

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: May 2023

Version: 1



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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
- Westermost Rough
- Race Bank
- Lincs
- Hornsea One
- Hornsea Two

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: <u>https://kis-orca.org/downloads/</u> 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: <u>rowoffshorec@orsted.com</u>	Ady Woods Phone: 07468 898948 Email: <u>firwoods@hotmail.com</u>
Westermost Rough	Phone: 07867 674941 Email: <u>wmroffshorec@orsted.com</u>	Guy Pasco Phone: 07880 362082 Email: <u>guy@seascopefisheries.co.uk</u>
Lincs	Phone: 07766443319	Ady Woods Phone: 07468 898948 Email: firwoods@hotmail.com
Gunfleet Sands	— Email: <u>lincsoffshorec@orsted.com</u>	Merlin Jackson Phone: 07989 520484 Email: merlinjackson@btinternet.com
Hornsea One	Phone: 07775005465 Email: <u>HOWoffshoreC@orsted.com</u>	Nick Garside Phone: 07538 827013 Email: <u>nick.garside@live.co.uk</u>
Hornsea Two	Phone: 07775005465 Email: <u>HOW02offshoreC@orsted.com</u>	Nick Garside Phone: 07538 827013 Email: <u>nick.garside@live.co.uk</u>

Company Fisheries Liaison Officer

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

Lee Thompson Email: <u>LEETH@orstred.com</u>



3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	None	None	Below water inspections***
Westermost Rough	ОК	None	None	Blade LEP***, Below water inspections**
Lincs	ОК	None	Yes	Below water inspections** Oil exchange Generator exchange°**
Gunfleet Sands	ОК	None	None	WTG inspections. Blade LEP***
Hornsea One	ОК	None	None	CRX Cable Stabilisation ° *
Hornsea Two	 T29 – Fog signal constantly sounding N35, T25, T29 and T33, will we inoperable from the 17th until the 26th of April approx A36, A39, A42, E39, J37, R01, S05, S11, S16, T21, will be inoperable from the 22nd = 26th of April approx All Marine Lanterns will be replaced with Temporary Marine Lanterns for the above duration. 	None	None	Below water inspections**, TMO Offshore Substation and RCS works.

* Formal 500m safety zone in place

° Licensable activity

** 500m safety distance requested

*** 100m 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

Nothing planned.

4.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m Is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change -

Hornsea 2 – 3rd April -17th April Westermost Rough – 17th April to 7th May Racebank – 7th May to 27th May Lincs – 27th May to 10th June

Locations

	ROW01	
10	WGS84 (Deg, decimal Minutes)	
ID	LONGITUDE	LATITUDE
A02	000° 46.39246873' E	53° 19.60211918' N
A06	000° 46.27385363' E	53° 17.76367980' N
B04	000° 47.06811240' E	53° 18.25361035' N
B05	000° 46.98256021' E	53° 17.80719695' N
B07	000° 46.91275421' E	53° 16.90710905' N
C06	000° 47.76375163' E	53° 17.76551653' N
D05	000° 48.82012878' E	53° 18.57565677' N
D06	000° 48.77004175' E	53° 18.08704817' N
E09	000° 48.93852646' E	53° 14.89596701' N
F06	000° 49.58502941' E	53° 15.14631826' N
G04	000° 50.63256729' E	53° 15.81100077' N

G06	000° 50.38632136' E	53° 14.80419226' N
J04	000° 51.93423211' E	53° 14.79411505' N
К05	000° 52.63349150' E	53° 14.61948155' N
L03	000° 53.63247634' E	53° 15.25408489' N
M03	000° 54.42481079' E	53° 15.06218910' N
N02	000° 54.75884544' E	53° 14.48642004' N
P02	000° 55.17151347' E	53° 14.93026804' N

	General Information	Vessel Picture
Name	Curtis Marshall	7
Flag	UK	
Year Built	2015	
MMSI Number	235107219	
Call Sign	SHWN3	
	Vessel Contact Details	
Bridge		
Party Chief		
		(A) Vester
Email	info@bmarshallmarine.co.uk	0



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

5.2.1 Blade LEP campaign

In mid-April we are starting an LEP campaign which we anticipate will take between 3-4 months. The SOV CF Explorer and with CTV will support the project. The work scope involves rope access technicians. When the technicians are on the ropes, we will require a 100m exclusion zone.

