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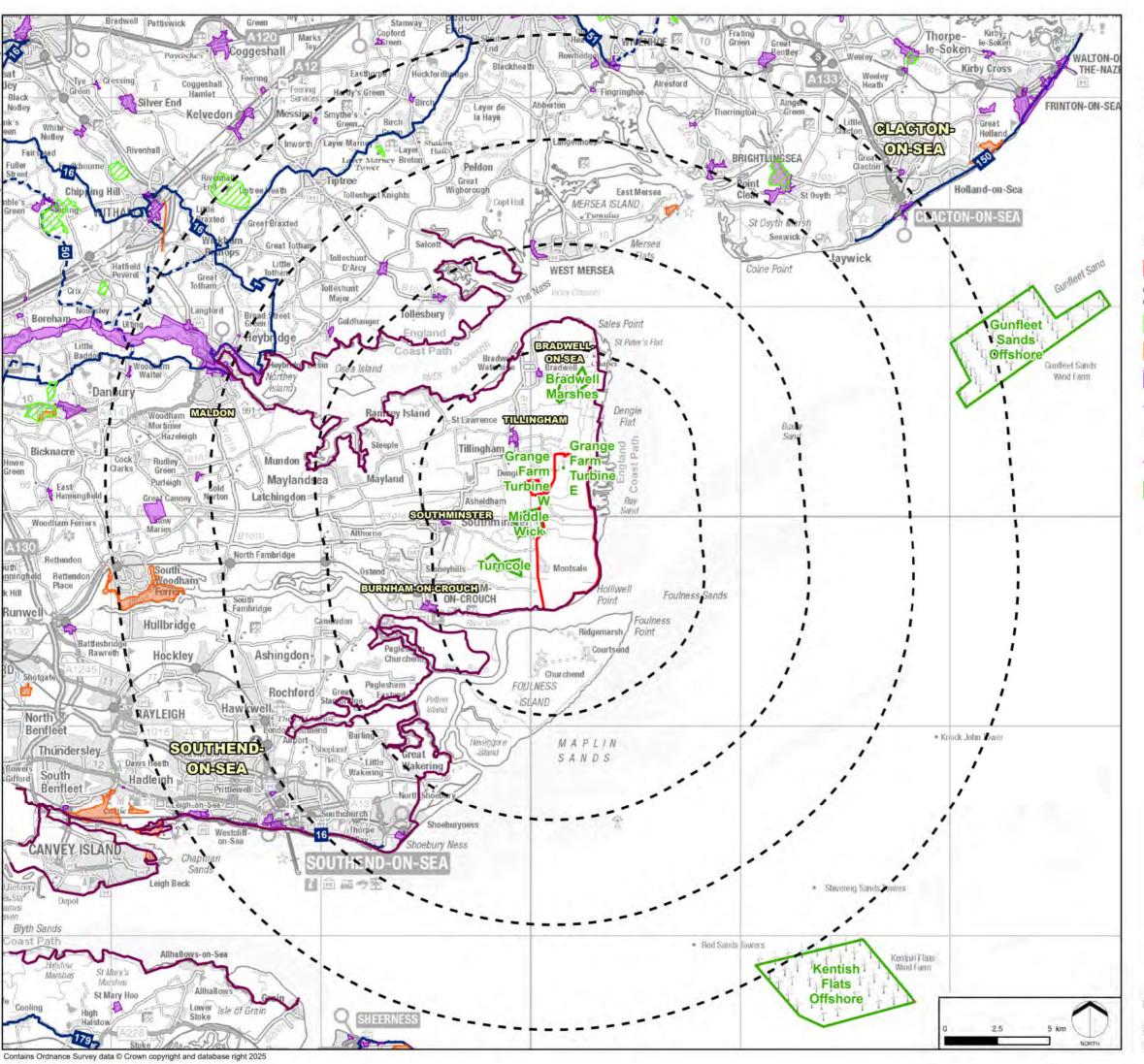




FIGURE 6.1

Landscape Context and Designations



rojected Coordinate System: British National Grid

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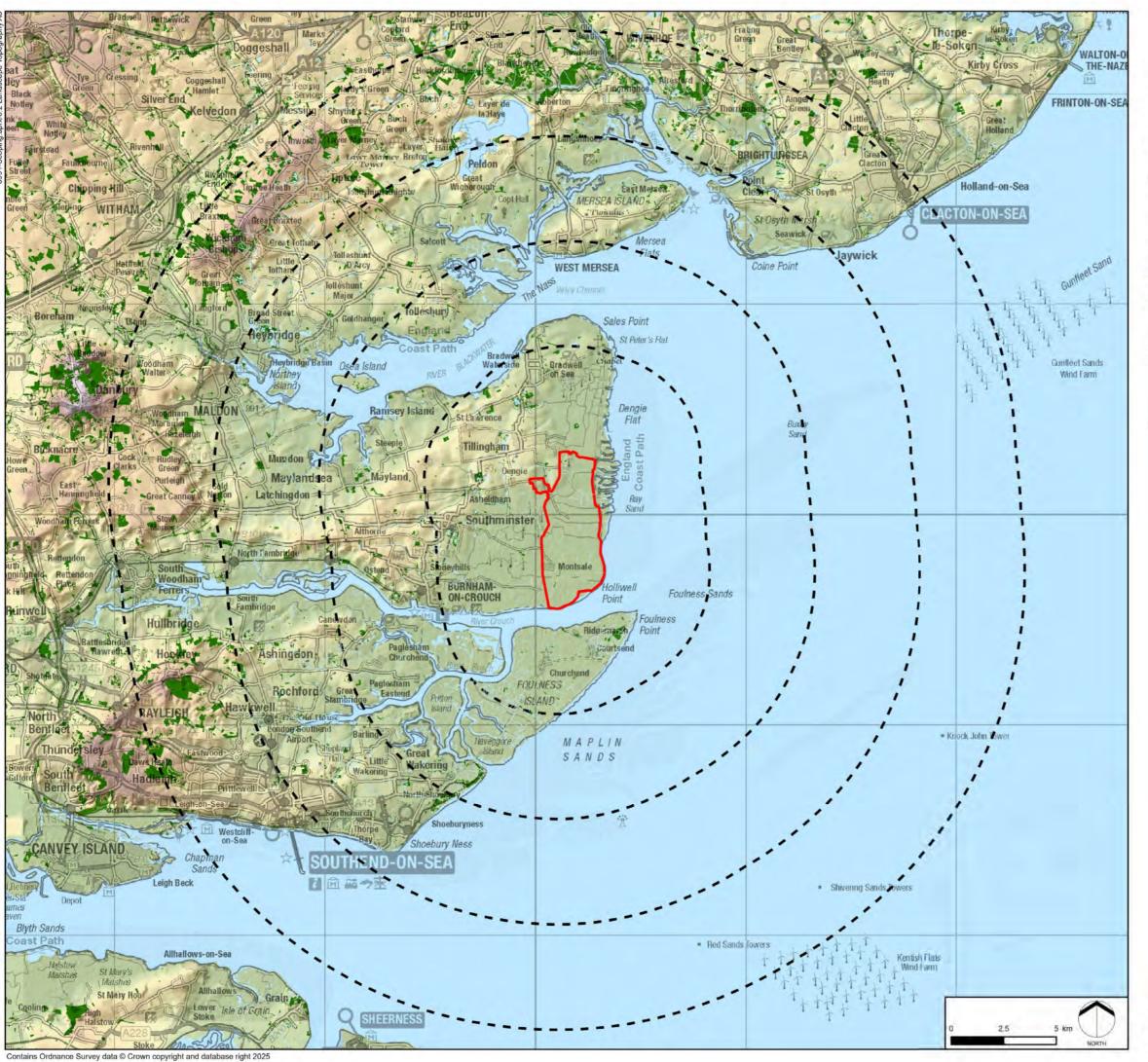
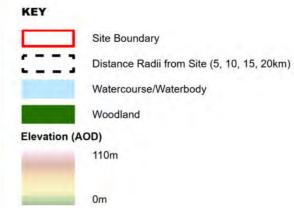




