

Morecambe Offshore Wind Farm

Notice to Mariners

NtM Number	MOR001-FLO-NtM
Date of Issue	21/03/2024

1 Planned Activity

Please be advised that a geotechnical and unexploded ordnance (UXO) identification survey (geophysical) is due to be undertaken for the proposed Morecambe Offshore Wind Farm (OWF). The geophysical and geotechnical survey will be undertaken across the windfarm site, and a section of the export cable route, to provide an overview of ground conditions near surface and at depth across the site (Figure 1). Geophysical surveys will be also conducted to search for any UXO to reduce the risk of encountering UXO during the geotechnical investigations.

The survey will start on 1st April 2024 at the earliest, for approximately 17 weeks depending on weather conditions.

The scope of work involves a UXO survey at intrusive test sites to reduce the risk of encountering UXO during the geotechnical investigations. The scope of works for the Generation Assets includes deep geotechnical investigations:

- 35 Piezocone Penetration Test (PCPT) and 18 collocated sampling Boreholes at the potential WTG locations up to 50-60m depth

Shallow geotechnical investigation will include the following:

- Up to 24 vibrocores and CPTs to 5m depth below the seabed along the potential inter-array cable (IAC) route.
- 11 vibrocores and CPTs to 5m depth below the seabed along the ECRC

Survey operations will be conducted by the following vessels:

- Ocean Observer – Offshore UXO and Shallow Geotechnical survey
- Titan Discovery – Nearshore UXO survey
- Forth Warrior – Nearshore Shallow Geotechnical survey
- Ocean Vantage – Offshore Deep Geotechnical survey
- Horizon Geodiscovery – Offshore Deep Geotechnical survey

Vessel details are provided in section 4.

The offshore vessels; Ocean Observer, Ocean Vantage and Horizon Geodiscovery will operate on a 24hr basis while the nearshore vessels Titan Discovery and Forth Warrior will operate on a 12hr basis. All vessels will display appropriate day shapes (mast head signals visually indicating the status of a vessel to other vessels on navigable waters during daylight hours) and lights at all times during operations.

Exact coordinates of survey locations can be provided via the Fisheries Liaison Officer. Please contact the Fisheries Liaison Officer if you feel the survey affects you and you have not been previously contacted.

An Offshore Fisheries Liaison Officer will be onboard the Ocean Observer for the UXO and shallow geotechnical element, and the Horizon Geodiscovery or the Ocean Vantage for the deep geotechnical element to provide advice to the survey contractors and facilitate liaison with the fishing industry. The contact details are provided in section 5.

2 Geotechnical Co-ordinates and Chart of Survey Area

All positions quoted in WGS84: latitude /longitude (In Decimal Degrees Minutes)

Please see Figure 1 and the list of coordinates provided in Table 1.

All vessels are requested to maintain a safe distance from the survey vessel at all times.

3 Survey Dates

Survey Area: Morecambe Offshore Wind Farm	Estimated Start Date: 1 st April 2024	Estimated Completion Date: 24 th July 2024
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4 Vessel Details

Vessel Name:	Ocean Observer	Vessel LOA(m):	80.42
Vessel Function:	Offshore UXO and Shallow Geotechnical survey	MMSI:	232217000
		VHF Call Sign:	GHXX



