

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: August 2023

Version: 3

Table of Contents

1	Introduction	3
1.1	Subsea Cables.....	4
1.2	Wind Farm Positional Data	4
2	Key Contacts.....	5
3	Notice to Mariners Summary:.....	6
4	Race Bank – Notice to Mariners	7
4.1	Lighting and Marking Status.....	7
4.2	Other Operations.....	7
4.2.1	Main Bearing Exchange	7
4.2.2	LEP Campaign	7
4.2.3	Structural Inspections Below Water	9
5	Westermost Rough – Notice to Mariners	10
5.1	Lighting and Marking Status.....	10
5.2	Other Operations.....	10
5.2.1	Blade LEP campaign.....	10
5.2.2	Structural Inspections Below Water	11
6	Lincs – Notice to Mariners.....	12
6.1	Lighting and Marking Status.....	12
6.2	Other Operations.....	12
6.2.1	WTG Oil exchange.....	12
6.2.2	Drill Arising Benthic Monitoring	12
6.2.3	Structural Inspections Below Water	13
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.....	14
8.1	Lighting and Marking Status.....	14

8.2	Other Operations.....	17
8.2.1	Main Bearing Exchange	17
8.2.2	Blade Repair	17
9	Hornsea Two – Notice to Mariners.....	18
9.1	Lighting and Marking Status.....	18
9.2	Other Operations.....	18
9.2.1	Structural Inspections Below Water	18

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: <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:

Lee Thompson

Email: LEETH@orsted.com

3 Notice to Mariners Summary:

Site	Lighting and Marking Status	Survey	Jack-Up Vessel	Other Works
Race Bank	OK	None	Yes	Main Bearing Exchange ^{*°} Blade LEP ^{****} Structural Inspections ^{**}
Westernmost Rough	D01- Marine Lantern Extinguished	None	Yes	Blade LEP ^{****} , Main Bearing Exchange ^{*°} Structural Inspections ^{**}
Lincs	LS33 Marine Lantern Extinguished	None	None	Oil exchange Drill Arising Benthic Monitoring ^{****} Structural Inspections ^{**}
Gunfleet Sands	OK	None	None	Blade LEP ^{***}
Hornsea One	OK	Yes	Yes	Main Bearing Exchange ^{*°} USV Operations Blade Repair ^{****}
Hornsea Two	T29 – Fog signal constantly sounding	None	None	Structural Inspections ^{**}

- * 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


4.2.1 Main Bearing Exchange

Main Bearing Exchange Campaign on Racebank at locations D02, R01 & J05. Campaign is estimated to start Mid-September for 20 days approx. A 500m exclusion zone will be required whilst the Jack Up vessel is in position at the turbines and whilst jacking up and down. There will also be a CTV supporting operations.

General Information		Vessel Picture
Name	Wind Enterprise	
Flag	Denmark	
Year Built	2011	
MMSI Number	219370000	
Call Sign	OZTU2	
Vessel Contact Details		
Bridge	+45 29 81 58 85	
Party Chief		
Email	Master.windenterprise@ziton.eu	

4.2.2 LEP Campaign

In mid-August, there will be a LEP campaign we anticipate lasting 23 days. The scope involves rope access technicians. When the technicians are on the ropes, we request a 200m exclusion zone.

General Information		Vessel Picture
Name	Iceni Defiant	
Flag	UK	
Year Built	2010	
MMSI	235090838	
Call Sign	2FFO6	
Vessel Contact Details		
Bridge	07719 423 772	
Party Chief		
Email	Defiant@turnericensi.com	



WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A05	0.771711	53.30361
D02	0.811108	53.328453
D03	0.82307	53.325066
D04	0.814847	53.318757
D06	0.812835	53.301449
D07	0.807669	53.284227
F05	0.832343	53.259126
G01	0.844258	53.289039
G06	0.83976	53.246736
H02	0.856459	53.277301
K06	0.877683	53.235235
K07	0.879027	53.22714
L01	0.891077	53.274552
L03	0.893878	53.254232
R01	0.924704	53.25542

