

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: November 2022

Version: 2

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1 Introduction

Ørsted is an offshore wind farm owner and operator with ten operational wind farms in UK waters. Of these ten, the following offshore wind farms are located off the East Coast of England:

- Gunfleet Sands
- Westernmost Rough
- Race Bank
- Lincs
- Hornsea One

The purpose of this monthly Notice to Mariners (NtM) is to ensure that mariners are aware of any non-routine operations across the East Coast assets that could pose a risk to other sea users. Safety is paramount to Ørsted and this notice should assist in ensuring that both mariners and the Ørsted operational team can operate safely offshore. This NtM will provide:

- A regular, clear and consistent overview of non-routine operations
- Updates relating to lighting and marking
- Key contact details
- Access to detailed site information and figures
- Clarity on when Safety Zones and recommended safe separation distances are in force or requested



This Notice to Mariners will not provide:

- Information relating to routine maintenance carried out by Crew Transfer Vessels (CTV) or Service Operation Vessels (SOV).
- Any information relating to export cables
- Any information relating to offshore wind farms currently in development, construction or not operated by Ørsted

Subsea Cables

Subsea cables are installed across each offshore wind farm and are marked on the KIS ORCA charts referenced in Section 1.2. Please note the following advice from NP 100 The Mariners Handbook "Every care should be taken to avoid anchoring, trawling, fishing, dredging, drilling, or carrying out any other activity in the vicinity of cables which might damage them." This warning is repeated on all admiralty charts.

Wind Farm Positional Data

KIS ORCA Awareness Charts (including the layout and coordinates) and Fishing Plotter Files of the offshore assets referenced in this NtM can be found via the KIS ORCA website: <https://kis-orca.org/downloads/> Should mariners require further information or any data in a format that can be used in a plotter or other device, please contact the Company Fisheries Liaison Officer, listed in Section 2 below.

2 Key Contacts

For further information on any of the activities listed within this notice, please use the contact details listed below.

Site	Ørsted Mailbox/ Offshore Coordination	Fisheries Industry Representative
Race Bank	Phone: 07826 943808 Email: rowoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Westermost Rough	Phone: 07867 674941 Email: wmroffshorec@orsted.com	Guy Pasco Phone: 07880 362082 Email: guy@seascopefisheries.co.uk
Lincs	Phone: 07766443319 Email: lincsoffshorec@orsted.com	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Gunfleet Sands		Merlin Jackson Phone: 07989 520484 Email: merlinjackson@btinternet.com
Hornsea One	Phone: 07775005465 Email: HOWoffshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk
Hornsea Two	Phone: 07775005465 Email: HOW02offshoreC@orsted.com	Nick Garside Phone: 07538 827013 Email: nick.garside@live.co.uk

Company Fisheries Liaison Officer

The Ørsted Company Fisheries Liaison Officer can be contacted using the details below:

Lara Leonard
Email: LARLN@Orsted.com

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	Yes	None	CXR Cable Inspection**
Westermose Rough	OK	Yes	None	None
Lincs	OK	None	None	None
Gunfleet Sands	OK	None	Yes	Main bearing replacement ^{°*} Generator Exchange ^{°*}
Hornsea One	A04 marine lantern & fog signal.	None	None	None

* Formal 500m safety zone in place

° Licensable activity

** 500m safety distance requested

*** 200m safety distance requested

**** 250m safety distance requested

Status of lighting & marking is correct at time of issue; any changes will be communicated through an updated version being issued.

4 Race Bank – Notice to Mariners

4.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

4.2 Other Operations

4.2.1 Benthic Survey

The survey vessel Seren Las benthic survey still ongoing (waiting for weather windows), expect it to extend throughout November.

