

# Notice to Mariners

## Nearshore Weather Buoy Installation– OEC – January 2023

Moray West Offshore Wind Farm

<b>Issue date</b>	24 January 2023
<b>Version</b>	01
<b>Activity</b>	Nearshore Weather Buoys Installation

## Revision History

<b>Version</b>	<b>Issue Date</b>	<b>Status</b>	<b>Updates</b>
01	24 January 2023	Final	First Issue

## 1. Introduction

This notice to mariners is to inform that Moray Offshore Windfarm (West) Limited (Moray West) will install a nearshore weather buoy on or around **2<sup>nd</sup> February 2023**. Details of the buoy and its location are provided below. A further NtM will be issued when the buoy is removed.

Once the nearshore weather buoy is installed during the initial HDD diving works by Isle of Jura, it will stay in position until the Offshore Export Cables (OEC) installation works at nearshore area are fully completed. Forecasted to be completed around **31 December 2023**, but the exact duration and the nearshore weather buoy recovery date will depend on overall project progress.

## 2. Nearshore Weather Buoy Installation Works

As a part of the HDD duct ends diving preparatory works at nearshore, the scope of work to include installation of the nearshore weather buoy that will be deployed by Isle of Jura in DP mode. The nearshore weather buoy details and proposed location/coordinates are provided below.

Figure 1. Zephyr Metocean buoy location and coordinates

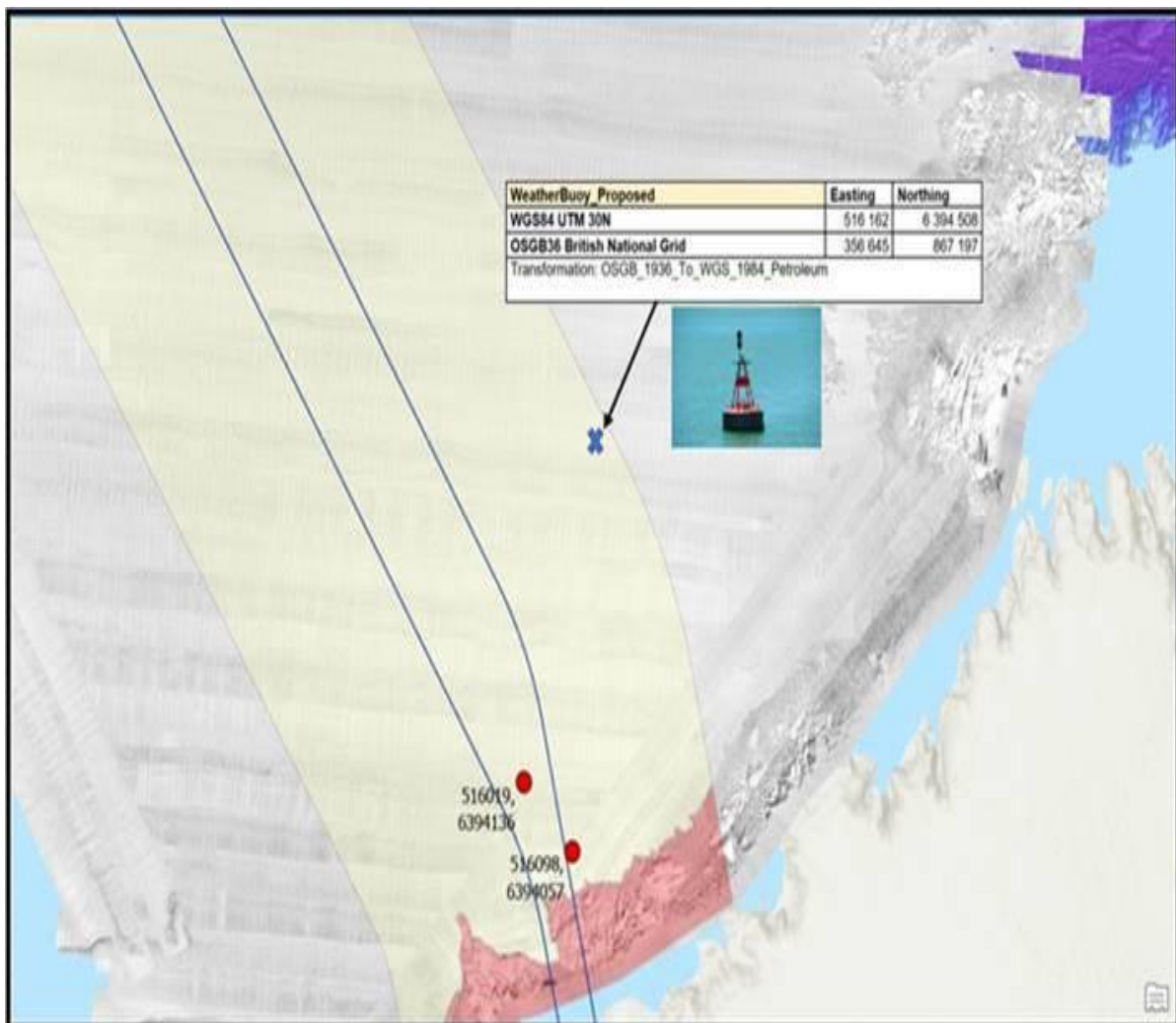


Table 1: Nearshore weather buoy installation coordinates

WGS84 UTM 30N E	WGS84 UTM 30N N	Lat (DMS)*	Long (DMS)*	OSGB36 E	OSGB36 N
516161.97	6394508.43	57° 41' 33.000" N	002° 43' 44.018" W	356645.34	867196.96

