Fra: Stephen Hayes <shayes@egssurvey.co.uk>
Sendt: 9. februar 2024 11:35
Til: $Kystdirektoratet (kdi)
Emne: Application to conduct Marine Survey for AURORA Cable System
Vedhæftede filer: Danish_Coastal_Directorate_Application for authorisation of installations in the territorial sea_AURORA Marine Survey.docx; Danish_Coastal_Directorate_Application for authorisation of installations in the territorial sea_AURORA Marine Survey.pdf

Kategorier: Gul

Dear Sirs,

Please find attached our completed application form for the Marine Survey works required for the AURORA Telecommunication Cable System. Both Word and PDF formats attached, PDF is signed. A separate application will be made for the installation of the Cable System.

I will send Annexes for this application by separate email (9.5Mb).

For your information, we will submit our application to the Danish Geodata Agency in the next few days.

Kind regards

Stephen Hayes
Technical Director

EGS International Ltd
27 Woolmer Way, Bordon
Hampshire GU35 9QE
UK

Tel: +44 1420 489 329
Fax: +44 1420 489 434
Mob: +44 7733 101 135
shayes@egssurvey.co.uk
www.egssurvey.com

Please consider the environment before printing this email

Application for authorisation of installations in the territorial sea

This application form is used when applying for permits for the establishment, renovation and extension of installations in the territorial sea.

Remember to read the instructions on page 6 before filling out the form.
Any questions regarding the application form and guidance should be directed to the Danish Coastal Authority on tel. 99 63 63 63 or by e-mail kdi@kyst.dk.

Note: An application can only be processed when all necessary information is available.

To the Coastal Directorate's notes:

Date of receipt:		*Journal nr.:*	
Project Type:		*Caseworker:*	

A. Information on the owners of the land register(s) on which the installation is being built

Name ARELION		
Address Industrivej 15, Norre Nebel 6830		
Local place name / Contact Keld Gregers Sorensen	Postcode	City
Telephone no. +45 28279767	Mobile No.	Email Keld.sorensen@arelion.com

E. Description of the installation as a whole

Can possibly be elaborated in appendices

Note: Necessary supporting documents must also be attached, see box I

This application is for the marine survey works that are required across the Danish Territorial Waters (TW), Contiguous Zone (CZ) and Exclusive Economic Zone (EEZ) in support of the AURORA Fibre Optic Telecommunication System between the USA and Denmark.

The project owner is US based global telecommunication company.

The project owner has contracted Alcatel Submarine Networks (ASN) to be the system supplier and installer. ASN have in turn subcontracted EGS International Ltd (EGS) to undertake the marine survey works required in Danish TW / CZ / EEZ. The marine survey is required to be completed as soon as possible, and is currently scheduled to take place in Q2 / Q3 2024.

The following Annexes are attached to more fully describe the project and the required survey works:

Annex 1a	AURORA Cable System Overview – Admiralty Chart
Annex 1b	AURORA Cable System Overview – National Boundaries Chart
Annex 2	AURORA Cable System European Waters Chart
Annex 3	AURORA Cable System Danish Waters Chart
Annex 4	AURORA Cable System Danish Landfall Chart

The routing of the AURORA Cable System in Danish TW exactly follows the route of the old telecommunication cable from the TAT-14 system, which was decommisioned and largely recoverered in 2021. In particular the AURORA cable will reuse the Horizontal Directional Drilled (HDD) duct to take the marine cable from its onshore termination to a location approximately 2km offshore. This will minimise any land survey activity on the foreshore and beach. It also means the the marine survey does not need to approach the shoreline.

The lengths of the cable route through Danish Waters are as follows:

TW	31.198 km
CZ	24.260 km
EEZ	143.051 km
TOTAL	**198.509 km**

The details of the marine survey required are given in Section F, and will comprise two elements carried out over seperate timeframes. The first element will be an acoustic hydrographic and geophysical survey, and the second element will be a shallow geotechnical survey (to investigate the shallow geology to a maximum depth of 3m below seabed) using a gravity corer and grab sampler to take physical samples (at ~10km intervals along the route) and a seabed deployed Cone Penetrometer Testing rig (CPT) (at ~4km intervals along the route).

The acoustic hydrographic and geopysical survey will be conducted using generally 5 or 3 lines to cover the required 500m wide survey corridor. Therefore, the survey activity will be relatively transient in nature, and no given area will be subject to long term activity. The survey systems in use do not use high powered acoustic sources (as would be used in deep seismic investigations for oil and gas exploration, for example) and therefore can be considered as relatively benign in terms of environmental impact. The acoustic details of the sources to be used are given in **Annex 5**. Where presence of marine mammals is considered to be high, acoustic systems on first start-up will be initiated using 'soft start' principles (when the equipment allows it). There will be no physical contact with the seabed during the geophysical survey.

The shallow geotechnical survey will impact the seabed, but only at very widely spaced intervals as detailed above. Geotechnical deployment locations will be screen using the geophysical survey data to avoid interaction with potential Annex I habitats. Similarly any areas of potential archaelogical interest will also be avoided.

The cable route does not pass through, or close to any Natura 2000 areas in Danish Waters.

F. Description of planned working methods

Can possibly be elaborated in appendices

The marine survey required comprises two elements carried out over seperate timeframes.

The first element will be an acoustic hydrographic and geophysical survey to cover a 500m wide corridor centred on the cable route centreline (as shown in Annex 3 and along the coordinates given in Annex 7). Survey lines will be run along the route centreline with additional equally spaced parallel lines run on either side of the centreline. The number of lines surveyed will decrease with increasing water depth, as listed below:

5m - 15m WD:	9 - 13 lines
15m – 20m WD:	7 lines
20m – 50m WD:	5 lines
>50m WD:	3 lines

A small coastal survey vessel will be used within Danish TW, operating a maximum 12 hours per day, while a larger offshore surevy vessel will be used to survey over the Danish CZ and EEZ, operating 24 hours per day.

The acoustic equipment used will be as follows (type & manufacturer):

Multi-beam Echo Sounder (MBES)	Kongsberg EM2040 Dual Head
Ultra-short baseline positioning system (USBL)	Sonardyne Mini Ranger 2
Side Scan Sonar (SSS)	EdgeTech 4200 / 4205
Sub-bottom Profiler (SBP)	Innomar SES Medium-100

Annex 5 lists the acoustic frequencies for these items of equipment, together with source level output.
It is anticipated that the hydrographic and geophysical survey will take place over ~4 week period in May/June 2024.

A marine magnetometer may be deployed at discrete locations to locate any buried cables or pipelines that cannot be observed in the acoustic data. A Geometric G882 MAG would be utilised if this is necessary.

The second survey element will be a shallow geotechnical survey to investigate the shallow geology to a maximum depth of 3m below seabed. This will be carried out after the acoustic survey has been complete and analysed, currently being scheduled for a period of 2-4 weeks in July/August 2024. This work would be carried out using the same offshore survey vessel.

Physical samples will be aquired using a 3m gravity corer or grab sampler to take small volume samples at ~10km interlvals along the route.

A seabed deployed Cone Penetrometer Testing rig (CPT) will be used to penetrate the seabed at ~4km intervals along the route. The CPT rig is ~2.2m square and will be lowered to the seabed at test locations and a small CPT cone (≤10cm2 surface area) pushed into the seabed to a maximum depth of 3m before being retracted back into the rig and the rig then lifted from the seabed. The duration of the test will typically be less than 5 minutes.

G. Deepening

Should dredging be carried out in connection with the installation?

☐ Yes

☑ No

If yes, the quantity for dredging must be indicated _____ m³

Description of how the sediment from the dredging is subsequently to be treated:

H. Filling

Is the installation subject to backfilling in the territorial sea?

