

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: August 2022

Version: 2

Table of Contents

1	Introduction	3
1.1	Subsea Cables.....	3
1.2	Wind Farm Positional Data	4
2	Key Contacts.....	4
3	Notice to Mariners Summary:.....	5
4	Race Bank – Notice to Mariners	6
4.1	Lighting and Marking Status.....	6
4.2	Other Operations.....	6
4.2.1	Benthic Survey	6
4.2.2	Bolt Cowling Retrofit.....	8
4.2.3	Wave Buoy.....	9
5	Westermost Rough – Notice to Mariners	10
5.1	Lighting and Marking Status.....	10
5.2	Other Operations.....	10
5.1.1	Blade LEP campaign.....	10
5.1.2	Below water Inspections	11
6	Lincs – Notice to Mariners.....	12
6.1	Lighting and Marking Status.....	12
6.2	Other Operations.....	12
6.2.1	LS40/LS75 Generator Replacement.....	12
7	Gunfleet Sands – Notice to Mariners	14
7.1	Lighting and Marking Status.....	14
7.2	Other Operations.....	14
7.3	Cable exposure	14
8	Hornsea One – Notice to Mariners.....	15
8.1	Lighting and Marking Status.....	15
8.2	Other Operations.....	15
8.2.1	Drone Blade Inspections	15

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
- Westermost 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.co.uk	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Westermost Rough	Phone: 07867 674941 Email: wmroffshorec@orsted.co.uk	Guy Pasco Phone: 07880 362082 Email: guy@seascopefisheries.co.uk
Lincs	Phone: 07766443319 Email: lincsoffshorec@orsted.co.uk	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.co.uk	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:

Courtney French
Email: CONFR@Orsted.co.uk

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	Yes	None	Blade campaign
Westermost Rough	OK	Yes	Yes	Blade LEP, Below water Inspections
Lincs	OK	None	Yes	Main Generator Replacement*
Gunfleet Sands	OK	None	None	None
Hornsea One	A04 marine lantern & fog signal.	None	Yes	Blade inspections

- * 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 will be on site at points during August to complete a benthic survey. See below for locations.

Vessel Information

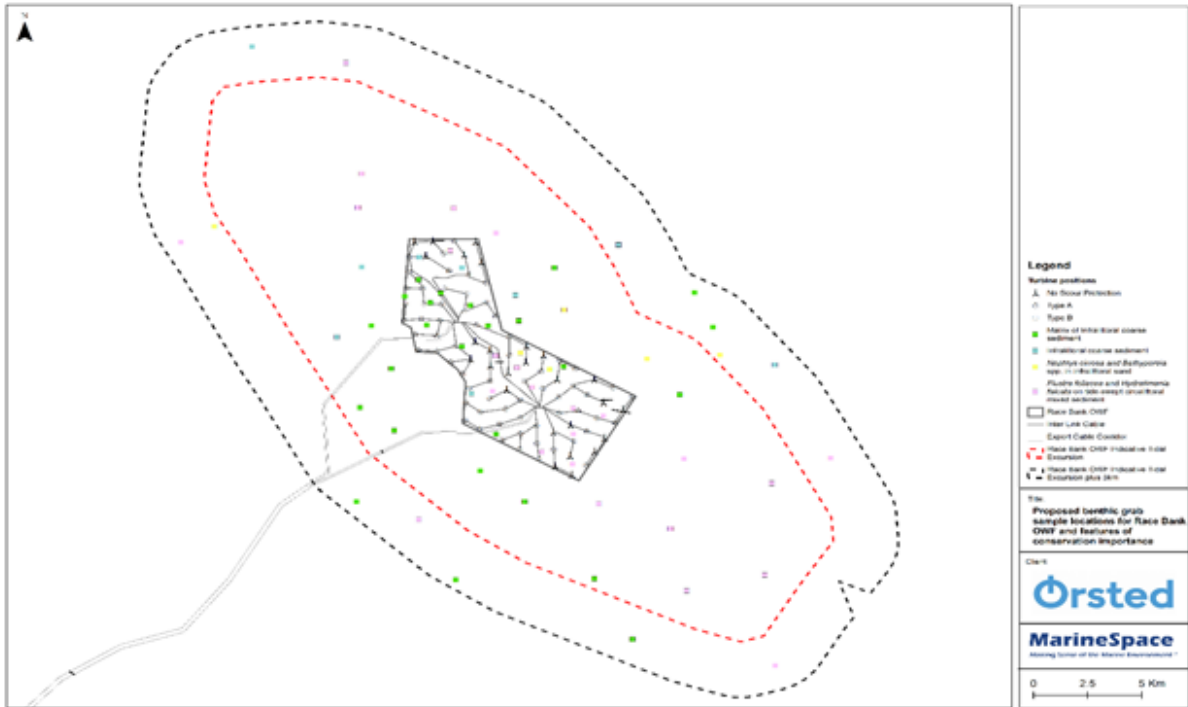
General Information		Vessel Picture
Name	Seren Las	
Flag	United Kingdom [GB]	
Year Built		
MMSI	235087047	
Call Sign	MDAH2	
Vessel Contact Details		
Bridge		
Party Chief		
Email		