4.2.3 Structural Inspections Below Water

Structural Inspection Below Water, using ROV from Jif Marlin on DP mode. Expected to start in August and will work between WMR, ROW, HOW01 and LINCS windfarm for circa 35days

General Information		Vessel Picture
Name	Jif Marlin	
Flag	France	
Year Built	2017	
MMSI Number	228093900	
Call Sign	FJYT	
Vessel Contact Details		
Bridge	+33 6 99 73 04 11	
Party Chief	+44 (0) 776 949 3413	
Email	JifMarlin@jifmar.net	

Coordinates



Race Bank		
ID	Latitude	Longitude
A06	53.2960577	0.771226337
B04	53.3042232	0.784463982
B05	53.296783	0.783038112
B07	53.2817815	0.781874679
C06	53.2960883	0.796057968
D05	53.3095906	0.813664252
D06	53.3014472	0.812829469
E09	53.2482625	0.815637547
G04	53.263513	0.843871559
G06	53.2467329	0.83976746
J04	53.2465649	0.865565971
M03	53.2510328	0.907075612
N02	53.2414367	0.912642856

5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status

D01 Marine lantern is currently extinguished. We will investigate and repair this as soon as possible.



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. CTV's will support the remainder of the project. The work scope involves rope access technicians. When the technicians are on the ropes, we request 200m exclusion zone.

The CF Explorer will leave the project around the 9th August. After this the CTV's Icen Courage & Seacat Intrepid will join the project until completion.

Vessel Information

General Information		Vessel Picture
Name	Iceni Defiant	
Flag	UK	
Year Built	2010	
MMSI Number	235090838	
Call Sign	2FFO6	
Vessel Contact Details		
Bridge	+44 7809 727 397	
Email	defiant@turnericensi.com	
General Information		Vessel Picture
Name	Seacat Intrepid	
Flag	UK	
Year Built	2014	
MMSI	235107284	
Call Sign	2HWU6	
Vessel Contact Details		
Bridge	+44 7476269397	
Party Chief		
Email	intrepid@seacatservices.co.uk	

General Information		Vessel Picture
Name	Iceni Courage	
Flag	UK	
Year Built	2011 – refit in 2020	
MMSI Number	235085499	
Call Sign	2EIU7	
Vessel Contact Details		
Bridge	+44 7715677293	
Party Chief		
Email	courage@turnericeni.com	

5.2.2 Structural Inspections Below Water

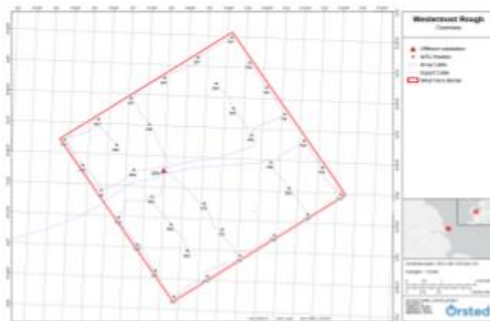
Structural Inspection Below Water, using ROV from Jif Marlin on DP mode. Expected to start in August and will work between WMR, ROW, HOW01 and LINCS windfarm for circa 35days

General Information		Vessel Picture
Name	Jif Marlin	
Flag	France	
Year Built	2017	
MMSI Number	228093900	
Call Sign	FJYT	
Vessel Contact Details		
Bridge	+33 6 99 73 04 11	
Party Chief	+44 (0) 776 949 3413	
Email	JifMarlin@jifmar.net	

Depending on the work scope you may need to provide a Map & Coordinates showing location of work.

