

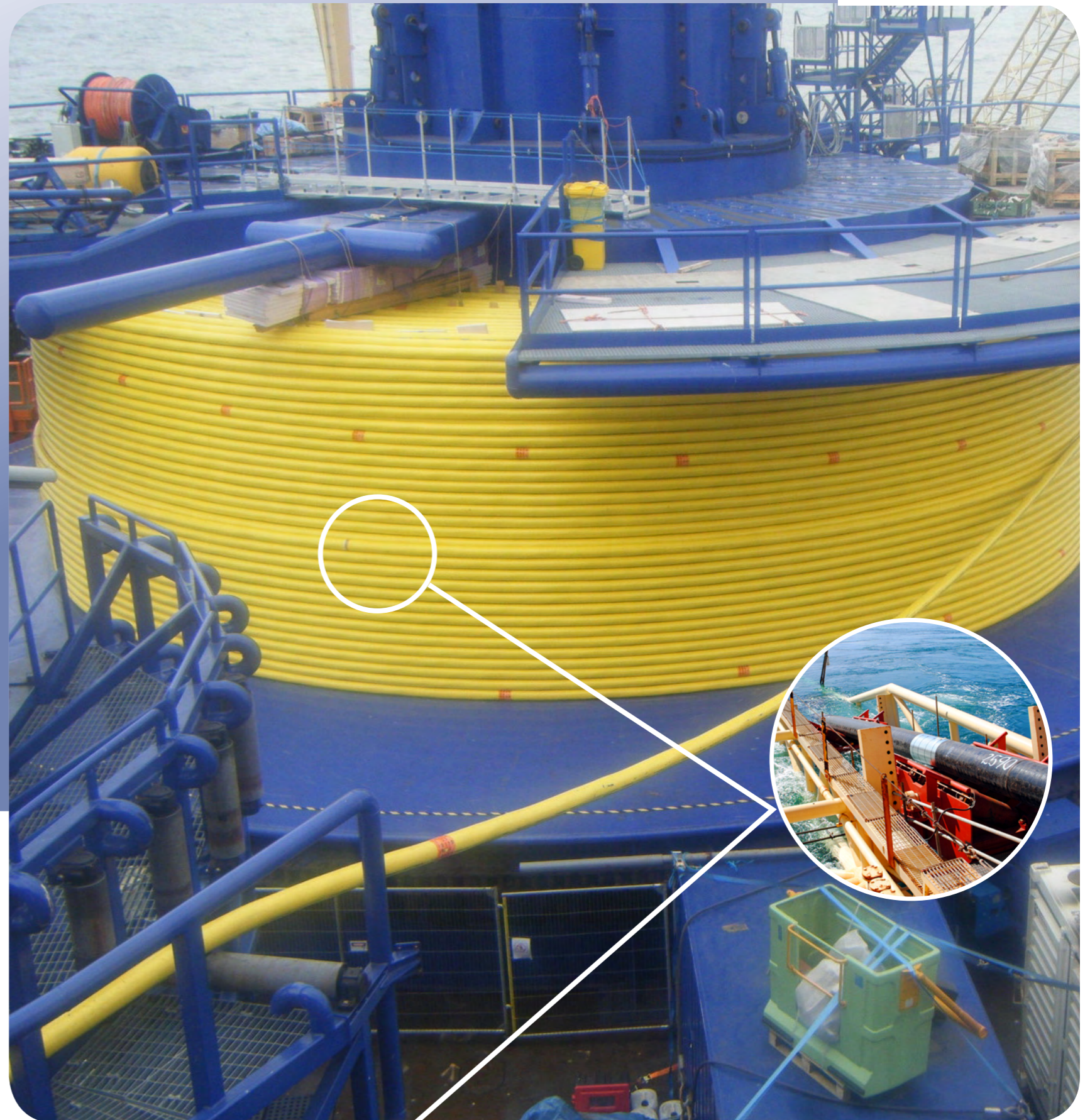
National Grid NSN Link Limited

Norway-UK Interconnector

UK Marine Environmental Statement

Appendix Volume 1 - Figures

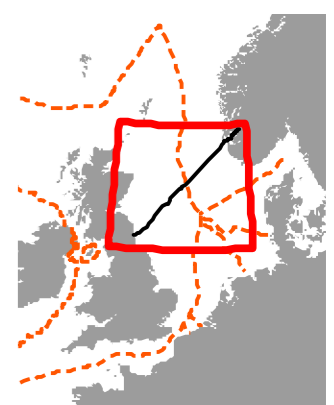
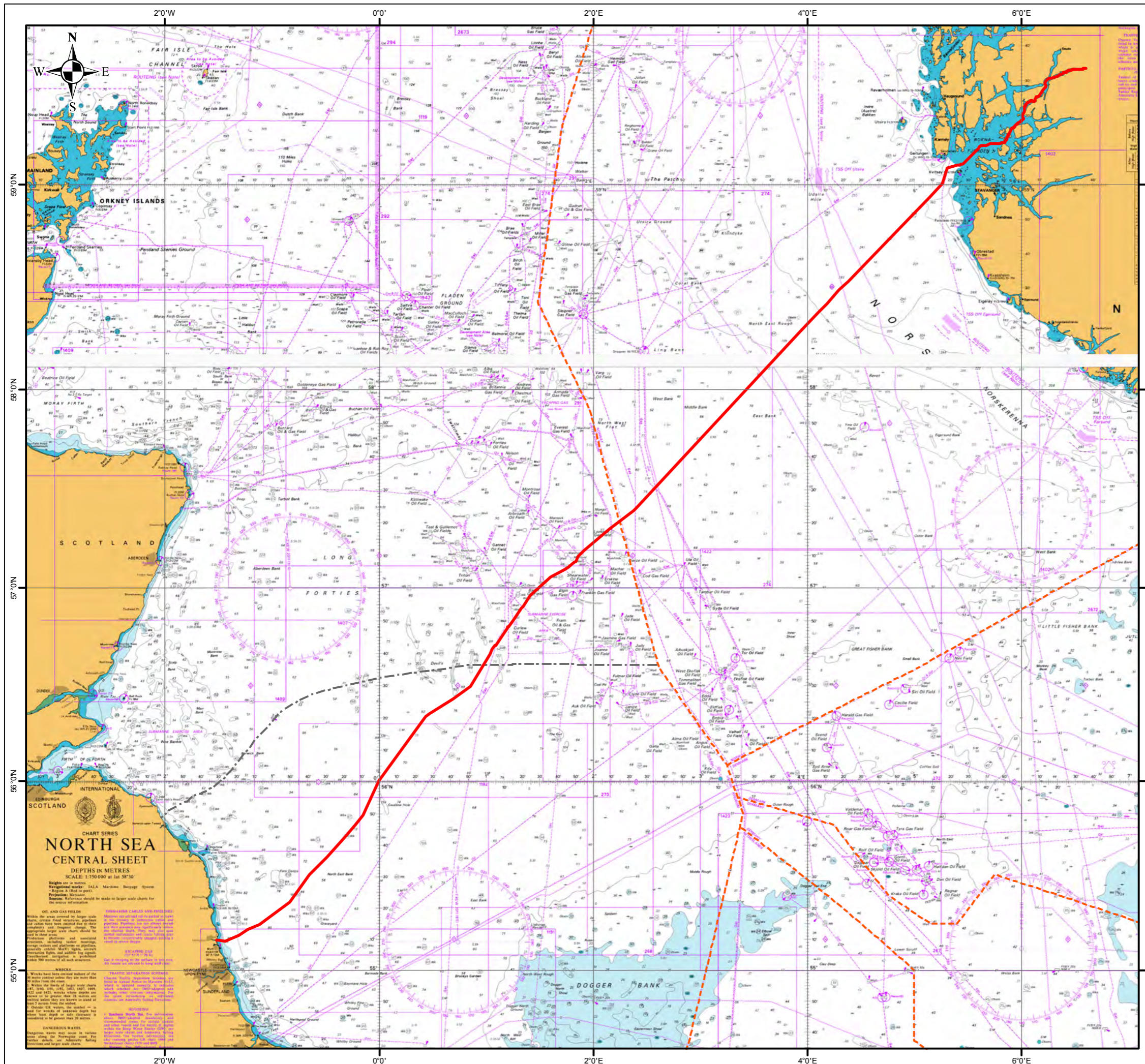
March 2014



**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector**
Figure 1.1 Geographical Overview

Legend

- Proposed Marine Cable Route
- - - Scottish/English Median Line
- - - Median Line

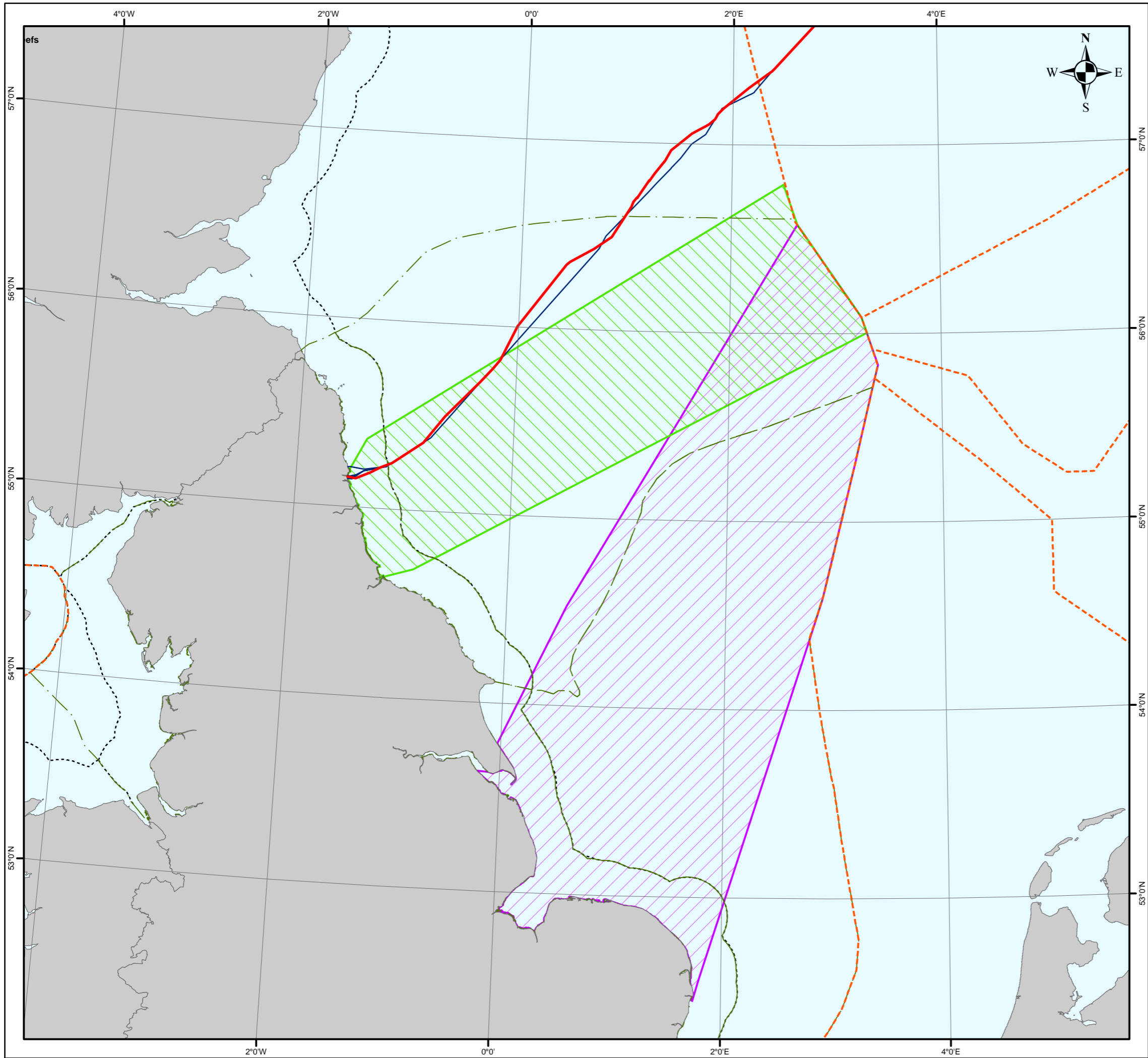


Date	Monday, November 11, 2013 10:41:16
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	UKDEAL, UKHO, GEBCO
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig01_1_Overview.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglis

nationalgrid Statnett Intertek
Valued Quality. Delivered.

0 20 40 80 120 160 200 km

© Metoc Ltd, 2013. All rights reserved.



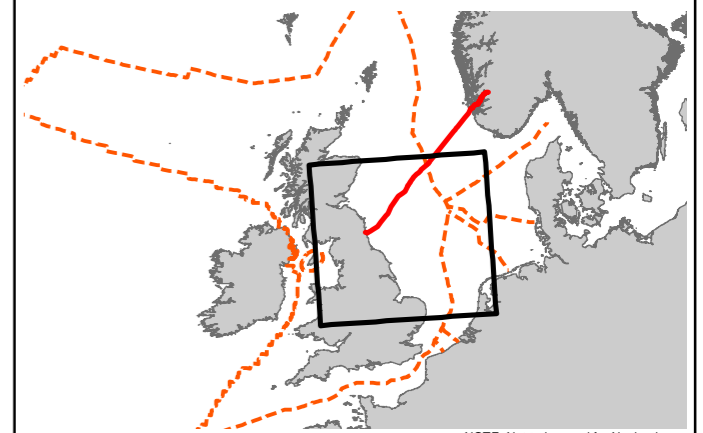
Contains Ordnance Survey data © Crown copyright and database right 2013

National Grid International Ltd and Statnett SF Norway - UK Interconnector

Figure 2.1 Study Areas

Legend

- Final Proposed Marine Cable Route
- Desk Top Study Route
- - - Median Line
- - - - UK 12nm limit
- - - - MMO Marine Plan Boundary
- ▨ Feasibility Report II Study Area
- ▨ Constraints Report Study Area

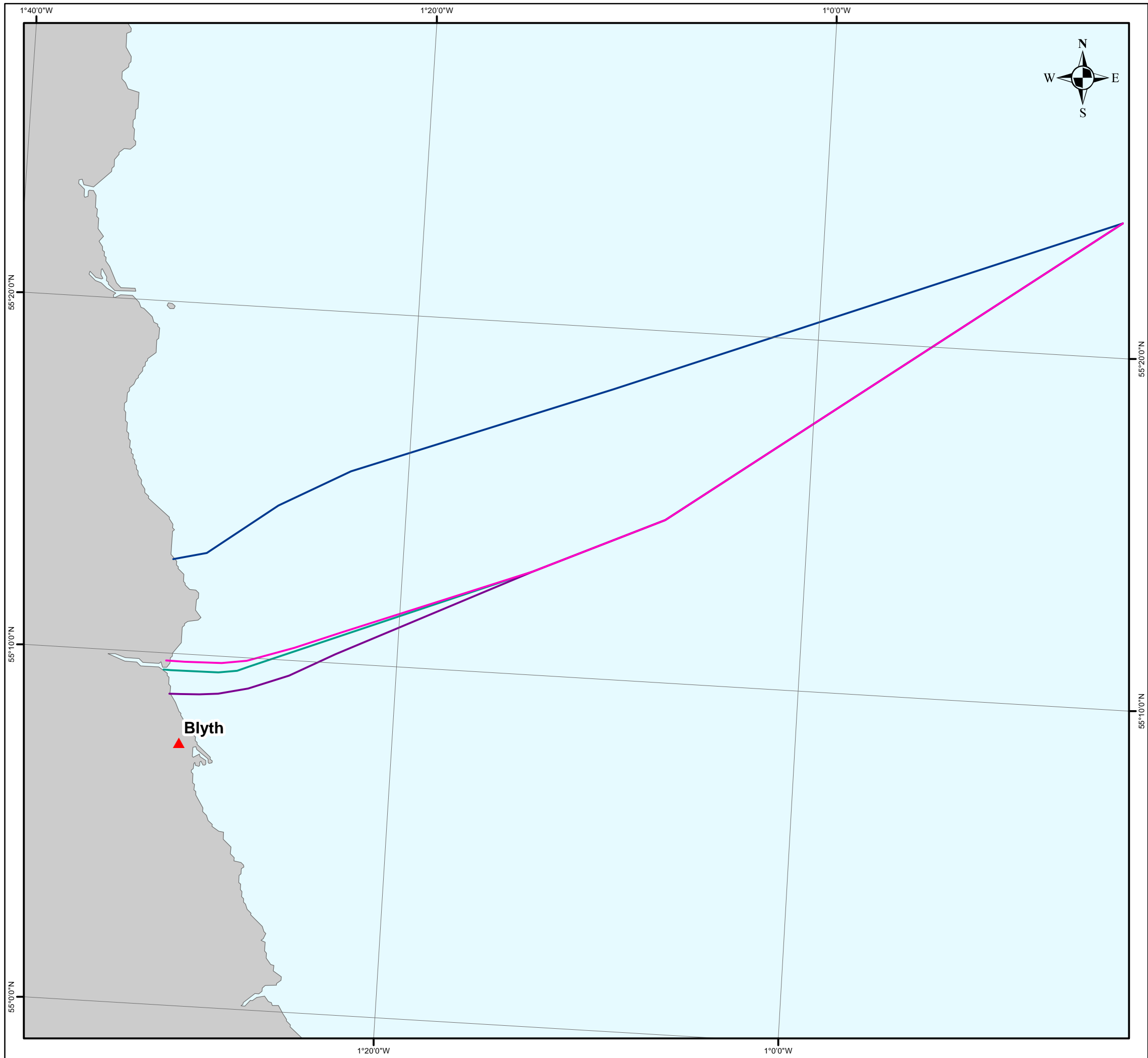


NOTE: Not to be used for Navigation

Date	Wednesday, November 13, 2013 09:06:03
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, GEBCO, MMO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig02_1_Study_Areas.mxd
Created By	David Bower
Reviewed By	To be reviewed
Approved By	To be approved

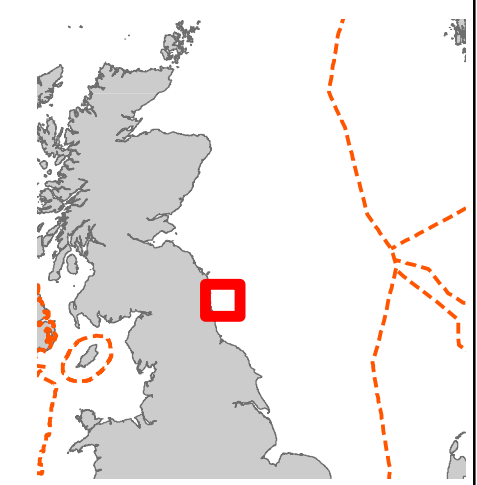
Valued Quality. Delivered.

© Metoc Ltd, 2013. All rights reserved.



