



NOTICE TO MARINERS HORNSEA PROJECT TWO OFFSHORE WIND FARM PLANNED GEOTECHNICAL INVESTIGATIONS

Hornsea Project Two – Notice to Mariners June 2017. Issued 23/06/2017 – Update 1

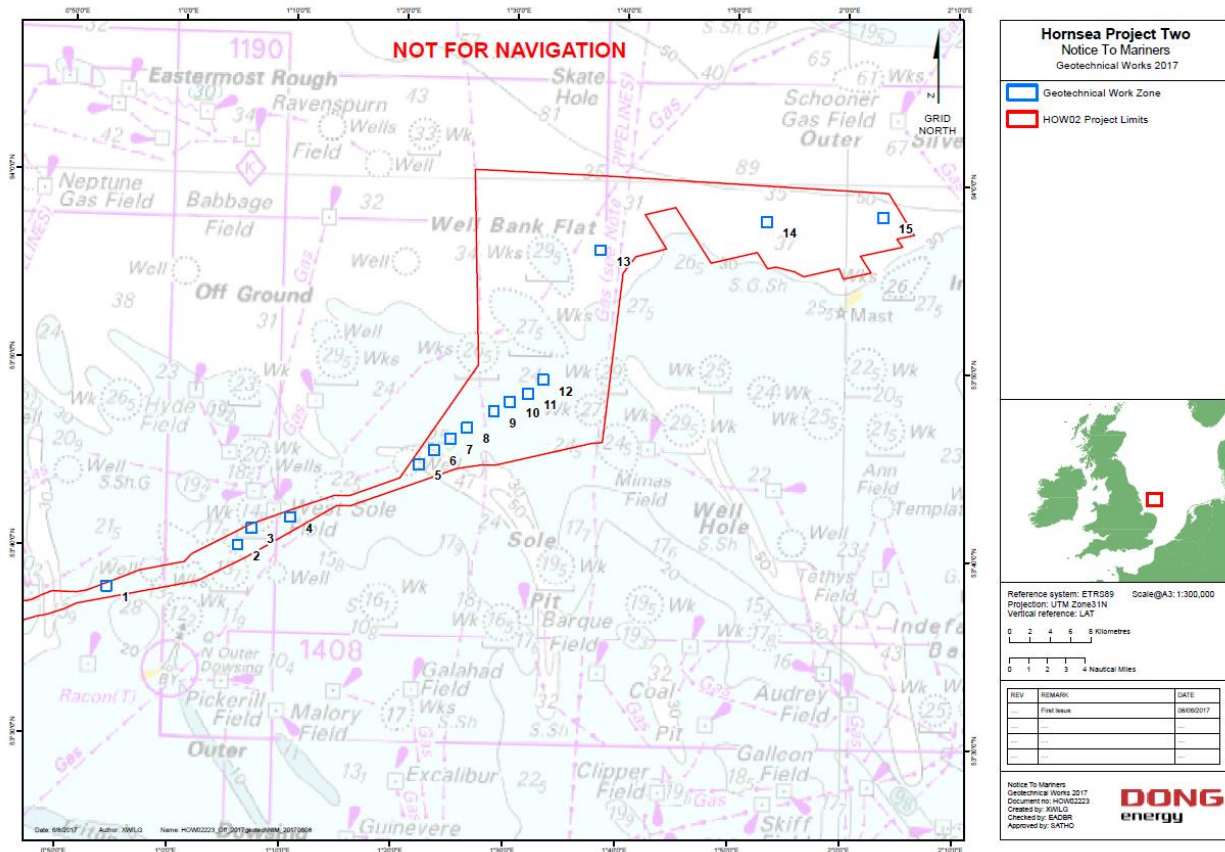
1. INTRODUCTION

Mariners are advised that Hornsea Project Two will be carrying out geotechnical investigations in July for the proposed Hornsea Project Two Offshore Wind Farm located within the UK Sector of the North Sea off the coast of East Yorkshire as shown on the attached charts.

The planned geotechnical investigations will include borehole locations with combined sampling & CPT testing up to 40m below the seabed level within the Proposed Site Boundary shown on next pages.

2. AREA OF OPERATIONS

Activities will centre on the Hornsea Project Two array area and eastern most part of the export cable route as shown below.