FIGURE 6.2

Landscape Topography



rojected Coordinate System: British National Grid

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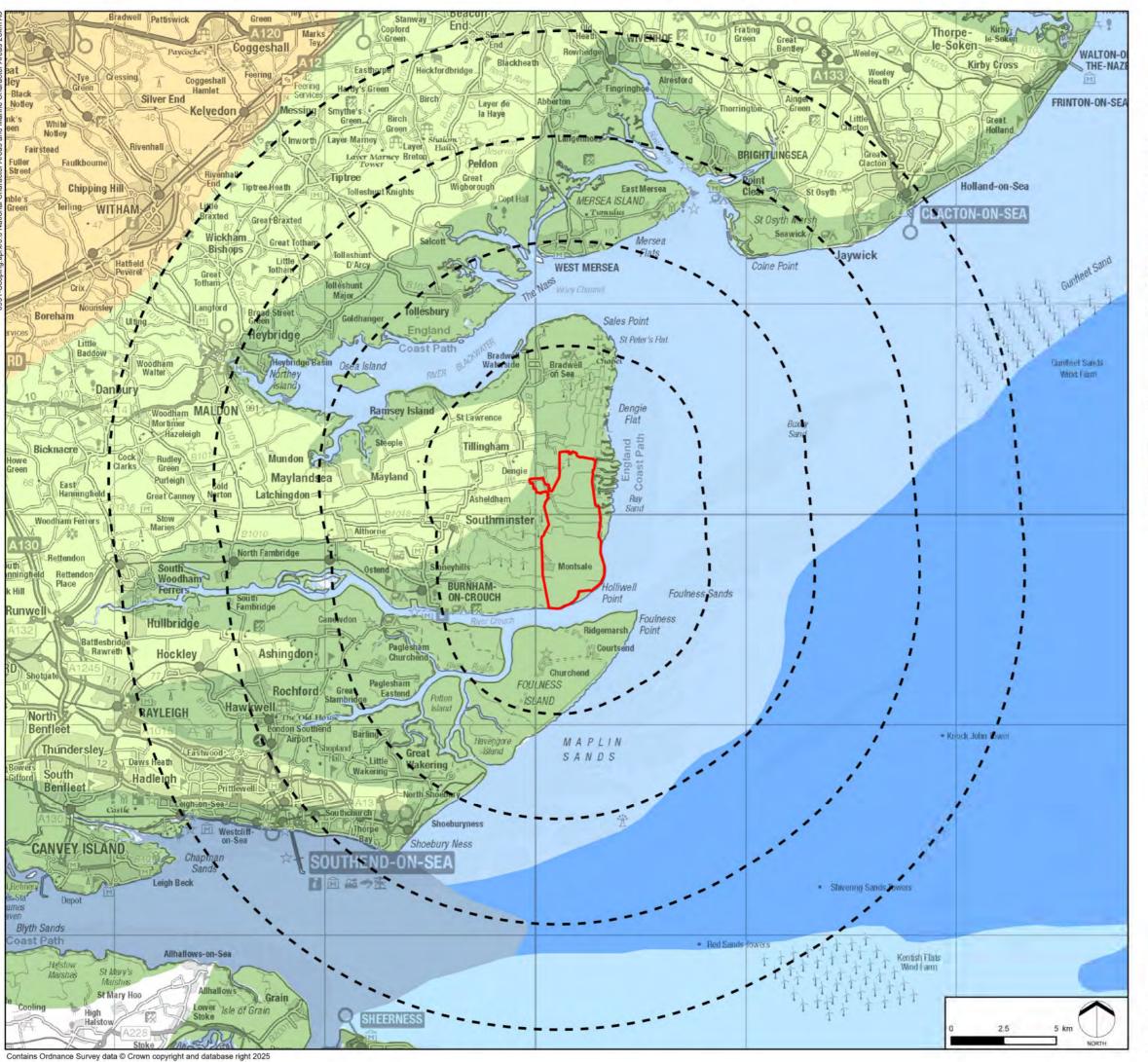




FIGURE 6.3

National Character Areas and Marine Character Areas

Site Boundary Distance Radii from Site (5, 10, 15, 20km) National Character Areas NCA 81: Greater Thames Estuary NCA 86: South Suffolk and North Essex Clayland NCA 111: Northern Thames Basin South East Marine Character Areas MCA 16: Swale, Kentish Flats and Margate Sand MCA 18: Thames and Medway Estuaries MCA 19: Essex and South Suffolk Estuaries and Coastal Waters

MCA 20: Thames Approaches

Projected Coordinate System: British National Grid

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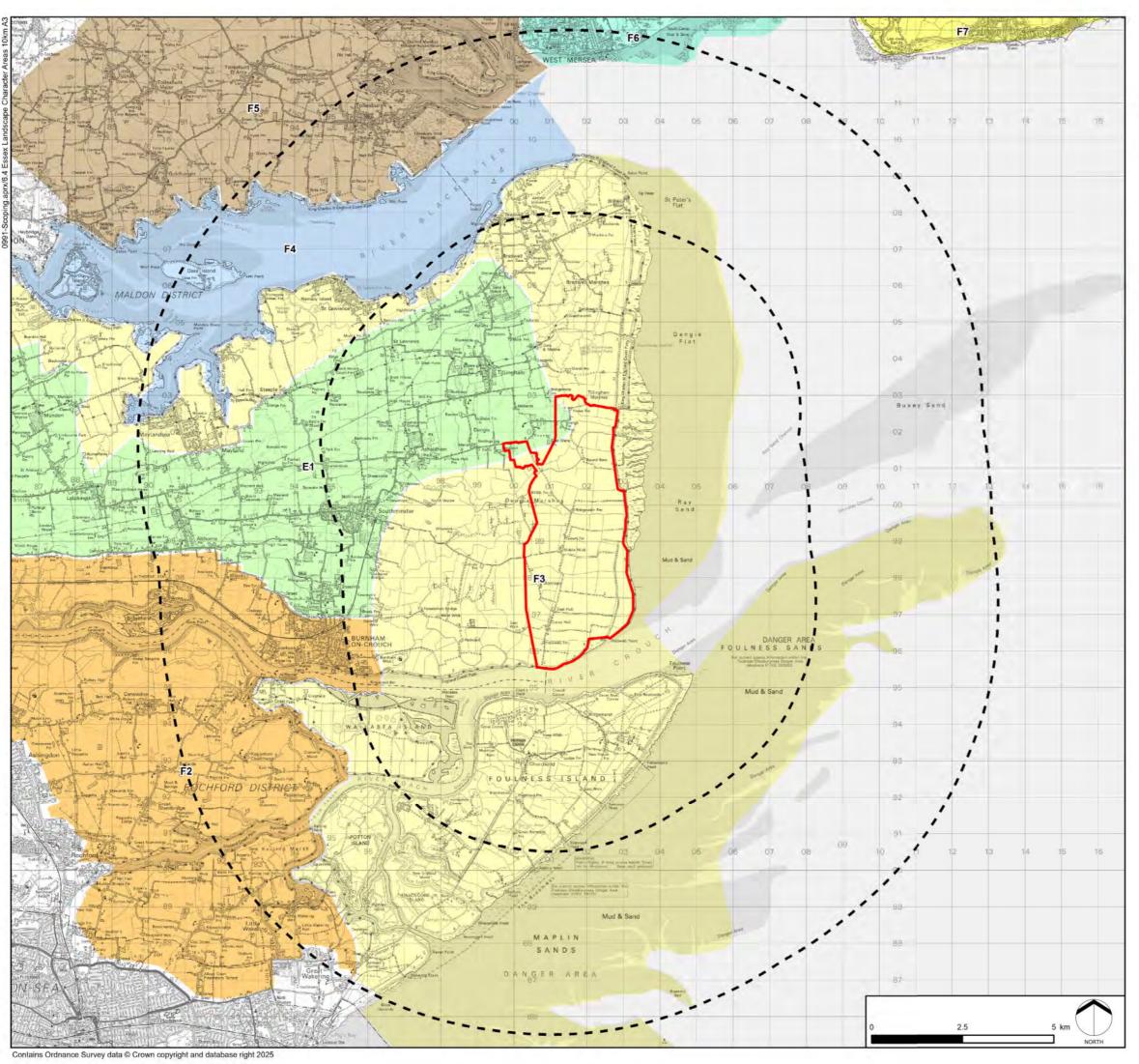
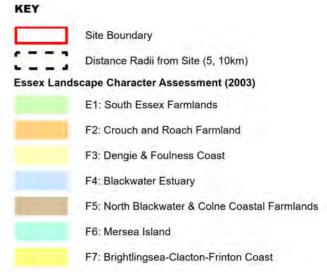