**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 2.2 Landfall Route Options Considered

- Legend**
- Sandy Beach
 - Cambois Beach
 - Cambois Slipway
 - Lyne Sands



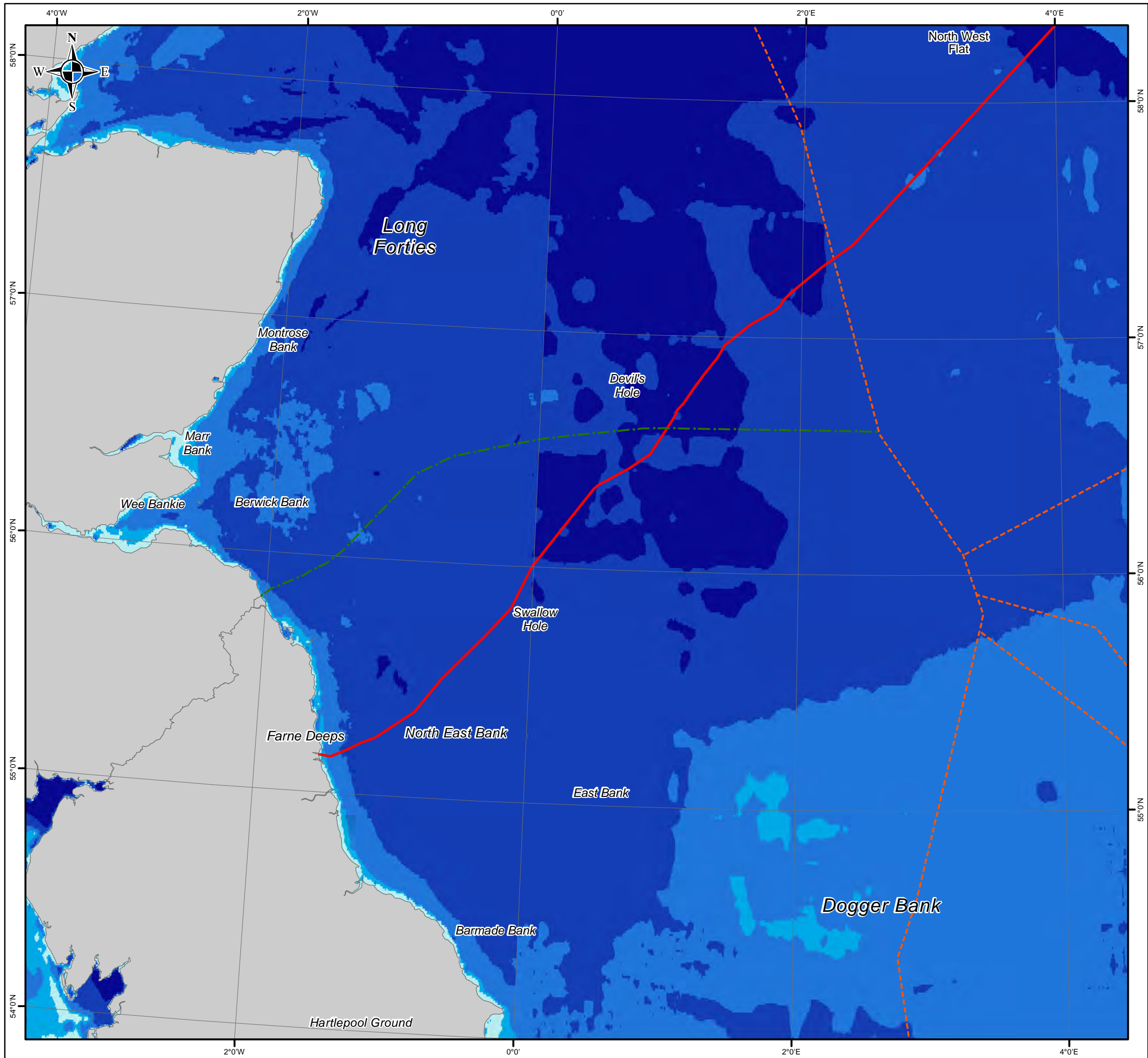
Date	Friday, February 21, 2014 12:09:06
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	MMO, 2012, GEBCO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure 2.2 Landfall Route Options.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley



 Valued Quality. Delivered.




© The GEBCO Digital Atlas published by the British Oceanographic Data Centre on behalf of IOC and IHO, 2003



**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector**

Figure 7.2 Bathymetry

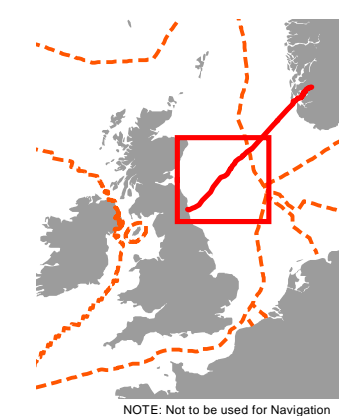
Legend

- Proposed Marine Cable Route
- - - Scottish/English Median Line
- - - Median Line

GEBCO Bathymetry

Depth below sea level (m)

- 0 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- 100 - 200

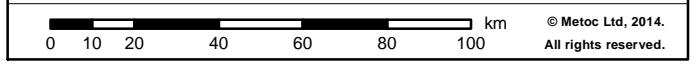


NOTE: Not to be used for Navigation

Date	Thursday, August 8, 2013 09:13:20
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, GEBCO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_7_1_Bathymetry.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Jill Hobbs



Valued Quality. Delivered.



© Metoc Ltd, 2014. All rights reserved.

**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector**

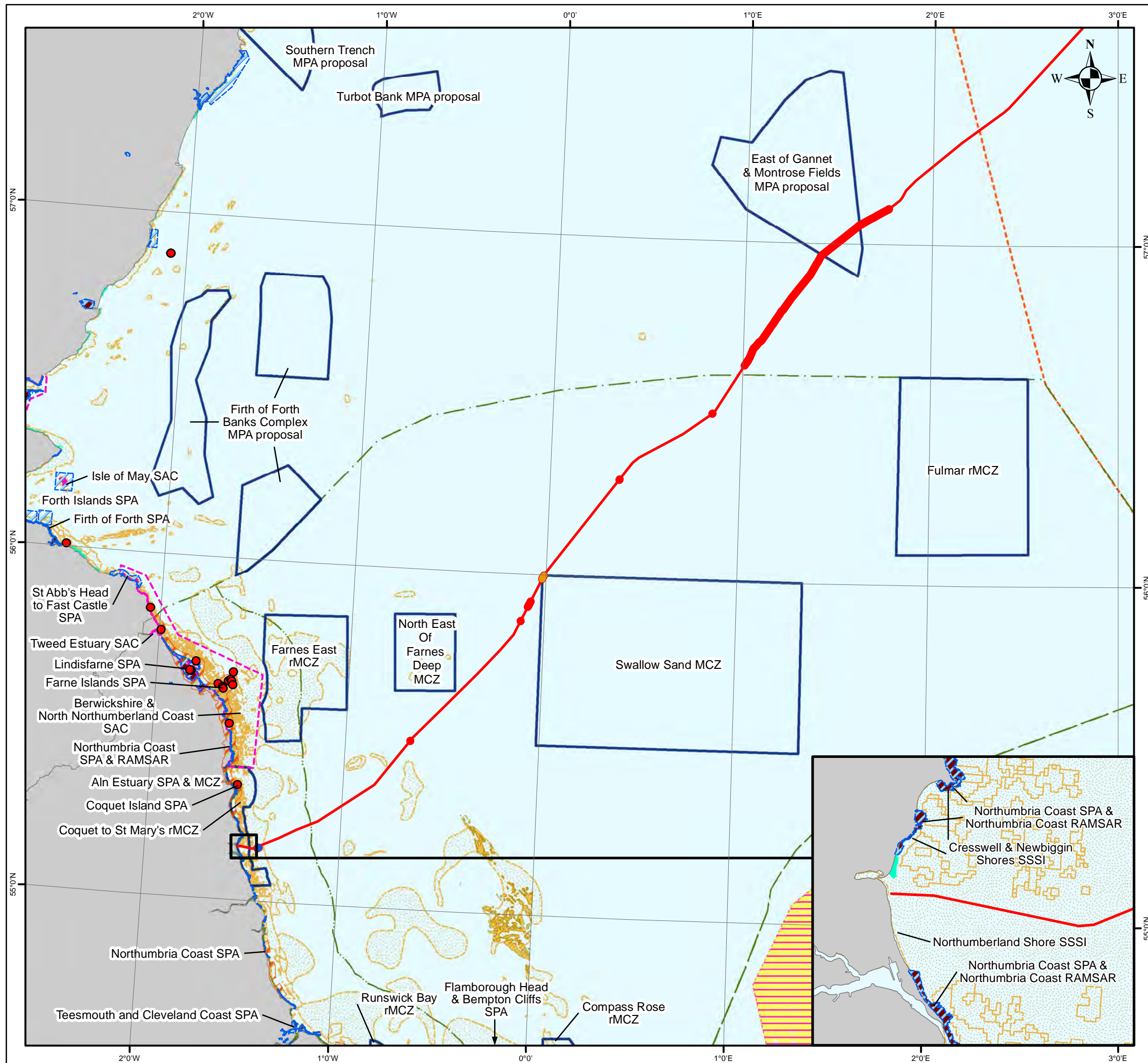
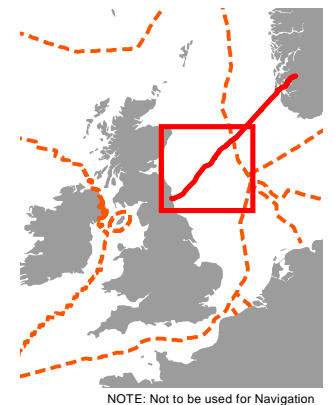
Figure 9.1 Protected Areas

Legend

- Grey Seal Haul Out
- Proposed Marine Cable Route
- PAIH and BAP Habitats**
- PAIH Rocky Reef
- Mud Habitats in Deep Water
- Sandy Sediments
- - - Median Line
- - - MMO Marine Plan Boundary

Protected Areas

- SPA
- SAC
- cSAC (offshore)
- Ramsar
- SSSI
- MCZ / rMCZ / MPA proposal
- Annex 1 Habitat Reef
- PAIH - Reef
- PAIH - Sandbank
- Heritage Coast



Date	Monday, November 11, 2013 10:11:43
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	GEBCO, JNCC, MS, NE, OSOD, SNH, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_9_1_Protected_Areas_v2.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.

0 5 10 20 30 40 50 km

© Metoc Ltd, 2014. All rights reserved.

Collated and published by JNCC © Contains public sector information licensed under the Open Government Licence v2.0. Contains derived data from BGS © NERC. Contains derived data from Ordnance Survey © Crown copyright, 100019741 (2013).. NOT TO BE USED FOR NAVIGATION. Contains Ordnance Survey and UK Hydrographic Office data © Crown copyright and database right 2012. Marine Management Organisation.

**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector
Figure 9.2 BAP Habitats**

Legend

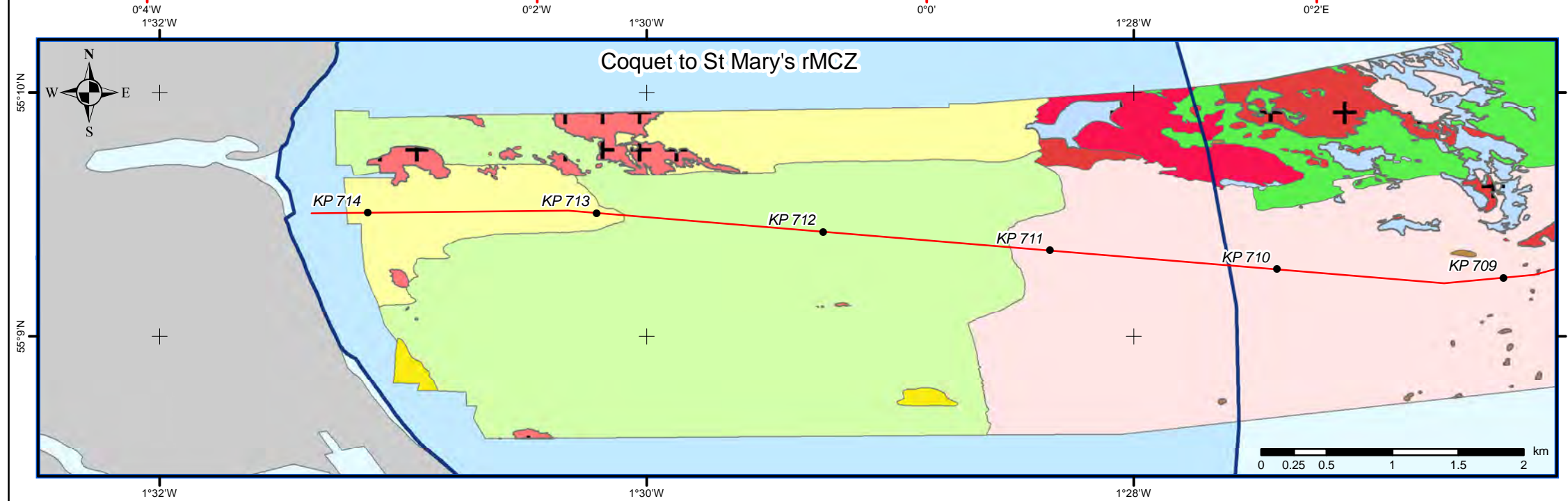
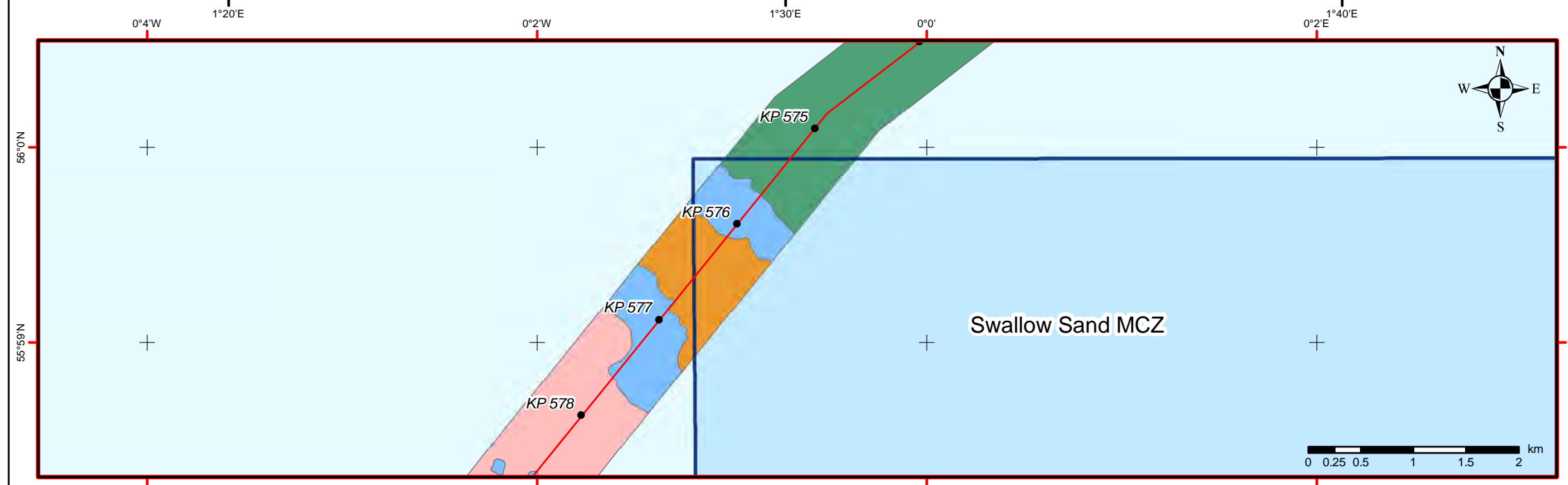
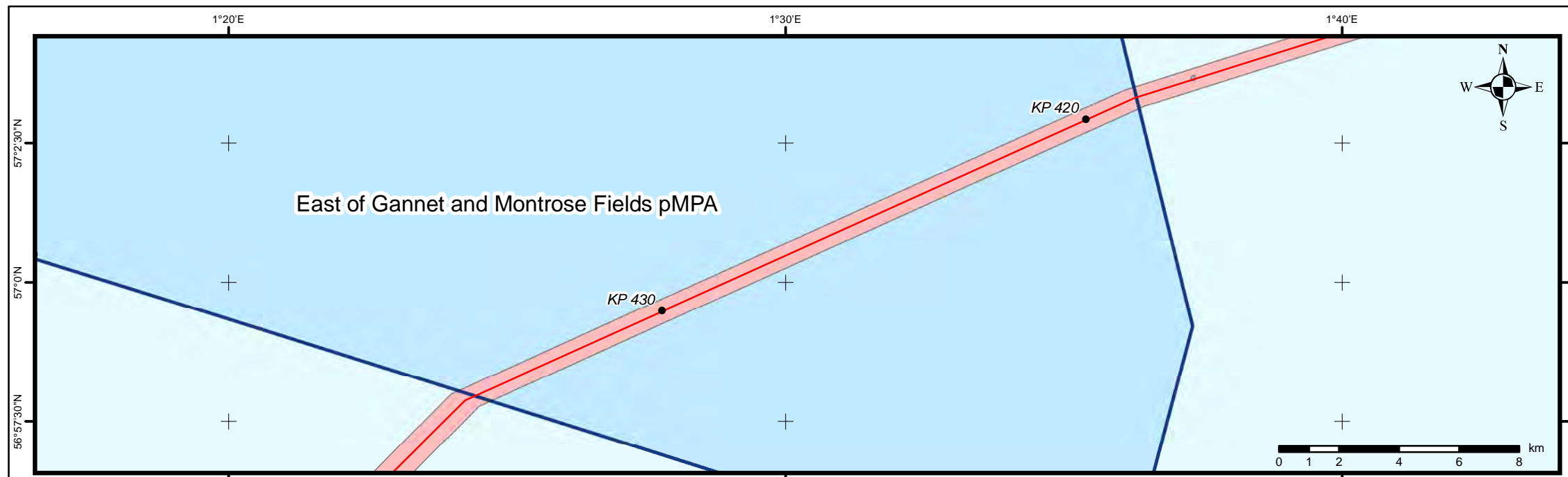
- 10km KP
- Proposed Marine Cable Route
- MCZ / rMCZ / MPA proposal

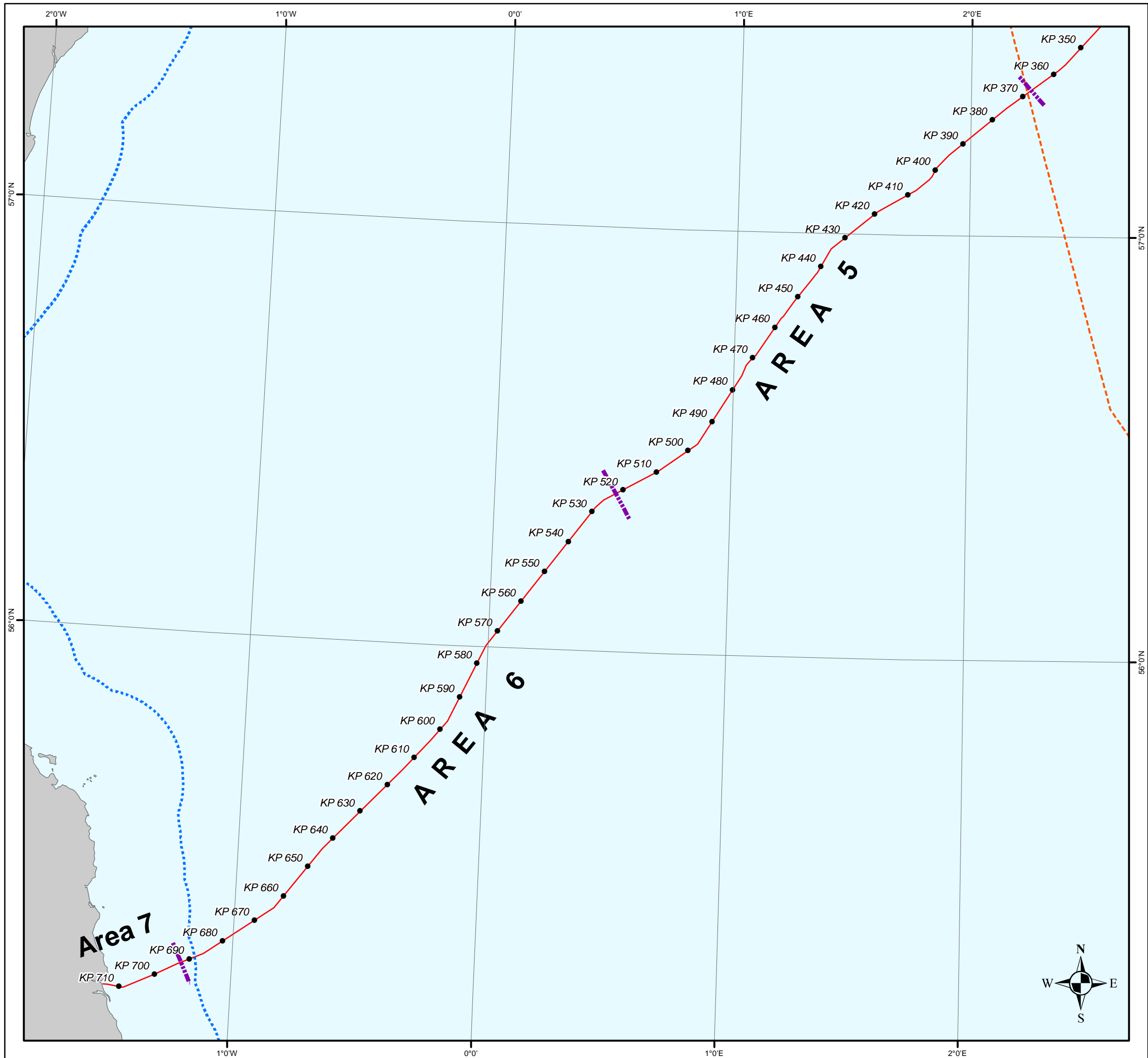
Habitat Type

- H-1-A3.2 Atlantic and Mediterranean moderate energy infralittoral rock
- H-1-A4.2 Atlantic and Mediterranean moderate energy circalittoral rock
- H-11-A4.2144 Brittlestars on faunal and algal encrusted
- H-2-A5.14 Circalittoral coarse sediment
- H-2-A5.15 Deep circalittoral coarse sediment
- H-3-A5.23 Infralittoral fine sand
- H-3-A5.24 Infralittoral muddy sand
- H-3-A5.27 Deep circalittoral sand
- H-4-A5.242 Fabulina fabula and Magelona mirabilis with venerid bivalves and amphipods in infralittoral compacted fine muddy sand
- H-4-A5.245 Turritella in muddy sands
- H-4-A5.26 Circalittoral muddy sand
- H-5-A5.35 Circalittoral sandy mud
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.44 Circalittoral mixed sediments
- H-6-A5.45 Deep circalittoral mixed sediments
- H-7-Annex I Stony reef - Low
- H-7-Annex I Stony reef - Medium



