Subsea Cables

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Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote the awareness of offshore hazards to fishing, new structures and zones and conflicting offshore operations. Support for the production of subsea cables industry information is received from The Crown Estate and the European Subsea Cables Association (ESCA).

Information

Information contained within the Kingfisher Bulletin comes from a variety of sources, although in the majority, supplied directly to Kingfisher from the offshore operating industry, or government licensing authorities.

Coordinates within the Kingfisher Bulletin are converted into World Geodetic System 1984 (WGS84) and displayed as degrees, minutes and decimal minutes, to three decimal places (ddd°mm.mmm'). Route or boundary coordinates may be simplified for ease of use.

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# New Hazards

## Area 1 Hazard List

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Mattress 13Te (6m x 3m x 300mm)</td>
<td>61°23.699'N 001°44.424'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Concrete Mattress 13Te (6m x 3m x 300mm)</td>
<td>61°22.779'N 001°43.834'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxWxH)</td>
<td>61°23.836'N 001°44.434'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxWxH)</td>
<td>61°23.831'N 001°44.437'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxWxH)</td>
<td>61°22.764'N 001°43.836'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Large Anchor</td>
<td>59°03.027'N 000°18.516'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:bbennett@oilandgasuk.co.uk">bbennett@oilandgasuk.co.uk</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>New Suspended Wellhead – 205/21a-7Z</td>
<td>60°11.959'N 003°51.841'E</td>
<td>03 Nov 2016</td>
<td><a href="mailto:kirsty.m@petrofac.com">kirsty.m@petrofac.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Mooring Chain</td>
<td>61°28.514'N 004°30.905'E</td>
<td>22 Sept 2016</td>
<td><a href="mailto:npoim@enquest.com">npoim@enquest.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Enquest Water Injection Flowline - Crater</td>
<td>61°28.383'N 001°30.767'E</td>
<td>28 July 2016</td>
<td><a href="mailto:Linda.Bremner@enquest.com">Linda.Bremner@enquest.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Exposed cut end of pipe</td>
<td>61°04.102'N 001°24.107'E</td>
<td>14 July 2016</td>
<td><a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
</tbody>
</table>

## Area 2 Hazard List

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kessog 30/01c-09–SSXT 2.75m protruding</td>
<td>56°50.662'N 002°10.008'E</td>
<td>22 Sept 2016</td>
<td><a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Cement Block</td>
<td>57°49.735'N 001°02.347'E</td>
<td>25 Aug 2016</td>
<td><a href="mailto:Brian.Beattie@nexencnoocltd.com">Brian.Beattie@nexencnoocltd.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>New Suspended Wellhead – 21/19-13</td>
<td>57°22.931'N 000°43.018'E</td>
<td>28 July 2016</td>
<td><a href="mailto:Marcelle.wynter@oga.gsi.gov.uk">Marcelle.wynter@oga.gsi.gov.uk</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
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## Area 3 Hazard List

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand rails, ladder 3m x 3m</td>
<td>53°39.656'N 000°54.364'E</td>
<td>01 Dec 2016</td>
<td><a href="mailto:susan.mackenzie@centrica.com">susan.mackenzie@centrica.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>6 tonne elastomer buoy</td>
<td>53°23.917'N 002°14.033'E</td>
<td>06 Oct 2016</td>
<td>David King <a href="mailto:92oim@enscoplc.com">92oim@enscoplc.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Lost Wire</td>
<td>53°24.177'N 002°13.896'E</td>
<td>06 Oct 2016</td>
<td>David King <a href="mailto:92oim@enscoplc.com">92oim@enscoplc.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
<tr>
<td>Dropped objects in East Anglia Wind Farm</td>
<td>52°16.665'N 002°31.323'E</td>
<td>14 July 2016</td>
<td><a href="mailto:v.griffiths@fugro.com">v.griffiths@fugro.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
</tbody>
</table>

## Area 5 Hazard List

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Position</th>
<th>Issue Date</th>
<th>Contact Details</th>
<th>Map</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lost Dredge Suction Pipe</td>
<td>53°26.943'N 003°24.691'E</td>
<td>15 Nov 2016</td>
<td><a href="mailto:graham.singleton@cemex.com">graham.singleton@cemex.com</a></td>
<td><img src="https://twitter.com" alt="Twitter" /></td>
</tr>
</tbody>
</table>

The Hazard List is a collection of potential fishing hazards supplied to Kingfisher from across all offshore industries. Potential hazards will be listed for 6 months.
Exposed Cable Sections – SHEFA 2 Subsea Cable

The Shefa-2 submarine cable, running between Banff, Orkney, Shetland and Faroes has suffered from several cable breaks since deployment in 2007. A re-deployment was completed successfully late in 2014 and the majority of exposed areas are now buried.

