



Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

Volume 2

Chapter 25 - Seascape and Visual Impact Assessment

August 2022

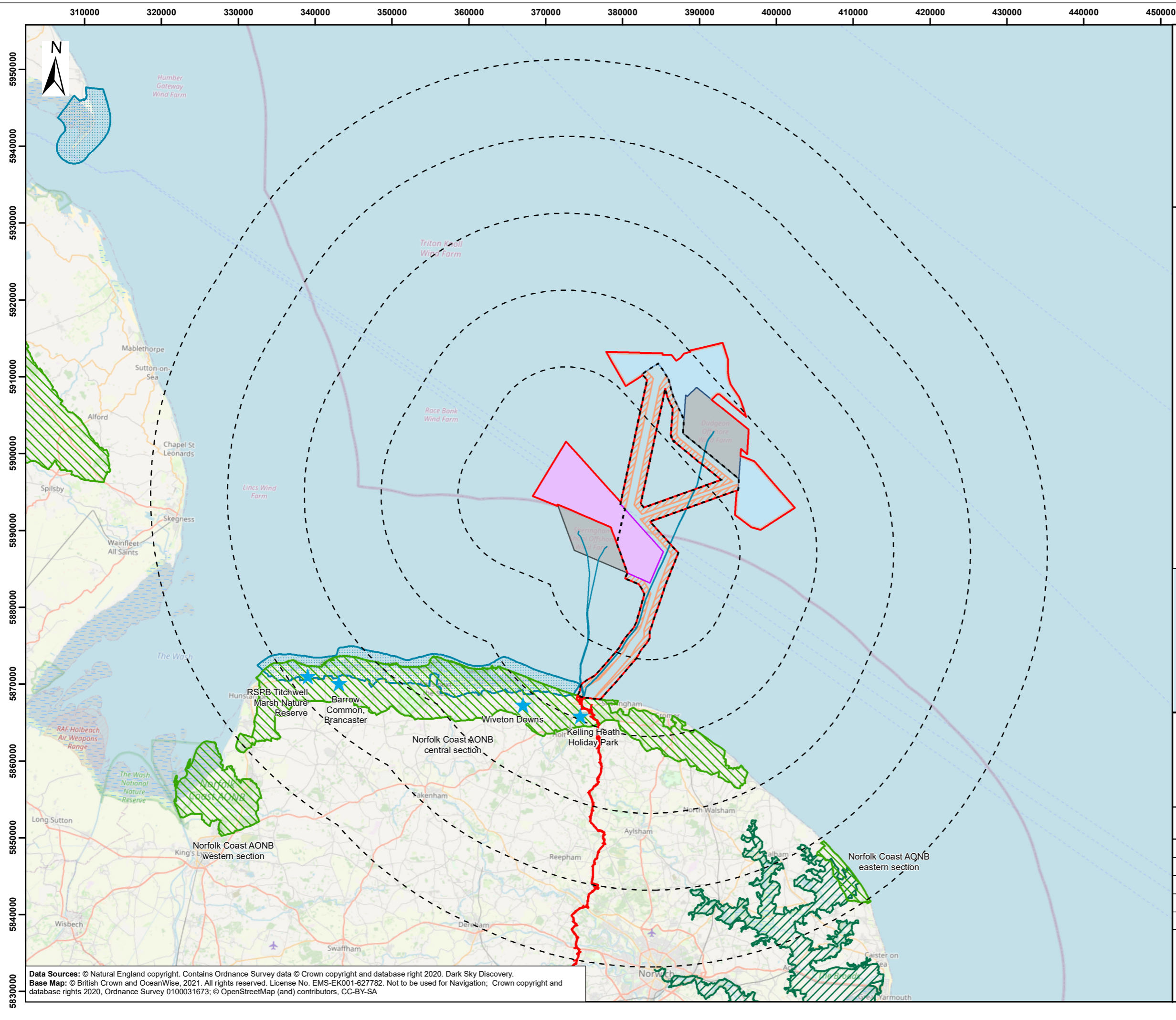
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APFP Regulation: 5(2)(a)

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Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.1
Landscape and Seascape Policy
Sheringham Shoal Extension Project