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 Bolt Cowling Retrofit


The CTV's SeaZip 7 & SeaZip 8 will be on site from approx. 7th June to conduct a blade campaign, we anticipate that this will take up to 2 months.

When the technicians are deployed via the ropes an exclusion zone of 150m will be required.

All 91 turbines will be visited.

Vessel Information

General Information		Vessel Picture
Name	SeaZip 7	
Flag	United Kingdom [GB]	
Year Built	2018	
MMSI	232013884	
Call Sign	MCPB6	
Vessel Contact Details		
Bridge		
Party Chief		
Email	MCPB6@seazip.com	

General Information		Vessel Picture
Name	SeaZip 8	
Flag	United Kingdom [GB]	
Year Built	2018	
MMSI	232013885	
Call Sign	MCPB7	
Vessel Contact Details		
Bridge		
Party Chief		
Email	MCPB7@seazip.com	

4.2.3 Wave Buoy


Start date: **04-08-2022**

Duration of work scope: **1 Day per site (Estimated 3rd August Start)**

Description of work: **Wave Buoy Servicing**

Is this a licensed activity: **No**

Safety zone required. If Yes what distance? **No**

General Information		Vessel Picture
Name	Hunter Arctic	
Flag	Denmark	
Year Built	1978	
MMSI	219616000	
Call Sign	OUWK2	
Vessel Contact Details		
Bridge	+ 49 (0) 4124 5033919	
Party Chief	Yakira Hartmann	
Email	yakira.hartmann@os-energy.de	

Type	Easting	Northing	Longitude (DDM)	Latitude (DDM)	Longitude (DD)	Latitude (DD)
Metoccean Buoy	5900878	359863	000° 54.007' E	53° 14.320' N,	0.900116	53.238666 N

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

5.1.1 Blade LEP campaign


The CTV's Tia Elizabeth and Ginny Louise will be on site to conduct the blade repairs until the end of September.

When the technicians are deployed via the ropes an exclusion zone of 100m will be required.

All 35 turbines will be visited.

Vessel Information


General Information		Vessel Picture
Name	Tia Elizabeth	 <p>A blue and white motor vessel with 'TIA ELIZABETH' written on the side, operating in a harbor area with red cranes in the background.</p>
Flag	United Kingdom [GB]	
Year Built	2013	
MMSI Number	235098384	
Call Sign	2GLJ2	
Vessel Contact Details		
Bridge	+44 7497603183	
Party Chief		
Email	tiaelizabeth@tidal-transit.com	

General Information		Vessel Picture
Name	Ginny Louise	 <p>A blue and white motor vessel with 'GINNY LOUISE' written on the side, operating on the open sea.</p>
Flag	United Kingdom (GB)	
Year Built	2011	
MMSI	235090162	
Call Sign	2FCV4	
Vessel Contact Details		
Bridge	+44 7943 445 087	
Party Chief		
Email	ginnylouise@tidal-transit.com	

5.1.2 Below water Inspections

On the 14th August the HBC Achiever will be on site to conduct diving and ROV operations at the locations identified below. The vessel will require a 500m exclusion zone whilst divers and the ROV are deployed.