FIGURE 6.4

Essex County Landscape Character Areas



ojected Coordinate System: British National Grid

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CHK QA EF JI

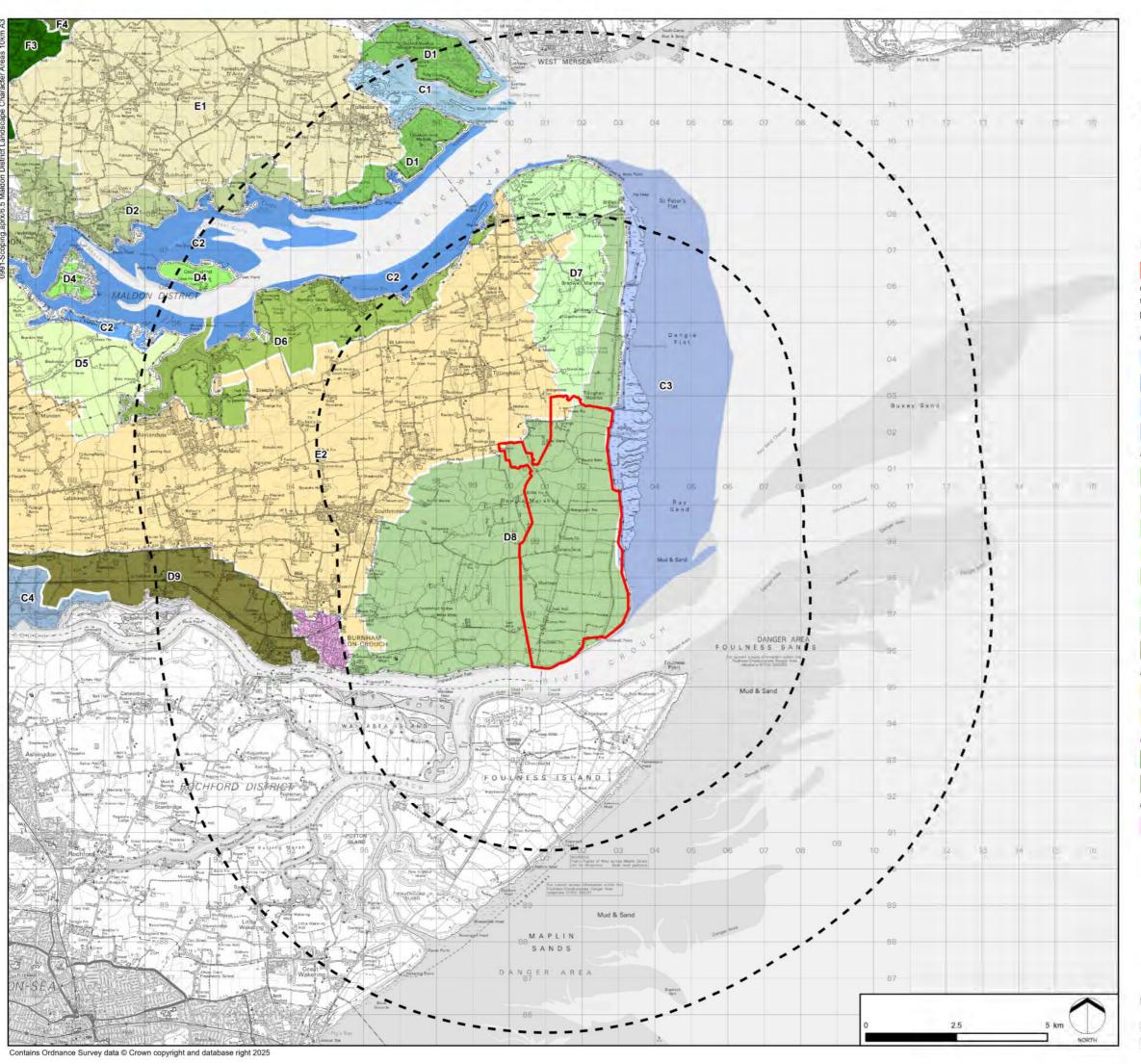




FIGURE 6.5

Maldon District Landscape Character Areas



Projected Coordinate System: British National Grid

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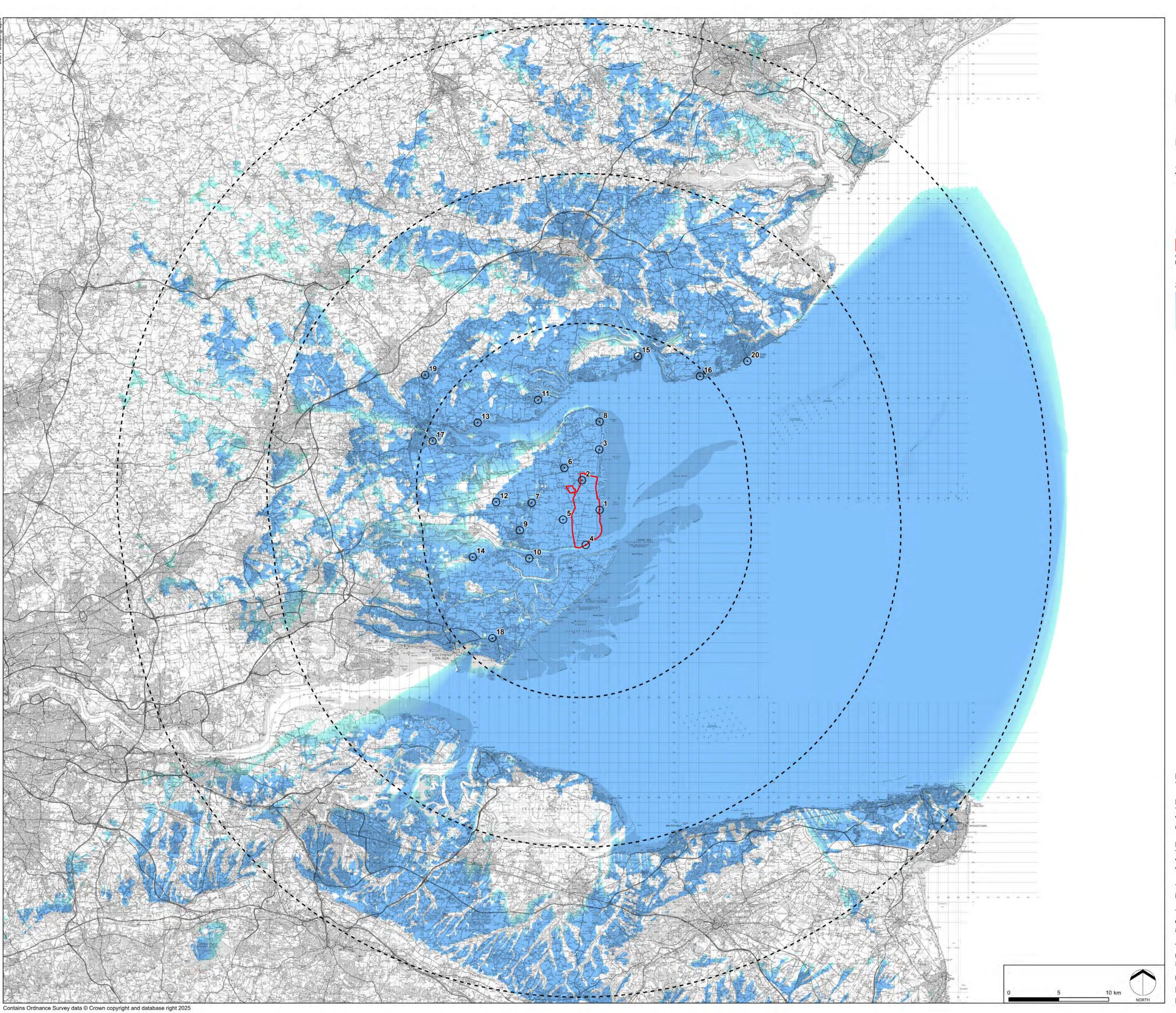




FIGURE 6.6

Zone of Theoretical Visibility - Hub Height (Bare Earth)

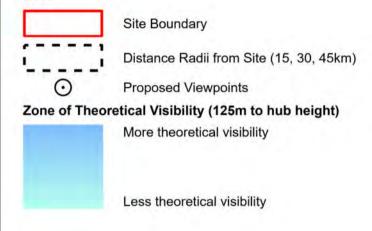


FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-HH-T5-35km.shp; D001-obsv-HH-T5-110km.shp Terrain data: T5-DTM.asc; T50-DTM.asc Viewer's eye height: 2m above ground level Calculation grid size: 5m (to 15km from turbines) / 50m (beyond)

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking topography into account.

