

# NOTICE TO MARINERS

## 15.03.2017

### DUDGEON OFFSHORE WIND FARM CONSTRUCTION WORKS

**NOTICE IS HEREBY GIVEN** that construction activities are in progress at the Dudgeon Offshore Wind Farm.

Wind turbine generators will be installed until Q3 2017. All construction work is planned to be completed late 2017.

#### **Service Operation Vessel**

The ESVAGT NJORD will be performing preparation support for the operation of the wind farm and will be in regular transit between the Dudgeon site and Great Yarmouth.

#### **Wind Turbine Generator Installation**

The SEA CHALLENGER will perform installation of the wind turbine generators (WTG) from January 2017 until Q3-2017. WTG installation and commissioning work will be performed at the following locations in March – April:

Location	Easting	Northing	Lon DD	Lat DD	Depth LAT [m]
Sub-Station	391 870	5 902 955	1,378776	53,264808	-21,1
L01	391 174	5 901 522	1,368835	53,251789	-21,0
L02	391 122	5 900 148	1,368526	53,239433	-19,9
L03	391 760	5 899 631	1,378257	53,234918	-20,2
L04	392 399	5 899 114	1,388002	53,230402	-21,0
L05	393 038	5 898 596	1,397745	53,225877	-20,6
K01	392 045	5 902 246	1,381639	53,258473	-21,5
K02	391 907	5 900 928	1,380019	53,246602	-21,2
K03	392 640	5 900 334	1,391200	53,241413	-20,8
K04	393 373	5 899 739	1,402378	53,236214	-21,0
K05	393 676	5 898 079	1,407470	53,221359	-21,8
T01	392 212	5 903 533	1,383706	53,270071	-21,5
T02	392 948	5 902 936	1,394938	53,264856	-22,1
T03	394 241	5 900 466	1,415137	53,242920	-21,8
T04	394 974	5 899 873	1,426312	53,237737	-22,3
T05	394 840	5 898 551	1,424742	53,225832	-21,2
J01	392 777	5 901 653	1,392808	53,253293	-23,1

Location	Easting	Northing	Lon DD	Lat DD	Depth LAT [m]
J02	393 509	5 901 060	1,403974	53,248112	-22,5
J03	394 107	5 899 145	1,413569	53,231024	-21,7
J04	394 315	5 897 562	1,417208	53,216841	-22,3
J05	394 954	5 897 045	1,426945	53,212322	-21,2
F01	392 353	5 904 837	1,385377	53,281817	-21,7
F02	393 254	5 905 526	1,398654	53,288190	-23,2
F03	392 649	5 906 016	1,389417	53,292470	-22,8
F04	392 044	5 906 506	1,380177	53,296750	-22,4
F05	391 439	5 906 996	1,370936	53,301030	-22,0
F06	390 834	5 907 486	1,361693	53,305308	-22,3
E01	391 477	5 904 129	1,372486	53,275276	-22,2
E02	391 619	5 905 431	1,374170	53,287004	-22,4
E03	390 886	5 906 025	1,362975	53,292191	-20,7
E04	390 153	5 906 619	1,351778	53,297377	-20,6
E05	390 229	5 907 976	1,352448	53,309586	-21,5
E06	389 624	5 908 466	1,343201	53,313863	-21,1

**COORDINATE REFERENCE SYSTEM:**

Datum: WGS84

Projection: UTM Zone 31N

**Accommodation Vessel**

The VESTLAND CYGNUS will be on location until Q4-2017 as accommodation vessel for Turbine commissioning.

**Commissioning activities**

For the commissioning and construction work there are several Crew Transfers Vessels operating in the wind farm area on a daily basis. This activity is ongoing and will continue until commissioning completes in Q4 2017.

**Rock Installation**

A rock installation campaign for scour protection of foundations will be ongoing in the period early May until mid-June. Vessel spread; Rock installation vessel Van Oord – HAM 602, a survey vessel, and 4 bulk carriers for rock supply.

The three intended anchor locations for the rock transfer from the bulk carriers are identified in the plot later in this notice.

## Guard Vessel

The RESOLUTE or the ADVENTURE will be present at the site to safe guard the wind farm area.