### 3. General Safety Advice

Please be aware that, during the HDD work activities, by virtue of its mode of operation the Dive support vessel Isle of Jura will be Restricted in her Ability to Manoeuvre (RAM) and will also display the flag ALPHA and appropriate day shapes while diving operations are taking place as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3). Masters of vessels are therefore requested to maintain their vessels and gears at a minimum safe passing distance from the vessel of 500 metres when it is undertaking work and showing the appropriate shapes and lights in accordance with COLREGs Rule 27 In order to not compromise the safety of the Isle of Jura and their crew, and the ability to undertake its contracted works.

### 4. Vessel Information

The nearshore weather buoy installation will be carried out by the diving vessel Isle of Jura.

Table 2. Isle of Jura General Information

Vessel Name	Isle of Jura
MMSI Number	232021966
Operating Company	Seafast Maritime Ltd
Vessel Call Sign	MFFY6
Vessel Mobile Phone Number	+881641499304
Vessel Email Address	<a href="mailto:jura@seafastltd.co.uk">jura@seafastltd.co.uk</a>


Figure 2. Isle of Jura



## 5. Nearshore Weather Buoy Information

The nearshore weather buoy details are provided below.

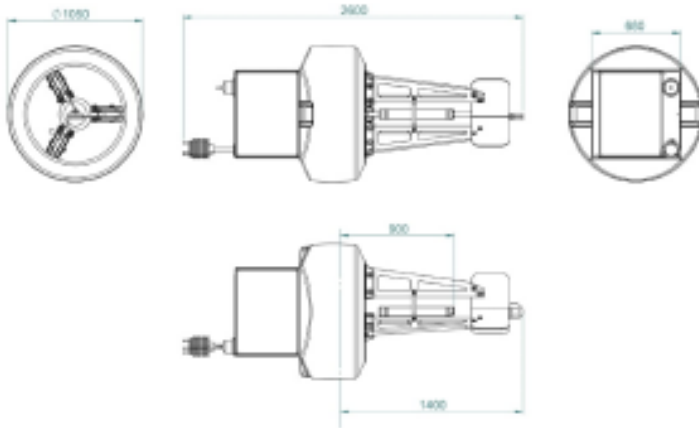
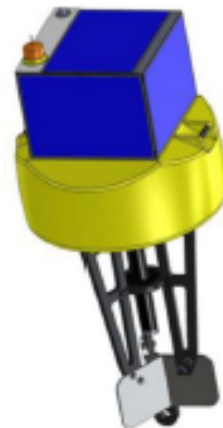
Figure 3. Weather Buoy – Zephyr Metocean buoy details



**NORTEKMED**  
Oceanographic experts

### Zephyr

Light Oceanographic Buoy

**Available parameters**

<p><b>Directional Waves</b></p> <hr/> <p>Internal motion sensor Range (Hs): ± 10 m Accuracy (Hs): 5 cm Resolution (Hs): 1 cm Range (Tp): 1.6 - 15 s Accuracy (Tp): 0.1 s Resolution (Tp): 0.01 s Range (Dir): 0 - 360° Accuracy (Dir): ± 5° Resolution (Dir): 0.1°</p> <p><b>Temperature / Salinity</b></p> <hr/> <p>CTD Seabird SBE37 or equivalent</p> <p><b>Turbidity</b></p> <hr/> <p>Wetlabs / Campbell Scientific</p> <p><b>Top marks</b></p> <hr/> <p>Flash light, Radar Reflector</p>	<p><b>Current profile</b></p> <hr/> <p>Nortek Aquadopp Pro/Ver Range (max): 40 m (depending on frequency) Range (vel): ± 10 m/s Accuracy (vel): 1% of the measured value / ± 0.5 cm/s Accuracy (dir): ± 2°</p> <p>Nortek Signature Range (max): 40 m (depending on frequency) Range (vel): 0 - 5 m/s Accuracy (vel): min 0.3% of the measured value / ± 0.3 cm/s Resolution (vel): 0.1 cm/s Accuracy (dir): ± 2°</p> <p><b>Real-time transmission</b></p> <hr/> <p>Radio, GPRS, Iridium</p> <p><b>Energy</b></p> <hr/> <p>Until 5 solar panels 41W</p>	<p><b>Meteorological parameters</b></p> <hr/> <p>Vaisala WXT530 Range (wind speed): 0 - 60 m/s Accuracy (wind speed): ± 0.3 m/s or ± 3% (from 0 to 35 m/s) / ± 5% (from 35 to 60 m/s) Range (wind dir): 0 - 360° Accuracy (wind dir): ± 3° Range (atm pressure): 600 - 1100 hPa Accuracy (atm pressure): ± 0.5 hPa Range (temperature): -52 - 60°C Accuracy (temperature): ± 0.3°C</p> <p><b>Data storage</b></p> <hr/> <p>Internal datalogger and/or real-time uplink</p> <p><b>Key advantages</b></p> <hr/> <p>Easy-deployment / light weight Real-time transmission 24/7 High reliability and accuracy Robustness Personalized</p>
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Figure 4. Weather Buoy – Zephyr Metocean buoy general synoptic and mooring arrangement