This visibility map is based on a 'bare earth' model of the landform and does not show any effects of screening from obstacles such as buildings and vegetation.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a DTM and has a 5m^2 (to 15km from turbines) / 50m^2 (beyond) resolution.

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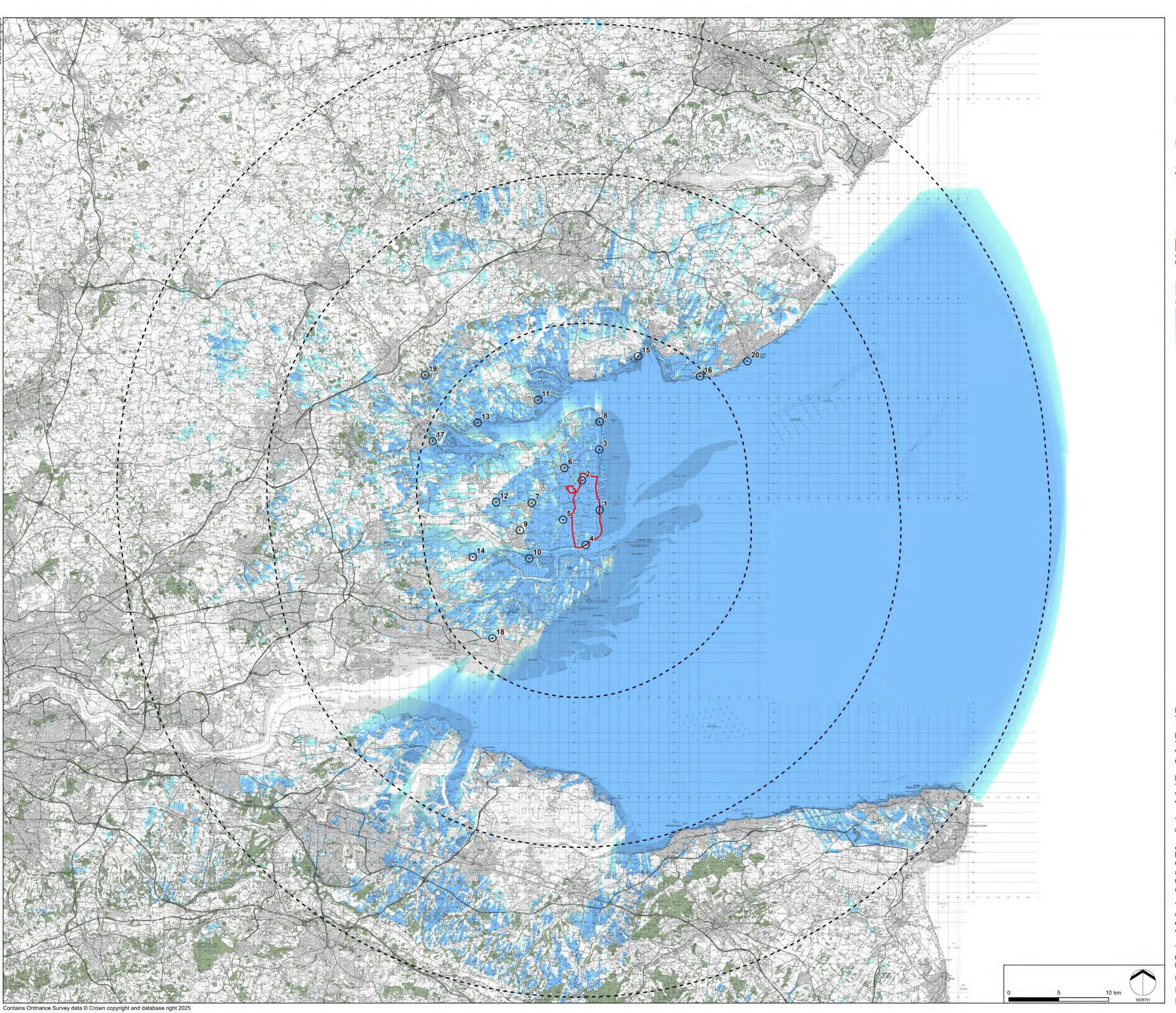




FIGURE 6.8

Zone of Theoretical Visibility - Hub Height (Screened)

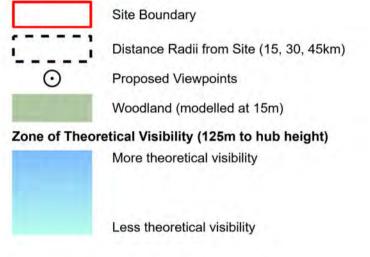


FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-HH-T5-35km.shp; D001-obsv-HH-T5-110km.shp Terrain data: T5-DSM.asc; T50-DSM.asc Viewer's eye height: 2m above ground level Calculation grid size: 5m (to 15km from turbines) / 50m (beyond)

NOTE

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 5 / 50 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area.