Vessel Information

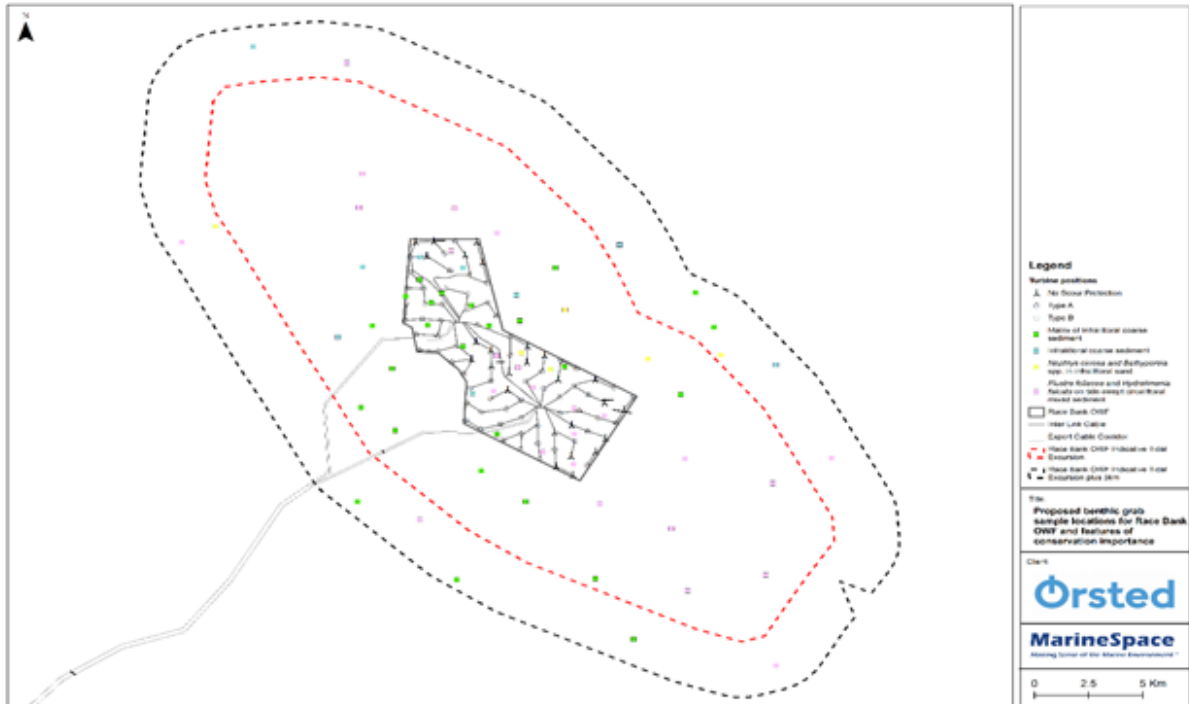
General Information		Vessel Picture
Name	Seren Las	
Flag	United Kingdom [GB]	
Year Built		
MMSI	235087047	
Call Sign	MDAH2	
Vessel Contact Details		
Bridge		
Party Chief		
Email		

WTG ID	Latitude	Longitude
A03	53 19 166N	00 46 392E
D06	53 18 087N	00 48 770E
E08	53 15 403N	00 48 960E
F05	53 15 548N	00 49 941E
G03	53 16 315N	00 50 659E
H06	53 14 550N	00 51 267E
J01	53 16 852N	00 52 107E
J03	53 15 876N	00 52 130E
Export Cable Route	See Below note	See Below note

Notes:

Text from the methodology: *At each of these, a cruciform of grab stations have been arranged with four grab stations at 150 m from the turbine on the cardinal points aligned to the dominant tidal flow and two further grab stations at 300 m distance aligned to the tidal flow.*

They will also be sampling outside of the array in the areas shown below and at locations along the export cable route.



