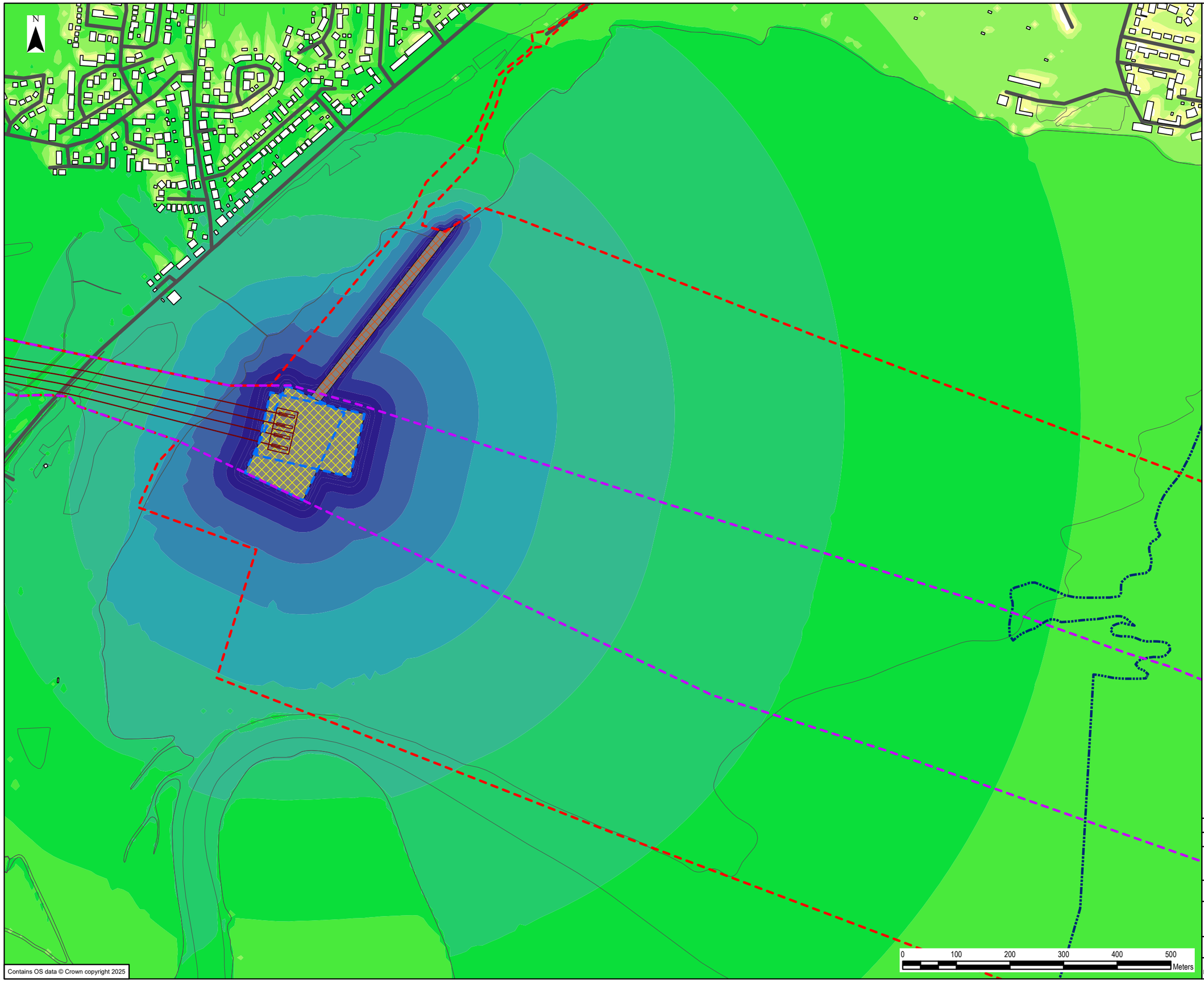

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Legend

- Order limits
- Limits of deviation
- MLWS
- Site plan
- HDD exit
- Illustrative access route corridor
- HDD working area

Noise level (dB)

- < 20
- 30 to <35
- 35 to <40
- 40 to <45
- 45 to <50
- 50 to <55
- 55 to <60
- 60 to <65
- 65 to <70
- 70 to <75
- 75 to <80
- >=80

Illustrative scenario assuming piling rig (source level L_{Afmax} at 10 m 91 dB) operating anywhere in HDD exit area and construction vehicles (source level L_{Afmax} at 10 m 79 dB on access route

Vehicle access routes are INDICATIVE ONLY for the purposes of noise modelling. The final access routes and widths will be determined pre-construction and will be informed by a pre-construction saltmarsh survey

For the purpose of completeness the modelling assumes that the vehicles will gain access to the mudflats via the front edge of the hoverport (as included in the Order Limit change)

Rev	Date	Description	GIS	Chk	App
0	04/12/2025	ORIGINAL ISSUE	AP	NG	SE

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Scheme: SEA LINK

Document Title: Predicted maximum (L_{AFmax}) noise levels - phases 1 and 2

Creator:	Date:	Checker:	Date:	Approver:	Date:
AP	04/12/2025	NG	04/12/2025	SE	04/12/2025