Date	Friday, February 21, 2014 16:23:17
Projection	GCS_WGS_1984
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, DECC, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_9_2_Detailed_BAP_Habitat.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley



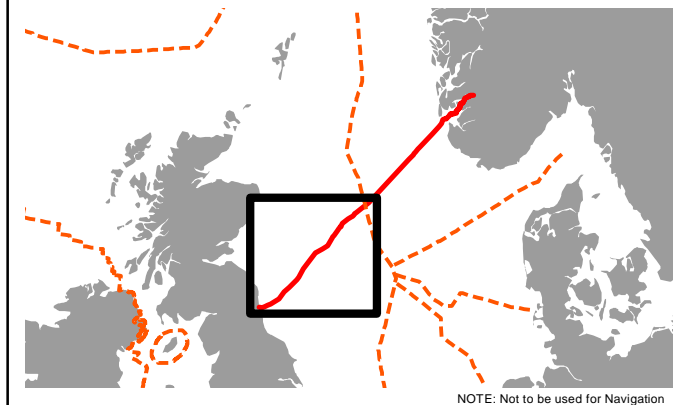


**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector**

Fig 10-1: UK Offshore Waters

Legend

- 10km KP
- Proposed Marine Cable Route
- - Cable Area Boundary
- - - Median Line
- ... 12nm Sea Limit



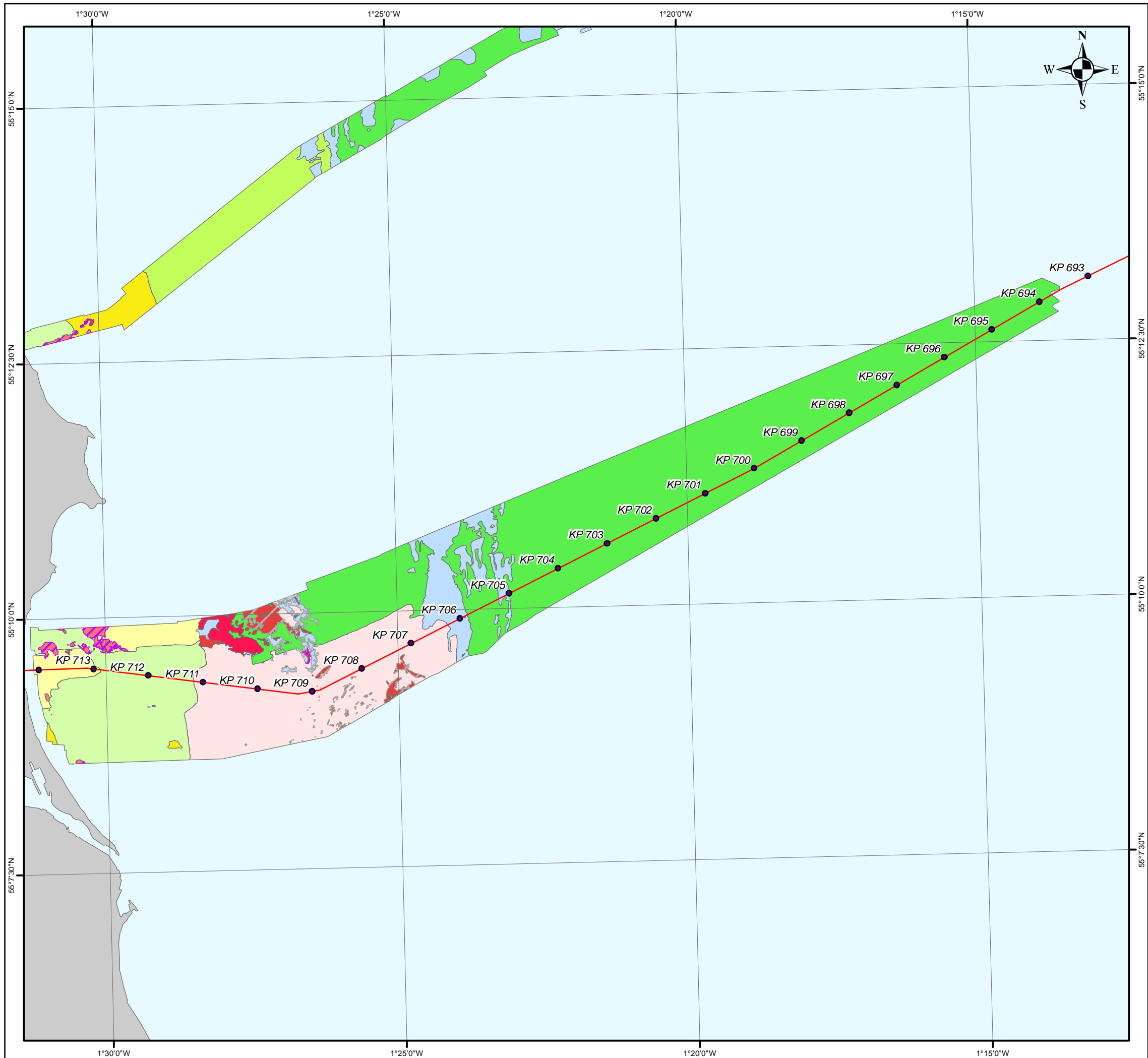
Date	Friday, February 21, 2014 15:12:41
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10.1_UK_Offshore_Waters.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

nationalgrid Statnett Intertek

 Valued Quality. Delivered.

0 5 10 20 30 40 50 km

© Metoc Ltd, 2014. All rights reserved.

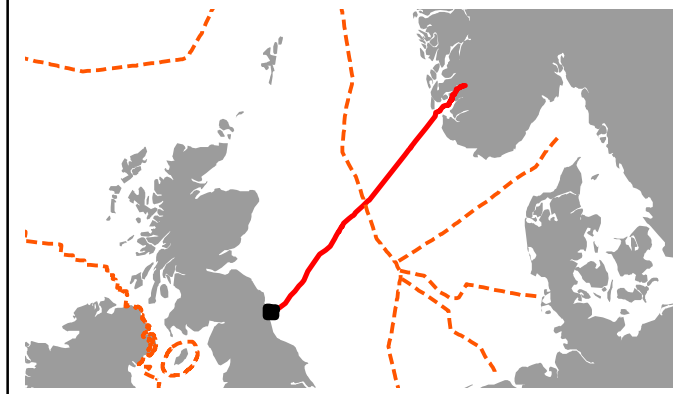


**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector**

Fig 10-2: Area 7 - KP692-KP715

Legend

- 1km KP
 - Proposed Marine Cable Route
- Habitat Type**
- H-1-A3.2 Atlantic and Mediterranean moderate energy infralittoral rock
 - H-1-A4.2 Atlantic and Mediterranean moderate energy circalittoral rock
 - H-11-A4.2144 Brittlestars on faunal and algal encrusted
 - H-2-A5.14 Circalittoral coarse sediment
 - H-3-A5.23 Infralittoral fine sand
 - H-3-A5.24 Infralittoral muddy sand
 - H-4-A5.242 Fabulina fabula and Magelona mirabilis with venerid bivalves and amphipods in infralittoral compacted fine muddy sand
 - H-4-A5.245 Turritella in muddy sands
 - H-4-A5.26 Circalittoral muddy sand
 - H-5-A5.35 Circalittoral sandy mud
 - H-6-A5.44 Circalittoral mixed sediments
 - H-7-Annex I Stony reef - Low
 - H-7-Annex I Stony reef - Medium



Date	Friday, February 21, 2014 15:39:51
Projection	WGS_1984_UTM_Zone_30N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_8_Area7_KP692_KP715.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

nationalgrid Statnett Intertek
Valued Quality. Delivered.

0 0.5 1 2 3 4 km © Metoc Ltd, 2014. All rights reserved.

Contains Ordnance Survey data © Crown copyright and database right 2013

Figure 10-6: Side Scan Sonar Imagery

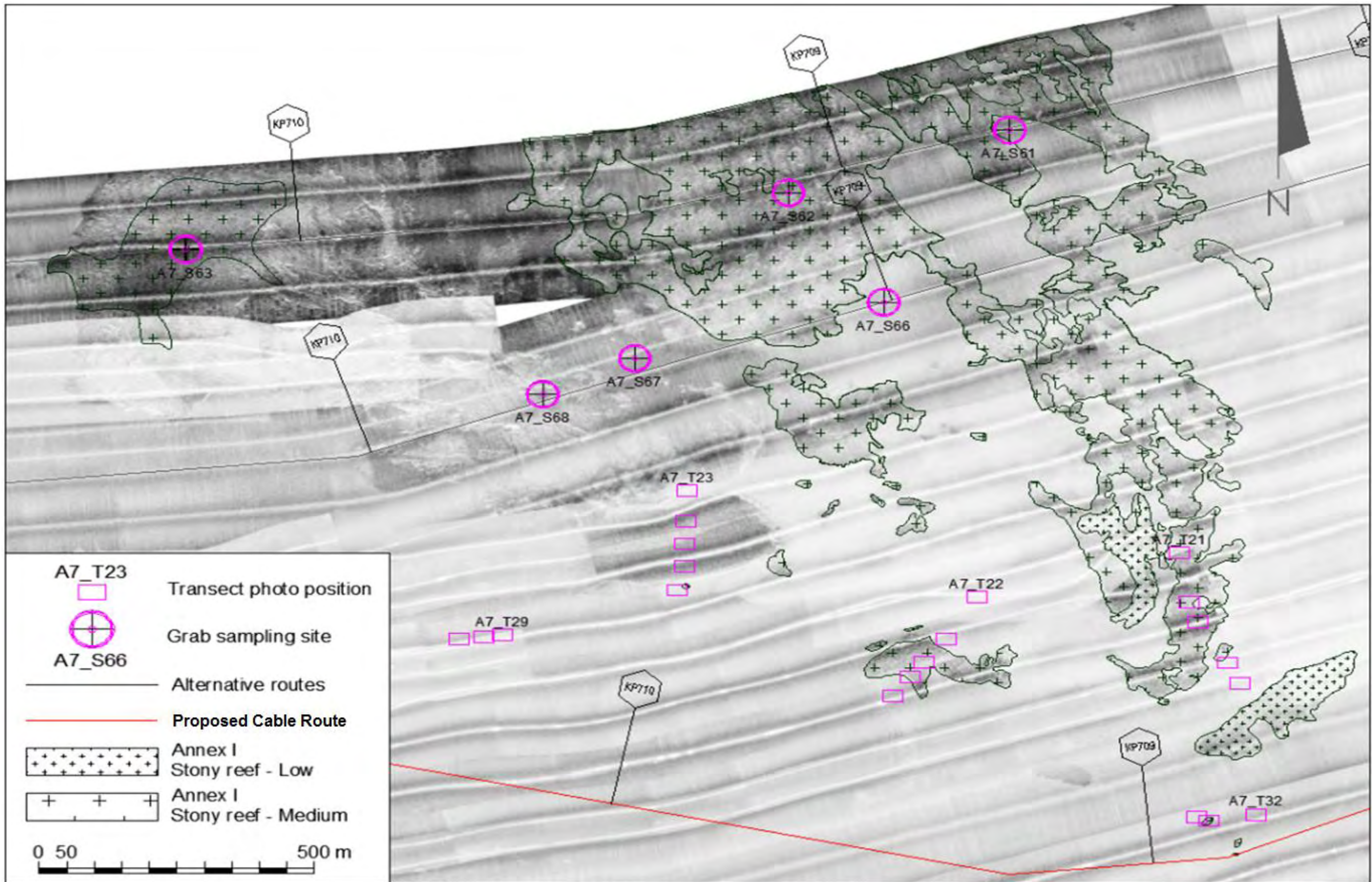


Figure 10-7: Side Scan Sonar Imagery

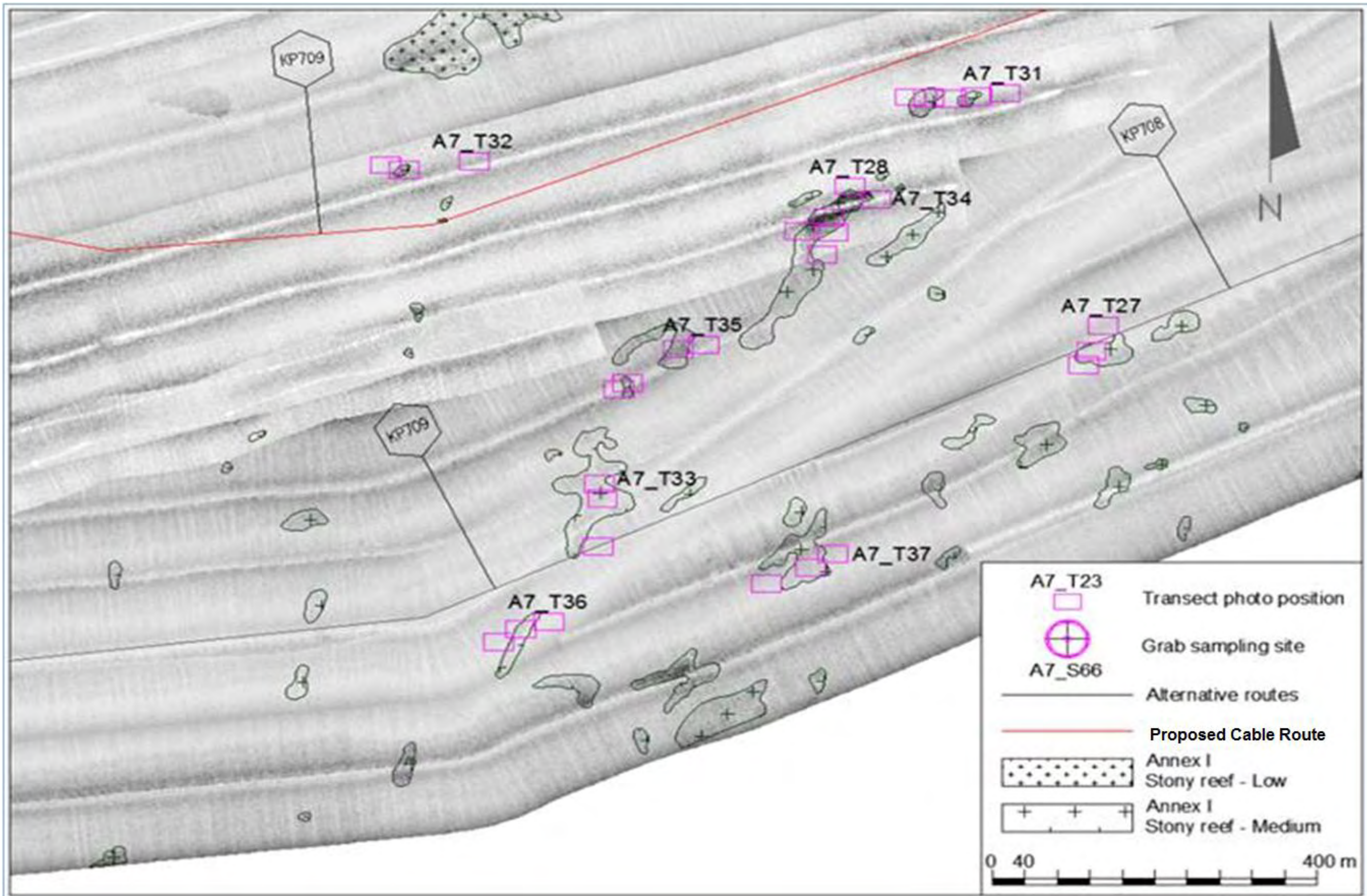
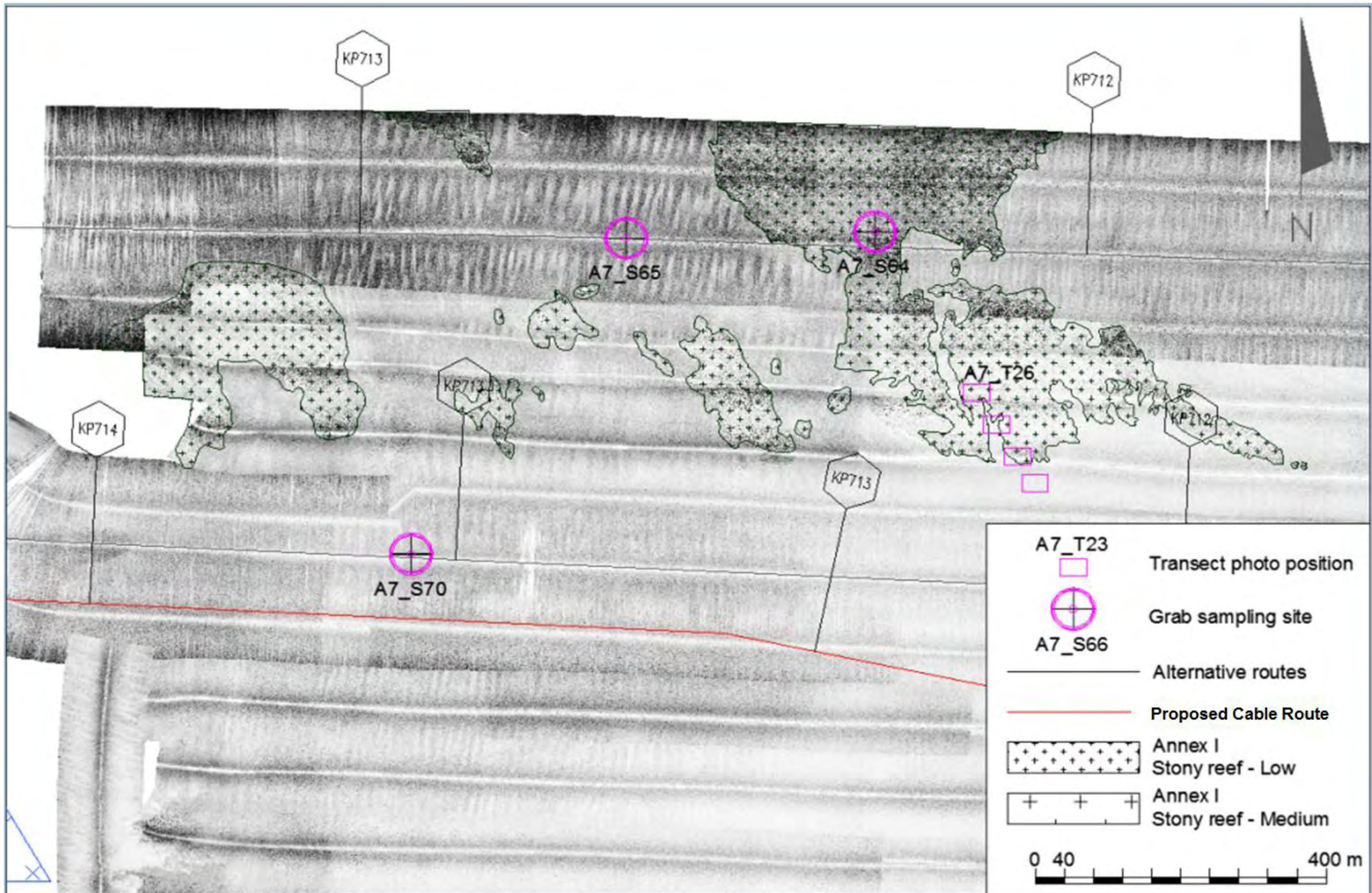


