



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

**Hornsea Project Two – Notice to Mariners June 2017. Issued 07/07/2017 – Update 2**

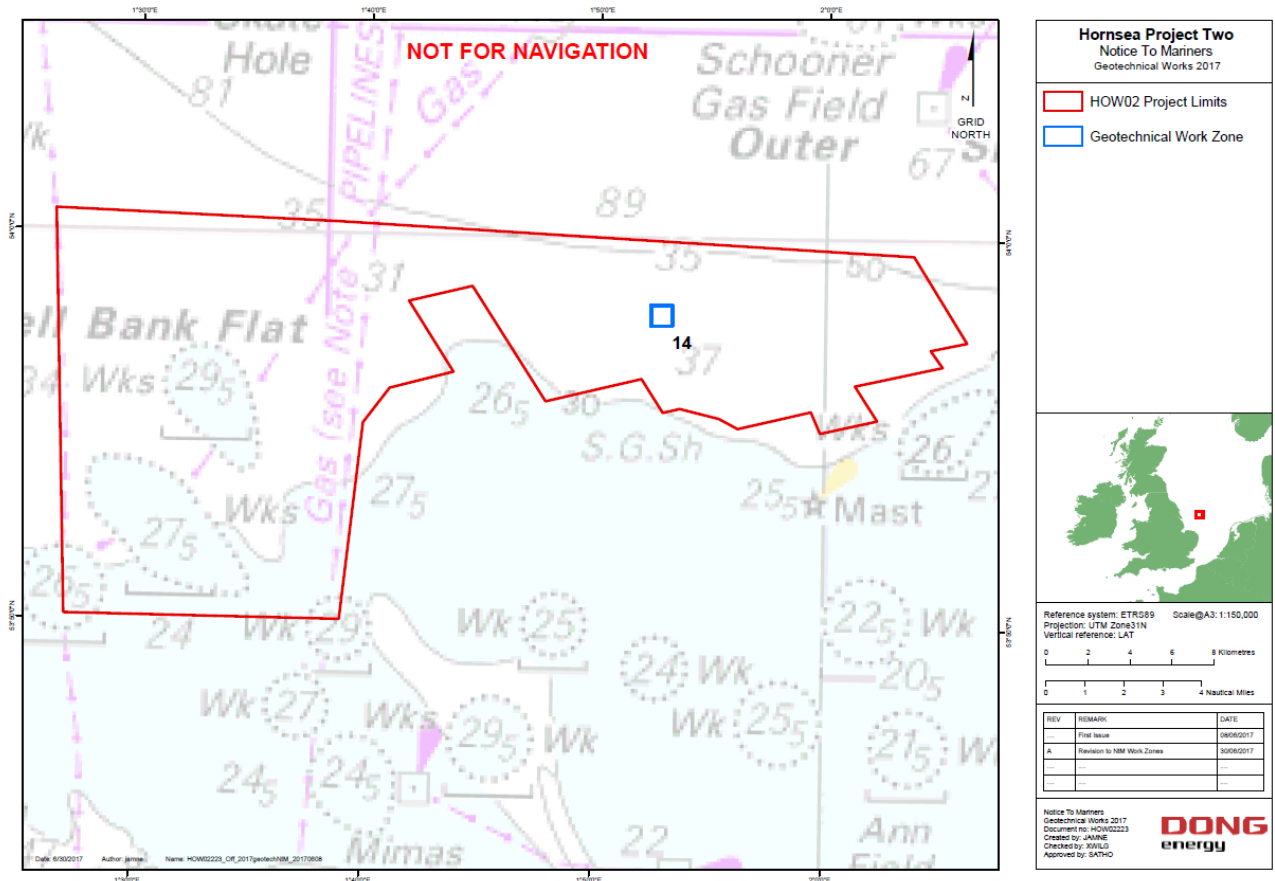
### **1. INTRODUCTION**

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 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)  |
|-------------|-------------------|-------------------|
| 14          | 1° 53' 14.956" E  | 53° 58' 17.538" N |
|             | 1° 53' 15.817" E  | 53° 57' 45.188" N |
|             | 1° 52' 20.957" E  | 53° 57' 44.676" N |
|             | 1° 52' 20.083" E  | 53° 58' 17.027" 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 22nd 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 |                           |  |
|-------------------------------------|---------------------------|--|
| <b>Project Manager</b>              | <b>Andy Fleetwood</b>     |  |
| Tel: +44 (0) 1491 820 657           | Mob: +44 (0) 7917 058 751 | E-mail: <a href="mailto:a.fleetwood@fugro.co.uk">a.fleetwood@fugro.co.uk</a> |

## 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](mailto: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](mailto: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 |

|                      |                   |
|----------------------|-------------------|
| <b>Draught</b>       | 5.6 m             |
| <b>Gross Tonnage</b> | 2768              |
| <b>Communication</b> |                   |
| <b>Inmarsat</b>      | 0087 076 111 5243 |

## 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, EEFPPO and VisNed.

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

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