Vessel Information

	General Information	
Name	CF EXPLORER	
Flag	Cyprus	
Year Built	2008	
MMSI Number	209816000	
Call Sign	5BKK5	1
	Vessel Contact Details	
Bridge	+31686489927	A.F.
Party Chief	master.cfexplorer@tsmvessel.com	
Email	master.cfexplorer@tsmvessel.com	Charles and the second



	General Information	
Name	Iceni Warrior	
Flag	UK	
Year Built	2010	
MMSI Number	235087484	
Call Sign	2ERD5	
	Vessel Contact Details	
Bridge	+44 7809 727 397	H SA
Party Chief		
		- W
Email	warrior@turnericeni.com	Standing of the second



5.2.2 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m Is requested whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change -

Hornsea 2 – 3rd April -17th April Westermost Rough – 17th April to 7th May Racebank – 7th May to 27th May Lincs – 27th May to 10th June

Locations

	WMR01		
10	WGS84 (Deg, de	cimal Minutes)	
ID	LONGITUDE	LATITUDE	
A03	000° 07.37885722' E	53° 47.04119733' N	
A04	000° 06.85818950' E	53° 47.47696658' N	
B04	000° 07.70116565' E	53° 47.83499605' N	
C01	000° 10.06644598' E	53° 46.92462112' N	
C02	000° 09.57049861' E	53° 47.34205597' N	
D07	000° 07.90033622' E	53° 49.78462890' N	
F07	000° 09.60859260' E	53° 50.49184716' N	

	General Information	Vessel Picture
Name	Curtis Marshall	×
Flag	UK	4
Year Built	2015	And
MMSI Numbe	r235107219	
Call Sign	SHWN3	
	Vessel Contact Details	
Bridge		
Party Chief		Vestel
Email	info@bmarshallmarine.co.uk	768 × 512



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

6.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m Is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change -

Hornsea 2 – 3rd April -17th April Westermost Rough – 17th April to 7th May Racebank – 7th May to 27th May Lincs – 27th May to 10th June

	LIC01	
10	WGS84 (Deg, de	cimal Minutes)
ID	LONGITUDE	LATITUDE
LS49	000° 30.19540736' E	53° 09.12686464' N
LS51	000° 30.18309978' E	53° 08.36483805' N
LS44	000° 30.22573833' E	53° 11.01627043' N
LS45	000° 30.21984534' E	53° 10.63850150' N
LS66	000° 31.04737522' E	53° 10.11685148' N
LS38	000° 29.81422658' E	53° 13.25407838' N
LS53	000° 30.14917186' E	53° 14.51056753' N
LS54	000° 30.29313320' E	53° 14.16938999' N
LS03	000° 27.86626870' E	53° 13.77233327' N
LS18	000° 28.84003737' E	53° 13.51083924' N
LS06	000° 28.48706290' E	53° 12.29867449' N
LS08	000° 28.60398324' E	53° 11.53237203' N
LS20	000° 29.14500121' E	53° 12.78627019' N
LS09	000° 28.57553167' E	53° 10.99227302' N
LS26	000° 29.37666510' E	53° 10.19241312' N
LS27	000° 29.36436664' E	53° 09.81882249' N
LS74	000° 28.73796525' E	53° 07.99340828' N



LS75	000° 28.75361655' E	53° 07.72614788' N
------	---------------------	--------------------

	General Information	Vessel Picture
Name	Curtis Marshall	7.
Flag	UK	
Year Built	2015	
MMSI Number	r235107219	
Call Sign	SHWN3	
	Vessel Contact Details	
Bridge		
Party Chief		
		(A) Vessel
Email	info@bmarshallmarine.co.uk	Re-unit Laundea 768 × 512

6.2.2 WTG Oil exchange

On the 1st May, the vessel Spectrum 4 will be on site conducting an oil exchange. All 75 locations will be visited with the scope anticipated on taking just over 3 months.