Figure 10-8: Side Scan Sonar Imagery



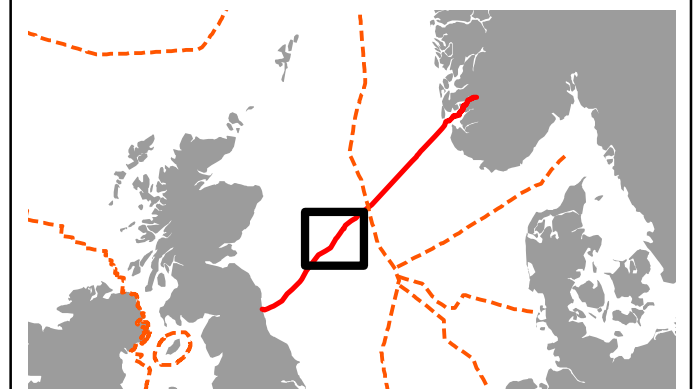
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Fig 10-10: UK Offshore Habitats -
Route Selection KP392 - KP545**

Legend

- 10km KP
- Proposed Marine Cable Route

Habitat Type

- H-3-A5.27 Deep circalittoral sand
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.45 Deep circalittoral mixed



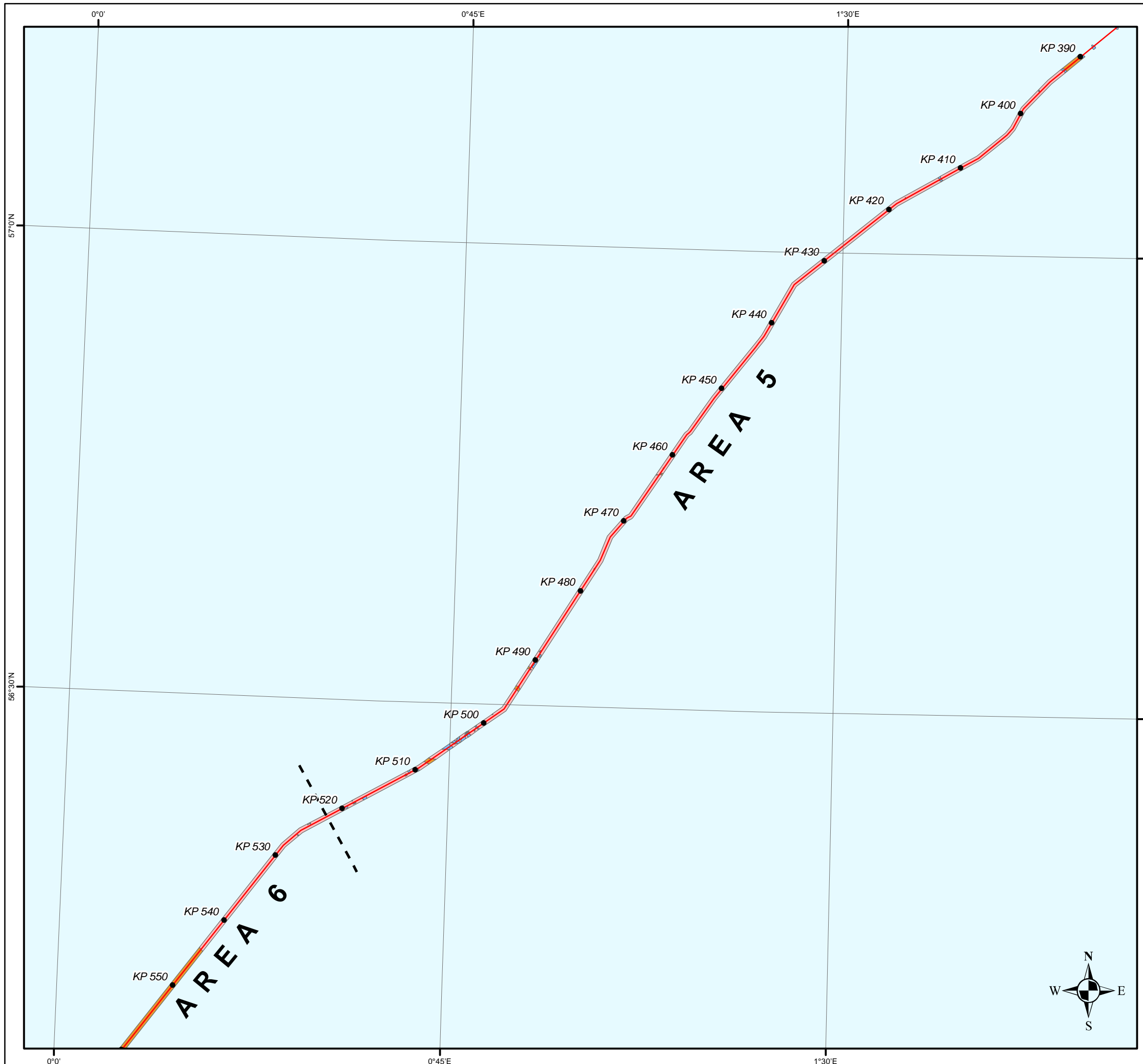
NOTE: Not to be used for Navigation

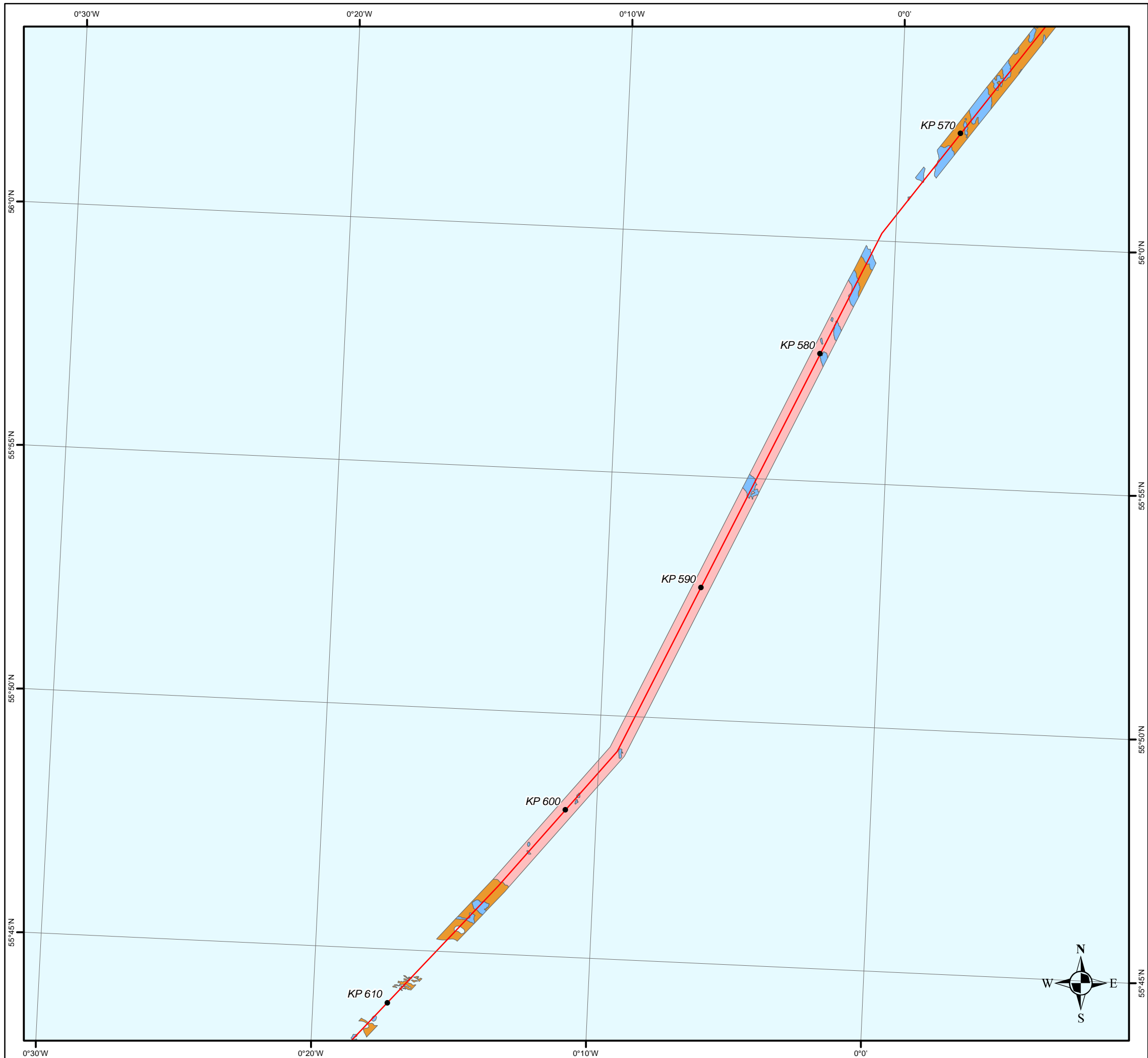
Date	Friday, February 21, 2014 15:11:22
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_3_KP578_KP604.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley



Valued Quality. Delivered.

0 2.5 5 10 15 20 25 km © Metoc Ltd, 2014. All rights reserved.





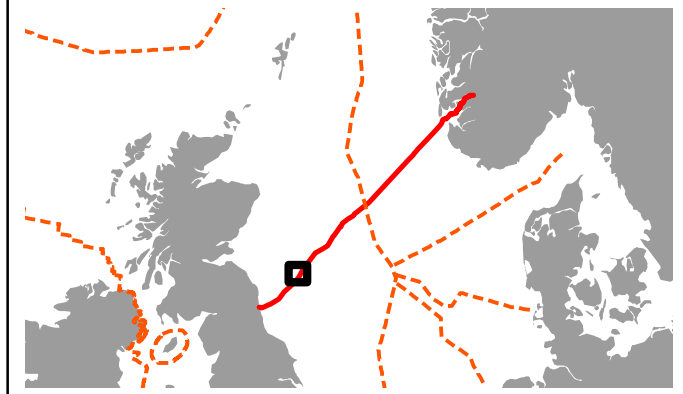
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Fig 10-11: UK Offshore Habitats -
Route Selection KP578- KP604**

Legend

- 10km KP
- Proposed Marine Cable Route

Habitat Type

- H-3-A5.27 Deep circalittoral sand
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.45 Deep circalittoral mixed

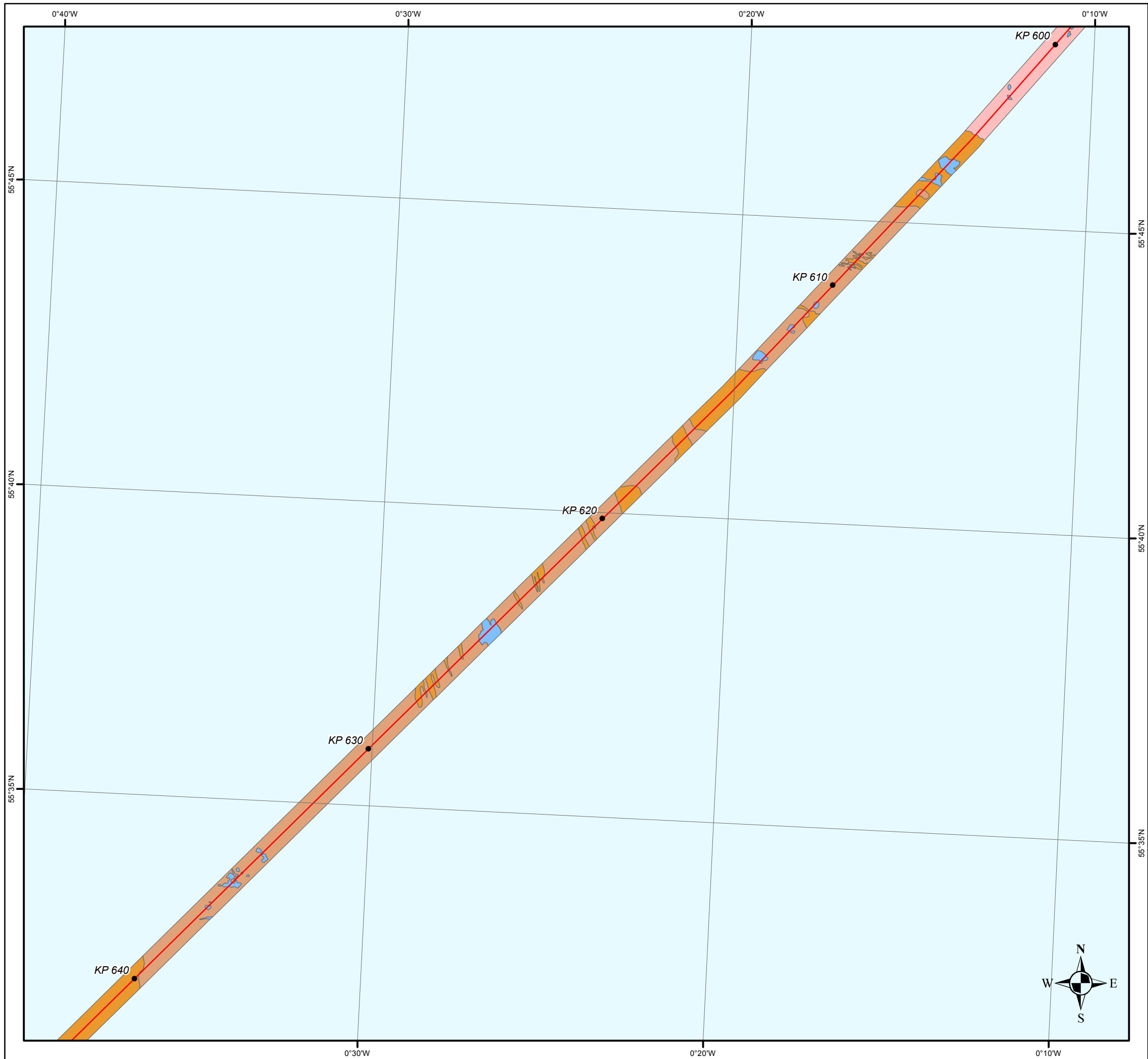


NOTE: Not to be used for Navigation

Date	Friday, February 21, 2014 15:11:22
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_3_KP578_KP604.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

Valued Quality. Delivered.

© Metoc Ltd, 2014.
All rights reserved.



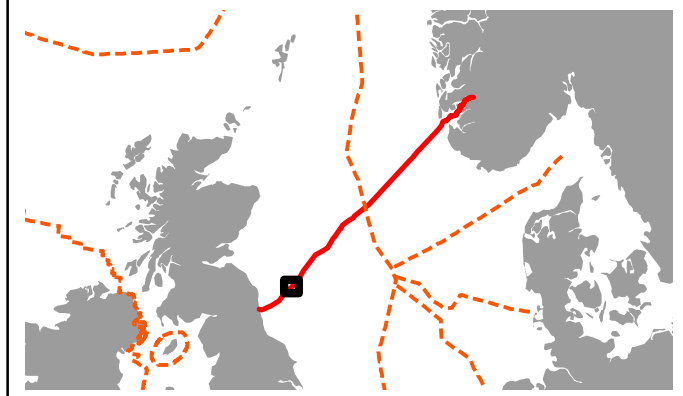
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Fig 10-12: UK Offshore Habitats -
Route Selection KP606 - KP640**

Legend

- 10km KP
- Proposed Marine Cable Route
- - Cable Area Boundary

Habitat Type

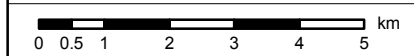
- H-3-A5.27 Deep circalittoral sand
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.45 Deep circalittoral mixed
- H-2-A5.15 Deep circalittoral coarse sediment

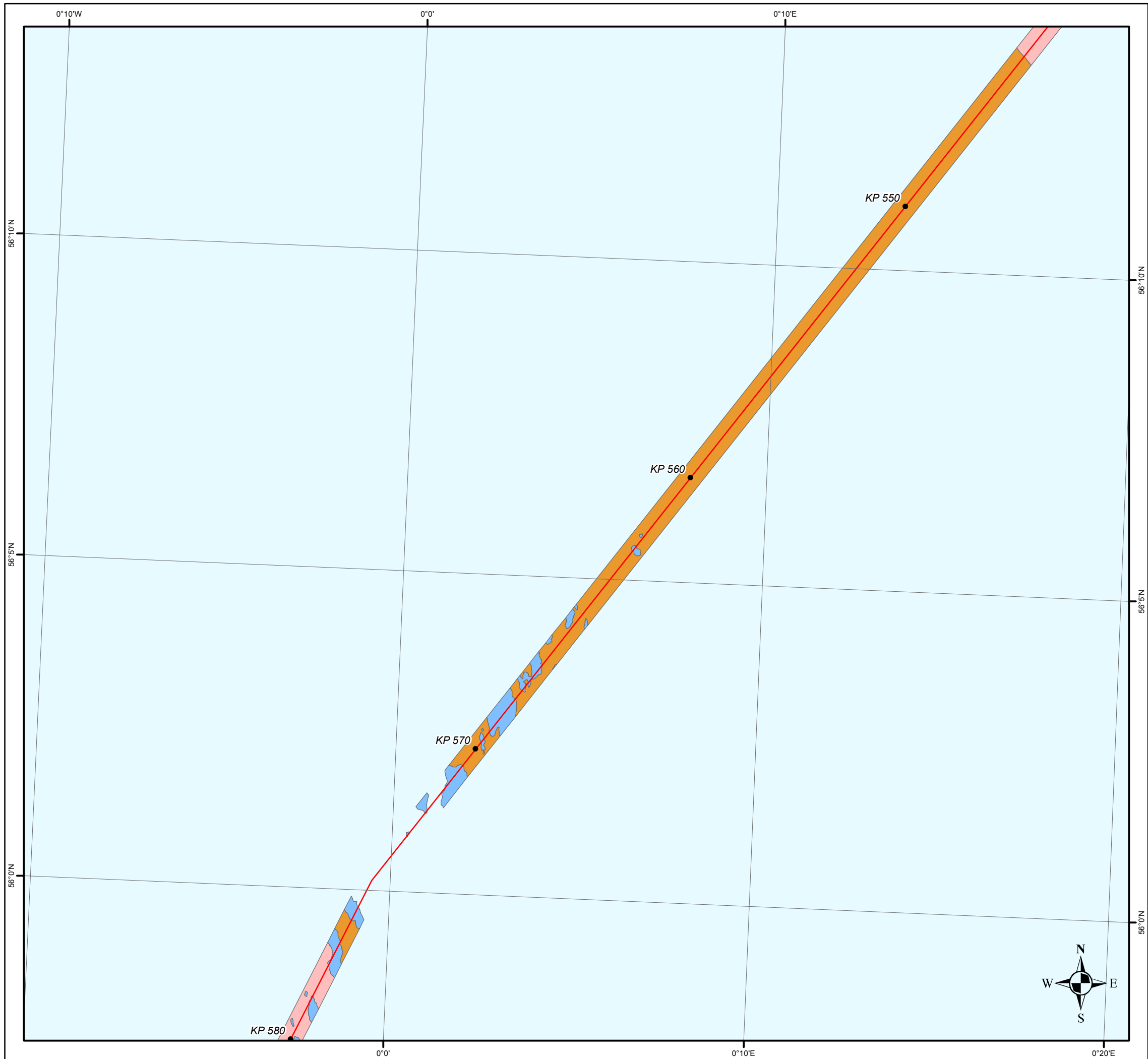


Date	Friday, February 21, 2014 15:29:54
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_12_KP606_KP640.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

Valued Quality. Delivered.

© Metoc Ltd, 2014. All rights reserved.





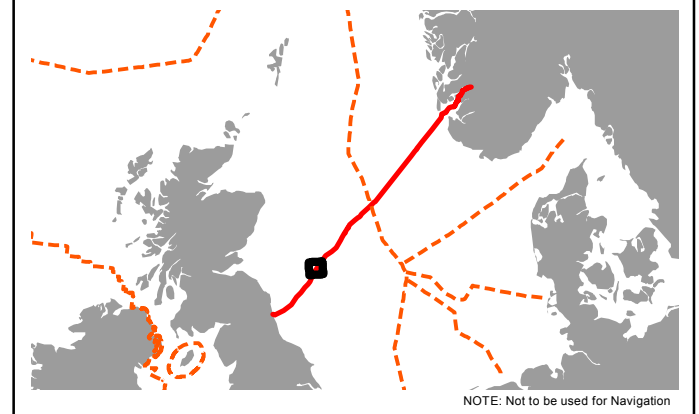
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Fig 10-13: UK Offshore Habitats -
Route Selection KP545 - KP578**

Legend

- 10km KP
- Proposed Marine Cable Route

Habitat Type

- H-3-A5.27 Deep circalittoral sand
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.45 Deep circalittoral mixed



NOTE: Not to be used for Navigation

Date	Wednesday, March 19, 2014 13:21:23
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_13_KP545_KP578.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

Valued Quality. Delivered.

© Metoc Ltd, 2014.
All rights reserved.