GIS Map example

Coordinates



Westernmost Rough			
ID	Type	Latitude	Longitude
A03	WTG	0.122976446	53.78401631
C02	WTG	0.159503799	53.78903062
D07	WTG	0.131667762	53.82974017
F07	WTG	0.160138699	53.84152714
DS4	B' Reef	0.101373	53.789364
DS8	B' Reef	0.133711	53.819476
DS15	B' Reef	0.163259	53.837817
DS17	B' Reef	0.188962	53.817455
DS18	B' Reef	0.150371	53.78001

6 Lincs – Notice to Mariners

6.1 Lighting and Marking Status


LS33 Marine lantern Extinguished. We will investigate and repair this as soon as possible.

6.2 Other Operations

6.2.1 WTG Oil exchange


On the 1st May, the vessel MMS Superior 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	MMS Superior	 <p>© Frank-Peter Mecklenbeck</p>
Flag	UK	
Year Built	2019	
MMSI Number	232024742	
Call Sign	MGFO9	
Vessel Contact Details		
Bridge	07471752805	
Party Chief		
Email	mmssuperior@mms-offshore.co.uk	

6.2.2 Drill Arising Benthic Monitoring

On 31st July survey vessel “Seren Las” will be conducting Drill Arising Benthic Monitoring survey works for four days. These works will involve multiple grab samples and underwater video / photography at each location. These works will be conducted close to the four below mentioned turbines. Mariners are requested to remain a distance of 250m from “Seren Las” when it is observed undertaking this survey work due to the survey equipment that will be in the water. The equipment will be lowered using a frame winch on the aft of the vessel.

General Information		Vessel Picture
Name	Seren Las	
Flag		
Year Built		
MMSI Number	235087047	
Call Sign	MDAH2	
Vessel Contact Details		
Bridge		

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
LS62	53° 11.5050'N	000° 31.0780'E
LS61	53° 11.8066'N	000° 30.9647'E
LS43	53° 11.4120'N	000° 30.2610'E
LS44	53° 11.0342'N	000° 30.2552'E




Figure 2 Actual grab stations and DDV transects sampled during the LIC year 6 post-construction DMBs benthic monitoring survey 2018.

6.2.3 Structural Inspections Below Water

Structural Inspection Below Water, using ROV from Jif Marlin on DP mode. Expected to start in August and will work between WMR, ROW, HOW01 and LINCS windfarm for circa 35days

General Information		Vessel Picture
Name	Jif Marlin	
Flag	France	
Year Built	2017	
MMSI Number	228093900	
Call Sign	FJYT	
Vessel Contact Details		
Bridge	+33 6 99 73 04 11	
Party Chief	+44 (0) 776 949 3413	
Email	JifMarlin@jifmar.net	

Coordinates



Lincs			
ID	Type	Latitude	Longitude
LS51 (A51)	WTG	53° 08.365	00° 30.183
LS44 (B44)	WTG	53° 11.016	00° 30.226
LS66 (B66)	WTG	53° 10.117	00° 31.047
LS38 (D38)	WTG	53° 13.254	00° 29.814
LS54 (D54)	WTG	53° 14.170	00° 30.293
LS03 (E03)	WTG	53° 13.772	00° 27.866
LS18 (E18)	WTG	53° 13.511	00° 28.840
LS08 (F08)	WTG	53° 11.532	00° 28.604
LS20 (F20)	WTG	53° 12.786	00° 29.145
LS09 (G09)	WTG	53° 10.992	00° 28.576
LS26 (G26)	WTG	53° 10.192	00° 29.377
LS74 (H74)	WTG	53° 07.993	00° 28.738
LS75 (H75)	WTG	53° 07.726	00° 28.754

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

7.3 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_TO_01-UnidentifiedOther	F08-F09	13.4	1° 17.383' E	51° 44.721' N	1° 17.396' E	51° 44.723' N
GFS_MBES_TO_02-CableExposure	F08-F09	790.93	1° 16.787' E	51° 44.486' N	1° 17.376' E	51° 44.718' N
GFS_MBES_TO_03-CableExposure	F07-F08	533.19	1° 16.562' E	51° 44.401' N	1° 16.726' E	51° 44.466' N
GFS_MBES_TO_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