☐ Yes

☑ No

If yes, the amount of backfill material must be indicated; _____ m³

Description of the quality of the backfill material:

I. Necessary Annexes

The following annexes must be attached:

- Charts with marked installations
- Cadastral map with marked installations
- Plan and sketch drawing of the entire plant
- Targeted section drawings of any moles, bridges, etc.
- Targeted overview map with the entire plant plotted
- Declarations of consent from affected landowners

Any other relevant material:

See listed Annexes in Section E.
In addition we have appended the following:
Annex 6 AURORA Cable System - Route Position List in Danish Waters
Annex 7 AURORA Cable System - Route KML file for Danish Waters
Annex 8 AURORA Cable System - Route Shape files for Danish Waters

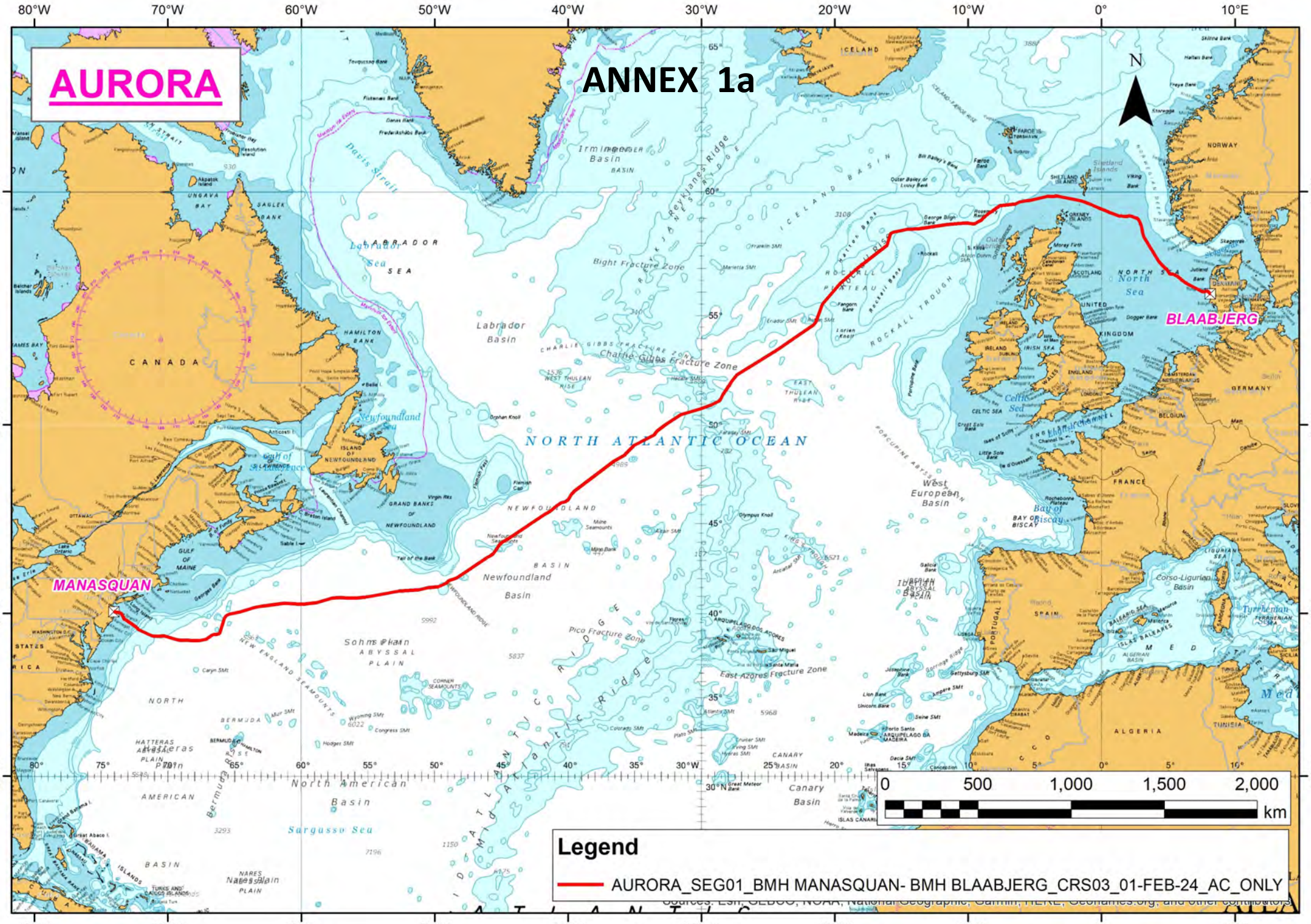
J. Declaration and signature

I, the undersigned, declare that the information given in the application is in accordance with the facts.

Date	Full name *(use block capitals)*	Signature
08.02.2024	STEPHEN HAYES	

Applications should be sent by post to:
Norwegian Coastal Directorate
Højbovej 1PO Box 100
DK-7620 Lemvig

Eller via e-mail: ***kdi@kyst.dk***


AURORA
ANNEX 1a
MANASQUAN
BLAABJERG
NORTH ATLANTIC OCEAN
Labrador Sea
Newfoundland Basin
Irminger Basin
Labrador Basin
Iceland Basin
Rockall Trough
Rockall Plateau
Charlie-Gibbs Fracture Zone
Bight Fracture Zone
Pico Fracture Zone
East Azores Fracture Zone
Sohm Plain Abyssal Plain
North American Basin
Sargasso Sea
Canary Basin
West European Basin
Bay of Biscay
Celtic Sea
North Sea
Corso-Ligurian Basin
Tyrrhenian
Med
CANADA
ICELAND
NORWAY
FRANCE
SPAIN
PORTUGAL
ALGERIA
TUNISIA
IRELAND
ENGLAND
SCOTLAND
BELGIUM
GERMANY
0 500 1,000 1,500 2,000
km
Legend
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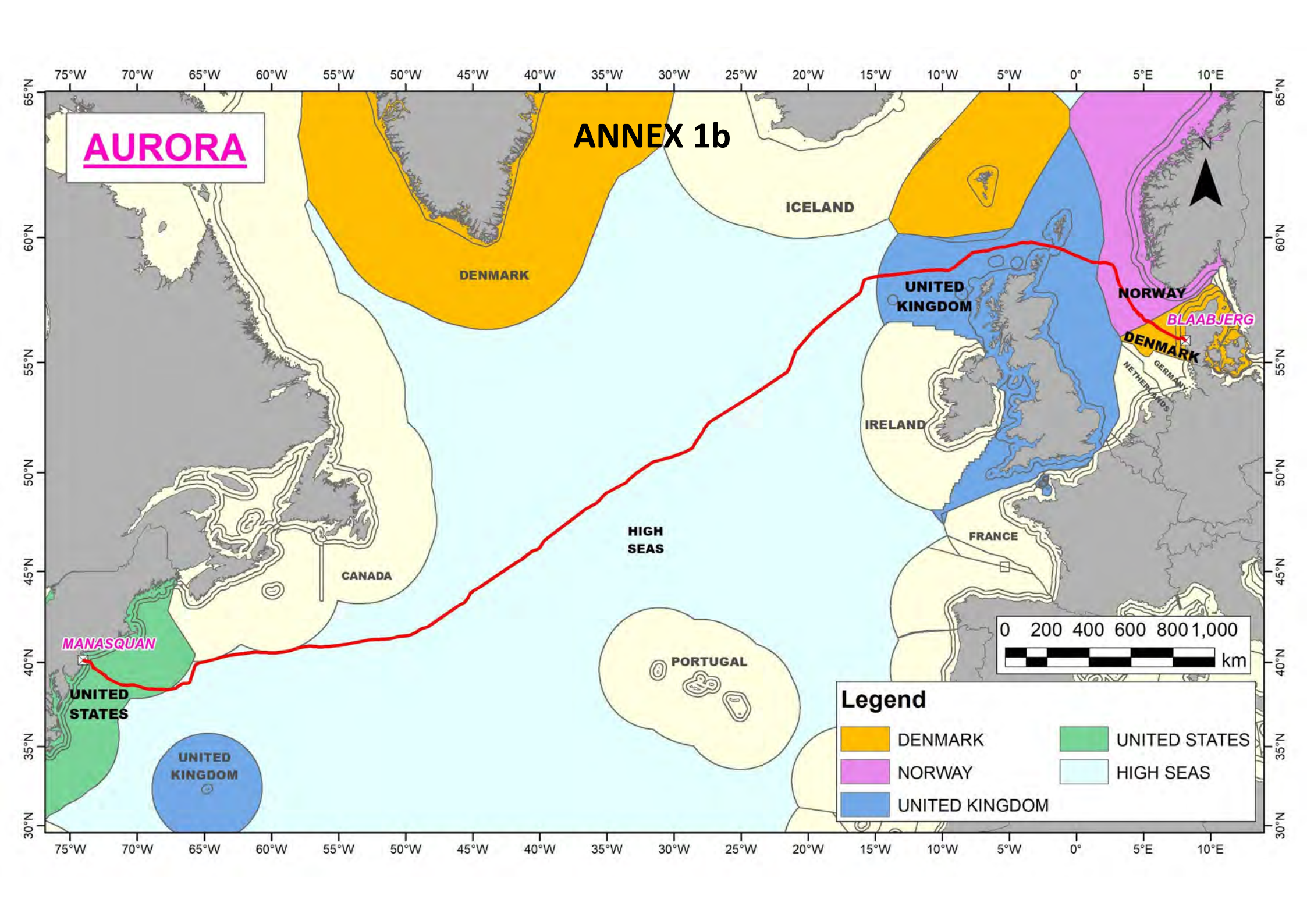
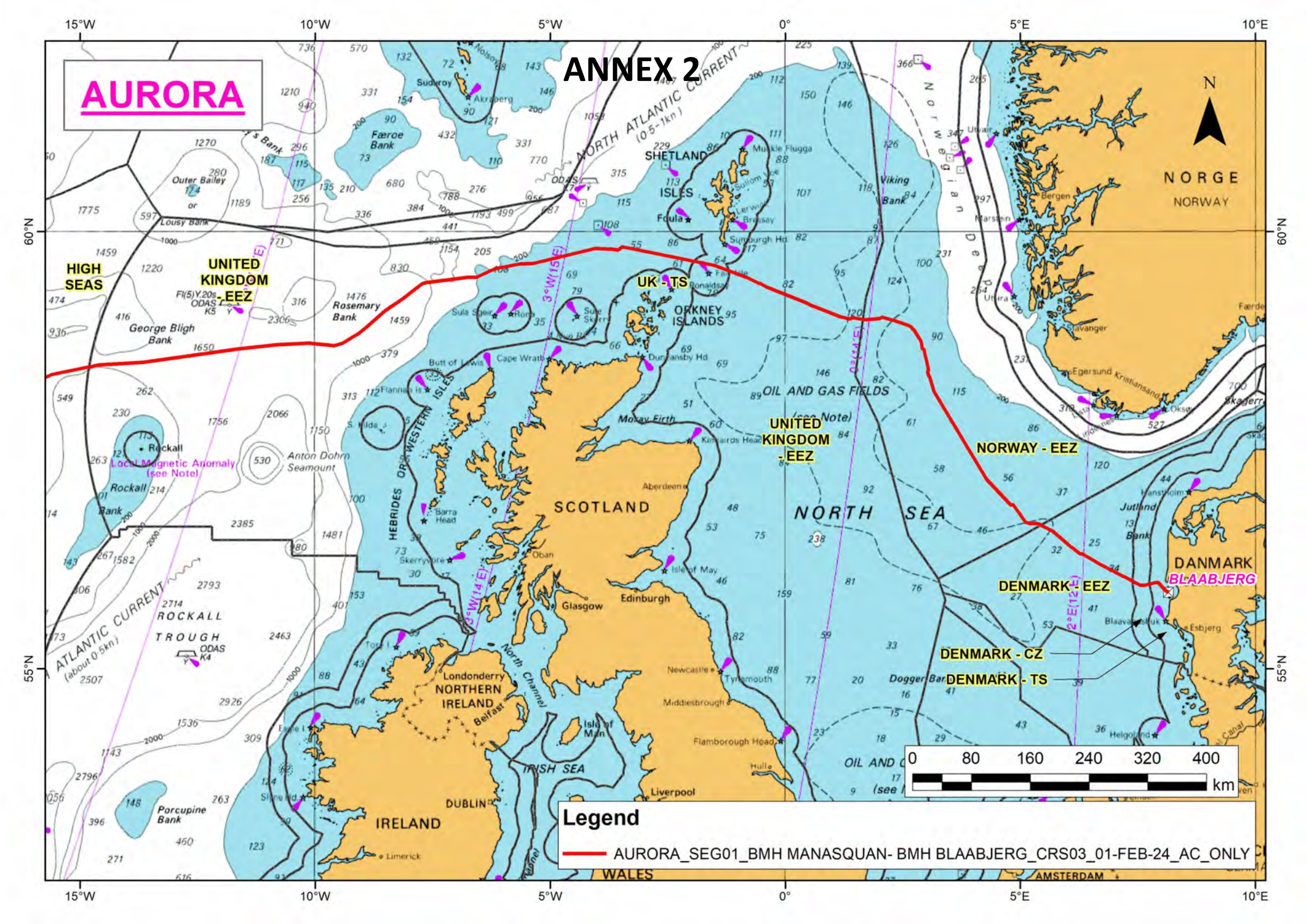

