

Ørsted - East Coast Operational Assets

Notice to Mariners

Period of Notice: July 2021

Version: Revision 6

Table of Contents

1	Introduction	4
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	Piggyback rectification work	7
4.2.2	Wave Buoy service	8
4.2.3	Cable Bandage Solutions	9
4.2.4	Above Water Inspections	10
4.2.5	Internal Blade Inspections	10
5	Westermøst Rough – Notice to Mariners	11
5.1	Lighting and Marking Status	11
5.2	Other Operations	11
5.2.1	Blade Inspection	11
5.2.2	Emergent Bathymetric Survey	12
6	Lincs – Notice to Mariners	13
6.1	Lighting and Marking Status	13
6.2	Other Operations	13
6.2.1	Blade repair	13
7	Gunfleet Sands – Notice to Mariners	15
7.1	Lighting and Marking Status	15
7.2	Other Operations	15
7.2.1	Seabed survey	15
7.2.2	Internal corrosion protection	16
7.2.3	Cable exposure	17

8	Hornsea One – Notice to Mariners.....	18
8.1	Lighting and Marking Status.....	18
8.2	Other Operation	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
- 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: <http://www.kis->

orca.eu/downloads#.XWUTQUxFwjZ. 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	None	None	Piggyback campaign, Wave buoy service, Cable Bandage Solutions** Above Water Inspections Internal Blade Inspections
Westermose Rough	OK	None	None	Blade repair*** Emergent Bathymetric Survey
Lincs	OK	None	None	Blade repair***
Gunfleet Sands	A01 Foghorn inactive	Yes	None	Corrosion campaign
Hornsea One	OK	None	None	Wave buoy service

* Formal 500m safety zone in place

° Licensable activity

** 500m safety distance requested

*** 200m 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 Piggyback rectification work

On the 10th June the Eden Rose will be on site to conduct some WTG internal repairs. The scope is expected to last until mid-August and will be across the full wind farm.


Vessel information

General Information		Vessel Picture
Name	Eden Rose	
Flag	UK	
Year Built	2012	
MMSI Number	235092732	
Call Sign	2FNN5	
Vessel Contact Details		
Bridge	Master (TBC)	
Party Chief	07852125057	
Email	edenrose@tidal-transit.com	

4.2.2 Wave Buoy service

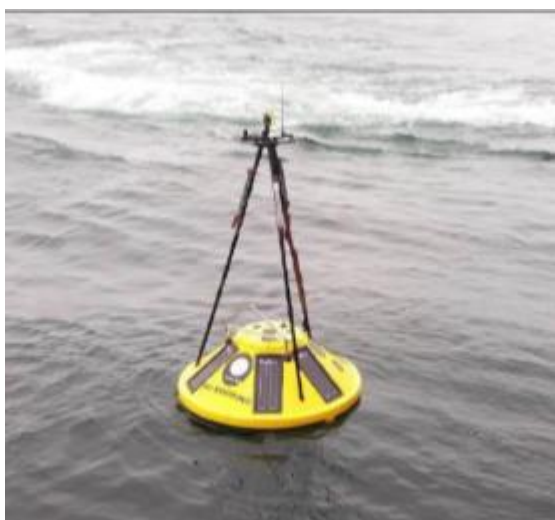
We will undertake an offshore service of a Measurement Buoy. Mariners should note that the service of the Measurement Buoy is scheduled for 21st to 24th July (weather permitting) and service works should last 6 hours. An example image of a Measurement Buoy is shown in the figure below as well as the vessel details.

Vessel information

General Information		Vessel Picture
Name	AFON LAS	
Flag	UK	
Year Built	2010	
MMSI Number	235115261	
Call Sign	2JEM8	
Vessel Contact Details		
Bridge	+44 7875 941 072	
Party Chief		
Email	afonlas@holyhead.co.uk	

Location - ROW: 53° 14.320' N, 000° 54.007' E

MEASUREMENT BUOY



4.2.3 Cable Bandage Solutions

Start date: 7th July 2021

Duration of work scope: Expected 6 weeks

Description of work: Ørsted will be performing diving works on cable ends, repairing the cable protection system at a number of selected WTG positions on ROW. During nights ROV inspections will be performed on all WTG positions