4.2.2 CXR Cable Inspection Work Scope


Start date: Window 9th to 12th November 2022

Duration of work scope: 1 day of Operations

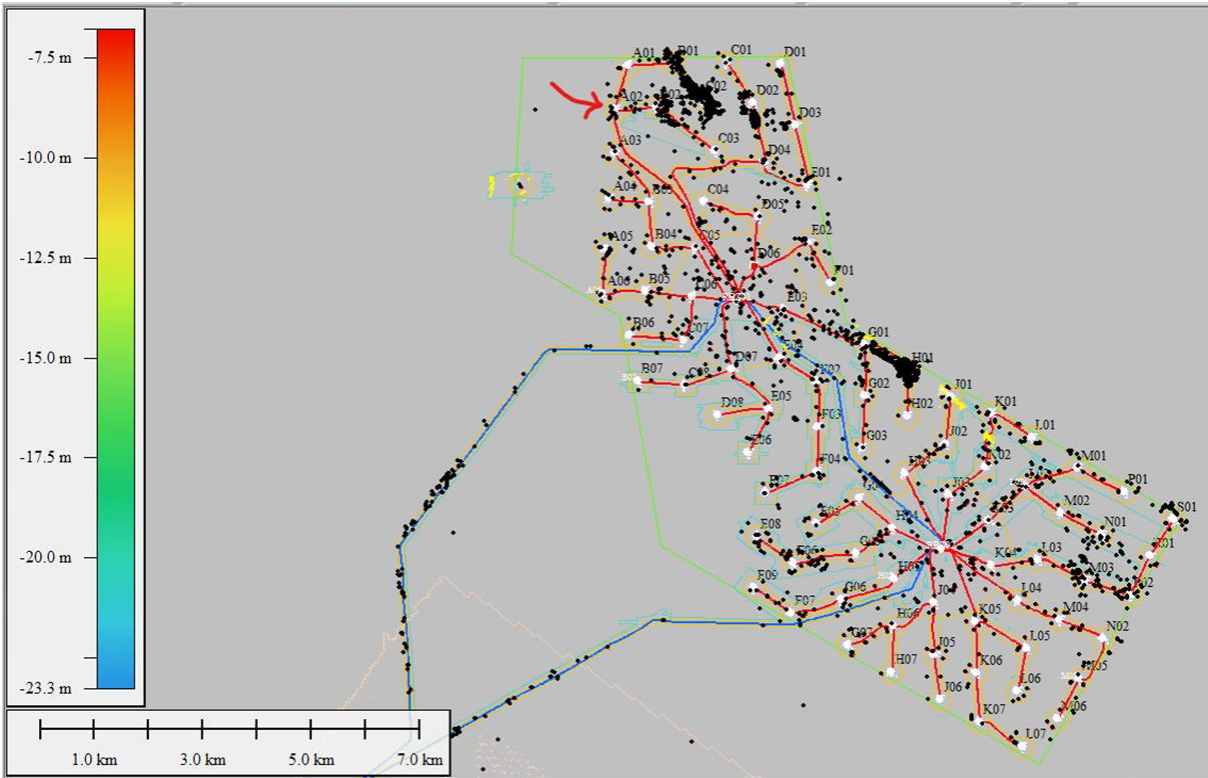
Description of work: ROV Inspection of cable from aperture to burial

Is this a licensed activity: CXR Cable Inspection Work Scope

Safety zone required. If Yes what distance? 500m minimum when ROV diving in water

General Information		Vessel Picture
Name	Glomar Worker	
Flag	Panama [PA]	
Year Built	2008	
MMSI	352110000	
Call Sign	3EKK8	
Vessel Contact Details		
Bridge	+31 852088024	
Captain	Maksym Zbroy	
Email	bridge@glomarworker.com	

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A02	53°19'36.1"N	000°46'23.5"E



5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.

5.2 Other Operations

On the 12th November, the Racebank Service Operation Vessel (SOV) will be on the perimeter of Westermost Rough with the CTV's Windcat 24 & Windcat 32 supporting routine operations. The SOV will not be entering site.

5.1.1 WMR Project work

Around the 12th of November, the EDDA PASSAT (Raceback SOV) will be positioned outside of the Westermost Rough Windfarm for a period of upto 5 weeks, departing only for Port Call. To assist in WMR Campaign catch up, the project will be supported by the Manor Vulcan

General Information		Vessel Picture
Name	Manor Vulcan	
Flag	United Kingdom [GB]	
Year Built	2022	
MMSI Number	232042488	
Call Sign	MLRK6	
Vessel Contact Details		
Bridge		
Party Chief		
Email	mj@mreltd.co.uk	

6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No planned outages.

6.2 Other Operations

Nothing planned.

7 Gunfleet Sands – Notice to Mariners

7.1 Lighting and Marking Status


The lighting and/ or navigational warning systems are currently operational. No planned outages.