AURORA
ANNEX 1b
ICELAND
DENMARK
UNITED KINGDOM
NORWAY
BLAABJERG
DENMARK
NETHERLANDS
GERMANY
IRELAND
FRANCE
HIGH SEAS
CANADA
PORTUGAL
MANASQUAN
UNITED STATES
UNITED KINGDOM
N
0 200 400 600 800 1,000
km
Legend
DENMARK
NORWAY
UNITED KINGDOM
UNITED STATES
HIGH SEAS


AURORA
ANNEX 2
15°W
10°W
5°W
0°
5°E
10°E
60°N
55°N
HIGH SEAS
UNITED KINGDOM - EEZ
UK - TS
NORWAY - EEZ
DENMARK - EEZ
DENMARK - CZ
DENMARK - TS
OIL AND GAS FIELDS (see Note)
Local Magnetic Anomaly (see Note)
SHETLAND ISLES
ORKNEY ISLANDS
HEBRIDES
SCOTLAND
NORTH SEA
IRELAND
NORTHERN IRELAND
WALES
NORGE
NORWAY
DANMARK
BLAABJERG
ROCKALL TROUGH
NORTH ATLANTIC CURRENT (0·5-1kn)
ATLANTIC CURRENT (about 0·5kn)
IRISH SEA
Rosemary Bank
George Bligh Bank
Anton Dohrn Seamount
Rockall Bank
Porcupine Bank
Lousy Bank
Outer Bailey
Færoe Bank
Viking Bank
Dogger Bank
Jutland Bank
Aberdeen
Glasgow
