The shaded blocks below indicate reports of fishing hazards and offshore activities.

What’s inside?

**Area 1** (p.2-3)
1. Seabed Activity

**Area 2** (p.4)
1. Seabed Activity
2. Survey Activity

**Area 3** (p.5-7)
1. Seabed Activity
2. Survey Activity

**Area 4** (p.N.A)
1. No Content

**Area 5** (p.8-9)
1. Seabed Activity
2. Survey Activity

**Area 6** (N.A)
1. No Content
Seabed Activity

Moray Offshore Renewables Limited – Fishing Hazard

Please be advised that Drace Infraestructuras UK Ltd is undertaking the installation of a meteorological mast for the Moray Offshore Renewables Limited offshore wind farms (Telford, Stevenson and MacColl). This work is being undertaken in support of the development of The Crown Estate Round 3 Zone 1 offshore wind licensing on the outer Moray Firth off the East coast of Scotland.

The Works

Please be advised that there has been an event on the site which has led to the upper 20m of the lattice mast becoming detached and sinking in the vicinity of the mast embankment. The co-ordinates for the corners of the embankment of the met mast are provided in the table below. The wreckage is located between the following locations 58º10.95’N 2º49.178’W and 58º10.94’N 02º49.186’W. The navigational aids are still operational.

<table>
<thead>
<tr>
<th>Corner No</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>58º10.928’N 002º49.180’W</td>
</tr>
<tr>
<td>2 (North Corner)</td>
<td>58º10.946’N 002º49.215’W</td>
</tr>
<tr>
<td>3</td>
<td>58º10.928’N 002º49.250’W</td>
</tr>
<tr>
<td>4</td>
<td>58º10.910’N 002º49.215’W</td>
</tr>
</tbody>
</table>

Recovery of the lattice and access ladder, re-installation of the ladder and further site investigation will take place at the next available weather window. The vessels that will be used for the above activities are detailed below. All works are subject to suitable weather conditions. The vessels that will be used for the above activities are MV C-Odyssey (2ETW7) Sea Weasel (2CQX3) Sea Beaver (MVNK8)

For further information: John Yorston, Moray Offshore Renewables, Tel: 0131 5567602 / 07557635095 email: john.yorston@edr.com

Vessel contact Details: Bridge – 077920024164 email: orcadia@scotmarine.net Bridge - +31 88 8263825 email: Nordnes.ocm@vanoord.com

Survey Activity

Beatrice Offshore Windfarm Ltd – Nearshore UXO Survey

BOWL will be undertaking a UXO survey commencing in early January 2015, ahead of planned geotechnical surveys, to identify seabed ground conditions and the presence or absence of seabed unexploded ordnance (UXO) for the nearshore extent of the offshore export cable route.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBA</td>
<td>57º40.930’N 003º02.715’W</td>
<td>Early January 2015</td>
</tr>
<tr>
<td></td>
<td>57º40.751’N 003º01.721’W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>57º40.041’N 003º01.810’W</td>
<td></td>
</tr>
</tbody>
</table>

For further information: Dan Ford, 07970706146, dan.ford@cathie-associates.com; Johnny Wilson, 07584313497, Jonathan.wilson@sserenewables.com
### Seabed Activity

**Neart na Gaoithe Offshore Wind Farm – Metocean Buoy Deployment**

Neart na Gaoithe Offshore Wind Limited deployed two metocean buoys at their offshore Wind Farm site approximately 21km east of the Fife coast. Please find location details below. The buoys measure (1) wind speed and direction and (2) waves and currents; both buoys are deployed alongside each other.

Both buoys are painted to IALA standard, have an amber navigation light set to flash 5 times at 1Hz every 20 seconds.

Buoy (1) is moored using two delta flipper anchors with riser chains (max. 250m each). There are two pennant buoys floating on the surface above each of the two seabed anchors associated with the buoy. The pennant buoys are yellow, 1m long, diameter of 0.5m and are unlit. They are attached to the anchors by steel wire. Buoy (2) is moored via a single bungee line.

The buoys will be deployed within the Neart na Gaoithe Wind farm boundary, at the following co-ordinates:

1. 56°15.762’N  02°15.011’W  92m drift radius (anchors marked with pennant buoys at 56°15.875’N  02°15.032’W
2. 56°15.766’N  02°15.203’W  – 82m drift radius

Please note requirement for wide berth when passing buoys detailed below due to their large excursion as a result of their mooring configurations.