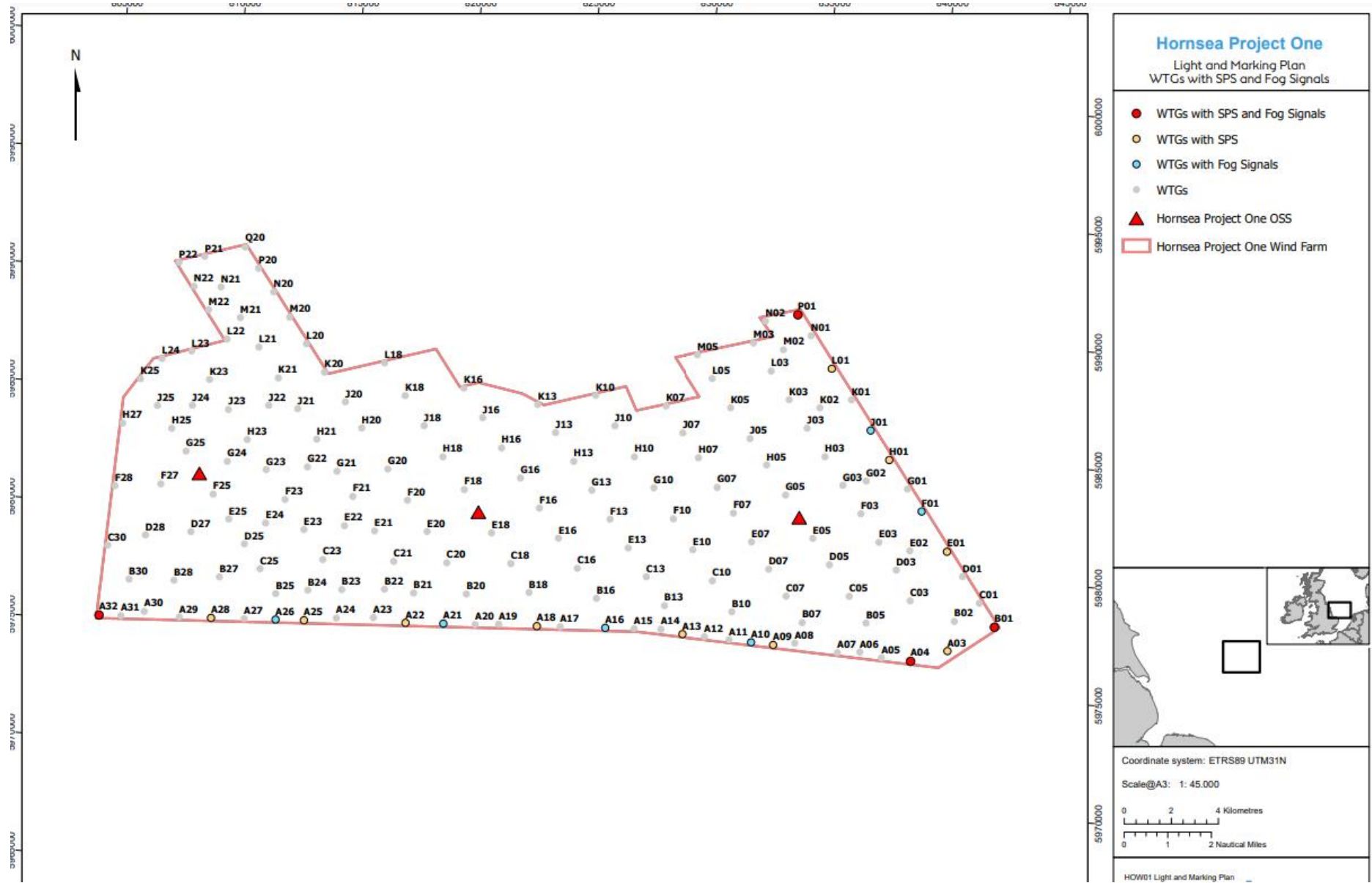
8.1 Lighting and Marking Status

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	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