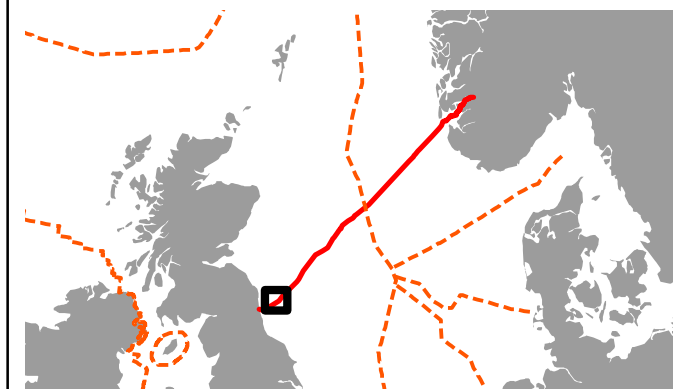
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Fig 10-14: UK Offshore Habitats -
Route Selection KP640 - KP692**

Legend

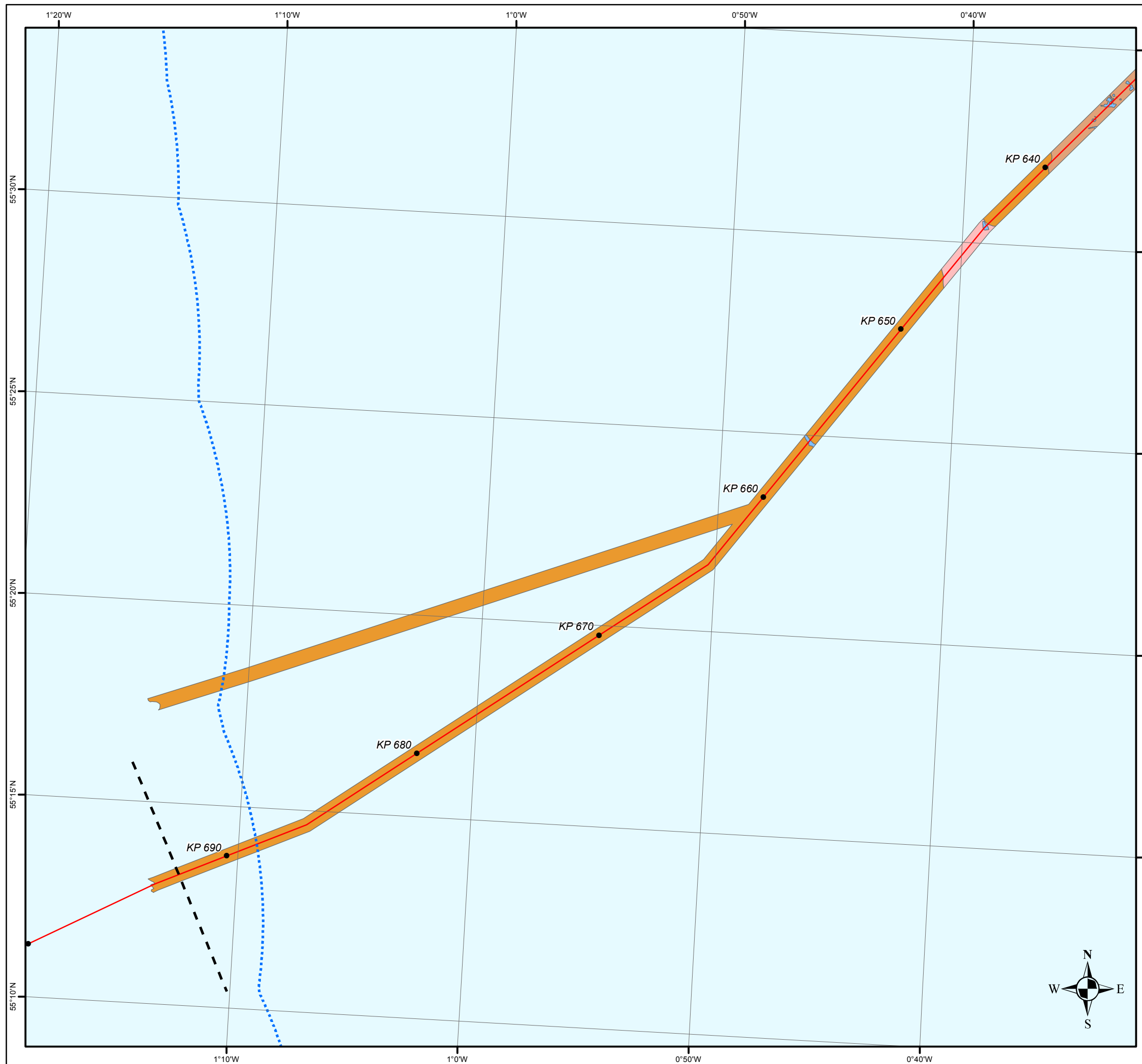
- 10km KP
- Proposed Marine Cable Route
- - Cable Area Boundary

Habitat Type




- H-3-A5.27 Deep circalittoral sand
- H-5-A5.361 Seapens and burrowing megafauna in circalittoral fine mud
- H-6-A5.45 Deep circalittoral mixed
- H-2-A5.15 Deep circalittoral coarse sediment



NOTE: Not to be used for Navigation



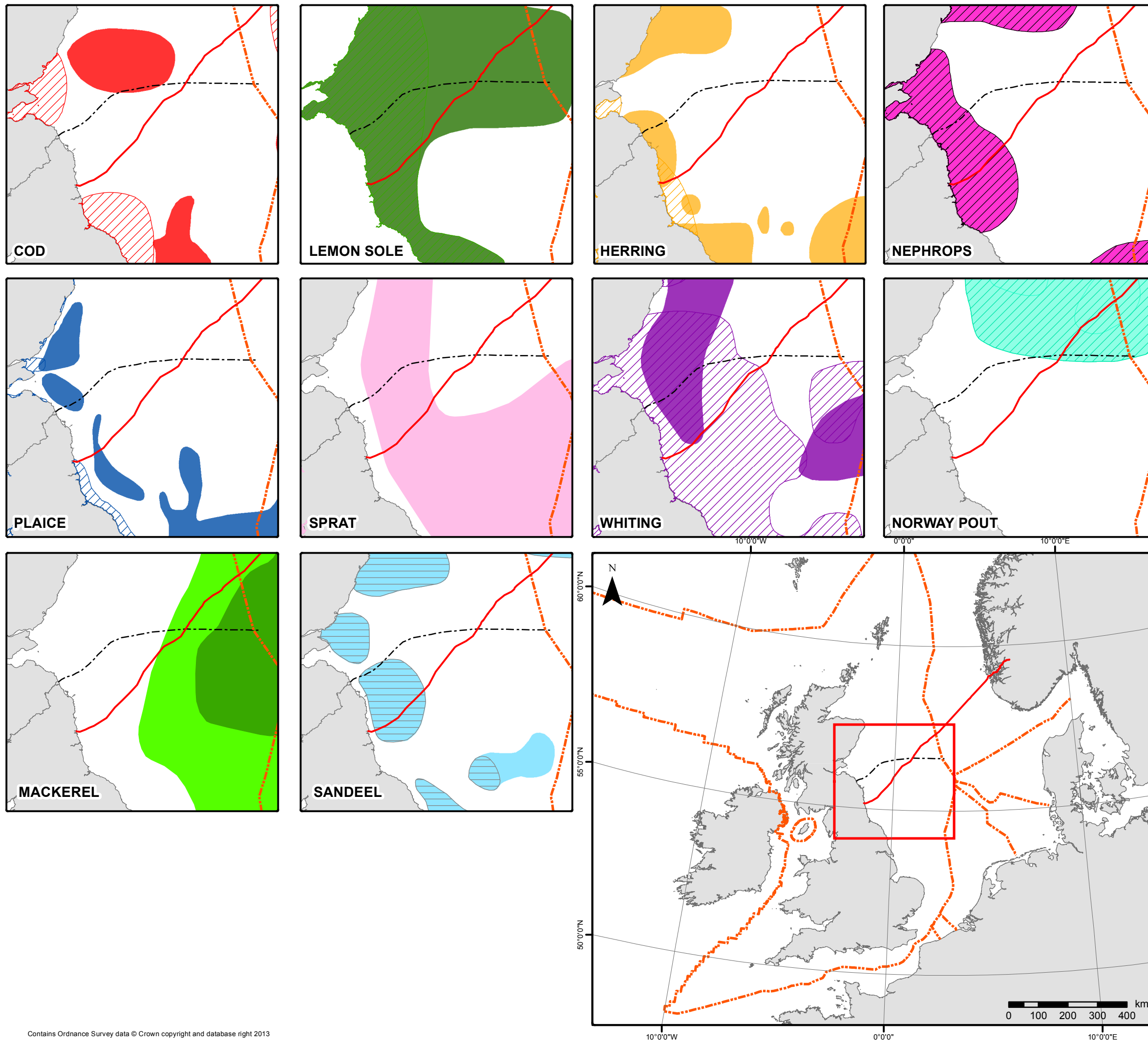
Date	Wednesday, March 19, 2014 13:19:28
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, ESRI, MMT
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_10_14_KP640_KP692.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Anna Farley

Valued Quality. Delivered.

0 1 2 4 6 8 10 km © Metoc Ltd, 2014. All rights reserved.

**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 11.2: Fish Spawning and Nursery Areas



Legend

- Proposed Marine Cable Route
- Anglo-Scottish Median Line
- Median Line

Spawning areas

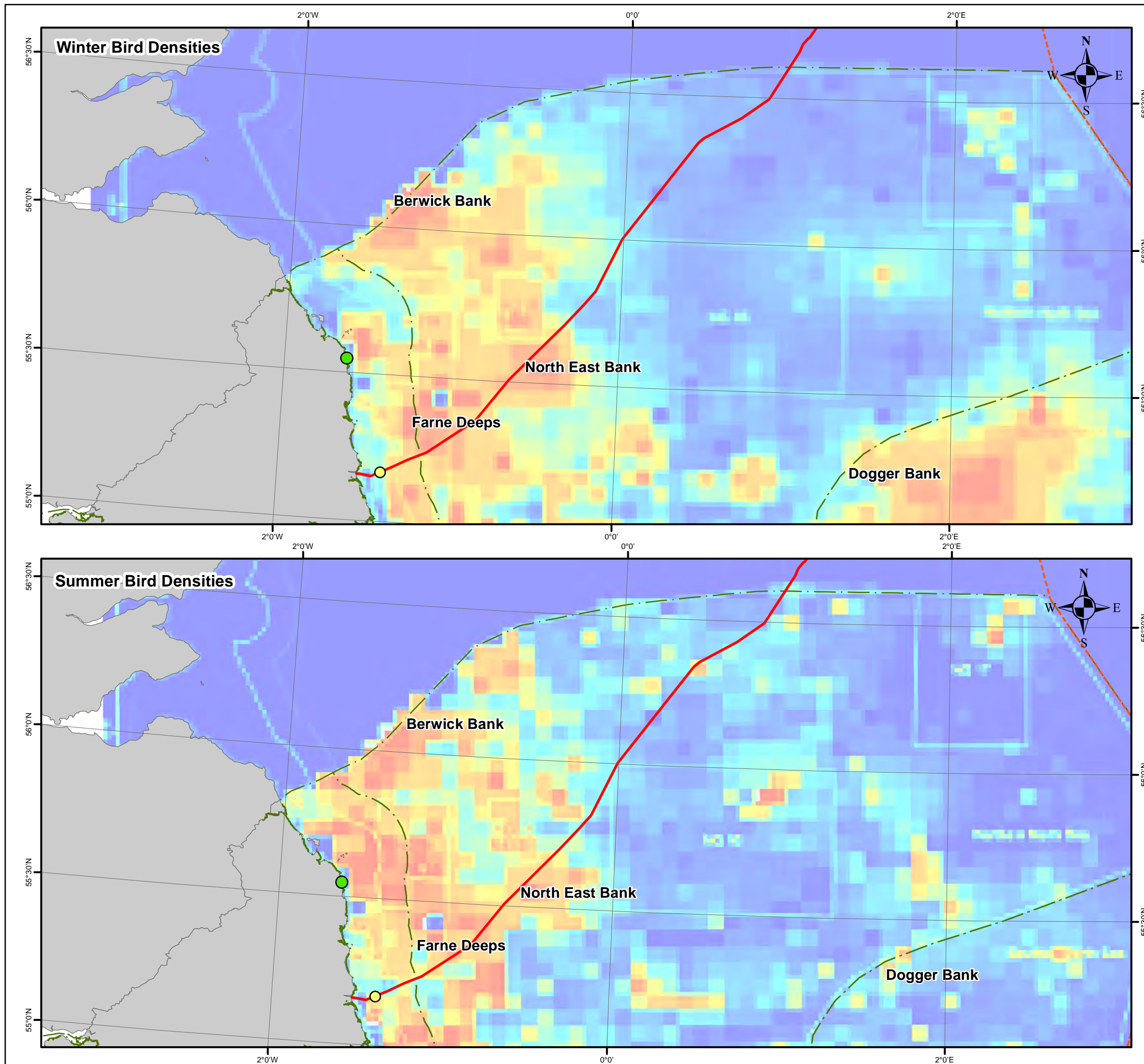
- Cod spawning area
- Lemon sole spawning area
- Herring spawning area
- Nephrops spawning area
- Plaice spawning area
- Sprat spawning area
- Whiting spawning area
- Norway Pout spawning area
- Mackerel spawning area
- Mackerel higher intensity spawning area
- Sandeel spawning area

Nursery areas

- Cod nursery area
- Lemon sole nursery area
- Herring nursery area
- Nephrops nursery area
- Plaice nursery area
- Whiting nursery area
- Norway Pout nursery area
- Sandeel nursery area

Date	Friday, February 21, 2014 16:31:56
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	CEFAS, GEBCO, Coull et al, 1998
File Reference	J:\P1568\Mxd\Environment\Environmental Report \Final\Figure_11_2_Fish_spawning_nursery.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Paula Dalglish

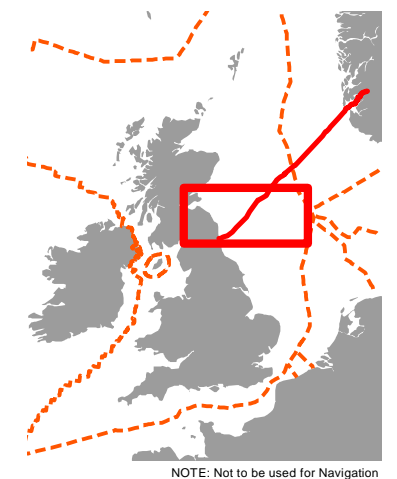
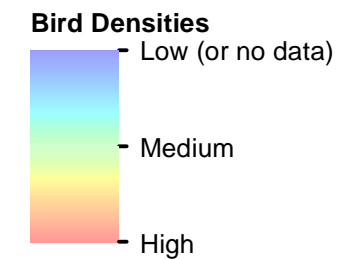
nationalgrid Statnett Intertek
Valued Quality. Delivered.
© Metoc Ltd, 2014. All rights reserved.



**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 12.2 Seasonal Seabird Densities in
English Waters

Legend

- Sandeel Abundance
- Beadnell Bay Little Tern Colony
- Proposed Marine Cable Route
- - - Median Line
- - - MMO Marine Plan Boundary

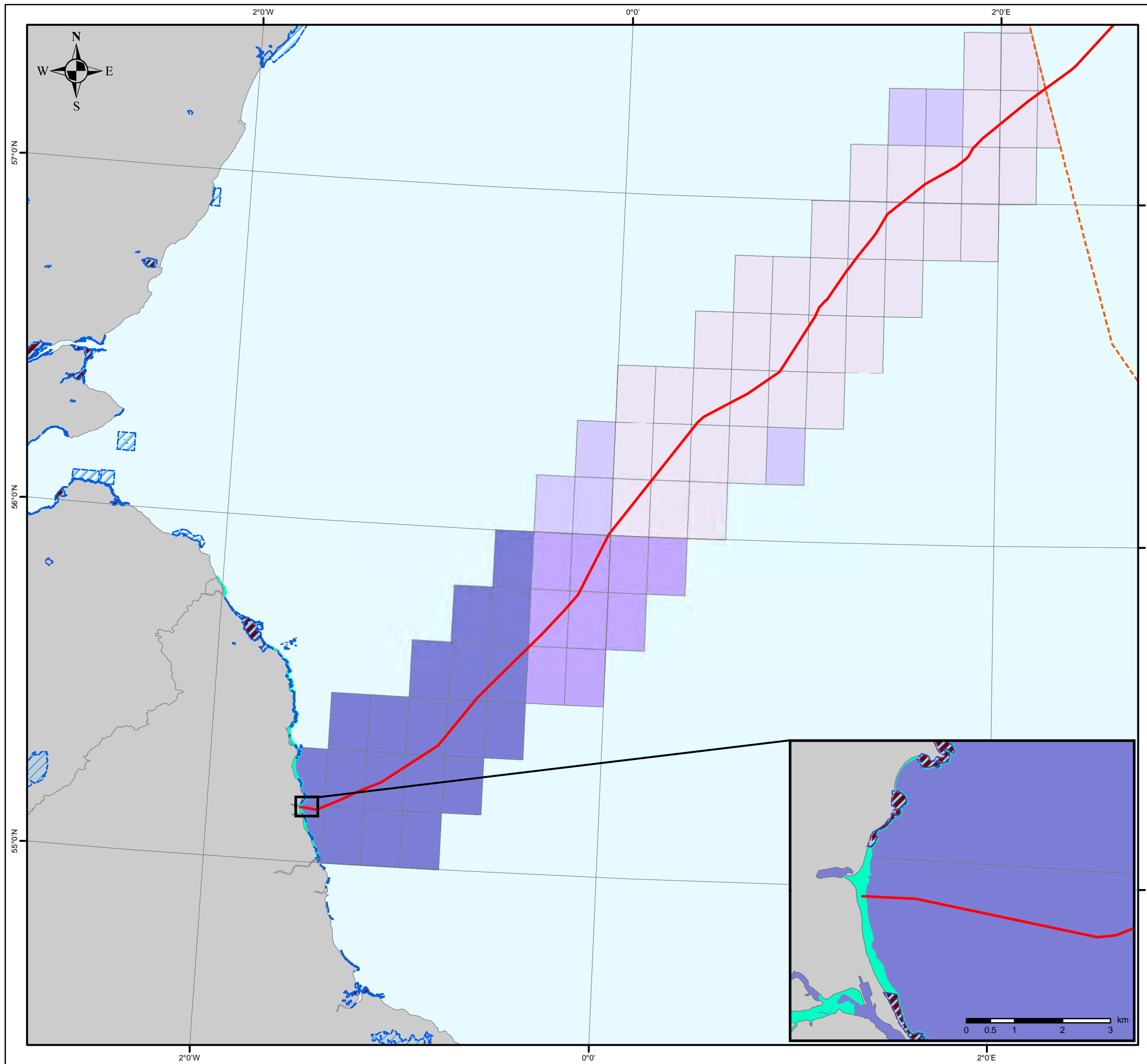


NOTE: Not to be used for Navigation

Date	Monday, November 11, 2013 11:41:38
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	DECC, GEBCO, NE, UKDEAL, Net Gain, 2011
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig12_2_Seabird_Densities.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.
© Metoc Ltd, 2014. All rights reserved.

Contains Ordnance Survey data © Crown copyright and database right 2013.
Contains Ordnance Survey and UK Hydrographic Office data © Crown copyright and database right 2012. Marine Management Organisation.



**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 12.3 Seabird Vulnerability

Legend

— Proposed Marine Cable Route

- - - Median Line

Protected Areas

▨ SPA

■ RAMSAR

■ SSSI

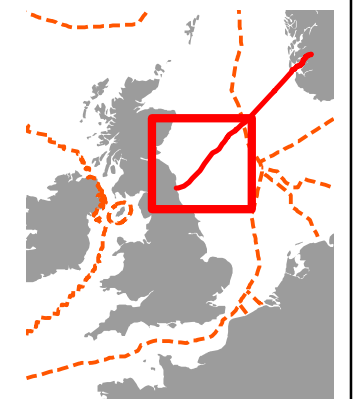
Annual Seabird Vulnerability

■ Low

■ Moderate

■ High

■ Very high



NOTE: Not to be used for Navigation

Date	Monday, November 11, 2013 15:24:24
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	ORBIS, OSOD, JNCC, GEBCO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig12_3 Seabird Vulnerability.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett







Valued Quality. Delivered.





© Metoc Ltd, 2014.
All rights reserved.