## **GENERAL**

**MARINERS ARE HEREBY INFORMED** that a statutory construction Safety Zone (exclusion zone) is in place at the wind farm site. This safety zone is defined by:

- A 500 metres radius around each wind turbine, offshore sub-station and their foundations whilst work is being performed as indicated by the presence of construction vessels; and
- A 50 metres radius around each wind turbine, the offshore sub-station platform and associated foundation structures installed, complete or incomplete but waiting to be commissioned as part of the Dudgeon offshore wind farm where personnel are present on, or are being landed on or being taken from, the structures.

**All vessels will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea.**

**ALL VESSELS ARE REQUESTED** to give all construction and support vessels a wide berth.

**MARINERS ARE ADVISED** to navigate with caution and keep continued watch on VHF Ch. 16 when navigating the area.

A further notice to mariners will be issued when these works are completed, expected autumn 2017.

Please direct any enquiries regarding this notice to Statoil Wind Control Centre: [statoilwindcontrol@statoil.com](mailto:statoilwindcontrol@statoil.com)

A copy of this notice can also be found at:

<http://dudgeonoffshorewind.co.uk/news/notice-to-mariners>

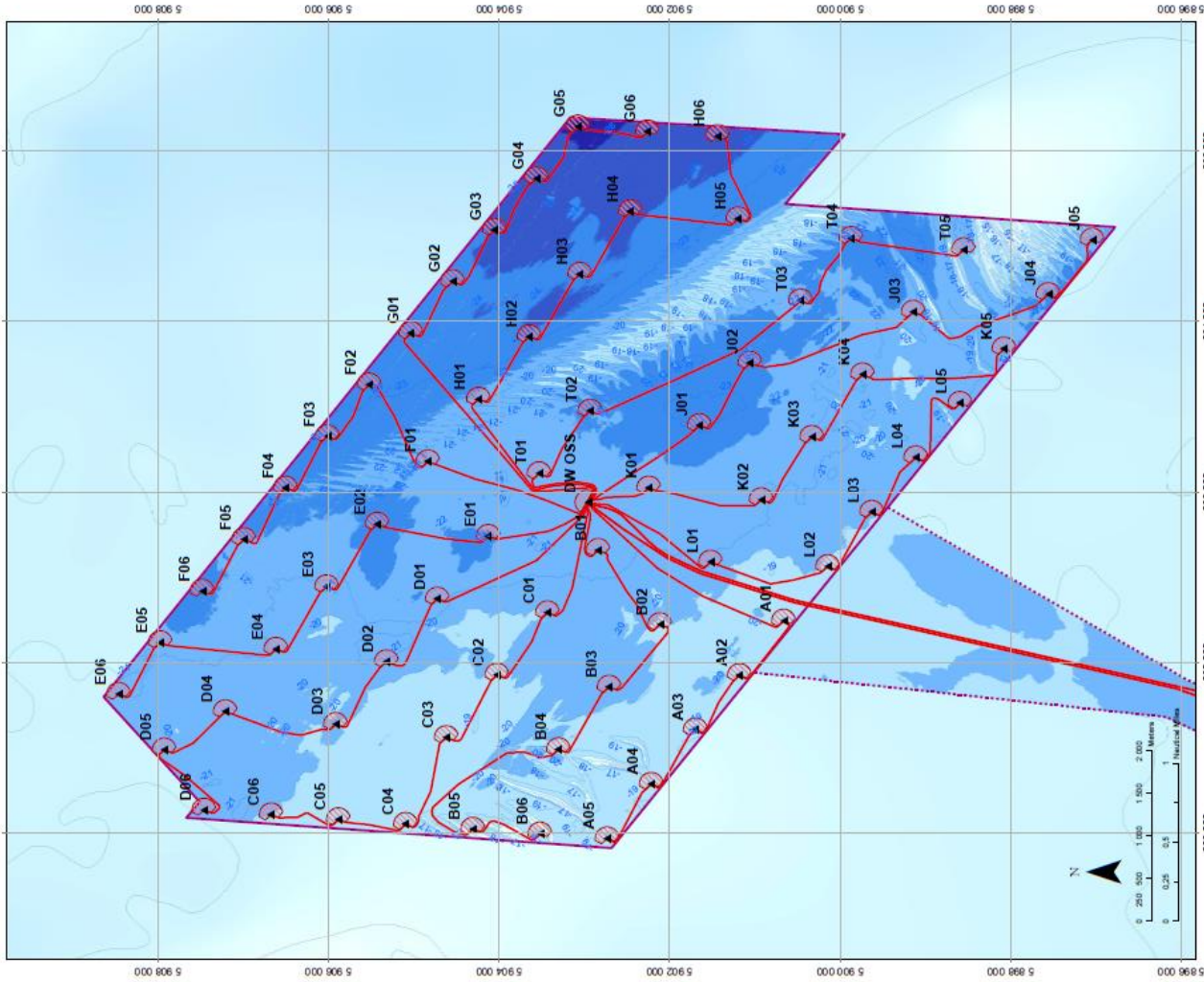
## Fishing

**The Dudgeon Wind Farm area is closed to fishing.** The coordinates for the area of the closed area are included below.



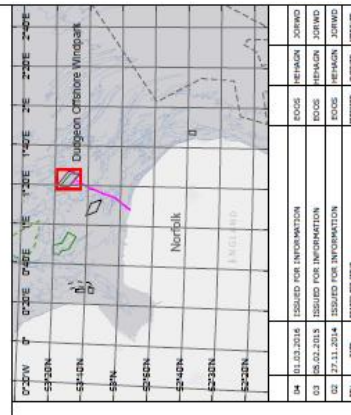
# WTG ID and locations (coordinates)

WTG and Substation Locations											
WTG	Easting	Northing	Lon DD	Lat DD	Depth LAT	WTG	Easting	Northing	Lon DD	Lat DD	Depth LAT
A01	380483.0	500066.0	1.38777	53.24347	-18.5	F06	380634.0	500749.0	1.361683	53.305308	-22.3
A02	388945.0	501153.0	1.34842	53.24869	-18.6	G01	388890.0	500350.0	1.407890	53.253008	-23.6
A03	388206.0	500218.0	1.33629	53.25282	-18.2	G02	384465.0	500656.0	1.417139	53.279238	-23.6
A04	388588.0	500278.0	1.32849	53.25702	-18.2	G03	388070.0	500485.0	1.426371	53.275343	-24.3
A05	387628.0	500218.0	1.31878	53.262013	-18.6	G04	388675.0	500356.0	1.436901	53.271063	-25.1
A06	391131.0	500470.0	1.32796	53.25985	-21.5	G05	388251.0	500255.0	1.444272	53.256493	-20.4
B01	380709.0	500271.0	1.34648	53.263170	-19.6	H01	380280.0	500243.0	1.366567	53.276937	-20.4
B02	380709.0	500338.0	1.33628	53.267384	-19.3	H02	383820.0	500384.0	1.407789	53.271438	-23.5
