Fraunhofer IWES

# NOTICE TO MARINERS

## Fraunhofer IWES Wind-Lidar-Buoy at NOAH Metmast: **EXTENSION of deployment**

Mariners are advised that Fraunhofer IWES has deploying a Floating Lidar System next to the NOAH (National Offshore Anemometry Hub), 3NM off Blyth on the 1st November 2024 (please refer the previous NtM *20241003 NtM IWES-WLB@NOAH 2024-25.pdf*). The Wind Lidar Buoy is measuring and providing meteorological data for offshore wind resource characterization. These measurements are to be compared with measurements from the NOAH Metmast.

- The ODAS buoy was deployed on the 1st November 2024
- We intended to collect it in August 2025.
- **The recovery is being delayed, and the ODAS buoy is likely to still at this position in September 2025**

## 1 Location of deployment

The Floating Lidar System will be deployed **within 300m from the NOAH Offshore Metmast**, 3NM East of the Port of Blyth.

ODSL (ORE Catapult Development Services Ltd) manages the NOAH Metmast and has obtained a Marine Licence from the Marine Management Organisation for this site and FLS deployments around the structure.

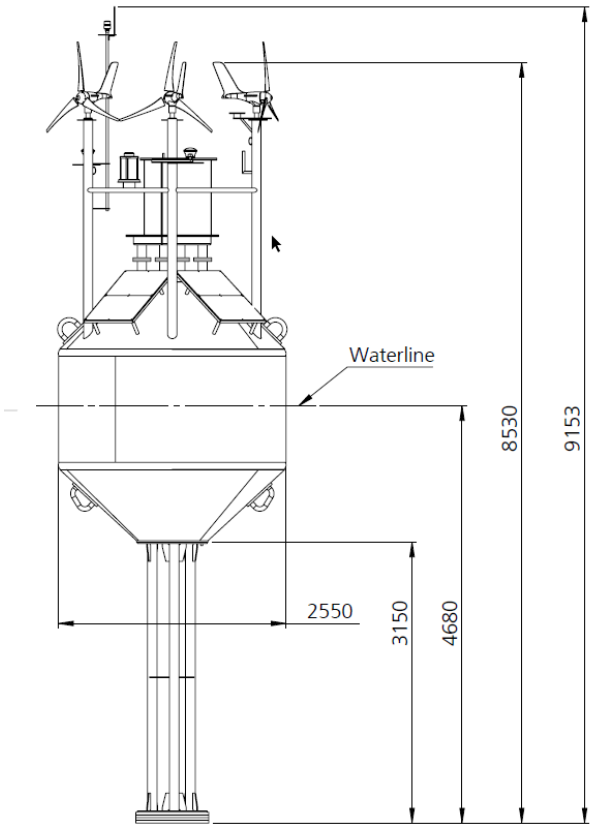
**Licence Number L/2020/00313/1** was issued on 21st September 2020 and expires on 19th July 2028. This document last updated 13th May 2024.

| **IWES Wind-Lidar-Buoy Anchoring position near NOAH structure** | | |
|---|---|---|
| **Geodetic Datum** | **Easting** | **Northing** |
| WGS84 / UTM zone 30N | 600502.869 | 6112168.537 |
| WGS84 - d° | -1.423072° | 55.145956° |
| WGS84 - dm | -1°25.38432' | 55°8.75737' |
| WGS84 - dms | -1°25'23.06" | 55°8'45.44" |


*IWES Wind-Lidar-Buoy as deployed next to NOAH platform, off the coast of Blyth.*

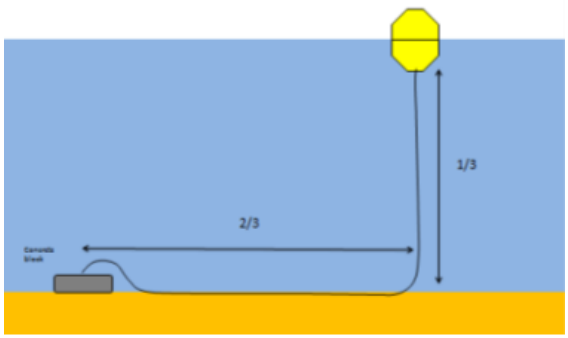
# 2 Floating Lidar System Specifications

## 2.1 Wind-Lidar-Buoys specification




| | |
|---|---|
| **Overall Height** | 9.2m |
| **Hull Diameter** | 2.55m |
| **Buoy Weight** | 5.6tons (without anchorage) |