The buoys were deployed on 20 April 2014 and are expected to be removed within 18 January – 29 January 2015.

**For further information:** David Sweenie, Tel: +44(0)1412063861 Mob: +44(0)7889410550 email: david.sweenie@mainstreamrp.com

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### Seabed Activity

**Neart na Gaoithe Offshore Wind Farm – Metocean Buoy Deployment (NAREC)**

Neart na Gaoithe Offshore Wind Limited will be deploying two metocean buoys at the National Renewable Energy Centre (Narec) Blyth, to measure (1) wind speed and direction and (2) waves and currents; both buoys will be deployed alongside each other.

Both buoys are painted to IALA standard, have an amber navigation light set to flash 5 times at 1Hz every 20 seconds. Buoy (1) is moored using two delta flipper anchors with riser chains (max. 250m each). There are two pennant buoys floating on the surface above each of the two seabed anchors associated with the buoy. The pennant buoys are yellow, 1m long, diameter of 0.5m and are unlit. They are attached to the anchors by steel wire. Buoy (2) is moored via a single bungee line.

The buoys will be deployed at Narec, at approximately the following co-ordinates:

1. 55°08.704’N  01°25.159’W  92m drift radius, anchors will be marked with pennant buoys
2. 55°08.640’N  01°25.278’W  – 82m drift radius

Please note that there is a requirement for wide berth when passing the buoys due to their large excursion, as a result of their mooring configurations.

The earliest expected deployment will be within 18 January – 29 January 2015. The buoys will be in place for approximately 1-2 months.

**For further information:** David Sweenie, Tel: +44(0)1412063861 Mob: +44(0)7889410550 email: david.sweenie@mainstreamrp.com
Seabed Activity

**Inch Cape Offshore Limited – Met Masts Works**

Drace Infraestructuras UK Ltd is undertaking, on behalf of Inch Cape Offshore Limited, seabed preparation work for installation of a met mast.

**Coordinates**

<table>
<thead>
<tr>
<th>Met Mast</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>56°26.404'N 002°14.489'W</td>
</tr>
</tbody>
</table>

**Met Mast positioning**

The met mast has been installed at the position above. The co-ordinates for the corners of the embankment are as follows (point 3 is the north corner):

<table>
<thead>
<tr>
<th>Corner No</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>56°26.408'N 002°14.527'W</td>
</tr>
<tr>
<td>2</td>
<td>56°26.426'N 002°14.480'W</td>
</tr>
<tr>
<td>3</td>
<td>56°26.400'N 002°14.450'W</td>
</tr>
<tr>
<td>4</td>
<td>56°26.383'N 002°14.497'W</td>
</tr>
</tbody>
</table>

Installation and commissioning works will continue until 30/01/15. During the works the telescopic structure will be extended, and then the instrumentation, cables, and connections installed. Finally the data collecting system and satellite communication will be put in operation. Installation of the remainder of the instruments and other works will be postponed until the spring and are likely to be undertaken in April/May 2015.

During these works a crew transfer vessel will operate daily location (56° 26.404 N; 2° 14.489 W). The vessel will remain on site during the works. A utility vessel will handle materials between the met mast and Dundee Port.

Vessels: Bull Bay (2HDH3)  MV C-Odyssey (2ETW7)

**Scour protection**

Preliminary scour protection works will be undertaken in January 2015 with the remainder of the works being undertaken in April/May 2015. Works to be performed in January 2015 will consist of installing several gravel bags at the caisson corners. Those works will be performed using the C-Odyssey.

For further information: Mr Carlos Polimón, Drace Infraestructuas UK Ltd, Tel: 01349 856 416

Survey Activity

**Inch Cape Offshore Limited – Geotechnical Survey**

The site investigation works consist of a geophysical survey followed by geotechnical boreholes.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon Geosciences</td>
<td>56°35.678'N 002°10.138'W to 56°25.339'N 002°07.558'W</td>
<td>05/10/2014 [-15/02/15]</td>
</tr>
<tr>
<td>Horizon Geobay JETG2</td>
<td>56°27.796'N 002°02.839'W to 56°31.383'N 002°17.178'W</td>
<td>Until 15/02/15</td>
</tr>
</tbody>
</table>

For further information: Sarah Arthur, Repsol, Tel: +44(0)131 557 7135  email: sarah.arthur@repsol.com
Race Bank Offshore Wind Farm – Recovery of Seabed Frames

Please be advised Fugro have recovered two seabed frames with accompanying marker buoys at the Race Bank Offshore Wind Farm Project. The recovery took place on the 7th January 2015.