The model does not take into account some 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. It is based on a derived DSM and has a 5m² (to 15km from turbines) / 50m² (beyond) resolution.

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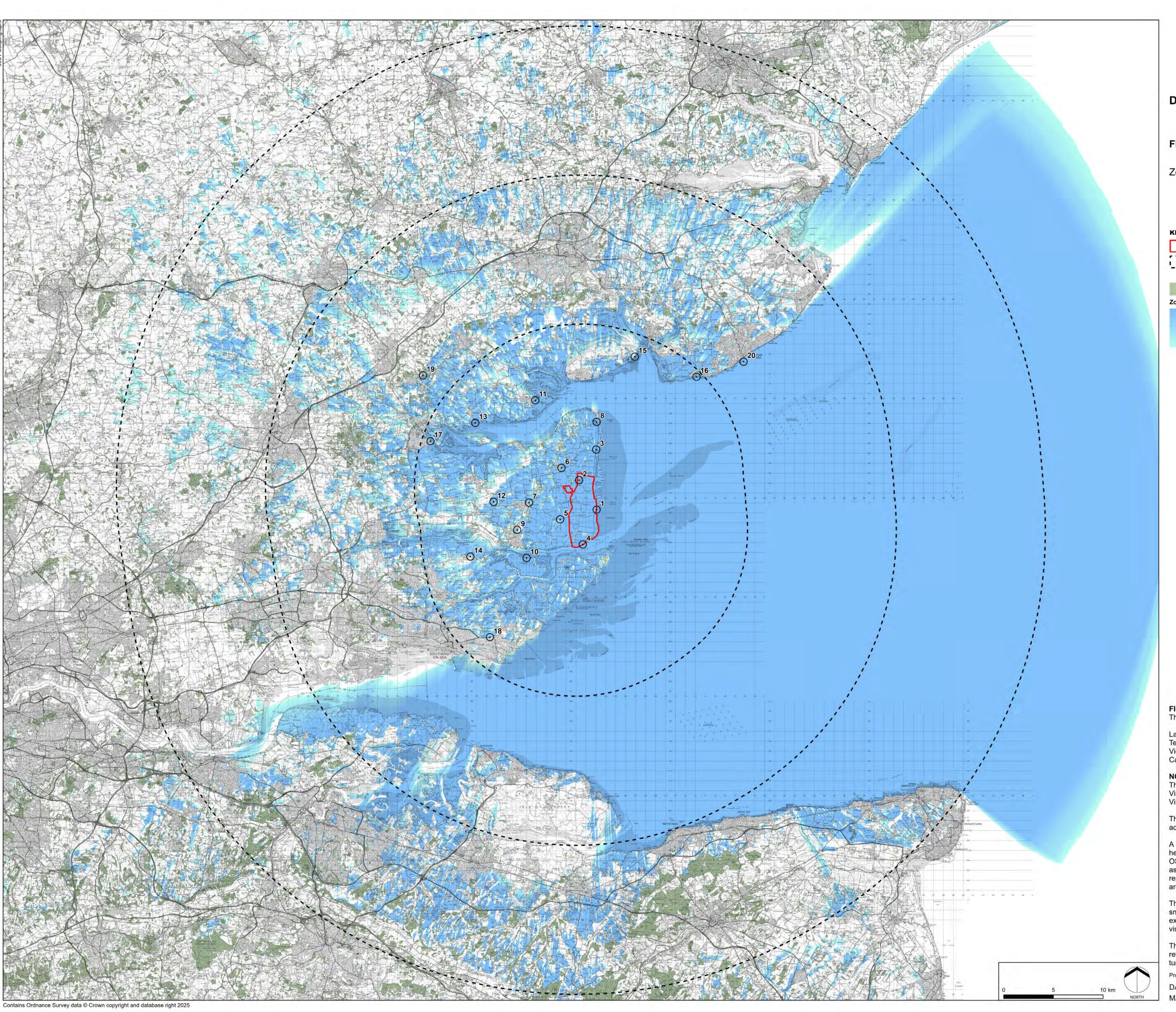




FIGURE 6.9

Zone of Theoretical Visibility - Blade Tip (Screened)

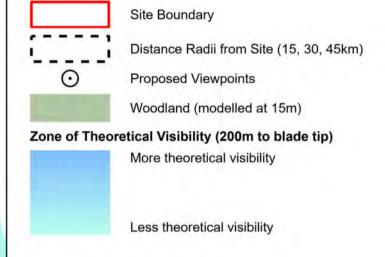


FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-BT-T5-35km.shp; D001-obsv-BT-T5-110km.shp Terrain data: T5-DSM.asc; T50-DSM.asc Viewer's eye height: 2m above ground level Calculation grid size: 5m (to 15km from turbines) / 50m (beyond)

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The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² (to 15km from turbines) / 50m² (beyond) resolution.

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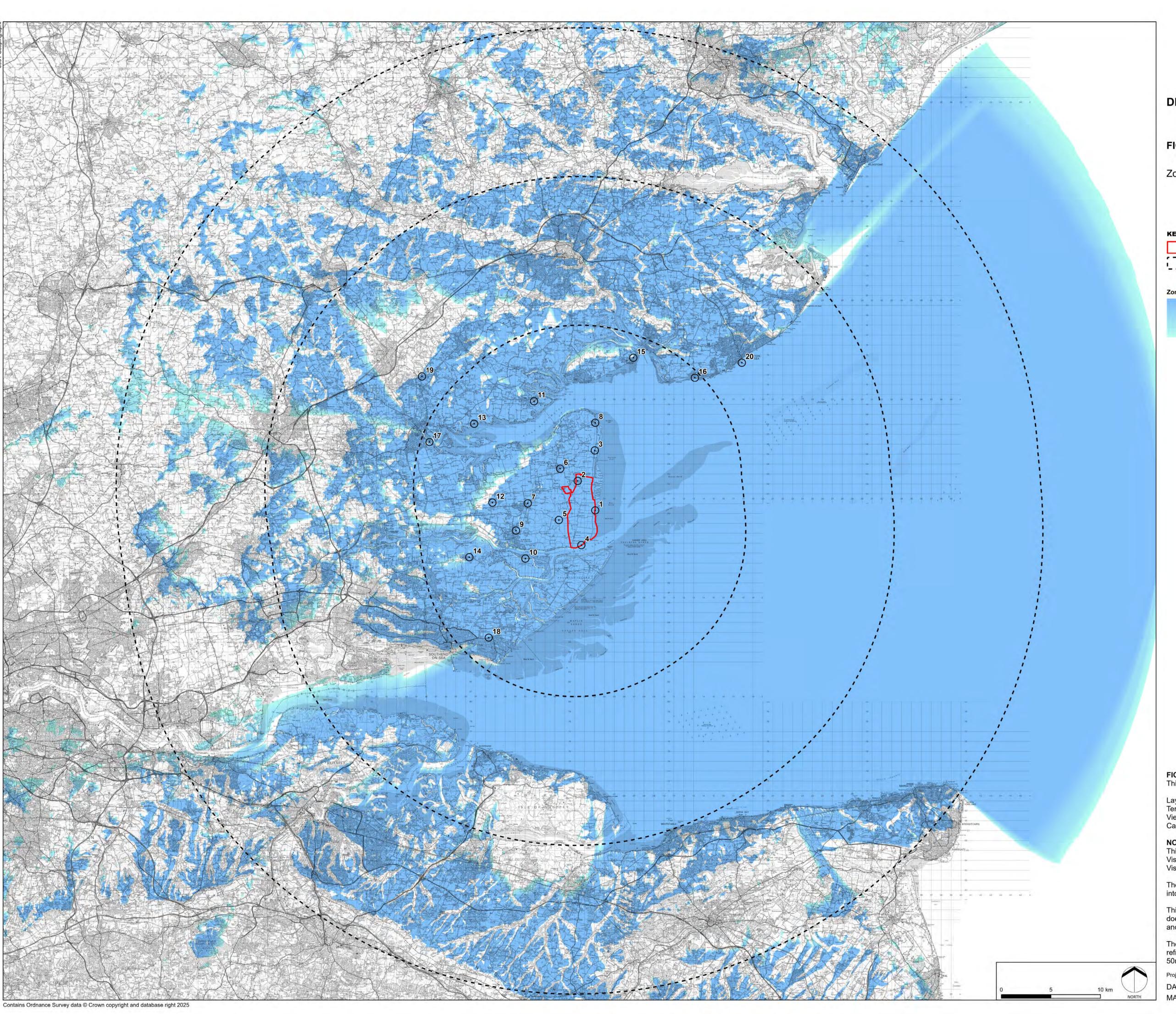