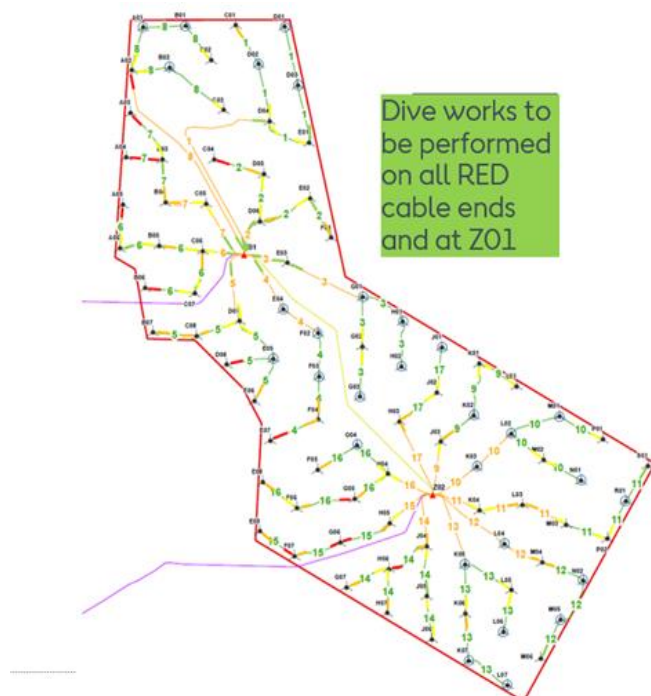
Is this a licensed activity: Yes – Consent has been obtained with the MMO

Safety zone required. During dive operations a 500m safetyzone shall apply (approx 2 x 1 hrs per day)

The Eden Rose will support the works as CTV between Piggyback Campaign.

Vessel information

Name	HBC Achiever
Flag	DK
Year Built	2014
MMSI Number	219305000
Call Sign	OWMH2
Vessel Contact Details	
Bridge	+45 28 56 47 99 / +45 82 13 10 43
Party Chief	
Email	achieverbridge@hbc-tec.dk




WTG ID	Degrees, Decimal Minutes	
	Easting (ETRS89 UTM31N)	Northing (ETRS89 UTM31N)
A02	351700,00	5910926,00
A03	351675,00	5910116,00
A04	351586,00	5909271,00
A05	351521,00	5908361,00
B03	352310,00	5909221,00
B06	351967,00	5906765,00
C04	353341,00	5909222,00
D08	353590,00	5905297,00
E07	354466,00	5903852,00
F07	354946,00	5901636,00
G05	356151,00	5902731,00
G06	355863,00	5901896,00
H06	356829,00	5901396,00
Z01	353944,00	5907400,00

4.2.4 Above Water Inspections

Above water inspection campaign due to start 3rd July for approx 2 months, teams will carry out TP and Internal inspections on the basement of all WTG and will be supported by the NOS Maker.


Vessel information

General Information		Vessel Picture
Name	Nos Maker	
Flag	Denmark	
Year Built		
MMSI Number	219026749	
Call Sign	OZJD2	
Vessel Contact Details		
Bridge	+46 738 62 76 02	
Party Chief		
Email	maker@n-o-s.eu	

4.2.5 Internal Blade Inspections

The workscope is to complete internal Blade inspections across all locations on Racebank Wind farm, supported by the Rix Lion. The works will start around 8th July and last approx 2 months with all works being contain inside the WTG and no requirements for Safety Zones.

Vessel information

General Information		Vessel Picture
Name	Rix Lion	
Flag	UK	
Year Built	2014	
MMSI Number	235105282	
Call Sign	2HOH3	
Vessel Contact Details		
Bridge	07702 975599	
Party Chief		
Email	rix.lion@rix.co.uk	