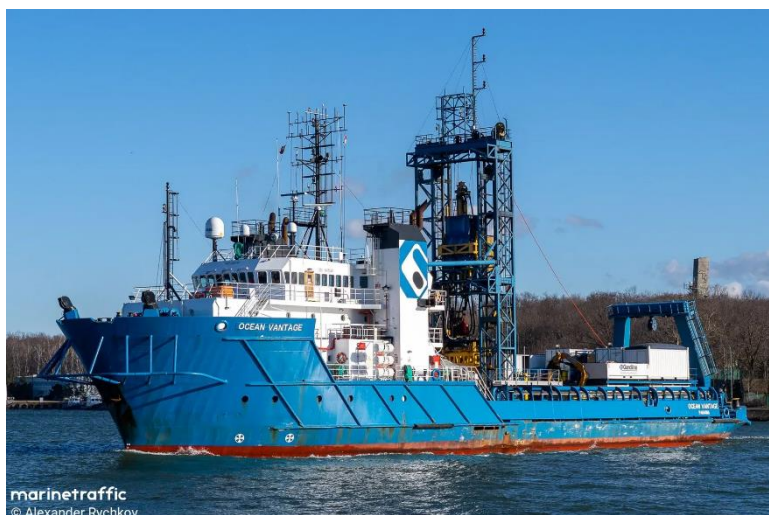
Vessel Name:	Titan Discovery	Vessel LOA(m):	13.0
Vessel Function:	Nearshore UXO survey	MMSI:	235102534
		VHF Call Sign:	2HCR3



Vessel Name:	Forth Warrior	Vessel LOA(m):	27.27
Vessel Function:	Nearshore Shallow Geotechnical survey	MMSI:	235116011
		VHF Call Sign:	2JHR8



Vessel Name:	Ocean Vantage	Vessel LOA(m):	68.0
Vessel Function:	Offshore Deep Geotechnical survey	MMSI:	351149000
		VHF Call Sign:	HP6188



Vessel Name:	Horizon Geodiscovery	Vessel LOA(m):	83.7
Vessel Function:	Offshore Deep Geotechnical survey	MMSI:	355847000
		VHF Call Sign:	3EXS8



5 Project Contact Details

Offshore Fisheries Liaison Officer:	Name:	John Hancock
	Email:	johngy386@gmail.com
	Telephone:	07828019592
	Vessel:	Ocean Observer (4 th April Onwards)

Offshore Fisheries Liaison Officer:	Name:	Vince Flowers
	Email:	vmflowers63@gmail.com
	Telephone:	07970556889
	Vessel:	Geotechnical vessel (4 th May Onwards)

Fisheries Liaison Officer:	Name:	Sophie Farenden
	Email:	Sophie.Farenden@brownmay.com
	Telephone:	07525 128344

Vessel Project Managers:	Name:	Ocean Observer
	Email:	opm@observer.gardline.com
	Telephone:	+44 (0) 2039 917 730

Vessel Project Managers:	Name:	Titan Discovery
	Email:	ewan.kimsey@titansurveys.com
	Telephone:	+44 (0) 7884 068447 +44 (0) 1656 673673
	Name:	Forth Warrior
	Email:	mvwarrior@briggsmarine.com
	Telephone:	TBC
	Name:	Horizon Geodiscovery
	Email:	opm@geodiscovery.gardline.com
	Telephone:	+44 (0) 20 3991 5327
	Name:	Ocean Vantage
	Email:	opm@vantage.gardline.com
	Telephone:	+44 (0) 1322 788 34

Table 1: Survey Area Coordinates.

Point	Latitude (WGS84)	Longitude (WGS84)
1	53° 50.184' N	3° 36.528' W
2	53° 49.695' N	3° 34.262' W
3	53° 49.752' N	3° 29.800' W
4	53° 45.280' N	3° 29.641' W
5	53° 45.013' N	3° 36.080' W
6	53° 46.766' N	3° 40.898' W
7	53° 50.608' N	3° 29.147' W
8	53° 49.878' N	3° 27.690' W
9	53° 45.389' N	3° 16.685' W
10	53° 45.632' N	3° 6.788' W
11	53° 46.592' N	3° 3.405' W
12	53° 45.603' N	3° 3.371' W
13	53° 44.531' N	3° 6.667' W
14	53° 44.048' N	3° 19.847' W
15	53° 44.667' N	3° 21.973' W
16	53° 46.230' N	3° 22.346' W
17	53° 47.605' N	3° 25.721' W
18	53° 47.597' N	3° 29.723' W