The following points define the extent of the project area in which geotechnical investigations will be conducted.

NTM Zone ID	Longitude (WGS84)	Latitude (WGS84)
1	0° 54' 31.330" E	53° 38' 9.132" N
	0° 54' 32.929" E	53° 37' 36.795" N
	0° 53' 38.531" E	53° 37' 35.841" N
	0° 53' 36.920" E	53° 38' 8.178" N
2	1° 6' 11.431" E	53° 40' 31.967" N
	1° 6' 12.884" E	53° 39' 59.627" N
	1° 5' 18.429" E	53° 39' 58.761" N
	1° 5' 16.964" E	53° 40' 31.101" N
3	1° 7' 23.925" E	53° 41' 25.894" N
	1° 7' 25.363" E	53° 40' 53.553" N
	1° 6' 30.888" E	53° 40' 52.696" N
	1° 6' 29.438" E	53° 41' 25.037" N
4	1° 10' 51.921" E	53° 42' 4.250" N
	1° 10' 53.315" E	53° 41' 31.908" N
	1° 9' 58.824" E	53° 41' 31.077" N
	1° 9' 57.418" E	53° 42' 3.419" N
5	1° 22' 17.434" E	53° 45' 2.883" N
	1° 22' 18.684" E	53° 44' 30.538" N
	1° 21' 24.124" E	53° 44' 29.793" N
	1° 21' 22.861" E	53° 45' 2.138" N
6	1° 23' 35.204" E	53° 45' 48.171" N
	1° 23' 36.439" E	53° 45' 15.826" N

	1° 22' 41.862" E 1° 22' 40.615" E	53° 45' 15.091" N 53° 45' 47.436" N
7	1° 25' 4.524" E 1° 25' 5.740" E 1° 24' 11.148" E 1° 24' 9.920" E	53° 46' 25.410" N 53° 45' 53.065" N 53° 45' 52.341" N 53° 46' 24.686" N
8	1° 26' 33.887" E 1° 26' 35.085" E 1° 25' 40.479" E 1° 25' 39.270" E	53° 47' 2.631" N 53° 46' 30.285" N 53° 46' 29.572" N 53° 47' 1.918" N
9	1° 28' 55.507" E 1° 28' 56.675" E 1° 28' 2.049" E 1° 28' 0.870" E	53° 47' 56.063" N 53° 47' 23.717" N 53° 47' 23.022" N 53° 47' 55.368" N
10	1° 30' 22.011" E 1° 30' 23.161" E 1° 29' 28.523" E 1° 29' 27.361" E	53° 48' 29.122" N 53° 47' 56.775" N 53° 47' 56.091" N 53° 48' 28.438" N
11	1° 31' 58.797" E 1° 31' 59.927" E 1° 31' 5.278" E 1° 31' 4.137" E	53° 48' 55.396" N 53° 48' 23.049" N 53° 48' 22.377" N 53° 48' 54.724" N
12	1° 33' 17.639" E 1° 33' 18.752" E 1° 32' 24.087" E 1° 32' 22.962" E	53° 49' 40.267" N 53° 49' 7.920" N 53° 49' 7.258" N 53° 49' 39.604" N
13	1° 38' 17.385" E 1° 38' 18.438" E 1° 37' 23.619" E 1° 37' 22.554" E	53° 56' 38.434" N 53° 56' 6.086" N 53° 56' 5.461" N 53° 56' 37.808" N
14	1° 53' 14.956" E 1° 53' 15.817" E 1° 52' 20.957" E 1° 52' 20.083" E	53° 58' 17.538" N 53° 57' 45.188" N 53° 57' 44.676" N 53° 58' 17.027" N
15	2° 3' 43.524" E 2° 3' 44.250" E 2° 2' 49.380" E 2° 2' 48.642" E	53° 58' 36.265" N 53° 58' 3.913" N 53° 58' 3.481" N 53° 58' 35.833" N

The geotechnical vessel will be deployed to geotechnical borehole locations within the windfarm area at times and positions determined by client requirements, weather and sea conditions.

3. SURVEY

3.1 Geotechnical Investigations

Please be advised that Fugro will be carrying out geotechnical investigations with the geotechnical vessel Bucentaur on behalf of DONG Energy for the Hornsea Project Two Wind Farm.