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:
- Order Limits
 - Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
 - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
 - Offshore Cable Corridors
 - Offshore Temporary Work
 - Existing Offshore Wind Farm
 - Existing Offshore Wind Farm Export Cable
 - Distance from Sheringham Shoal Offshore Wind Farm Extension Site (10,20,30,40,50km)
 - Area of Outstanding Natural Beauty (AONB)
 - Norfolk Broads National Park
 - North Norfolk Heritage Coast
 - ★ Dark Sky Discovery Site (Milky Way class, hosts events)



Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
0 8 16 Miles

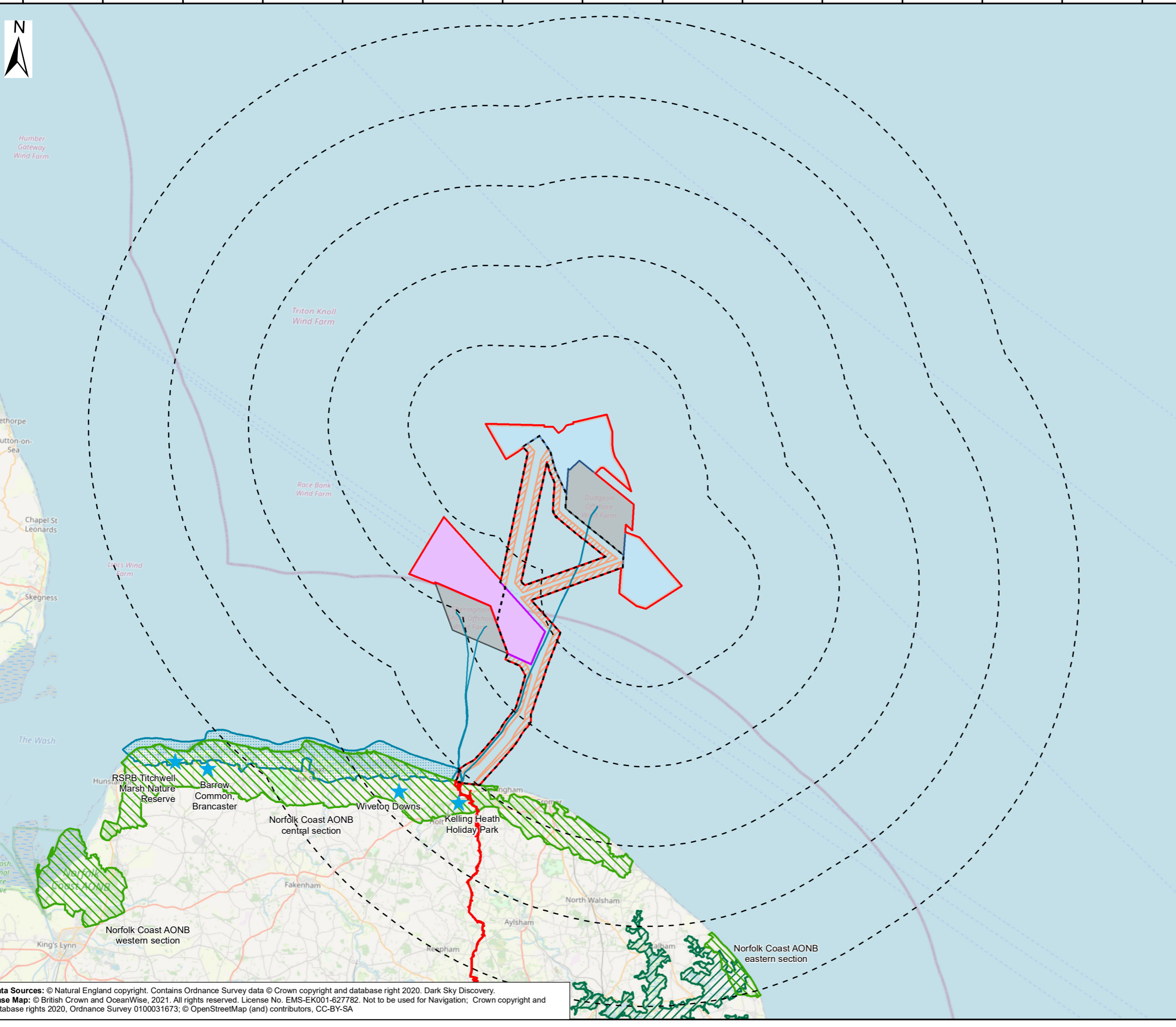
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320000 330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000 460000