Positions:
1. 53° 14.896' N 000° 48.870' E
2. 53° 17.739' N 000° 48.511' E

For further information: Ralph Bostock, Fugro EMU Ltd, Tel: +44 (0)239 220 5500

Dudgeon Offshore Wind Farm – Survey

Blue Beta
1. 53°15.107'N 001°16.981'E
2. 53°18.469'N 001°17.254'E
3. 53°19.498'N 001°18.377'E
4. 53°20.320'N 001°20.940'E
5. 53°16.734'N 001°28.666'E
6. 53°15.598'N 001°28.564'E
7. 53°14.256'N 001°28.962'E
8. 53°13.722'N 001°27.958'E
9. 53°11.395'N 001°27.761'E
10. 53°11.109'N 001°27.392'E
11. 53°11.492'N 001°26.570'E
12. 53°11.408'N 001°24.977'E

15/01/2015 Until 07/02/2015

For further information: Callum Duffy, Forewind, email: callum.duffy@forewind.co.uk

Humber Gateway Offshore Wind Farm – Foundation Installation Phase 1

Construction of the wind farm is continuing as detailed below:

Array Cable Installation
- Atlantic Carrier: Array cable installation/ Transit to Bull Anchorage to WOW. D03 2nd end when weather permits.
- Fugro Saltire: Array cable trenching and installation/ Main lay and Second end pull in at I03, Installation of H02-F03, Second end pull H01-I02, Trenching, B04-OSP, and C04-OSP.
- Seajacks Leviathan: Accommodation platform / HGOS commissioning.
- Whalsa Lass: AHT for Atlantic Carrier.

Foundation and WTG Installation
- MPI Resolution: Vessel will be installing 6 WTG’s per cycle. Currently standing by at I05, WOW so as to Jack at G03.

Please note all peripheral foundations installed have Temporary Navigational aids fitted and are all operational

Project Wave Riders

<table>
<thead>
<tr>
<th>Wave Rider</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eon Tri-axe Wave Rider</td>
<td>53°38.768'N 000°18.022'E</td>
</tr>
<tr>
<td>Eon Data-well Wave Rider</td>
<td>53°38.199'N 000°15.846'E</td>
</tr>
</tbody>
</table>

Important Locations
Characteristics | Coordinates
--- | ---
Met Mast | 53°38.237'N 000°15.730'E
West Cardinal Lighted Buoy (N) | V Q (9) 10s  53°39.900'N 000°14.200'E
West Cardinal Lighted Buoy (S) | Q (9) 15s  53°37.000'N 000°15.600'E
South Cardinal Lighted Buoy | Q (6) + LFl 15s  53°36.500'N 000°17.400'E
East Cardinal Lighted Buoy (S) | Q (3) 10s  53°38.400'N 000°20.100'E
East Cardinal Lighted Buoy (N) | V Q (5) 5s  53°40.300'N 000°20.100'E

**Wet Storage of Anchors**

- 6 Anchors are currently wet stored around Foundation D03. These locations are marked with yellow cans and a separate buoy with Navigational aids. The buoys are all marked with reflective tape, Anchor number and the EON emergency mobile.

- Export Cable End Markers (Both cable ends have now been laid on the seabed. Please note a 800m exclusion zone has been implemented around the duct ends to protect the surface laid cable. *North End Cable buoy has come adrift and will not be replaced.

<table>
<thead>
<tr>
<th>Coordinates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>* North End Cable</td>
<td>53°39.248'N 000°15.181'E</td>
</tr>
<tr>
<td>South End Cable</td>
<td>53°39.280'N 000°15.215'E</td>
</tr>
</tbody>
</table>

For further information: Gordon Bain, Eon Tel:+44(0) 7787241442 or Nigel Proctor (Fisheries Liaison) Tel: +44(0)7702730891

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**Seabed Activity**

**London Array Wind Farm – Cable Exposure and Scour**

Blue Transmission London Array Ltd wish to notify mariners of an area of scour that has developed at the BritNed/London Array cable crossing and the presence of an exposed High Voltage cable.