The geotechnical operations will commence on or around the 08th July 2017 and run for approximately 6-

10 days. The exact finish date is dependent on the prevailing weather conditions, vessel downtime and work progress, but the forecasted completion date as of the publication date of this notice is the end of July.

The vessels will be deploying seabed drilling and testing equipment. This will require them to be in DP and remain stationary for periods of approximately 12 hours at a time and will restrict their ability to manoeuvre. It will be requested that all vessels operating within the area keep a safe distance (500m) from the vessel and pass at minimum speed to reduce vessel wash.

Geotechnical operations will be conducted on a 24 hour basis. Throughout survey operations the vessel will be displaying the shapes and lights prescribed in the International Rules for the Prevention of Collisions at Sea (COLREGS) Rule 27, to indicate that the survey vessel is restricted in its ability to manoeuvre.

3.2 Safety

Furthermore, it is requested that anybody having knowledge of any potential objects submerged or moored on the seabed, within the survey area, that could be damaged or form a hazard to the survey vessel and its equipment advises the Projects Fishing Industry Liaison of their position and nature. When surveys commence, a listening watch will be maintained on VHF Channel 12 and 16 when within the appropriate port authority area, and will actively transmit an AIS signal. The survey vessels will also broadcast at regular daily intervals, vessel position, operational information and intentions.

4. IMMEDIATE CONTACTS

The contents of this notice are based upon our current understanding of Project Two requirements. A further notice will be issued once survey operations are completed.

Enquiries regarding the contents of this Notice to Mariners or any other matters should be directed to:

Geotechnical Investigations - Fugro		
Project Manager	Andy Fleetwood	
Tel: +44 (0) 1491 820 657	Mob: +44 (0) 7917 058 751	E-mail: a.fleetwood@fugro.co.uk

5. FISHERIES LIAISON

Project Two Onshore Fisheries Liaison is provided for by Nick Garside who can be contacted on:

Mob: +44 (0) 7538 827 013 Email: nick.garside@live.co.uk

5.1 Offshore Fisheries Liaison

For both geotechnical and geophysical operations, offshore Fisheries Liaison Officers will be on-board and shall be present on the vessel at all times during the works, contactable on VHF channel 16.

5.2 Project Specific Contacts

In the event the FLO is not contactable please direct fisheries enquiries related to the survey works to the DONG Site Investigation Manager:

Site Investigation Manager – Roland Gottfredsen

Mob: +45 9955 6391 E-mail: ROLGO@dongenergy.dk

6. SURVEY VESSELS

Geotechnical Operations

Survey operations will be conducted by the survey vessels **Bucentaur** whose details are provide below. Contact can be made directly with the vessels using the contact details listed below. Client and contractor contact details are provided in Section 4 of this NTM.

Vessel Contact Details (Bucentaur)	
Bridge	+47 23 67 48 50
Inmarsat Bridge	0087 076 111 5243
V-Sat Bridge	(+47) 23 67 48 50
Party Chief	+47 23 67 48 53
Email	master@bucentaur.com

General Information (Bucentaur)	
Name	BUCENTAUR
Flag	Bahamas
Year Built	1983
IMO Number	8112548
Call Sign	C6SU4
Class	DnV + 1A1, Dynpos, AUTR, Heldk, E0, ICE C



Dimensions	
Length	78.1 m
Beam	16.0 m

Draught	5.6 m
Gross Tonnage	2768
Communication	
Inmarsat	TBC
Radio Comms	TBC

7. DISTRIBUTION LIST

This NTM will also be distributed to the relevant local MMO offices, local IFCA's NFFO, Rederscentrale, HFIG, Danish Fishermen's Association, EEFP0 and VisNed.