National Grid International Ltd
and Statnett SF
Norway - UK Interconnector
Figure 13.1 Harbour Porpoise

Legend






-  Proposed Marine Cable Route
-  Median Line
-  UK 12nm limit
-  MMO Marine Plan Boundary

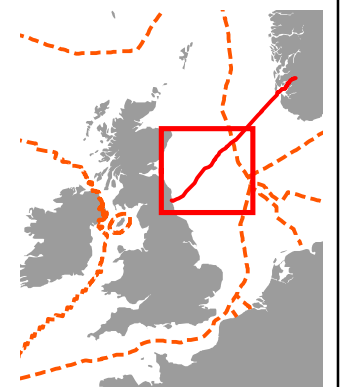
Protected Areas

-  SAC
-  SCI (offshore)

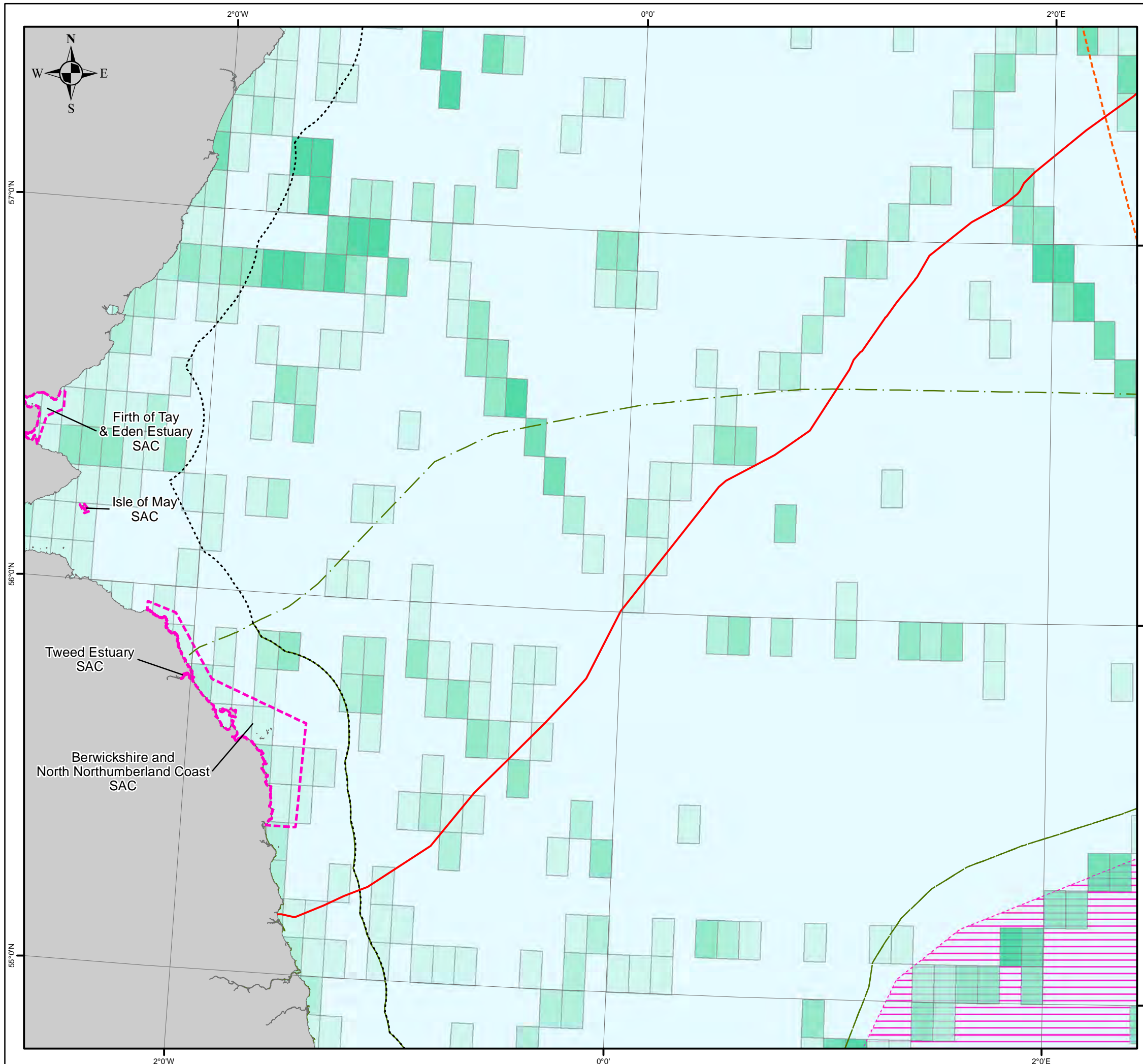
Harbour Porpoise

Number of Animals

-  1 - 12
-  13 - 47
-  48 - 109
-  110 - 263
-  264 - 638



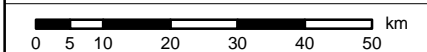
NOTE: Not to be used for Navigation



Date	Tuesday, November 12, 2013 14:26:10
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	ORBIS, OSOD, JNCC, GEBCO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig13_1_Harbour_Porpoise.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish



Valued Quality. Delivered.







© Metoc Ltd, 2014.
All rights reserved.



National Grid International Ltd
and Statnett SF
Norway - UK Interconnector

Figure 13.2 Bottlenose Dolphin

Legend






-  Proposed Marine Cable Route
-  Median Line
-  UK 12nm limit
-  MMO Marine Plan Boundary

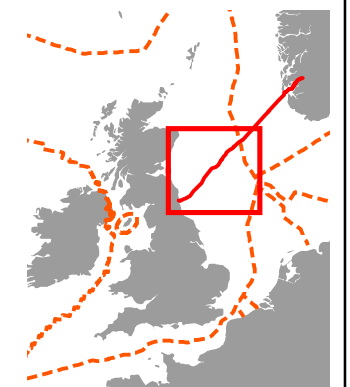
Protected Areas

-  SAC
-  SCI (offshore)

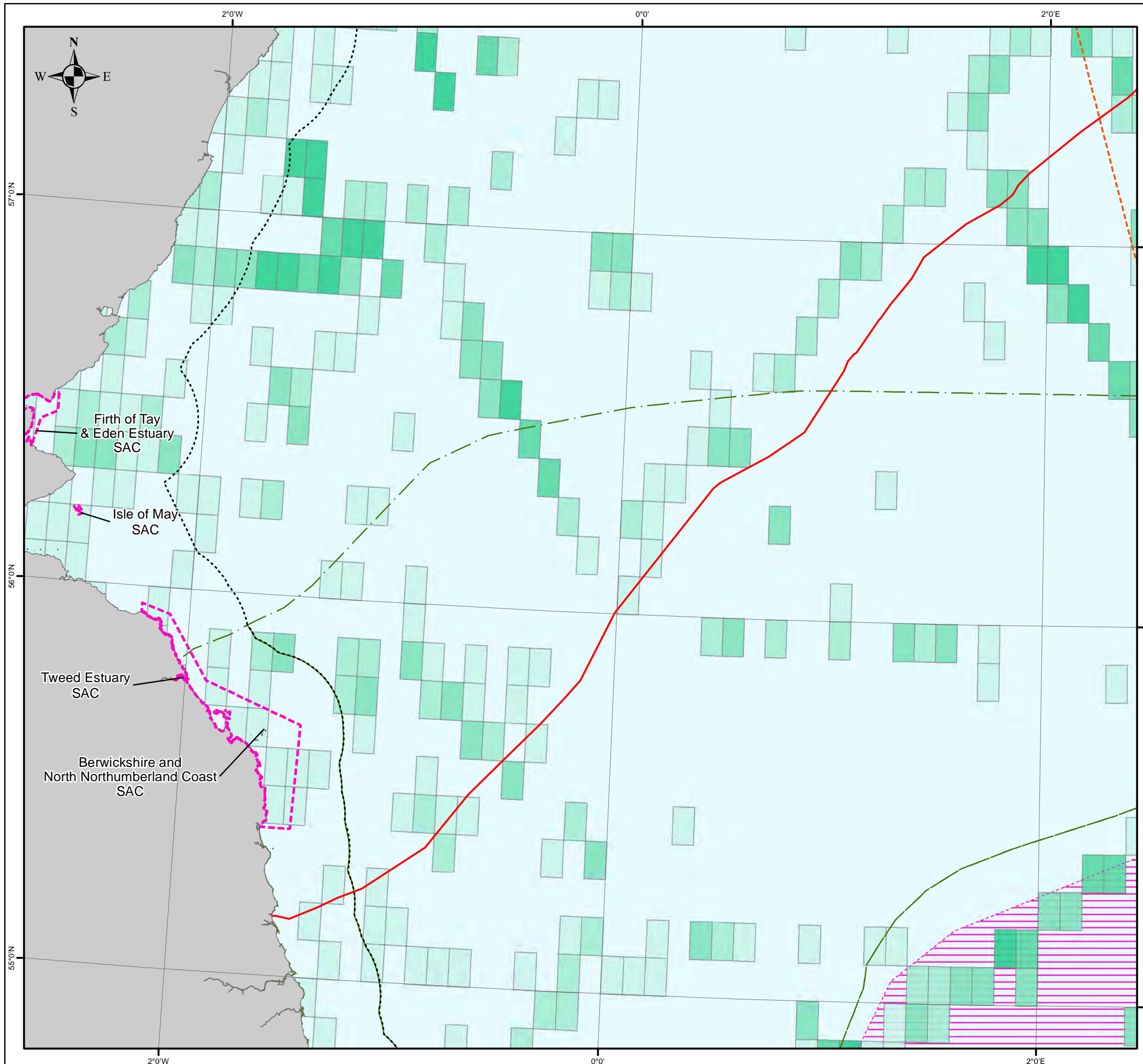
Bottlenose Dolphin

Number of Animals

-  1 - 12
-  13 - 47
-  48 - 109
-  110 - 263
-  264 - 638



NOTE: Not to be used for Navigation



Date	Tuesday, November 12, 2013 14:26:07
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	ORBIS, OSOD, JNCC, GEBCO, UKDEAL
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig13_2_Bottlenose_Dolphin.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.
© Metoc Ltd, 2014. All rights reserved.

Contains Ordnance Survey data © Crown copyright and database right 2013
Contains Ordnance Survey and UK Hydrographic Office data © Crown copyright and database right 2012. Marine Management Organisation.

**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector

Figure 13.3 Harbour Seal Distribution

Legend

— Proposed Marine Cable Route

- - - Median Line

Protected Areas

▭ SAC

▭ SCI (offshore)

- - - UK 12nm limit

▭ MMO Marine Plan Boundary

Harbour seal Distribution

■ 0 - 1

■ 1 - 5

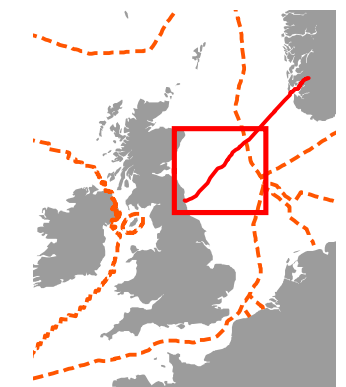
■ 5 - 10

■ 10 - 50

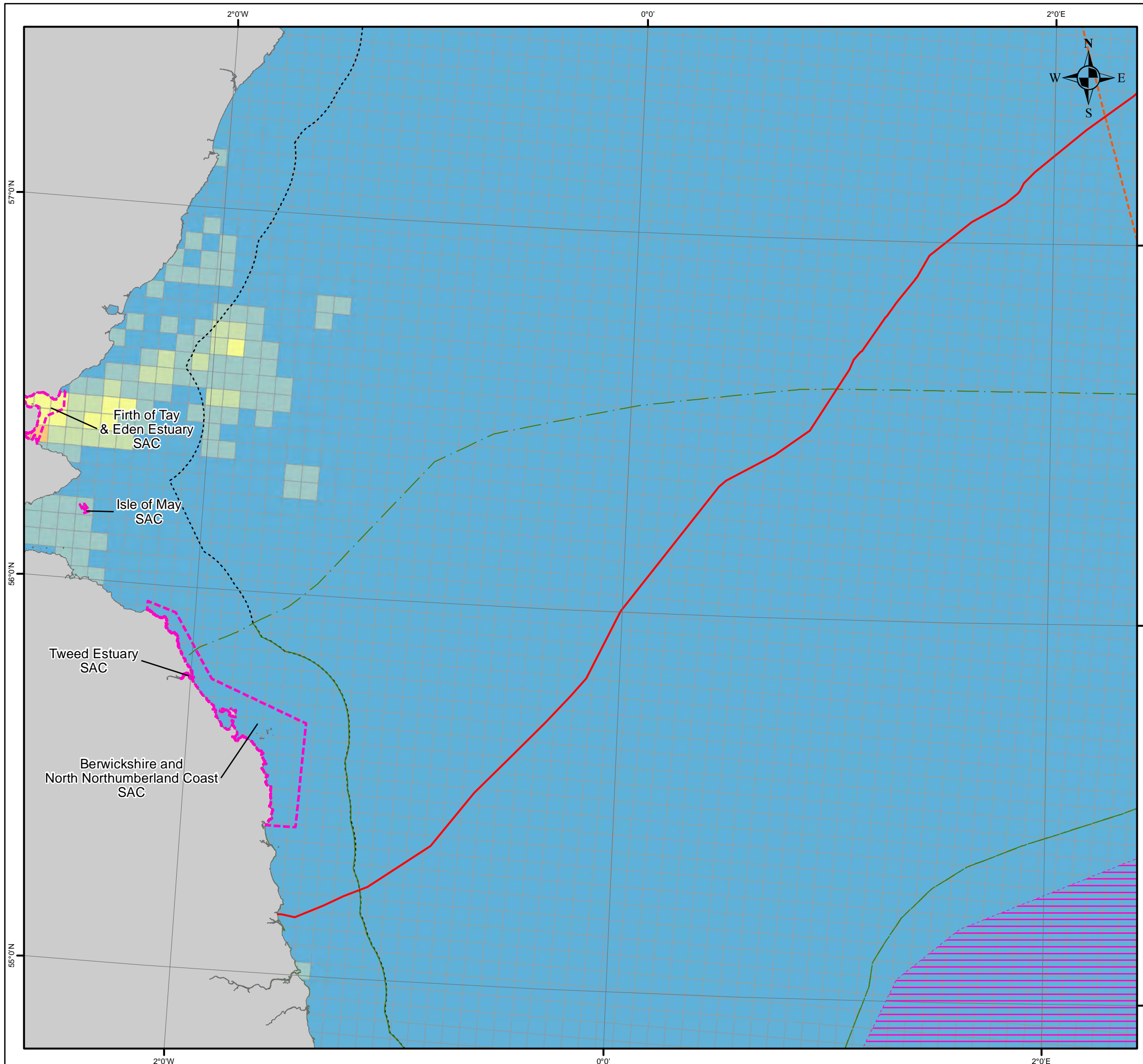
■ 50 - 100

■ 100 - 150

■ 150+



NOTE: Not to be used for Navigation

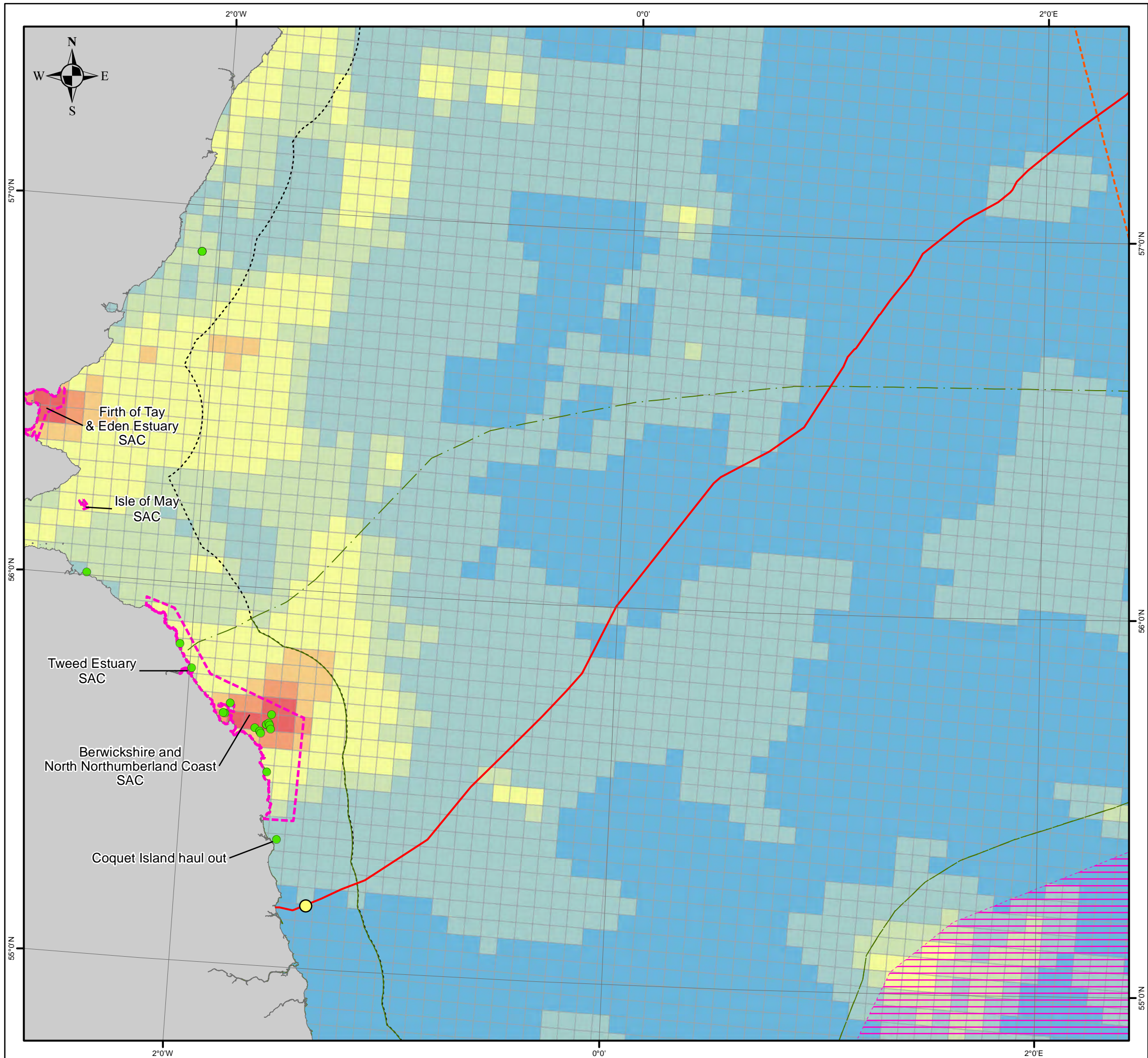


Date	Friday, November 15, 2013 12:52:32
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	ORBIS, OSOD, JNCC, GEBCO, UKDEAL, Scottish Government (2013)
File Reference	J:\P1568\Mxd\Environment\Environmental Report\ Nov_13\Fig13_3_Harbour_Seal_Distr.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.

0 5 10 20 30 40 50 km

© Metoc Ltd, 2014. All rights reserved.