Edinburgh
Belfast
Londonderry
Dublin
Limerick
Liverpool
Hull
Newcastle
Middlesbrough
Flamborough Head
Isle of May
Oban
Cape Wrath
Kinnaird Head
Fair Isle
Foula
Sumburgh Hd.
Muckle Flugga
Stavanger
Bergen
Egersund
Kristiansand
Esbjerg
Helgoland
Skagerrak
0 80 160 240 320 400
km
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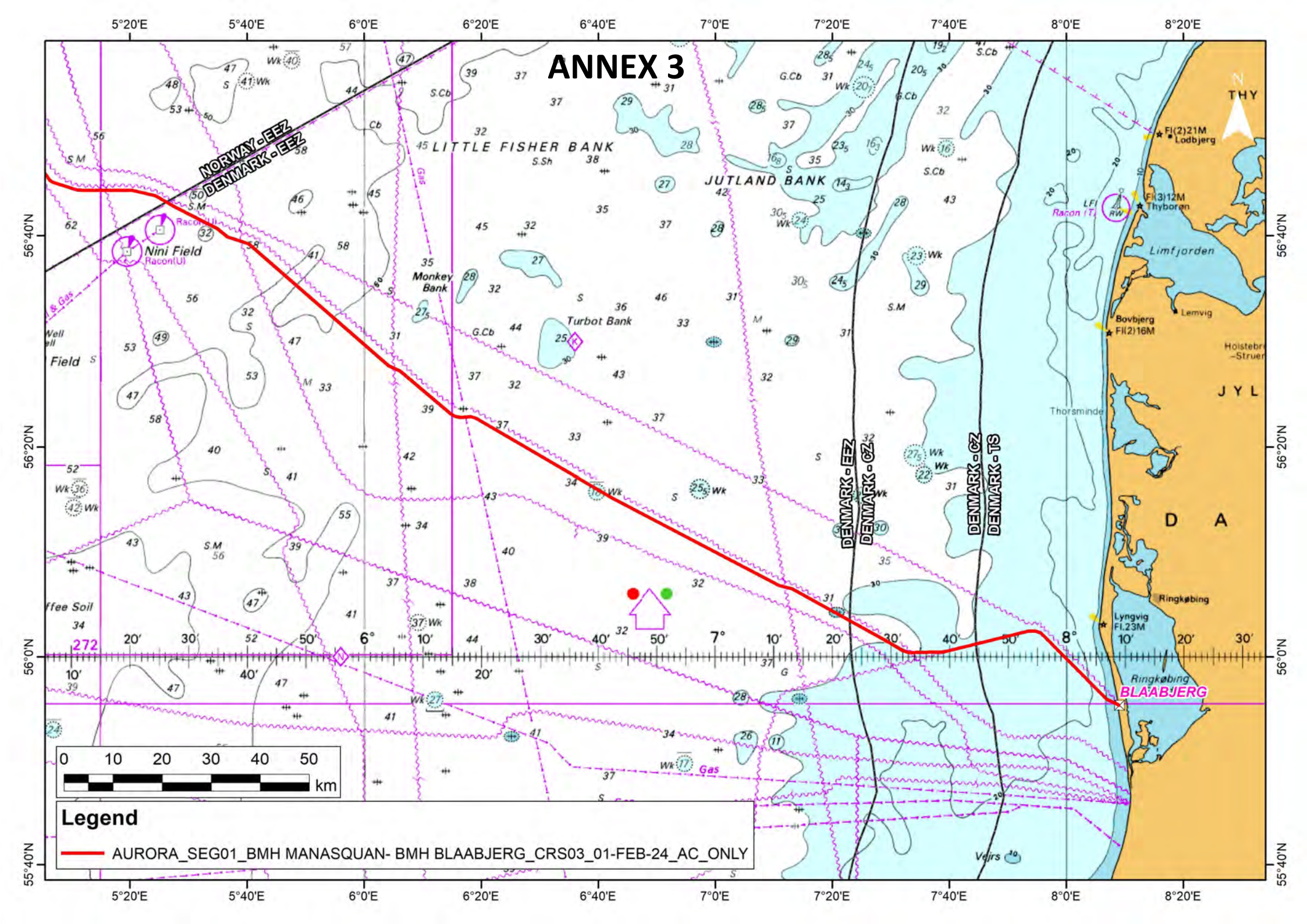
ANNEX 3
NORWAY - EEZ
DENMARK - EEZ
LITTLE FISHER BANK
JUTLAND BANK
Monkey Bank
Turbot Bank
Nini Field
Racon(U)
Field
Limfjorden
Lemvig
Bovbjerg
Fl(2)16M
Fl(2)21M
Lodbjerg
Fl(3)12M
Thyborøn
Racon (T)
Thorsminde
Ringkøbing
Lyngvig
Fl.23M
BLAABJERG
THY
JYL
DENMARK - EEZ
DENMARK - CZ
DENMARK - CZ
DENMARK - TS
Gas
Veirs
0 10 20 30 40 50
km
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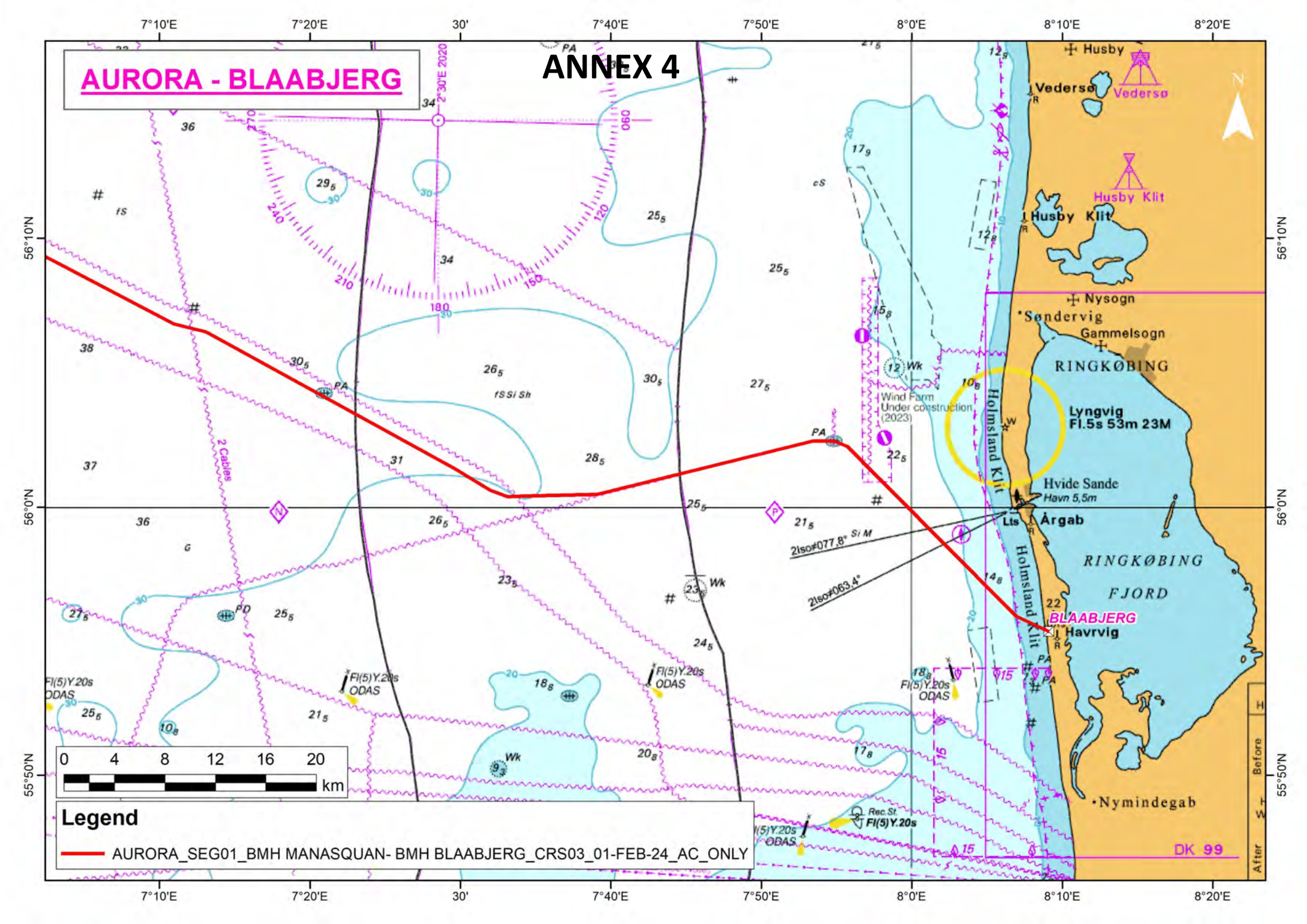
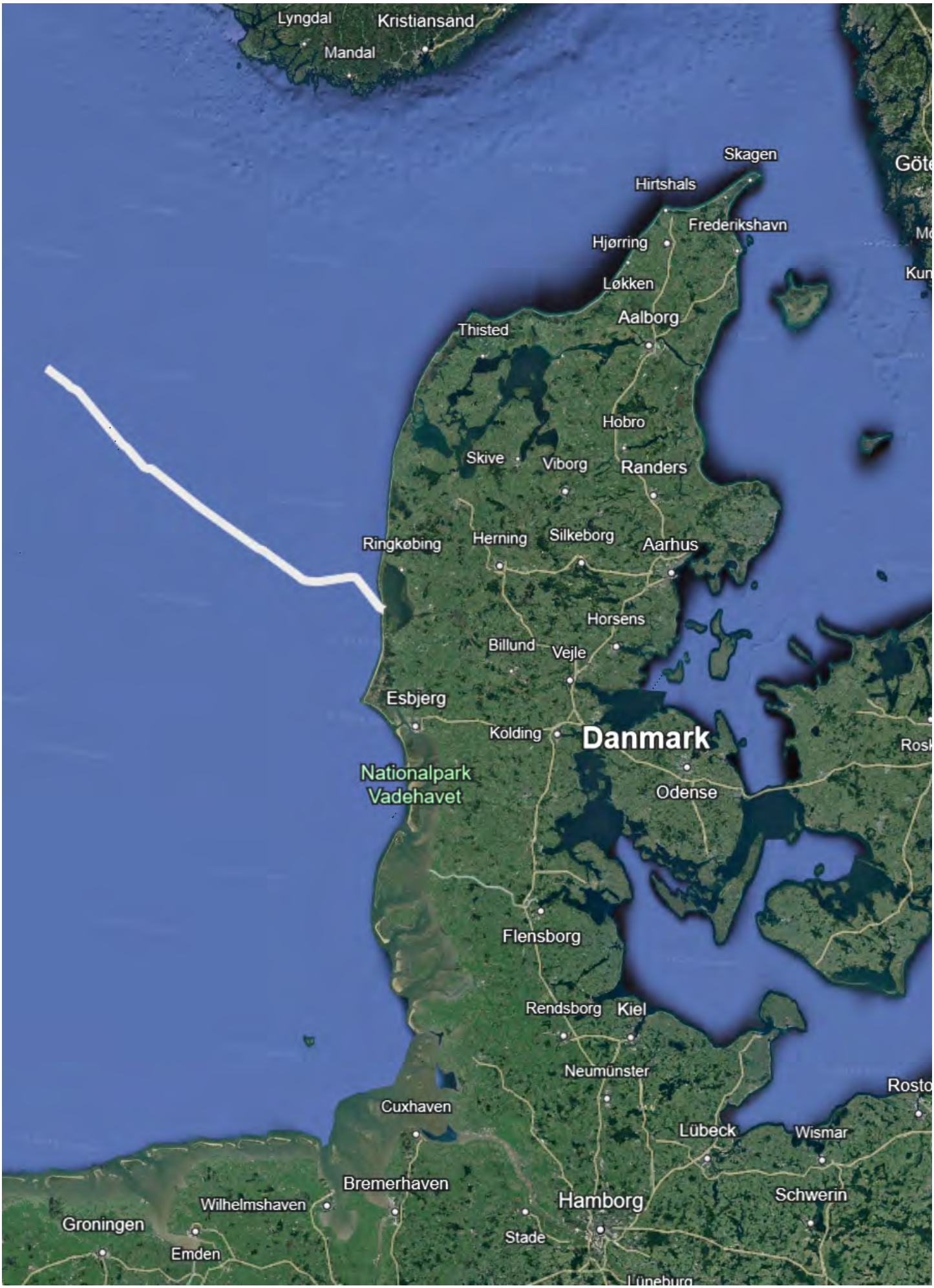

