

Outer Dowsing Offshore Wind

Environmental Statement

Chapter 17 Seascape, Landscape and Visual Impact Assessment

Volume 2 Figures, Part 1 of 3

Date: July 2024

Document Reference: 6.2.17 V2.0
Pursuant to APEP Regulation 5(2)(A)
Rev: 2.0

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Project:	Whole Wind Farm		Sub Project/Package:	Whole Asset		
Document Title or Description:	Chapter 17 Seascape, Landscape and Visual Impact Assessment					
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Rev No.	Date	Status / Reason for Issue	Author	Checked by	Reviewed by	Approved by
01	March 2024	DCO Application	GoBe	GoBe	Shepherd & Wedderburn	Outer Dowsing
02	July 2024	Response to Section 51 advice	GoBe	GoBe	Outer Dowsing	Outer Dowsing

Figures Change Log

Date	Figure number	Figure name	Change made	Reason for Change	Revision
June 2024	17.10	Array Area Blade Tip ZTV with Landscape Character	1. Inset added to provide greater clarity in relation to the North Norfolk LCAs. Additional figure part (17.10a) added of the North Norfolk area for greater detail to be seen.	Response to Section 51 advice	2.0

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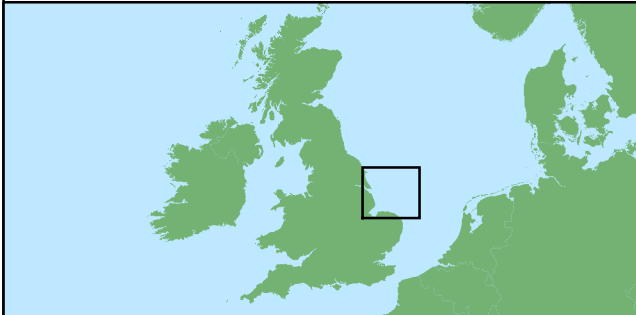
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Legend


- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Viewpoints
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- Artificial Nesting Structure (ANS) Area
- Biogenic Reef Restoration Area
- County Boundary
- District / Unitary Authority Boundary

EMODnet DTM for European Sea Regions (m)
 High : 4.23
 Low : -98.28



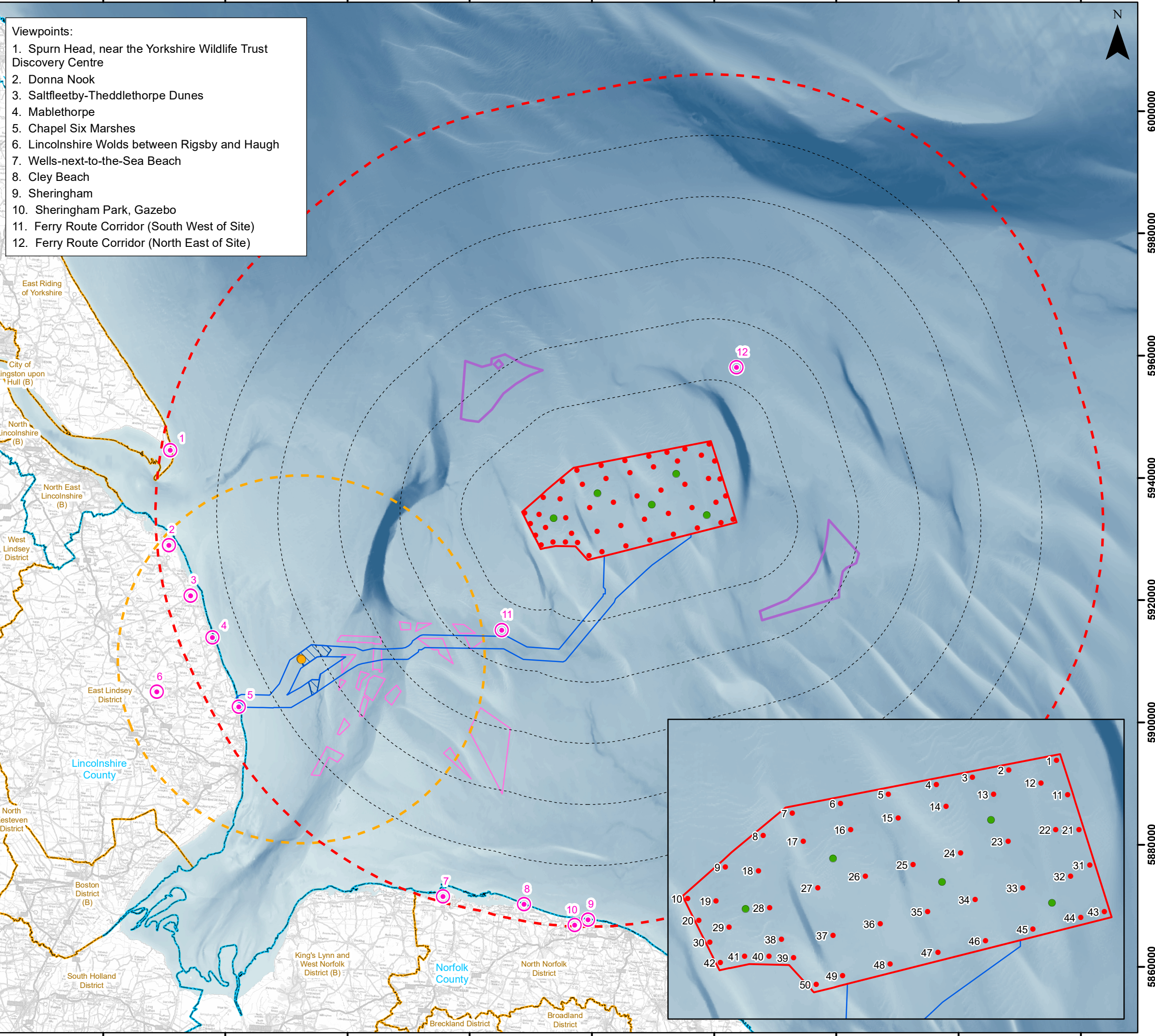
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Environmental Statement
 SLVIA Project Design Envelope
 - Maximum Design Scenario
 Figure 17.1



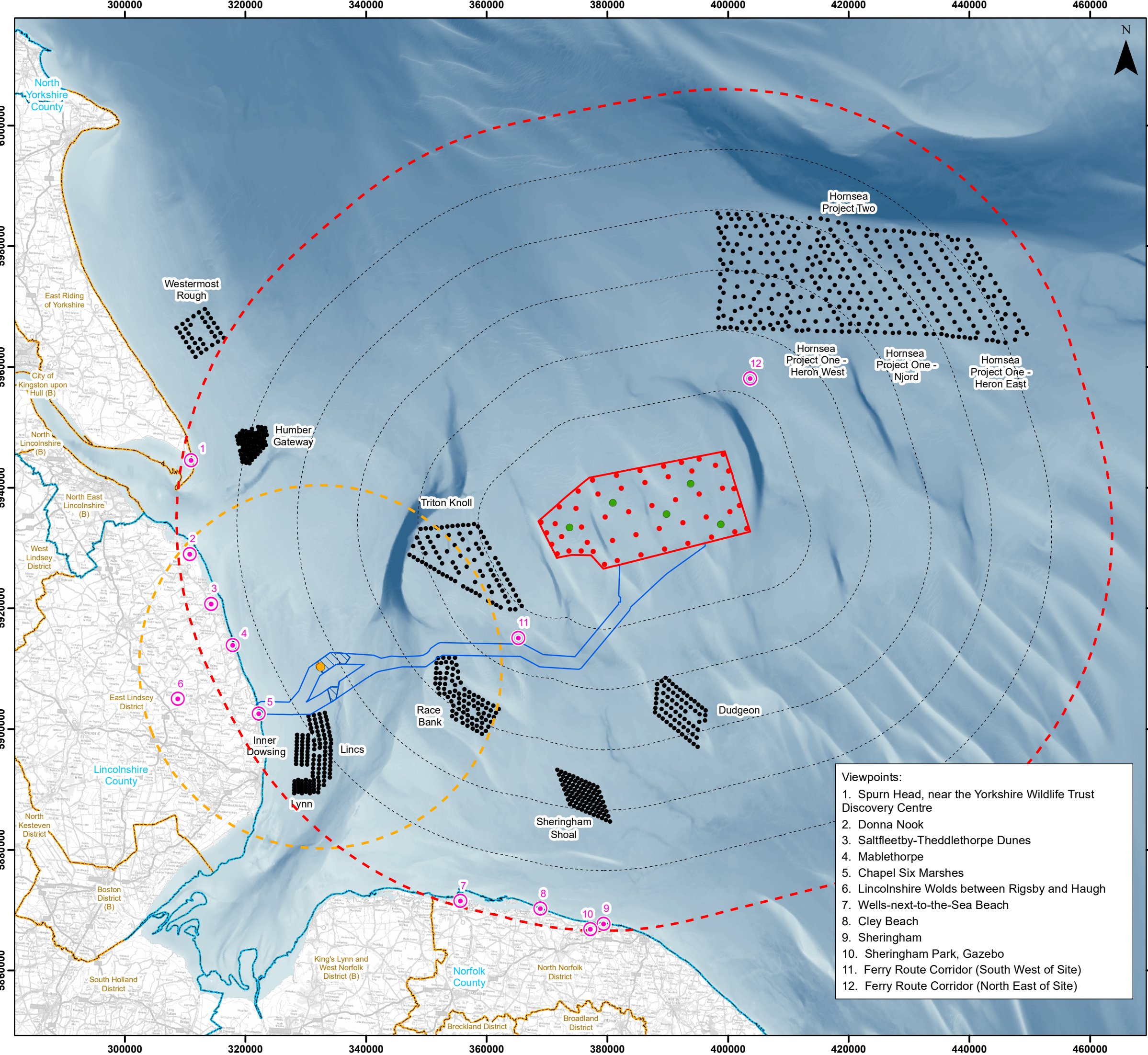
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 Revision: v0.4