5 Westermost Rough – Notice to Mariners

5.1 Lighting and Marking Status

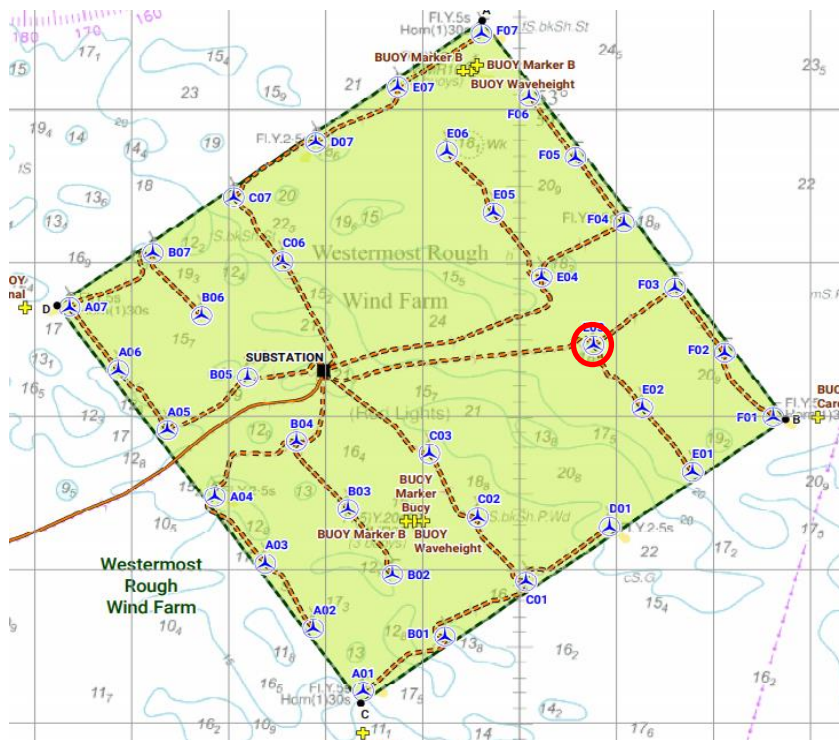
The lighting and/ or navigational warning systems are currently operational. No planned outages.

5.2 Other Operations

5.2.1 Blade Inspection

Current on hold UFN!

On the 8th July, we will be carrying out a blade inspection and collect a sample from E03 shown below. A 200m exclusion zone will be required for the duration of the works, it is anticipated at being completed by the 10th July. One of the site CTV's will be used for this work.




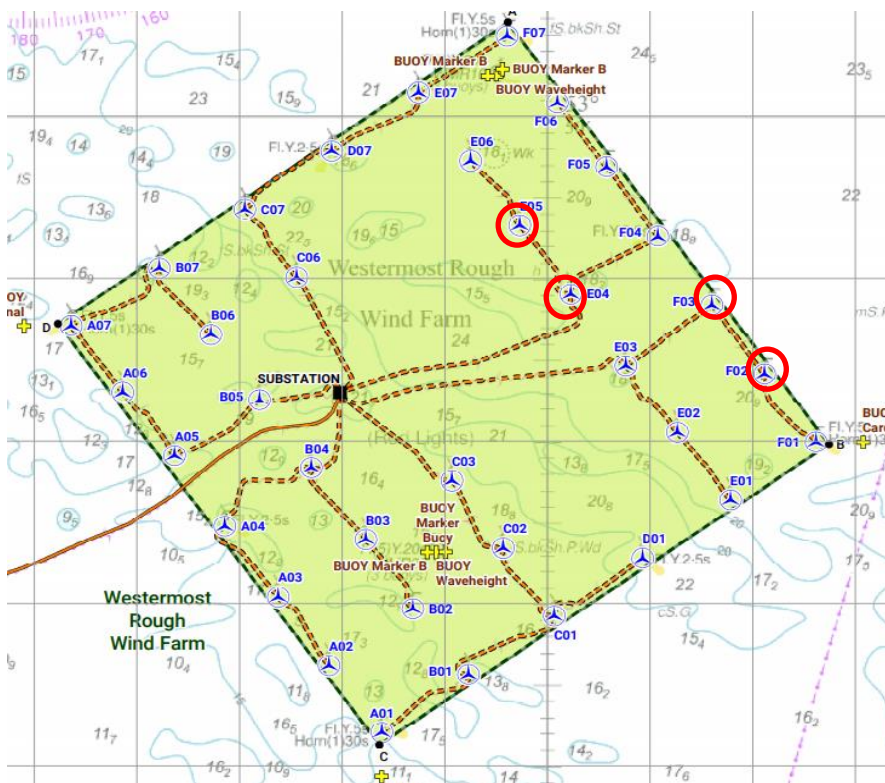
5.2.2 Emergent Bathymetric Survey

Start day 17/07/2021

Duration 1 Day

Bathymetric survey of WTB 50mx50m plus RPL +/- 25m

General Information		Vessel Picture
Name	MHO Grimsby	
Flag	Denmark	
Year Built	2016	
MMSI Number	219025992	
Call Sign	OYKR2	
Vessel Contact Details		
Bridge	mho-grimsby@mho-co.dk	
Party Chief	Ryan Knight	
Email	ryan.knight@spectrum-offshore.com	



WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
F02	53°48'24.768"N	000°12'6.762"E
F03	53°45'50.232"N	000°11'36.040"E
E04	53°48'54.234"N	000°10'13.692"E
E05	53°49'19.754"N	000°09'43.722"E

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 Blade repair

On the 10th July, we will be carrying out a blade repair on LS54 shown below. A 200m exclusion zone will be required for the duration of the works, it is anticipated at being completed by the 13th July. One of the site CTV's will be used for this work.



7 Gunfleet Sands – Notice to Mariners

7.1 Lighting and Marking Status

The Foghorn on A01 is currently inactive due to a power failure, the fault is been investigated and will be restored as soon as practicable. Due to the same fault we have also installed temporary navigation lights at A01, C01 & E01. All other lighting and/ or navigational warning systems are currently operational. No planned outages.

7.2 Other Operations

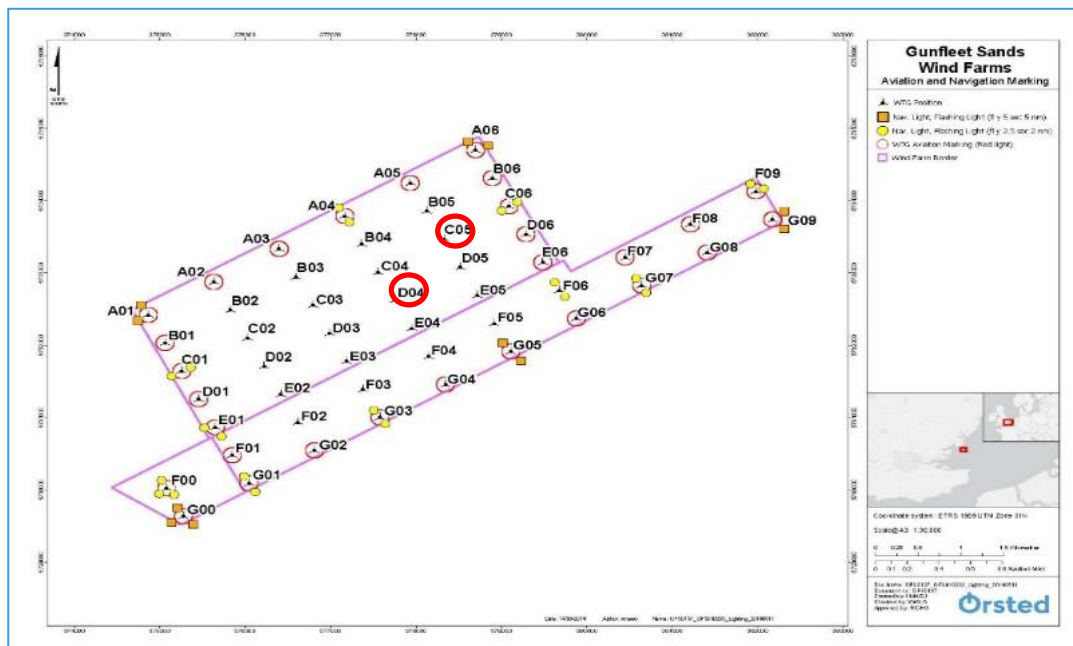
7.2.1 Seabed survey

On the 28th June the vessel Spectrum Nyquist will be conducting a 300m x 300m survey around locations C05 & D04 identified below.