Vessel information

Name	HBC Achiever	
Flag	Denmark (DK)	
Year Built	2014	
MMSI Number	219305000	
Call Sign	OWMH2	
Vessel Contact Details		
Bridge	07444612495 (EU) 07533793622 (UK)	
Party Chief		
Email	achieverbridge@hbc-tec.dk	

WINDFARM	TURBINEID	WGS84 (Deg, decimal Minutes)	
		LONGITUDE	LATITUDE
WMR01	A04	000° 06.85818950' E	53° 47.47696658' N
WMR01	D07	000° 07.90033622' E	53° 49.78462890' N
WMR01	E06	000° 09.25156373' E	53° 49.72492298' N
WMR01	F01	000° 12.61599900' E	53° 47.99516287' N
WMR01	F03	000° 11.60091884' E	53° 48.83725758' N
WMR01	F05	000° 10.57587435' E	53° 49.68731194' N
WMR01	F07	000° 09.60859260' E	53° 50.49184716' N

6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational.


6.2 Other Operations

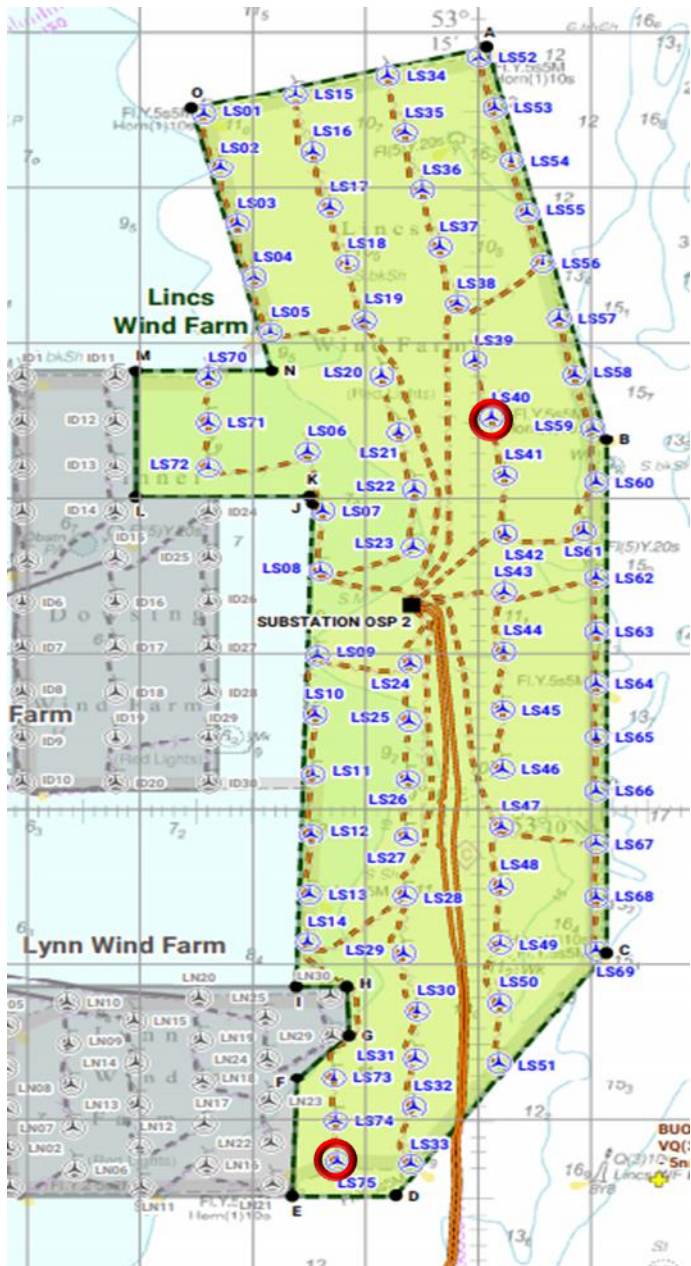
6.2.1 LS40/LS75 Generator Replacement

Emergent works will be required at 2 locations on Lincs Offshore Windfarm for Generator Replacements expected to start around the 30th July, with works lasting up to 2 weeks. There will be the requirement for a 500m Safety Zone for the duration of the operation.

