



Legend:

- Norfolk Boreas Site
- Offshore Cable Corridor
- Project Interconnector Search Area
- Study Area

**Monopile Noise Impact Contours (Fleeing Animal Model)**

- NE Temporary Threshold Shift (TTS) (186dB Contours)<sup>2</sup>
- SW Temporary Threshold Shift (TTS) (186dB Contours)<sup>2</sup>

**Monopile Noise Impact Contours (Stationary Model)**

- SW Temporary Threshold Shift (TTS) (186dB Contours)<sup>3</sup>

**Tope Nursery Grounds**

- High Intensity<sup>1</sup>
- Low Intensity<sup>1</sup>

**Thornback Ray Nursery Grounds**

- High Intensity<sup>1</sup>
- Low Intensity<sup>1</sup>

<sup>1</sup>Ellis et al., 2010  
<sup>2</sup>Subacoustech, 2018  
<sup>3</sup>Subacoustech, 2019

|                            |                                    |
|----------------------------|------------------------------------|
| Project:<br>Norfolk Boreas | Report:<br>Environmental Statement |
|----------------------------|------------------------------------|

Title:  
Tope and Thornback Ray Spawning Grounds and Nursery Grounds in Relation to Monopile Noise Impact Contours (5000KJ)

|               |                            |        |          |       |              |
|---------------|----------------------------|--------|----------|-------|--------------|
| Figure: 11.30 | Drawing No: VAT-BOR-11-030 |        |          |       |              |
| Revision:     | Date:                      | Drawn: | Checked: | Size: | Scale:       |
| 01            | 07/05/2019                 | CA     | SX       | A3    | 1:10,000,000 |

Co-ordinate system: ETRS 1989 UTM Zone 31N EPSG: 25831

© Vattenfall Wind Power Ltd 2019.  
Contains Ordnance Survey data © Crown copyright and database rights, 2019.