8.2.1 Main Bearing Exchange

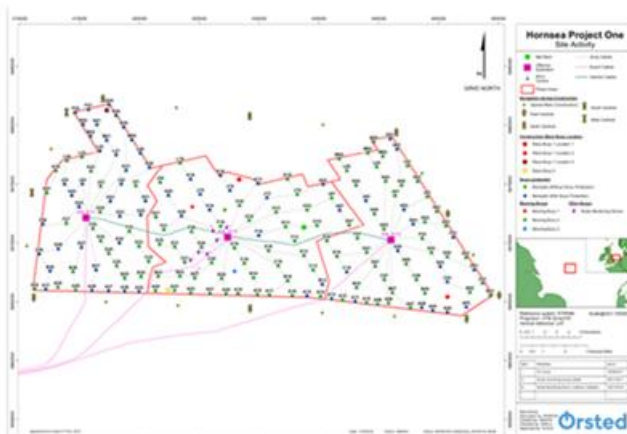
Main Bearing Exchange Campaign on Hornsea 01 at C23, M22 & A22. Campaign is estimated to start Early October for 20 days approx. A 500m exclusion zone will be required whilst the Jack Up vessel is in position at the turbines and whilst jacking up and down.

General Information		Vessel Picture
Name	Wind Enterprise	
Flag	Denmark	
Year Built	2011	
MMSI Number	219370000	
Call Sign	OZTU2	
Vessel Contact Details		
Bridge	+45 29 81 58 85	
Email	Master.windenterprise@ziton.eu	

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A22	53° 50' 5.059" N	01° 50' 57.533 E
C23	53° 51' 30.170" N	01° 47' 42.830 E
M22	53° 57' 11.249" N	01° 43' 6.483 E

8.2.2 Blade Repair

Blade repairs campaign on Hornsea 01 at A23, B16, K03. Campaign is expected to last between 7-14 Days with a 200m safety zone required while teams are working on the locations. The Site CTV MCS Swath 2 will support the works



WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
A23	53°50'11.478"N	01°49'42.519"E
B16	53°50'42.731"N	01°58'20.716"E
K03	53°55'19.794"N	02°5'42.840"E

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.

9.2 Other Operations

9.2.1 Structural Inspections Below Water

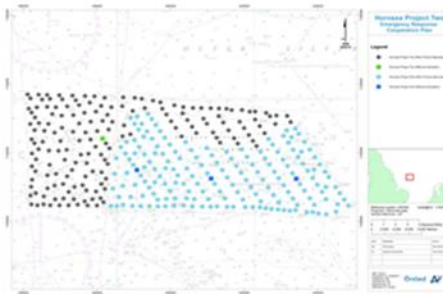
Structural Inspection Below Water, using ROV from Jif Marlin on DP mode. Expected to start in August and will work between WMR, ROW, HOW01 and LINCS windfarm for circa 35days

General Information		Vessel Picture
Name	Jif Marlin	
Flag	France	
Year Built	2017	
MMSI Number	228093900	
Call Sign	FJYT	
Vessel Contact Details		
Bridge	+33 6 99 73 04 11	
Party Chief	+44 (0) 776 949 3413	
Email	JifMarlin@jifmar.net	

Depending on the work scope you may need to provide a Map & Coordinates showing location of work.

GIS Map example

Coordinates



Hornsea			
ID	Type	Longitude	Latitude
H31	WTG	001° 34' 39.577" E	53° 54' 52.637" N
P13	WTG	001° 53' 6.314" E	53° 57' 43.830" N
OSS1	OSS	001° 37' 50.474" E	53° 56' 21.869" N
RCS1	RCS	000° 55' 56.151" E	53° 38' 0.138" N