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- Viewpoints:
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

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Legend

- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Viewpoints
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- County Boundary
- District / Unitary Authority Boundary

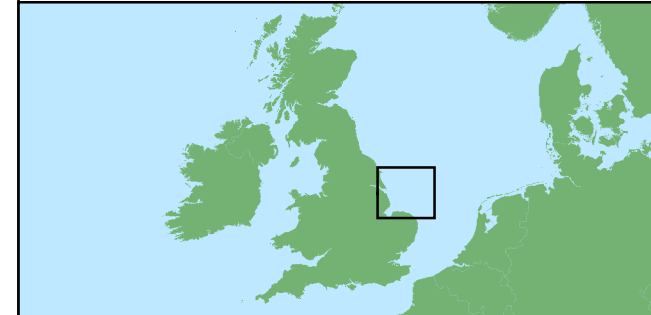
Cumulative Wind Farm Status:

- Operational

EMODnet DTM for European Sea Regions (m)

High : 4.23

Low : -98.28



Coordinate System: WGS 1984 UTM Zone 31N

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- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

Environmental Statement

SLVIA Study Area

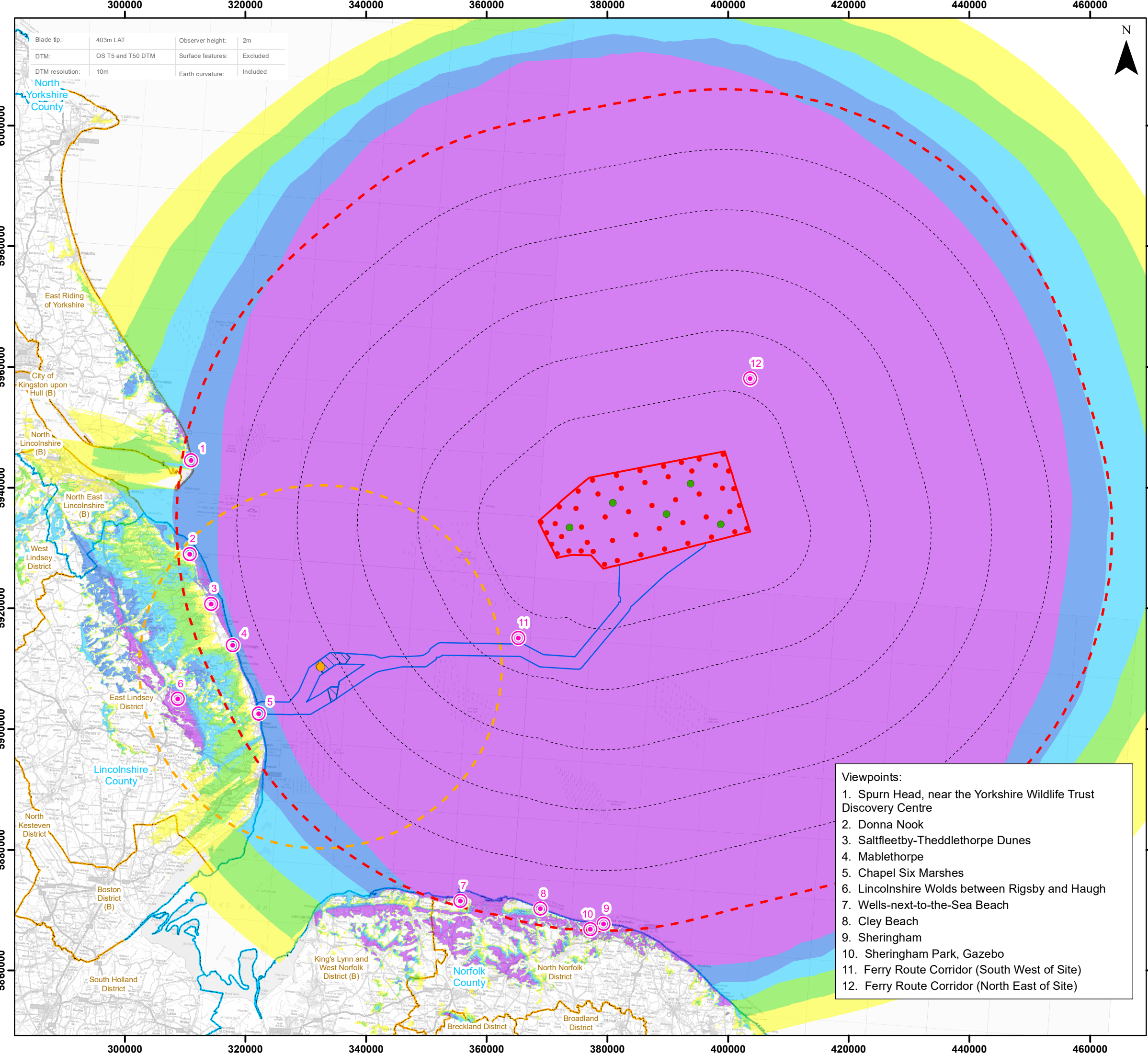
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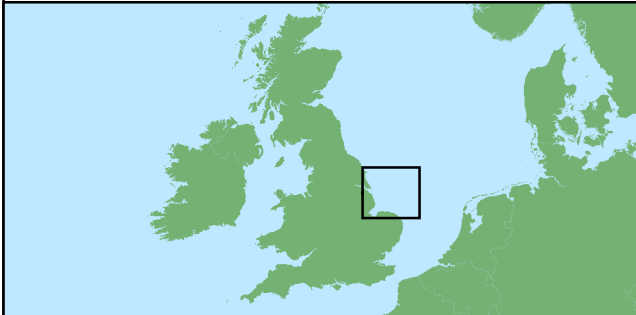
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DTM resolution:	10m	Earth curvature:	Included



Legend

- Indicative Turbine Locations
 - Indicative Offshore Platforms
 - Indicative Offshore Reactive Compensation Platform (ORCP)
 - Array Area
 - Offshore Export Cable Corridor (ECC)
 - Offshore Reactive Compensation Platform (ORCP) Area
 - 10km Radii
 - 60km Study Area
 - Offshore Reactive Compensation Platform (ORCP) 30km Study Area
 - County Boundary
 - District / Unitary Authority Boundary
- Blade Tip ZTV**
- No of Blade Tips Theoretically Visible
- 1 - 10
 - 11 - 20
 - 21 - 30
 - 31 - 40
 - 41 - 50

- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)



Coordinate System: WGS 1984 UTM Zone 31N

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Scale: 1:600,000

A3 Page Size

Environmental Statement

Array Area Blade Tip ZTV (Maximum Height) (A3)

Figure 17.3

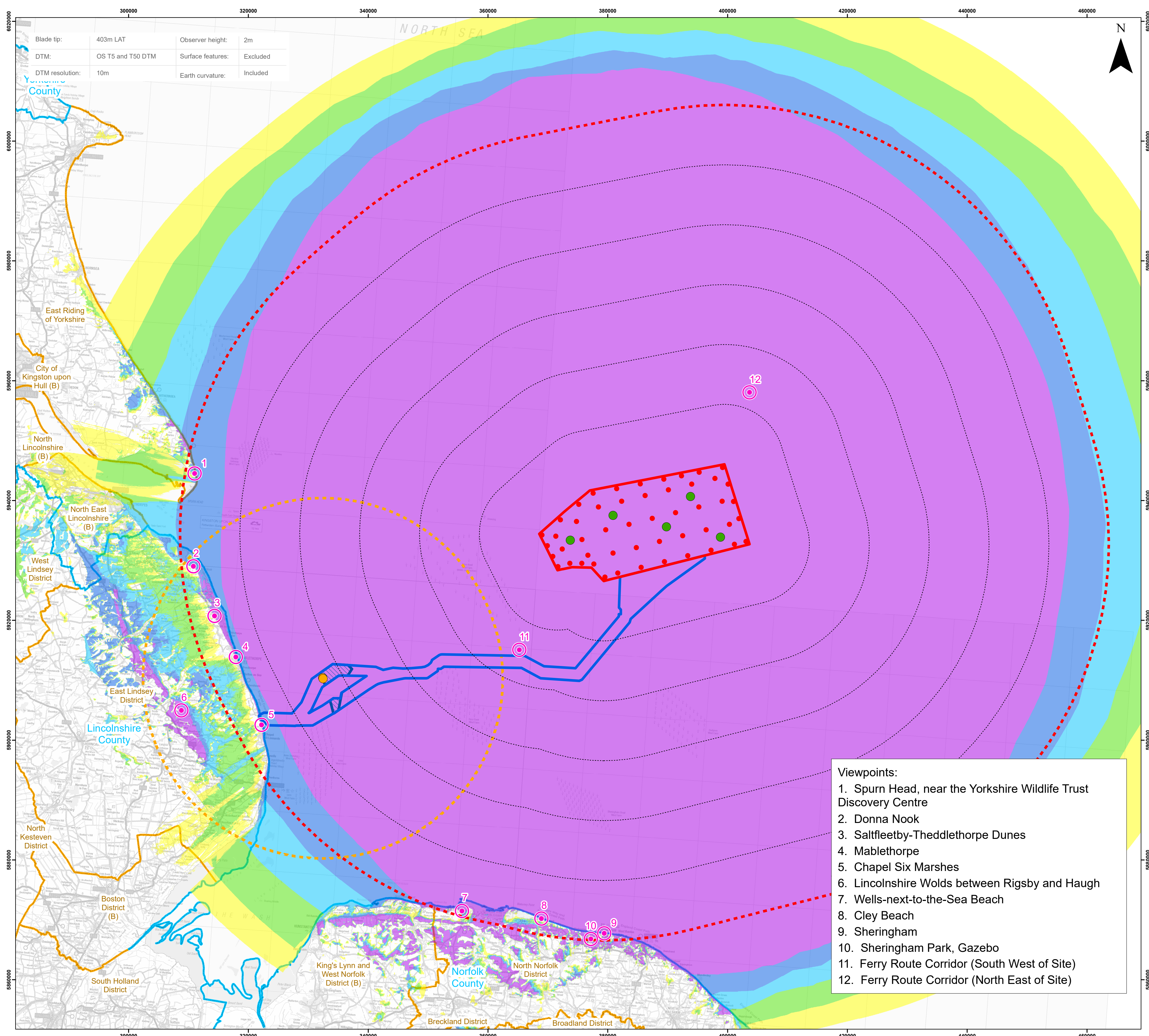


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DTM resolution:	10m	Earth curvature:	Included