FIGURE 6.7

Zone of Theoretical Visibility - Blade Tip (Bare Earth)

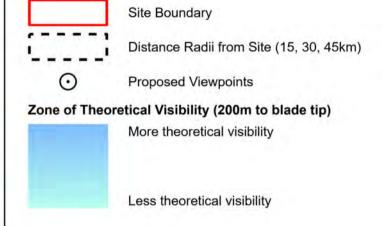


FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-BT-T5-35km.shp; D001-obsv-BT-T5-110km.shp Terrain data: T5-DTM.asc; T50-DTM.asc Viewer's eye height: 2m above ground level
Calculation grid size: 5m (to 15km from turbines) / 50m (beyond)

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking topography into account.

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The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a DTM and has a 5m² (to 15km from turbines) / 50m² (beyond) resolution.

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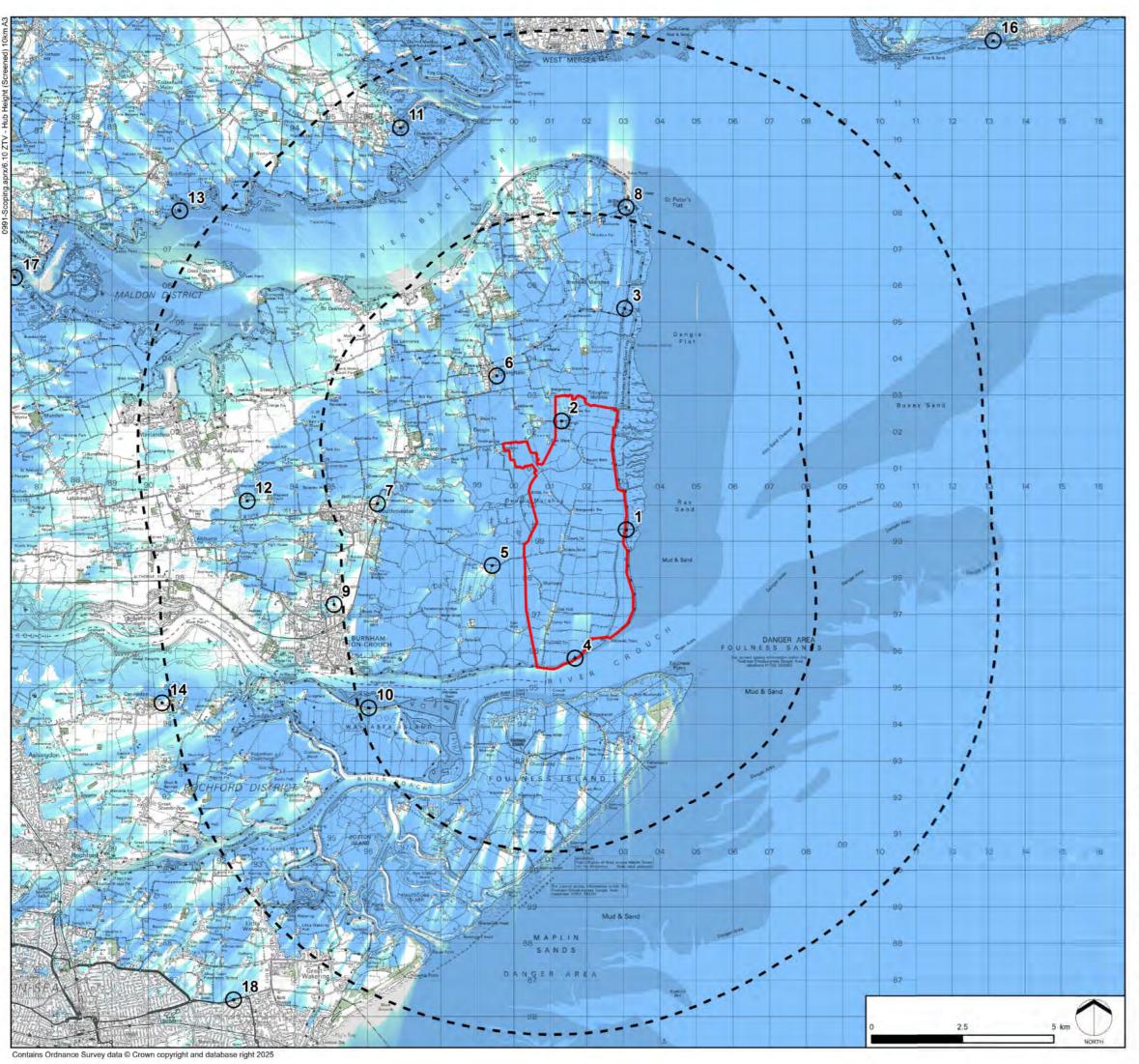




FIGURE 6.10

Zone of Theoretical Visibility - Hub Height (Screened)

KEY

Site Boundary

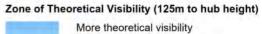
Distance Radii from Site (5, 10km)



Proposed Viewpoints



Woodland (modelled at 15m)





Less theoretical visibility

FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-HH-T5-35km.shp

Terrain data: T5-DSM.asc

Viewer's eye height: 2m above ground level

Calculation grid size: 5m

NOTES:

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study

The model does not take into account some 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. It is based on a derived DSM and has a 5m2 resolution.

