

NOTICE TO MARINERS



DOGGER BANK OFFSHORE WIND FARM

DATE OF ISSUE:	10/12/2023
NOTICE TO MARINER NUMBER	LF500013-MIP-DOG-NOT-0027 Rev0002

Dogger Bank A & B Array Area MBES Surveying

LOCATION DESCRIPTION		Dogger Bank A & B Offshore Windfarms
COORDINATES WGS 84	DBA Array	See Table 1 below
COORDINATES WGS 84	DBB Array	See Table 2 below
Start Date of survey works		13/11/2023

Description of Hazard/Operation

The Dogger Bank OWF project will be carrying out an MBES geophysical survey within Dogger Bank A (**DBA**) and Dogger Bank B (**DBB**) Array Areas using remotely piloted uncrewed surface vessels (**USVs**).

The **USVs** will be mobilised from Scarborough Harbour where each **USV** will be escorted out of the harbour limits, before transiting to the survey area. Survey Operations will be continuous 24hrs a day. Although vessels are uncrewed, they are managed remotely continuously using 360-degree cameras and other sensors.

The works will commence on the 13th of November 2023, continuing until 01st January 2024 when all locations have been surveyed. The works will be continuous, 24 hours a day. A chart of the **DBA / DBB** Array Areas and bounding coordinates is provided below.

It is requested that all vessels maintain a minimum of 500m separation distance from the **USVs** and pass at reduced speed.


Contact Details

Marine Coordination Contact	Duty Marine Coordinator Tel: +44 (0) 7586 332078 gm_dbmcc@equinor.com
Fisheries Liaison Officer (FLO) CONTACT	Alex Winrow-Giffin, Brown & May Marine Ltd Alex@brownmay.com Tel: 01379 870181 Mob: 07760 160039 Zoë Lawrence - Brown & May Marine Ltd zoe@brownmay.com Mob: 07923 138175
X-Ocean Contacts	Name: USV Supervisor (24/7) e-mail: usv.supervisor@xocean.com mobile: +353 1 223 9950 Name: Mark Baguley e-mail: mark.baguley@xocean.com mobile: +44 7918 298260

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Supporting Information

Vessel Name – X-04 / X-16 / X-18/ X-20	Vessel Contact Details	
	X-04 Uncrewed	
	Call Sign	MFWS5
	MMSI	232023832
	X-09 Uncrewed	
	Call Sign	MHIJ8
	MMSI	232027632
	X-16 Uncrewed	
	Call Sign	MKMB2
	MMSI	232039413
	X-17 Uncrewed	
	Call Sign	MKMB4
	MMSI	232039414
	X-19 Uncrewed	
	Call Sign	MKMB8
MMSI	232039416	
Vessel Details		
Length	4.5m	
Breadth	2.5m	
Draft	1.5m	
Other Information		
<p>The USV sends real time images and situational awareness data via satellite to a team of operators keeping watch and controlling the vessel remotely 24/7</p>		
<p>The USV is equipped with the following to make it conspicuous to other marine traffic:</p> <ul style="list-style-type: none"> AIS Navigational lights and sound signal Active RADAR reflector Superstructure painted yellow 		

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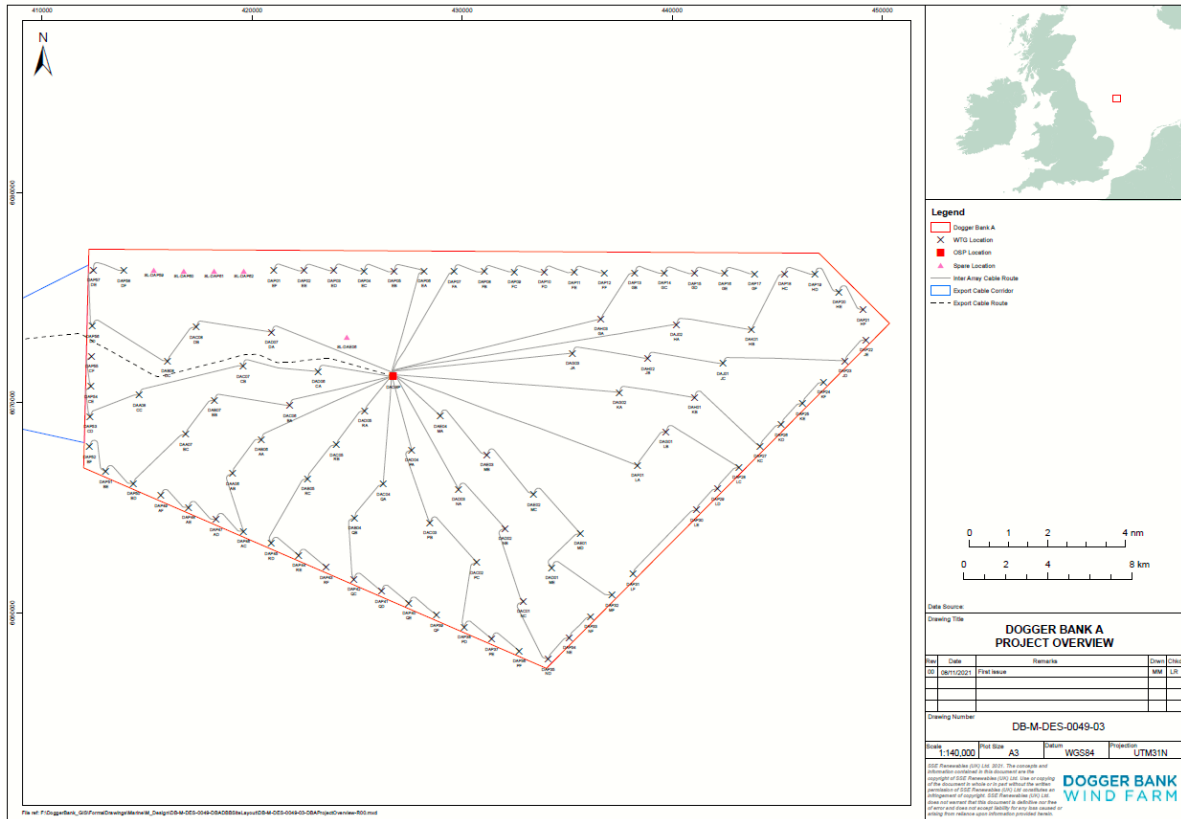