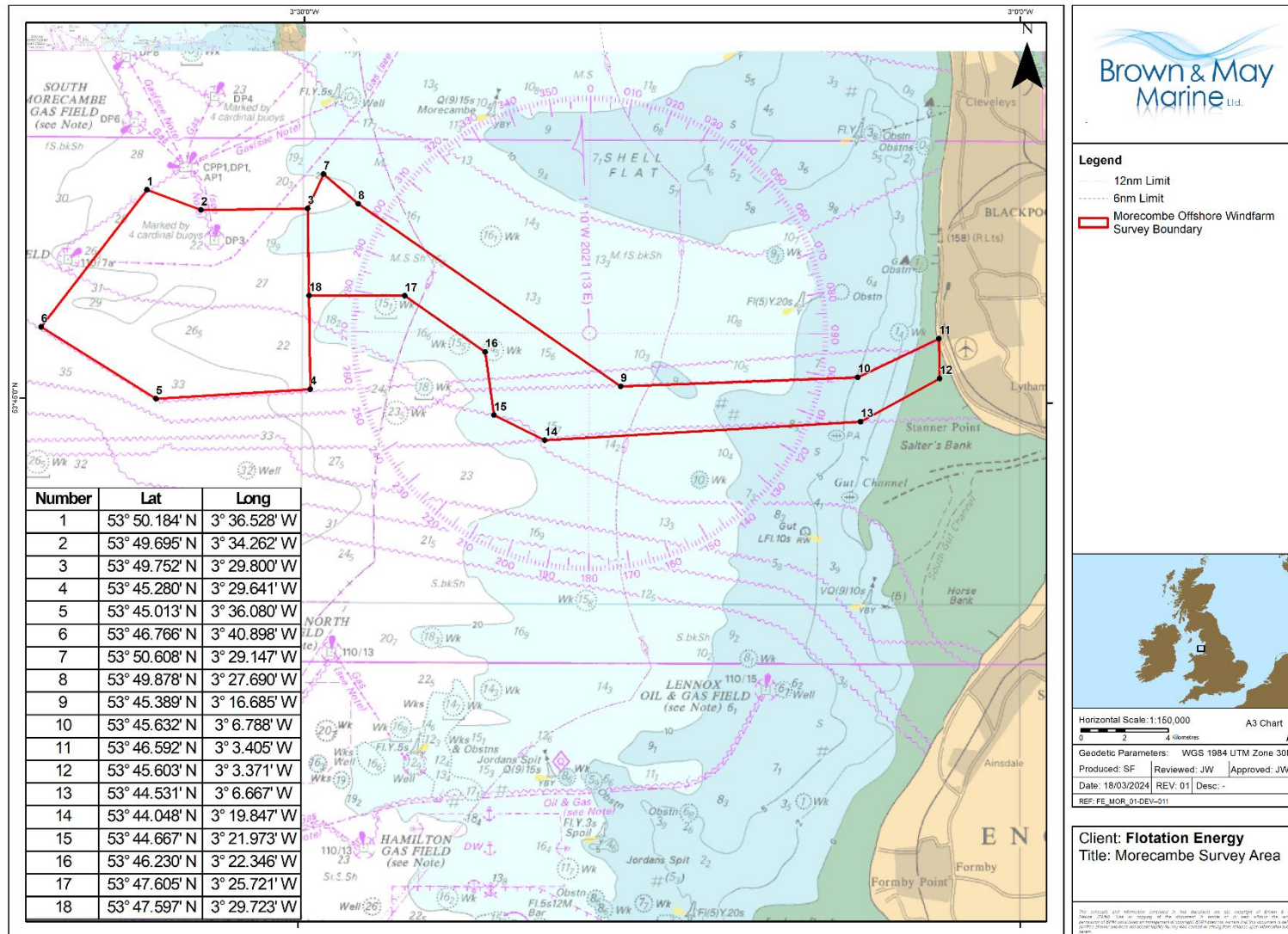


Figure 1: Survey Area