Remediation works are almost complete. However, the works are required to be extended and will continue for an additional two months from the date of this notification weather permitting. It is recommended that an Advisory Exclusion Zone with a 200m buffer around the cable crossings is observed. VBMS using the Deo Gloria (a motor hopper vessel) is undertaking remediation works.

**Coordinates**

<table>
<thead>
<tr>
<th>Coordinates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>51°28.533'N 001°17.341'E</td>
<td></td>
</tr>
<tr>
<td>51°28.433'N 001°17.185'E</td>
<td></td>
</tr>
<tr>
<td>51°28.409'N 001°17.563'E</td>
<td></td>
</tr>
<tr>
<td>51°28.378'N 001°17.315'E</td>
<td></td>
</tr>
</tbody>
</table>

For further information: Paul Knight, Aqualis Offshore Ltd, Tel: +44(0)203 603 4357  email: paul.knight@aqualisoffshore.com

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**Seabed Activity**

**Teesside Offshore Wind Farm – Deployment of Buoy (Revised)**

Following consultation with fishermen, the originally proposed position of a wave buoy has been revised. The buoy is due to be deployed in early January 2015 and remain on site for a minimum of 3 years. The buoy will be maintained every 6 months.

**Coordinates**

54°38.910’N 01°05.130’W

EDF request that any further comments regarding the proposed location should be directed to our Fisheries Liaison Coordinator on the details shown below by 17th January 2015.

For further information: Simon Prince, Specialist Marine Consultants Ltd, Tel: +44(0)1723 892861  email: simonp@smchse.com

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Seabed Activity

Sherringham Shoal Wind Farm – Essential Retrofit Operations

The Vessel Rem Forza will be undertaking essential retrofit operations throughout the site from 24th November.

She will navigate onto the wind farm site through the North-East entry/exit gate between WTG (wind turbine generator) ShS (Sherringham Shoal) F1 in position 53°09.662'N 01°07.852'E and WTG ShS K5 in position 53°07.196'N 01°12.011'E.

The vessel is expected to remain on site for 8-10 weeks, and will make scheduled port calls during this time for supplies and crew changes. All entering and exiting site will be done through the North-East entry/exit gate.

All vessels are to give “Rem Forza” a 500m exclusion zone and to call the vessel on CH10 to request entry or transit through the exclusion.

For further information: Statkraft Marine, Tel: 01328 824356 email: SciraGMSciraMarine@statkraft.com

Survey Activity

Hornsea Round 3 Offshore Wind Farm – Geotechnical Survey

A Geotechnical Survey will be conducted in the subzone 1 turbine location area for Hornsea Project One.

<table>
<thead>
<tr>
<th>Company, Vessel &amp; Call Sign</th>
<th>Area Covered</th>
<th>Start Timeframe &amp; Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMart Wind Ltd</td>
<td></td>
<td>17/11/2014</td>
</tr>
<tr>
<td>MV Bucentaur</td>
<td></td>
<td>Until 30/03/2015</td>
</tr>
<tr>
<td>Call Sign: C6SU4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greatship Manisha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Call Sign: 9V7823</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For further information: Chris Jenner, SMart Wind Ltd, Tel: 07889 410553 email: chris.jenner@mainstreamrp.com
Seabed Activity

Gwynt y Môr Offshore Wind Farm – Construction Activities

Windfarm construction is complete. Commissioning of the windfarm continues and rock armour layer / cable protection work continues at various locations on site.

There are currently two Notices to Mariners in force for the windfarm site:

1. Scour Protection works - this is being carried out by the vessel Tideway Rollingstone.
2. FLIDAR Anchor buoyage - two navigation buoys are in place to mark the locations of 3 anchors on the seabed.

UPDATE - Mariners are advised that the flashing light on one of the navigation buoys is reported to be faulty, and to navigate with caution in the vicinity of these buoys during hours of darkness / poor visibility.