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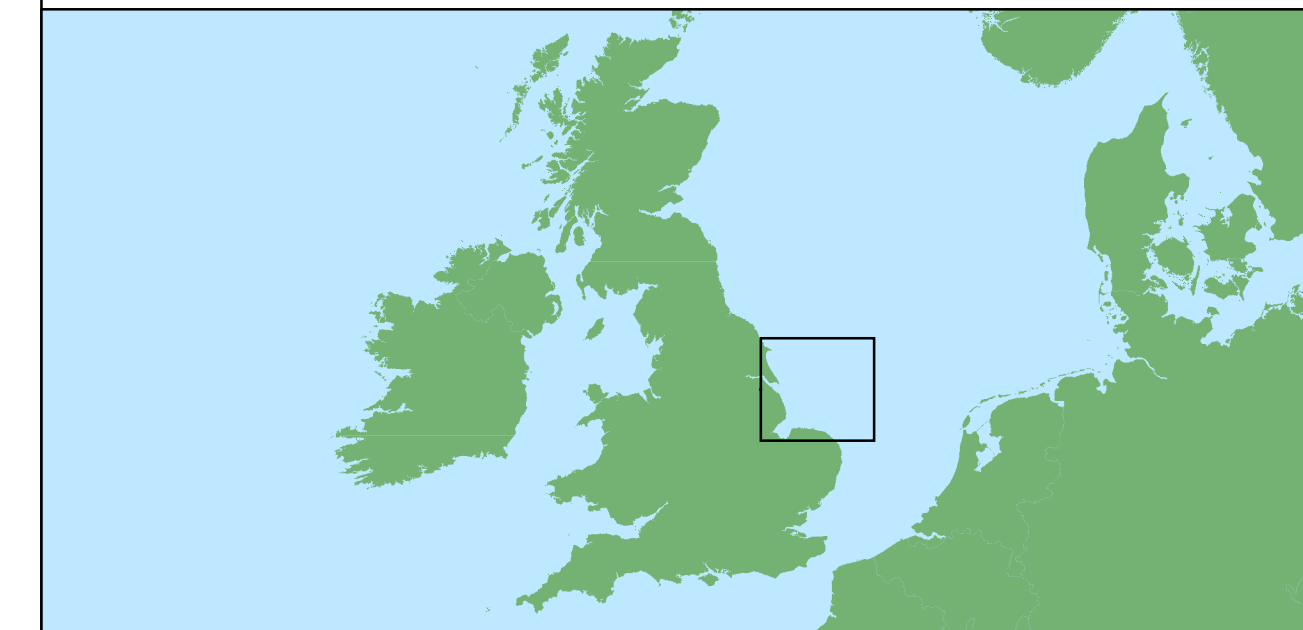
- ⊙ Viewpoints
- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- County Boundary
- District / Unitary Authority Boundary

Blade Tip ZTV

No. of Blade Tips Theoretically Visible

- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50

- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)



Coordinate System: WGS 1984 UTM Zone 31N

0 20 40 km

Scale: 1:300,000

A1 Page Size

Environmental Statement

Array Area Blade Tip ZTV (Maximum Height) (A1)

Figure 17.4

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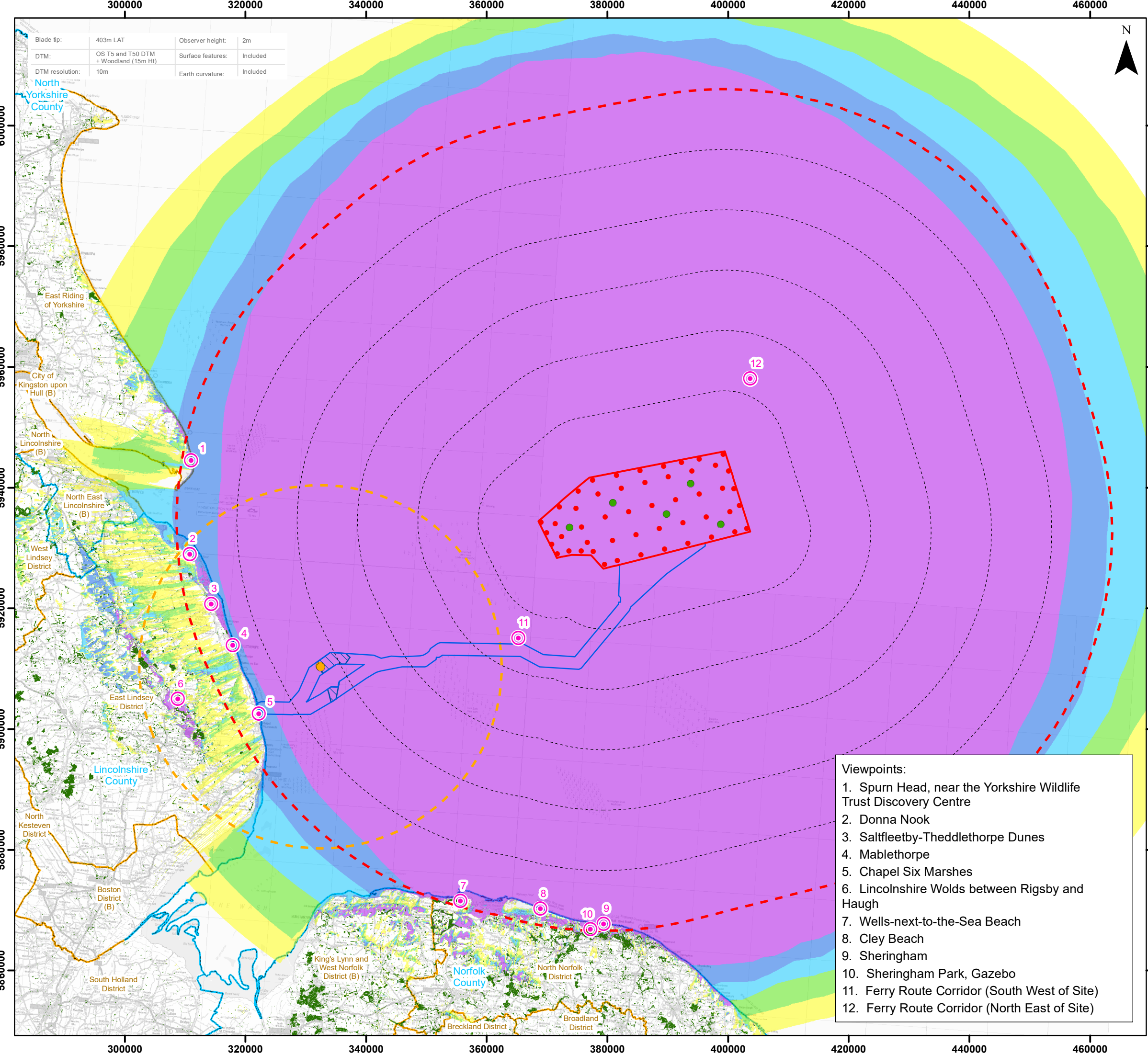
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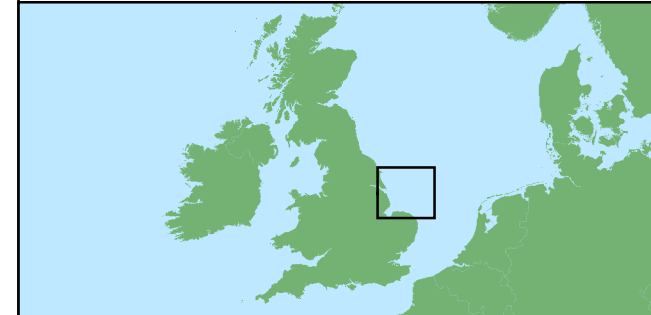
Legend

- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- ⊙ Viewpoints
- ▭ Array Area
- ▭ Offshore Export Cable Corridor (ECC)
- ▭ Offshore Reactive Compensation Platform (ORCP) Area
- ⋯ 10km Radii
- ⋯ 60km Study
- ⋯ Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- ▭ County Boundary
- ▭ District / Unitary Authority Boundary
- Woodland