However, Shefa urgently has to stress that a further few areas of the Shefa-2 segment 7, 8 & 9 are unburied and therefore exposed. Especially we need to highlight a limited exposed area on the segment running between Manse bay in Orkney and Banff in Scotland between the following positions:

A: 58°47.208’N 002°46.617’W and   B: 58°47.300’N 002°46.763’W

This area represents a hazard to fishing and should be avoided at all times. The latest route of the cable may be seen on the KIS-ORCA Fishing Plotter disk released January 2015 and may be downloaded from www.kis-orca.eu/downloads

For a copy of the Kingfisher Awareness Flyer, showing the exposed sections of SHEFA from December 2013, please contact the undersigned. Alternatively, click on the link below, or visit www.kingfishercharts.org

For further information: Tel: +298243602, Email: phv@ft.fo, brr@ft.fo
Cable Repairs – Concerto 1 North

Recently there have been several repairs to the Concerto 1 North cable due to the mobile nature of the seabed. These repairs are post repair buried but remain more vulnerable than other sections of the cable. For all details of the current status of the cable please see the up to date Kingfisher Awareness Flyer. This may be obtained by clicking the link below or by visiting www.kingfishercharts.org

Please note that the following chart has been updated.

For further information: Neil Donovan, Interoute Communications Ltd, e-mail: neil.donovan@interoute.com

Hazardous Condition of Cable – Ulysses South Landing (St Margaret’s Bay)

Please note that further to earlier notices, the Ulysses South submarine cable landing at St Margaret’s Bay, near Dover, remains broken at position: 51°08.70’N 01°24.06’E. This position lies approximately 1.3km offshore in a water depth of 15 metres.

As a result of this fault, the cable at the approaches to St Margaret’s Bay has been dragged an indeterminate distance to the north of its as laid route on either side of the fault position. Caution should therefore be exercised in this area until the cable repair operation has been carried out.

A map of the hazardous position may be seen by clicking on the ‘Map Link’ in the top right corner

For further information: Steven Bennett, Global Marine, Tel: +44 7557 908179 email: Steven.bennett@globalmarinesystems.com
Notice to Fishermen
Published: 01 December 2015  |  Latest Update: 01 December 2015

Emergency Repair – UK Channel Islands 8 UK/France EEZ

Global Marine Systems Ltd has been contracted to undertake emergency repair to the UK Channel Islands 8 submarine fibre optic telecommunications cable in UK/France EEZ.

49°30.777'N 004°01.845'W Bucy Deployed 49°30.700'N 004°01.700'W

The CS Wave Sentinel is scheduled to arrive on site 30th November 2016 to commence works. The estimated location is 49°30.777'N 004°01.845'W, and the duration of the cable repair will be approximately 5 days depending upon weather or other operational conditions.

The vessel will be limited in manouevrability and other vessels should maintain a distance of at least 1NM from the cable ship during operations, and 1/4NM from any cable buoys in place during the course of the repairs for safety.

For further information: John Wrottesley, Global Marine Systems Ltd, Tel: +44 1245 702009 email: John.Wrottesley@globalmarinesystems.com

Notice to Fishermen
Published: 08 October 2015  |  Latest Update: 08 October 2015

Exposed Cable Sections – Apollo South Cable (SW Approaches)

On behalf of Apollo SCS Ltd, fishermen are advised that following a recent repair to the Apollo South subsea telecoms cable there now exists a section of exposed/unburied cable in the vicinity of

49°04.76N Long 006°41.59W

Due to the nature of the seabed in this area the cable is exposed and could be a hazard to fishing. Fishermen are asked to ensure that they have the route of the Apollo South cable accurately plotted on their fishing charts. Trawler skippers are respectfully asked to exercise caution when trawling in the vicinity of the Apollo South cable and to keep beyond a distance of at least 500 metres from the charted cable route and where at all possible to avoid trawling directly over the cable route. Static gear fishermen are advised not to deploy anchors and end weights in close proximity of the cable.