AURORA - BLAABJERG
ANNEX 4
7°10'E
7°20'E
30'
7°40'E
7°50'E
8°0'E
8°10'E
8°20'E
56°10'N
56°0'N
55°50'N
Husby
Vedersø
Husby Klit
Nysogn
Søndervig
Gammelsogn
RINGKØBING
Lyngvig
Fl.5s 53m 23M
Wind Farm
Under construction
(2023)
Holmsland Klit
Hvide Sande
Havn 5,5m
Lts
Årgab
RINGKØBING
FJORD
BLAABJERG
Havrvig
Nymindegab
Fl(5)Y.20s
ODAS
Rec.St
Fl(5)Y.20s
2Iso≠077,8° Si M
2Iso≠063,4°
2 Cables
DK 99
0 4 8 12 16 20
km
Legend
AURORA_SEG01_BMH MANASQUAN- BMH BLAABJERG_CRS03_01-FEB-24_AC_ONLY


Lyngdal
Kristiansand
Mandal
Skagen
Hirtshals
Frederikshavn
Hjørring
Løkken
Aalborg
Thisted
Hobro
Skive
Viborg
Randers
Ringkøbing
Herning
Silkeborg
Aarhus
Horsens
Billund
Vejle
Esbjerg
Kolding
Danmark
Nationalpark
Vadehavet
Odense
Flensborg
Rendsborg
Kiel
Neumünster
Cuxhaven
Lübeck
Wismar
Bremerhaven
Wilhelmshaven
Hamborg
Schwerin
Groningen
Stade
Emden

ANNEX 5

AURORA Cable Route Survey – Geophysical Survey Equipment

The table below lists the manufacturers data for sound emissions.

EQUIPMENT	TYPE	FREQUENCY (kHz)	SOURCE LEVEL (dB re 1µPa)
Kongsberg EM2040 Dual-Head	Multi-beam Echo Sounder	200-400	248
Sonardyne Mini Ranger2	Ultra-short baseline (USBL) acoustic positioning system	19-34	unknown
EdgeTech 4200	Side Scan Sonar	100-900	196
Innomar SES 2000 Medium-100	Sub-bottom Profiler	Primary 85-115 Secondary frequency band 2-22	247-250

AURORA

SEG01
From BMH MANASQUAN to BMH BLAABJERG

CABLE ROUTE STUDY

ISSUE:	DATE:
CRS03	1-Feb-2024

AUTHORISATION		
	NAME	DATE
ORIGINATOR	George BARLOW	01-Feb-2024
	Mark JONKERGOUW	

Abbreviation	Meaning	Typical Use
ABxx	As-Built	**AB01**
AC	Alter Course	**AC1**
AF	As Found (Cable)	CX IS **AF** CABLE 1
ALxx	As-Laid	**AL01**
AP	Articulated Pipe	**AP START**
BA	Beach Allowance	**BA 50m**
BMH	Beach ManHole	**BMH PORTH CURNO**
BU-xxx	Branching Unit	**BU-1 (ABJ)**
CA	Cable Allowance (Beach/Final Splice)	CABLE ALLOWANCE
CB	Concession Block	**CB ENTER SHELL B2**
CBC (HG)	Change in Burial Conditions - Hardground Layer within Target Burial	**CBC (HG)**
CBC (HT)	Change in Burial Conditions- High Tensions possible - Stiff/Dense Sediments	**CBC (HT)**
CBC (SB)	Change in Burial Conditions -Seabed Features (Boulders, Pockmarks etc)	**CBC (SB)**
CBC (SC)	Change in Burial Conditions -Strong Currents	**CBC (SC)**
CBC (SL)	Change in Burial Conditions -Marginal Slopes	**CBC (SL)**
CBC (SR)	Change in Burial Conditions -Subcropping Rock within Target Burial	**CBC (SR)**
CBC (SS)	Change in Burial Conditions - Soft sediment - Potential Plough Run Away	**CBC (SS)**
CBC (UXO)	Change in Burial Conditions – Burial where UXO Risk has been sufficiently mitigated to allow burial operations.	**CBC (UXO)**
CC	Cable Corridor	**CC** ENTER
CRE	Cable route Estimate	**CRE01**
CRS	Cable Route Study	**CRS01**
CT	Comment	CT ENTER SOFT SEDIMENT
CX	Cable Crossing	**CX IS CABLE 1**
CZ	Contiguous Zone	MB CZ ISO/EZ ISO
DA	Double Armour	DA-14
DE	Duct End	**DE**
DIS	Disputed Maritime Boundary	MB TW ISO/EZ DIS
DOB	Depth of Burial	DOB 1m
DS	Duct start	**DS**
DTS	Desk Top Study	**See "CRS"**
EA	Earth Plate	**EA SEA EARTH PLATE**
EOB	End of burial	**PLUP EOB**
EZ / EEZ	Exclusive Economic Zone	**MB EZ ISO/CZ ISO**

FS	Final Splice	**FS-ISN-001/FS FINAL SPLICE**
FZ	Fishing Zone	**MB FZ ISO/TW ISO**
IS	In Service	**CX IS CABLE 1**
IS	Initial Splice	**IS-IBZ-001/IS INITIAL SPLICE**
JB	Joint Box	**JB 1002AB-1**
KP	Kilometre Point	**KP 1521.222**
LC	Land Cable	**LC**
LP	Landing Point	**LP PORTH CURNO**

LW	Lightweight	**LW-17**
LWP	Lightweight Protected	**LWP-17**
MB	Maritime Boundary	**MB TW ISO/EZ ISO**
MDA	Medium Double Armour	**MDA-17**
OCB	Oil Concession Block	**OCB RC31- ENTER**
OOS	Out of Service	CX OOS CABLE 1
PLB	Post Lay Burial	**PLB START**
PLDN	Plough Down	**PLDN**
PLI	Post-Lay Inspection	**PLI START**
PLIB	Post Lay Inspection and Burial	**PLIB START**
PLN	Planned cable	CX PLN CABLE 1
PLUP	Plough Up	**PLUP**
PL-xxx	Post Load	**PL01**
PLSE	Pre Laid Shore End	**PLSE**
POL	Point On Line	POL
PSR-xxx	Post Survey Route	**PSR01**
PTEQ/TEQ	Passive Tilt Equaliser	**PTEQ-01101**
PX	Pipeline Crossing	**PX PIPELINE 1**
REH	Route Engineering Handbook	**REH**
RNB (HG)	Risk of Non-Burial - Hardground Layer within Target Burial	**RNB (HG)**
RNB (HT)	Risk of Non-Burial - High Tensions possible - Stiff/Dense Sediments	**RNB (HT)**
RNB (SB)	Risk of Non-Burial -Seabed Features (Boulders, Pockmarks etc)	**RNB (SB)**
RNB (SC)	Risk of Non-Burial -Strong Currents	RNB (SC)
RNB (SL)	Risk of Non-Burial -Marginal Slopes	**RNB (SL)**
RNB (SR)	Risk of Non-Burial -Subcropping Rock within Target Burial	**RNB (SR)**
RNB (SS)	Risk of Non-Burial - Soft sediment - Potential Plough Run Away	**RNB (SS)**
RNB (UXO)	Risk of Non-Burial – Burial where UXO Risk has been sufficiently mitigated to allow burial operations.	**RNB (UXO)**
ROADM		
RPL	Route Position List	**RPL**
R-xxx /RPTR	Repeater	**R01101**
SA	Single Armour	SA-14
SAH	Single Armour Heavy	**TR LWP-17/SAH-20**
SAL	Single Armour Light	**SAL-17**
SC	Slack Change	**SC 3%**

SEQ-xxx	Shape Equaliser	**SEQ-001**
SEU	Sea Earth Unit	**SEU**
SJ-YYY-xxx	Ship Joint	**SJ-ISN-001**
SLD	Straight Line Diagram	**SLD**
SOB	Start of burial	**PLDN SOB**
SRxx	Survey Route	**SR01**
SSE	Separate Shore End	**SSE**
ST	Seabed Temperature	**ST** 15
TEQ-xxx	Tilt Equaliser	**TEQ**-01101
TR	Transition	**TR** LWP-17/LW-17
TS	Terminal Station	**TS** PORTH CURNO
TW	Territorial Waters	**MB TW** ISO/CZ ISO
UXO	Unexploded Ornance	Enter **UXO** Zone
WD	Water Depth	**WD** 2300**m**