Vessel Information

General Information		Vessel Picture
Name	Wind Pioneer	
Flag	Denmark	
Year Built	2011	
MMSI	219017684	
Call Sign	OWLA2	
Vessel Contact Details		
Bridge	+4561372673	
Party Chief		
Email	Master.windpioneer@ziton.eu	





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

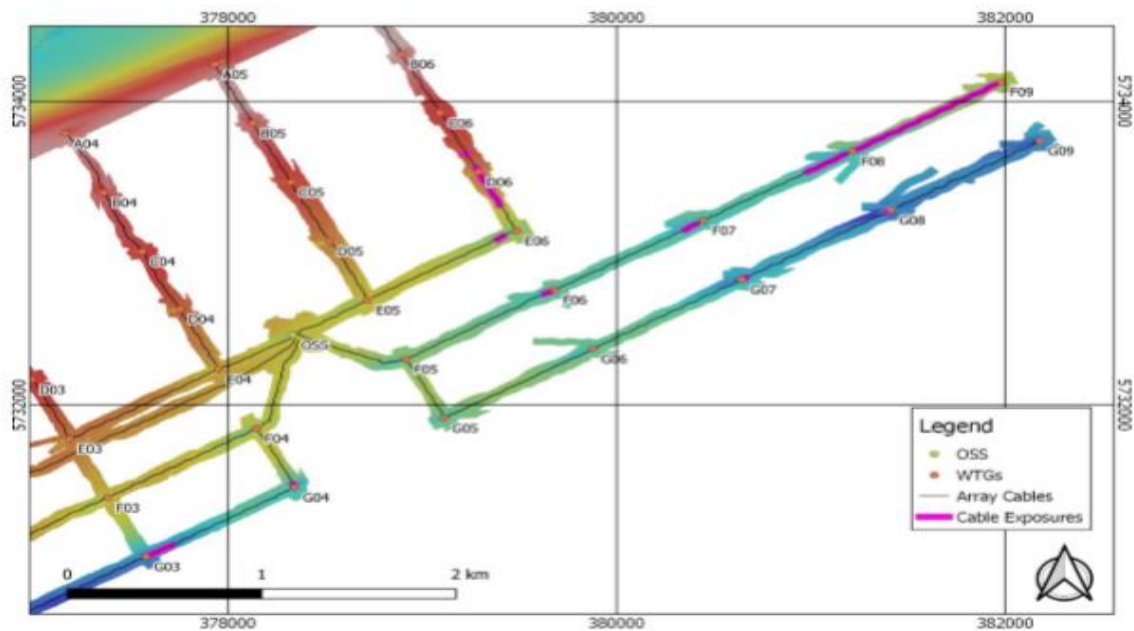
None planned

7.3 Cable exposure

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

Array cable	Nearest WTG	Distance from WTG to start exposure [m]	Exposure length [m]	Coordinates start exposure		Coordinates end exposure	
				X	Y	X	Y
F06-F07	F07	53.9	73.9	380400.9	5733188.0	380341.2	5733147.0
F07-F08	F08	52.4	216.1	381166.3	5733649.0	380982.7	5733538.0
F08-F09	F08	28.1	827.9	381238.4	5733685.0	381942.3	5734108.0
G03-G04	G03	19.9	129.8	377595.9	5731011.0	377708.3	5731074.0
G07-G08	G07	15.4	5.8	380657.0	5732835.0	380662.0	5732838.0
G07-G08	G08	6.5	11.0	381404.9	5733280.0	381395.3	5733275.0

Table 5-1; Array cable exposures detected in GFS0102



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.

8.2 Other Operations

8.2.1 Drone Blade Inspections

On the 12th August, the vessel Ary will be on site to complete Blade Inspections via drone. All 174 WTG's will be inspected. We anticipate the work will take around 30 days to complete.

Vessel Information

General Information		Vessel Picture
Name	Ary	
Flag	VANUATU	
Year Built	1980	
MMSI	577031000	
Call Sign	YJQJ5	
Vessel Contact Details		
Bridge		
Party Chief		
Email		