For further information: Colin Richards, Apollo SCS, Tel: +44(0) 1404 46323  email: colinrichards@networkmarine.fsnet.co.uk

Notice to Fishermen
Published: 22 September 2016  |  Latest Update: 01 December 2016

North Coast of Cornwall – Wave Hub Subsea Cable Safety Notification

Please be advised that following the recent installation of the Wave Hub Cable Tail Extensions across the offshore Renewable Energy Development Area that the subsea electrical system is now live at 33kV.

The following safety information should be carefully digested by any mariner operating in the vicinity of the Wave Hub offshore site or export cable:

1) Four new and exposed cable tails have been installed across the charted offshore Renewable Energy Development Area (KP chart and RPLs attached). These cables are stabilised against current and wave action and supported where free-spans occur with rock bags but are not otherwise protected from anchors or fishing gear.

2) Due to varying sediment depths, the Wave Hub main export cable remains exposed in places in St Ives Bay. From KP 1.9 to KP 8.1 the subsea power cable is in parts exposed or carries a high risk of exposure (KP chart and RPLs attached). From the shore to KP1.9 the subsea power cable is buried and from KP 8.1 to the Wave Hub itself (KP 25) the subsea power cable is surface laid and covered by a continuous rock berm.

Cable exposure limits (Wave Hub subsea export cable):

<table>
<thead>
<tr>
<th>KP</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Seabed Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 1.90</td>
<td>50°12.691' N</td>
<td>005°28.639' W</td>
<td>12.5m</td>
</tr>
<tr>
<td>To 8.10</td>
<td>50°14.222' N</td>
<td>005°29.945' W</td>
<td>27.2m</td>
</tr>
</tbody>
</table>

For further information: Julius Besterman, Wave Hub, Tel: 01736 800291, Mobile: 07825 943738  http://www.wavehub.co.uk/notice-to-mariners
Hugo Seg 1 – Cable Repairs

Due to work on the Hugo subsea cable, there remains vulnerable and hazardous sections. Due to the nature of the sea bed, although all efforts had been made to bury the cable and associated joint boxes, only minimal or reasonable coverage was achieved.

Section 1 – Repair section of over 4km including final splice bight (minimal coverage)

Extreme caution should be exercised if working between: 49°39.163N 004°59.495W and 49°38.310N 004°56.427W

Section 2 – Repeater installation at 49°35.576 N 004°46.785W (minimal coverage)

Extreme caution should be exercised if working between: 49°35.657N 004°47.079W and 49°35.519N 004°46.553W

Section 3 – Repeater installation at 49°36.675N 003°35.049W (reasonable coverage)

Caution should be exercised if working between: 49°36.671N 003°35.322W and 49°36.675N 003°34.752W

For further information: Jon Ford at Vodafone, Tel: +44 7776 165571 email: jon.ford@vodafone.com

Exposed Cable Sections – CIEG Guernsey (Jersey 90kv Subsea Power)

Due to repair works, two sections of cable remain unburied. Cables and joints are lying exposed on the sea bed and are a hazard to fishing and at risk of being damaged.

Cable Repair 1 – Jersey to Guernsey (2012)
The repaired sections lay between 49°22.736’N 002°29.220’W and 49°22.360’N 002°28.494’W and has a hairpin bight facing west south west extending for 370 meters to 49°22.610’N 002°29.412’W as shown in the image within the Map Link.

Cable Repair 2 – Jersey to Guernsey (2015)
The repaired sections lay between 49°26.965’N 002°31.422’W to 49°26.873’N 002°31.125’W where it then heads south to 49°26.584’N 002°31.191’W. The hairpin bight facing west south west extending for 70 meters to 49°26.887’N 002°31.321’W as shown in the image within the Map Link.

Please exercise caution when carrying out work such as trawling in these areas.