B03	388924.0	500431.0	1.320918	53.278107	-18.2	H03	384653.0	500365.0	1.418863	53.282448	-23.9
B04	387685.0	500362.0	1.320354	53.289105	-18.2	H04	385287.0	500461.0	1.430149	53.281054	-24.4
B05	380580.0	500343.0	1.350278	53.289105	-18.2	H05	385204.0	500189.0	1.428321	53.246988	-22.5
B06	388945.0	500427.0	1.348102	53.274024	-18.8	H06	380170.0	500144.0	1.443716	53.250063	-24.5
C01	388117.0	500462.0	1.336837	53.279208	-18.4	T01	382212.0	500363.0	1.383706	53.270071	-21.5
C02	388117.0	500509.0	1.321478	53.283289	-18.4	T02	382248.0	500390.0	1.364638	53.284669	-22.1
C03	388206.0	500675.0	1.322602	53.293474	-20.0	T03	384241.0	500460.0	1.416137	53.242920	-21.8
C04	388206.0	500726.0	1.361247	53.287474	-21.7	T04	384674.0	500673.0	1.428312	53.237737	-22.3
C05	390741.0	500523.0	1.350022	53.285702	-20.9	T05	384940.0	500653.0	1.362808	53.253393	-23.1
C06	388206.0	500726.0	1.338783	53.280913	-20.9	J01	382777.0	500165.0	1.403974	53.248112	-22.5
D01	388420.0	500713.0	1.340577	53.302662	-20.2	J02	383509.0	500100.0	1.403974	53.248112	-22.5
D02	388871.0	500793.0	1.333591	53.308910	-20.3	J03	384107.0	500145.0	1.413569	53.231024	-21.7
D03	388871.0	500793.0	1.333591	53.308910	-20.3	J04	384315.0	500705.0	1.417208	53.216941	-22.3
D04	388871.0	500793.0	1.333591	53.308910	-20.3	J05	384654.0	500746.0	1.420845	53.212322	-21.2
D05	388871.0	500793.0	1.333591	53.308910	-20.3	K01	382045.0	500246.0	1.381639	53.259473	-21.5
D06	388871.0	500793.0	1.333591	53.308910	-20.3	K02	381807.0	500093.0	1.380018	53.246002	-21.2
E01	391477.0	500412.0	1.324488	53.275276	-22.4	K03	382940.0	500334.0	1.381300	53.241413	-20.8
E02	391610.0	500431.0	1.324488	53.275276	-22.4	K04	383370.0	500350.0	1.402378	53.236214	-21.0
E03	388880.0	500025.0	1.329275	53.282181	-20.7	K05	383670.0	500079.0	1.404770	53.221389	-21.8
E04	380153.0	500791.0	1.324488	53.308910	-20.3	L01	381174.0	500152.0	1.388836	53.251789	-21.0
E05	388254.0	500466.0	1.343201	53.313983	-21.1	L02	381122.0	500146.0	1.388836	53.251789	-21.0
E06	388254.0	500466.0	1.343201	53.313983	-21.1	L03	381700.0	500663.0	1.388836	53.251789	-21.0
F01	382353.0	500466.0	1.388837	53.281817	-23.2	L04	381700.0	500663.0	1.388836	53.251789	-21.0
F02	382353.0	500466.0	1.388837	53.281817	-23.2	L05	382353.0	500466.0	1.388836	53.251789	-21.0
F03	382353.0	500466.0	1.388837	53.281817	-23.2	L06	382353.0	500466.0	1.388836	53.251789	-21.0
F04	382353.0	500466.0	1.388837	53.281817	-23.2	Sub St	381870.0	500265.0	1.378776	53.254608	-21.1
F05	381430.0	500696.0	1.370638	53.301030	-22.0	(OW COS)					