RPL CHECKLIST					
ACTIONS	YES	NO	DATE	RPL ISSUE	COMMENTS
1. CRS Routes Risk Review (ASN) - Routes Approved	✓		29-Jan-2024	CRS03	
2. CRS Routes Approved for Survey (Client)		✓			
3. Survey Routes and Notifications Issued to UKHO ,ICPC & GMCD	✓		01-Feb-2024	CRS03	
4. Major Route Changes since UKHO, ICPC & GMCD Pre-Survey? (If Yes consider re-issuing Notifications)		✓			
5. Survey Routes Issued to Survey Contractor		✓			
6. Internal Post Survey Route Risk Review Conducted		✓			
7. Client Post Survey Review Conducted		✓			
8. Client Aligned with ASN Recommendations (If No - See Change List for Details)		✓			
9. Client RPL Approval for Route (Route Fixed, SLD tbc)		✓			
10. Client Approval for Articulated Pipe Quantity		✓			
11. Cable Bodies Added		✓			
12. Separation for Cable Bodies Approved (CX/PX etc.)		✓			
13. Client RPL Approval for SLD (SLD Ready to Manufacture, RPTRs & Cable Types Fixed))		✓			
14. Crossing Notifications Prepared and on SDMS		✓			
15. Plough Review Conducted (If Route Change Proposed Inform Project Team)		✓			
16. Has Route Been Adjusted Since Fixed		✓			
17. As Built SLD Received		✓			
18. As Built RPLs to Installer		✓			
19. Post Load SLD/Cable Change Diagrams Received		✓			

20. Post Load RPLs to Installer		✓			
21. As Laid Routes Approved		✓			
22. As Laid Routes Uploaded to SDMS		✓			
23. As Laid Routes Issued to UKHO & GMCD		✓			
	ISSUE No				
GMCD Issue No	**99**				

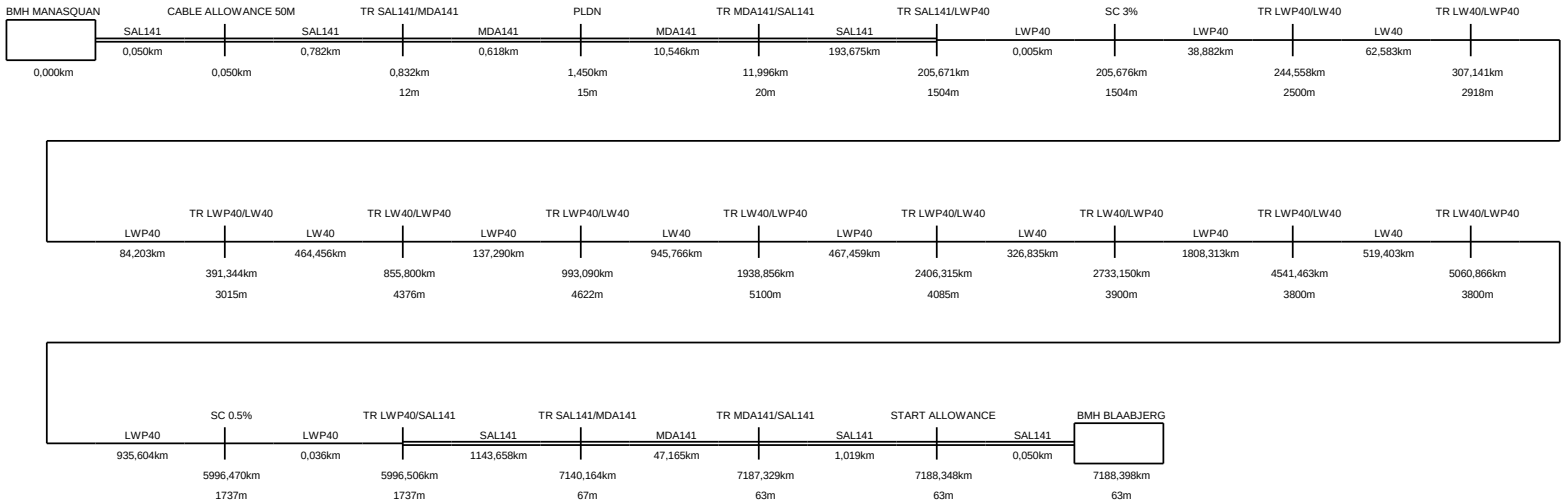
RPL / SLD & Route Engineering - CHANGES & TRACKING SHEET			
ISSUE	**DATE**	**Length**	**CHANGE**
CRS01	12-Dec-2024	Route length: 7 018,342 km Cable Length: 7 193,868 km	First release of the CRS Route Mid-DTS for Purchaser and Survey contractor feedback
CRS02	11-Jan-2024	Route length: 7 018,34 km Cable Length: 7 193,867 km	Adjustments to shore end approach at Manasquan to fit the route into HDD M3
CRS03	06-Feb-2024	Route length: 7 012,682 km Cable Length: 7 188,348 km	Changes made after RWG 01/02/2024 Triple crossing (Seabras-1/Gemini Bermuda) USA shelf removed Route moved maximum possible distance from new Hudson Canyon MPA Route moved further from Canada EZ survey swathe not in Canada waters Mid-Atlantic Ridge re-route to utilise deeper water/smoother seafloor Route in Norway EZ straightened, avoids known sand eel fishing areas as best as possible At blaabjerg, route of recovered TAT14 followed

RPL Chronology Sequence Summary	
CRE	Cable Route Estimate RPLs
CRS	Cable Study Routes RPLs
SR	Survey Route RPLs
PSR	Post Survey Route RPLs
_R	RPL Fixed
_S	SLD Fixed
_RS	RPL and SLD Fixed
_AC_ONLY	RPL stripped of all data except Alter Courses
AB	As-Built RPLs
PL	Post Load RPLs
AL	As-Laid RPLs