For further information: Heidi Le Noury, Channel Island Electricity Grid, Tel: +44(0)14781 241977, Email: Heidi.LeNoury@electricity.gg
The vessel Normand Pacific is due to commence Post Lay Installation Burial Works along part of the Western HVDC Link cable route, starting in December 2016. This update provides a brief summary of the detail included in the Notice to Mariners describing this work, which can be downloaded here.

The location of rock protection areas on the completed sections of the cable route to the south of the Isle of Man, and on the location of exposed cable areas that are presently awaiting burial or protection in the North Channel - Firth of Clyde area. The Notice to Mariners providing information on these locations can be downloaded here.

**Post Lay Installation Burial Works**
Post Lay Installation Burial Works (PLIB) are due to be carried out by the Normand Pacific using a jetting tool. This will be used to bury sections of exposed cable. Areas where jetting is not possible (such as service crossings) will be protected at a later stage in the project.

These works will be carried out along the completed sections of the cable route in the North Channel and the Firth of Clyde. The work is due to commence in December 2016 and to be completed in January 2017. The notice to mariners describing this work can be downloaded here.

**Vessel details**
Details of the vessels involved: Normand Pacific: Multi Purpose Offshore Vessel | Call sign LAXI7 The vessel will be monitoring VHF Channel 16 throughout the operation.

The vessel involved in this work will be restricted in its ability to manoeuvre and other vessels are reminded to navigate with caution in their vicinity and pay strict attention to instructions issued to them by navigation authorities.

**Rock Protection and Exposed cable locations**
A notice has been issued to provide an update on the location of rock protection areas along parts of the route where construction work has been completed, and also the location of exposed cable sections along parts of the cable route where installation work is on-going. This notice is summarised below and can be downloaded here.

**Rock Protection Areas**
Mariners are advised that the rock placement works to the south of the Isle of Man have been completed. Guard vessels are no longer stationed in this area as the cable has now been protected by burial and rock placement.

Mariners are advised to take note of the location of the rock protection on the cable route. The height of the rock protection within the areas indicated is approximately 0.8m, and the rock berm has been designed to have a 1:3 gradient. The rock berms may therefore extend approximately 3m either side of the cable. The locations of the rock protection areas are listed in Table 1 of the Notice to Mariners, which can be downloaded here.

**Exposed Cable Locations**
There are several sections of exposed cable along the cable route including the planned cable crossing locations previously communicated through notice to mariners. These sections are currently being monitored by Guard Vessels which have been deployed locally. To assist all mariners, a consolidated list of exposed cable locations (as of 22nd November 2016) has been compiled. This list can be downloaded here.

Vessels are requested to pass at a safe speed and distance and fishing vessels are advised to remain a safe distance (approximately 1.5 nautical miles) from the areas identified. Guard Vessels have been deployed at each location to aid in monitoring the exposed areas and advise of safe distances locally.

The locations of these exposed sections are shown in Table 2 of the Notice to Mariners which can be downloaded here.

**Guard vessels**
Guard vessels have been stationed along the cable route during installation and burial to ensure the safety of marine users. They will remain in position until cable protection operations are completed to advise mariners of the location of exposed cable. In areas where the cable crosses other cables and pipelines that are in service, the guard vessels will remain on station until cable protection has been completed in these locations (either through concrete mattressing or rock placement).

The Notices to Mariners that are presently in force for this project are:-

- **Post Lay Installation Burial Works** - this is the notice described above. It was issued on 22nd November 2016 and provides information about the cable burial work for Campaigns 3 & 6 of the cable route which will be carried out between December 2016 and January 2017. The notice can be downloaded here.
- **Rock Protection Areas and Exposed cable locations, Irish Sea** - this notice is also described above. It provides an update on the locations of rock protection areas and exposed cable locations which are awaiting protection as of the 22nd November 2016. The notice can be downloaded here.
- **Concrete mattressing** - along the cable route concrete mattresses have been laid at crossings of existing cables and pipelines. A notice to mariners about the mattressing campaign conducted in 2015 can be downloaded here.