**Legend Main Map**

- ▲ WTG Layout Design Basis
- Evacuation Zone
- Sub Station
- Planned Interarray Cable Route
- Planned Export Cable Route
- Consented Field Outline
- Bathymetry (m rel. to LAT)
  - < -26
  - -24 -26
  - -22 -24
  - -20 -22
  - -18 -20
  - -16 -18
  - -14 -16
  - -12 -14



**Dudgeon Offshore Windpark**

PROJ: UK / North Norfolk

SCALE: 1:50000

GRID: A3

COORDINATE SYSTEM: UK / North Norfolk

PROJ: UK / North Norfolk

SCALE: 1:50000

GRID: A3

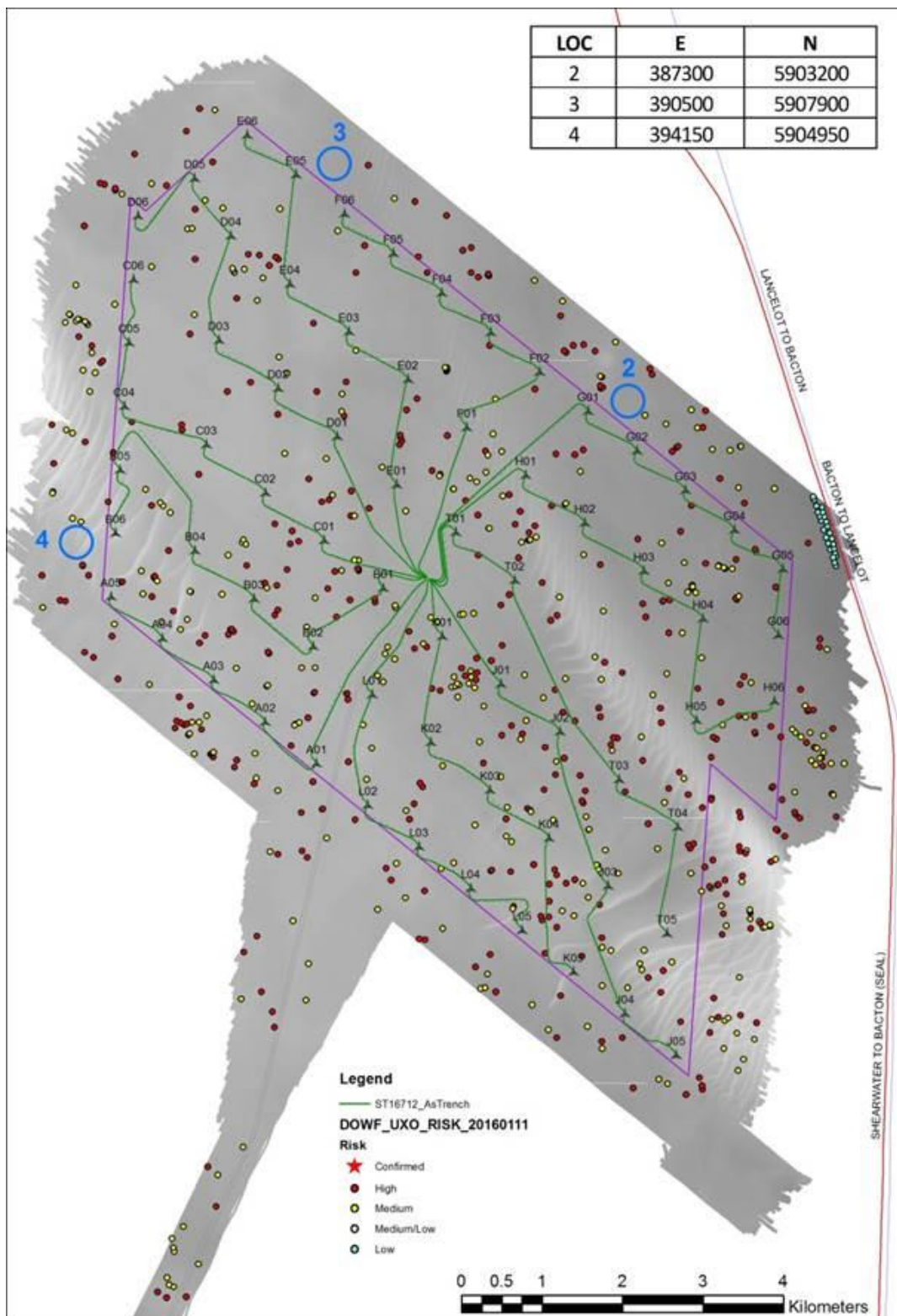
COORDINATE SYSTEM: UK / North Norfolk

This map features bathymetry from seabed survey: ST13504 DOWF Sub and Seabed Mapping (2013) according to the subcontractor's error budget for this survey the accuracy is as follows:

The (horizontal) accuracy for navigation is +/- 20 cm (horizontal determined by the dynamic position calibration for primary and secondary navigation system)

The (vertical) accuracy bathymetry: At 20m water depth the Total Vertical Uncertainty is +/- 27cm. At 50m water depth the Total Vertical Uncertainty is +/- 33 cm.