7.2 Other Operations

7.2.1 C06 Generator Exchange

The Jack up Vessel Wind is expected on site on the 24th-27th October to carry out a Generator Exchange on locations c06. A 500m exclusion zone will be required whilst the Wind is in position at the turbines and whilst jacking up.

Vessels

General Information		Vessel Picture
Name	Wind	
Flag	Denmark	
Year Built	2011	
MMSI	220520000	
Call Sign	OXSW2	
Vessel Contact Details		
Bridge	+45 20 48 55 86	
Party Chief		
Email	projects@ziton.eu	


General Information		Vessel Picture
Name	Kitty Petra	
Flag	UK	
Year Built	2014	
MMSI	235103572	
Call Sign	2HGW7	
Vessel Contact Details		
Bridge		
Party Chief		
Email	Kittypetra@tidal-transit.com	


WTG ID	Long	Lat
C06	01° 14.923' E	51° 44.590' N

7.2.2 Main Bearing Replacement

The Jack up Vessel Wind Server is expected on site on the 12th November to carry out main bearing replacements on locations E04, F04 & F08. A 500m exclusion zone will be required whilst the Wind Server is in position at the turbines and whilst jacking up. CTV Eden Rose

Vessels


General Information		Vessel Picture
Name	WIND SERVER	
Flag	Denmark [DK]	
Year Built	2014	
MMSI Number	219615000	
Call Sign	OWLB2	
Vessel Contact Details		
Bridge		
Party Chief		
Email	projects@ziton.eu	

General Information		Vessel Picture
Name	Eden Rose	
Flag	UK	
Year Built		
MMSI Number	235092732	
Call Sign	2FNN5	
Vessel Contact Details		
Bridge		
Party Chief		
Email	edenrose@tidal-transit.com	

WTG ID	Long	Lat
E04	001° 13.96947023' E	51° 43.66431166' N
F04	001° 14.14774691' E	51° 43.45741667' N
F08	001° 16.772' E	51° 44.481' N

7.2.3 PH Sensor/NDT SIAW/Corrosion & WQMS Service

Cwind alliance will be onsite from the 24th of October, for approx. 1 week, to conduct multiple measuring works on G08, G07, F03, B02, B05, B03, A02

General Information		Vessel Picture
Name	Cwind Alliance	
Flag	UK	
Year Built		
MMSI	235088195	
Call Sign	2EUE3	
Vessel Contact Details		
Bridge	07967 768758	
Party Chief		
Email	Alliance@CWind.global	

WTG ID	Long	Lat
A02	01° 11.285' E	51° 43.724' N
B02	01° 12.120' E	51° 43.773' N
B03	01° 12.776' E	51° 44.029' N
B05	01° 14.088' E	51° 44.541' N
F03	01° 13.492' E	51° 43.201' N
G07	01° 16.295' E	51° 44.018' N
G08	01° 16.951' E	51° 44.530' N

7.3 Cable exposure

There are subsea cables currently exposed as shown on the below chart and coordinates

ID	Array Cable ID	Length (m)	Start Coordinate		End Coordinate	
			X	Y	X	Y
GFS_MBES_T0 01- Unidentified Other	F08-F09	13.4	381926.6813	5734099.2514	381941.1213	5734102.2491
GFS_MBES_T0 02-Cable Exposure	F08-F09	790.93	381230.1477	5733680.7421	381918.2586	5734094.8699
GFS_MBES_T0 03-Cable Exposure	F07-F08	533.19	380968.1396	5733528.5434	381159.7110	5733644.3273
GFS_MBES_T0 04-Cable Exposure	F06-F07	25.25	380380.6553	5733175.2259	380399.7014	5733187.5362