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Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.2
 Landscape and Seascape Policy
 Dudgeon Extension Project

Document: Environmental Statement (ES)
 Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:
- Order Limits
 - Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
 - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
 - Offshore Cable Corridors
 - Offshore Temporary Work
 - Existing Offshore Wind Farm
 - Existing Offshore Wind Farm Export Cable
 - Distance from Dudgeon Offshore Wind Farm Extension Site (10,20,30,40,50km)
 - Area of Outstanding Natural Beauty (AONB)
 - Norfolk Broads National Park
 - North Norfolk Heritage Coast
 - ★ Dark Sky Discovery Site (Milky Way class, hosts events)



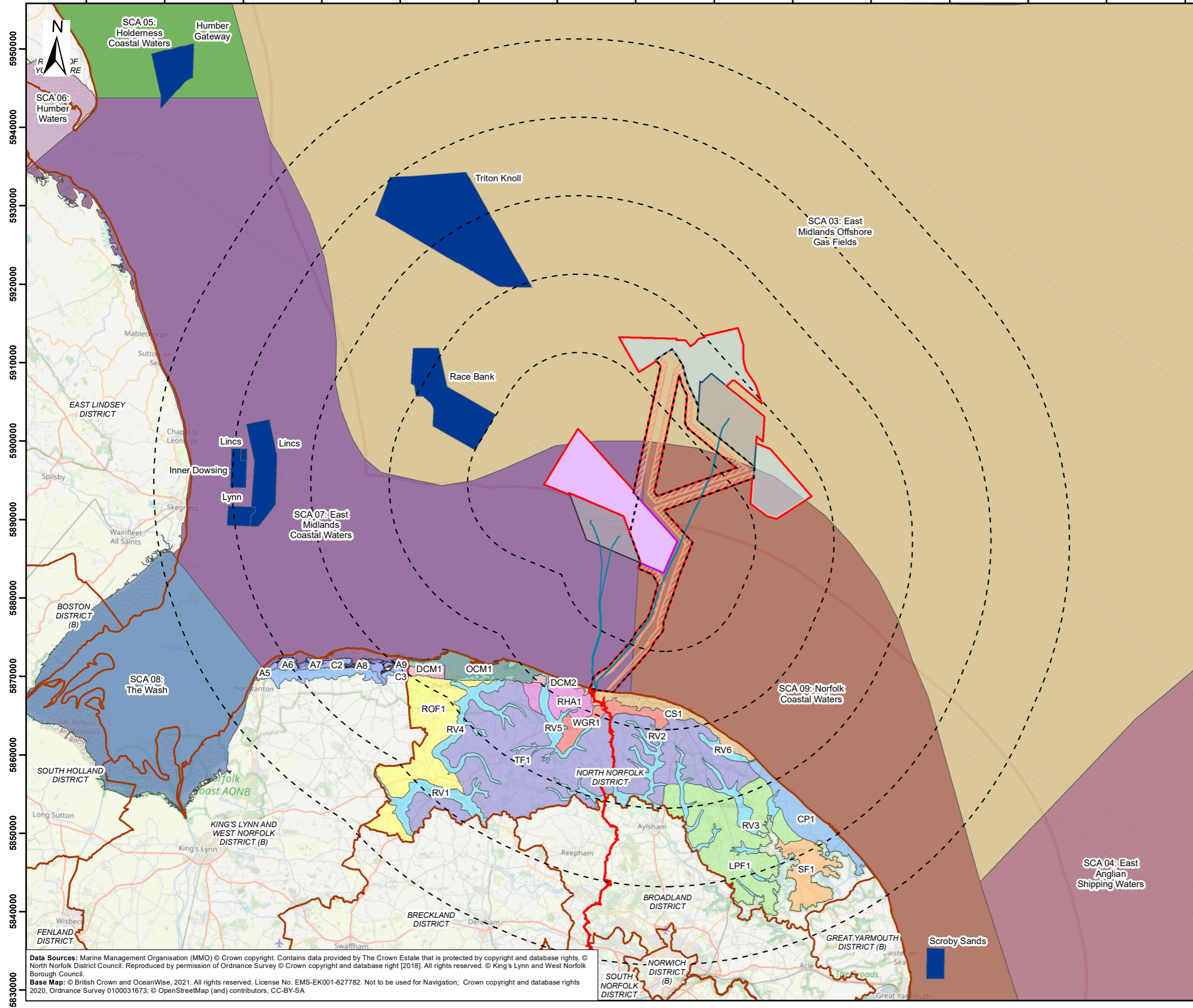
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Scale: 1:470,000 Scale at size: A3