## Rock Installation Campaign. Anchor locations for rock transfer



## KEY CONSTRUCTION VESSEL CONTACT DETAILS

### ESVAGT NJORD



**Call sign:** OWZN2

**Bridge Phone:** VSAT.TEL: +45 32 71 26 89; / GSM: +45 32 71 26 85

**E-mail:** njord@esvagtvesel.com

### SEA CHALLENGER



**Call sign:** OWLQ2

**Bridge Phone:** V-sat: +45 89 88 90 10

**Master phone:** vsat +45 89 88 90 11 / GSM +45 52 13 95 80

**E-mail:** seachallenger@a2sea.com / Master mast\_sc@a2sea.com

## VESTLAND CYGNUS



**Callsign:** C6BW7

**Bridge Phone:** VSAT.TEL: +4723677230; +4723677230 / GSM: +47 41 43 02 07

**E-mail :** [captain.cygnus@vestlandoffshore.no](mailto:captain.cygnus@vestlandoffshore.no) ; [bridge.cygnus@vestlandoffshore.no](mailto:bridge.cygnus@vestlandoffshore.no)

## Van Oord – HAM 602



**Callsign:** PENF

**Bridge Phone:** Hold

**E-mail:** Hold



## ADVENTURE



**Callsign:** 2IFE4

**Bridge Phone:** V-sat 01947750717

**E-mail:** [adventureGS@gmail.com](mailto:adventureGS@gmail.com) / [adventure.guard1@gmail.com](mailto:adventure.guard1@gmail.com)

## Resolute



**Callsign:** MLPD5

**Bridge Phone:** +44 284 179 8209

**E-mail:** [resolute.guard1@gmail.com](mailto:resolute.guard1@gmail.com)

**Advance WY77**



**Callsign:** MZNA6

**Bridge Phone:** Sat. Phone: 00870773231090/01947 240024

**E-mail:** [adventureGS@gmail.com](mailto:adventureGS@gmail.com)