8 Hornsea One – Notice to Mariners

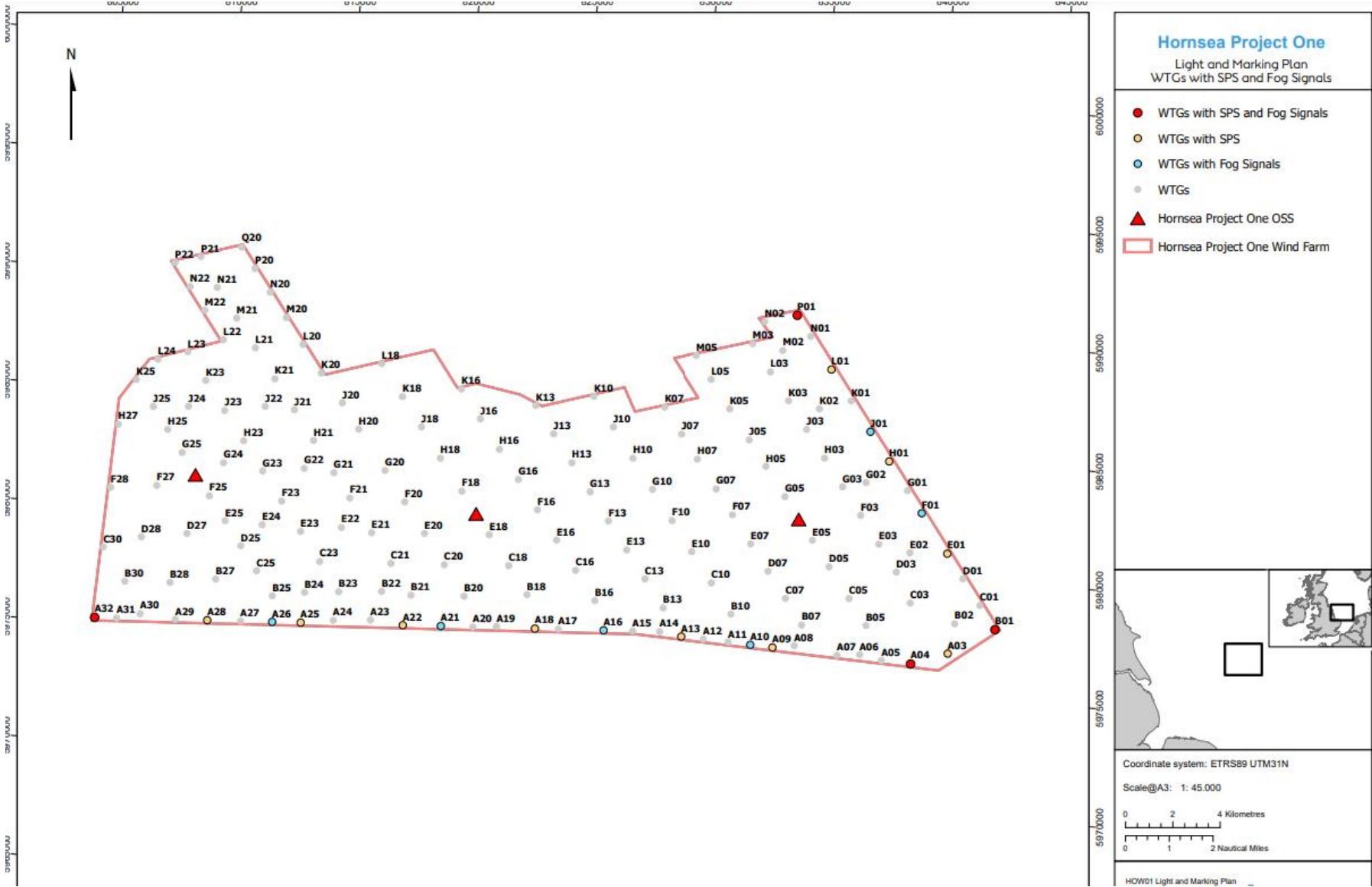
8.1 Lighting and Marking Status

A04 marine lanterns & foghorn are currently inoperative. There are no other planned outages.

Mariners are advised that the marine navigation lighting and foghorns on turbines situated on the Hornsea Project One / Two adjoining perimeter have now been extinguished. Marine navigation lighting will now alight the combined perimeter of Hornsea Project One and Two.

Please see the table below showing the locations where the foghorns/marine navigation lighting has been discontinued (indicated with an X)

Turbine	Marine Navigation Lights	Foghorns
K25	X	
Q20	X	X
C30	X	X
H27	X	X
P22	X	X
L20		X
K16		X
K10		X
M05		X



8.2 Other Operations

Nothing planned.