



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

**Hornsea Project One – Notice to Mariners April 2016. Issued 04/04/2015**

### **1. INTRODUCTION**

Mariners are advised that Hornsea Project One will be carrying out geotechnical investigations in April for the proposed Hornsea Project One 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 (wind farm only).

### **2. AREA OF OPERATIONS**

Activities will centre on the Hornsea Project One wind farm site area. The following points define the extent of the project area in which geotechnical investigations will be conducted.

<b>WGS84 UTM31N (Deg, Min, Secs)</b>					
<b>ID</b>	<b>Longitude</b>	<b>Latitude</b>	<b>ID</b>	<b>Longitude</b>	<b>Latitude</b>
<b>1</b>	1° 44' 31.880" E	53° 58' 42.179" N	<b>13</b>	2° 4' 32.376" E	53° 57' 12.481" N
<b>2</b>	1° 47' 47.796" E	53° 55' 46.445" N	<b>14</b>	2° 6' 6.700" E	53° 57' 24.509" N
<b>3</b>	1° 51' 57.409" E	53° 56' 22.870" N	<b>15</b>	2° 13' 57.158" E	53° 50' 10.018" N
<b>4</b>	1° 52' 54.282" E	53° 55' 31.318" N	<b>16</b>	2° 11' 36.820" E	53° 49' 14.297" N
<b>5</b>	1° 53' 38.108" E	53° 55' 37.592" N	<b>17</b>	1° 59' 54.762" E	53° 49' 58.584" N
<b>6</b>	1° 55' 20.262" E	53° 55' 23.329" N	<b>18</b>	1° 58' 59.804" E	53° 49' 58.944" N
<b>7</b>	1° 56' 10.619" E	53° 55' 8.162" N	<b>19</b>	1° 38' 58.430" E	53° 50' 5.118" N
<b>8</b>	1° 59' 20.944" E	53° 55' 35.429" N	<b>20</b>	1° 39' 52.024" E	53° 55' 9.293" N
<b>9</b>	1° 59' 45.776" E	53° 55' 2.525" N	<b>21</b>	1° 41' 0.143" E	53° 56' 3.228" N
<b>10</b>	2° 2' 14.219" E	53° 55' 22.663" N	<b>22</b>	1° 43' 45.592" E	53° 56' 29.670" N
<b>11</b>	2° 1' 15.269" E	53° 56' 16.303" N	<b>23</b>	1° 41' 46.795" E	53° 58' 17.828" N
<b>12</b>	2° 5' 4.031" E	53° 56' 46.586" N	<b>24</b>	1° 44' 31.880" E	53° 58' 42.179" 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

Prepared Andrew Fleetwood (Fugro) 01/04/2016  
 Accepted Marc Browne (DONG Energy) 01/04/2016  
 Approved Bronagh Byrne (DONG Energy) 04/04/2016

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### 3. SURVEY

#### 3.1 Geotechnical Investigations

Please be advised that Fugro will be carrying out geotechnical investigations with the geotechnical vessels MV Bucentaur & MV Greatship Manisha on behalf of DONG Energy for the Hornsea Project One Wind Farm.

The geotechnical operations will commence on the **08 April** and run for approximately **8 weeks**. 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 May.

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) 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 One 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>
<b>Vessel Manager</b>	<b>Gary Jago (Greatship Manisha)</b>	
Tel: +44 (0) 1326 254 617	Mob: +44 (0) 7920 504 108	E-mail: <a href="mailto:gjago@seacore.com">gjago@seacore.com</a>
<b>Vessel Manager</b>	<b>Nico Meijering (Bucentaur)</b>	
Tel: +31 (0)70 31 19118	Mob: +31 (0)6 11 62 01 85	E-mail: <a href="mailto:nj.meijering@fugro.com">nj.meijering@fugro.com</a>

### 5. FISHERIES LIAISON

Project One Onshore Fisheries Liaison is provide for by Nick Garside and Courtney French and can be contacted on:

Mob: +44 (0) 7538 827 013      Email: [nick.garside@live.co.uk](mailto:nick.garside@live.co.uk)  
 Mob: +44 (0) 7702710178      Email: [courtney@brownmay.com](mailto:courtney@brownmay.com)