Projected Coordinate System: British National Grid

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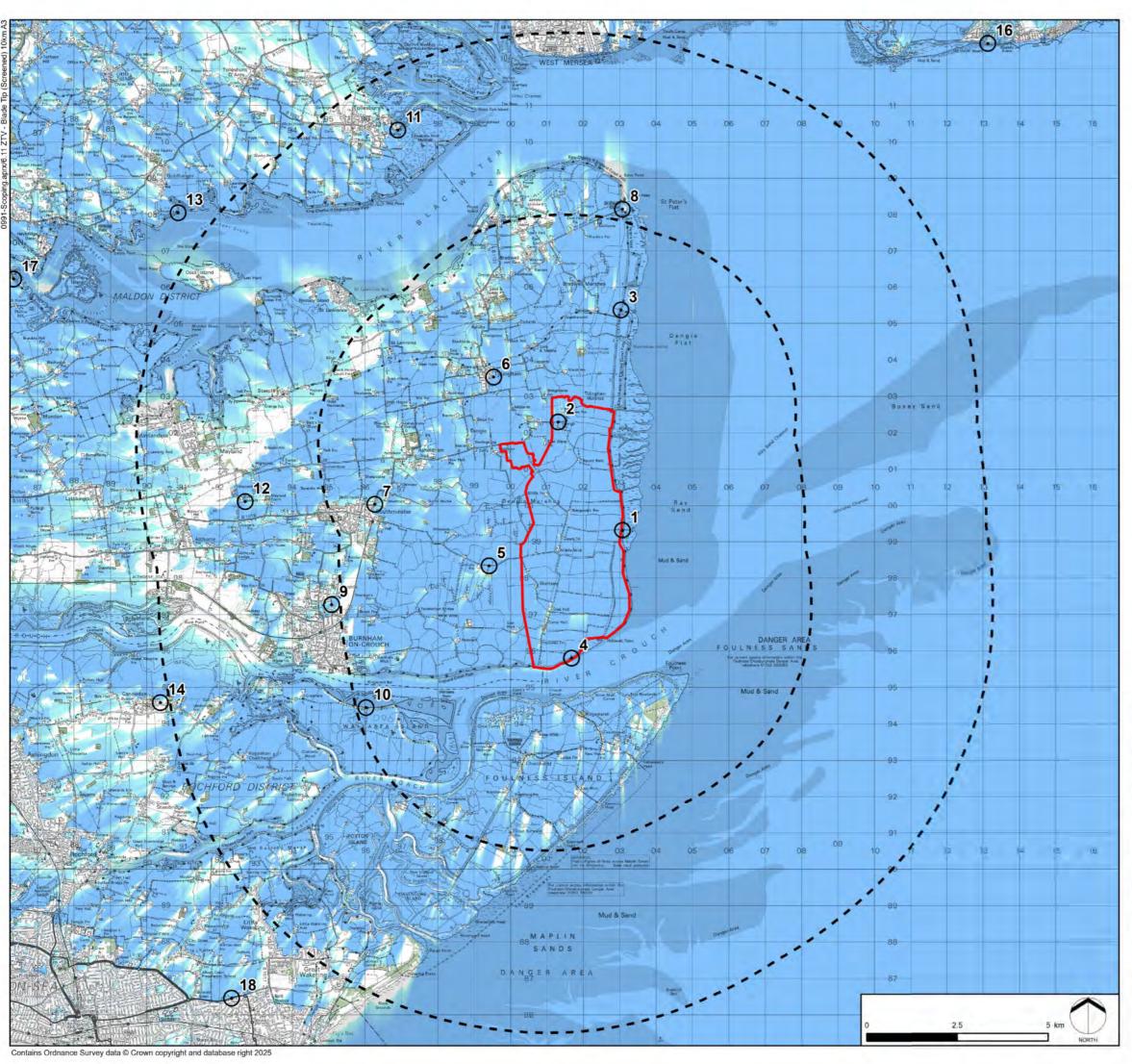




FIGURE 6.11

Zone of Theoretical Visibility - Blade Tip (Screened)

KEY

Site Boundary

Distance Radii from Site (5, 10km)



Proposed Viewpoints



Woodland (modelled at 15m) Zone of Theoretical Visibility (200m to blade tip)



More theoretical visibility

Less theoretical visibility

FIGURE DATA:

This figure has been based on the following data:

Layout file: D001-obsv-BT-T5-35km.shp Terrain data: T5-DSM.asc

Viewer's eye height: 2m above ground level Calculation grid size: 5m

NOTES:

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

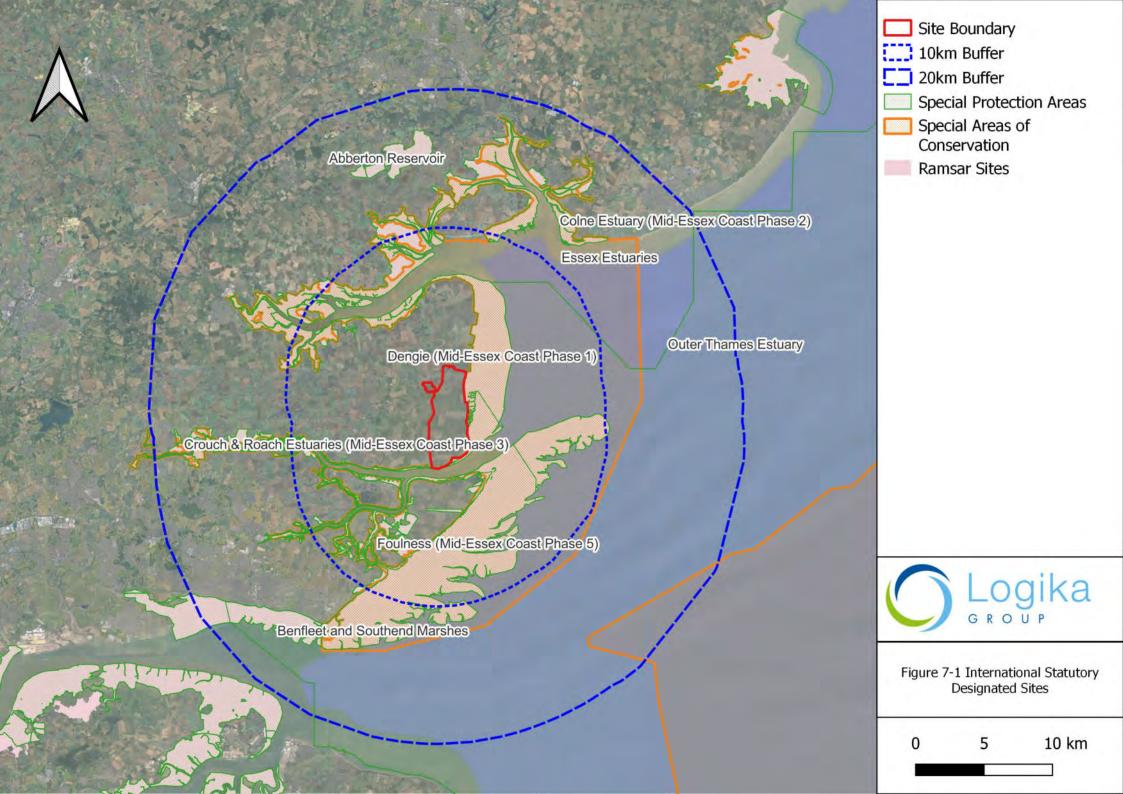
A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study