## 2.2 Mooring specification

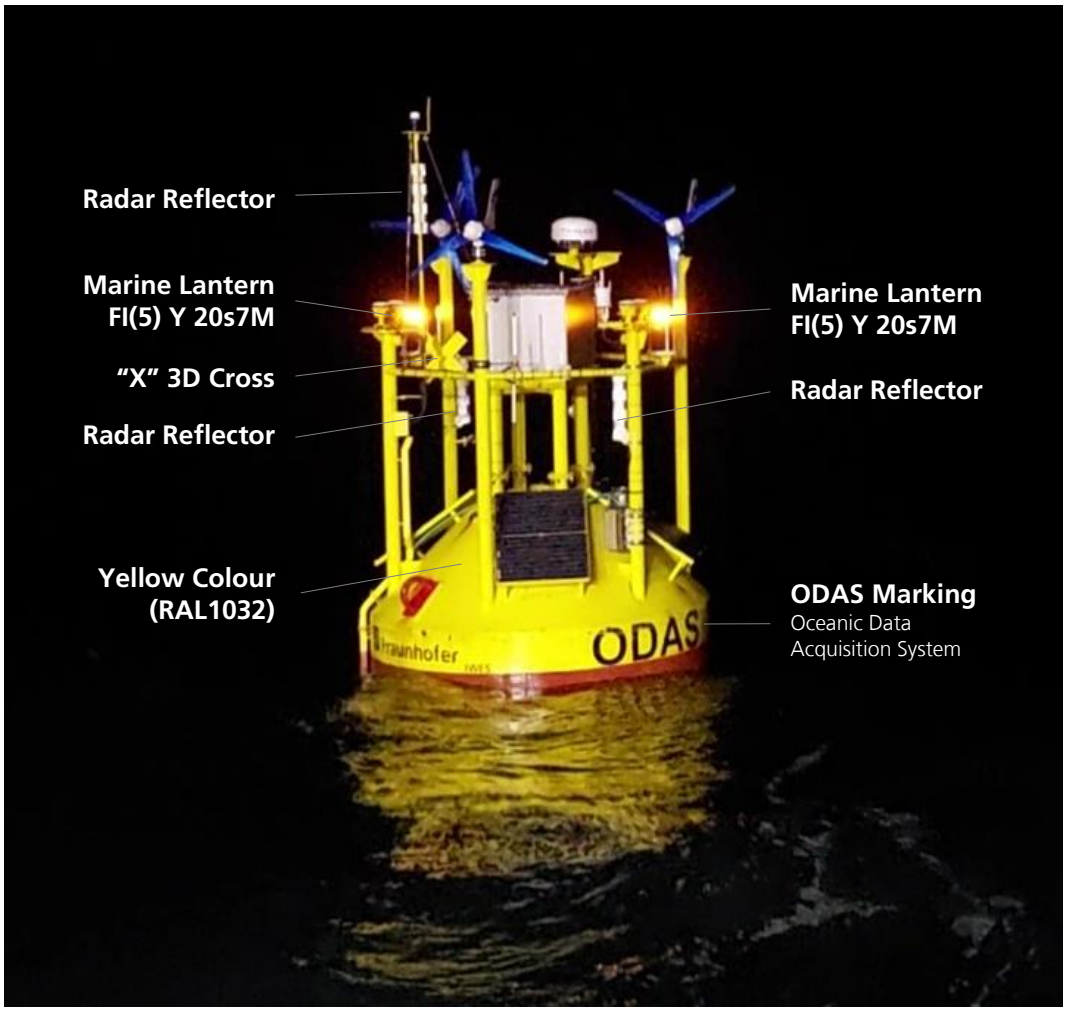



| | |
|---|---|
| **Chain length** | 100m |
| **Chain Dry Weight** | 11.6 kg/m |
| **Dimension of anchor (sinker)** | 1,2m x 1,2m x 1,2m |
| **Dry weight of concrete anchor** | approx. 4.7 tons |

## 2.3 Aid-to-Navigation & marking

The Fraunhofer IWES Wind Lidar Buoy was developed on the basis of a marking buoy used by the German authorities.

As shown below, the Lidar Buoy is identified as an Ocean Data Acquisition Systems (ODAS) special mark and is equipped with recommended IALA Aids to Navigations. Namely, it is painted Traffic-Yellow, it bears a "X" top mark and 360° Night lighting with Fl(5) Y 20s flashing pattern.




The Wind Lidar buoy is not equipped with any AIS for this deployment. The buoy position is tracked.

# 3 Deployment-Recovery vessel operations

The recovery will be undertaken by a single vessel, typically a multicat/tug, a buoy-laying or utility vessel.

| Example of possible operational vessels | | | |
|---|---|---|---|
| **Name** | **Call Sign** | **IMO** | **MMSI** |
| TEES GUARDIAN | 2IJH2 | 9759783 | 235110227 |
| ISLE OF JURA | MFFY6 | 9865697 | 232021966 |
| GREEN ISLE | 2IAV3 | 9707962 | 235108183 |
| FORTH CONSTRUCTOR | MOWV8 | 9994979 | 232053877 |

The recovery operations are expected to take up to a few hours.

# 4 Contact Details

## 4.1 Fraunhofer IWES

Owner and operator of the FLS Systems

| Name | Responsibility | Mobile | Mail |
|---|---|---|---|
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| Stephan Stone | Engineering Team Leader | +49 160 8991496 | Stephan.stone@iwes.fraunhofer.de |

## 4.2 ODSL

Owner and operator of the NOAH Metmast

| Name | Responsibility | Mobile | Mail |
|---|---|---|---|
| Jonathan Hughes | Validation Manager | +44 7872 502246 | jonathan.hughes@ore.catapult.org.uk |
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