#### 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.

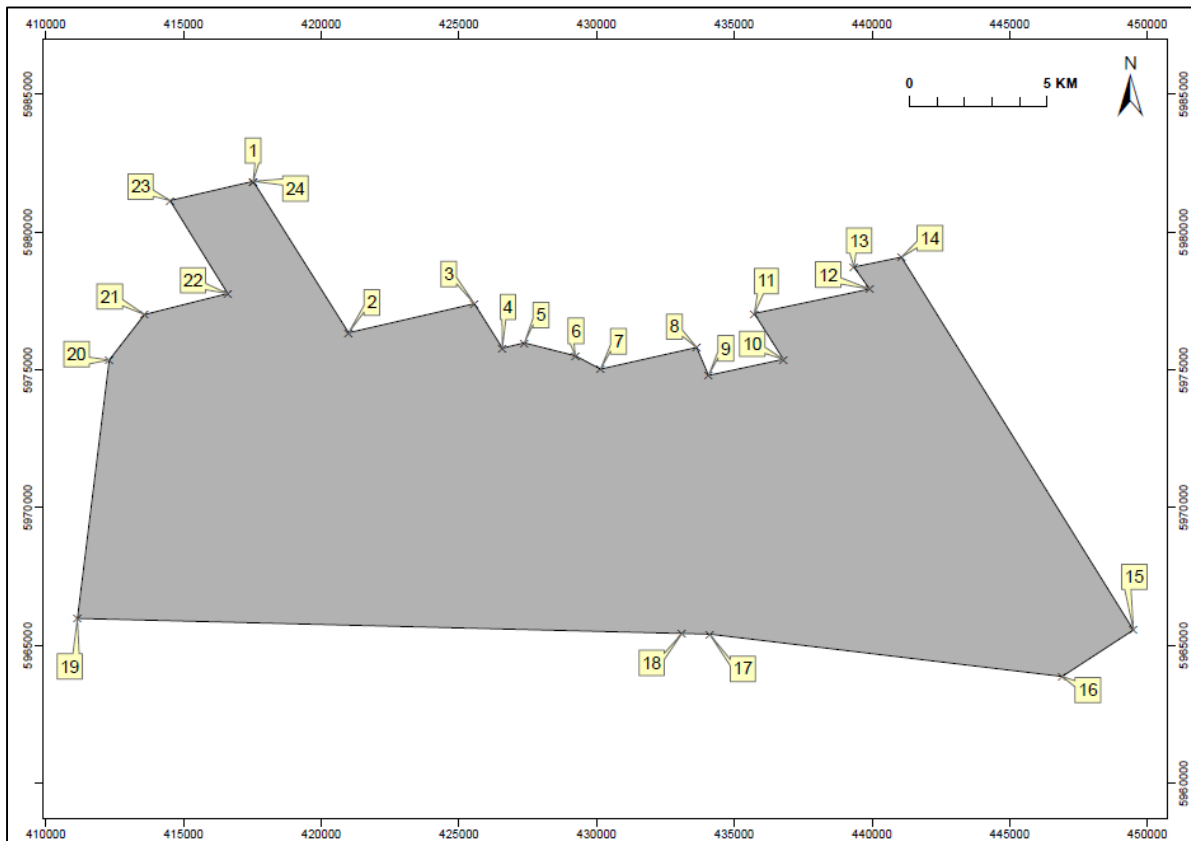
## 5.2 Project Specific Contacts

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 – Willem Knoops

Mob: +44 (0) 7500 953 231 E-mail: [WILKN@dongenergy.co.uk](mailto:WILKN@dongenergy.co.uk)

## 6. SURVEY AREA



## 7. SURVEY VESSELS

### Geotechnical Operations

Survey operations will be conducted by the survey vessels **MV Bucentaur** and **MV Greatship Manisha** 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 (MV 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 (MV Bucentaur)	
Name	M/V Bucentaur
Flag	British
Year Built	2003
IMO Number	9249465
Call Sign	C6SU4
Class	DnV + 1A1 Supply Vessel SF EO, Dynpos, AUTR



Dimensions	
Length	72 m
Beam	16 m
Draught	5.9 m
Gross Tonnage	2,244 t
Communication	
Inmarsat	1x Furuno SAT B FELCOM 81 2 Thrane & Thrane Sat C
Radio Comms	2x Sailor Compact VHF RT4722 with DSC 1 x Sailor RT 2048 simplex VHF

Vessel Contact Details (MV Greatship Manisha)	
Bridge	+44 (0)203 1454 752
Immarsat Bridge	+870 765 037 828
V-Sat Bridge	+870 765 037 828
V-SAT Party Chief / Client Representative	+47 23 67 48 53
GSM Party Chief Mobile	+44 (0)1224 672 798
E-mail	GSM-PartyChief@fugro.com