ABP Ports	ciefferson@abports.co.uk ; afirman@abports.co.uk ; hesvts@abports.co.uk ;
BP	Andrew.Steele@uk.bp.com ; sandra.turin@uk.bp.com ; bickft@bp.com ;
CEFAS	jon.rees@cefass.co.uk ; Keith.Cooper@cefass.co.uk ;
Centrica	Jurgen.joosten@centrica.com ;
Conoco Phillips	Karen.Morrison@conocophillips.com ; Kingsley.Anunobi@contractor.conocophillips.com ; Susan.Mpaulo@conocophillips.com ; Stuart.C.Brookes@conocophillips.com ; Karen.morrison@conocophillips.com ; liam.R.williams@conocophillips.com ;
DECC (now known as Department of Business, Energy and Industrial Strategy)	enquires@BEIS.gov.uk ;
DEFRA (Eastern Fisheries Inspectorate Lowestoft)	lowestoft@mfa.gsi.gov.uk ; roy.kersey@dfds.com ;
DFDS	richard.berglarsen@dfds.com ;
DIO SD Trg-E Holbeach TSO (Lawrence, Christa Sqn Ldr)	DIOSDTrg-EHolbeachTSO@mod.uk ;
DNK-ATCSNCO2 (Philpot, Jonathan FS)	DNK-ATCSNCO2@mod.uk ;
Eastern IFCA	mail@eastern-ifca.gov.uk ;
East Port Uk	harbouoffice@eastportuk.co.uk ;
East Riding Council	david.mccandless@eastriding.gov.uk ;
ENGIE	Pierre.girard@gdfsuezep.co.uk ;
HM Coastguard	zone8@hmcg.gov.uk ; zone9@hmcg.gov.uk ;
HOW01 - Fisheries Liaison Officer (Onshore)	nick.garside@live.co.uk ;
HOW01	MBROW@dongenergy.co.uk ;
HOW03	JULCA@dongenergy.co.uk ;
Ineos	phillip.jones@ineos.com ; mark.yates@ineos.com ; Andrew.Mann@ineos.com ;

Kingfisher Information Services	kingfisher@seafish.co.uk ;
Kings Lynn Port Authority	harbourmaster@portauthoritykingslynn.fsnet.co.uk ;
MCA	paul.townsend@mcga.gov.uk ; Heloise.warner@mca.gov.uk ;
MCA (Navigation Safety)	navigationsafety@mcga.gov.uk ;
MCA Offshore Renewable Energy Advisor	nick.salter@mcga.gov.uk ;
MCA Yarmouth	Wm.yarmouth@mcga.gov.uk ;
MCA (Humber Maritime Rescue Sub-Centre)	wm.humber@mcga.gov.uk ;
Marine Management Organisation	Emma.Toogood@marinemanagement.org.uk ;
Marine Management Organisation	marine.consents@marinemanagement.org.uk ;
Marine Management Organisation (Grimsby)	grimsby@marinemanagement.org.uk ;
Marine Management Organisation (Harwich)	harwich@marinemanagement.org.uk ;
Marine Management Organisation (North Shields)	northshields@marinemanagement.org.uk ;
National Federation of Fishermen's Organisations	nffo@nffo.org.uk ;
National Grid	Daniel.James@nationalgrid.com ;
North Eastern IFCA	ne-ifca@eastriding.gov.uk ;
North IFCA	nifca@nifca.gov.uk ;
Perenco	asanders@uk.perenco.com ;
Port of Boston	rwalker@portofboston.co.uk ;
P&O Ferries	grant.laversuch@poferries.com ;
Premier Oil	armstrong@PREMIER-OIL.com ; lwest@PREMIER-OIL.com ; daridgway@PREMIER-OIL.com ;
RNLI (Flamborough Lifeboat)	flamborough@rnli.org.uk ;
RNLI (Skegness Lifeboat Station)	Skegness@rnli.org.uk ;
RNLI (Scarborough Lifeboat)	scarborough@rnli.org.uk ;
RNLI (Spurn Head)	humber@rnli.org.uk ;
RNLI (Whitby Lifeboat)	whitby@rnli.org.uk ; coxswain@wellslifeboat.org ;
Shell	UKDCC-Supervisor@shell.com ; SUKEP-Marine-Services@shell.com ; sandy.smith@shell.com ; Tony.peetoom@shell.com ;
Specialist Marine Services	simonp@smchse.com ;
Trinity House Navigation	Navigation.directorate@thls.org ; martin.thomas@thls.org ;
Tullow Oil	ian.manners@tulloil.com ;
UKHO (HDC Files)	hdcfiles@ukho.gov.uk ;
UKHO (NTMs)	noticetomariners@ukho.gov.uk ; offshore.energy@ukho.gov.uk ; Ray.Paice@UKHO.gov.uk ;
UKHO (Navigational Warnings)	Navwarnings@btconnect.com ;

Wells Harbour	harbouroffice@wellsharbour.co.uk
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