Equinor Doc. no.: C282-LD-Z-GA-00003
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310000 320000 330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000



Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.3
Landscape and Seascape Character
Sheringham Shoal Extension Project

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment
Application Doc. no.: 6,2,25

- Legend:**
- Order Limits
 - Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
 - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
 - Offshore Cable Corridors
 - Offshore Temporary Work
 - Existing Offshore Wind Farm
 - Existing Offshore Wind Farm Export Cable
 - Distance from Sheringham Shoal Offshore Wind Farm Extension Site (10,20,30,40,50km)
 - Other Existing Offshore Wind Farms: Active/In
 - District boundary
- Kings Lynn Landscape Character Types**
- A - Open Coastal Marshes
 - C - Coastal Slopes
- North Norfolk Landscape Character Types**
- Coastal Plain (CP)
 - Drained Coastal Marshes (DCM)
 - Coastal Shelf (CS)
 - Low Plains Farmland (LPF)
 - Open Coastal Marshes (OCM)
 - River Valleys (RV)
 - Rolling Open Farmland (ROF)
 - Settled Farmland (SF)
 - Tributary Farmland (TF)
 - Rolling Heath and Arable (RHA)
 - Wooded Glacial Ridge (WGR)
- East Inshore and East Offshore Seascape Character Assessment**
- SCA 02: Dogger Deep Water Channel
 - SCA 03: East Midlands Offshore Gas Fields
 - SCA 04: East Anglian Shipping Waters
 - SCA 05: Holderness Coastal Waters
 - SCA 06: Humber Waters
 - SCA 07: East Midlands Coastal Waters
 - SCA 08: The Wash
 - SCA 09: Norfolk Coastal Waters



Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

Scale: 1:470,000 Scale at size: A3

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Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.4
Landscape and Seascape Character
Dudgeon Extension Project

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:**
- Order Limits
 - Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
 - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
 - Offshore Cable Corridors
 - Offshore Temporary Work
 - Existing Offshore Wind Farm
 - Existing Offshore Wind Farm Export Cable
 - Distance from Dudgeon Offshore Wind Farm Extension Site (10,20,30,40,50km)
 - Other Existing Offshore Wind Farms: Active/In Operation
- Kings Lynn Landscape Character Types**
- A - Open Coastal Marshes
 - C - Coastal Slopes
- North Norfolk Landscape Character Types**
- Coastal Plain (CP)
 - Drained Coastal Marshes Marshes (DCM)
 - Coastal Shelf (CS)
 - Low Plains Farmland (LPF)
 - Open Coastal Marshes (OCM)
 - River Valleys (RV)
 - Rolling Open Farmland (ROF)
 - Settled Farmland (SF)
 - Tributary Farmland (TF)
 - Rolling Heath and Arable (RHA)
 - Wooded Glacial Ridge (WGR)
- East Inshore and East Offshore Seascape Character**
- SCA 02: Dogger Deep Water Channel
 - SCA 03: East Midlands Offshore Gas Fields
 - SCA 04: East Anglian Shipping Waters
 - SCA 05: Holderness Coastal Waters
 - SCA 07: East Midlands Coastal Waters
 - SCA 08: The Wash
 - SCA 09: Norfolk Coastal Waters