General Information (MV Greatship Manisha)	
<b>Name</b>	M/V Greatship Manisha
<b>Flag</b>	Singapore
<b>Year Built</b>	2010
<b>IMO Number</b>	9466465
<b>Call Sign</b>	C6SU4
<b>Class</b>	DNV: +1A1, E0, SSC, DYNPOS AUTR Clean, Comf-V(3), Supply vessel, LFL*, DK(+), hl (2,5/2,8) Naut OSV(A)



Dimensions	
<b>Length</b>	87 m
<b>Beam</b>	20 m
<b>Draught</b>	6.3 m
<b>Gross Tonnage</b>	4850t
Communication	
<b>Inmarsat</b>	2no. Sailor TT-3606E
<b>Radio Comms</b>	Sailor RT7026 Master Units Sailor CU 7000 Slave Units

## 8. DISTRIBUTION LIST

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

ABP Ports	<a href="mailto:cjefferson@abports.co.uk">cjefferson@abports.co.uk</a> ;
ABP Ports	<a href="mailto:afirman@abports.co.uk">afirman@abports.co.uk</a> ;
BP	<a href="mailto:lynda.harpley@uk.bp.com">lynda.harpley@uk.bp.com</a> ;
BP	<a href="mailto:fiona.williamson@uk.bp.com">fiona.williamson@uk.bp.com</a> ;
CEFAS	<a href="mailto:jon.rees@cefass.co.uk">jon.rees@cefass.co.uk</a> ;
Centrica	<a href="mailto:Nigel.Warwick@centrica.com">Nigel.Warwick@centrica.com</a> ;
Conoco Phillips	<a href="mailto:Susan.Mpaulo@conocophillips.com">Susan.Mpaulo@conocophillips.com</a> ;
DECC	<a href="mailto:correspondence@decc.gsi.gov.uk">correspondence@decc.gsi.gov.uk</a> ;
Defence Infrastructure Organisation	<a href="mailto:DNK-ATCSNCO2@mod.uk">DNK-ATCSNCO2@mod.uk</a> ; <a href="mailto:DIOSDTrg-EHolbeachTSO@mod.uk">DIOSDTrg-EHolbeachTSO@mod.uk</a> ;
DEFRA (Eastern Fisheries Inspectorate Lowestoft)	<a href="mailto:lowestoft@mfa.gsi.gov.uk">lowestoft@mfa.gsi.gov.uk</a> ;
DFDS	<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> ;
Eastern IFCA	<a href="mailto:mail@eastern-ifca.gcsx.gov.uk">mail@eastern-ifca.gcsx.gov.uk</a> ;
East Port UK	<a href="mailto:harbouroffice@eastportuk.co.uk">harbouroffice@eastportuk.co.uk</a> ;
East Riding Council	<a href="mailto:david.mccandless@eastriding.gov.uk">david.mccandless@eastriding.gov.uk</a> ;
E-ON	<a href="mailto:mark.stockwell@eon.com">mark.stockwell@eon.com</a> ;
HOW01 - Fisheries Liaison Officer (Onshore)	<a href="mailto:nick.garside@live.co.uk">nick.garside@live.co.uk</a> ;
HOW02	<a href="mailto:SATHO@dongenergy.co.uk">SATHO@dongenergy.co.uk</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> ;
Lowestoft Harbour Master	<a href="mailto:Rmusgrove@abports.co.uk">Rmusgrove@abports.co.uk</a> ;
MCA	<a href="mailto:paul.townsend@mcga.gov.uk">paul.townsend@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:yarmouthcoastguard@mcga.gov.uk">yarmouthcoastguard@mcga.gov.uk</a> ; <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:margaret.tierney@marinemanagement.org.uk">margaret.tierney@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> ;
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:walker@portofboston.co.uk">walker@portofboston.co.uk</a> ;
P&O Ferries	<a href="mailto:grant.laversuch@poferries.com">grant.laversuch@poferries.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> ; <a href="mailto:coxswain@wellslifeboat.org">coxswain@wellslifeboat.org</a> ;
Shell	<a href="mailto:UKDCC-Supervisor@shell.com">UKDCC-Supervisor@shell.com</a> ; <a href="mailto:sandy.smith@shell.com">sandy.smith@shell.com</a> ;
Trinity House Navigation	<a href="mailto:Directorate@thls.org">Directorate@thls.org</a>
Trinity House Navigation	<a href="mailto:Navigation.directorate@thls.org">Navigation.directorate@thls.org</a> ;
Tullow Oil	<a href="mailto:Andy.Edgar@tulloil.com">Andy.Edgar@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> ;
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> ;