For further information: Jim Andrews, Fisheries Liaison Officer, Tel: +44(0)7908225865 email: jim@awjmarine.co.uk
Notice To Fishermen

Isle of Man Interconnector Cable – Update 2016

The Isle of Man Interconnector Cable runs beneath the sea between Douglas on the Isle of Man, and Bispham on the Lancashire coast. It was installed in September 2000 and spans a distance of 104km (56 nautical miles), linking the Isle of Man to the UK National Grid.

Information for Mariners - 2016 Update

An updated version of the information leaflet for mariners about the IOM Interconnector Cable has recently been produced and can be downloaded here.

Cable Protection

At several points along the cable route the cable is surface laid where there are joints between sections of the cable and where it crosses other cables and pipelines.

To protect the surface laid cable and to ensure that fishing can continue safely along the route, protective mattresses have been installed at six locations. Details of these locations are given in maps here.

Surveys in 2011 found that there was some movement of the rock mattresses closest to the Lancashire coast. You can download a notice about potential hazards in this area here.

Exposed Cable

The seabed close to the Lancashire coast is very mobile. Parts of the cable lying within 2 nautical miles of the coast may occasionally be exposed by movements of the sand on the seabed. The Manx Cable Company monitor the cable carefully along this part of the route, and published a notice to mariners based on recent survey information here.

Background information

More information about the IOM Interconnector cable can be found on our website here. The Manx Cable Company is part of Manx Utilities. More information about the Manx Cable Company can be found here.

For further information: Jim Andrews, Fisheries Liaison Officer, Tel: +44(0)7908225865 email: jim@awjmarine.co.uk

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Notice to Fishermen

Exposed Cable and Poor Burial – Sirius South Cable

Mariners are advised that there is sections of Exposed Cable & Poor Burial of this section of the Sirius South Cable.

From: 53°43.383'N 4°20.306'W
To: 53°43.383'N 4°20.306'W

Also Exposed Section of Cable: 53°43.383'N 4°20.306'W

For further information: Peter Jamieson, Virgin Media, email: peter.jamieson@virginmedia.co.uk

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Notice To Fishermen

Hazard - Hibernia Segment C – Abandoned Gear & Vulnerable Cable

Incident involving a fishing vessel snagging its gear. GMSL’s understanding is the MCA advised the vessel (Siobhan 3) to slip it’s gear due to the proximity of the Hibernia Segment C subsea cable

The position given was 53°50.340N:004°55.832W, south of the Isle of Man, although it cannot be confirmed if the gear was snagged on the cable.

For further information: Steven Bennett, Global Marine Systems Ltd, Tel: +44 1245 702113 email: Steven.Bennett@globalmarinesystems.com
Fishing Hazard – Exposed Subsea Cable, Beam Trawl and Wire

Please be advised that, following entanglement with a subsea cable, a beam trawl and scallop gear have been discarded at the position below.

The fishing gear is entangled with the subsea cable and poses a significant hazard to fishing (L: 10m x H: 2m). There is also over 80m of exposed cable in the vicinity, due to the trawl dragging the cable from its original position.

The position is:  **55°22.915'N   06°35.917'W**

It was advised that the fishermen cut away both sides of his fishing gear and up to 200 fathoms of wire rope.

Please exercise extreme caution whilst fishing in this area.

For further information: Alasdair Wilkie, Hibernia, Email: alasdair.wilkie@hibernianetworks.com, Tel: +44 1704 322 306, Mobile: +44 7850 770 577
Notice To Fishermen

Cable Repairs – TAT 14 (Segment K)

During the last four years there have been several repairs to the TAT 14 segment K cable North of Scotland from the Fair Isle Channel to the Continental Shelf edge and slope. For all details on the current status of the cable please see the up to date Kingfisher Awareness Flyers. These may be obtained by clicking on the links below, or by visiting www.kingfishercharts.org

Please note that the following charts have also been updated.

- Kingfisher Flyer: Sprint 2013 - ENGLISH
- Kingfisher Flyer: Sprint 2013 - FRENCH
- Kingfisher Flyer: Sprint 2013 - FAROESE
- Kingfisher Flyer: Sprint 2013 - RUSSIAN

For further information: Barry Peck, Sealine Marine Services, Email: bepeck@sealine.org.uk