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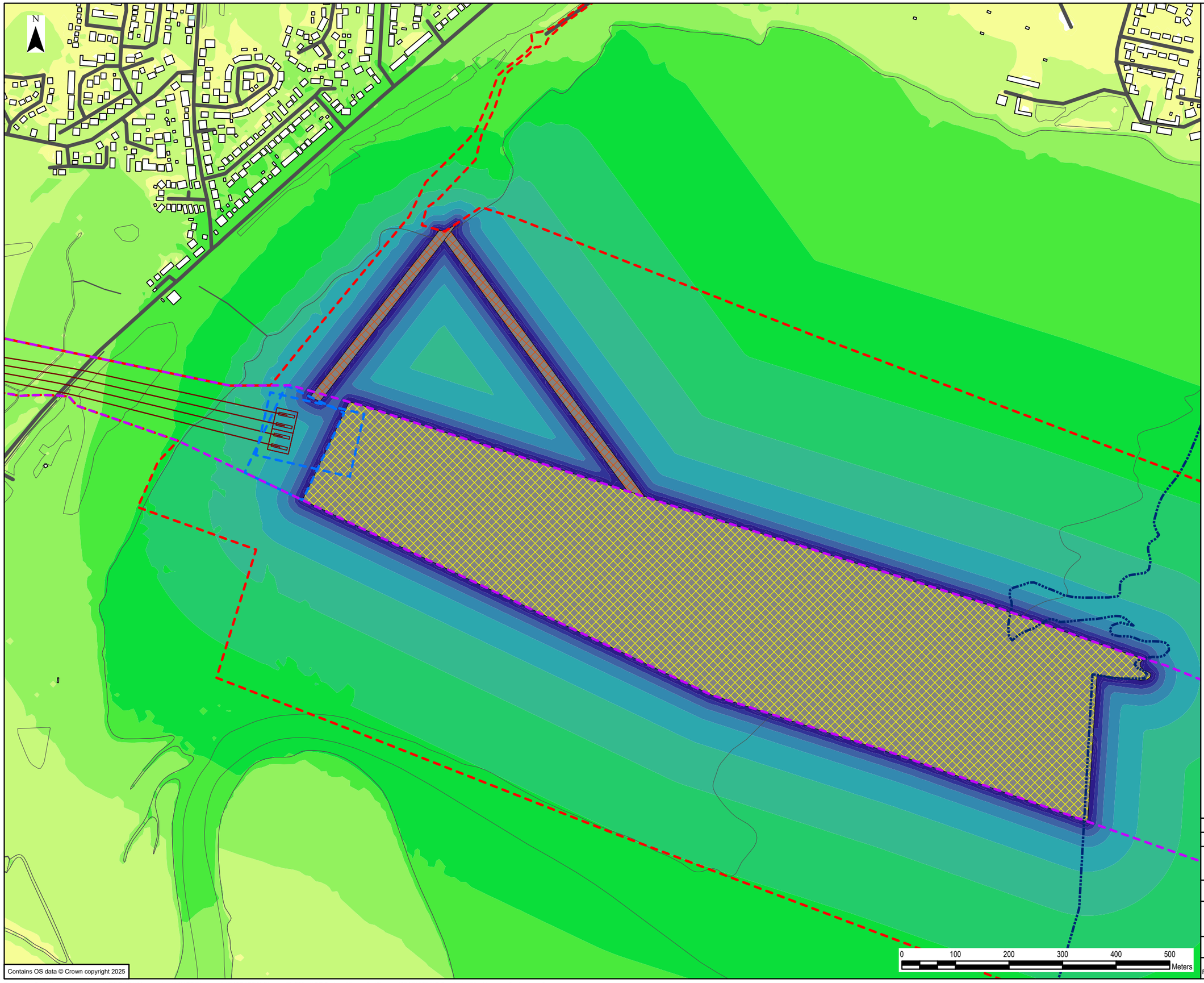

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Legend

- Order limits
- Limits of deviation
- MLWS
- Site plan
- HDD exit
- Illustrative access route corridor
- Cable pull in working corridor

Noise level (dB)

- < 20
- 30 to <35
- 35 to <40
- 40 to <45
- 45 to <50
- 50 to <55
- 55 to <60
- 60 to <65
- 65 to <70
- 70 to <75
- 75 to <80
- >=80

Illustrative scenario assuming construction vehicles / excavators (source level L_{Afmax} at 10 m 79 dB) operating anywhere in cable pull in area and on access routes

Vehicle access routes are INDICATIVE ONLY for the purposes of noise modelling. The final access routes and widths will be determined pre-construction and will be informed by a pre-construction saltmarsh survey

For the purpose of completeness the modelling assumes that the vehicles will gain access to the mudflats via the front edge of the hoverport (as included in the Order Limit change)

Rev	Date	Description	GIS	Chk	App
0	04/12/2025	ORIGINAL ISSUE	AP	NG	SE

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Scheme: SEA LINK

Document Title: Predicted maximum (L_{AFmax}) noise levels - phases 3 and 4

Creator:	Date:	Checker:	Date:	Approver:	Date:
AP	04/12/2025	NG	04/12/2025	SE	04/12/2025

Document Ref:	Scale:	Format:	Sheets:	Rev:
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