Point N°	Label	Latitude (WGS 84)			Longitude (WGS 84)			A/C	Brg (°)	Alter Course (- P + S)	Depth (m)	Leg Dist (km)	Cum KP Dist (km)	Reverse KP Dist (km)	Cable Type	Surface Slack (%)	Leg Cable (km)	Cum Cable (km)	Cable by Type (km)	Bottom Slack (%)	Reverse Cable Dist (km)
522	MB EZ NOR/EZ DNK	056°	43,1521'	N	005°	26,2287'	E		119,9°		79		6815,210	197,472				6989,889			198,459
												1,702			SAL141	0,50%	1,710			0,50%	
523	AC	056°	42,6949'	N	005°	27,6740'	E	AC	117,1°	2,8° Port	79		6816,911	195,771				6991,599			196,749
												1,829			SAL141	0,50%	1,839			0,50%	
524	OCB C2023/01 EXIT (INEOS E&P A/S)	056°	42,2455'	N	005°	29,2690'	E		117,1°		79		6818,741	193,941				6993,438			194,910
												6,456			SAL141	0,50%	6,488			0,50%	
525	AC	056°	40,6595'	N	005°	34,8954'	E	AC	128,9°	11,7° Stbd	78		6825,197	187,485				6999,926			188,422
												2,306			SAL141	0,50%	2,318			0,50%	
526	AC	056°	39,8800'	N	005°	36,6530'	E	AC	108,1°	20,7° Port	78		6827,503	185,179				7002,244			186,104
												2,563			SAL141	0,50%	2,576			0,50%	
527	CX IS DB FOC DANICE seg 1	056°	39,4500'	N	005°	39,0358'	E		108,1°		78		6830,066	182,616				7004,819			183,529
												1,366			SAL141	0,50%	1,373			0,50%	
528	AC	056°	39,2208'	N	005°	40,3054'	E	AC	131,1°	23,0° Stbd	78		6831,431	181,251				7006,192			182,156
												18,755			SAL141	0,50%	18,849			0,50%	
529	CT ENTER PLANNED WF Nordsren Vest	056°	32,5772'	N	005°	54,1099'	E		131,1°		76		6850,186	162,496				7025,040			163,308
												0,323			SAL141	0,50%	0,325			0,50%	
530	WD 50m	056°	32,4628'	N	005°	54,3473'	E		131,1°		76		6850,509	162,173				7025,365			162,983
												5,229			SAL141	0,50%	5,255			0,50%	
531	WD 40m	056°	30,6104'	N	005°	58,1889'	E		131,1°		76		6855,738	156,944				7030,620			157,728
												8,214			SAL141	0,50%	8,255			0,50%	
532	AC	056°	27,7007'	N	006°	04,2169'	E	AC	115,5°	15,6° Port	75		6863,952	148,730				7038,875			149,473
												1,303			SAL141	0,50%	1,309			0,50%	
533	CX IS DB PWR NORNED (approx.)	056°	27,3979'	N	006°	05,3608'	E		115,5°		75		6865,255	147,427				7040,185			148,163
												0,892			SAL141	0,50%	0,896			0,50%	
534	AC	056°	27,1907'	N	006°	06,1437'	E	AC	128,1°	12,5° Stbd	75		6866,147	146,535				7041,081			147,267
												0,300			SAL141	0,50%	0,301			0,50%	
535	AC	056°	27,0911'	N	006°	06,3733'	E	AC	130,0°	2,0° Stbd	75		6866,447	146,235				7041,382			146,966
												11,424			SAL141	0,50%	11,481			0,50%	
536	AC	056°	23,1314'	N	006°	14,8767'	E	AC	120,6°	9,5° Port	74		6877,871	134,811				7052,863			135,485
												0,836			SAL141	0,50%	0,840			0,50%	
537	AC	056°	22,9023'	N	006°	15,5757'	E	AC	101,3°	19,3° Port	74		6878,707	133,975				7053,703			134,645
												1,026			SAL141	0,50%	1,031			0,50%	
538	AC	056°	22,7942'	N	006°	16,5530'	E	AC	084,5°	16,8° Port	74		6879,733	132,949				7054,734			133,614
												0,884			SAL141	0,50%	0,888			0,50%	
539	PX IS DB EUROPIPE II	056°	22,8396'	N	006°	17,4073'	E		084,5°		74		6880,616	132,066				7055,622			132,726
												0,830			SAL141	0,50%	0,834			0,50%	
540	AC	056°	22,8823'	N	006°	18,2093'	E	AC	104,5°	20,0° Stbd	74		6881,446	131,236				7056,456			131,892
												0,932			SAL141	0,50%	0,937			0,50%	
541	AC	056°	22,7562'	N	006°	19,0857'	E	AC	120,4°	15,8° Stbd	74		6882,378	130,304				7057,393			130,955
												0,960			SAL141	0,50%	0,965			0,50%	
542	CT ENTER PLANNED WF Nordsren III	056°	22,4946'	N	006°	19,8905'	E		120,4°		74		6883,338	129,344				7058,358			129,990
												13,995			SAL141	0,50%	14,065			0,50%	
543	CT EXIT PLANNED WF Nordsren III	056°	18,6834'	N	006°	31,6081'	E		120,4°		73		6897,334	115,348				7072,424			115,924
												7,270			SAL141	0,50%	7,307			0,50%	
544	CT ENTER PLANNED WF Nordsren II	056°	16,7036'	N	006°	37,6874'	E		120,4°		72		6904,604	108,078				7079,730			108,618
												2,255			SAL141	0,50%	2,266			0,50%	
545	CX OOS DB TEL Newbiggin-Sondervig No2	056°	16,0896'	N	006°	39,5717'	E		120,4°		72		6906,859	105,823				7081,996			106,352
												3,145			SAL141	0,50%	3,161			0,50%	
546	CX OOS DB TEL Arendal-Westerlands No2	056°	15,2331'	N	006°	42,1991'	E		120,4°		72		6910,004	102,678				7085,157			103,191
												0,268			SAL141	0,50%	0,270			0,50%	
547	AC	056°	15,1601'	N	006°	42,4231'	E	AC	117,7°	2,7° Port	72		6910,272	102,410				7085,426			102,922
												13,346			SAL141	0,50%	13,412			0,50%	
548	CT EXIT PLANNED WF Nordsren II	056°	11,8206'	N	006°	53,8556'	E		117,7°		70		6923,617	89,065				7098,839			89,509
												16,584			SAL141	0,50%	16,667			0,50%	
549	CT ENTER PLANNED WF Nordsren I	056°	07,6707'	N	007°	08,0389'	E		117,7°		69		6940,201	72,481				7115,505			72,843
												3,416			SAL141	0,50%	3,433			0,50%	
550	AC	056°	06,8159'	N	007°	10,9573'	E	AC	103,9°	13,7° Port	69		6943,617	69,065				7118,938			69,410
												1,209			SAL141	0,50%	1,215			0,50%	
551	CX IS DB PWR Nord.Link	056°	06,6591'	N	007°	12,0891'	E		103,9°		69		6944,826	67,856				7120,153			68,195
												1,078			SAL141	0,50%	1,084			0,50%	
552	AC	056°	06,5193'	N	007°	13,0986'	E	AC	118,8°	14,9° Stbd	69		6945,904	66,778				7121,237			67,111
												11,645			SAL141	0,50%	11,703			0,50%	
553	MB EZ DNK/CZ DNK	056°	03,4924'	N	007°	22,9288'	E		118,8°		68		6957,549	55,133				7132,940			55,408

												2,068			SAL141	0,50%	2,078			0,50%	
554	CX OOS DB TEL Newbiggen-Sondervig No1	056°	02,9549'	N	007°	24,6730'	E		118,8°		68		6959,617	53,065				7135,018			53,330
												0,914			SAL141	0,50%	0,919			0,50%	
555	WD 30m	056°	02,7172'	N	007°	25,4442'	E		118,8°		68		6960,531	52,151				7135,937			52,411
												4,206			SAL141	0,50%	4,227			0,50%	
556	**TR SAL141/MDA141**	056°	01,6238'	N	007°	28,9907'	E		118,8°		67		6964,737	47,945				7140,164	1143,658		48,184
												0,761			MDA141	0,50%	0,765			0,50%	
557	AC	056°	01,4260'	N	007°	29,6321'	E	AC	121,5°	2,6° Stbd	67		6965,498	47,184				7140,929			47,419
												2,851			MDA141	0,50%	2,865			0,50%	
558	AC	056°	00,6237'	N	007°	31,9712'	E	AC	109,4°	12,1° Port	67		6968,349	44,333				7143,794			44,554
												1,275			MDA141	0,50%	1,281			0,50%	
559	AC	056°	00,3959'	N	007°	33,1278'	E	AC	087,9°	21,5° Port	67		6969,624	43,058				7145,075			43,273
												0,647			MDA141	0,50%	0,650			0,50%	
560	CX IS DB FOC Havfrue seg 7	056°	00,4085'	N	007°	33,7496'	E		087,9°		67		6970,271	42,411				7145,725			42,623
												0,586			MDA141	0,50%	0,589			0,50%	
561	AC	056°	00,4200'	N	007°	34,3125'	E	AC	088,7°	0,8° Stbd	67		6970,856	41,826				7146,314			42,034
												4,958			MDA141	0,50%	4,983			0,50%	
562	AC	056°	00,4788'	N	007°	39,0799'	E	AC	076,1°	12,6° Port	66		6975,814	36,868				7151,297			37,051
												2,824			MDA141	0,50%	2,838			0,50%	
563	WD 25m	056°	00,8442'	N	007°	41,7169'	E		076,1°		66		6978,638	34,044				7154,135			34,213
												3,050			MDA141	0,50%	3,065			0,50%	
564	MB CZ DNK/TW DNK	056°	01,2388'	N	007°	44,5654'	E		076,1°		66		6981,688	30,994				7157,200			31,148
												2,336			MDA141	0,50%	2,347			0,50%	
565	CT EXIT PLANNED WF Nordsren I	056°	01,5410'	N	007°	46,7470'	E		076,1°		66		6984,024	28,658				7159,547			28,801
												7,143			MDA141	0,50%	7,178			0,50%	
566	AC	056°	02,4652'	N	007°	53,4206'	E	AC	090,1°	14,0° Stbd	65		6991,166	21,516				7166,726			21,622
												1,430			MDA141	0,50%	1,438			0,50%	
567	AC	056°	02,4637'	N	007°	54,7976'	E	AC	111,5°	21,4° Stbd	65		6992,597	20,085				7168,163			20,185
												1,008			MDA141	0,50%	1,013			0,50%	
568	AC	056°	02,2646'	N	007°	55,7005'	E	AC	135,2°	23,7° Stbd	65		6993,605	19,077				7169,176			19,172
												4,513			MDA141	0,50%	4,536			0,50%	
569	WD 20m	056°	00,5384'	N	007°	58,7595'	E		135,2°		65		6998,118	14,564				7173,712			14,636
												3,550			MDA141	0,50%	3,568			0,50%	
570	CX OOS DB FOC TAT 14 seg N (OOS)	055°	59,1805'	N	008°	01,1641'	E		135,2°		64		7001,668	11,014				7177,280			11,068
												5,928			MDA141	0,50%	5,958			0,50%	
571	WD 15m	055°	56,9131'	N	008°	05,1764'	E		135,2°		64		7007,596	5,086				7183,237			5,111
												1,184			MDA141	0,50%	1,190			0,50%	
572	WD 12m	055°	56,4600'	N	008°	05,9776'	E		135,2°		64		7008,780	3,902				7184,428			3,920
												0,991			MDA141	0,50%	0,996			0,50%	
573	WD 10m	055°	56,0811'	N	008°	06,6475'	E		135,2°		64		7009,771	2,911				7185,423			2,925
												0,390			MDA141	0,50%	0,392			0,50%	
574	AC	055°	55,9321'	N	008°	06,9111'	E	AC	114,8°	20,4° Port	64		7010,161	2,521				7185,815			2,533
												1,480			MDA141	0,50%	1,487			0,50%	
575	CT HDD EXIT	055°	55,5974'	N	008°	08,2003'	E	AC	115,3°	0,5° Stbd	63		7011,641	1,041				7187,302			1,046
												0,027			MDA141	0,50%	0,027			0,50%	
576	**TR MDA141/SAL141**	055°	55,5912'	N	008°	08,2236'	E		115,3°		63		7011,667	1,015				7187,329	47,165		1,019
												0,810			SAL141	0,50%	0,814			0,50%	
577	CT ENTER MPA RingkÃ¸bing-Skjern kommune Privat	055°	55,4047'	N	008°	08,9262'	E		115,3°		63		7012,477	0,205				7188,143			0,205
												0,100			SAL141	0,50%	0,100			0,50%	
578	CT ENTER MPA RingkÃ¸bing-Skjern kommune	055°	55,3817'	N	008°	09,0128'	E		115,3°		63		7012,577	0,105				7188,243			0,105
												0,051			SAL141	0,50%	0,051			0,50%	
579	AC	055°	55,3700'	N	008°	09,0570'	E	AC	095,9°	19,4° Port	63		7012,628	0,054				7188,294			0,054
												0,054			SAL141	0,50%	0,054			0,50%	
580	**CABLE ALLOWANCE 50M**	055°	55,3670'	N	008°	09,1085'	E		095,9°		63		7012,682	0,000				7188,348			0,000
												0,000			SAL141	0,00%	0,050			0,00%	
581	**BMH BLAABJERG**	055°	55,3670'	N	008°	09,1085'	E		095,9°		63		7012,682	0,000				7188,398	1,069		0,000