Screening Blade Tip ZTV

No of Blade Tips Theoretically Visible

- 1 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50



Coordinate System: WGS 1984 UTM Zone 31N

0 5 10 15 20 km

Scale: 1:600,000

A3 Page Size

- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

Environmental Statement

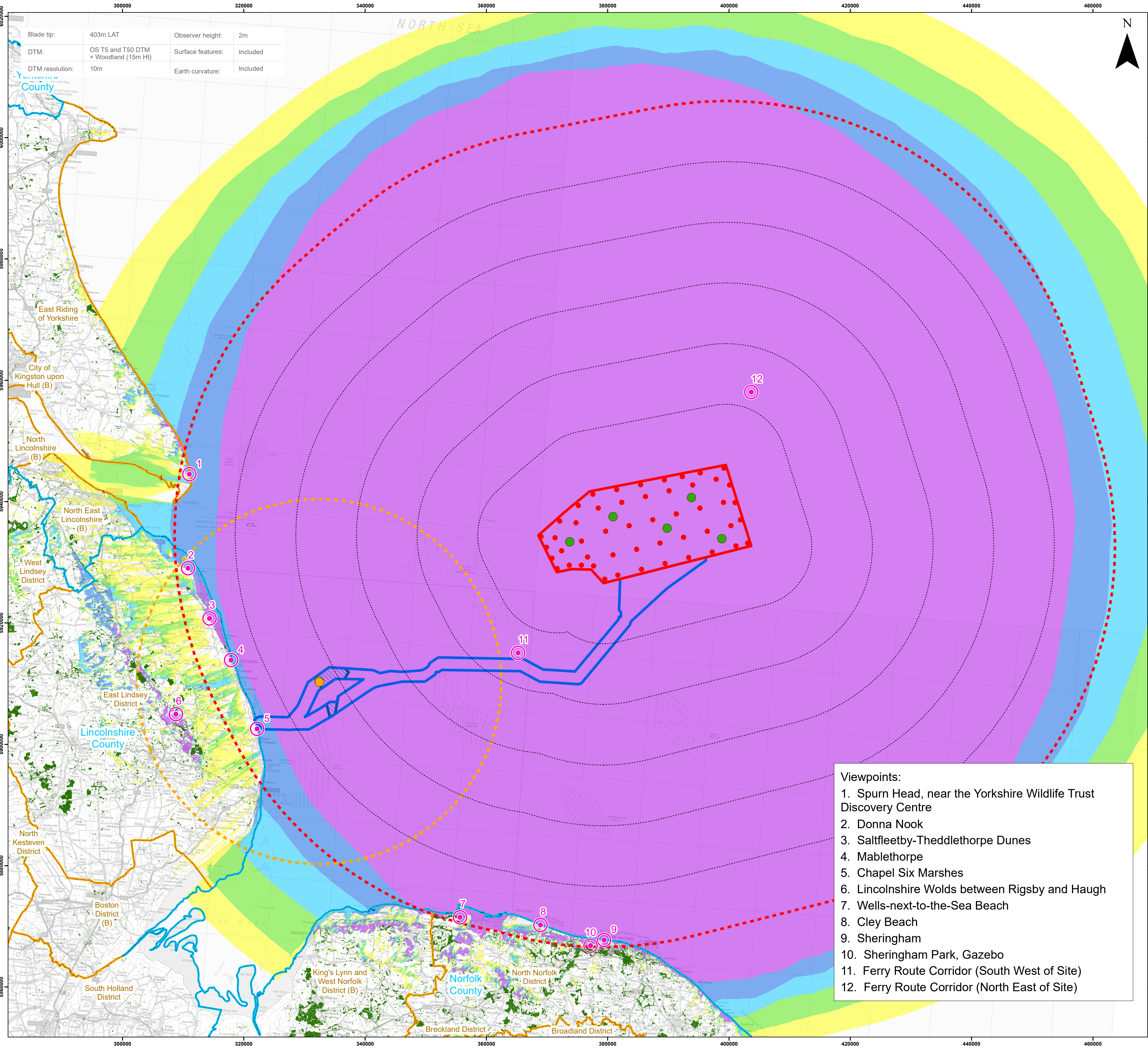
Array Area Blade Tip ZTV with Surface Feature Screening (A3)

Figure 17.5

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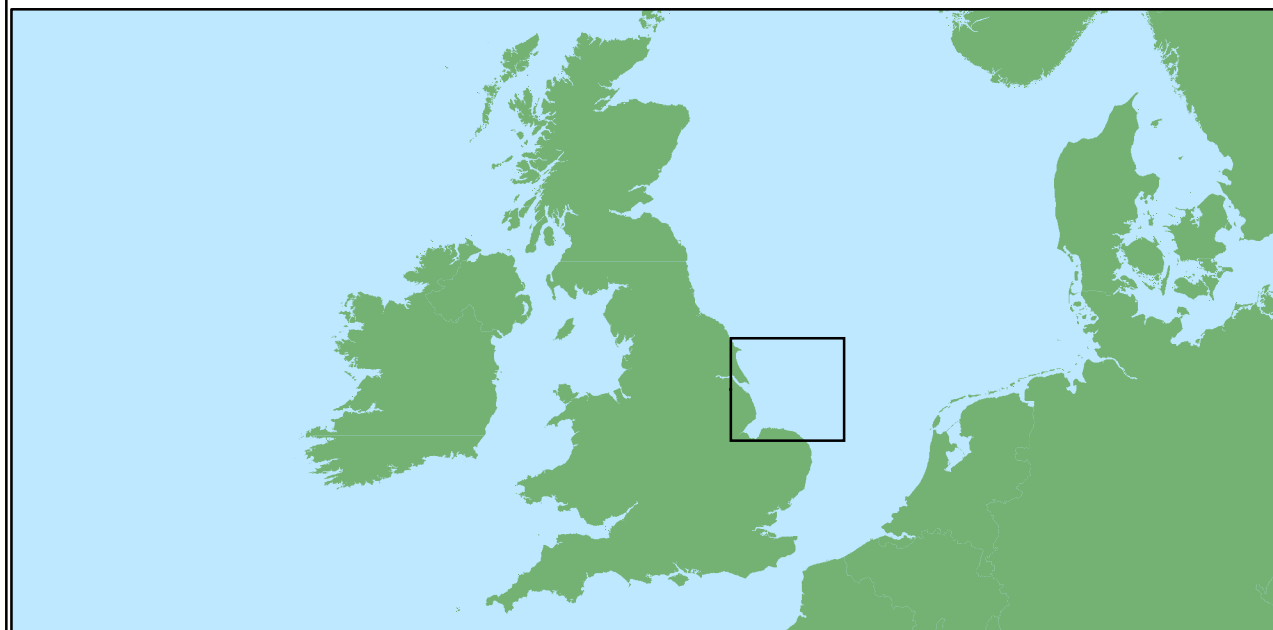
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DTM:	OS T5 and T50 DTM + Woodland (15m Ht)	Surface features:	Included
DTM resolution:	10m	Earth curvature:	Included



Legend

- ⊙ Viewpoints
 - Indicative Turbine Locations
 - Indicative Offshore Platforms
 - Indicative Offshore Reactive Compensation Platform (ORCP)
 - Array Area
 - Offshore Export Cable Corridor (ECC)
 - Offshore Reactive Compensation Platform (ORCP) Area
 - 10km Radii
 - 60km Study Area
 - Offshore Reactive Compensation Platform (ORCP) 30km Study Area
 - County Boundary
 - District / Unitary Authority Boundary
 - Woodland
- Screening Blade Tip ZTV
- No of Blade Tips Theoretically Visible
- 1 - 10
 - 11 - 20
 - 21 - 30
 - 31 - 40
 - 41 - 50

- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)



Coordinate System: WGS 1984 UTM Zone 31N

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Scale: 1:300,000

A1 Page Size

Environmental Statement

Array Area Blade Tip ZTV with Surface Feature Screening (A1)