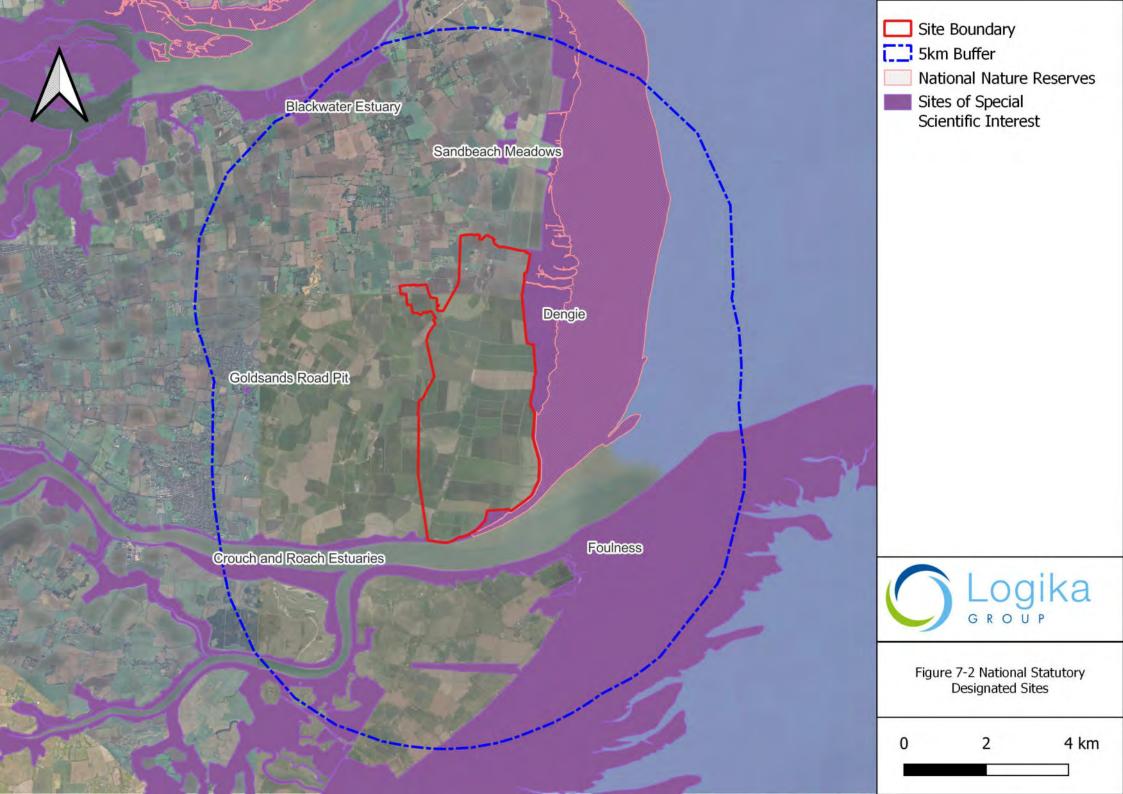
The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

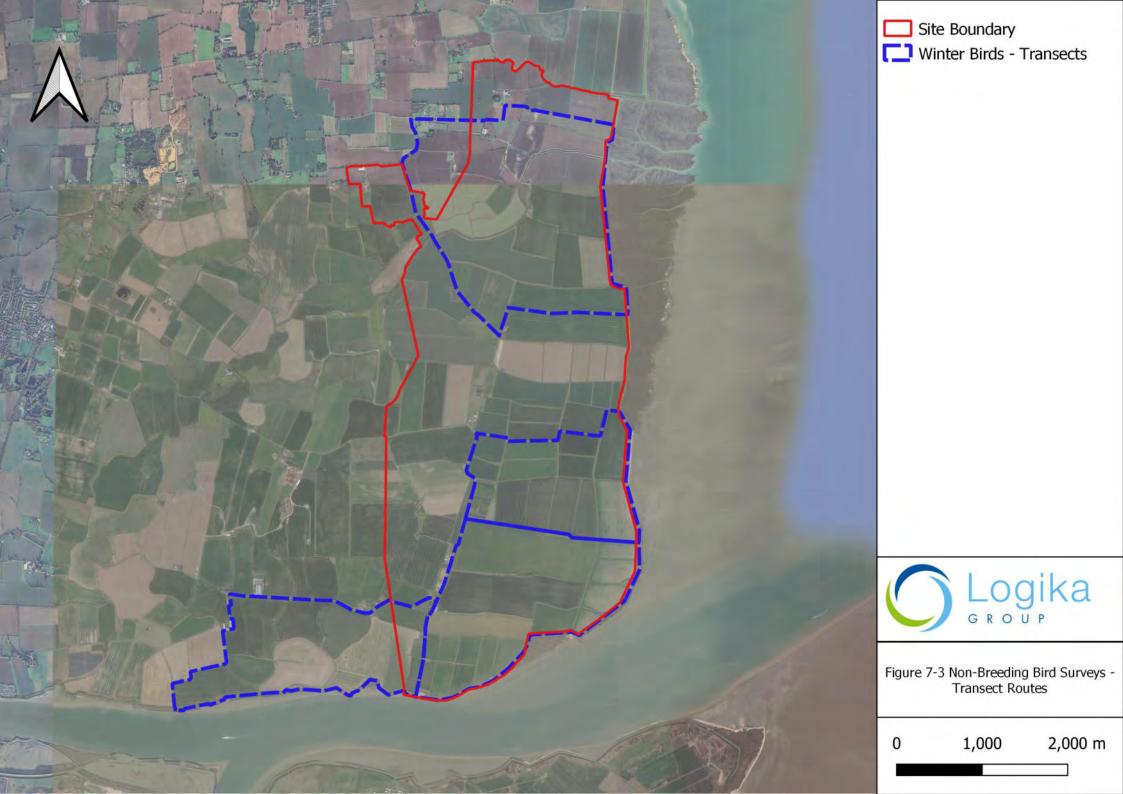
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m2 resolution.

Projected Coordinate System: British National Grid

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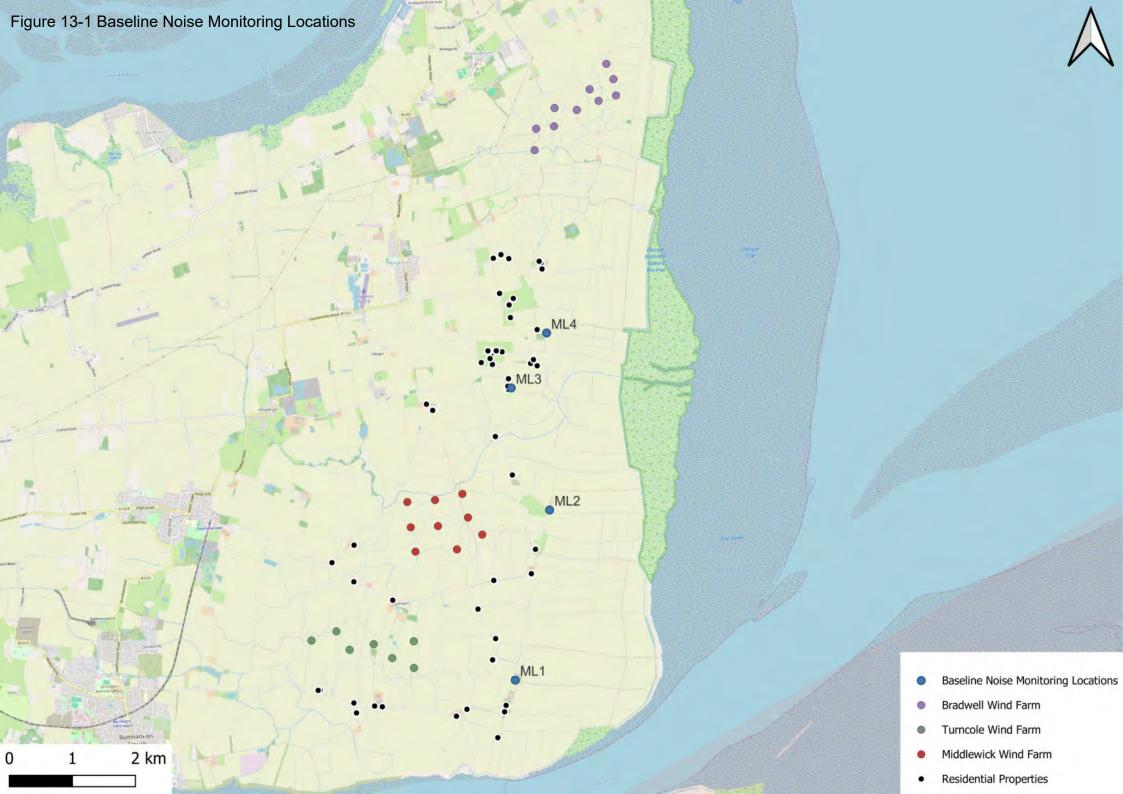














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