Figure 1: Dogger Bank A Array Area

Table 1: Dogger Bank A Array Area Bounding Coordinates

Latitude (WGS 84)	Longitude (WGS 84)
54° 50.526'N	001° 37.141'E
54° 50.630'N	002° 10.286'E
54° 48.815'N	002° 14.689'E
54° 39.162'N	001° 58.695'E
54° 44.216'N	001° 37.550'E

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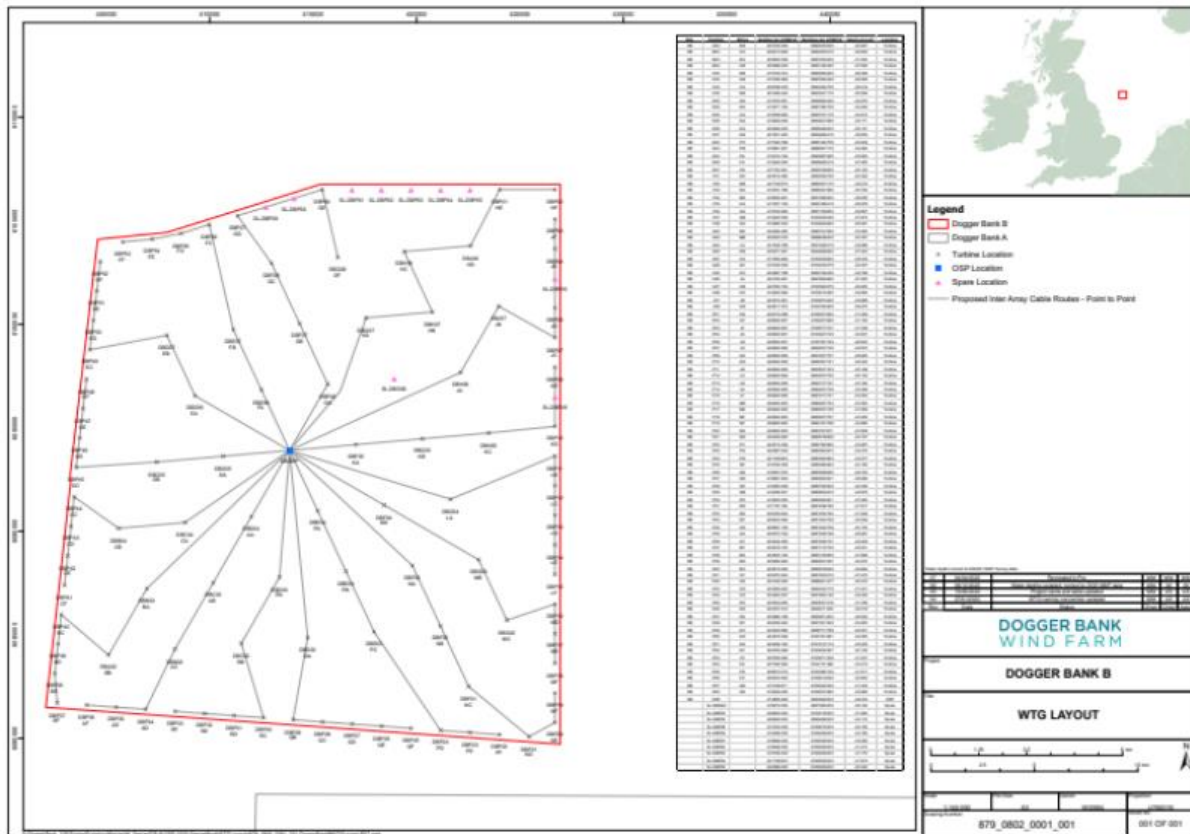


Figure 2: Dogger Bank B Array Area

Table 2 : Dogger Bank B Array Area Bounding Coordinates

Latitude (WGS 84)	Longitude (WGS 84)
55° 05.756'N	001° 25.694'E
55° 07.631'N	001° 40.049'E
55° 07.767'N	001° 53.890'E
54° 49.767'N	001° 54.456'E
54° 50.731'N	001° 25.315'E