Figure 17.6

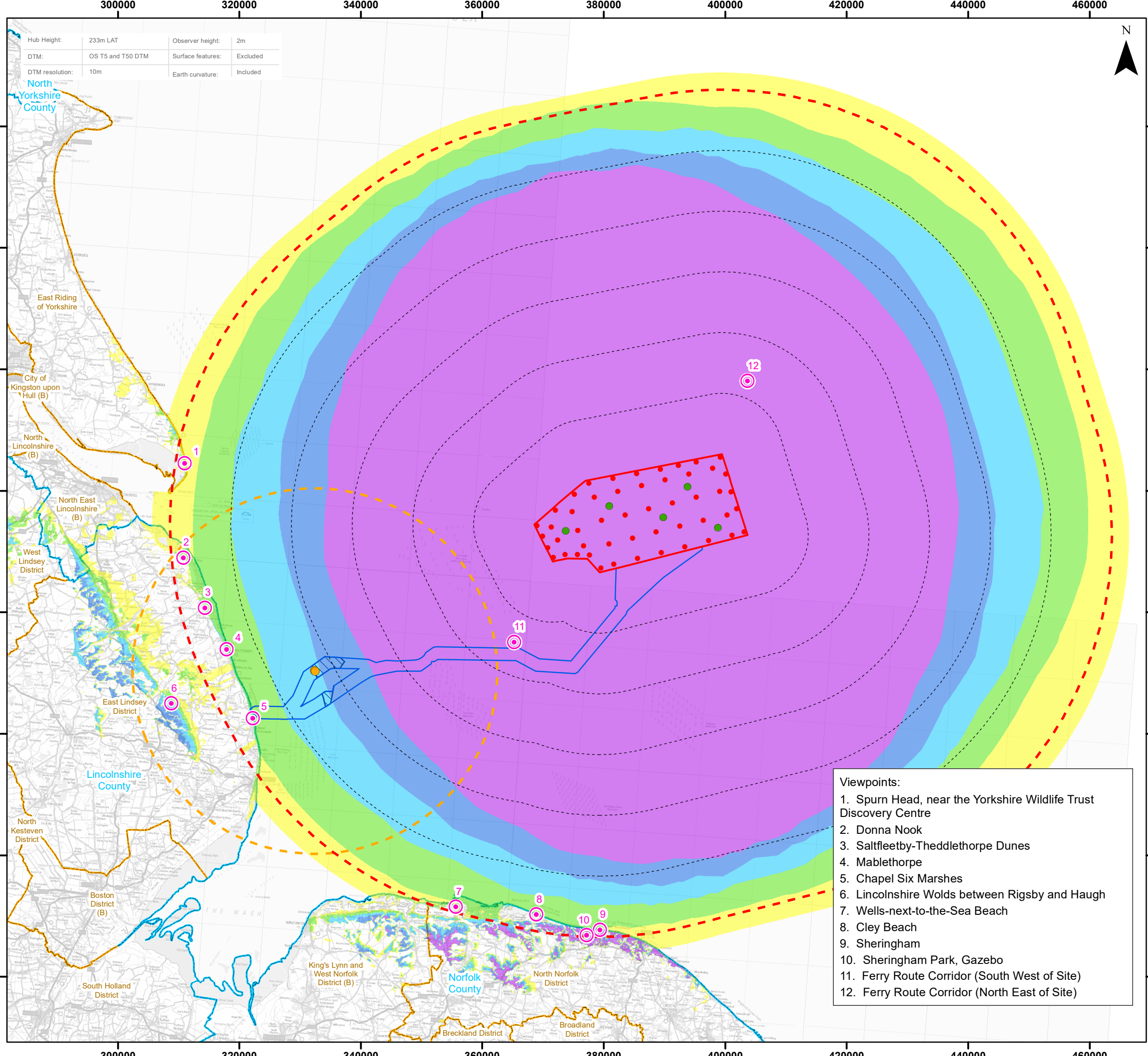


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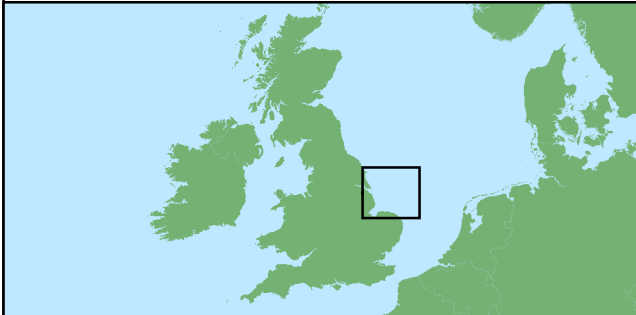
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DTM:	OS T5 and T50 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included



Legend

- ⊙ Viewpoints
 - Indicative Turbine Locations
 - Indicative Offshore Platforms
 - Indicative Offshore Reactive Compensation Platform (ORCP)
 - Array Area
 - Offshore Export Cable Corridor (ECC)
 - Offshore Reactive Compensation Platform (ORCP) Area
 - 10km Radii
 - 60km Study
 - Offshore Reactive Compensation Platform (ORCP) 30km Study Area
 - County Boundary
 - District / Unitary Authority Boundary
- Hub Height ZTV**
- No of Hubs Theoretically Visible**
- 1 - 10
 - 11 - 20
 - 21 - 30
 - 31 - 40
 - 41 - 50

- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)



Coordinate System: WGS 1984 UTM Zone 31N

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Scale: 1:600,000

A3 Page Size

Environmental Statement

Array Area Hub Height ZTV (Maximum Hub Height) (A3)

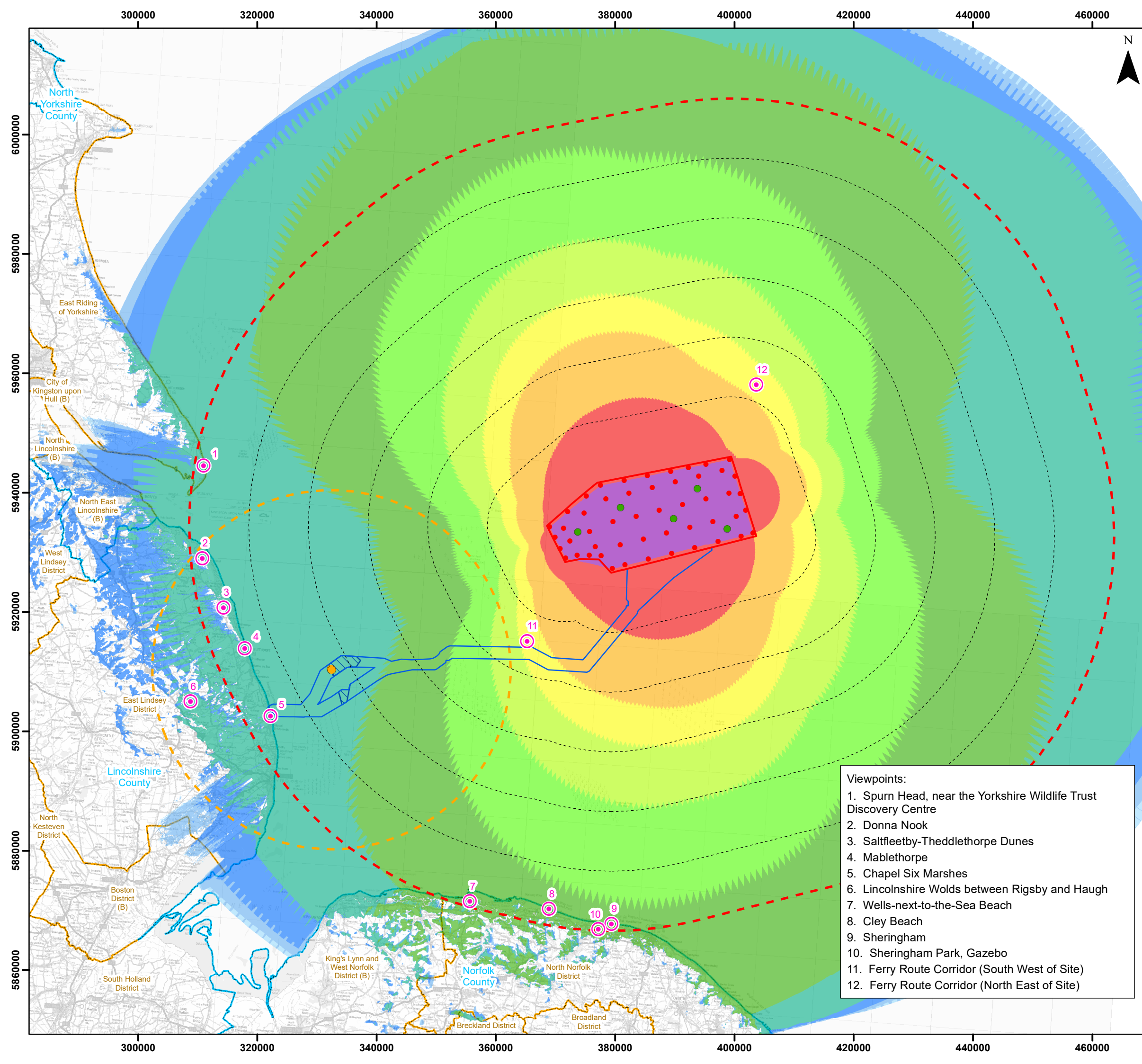
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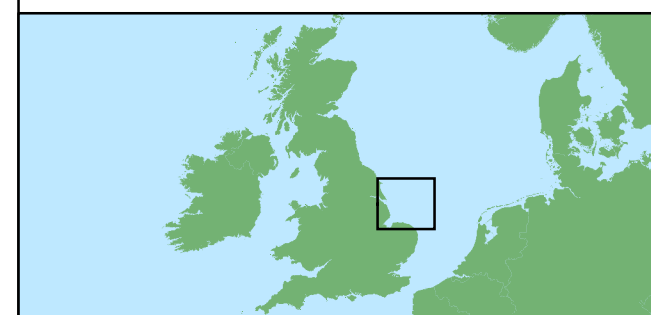


Legend

- Viewpoints
- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- County Boundary
- District / Unitary Authority Boundary

HZTV (Angle in Degrees)

0
0 - 1
1 - 5
5 - 10
10 - 20
20 - 30
30 - 40
40 - 50
50 - 60
60 - 90
90 - 180
180 - 360



- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

Coordinate System: WGS 1984 UTM Zone 31N

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Scale: 1:600,000

A3 Page Size

Environmental Statement

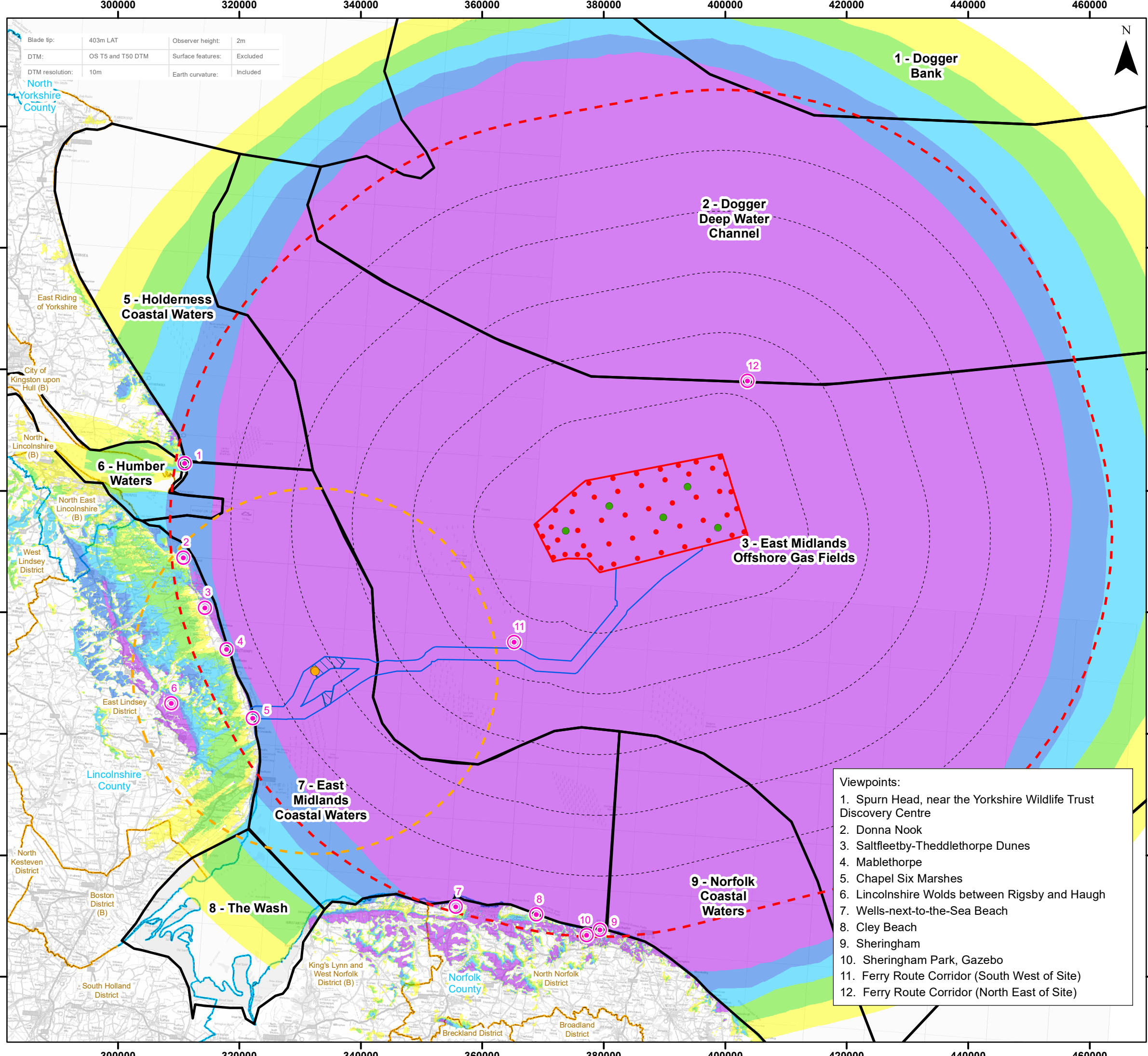
Array Area Horizontal Angle ZTV (Maximum Height) (A3)

Figure 17.8

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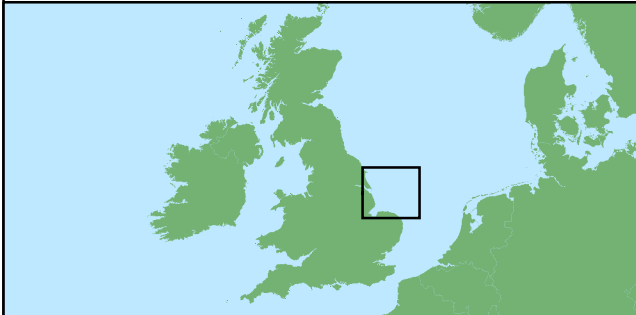
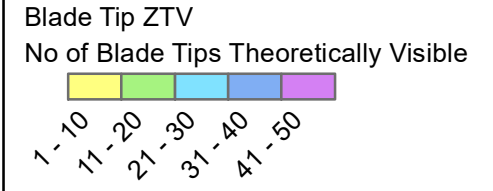
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Blade tip:	403m LAT	Observer height:	2m
DTM:	OS T5 and T50 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

Legend

- Viewpoints
- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- County Boundary
- District / Unitary Authority Boundary
- Seascape Character Area



Coordinate System: WGS 1984 UTM Zone 31N
0 5 10 15 20 km
Scale: 1:600,000
A3 Page Size

- Viewpoints:
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

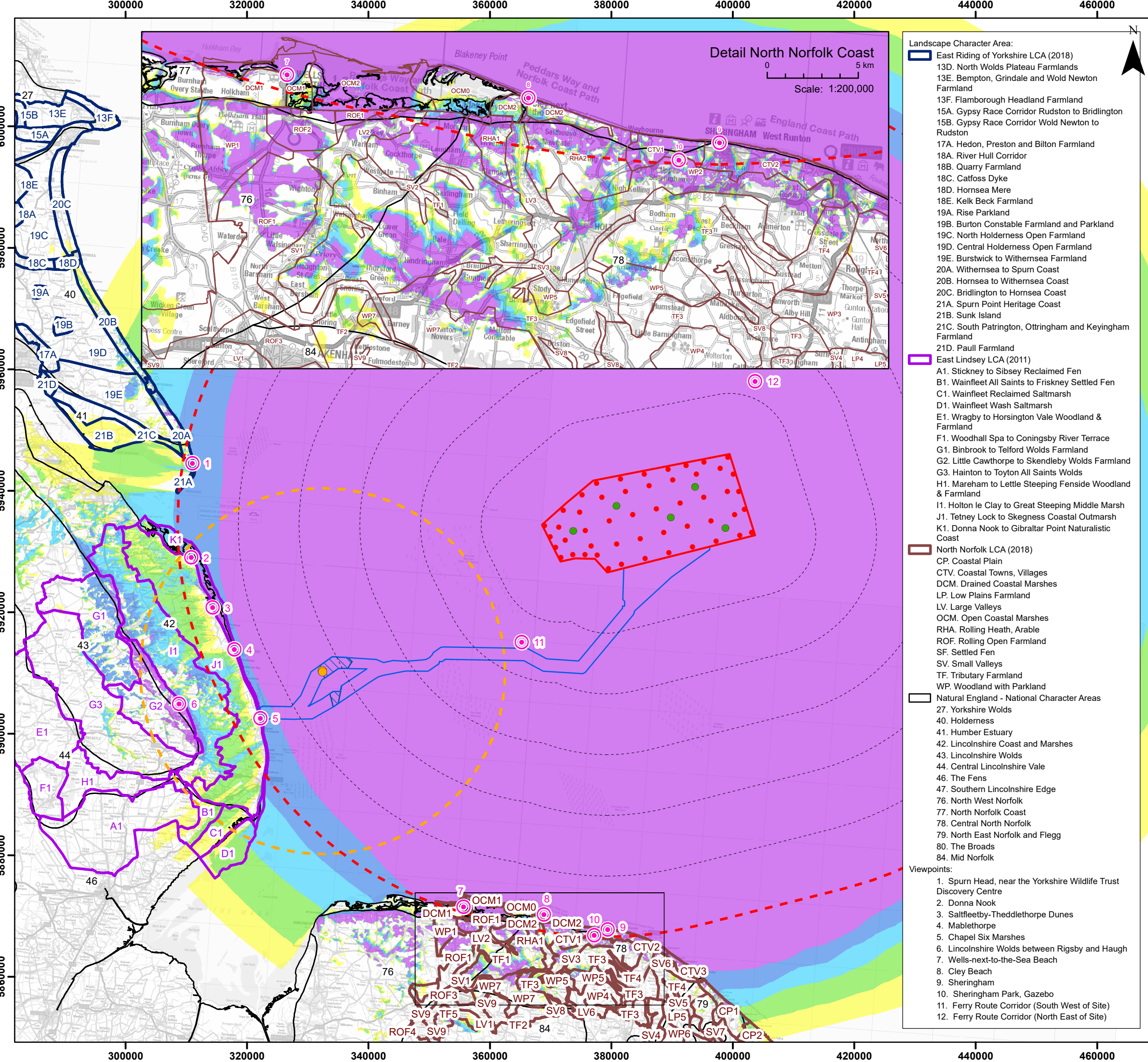
Environmental Statement
Array Area Blade Tip ZTV with Seascape Character)
Figure 17.9



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Revision: v0.4

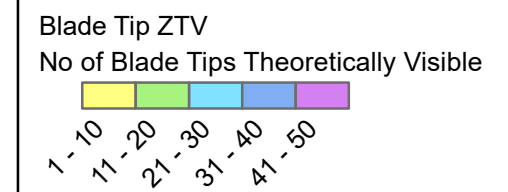
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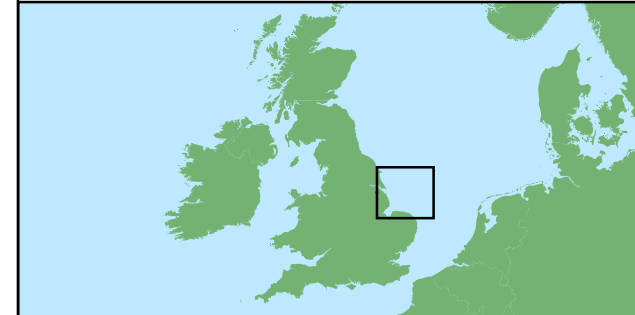


Legend

- Viewpoints
- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- Natural England - National Character Areas
- East Riding of Yorkshire LCA (2018)
- East Lindsey LCA (2011)
- North Norfolk LCA (2018)