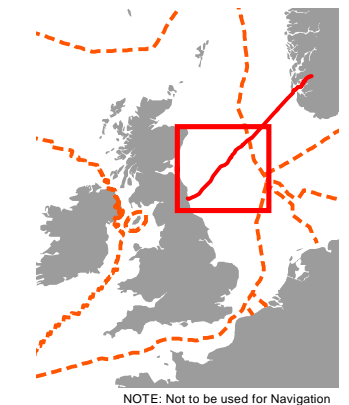
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
**Figure 13.4 Grey Seal Distribution
& Haul Out Locations**

Legend

- Grey Seal Haul Out Locations
- Sandeel Abundance
- Proposed Marine Cable Route
- Median Line
- Protected Areas**
- SAC
- SCI (offshore)
- UK 12nm limit
- MMO Marine Plan Boundary

Grey Seal Usage

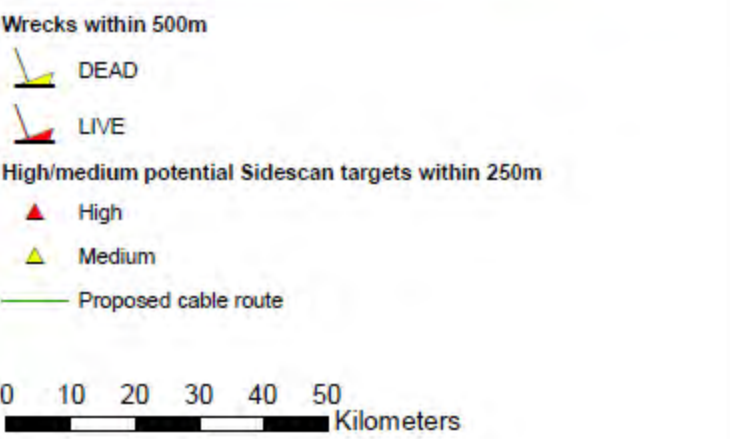
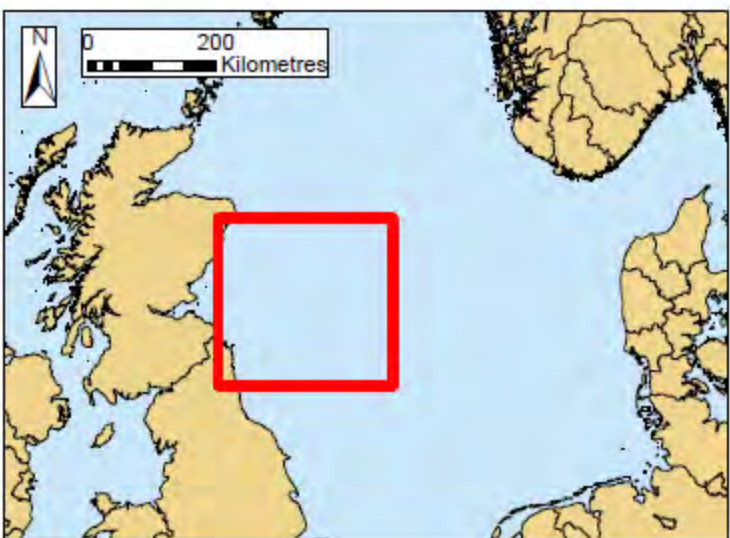
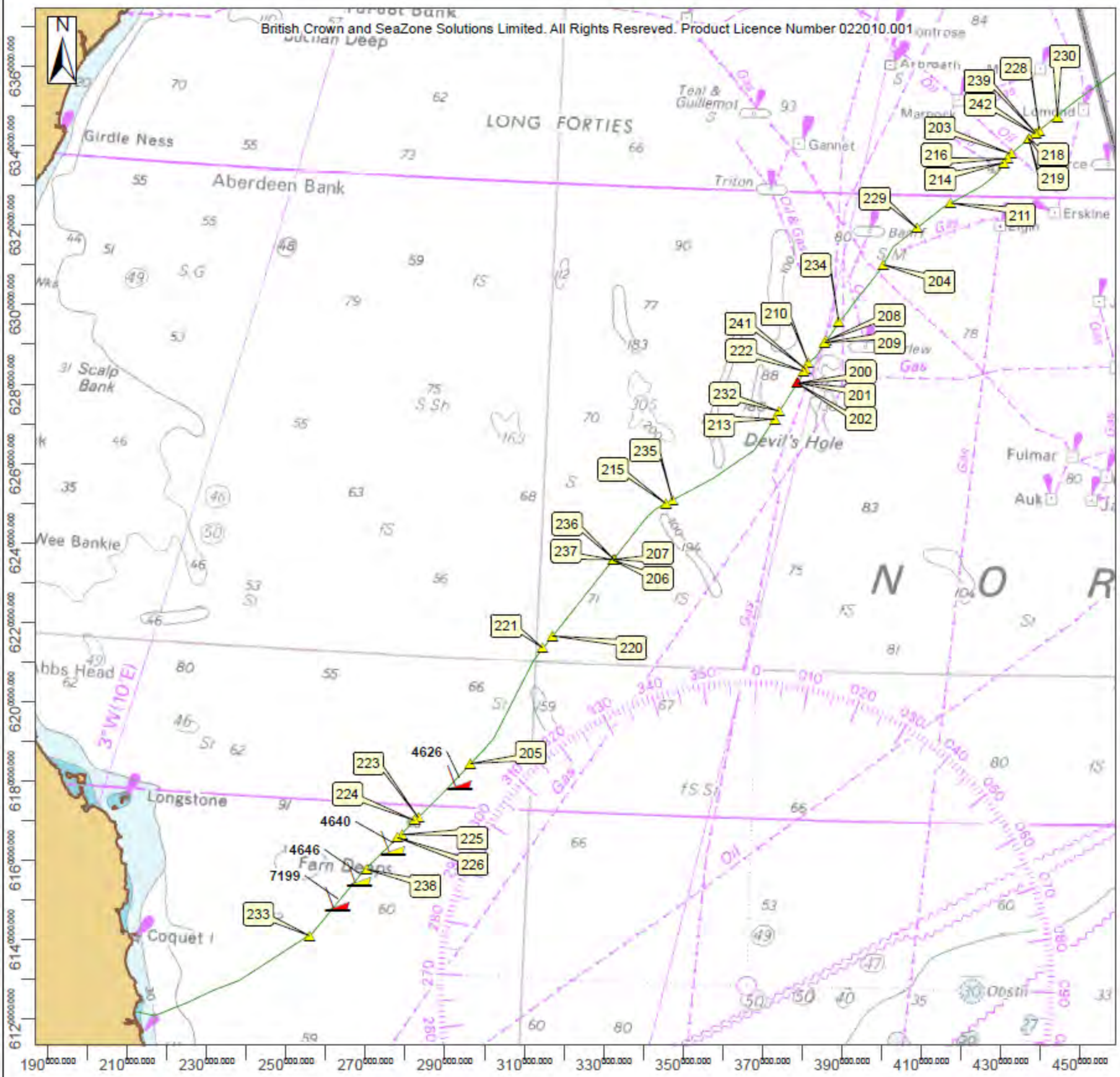
- 0 - 1
- 1 - 5
- 5 - 10
- 10 - 50
- 50 - 100
- 100 - 150
- 150+



Date	Friday, November 15, 2013 12:53:09
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	ORBIS, OSOD, JNCC, GEBCO, UKDEAL, Scottish Government(2013), Thompson etal(2010)
File Reference	J:\P1568\Mxd\Environment\Environmental Report\ Nov_13\Fig13_4_Grey_Seal_Distr.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
 Valued Quality. Delivered.
 © Metoc Ltd, 2014. All rights reserved.

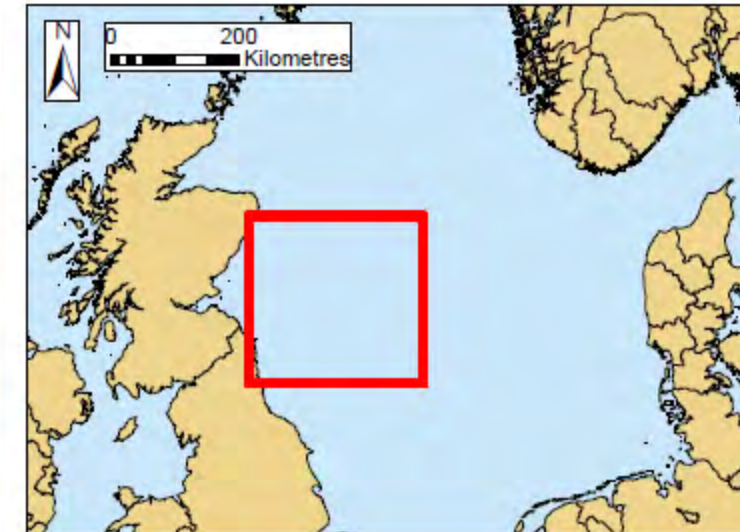
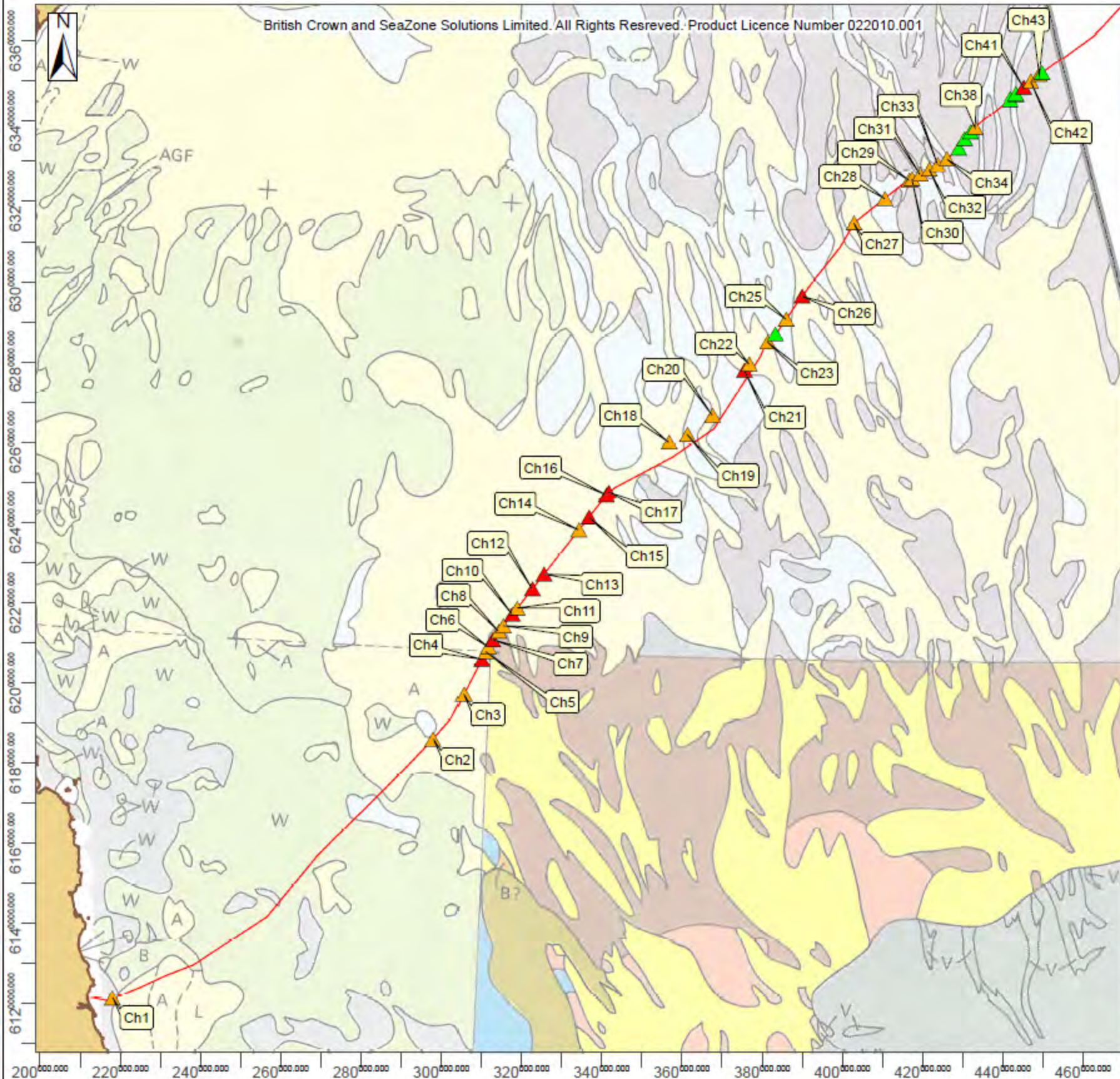
Contains Ordnance Survey data © Crown copyright and database right 2013
 Contains Ordnance Survey and UK Hydrographic Office data © Crown copyright and database right 2012. Marine Management Organisation.



1:1,000,000 Projection: UTM 31N (m)

**North Sea Network HVDC Cable
OFFSHORE ARCHAEOLOGICAL ASSESSMENT
December 2013**

Figure 14.1: Potential Wrecks within 250m, and known wrecks within 500m of cable route.



Palaeochannels

- ▲ High potential
- ▲ Medium potential
- ▲ Low potential

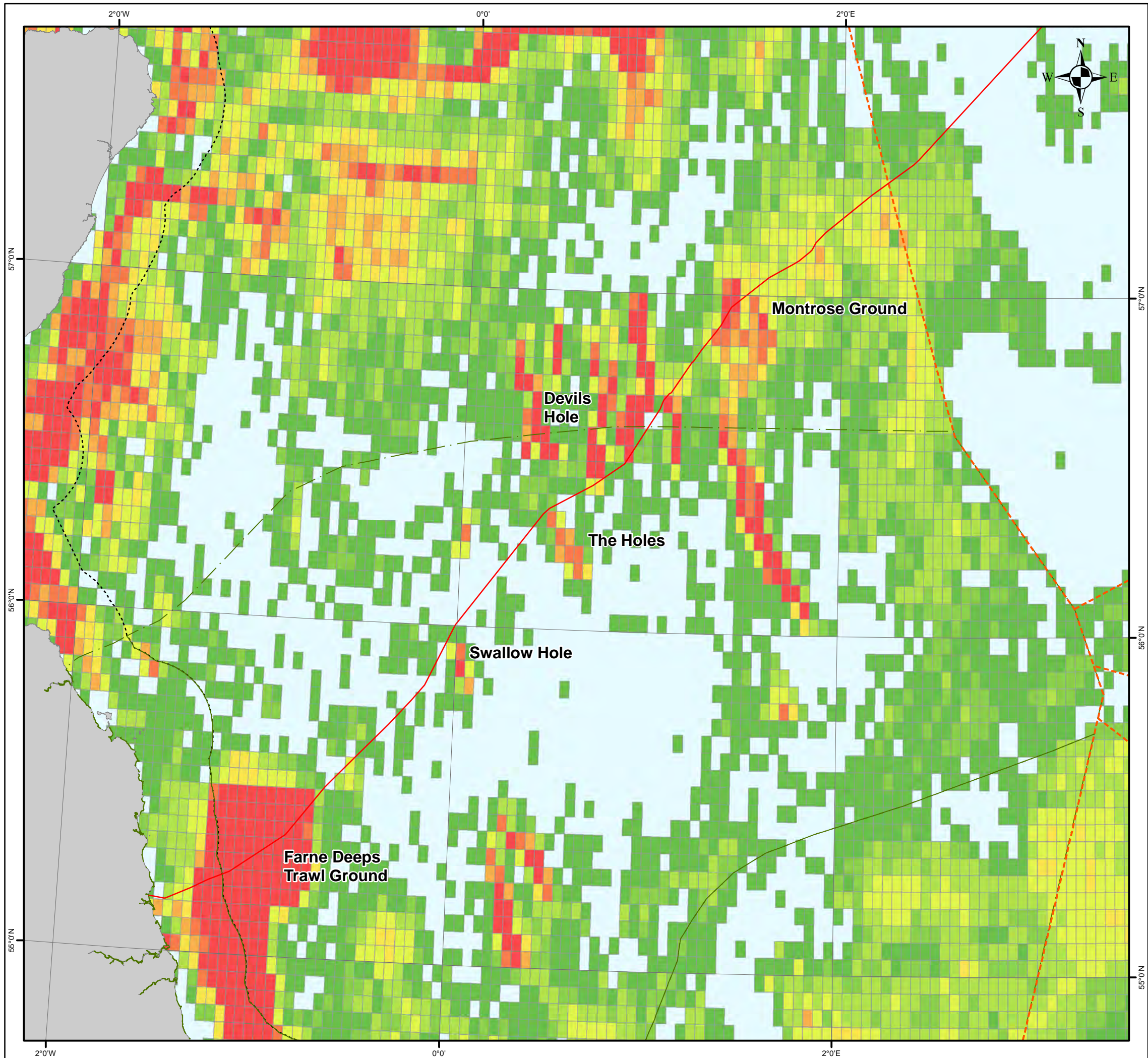
— Proposed cable route

1:1,000,000 Projection: UTM 31N (m)

0 10 20 30 40 50
Kilometers

North Sea Network HDVC Cable
OFFSHORE ARCHAEOLOGICAL ASSESSMENT
August 2013

Figure 14.2: Palaeochannels of Archaeological Potential



**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 15.2: Location of commercial fishing activity along the proposed NSN route

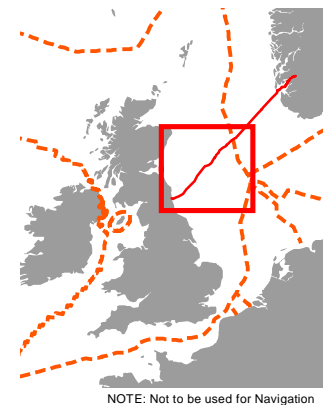
Legend

- Proposed Marine Cable Route
- UK Median Line
- UK 12nm limit
- MMO Marine Plan Boundary

Fishing Activity 2007-2010

Mobile Vessel Activity (Hours)

- < 500
- > 500
- > 1000
- > 2500
- > 5000
- > 7500
- > 10000
- > 15000



NOTE: Not to be used for Navigation

Date	Friday, February 21, 2014 16:46:25
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, DECC, ESRI, MMO, UKDeal, RSS
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Fig15_2_Commercial_Fishing_Act.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.
© Metoc Ltd, 2014.
All rights reserved.

Contains Ordnance Survey data © Crown copyright and database right 2013

**National Grid International Ltd
and Statnett SF
Norway - UK Interconnector
Figure 15.3 Potting Locations**

Legend

- Proposed Marine Cable Route
- UK 6nm limit
- Potter - Lobster & Edible Crab
- Potter - Prawn (Nephrops)
- Potter - Whelk

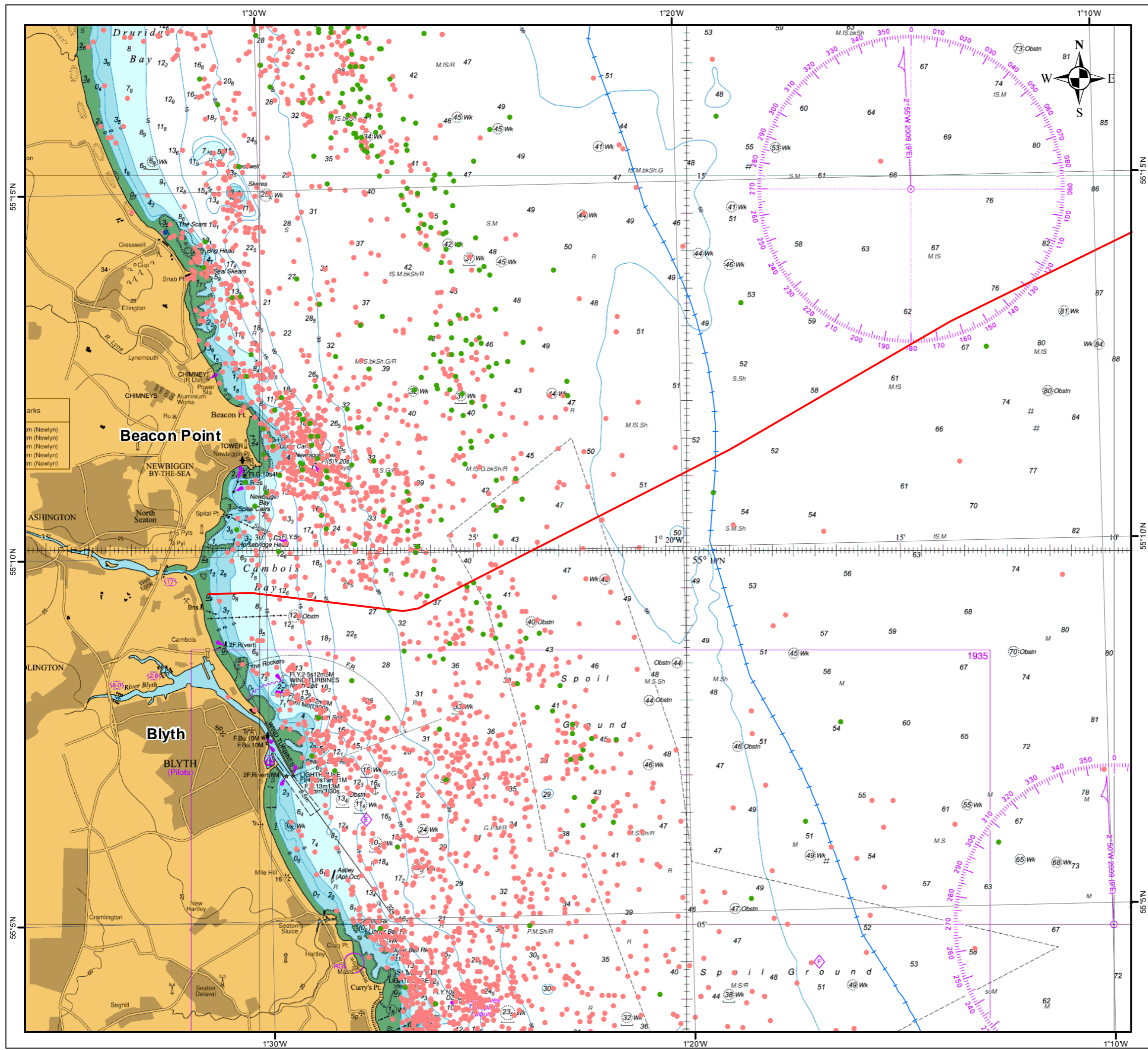
Potting Method (2002 - 2012)