Vessel Information

General Information		Vessel Picture
Name	Spectrum Nyquist	
Flag	UK	
Year Built	2010	
MMSI	232031312	
Call Sign	MIIG4	
Vessel Contact Details		
Bridge	+44 (0)7803 031728	
Party Chief	TBD	
Email	+44 (0)7803 031728	

WTG ID	Degrees, Decimal Minutes	
	Latitude	Longitude
C05	51°44.334'N	01°14.267'E
D04	51°43.876'N	01°13.790'E




7.2.2 Internal corrosion protection

We will conduct a corrosion protection campaign around the 12th July, all locations will be visited, and the campaign is anticipated to last around 6 weeks.

Vessel Information

General Information		Vessel Picture
Name	CWind Adventure	
Flag	UK	
Year Built	2013	
MMSI Number	235097139	
Call Sign	2GGG9	
Vessel Contact Details		
Bridge	07508452177	
Party Chief		
Email	Adventure@cwind.global	

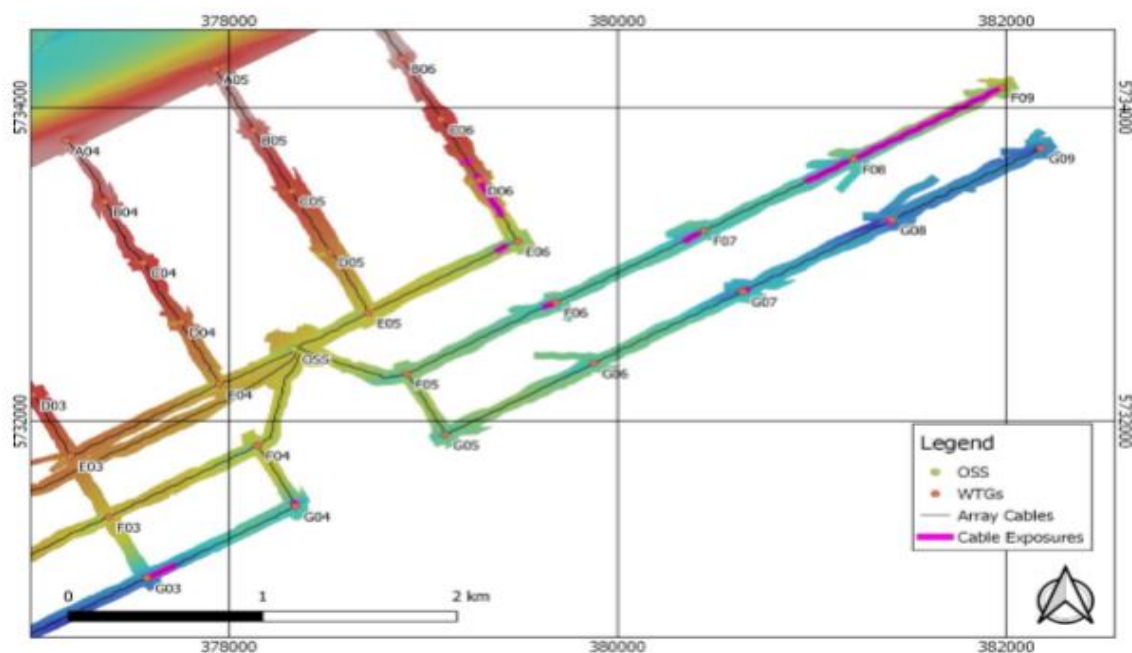
General Information		Vessel Picture
Name	CWind Challenger	
Flag	UK	
Year Built	2013	
MMSI Number	235099967	
Call Sign	2GRU4	
Vessel Contact Details		
Bridge	07944639671	
Party Chief		
Email	challenger@cwind.global	

7.2.3 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

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

8.2 Other Operation

We will undertake an offshore service of a Measurement Buoy. Mariners should note that the service of the Measurement Buoy is scheduled for 21st to 24th July (weather permitting) and service works should last 6 hours. An example image of a Measurement Buoy is shown in the figure below as well as the vessel details.

Vessel information

General Information		Vessel Picture
Name	AFON LAS	
Flag	UK	
Year Built	2010	
MMSI Number	235115261	
Call Sign	2JEM8	
Vessel Contact Details		
Bridge	+44 7875 941 072	
Party Chief		
Email	afonlas@holyhead.co.uk	

Location - HOW1: 53° 50.203' N, 001° 49.253' E

MEASUREMENT BUOY