Blade tip:	403m LAT	Observer height:	2m
DTM:	OS T5 and T50 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included



Coordinate System: WGS 1984 UTM Zone 31N

0 5 10 15 20 km

Scale: 1:600,000

A3 Page Size

Environmental Statement

Array Area Blade Tip ZTV with Landscape Character

Figure 17.10 V2.0 for issue



Date: 30/05/2024
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 Revision: v0.2

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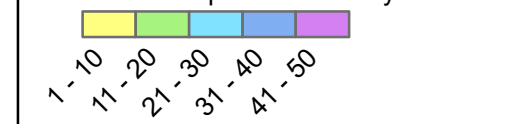
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Legend

- Viewpoints
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- Natural England - National Character Areas
- North Norfolk LCA (2018)

Blade Tip ZTV



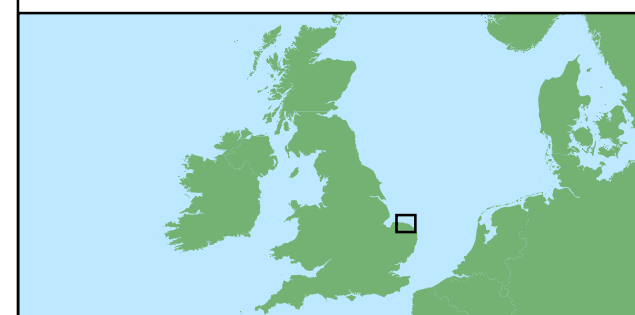
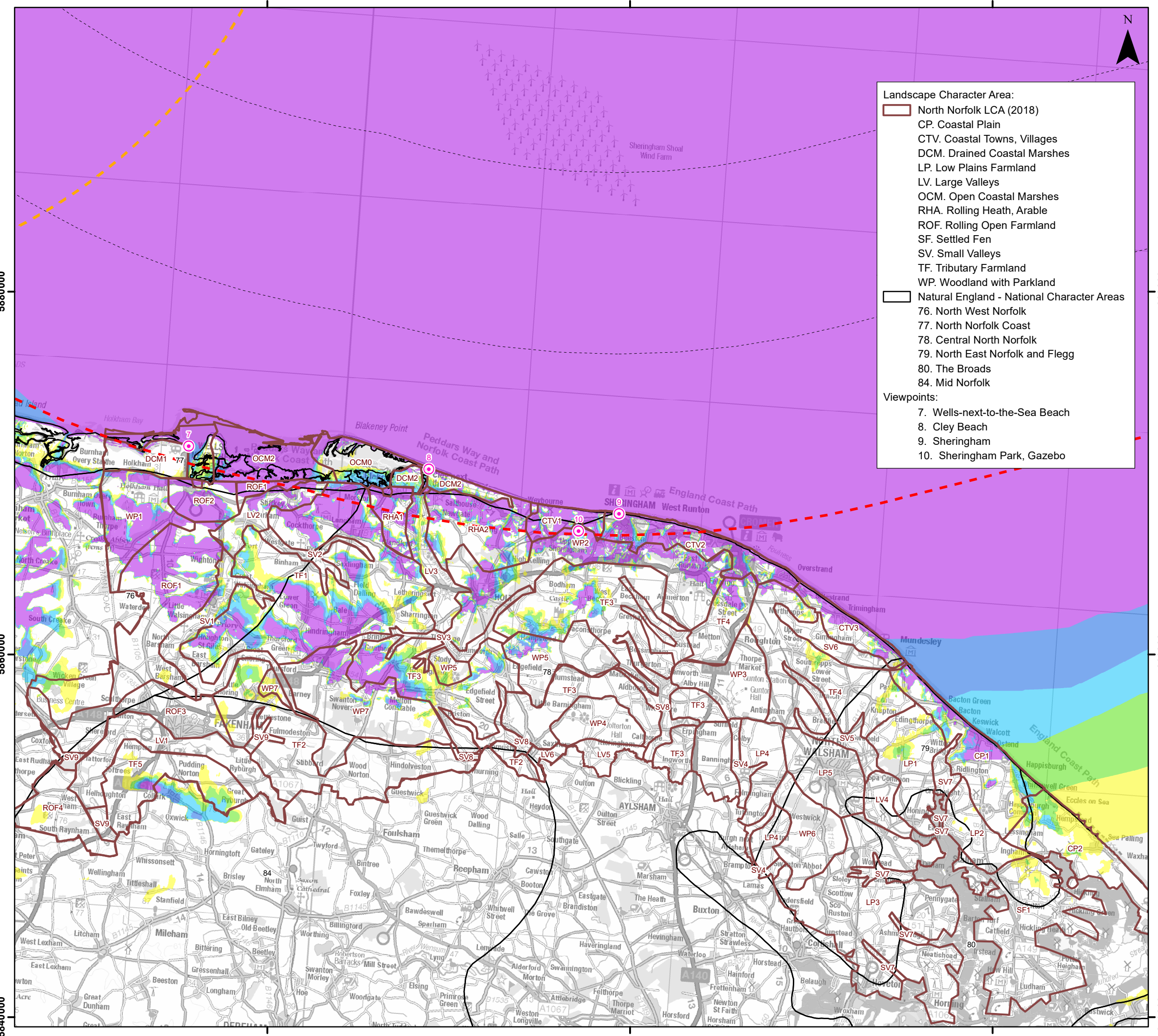
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DTM:	OS T5 and T50 DTM	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

Landscape Character Area:

- North Norfolk LCA (2018)
- CP. Coastal Plain
- CTV. Coastal Towns, Villages
- DCM. Drained Coastal Marshes
- LP. Low Plains Farmland
- LV. Large Valleys
- OCM. Open Coastal Marshes
- RHA. Rolling Heath, Arable
- ROF. Rolling Open Farmland
- SF. Settled Fen
- SV. Small Valleys
- TF. Tributary Farmland
- WP. Woodland with Parkland
- Natural England - National Character Areas
- 76. North West Norfolk
- 77. North Norfolk Coast
- 78. Central North Norfolk
- 79. North East Norfolk and Flegg
- 80. The Broads
- 84. Mid Norfolk

Viewpoints:

- 7. Wells-next-to-the-Sea Beach
- 8. Cley Beach
- 9. Sheringham
- 10. Sheringham Park, Gazebo



Coordinate System: WGS 1984 UTM Zone 31N

0 5 km

Scale: 1:200,000

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Environmental Statement

Array Area Blade Tip ZTV with Landscape Character

Figure 17.10a V2.0 for issue



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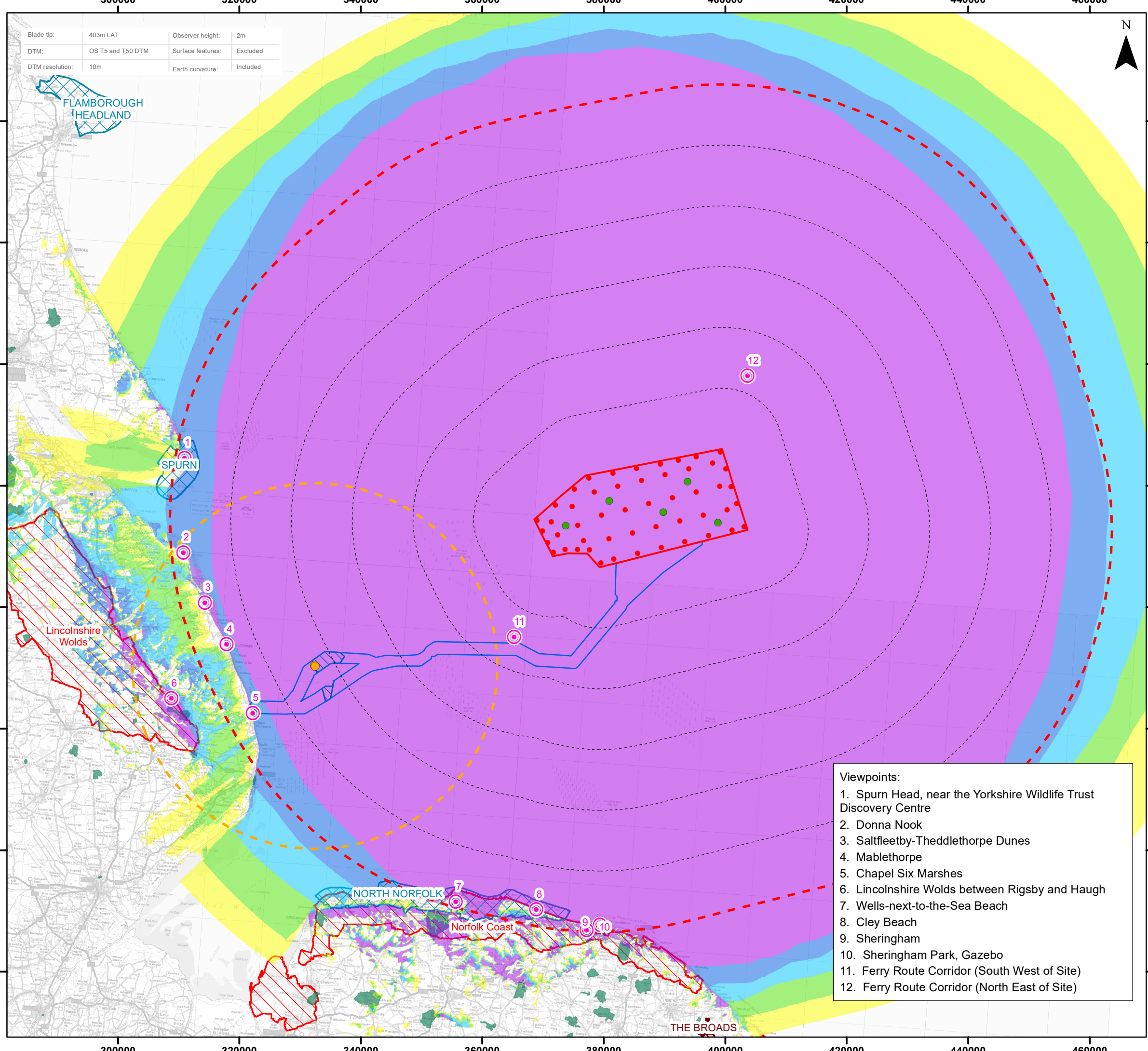
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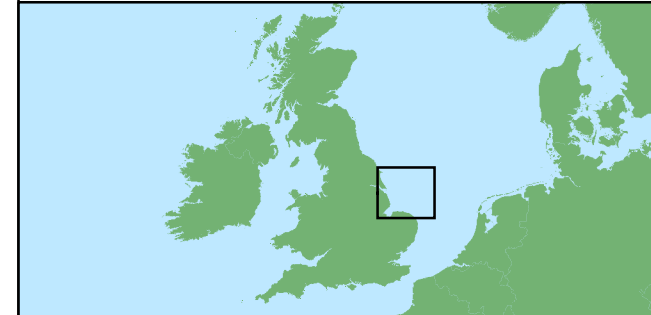
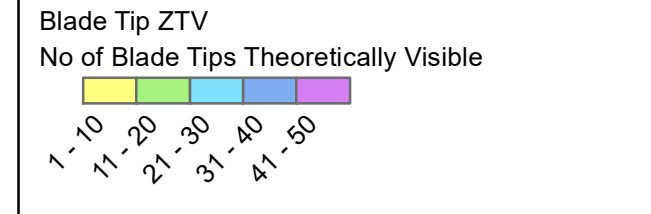
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Legend