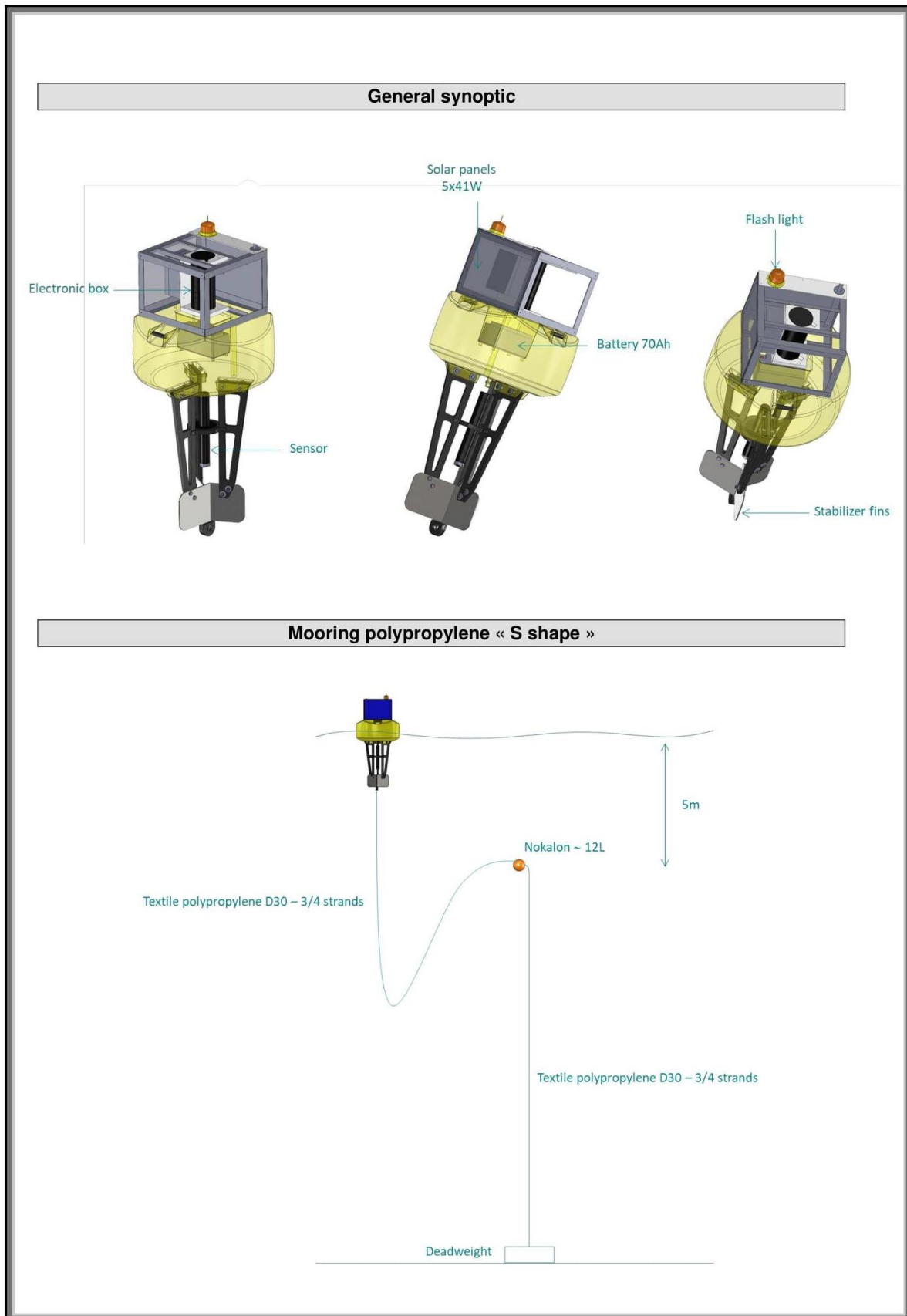


Figure 5. Weather Buoy – Zephyr Metocean buoy pictures

**Pictures of Zephyr buoy**



## 6. Developer Contacts Details

Enquiries regarding the contents of this Notice to Mariners should be directed to Moray West team (contact details below).

For fisheries related matters, please contact the Fisheries Manager or Moray West Company Fisheries Liaison Officer, using the contact details provided below:

### **Technical and Survey Planning**

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### **Consenting**

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### **Health, Safety and Other Matters**

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