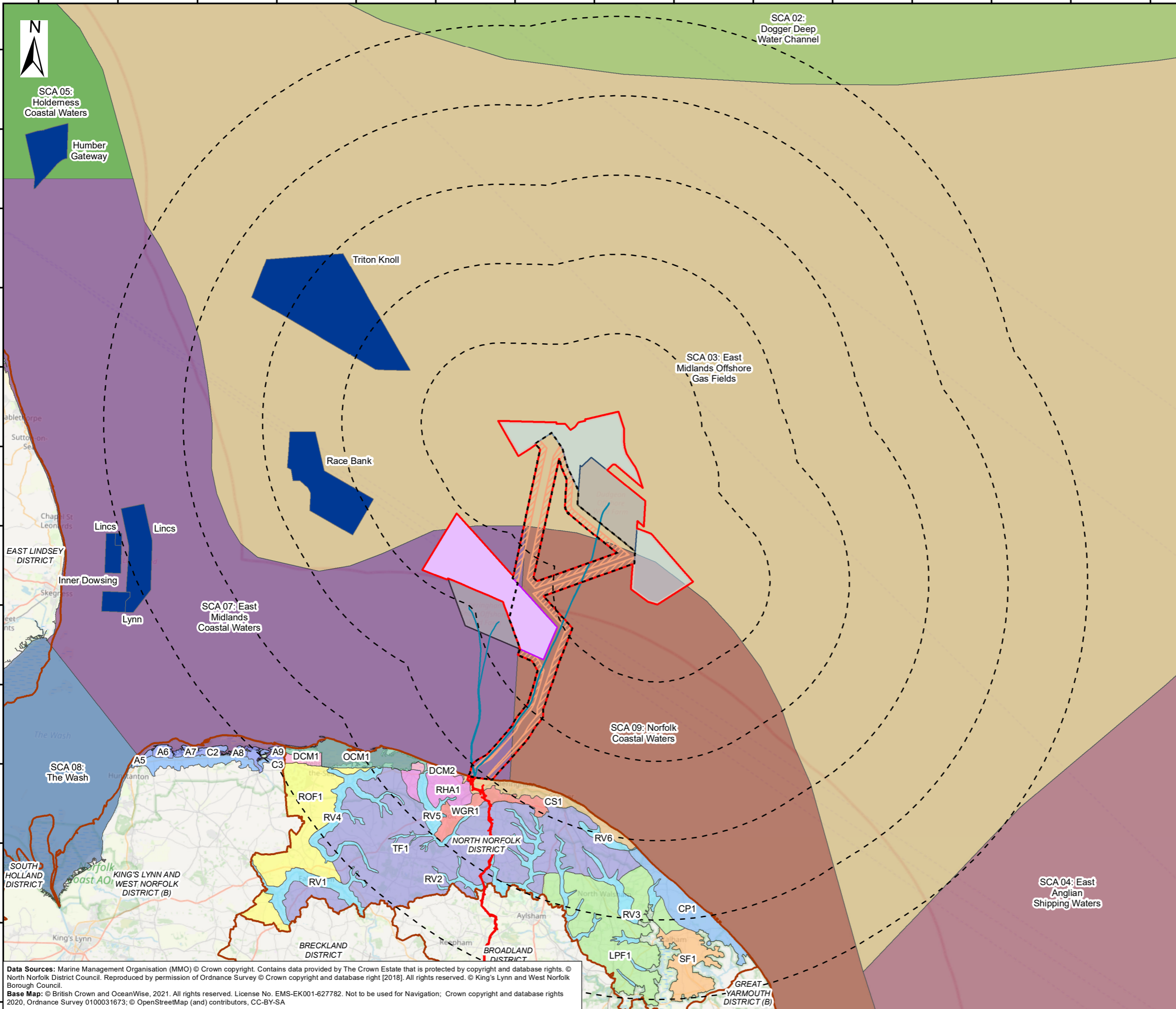


Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

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340000

350000

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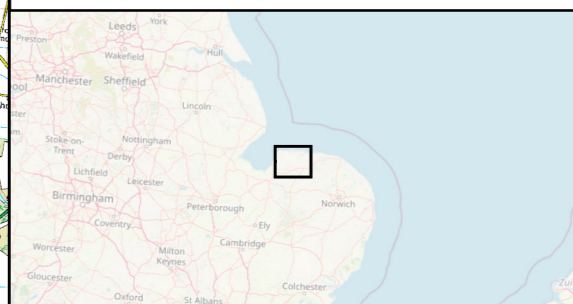
Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.6
Local Context Onshore
(Sheet 1 of 3)

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:
- Norfolk Coast Area of Outstanding Natural Beauty
 - North Norfolk Heritage Coast
 - Long distance footpath
 - National Cycle Network Route
 - Regional Cycle Network Route
 - Dark Sky Discovery Site (Milky Way class, hosts events)



Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2.5 5 km
0 1.5 3 Miles

Scale: 1:95,000 Scale at size: A3

Equinor Doc. no.: C282-LD-Z-GA-00003
RHDHV Doc. no.: PB8164_LDA_ZZ_OF_DR_Z_0053

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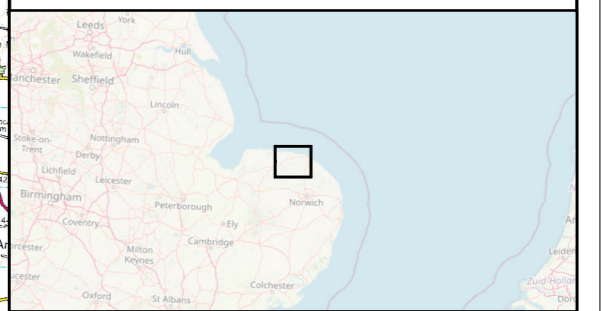
Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.7
Local Context Onshore
(Sheet 2 of 3)

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

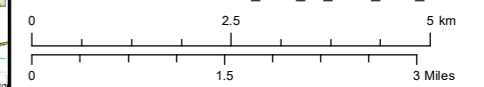
Application Doc. no.: 6,2,25

- Legend:
- Order Limits
 - Offshore Cable Corridors
 - Offshore Temporary Work Area
 - Existing Offshore Wind Farm Export Cable
 - Norfolk Coast Area of Outstanding Natural Beauty
 - North Norfolk Heritage Coast
 - Long distance footpath
 - National Cycle Network Route
 - National Cycle Network Link Route
 - Regional Cycle Network Route
 - ★ Dark Sky Discovery Site (Milky Way class, hosts events)



Coordinate Reference System: WGS 1984 UTM Zone 31N

Transformation WGS84: OSGB 1936_To_WGS_1984_7



Scale: 1:95,000

Scale at size: A3

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RHDHV Doc. no.: PB8164_LDA_ZZ_OF_DR_Z_0054

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390000

400000





410000

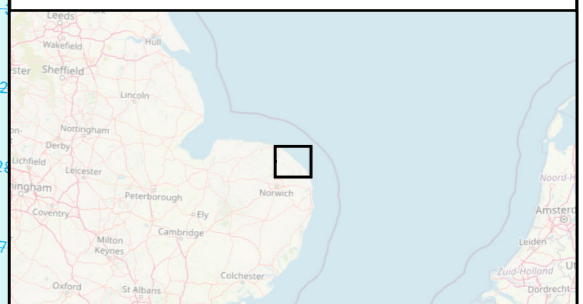
Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.8
Local Context Onshore
(Sheet 3 of 3)

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:
-  Norfolk Coast Area of Outstanding Natural Beauty
 -  The Broads National Park
 -  Long distance footpath
 -  Regional Cycle Network Route



Coordinate Reference System: WGS 1984 UTM Zone 31N
Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 2.5 5 km
0 1.5 3 Miles