Vessel information

	General Information	Vessel Picture
Name	Spectrum 4	
Flag	UK	it is the second
Year Built	2016	
MMSI Number	235080287	
Call Sign	2DMP7	
	Vessel Contact Details	
Bridge	07496690608	Sectors Sectors
Party Chief		
Email	Spectrum4@spectrum-offshore.com	



6.2.3 Generator exchange

On the 17th April the Jack Up Vessel Wind will be on site to conduct a Generator exchange on LS50, the CTV MMS Superior will also be on site in support of the workscope. Mariners must observe an approved safety zone of 500m whenever Wind is attached to a WTG. A minimum separation distance of 500m is also requested when the vessel is observed manoeuvring into position

Vessel information

	General Information	Vessel Picture	
Name	Wind		
Flag	Danish		
Year Built	1996		
MMSI	220520000		
Call Sign	OXSW2		
	Vessel Contact Details		
Bridge	'+45 20 48 55 86		
Party Chief			
Email	master.wind@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

7.2.1 GFS LEP Campaign

Start date: 14th April 2023

Duration of work scope:110 days

Description of work: Rope Access Blade Maintenance Blade Repair across all 48 WTGs at Gunfleet Sands Safety zone required. 100m exclusion zone around the WTG on Gunfleet Offshore windfarm

Vessel Information

	General Information	Vessel Picture
Name	NSL DISCOVERY	
Flag	UK	
Year Built	2012	9.
MMSI	235096731	
Call Sign	2GEQ9	A ANTI THE FIT
	Vessel Contact Details	
Bridge	ТВС	
Party Chief	ТВС	North Sea Logistics
Email	discovery@northsealogistics.co.uk	

7.2.2 GFS EBI Drone Inspections

Start date: 4th April 2023

Duration of work scope:

Description of work: Drone blade inspections to be carried out from Site and LEP campaign CTVs (Above) across all 48 WTGs at Gunfleet Sands.

Safety zone required. 100m exclusion zone around the WTG on Gunfleet Offshore windfarm



7.3 Cable exposure

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

WGS84 Degrees, decimal Minutes						
ID	ArrayCableID	Length_m	StartCoord_Longitude	StartCoord_Latitude	EndCoord_Longitude	EndCoord_Latitude
GFS_MBES_T0_01-UnidentifiedOther	F08-F09	13.4	1° 17.383' E	51° 44.721' N	1° 17.396' E	51° 44.723' N
GFS_MBES_T0_02-CableExposure	F08-F09	790.93	1° 16.787' E	51° 44.486' N	1° 17.376' E	51° 44.718' N
GFS_MBES_T0_03-CableExposure	F07-F08	533.19	1° 16.562' E	51° 44.401' N	1° 16.726' E	51° 44.466' N
GFS_MBES_T0_04-CableExposure	F06-F07	25.25	1° 16.059' E	51° 44.203' N	1° 16.075' E	51° 44.210' N