For a copy of the Kingfisher Awareness Flyer for the Gwynt Y Mor Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: Gwynt Y Mor Offshore Wind Farm

For further information: Lee Cornwell, RWE npower renewables, Mob: +44 (0) 7557 319473, Email: lee.cornwell@rwe.com

Seabed Activity

West of Duddon Sands Offshore Wind Farm – Construction

The West of Duddon Sands offshore wind farm is a joint venture between DONG Energy West of Duddon Sands (UK) Limited and ScottishPower Renewables (WoDS) Limited.

All of the Inter-Array or Infield cables have been buried and, dependant on weather and conditions, the survey vessel ‘MS Line’ is continuing with a depth of burial survey to confirm burial depth and acceptance, ‘MS Line’ is expected to be joined by the survey vessel ‘Sander 2’ shortly

Discontinuance of fog horn signal at the SW corner of Walney 1 Wind Farm - Turbine F01 54°00.135’N 003°33.382’W

The Wave Rider Buoy in Lune Deep has been moved to a new position:54°00.080’N 002°58.370’W Fl.Y(5) 20s-range 1nm

There is a Wave Rider Buoy in position : 54°00.000’N 003°26.000’W Fl.Y(5) 20s - range 1nm All Turbines have been installed.

Boundary of Location Activities:

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>54°00.15’N</td>
<td>003°33.52’W</td>
</tr>
<tr>
<td>54°01.78’N</td>
<td>003°26.67’W</td>
</tr>
<tr>
<td>53°56.35’N</td>
<td>003°22.80’W</td>
</tr>
<tr>
<td>53°56.34’N</td>
<td>003°23.37’W</td>
</tr>
<tr>
<td>53°56.72’N</td>
<td>003°29.33’W</td>
</tr>
</tbody>
</table>

For a copy of the Kingfisher Awareness Flyer for the West of Duddon Sands Offshore Wind Farm, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: West of Duddon Sands Offshore Wind Farm

For further information: Dan Torben Christensen, Dong Energy, Tel: +44(0)7528921388 email: danch@dongenergy.dk
Seabed Activity

Robin Rigg Offshore Wind Farm

Mariners should note that several of the lights on the Turbine Identity boards at various locations around the WIND FARM are malfunctioning; these are not considered as a navigational hazard as the markings are retro-reflective and readable from a given distance.

A programme to replace any defective lights and overhaul existing ones will be carried out in the New Year.

The Navigation and Aviation lights are fully functioning and working as normal.

Due to ongoing inspection and maintenance work being carried out on Turbine RR C05 (54deg 45.64min N, 003deg 41.56min W) a 50 meter Safety Exclusion Zone is to be maintained at all times around this Turbine until further notice.

All non-Wind Farm vessels that require access to the Wind Farm, for any reason, are requested to contact the EON European Control Room on 0845 3014712.

For a copy of the Kingfisher Awareness Flyer for the Robin Rigg Offshore Wind Farm or Fishing Plotter CD, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

Kingfisher Awareness Flyer: Robin Rigg Offshore Wind Farm
Kingfisher Fishing Plotter CD: Robin Rigg Offshore Wind Farm

For further information: Tom Watson, Tel: 01253 875565, Mob: 07903 173 624

Walney 3 Offshore Wind Farm – FLiDAR Wave Buoy

The technical problems that were causing a delay to the deployment of the new Wave Buoy within the proposed Walney 3 (Extension) Wind Farm Site have now been rectified and the Wave Buoy will be deployed at the first available weather window.

The Buoy will be placed on a single point mooring attached to a clump weight and will exhibit a Fl (5) Y 20s light, the flash rate of which will not exceed 30 per minute.

The buoy will also be equipped with radar reflectors and will remain at this location for a period of at least one year in the following position: 54°08.042’N 03°54.868’W

For further information: Tom Watson, Tel: 01253 875565, Mobile: 07903 173624

Produced by The Kingfisher Information Service of Seafish, in conjunction with The Crown Estate.
Any queries please contact Kingfisher Information Services, Sea Fish Industry Authority, Humber Seafood Institute, Origin Way, Europarc, Grimsby, DN37 9TZ
email: kingfisher@seafish.co.uk website: www.kingfishercharts.org tel: +44 (0)1472 252307 fax: +44 (0)1472 268792