Scale: 1:95,000 Scale at size: A3

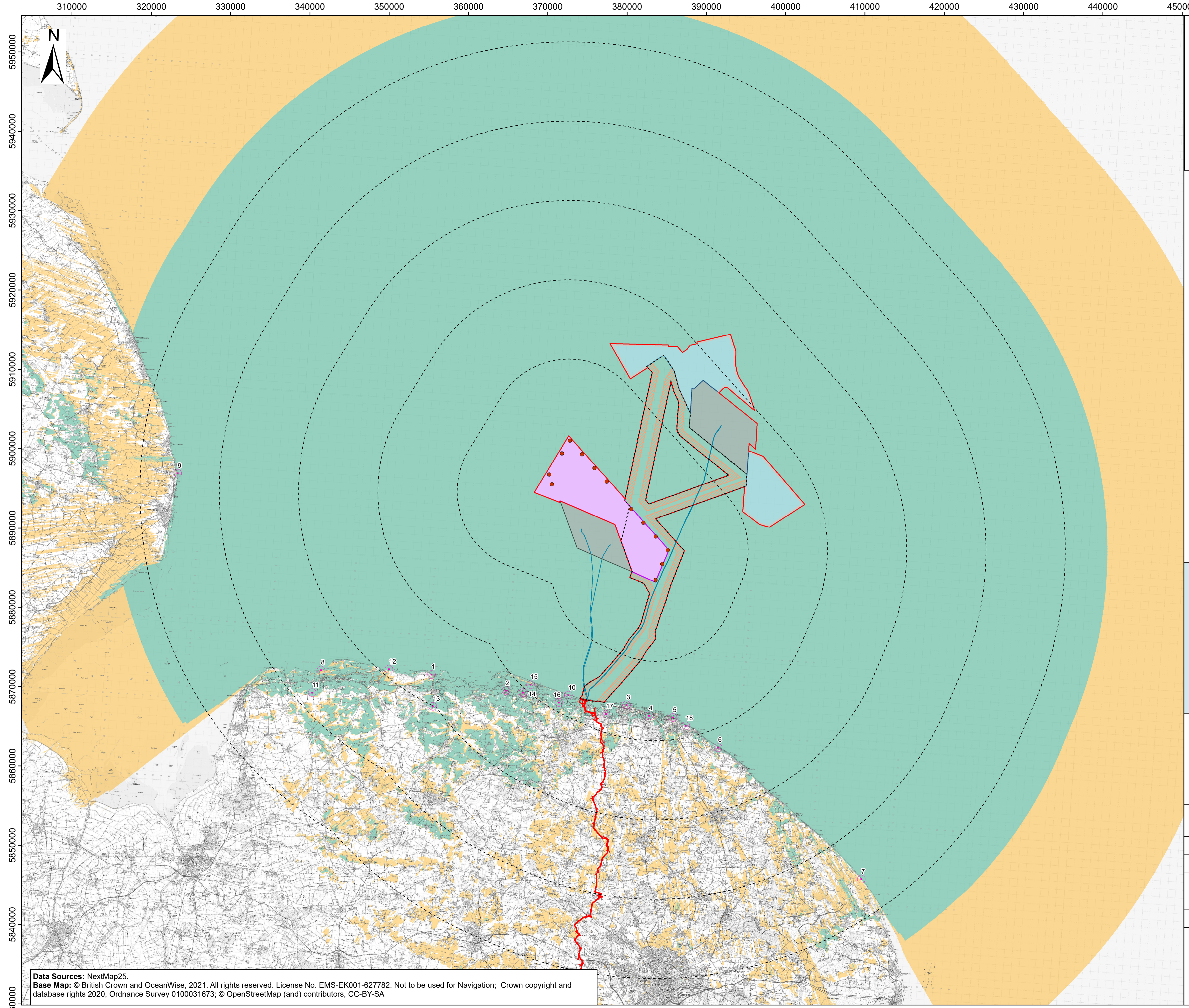
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RHDHV Doc. no.: PB8164_LDA_ZZ_OF_DR_Z_0055

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Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 25.9
Zone of Theoretical Visibility (ZTV) Study and Viewpoints
Sheringham Shoal Extension Project

Document: Environmental Statement (ES)
Chapter 25 Seascape and Visual Impact Assessment

Application Doc. no.: 6,2,25

- Legend:**
- Sheringham Shoal Extension Project indicative turbine locations
 - Order Limits
 - Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
 - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
 - Offshore Cable Corridors
 - ▨ Offshore Temporary Work
 - Existing Offshore Wind Farm
 - Existing Offshore Wind Farm Export Cable
 - Distance from Sheringham Shoal Offshore Wind Farm Extension Site (10,20,30,40,50km)
 - ⊙ Representative Viewpoints for Seascape and Visual Impact Assessment
- Zone of Theoretical Visibility (ZTV) of Sheringham Shoal Extension Project turbines (computer generated)**
- Hub height 180m
 - Tip height 330m

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and settlements, which have been included in the model with the heights obtained from Nextmap 25. It should be noted that in some areas woodlands included within the ZTV may comprise active forestry, resulting in the felling and replanting of some areas modelled in the ZTV study. The ZTV study reflects this pattern at a specific point in time, as it is based on real height information. Whilst the felling cycle will alter the heights of different areas of forestry over time, altering localised visual effects, the wider pattern will remain relatively constant.

The model does not take into account any localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. Land areas are based on Nextmap 25 terrain data and has a 25m² resolution.



Coordinate Reference System: WGS 1984 UTM Zone 31N
 Transformation WGS84: OSGB_1936_To_WGS_1984_7

0 10 20 km
 0 7.5 15 Miles

Scale: 1:230,000 Scale at size: A1

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 RHDHV Doc. no.: PB8164_LDA_ZZ_OF_DR_Z_0056

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