8 Hornsea One – Notice to Mariners

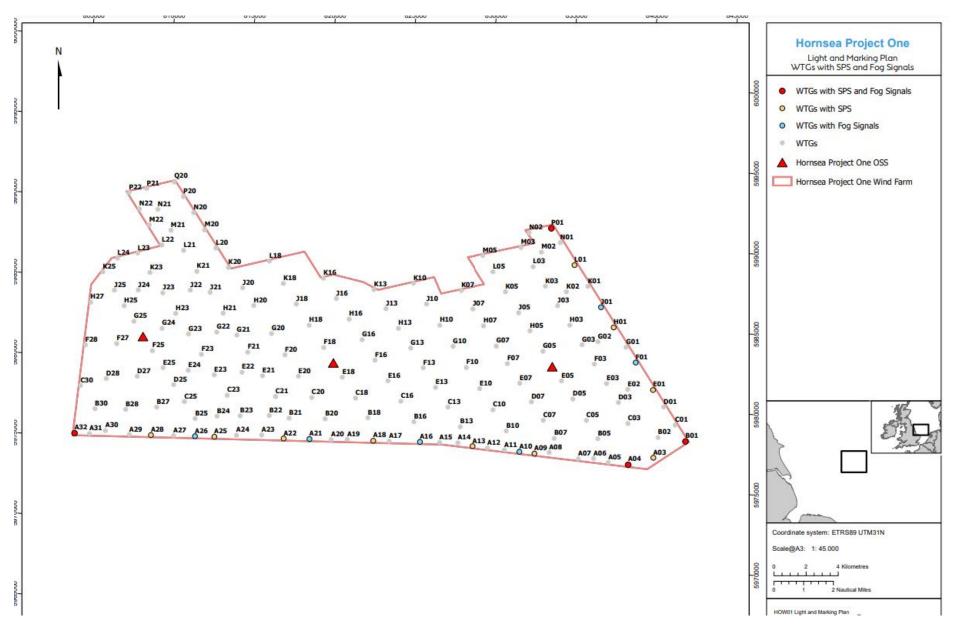
8.1 Lighting and Marking Status

The lighting and/ or navigational warning systems are currently operational. No 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	Х	
Q20	Х	Х
C30	Х	Х
H27	Х	Х
P22	Х	Х
L20		Х
K16		Х
K10		Х
M05		Х





8.2 Other Operations

Nothing planned.

8.2.1 Statutory Inspections Above Water

From the 22nd April the vessel Manor Venture will be on site completing WTG inspections, the scope is anticipated to take approximately 19 days, but the Vessel may remain within the Hornsea One and Hornsea Two windfarms for additional tasks

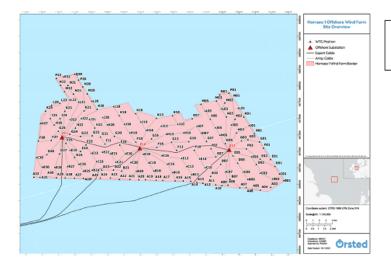
	General Information	Vessel Picture
Name	Manor Venture	
Flag	UK	and the second s
Year Built	2017	
MMSI	232007444	
Call Sign	MAW16	
	Vessel Contact Details	
Bridge		The second secon
Party Chief		
Email		and the second s

8.2.2 Cable Stabilisation campaign

Start Date: May 2023 Duration of work scope: 7 Months Description of Work: Cable stabilisation campaign by means of rock dumping at HOW01 Is this a licensed activity: Yes Safety zone required: 500m

	General Information	Vessel Picture
Name	Adhemar De Saint Venant	
Flag	Luxembourg	
Year Buil	2017	· · · · · · · · · · · · · · · · · · ·
MMSI	253351000	
Call Sign	LXUD	
Vessel Contact Details		
Bridge	+3250946017	
Party Chief	<u>captain@ad.jandenul.com</u>	
Email	<u>captain@ad.jandenul.com</u>	

	General Information	Vessel Picture
Name	Daniel Bernoulli	
Flag	Luxembourg	
Year Buil	2017	
MMSI	253350000	
Call Sign	LXUC	
	Vessel Contact Details	
Bridge	+3250946017	Lett Howard
Party Chief	<u>captain@bi.jandenul.com</u>	
Email	<u>captain@bi.jandenul.com</u>	



Cable stabilization will be carried out at all locations at HOW01 including Offshore Substations and RCS.



9 Hornsea Two – Notice to Mariners

9.1 Lighting and Marking Status

T29 fog signal is constantly sounding, this will be investigated at the earliest opportunity. (Will be inoperable as per dates below).

Due to OSS and RCS Maintenance, we expect the below

4x Fog Horns on the North West Park N35, T25, T29 and T33, will be inoperable from the 17th - 26th April 5x Fog Horns on the South West Park A36, A39, A42, E39 and J37, will be inoperable from the 22nd - 26th April

5x Fog Horns on the North East Park R01, S05, S11, S16 and T21, will be inoperable from the 22nd - 26th April

Dates are approx., based on UPS battery backup of 96hrs

All Marine Lanterns will be replaced with Temporary Marine Lanterns for the above duration.

9.2 Other Operations

9.2.1 TMO Offshore Substation and RCS works

Start date: 6th April 2023 for both SOVs Duration of work scope: up to 30 days excluding weather days for both SOVs

Description of work: Deep Cygnus to operate at HB-Z11 Offshore Substation at HOW02, transfer teams to and from the Substation.