- Viewpoints
- Indicative Turbine Locations
- Indicative Offshore Platforms
- Indicative Offshore Reactive Compensation Platform (ORCP)
- Array Area
- Offshore Export Cable Corridor (ECC)
- Offshore Reactive Compensation Platform (ORCP) Area
- 10km Radii
- 60km Study Area
- Offshore Reactive Compensation Platform (ORCP) 30km Study Area
- National Parks
- Heritage Coast
- Parks and Gardens
- Areas of Outstanding Natural Beauty



Coordinate System: WGS 1984 UTM Zone 31N
 0 5 10 15 20 km

 Scale: 1:600,000 A3 Page Size

- Viewpoints:
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

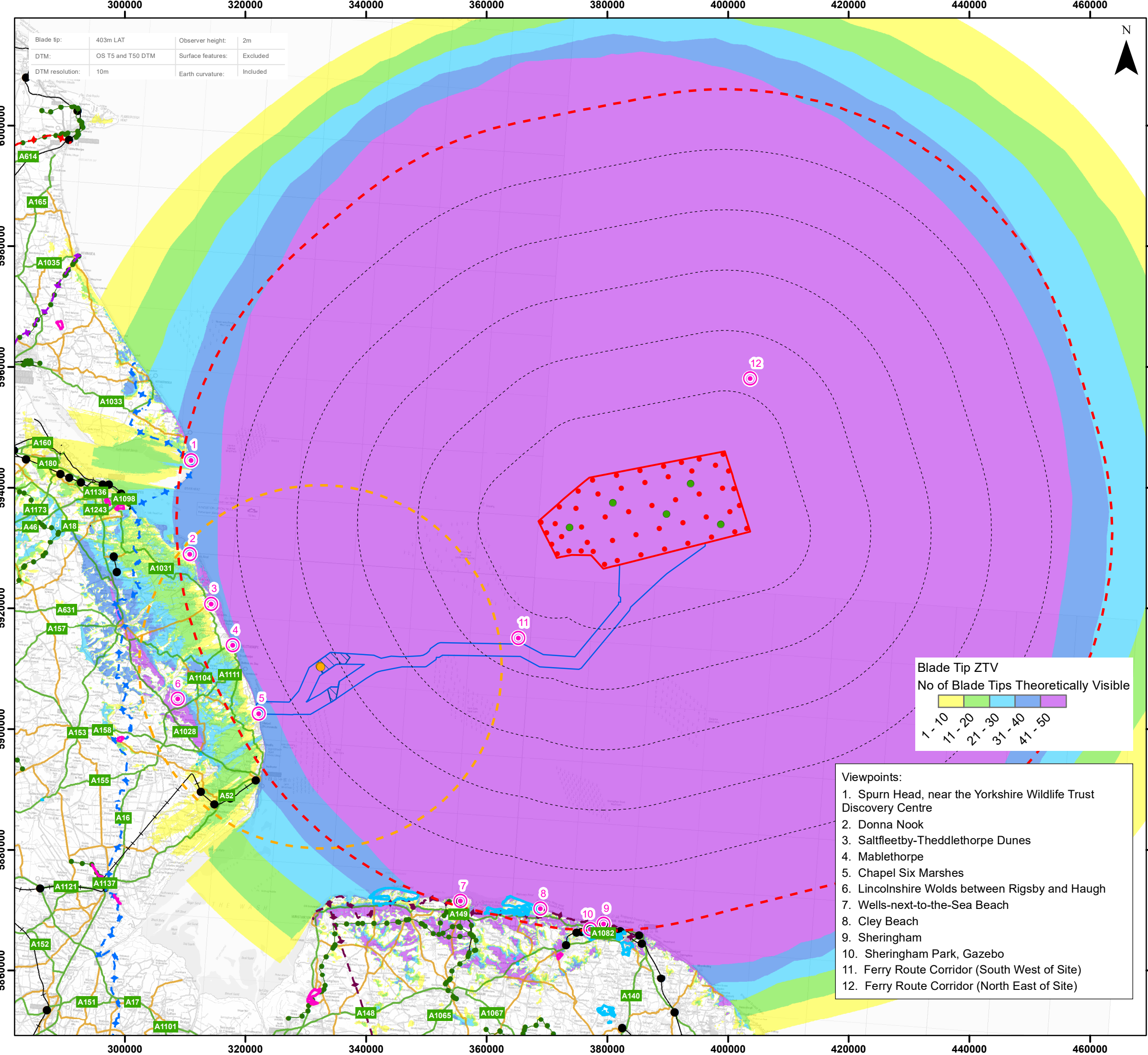
Environmental Statement
 Array Area Blade Tip ZTV
 with Landscape Designations
 Figure 17.11

Date: 12/03/2024
 Produced By: OPEN
 Revision: v0.4

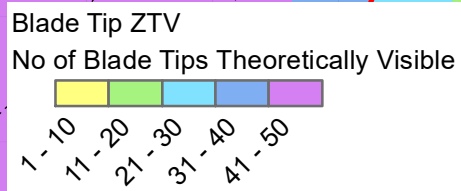
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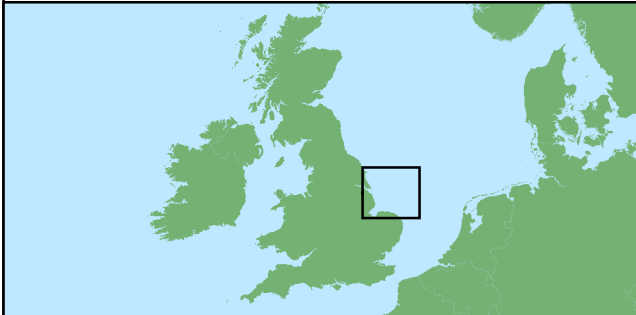


Blade tip: 403m LAT
 DTM: OS T5 and T50 DTM
 DTM resolution: 10m
 Observer height: 2m
 Surface features: Excluded
 Earth curvature: Included



- Viewpoints:**
1. Spurn Head, near the Yorkshire Wildlife Trust Discovery Centre
 2. Donna Nook
 3. Saltfleetby-Theddlethorpe Dunes
 4. Mablethorpe
 5. Chapel Six Marshes
 6. Lincolnshire Wolds between Rigsby and Haugh
 7. Wells-next-to-the-Sea Beach
 8. Cley Beach
 9. Sheringham
 10. Sheringham Park, Gazebo
 11. Ferry Route Corridor (South West of Site)
 12. Ferry Route Corridor (North East of Site)

- Legend**
- Viewpoints
 - Indicative Turbine Locations
 - Indicative Offshore Platforms
 - Indicative Offshore Reactive Compensation Platform (ORCP)
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 - Offshore Export Cable Corridor (ECC)
 - Offshore Reactive Compensation Platform (ORCP) Area
 - 10km Radii
 - 60km Study Area
 - Array Area
 - Offshore Export Cable Corridor (ECC)
 - Offshore Reactive Compensation Platform (ORCP) Area
 - Offshore Reactive Compensation Platform (ORCP) 30km Study Area
 - Country Parks
 - National Trust Estate
 - Long Distance Walks
 - Aerospace Way
 - Greenwich Meridian Trail
 - Peddars Way And Norfolk Coast Path
 - Trans Pennine Trail
 - National Cycle Network
 - Railway Station
 - Railway Track
 - A Road
 - B Road



Coordinate System: WGS 1984 UTM Zone 31N
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 Scale: 1:600,000
 A3 Page Size

Environmental Statement
 Array Area Blade Tip ZTV with Visual Receptors
 Figure 17.12



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