NOTE: Not to be used for Navigation

Date	Friday, November 15, 2013 14:09:39
Projection	WGS_1984_UTM_Zone_30N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, NIFCA
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig15_3_Potting_Locations.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

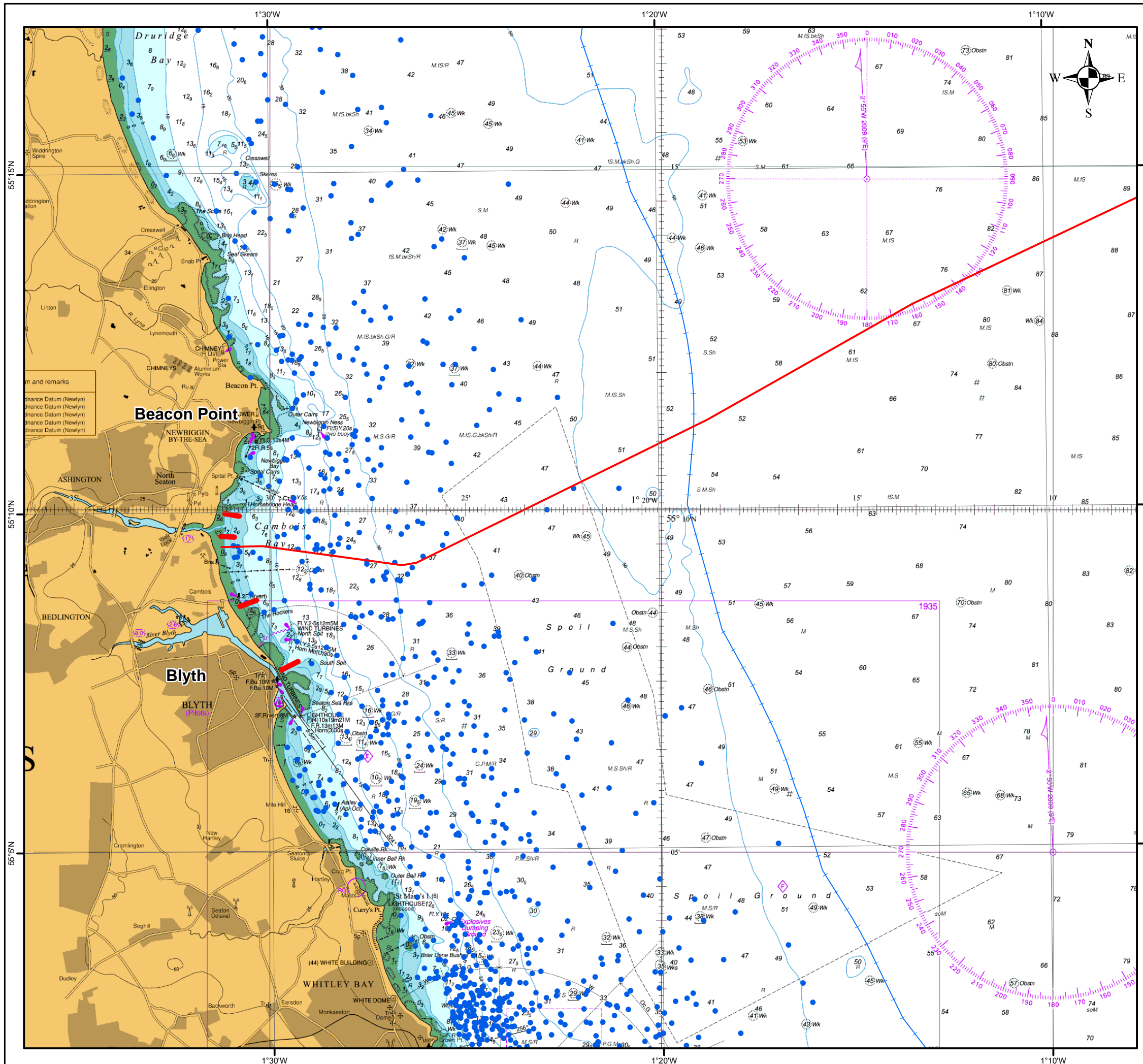
Valued Quality. Delivered.
© Metoc Ltd, 2013. All rights reserved.



National Grid International Ltd and Statnett SF
Norway - UK Interconnector
Figure 15.5: Gill Net Locations

Legend

- Proposed Marine Cable Route
- Trawl Lines
- Gill Netting Activity (2002 - 2012)
- UK 6nm limit



NOTE: Not to be used for Navigation

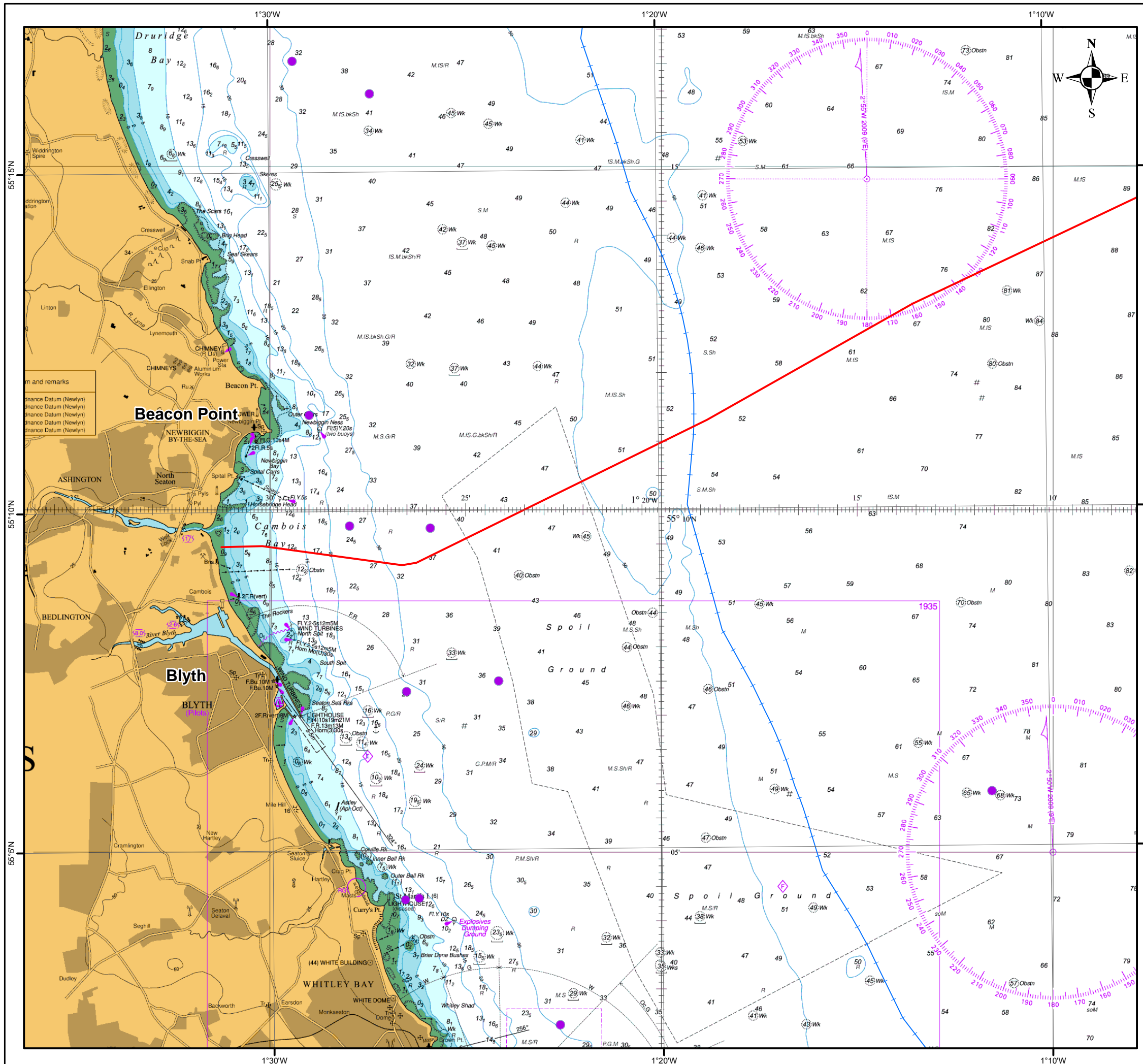
Date	Friday, February 21, 2014 17:07:01
Projection	WGS_1984_UTM_Zone_30N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, NIFCA, RSS
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Fig15_5_Gill_Net_Activity.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
 Valued Quality. Delivered.
 0 0.5 1 2 3 4 5 km
 © Metoc Ltd, 2014. All rights reserved.

National Grid International Ltd and Statnett SF
Norway - UK Interconnector
Figure 15.7 Scallop Dredging Activity

Legend

- Proposed Marine Cable Route
- Scallop Dredging Activity (2002 - 2012)
- UK 6nm limit



NOTE: Not to be used for Navigation

Date	Friday, February 21, 2014 17:13:00
Projection	WGS_1984_UTM_Zone_30N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	OSOD, NIFCA, RSS
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Fig15_7_Scallop_Dredging.mxd
Created By	Ian Charlton
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
 Valued Quality. Delivered.
 0 0.5 1 2 3 4 5 km
 © Metoc Ltd, 2014. All rights reserved.

**National Grid International Ltd
and Statnett SF**

Norway - UK Interconnector

Figure 17.1 Offshore Infrastructure

Legend

- Proposed Marine Cable Route
- Median Line
- Scottish/English Median Line
- × Wind Turbine
- Diffuser
- Proposed Blyth Offshore Wind Demonstration Site

Cables

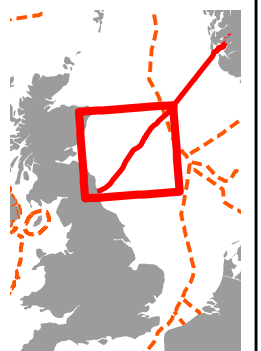
- Power
- Telecom
- Proposed Blyth Offshore Wind Demonstration Site Export Cable

Oil and Gas Infrastructure

- Well
- ◆ FPSO
- Platform
- Pipeline
- Hydrocarbon Field

Oil and Gas Operators within 1 km

- Britoil Public Ltd
- Shell UK Ltd
- BG International Ltd
- Total E&P UK Ltd
- First Oil Expro Ltd
- CNR International UK Ltd
- Maersk Oil North Sea UK Ltd
- Talisman Energy UK Ltd

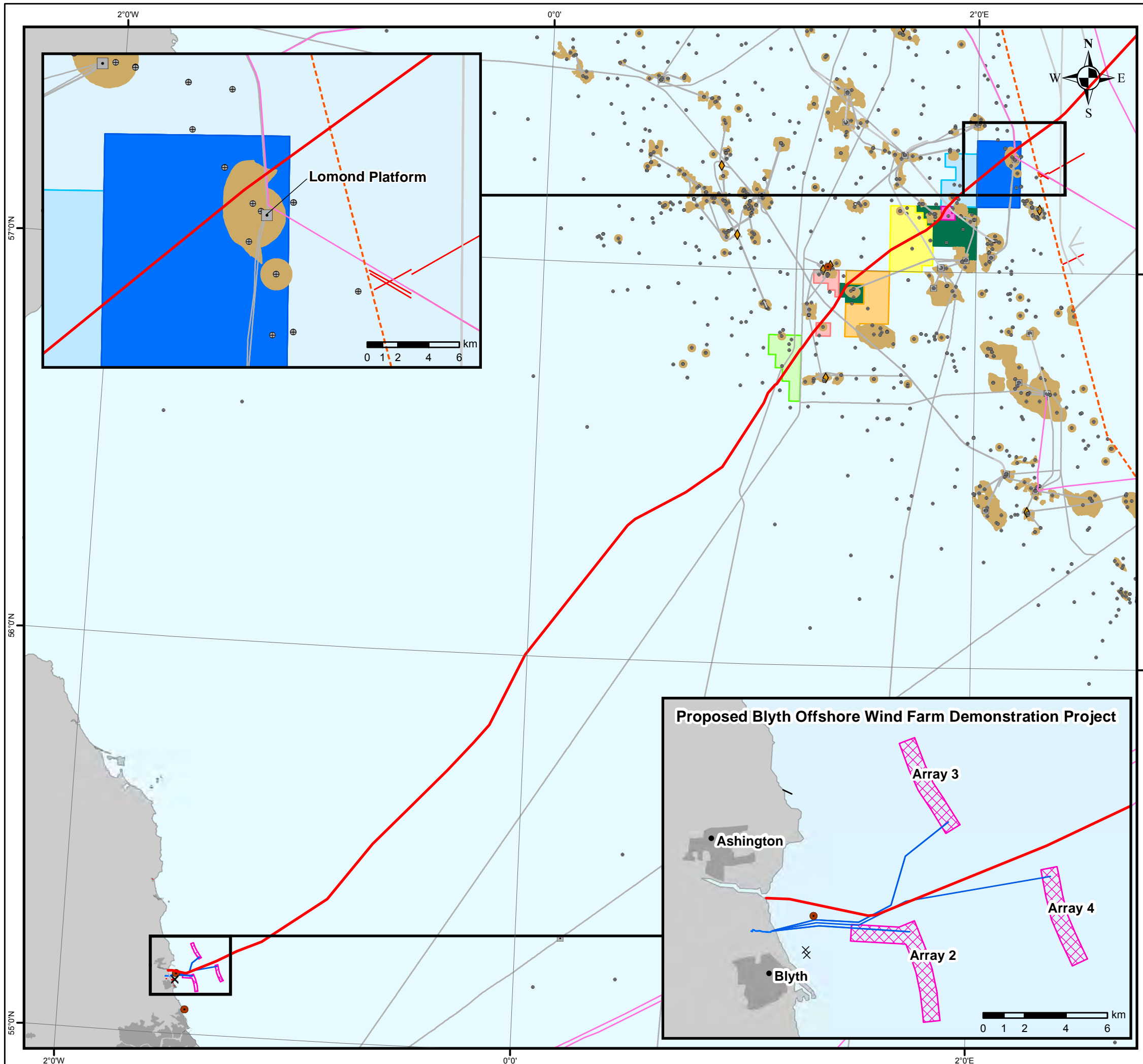


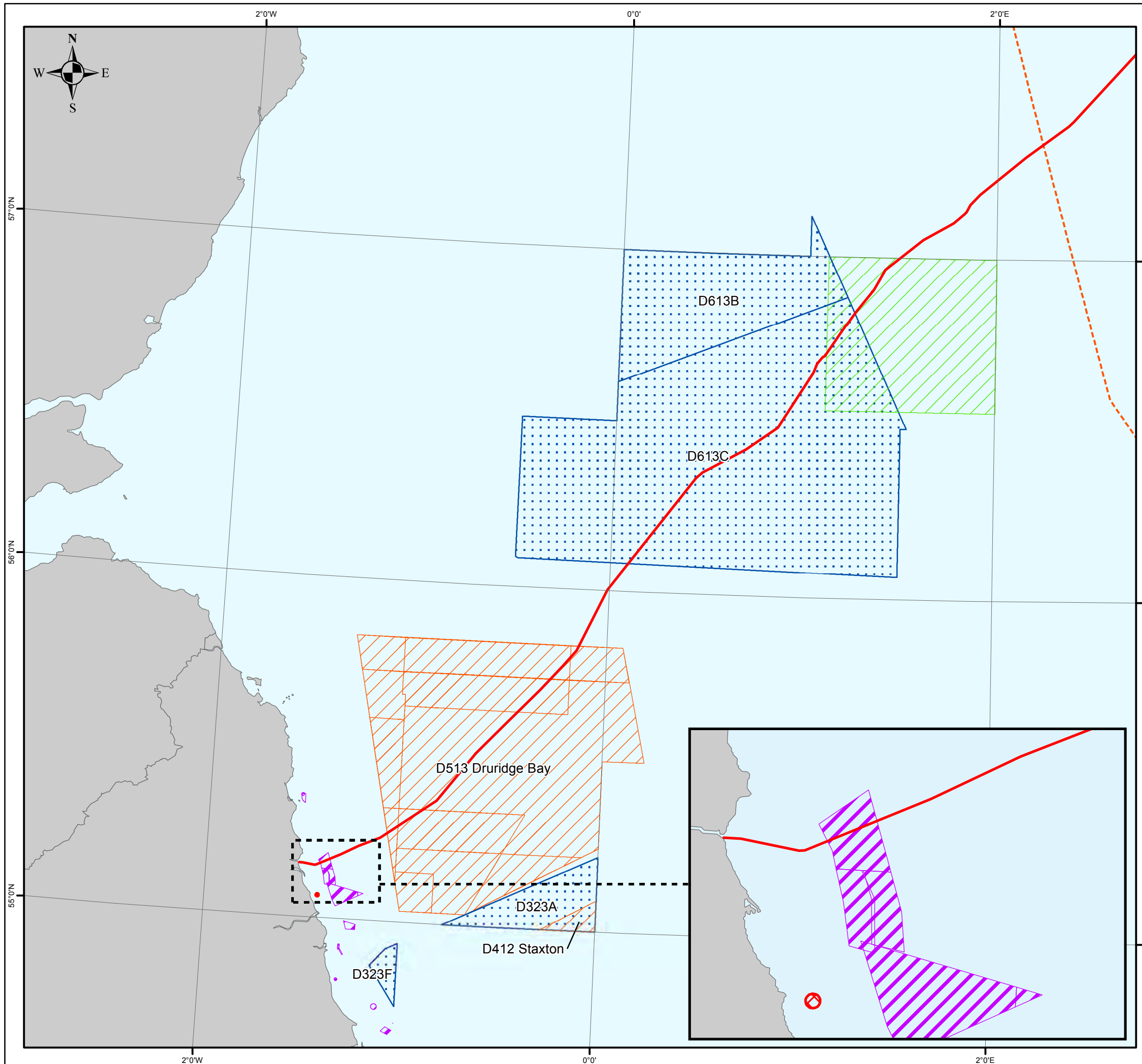
NOTE: Not to be used for Navigation

Date	Wednesday, July 3, 2013 11:39:48
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	SeaZone, UKDEAL, KISCA, NAREC, ESRI, GEBCO
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Final\Figure_17.1_Offshore_infrastructure.mxd
Created By	Jill Hobbs
Reviewed By	Emma White
Approved By	Name of Approver / Date

Valued Quality. Delivered.

© Metoc Ltd, 2013. All rights reserved.





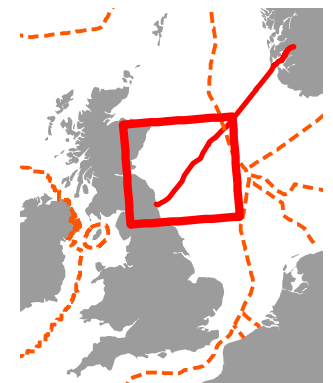
**National Grid International Ltd
and Statnett SF**
Norway - UK Interconnector
Figure 18.1 Dredging, Disposal
and Military Practice Areas

Legend

- Proposed Marine Cable Route
- - - Median Line

- Disposal sites**
- Closed
- Disused
- Open
- Explosives Disposal Site

- Military Practice Areas**
- Area Of Intense Aerial Activity
- Firing Danger Area
- Submarine Exercise Area



NOTE: Not to be used for Navigation

Date	Friday, November 15, 2013 12:55:11
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	GEBCO, CEFAS, SeaZone
File Reference	J:\P1568\Mxd\Environment\Environmental Report\Nov_13\Fig18_1_Dredging_Disposal_Areas.mxd
Created By	David Bower
Reviewed By	Emma White
Approved By	Paula Dalglish

nationalgrid Statnett Intertek
Valued Quality. Delivered.

0 5 10 20 30 40 50 km

© Metoc Ltd, 2014. All rights reserved.

© British Crown and SeaZone Solutions Limited. All rights reserved. Products Licence No.112011.014. This product has been derived in part from material obtained from the UK Hydrographic Office with the permission of the Controller of Her Majesty's Stationery Office and UK Hydrographic Office (www.ukho.gov.uk).
NOT TO BE USED FOR NAVIGATION