	General Information	Vessel Picture
Name	Deep Cygnus	Branch Branch
Flag	Norway	
Year Built	2009	
MMSI	257205000	
Call Sign	LACV8	
	Vessel Contact Details	
Bridge		
Party Chief		
Email		- Aller - Aller



Description of work: Notus to operate at HB-Z01 RCS at HOW02, transfer teams to and from the Substation.

	General Information	Vessel Picture
Name	Notus	
Flag	Denmark	
Year Built	1999	
MMSI	219812000	
Call Sign	OXDR2	TINE TO SHOULD BE
	Vessel Contact Details	
Bridge		TIASON MACTIC
Party Chief		Children and
Email		VesselFinder

9.2.1 Below water inspections

The vessel Curtis Marshall is undertaking below water inspections at Westermost Rough, Hornsea 2, Racebank and Lincs windfarms. The inspections will be carried out by ROV and diving operations. Mariners are advised that a safe distance of 500m Is required whilst divers are in the water. Buoys will be placed in the water to identify whilst diving operations are underway.

The planned dates are shown below, however dates are subject to change -

Hornsea 2 – 3^{rd} April - 17^{th} April Westermost Rough – 17^{th} April to 7^{th} May Racebank – 7^{th} May to 27^{th} May Lincs – 27^{th} May to 10^{th} June

Locations

HOW02				
ID	WGS84 (Deg, decimal Minutes)			
	LONGITUDE	LATITUDE		
A35	1° 35′ 38.774″ E	53° 50′ 10.691″ N		
A37	1° 32′ 51.300″ E	53° 50′ 11.208″ N		
A39	1° 30′ 10.393″ E	53° 50′ 11.644″ N		
B34	1° 36′ 21.475″ E	53° 50′ 45.917″ N		
F31	1° 36′ 23.015″ E	53° 53′ 19.654″ N		
F36	1° 31′ 2.021″ E	53° 53′ 5.936″ N		
H31	1° 34′ 39.604″ E	53° 54′ 52.656″ N		
H37	1° 28′ 6.654″ E	53° 54′ 26.729″ N		



L33	1° 31′ 40.802″ E	53° 56′ 8.350″ N
M24	1° 40′ 45.114″ E	53° 56′ 34.784″ N
M31	1° 31′ 54.019″ E	53° 57′ 21.279″ N
N35	1° 27′ 15.289″ E	53° 57′ 42.582″ N
P13	1° 53′ 6.341″ E	53° 57′ 43.849″ N
P27	1° 35′ 11.471″ E	53° 58′ 44.648″ N
Q05	2° 0′ 9.715″ E	53° 58′ 7.107″ N
Q16	1° 49′ 32.934″ E	53° 58′ 41.824″ N
R20	1° 44′ 0.321″ E	53° 59′ 10.892″ N
S03	2° 1′ 46.296″ E	53° 58′ 43.592" N
S11	1° 53' 39.979" E	53° 59' 9.818" N
S30	1° 30' 8.867" E	54° 0' 1.305" N
Z11	001.630687°E	53.939408°N
Z01	000.932264°E	53.633372°N

General Information		Vessel Picture	
Name	Curtis Marshall	*	
Flag	UK		
Year Built	2015	A Real Provide A Real ProvideA Real ProvideA Real ProvideA Real ProvideA Real ProvideA Real Prov	
MMSI Number	235107219	· · · · · · · · · · · · · · · · · · ·	
Call Sign	SHWN3		
Vessel Contact Details			
Bridge			
Party Chief		C Vessel	
Email	info@bmarshallmarine.co.uk	Course Laurislast 768 × 512	



9.2.2 Statutory Inspections Above Water

From the 22nd April the vessel Manor Venture will be on site completing WTG inspections, the scope is anticipated to take approximately 19 days, but the Vessel may remain within the Hornsea One and Hornsea Two windfarms for additional tasks

General Information		Vessel Picture
Name	Manor Venture	
Flag	UK	and the second s
Year Built	2017	
MMSI	232007444	
Call Sign	MAW16	
Vessel Contact Details		
Bridge		
Party Chief		
Email		