Straight Line Diagram



CABLE SUMMARY					
CABLE	**SAL141**	**MDA141**	**LWP40**	**LW40**	**TOTAL**
SYSTEM	1339,234km	58,329km	3471,792km	2319,043km	**7188,398km**
SPARE					
TOTAL	**1339,234km**	**58,329km**	**3471,792km**	**2319,043km**	**7188,398km**

BODIES SUMMARY

Label	Cable Status	Action Needed	Latitude (WGS 84)			Longitude (WGS 84)			Depth (m)	Cum KP Dist (km)	Cable Type	Xing Angle (deg)
CX TGN ATLANTIC SOUTH XA = 12 (FO)	IS	None	040°	06,8596'	N	074°	01,3286'	W	13	0,949	MDA141	12°
CX DB FOC TAT 14 seg L (OOS) (FO)	IS	None	040°	04,9010'	N	073°	57,8182'	W	18	7,406	MDA141	49°
CX DB FOC Gemini Bermuda (FO)	IS	None	040°	04,8831'	N	073°	57,6971'	W	18	7,581	MDA141	51°
CX DB FOC SEABRAS-1 (approx) (FO)	IS	None	040°	03,9254'	N	073°	47,2819'	W	27	22,670	SAL141	33°
CX DB FOC Gemini Bermuda (FO)	IS	None	040°	03,4535'	N	073°	46,0792'	W	28	24,715	SAL141	31°
CX DB FOC VSNL Atlantic South (FO)	IS	None	039°	44,3666'	N	073°	19,4279'	W	59	81,951	SAL141	56°
CX DB FOC VSNL Atlantic South (FO)	IS	None	039°	40,1751'	N	073°	16,5671'	W	65	91,913	SAL141	51°
CX DB FOC Gemini Bermuda (FO)	IS	None	039°	39,9599'	N	073°	14,7456'	W	67	94,548	SAL141	50°
CX DB FOC MAC 1 seg 1 (FO)	IS	None	038°	49,0354'	N	071°	32,0966'	W	2667	271,234	LW40	84°
CX DB FOC MAC 1 seg 3 (FO)	IS	None	038°	41,6307'	N	071°	05,4665'	W	2950	312,564	LWP40	84°
CX DB FOC VSNL Atlantic North (FO)	IS	None	038°	40,3231'	N	070°	41,0456'	W	3070	348,171	LWP40	60°
CX DB FOC TAT 12/13 seg F/G (FO)	IS	None	038°	41,1743'	N	070°	30,9199'	W	2950	362,940	LWP40	53°
CX PLN TAURUS (FO)	IS	None	038°	34,7665'	N	069°	48,0604'	W	3320	426,929	LW40	00°
CX DB FOC CB-1 (FO)	IS	None	038°	27,1240'	N	069°	08,0995'	W	3543	487,019	LW40	59°
CX DB FOC Apollo North (FO)	IS	None	038°	32,7523'	N	067°	03,0360'	W	4500	671,710	LW40	84°
CX DB FOC Grace Hopper seg 1 (FO)	IS	None	038°	37,7479'	N	066°	54,1052'	W	4500	687,635	LW40	57°
CX DB FOC Yellow (FO)	IS	None	038°	42,5648'	N	066°	45,4842'	W	4528	702,990	LW40	54°
CX DB FOC ATLANTIC CROSSING seg C (FO)	IS	None	038°	58,0599'	N	066°	03,3947'	W	4650	775,698	LW40	62°
CX DB FOC FLAG Atlantic South (FO)	IS	None	039°	10,0868'	N	066°	00,4278'	W	4663	798,888	LW40	83°
CX DB FOC Havfrue seg 1 (FO)	IS	None	039°	23,9697'	N	065°	56,2062'	W	4400	825,809	LW40	55°
CX DB FOC TAT 12 seg E1 (FO)	IS	None	039°	31,5638'	N	065°	52,2722'	W	4352	840,952	LWP40	48°
CX DB FOC Hibernia seg D (FO)	IS	None	040°	34,1323'	N	059°	24,9430'	W	5025	1423,152	LW40	77°
CX DB FOC Havfrue seg 1 (FO)	IS	None	040°	54,9277'	N	056°	59,9993'	W	5100	1631,779	LW40	67°
CX DB FOC Amitie seg 1.1 (FO)	IS	None	041°	49,3487'	N	048°	59,3200'	W	4430	2318,434	LWP40	61°
CX DB FOC Apollo North (FO)	IS	None	045°	32,3500'	N	041°	35,4607'	W	4800	3050,954	LWP40	61°
CX DB FOC FLAG Atlantic North (FO)	IS	None	045°	47,2110'	N	041°	06,3650'	W	4778	3097,883	LWP40	61°
CX DB FOC Apollo North (FO)	IS	None	046°	24,3007'	N	039°	51,8532'	W	4697	3219,216	LWP40	54°
CX DB FOC Hibernia seg A (FO)	IS	None	049°	35,9165'	N	033°	27,1204'	W	4468	3819,089	LWP40	51°
CX Hibernia Express seg 1 XA = 57 (FO)	IS	None	051°	19,1930'	N	028°	29,7715'	W	3147	4227,663	LWP40	57°
CX AEConnect (approx) XA = 57 (FO)	IS	None	051°	22,3985'	N	028°	27,0230'	W	3100	4234,409	LWP40	57°
CX Havfrue seg 1 XA = 54 (FO)	IS	None	051°	55,4336'	N	027°	51,7679'	W	3800	4308,018	LWP40	54°
CX DB FOC IR seg S1 (FO)	IS	None	058°	39,4881'	N	012°	31,8917'	W	1151	5584,393	LWP40	83°
CX DB FOC Havfrue seg 3 (FO)	IS	None	058°	45,9399'	N	009°	43,5794'	W	1600	5747,777	LWP40	52°
CX DB FOC Farice (Scotland) (FO)	IS	None	059°	48,2016'	N	003°	35,6927'	W	1010	6126,075	SAL141	83°
CX DB FOC BT R100 seg 2.03 (FO)	IS	None	059°	36,2142'	N	001°	20,2983'	W	110	6257,075	SAL141	64°
CX DB FOC SHEFA-2 seg 8 (FO)	IS	None	059°	34,8059'	N	001°	12,8843'	W	108	6264,528	SAL141	71°
CX DB FOC ATLANTIC CROSSING SEG A (FO)	IS	None	059°	03,5755'	N	001°	23,2275'	E	94	6424,648	SAL141	52°

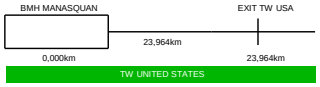
CX DB FOC Havfrue seg 5 (FO)	IS	None	059°	03,9170'	N	002°	02,0257'	E	105	6462,359	SAL141	50°
CX DB FOC SOFC seg 2 (FO)	IS	None	059°	01,1793'	N	002°	23,8750'	E	120	6484,341	SAL141	82°
CX DB FOC Havfrue seg 5 (FO)	IS	None	058°	57,5662'	N	002°	40,7299'	E	130	6502,044	SAL141	28°
CX DB FOC ATLANTIC CROSSING seg A (FO)	IS	None	058°	28,7979'	N	003°	01,9735'	E	140	6561,148	SAL141	62°
CX DB FOC Kalsto-Draupner (FO)	IS	None	058°	25,1612'	N	003°	03,3964'	E	130	6568,396	SAL141	89°
CX DB FOC NO-UK (FO)	IS	None	057°	37,6026'	N	003°	51,4740'	E	100	6669,145	SAL141	66°
CX DB FOC Yme-Ula (BU1-BU2) (FO)	IS	None	057°	28,5518'	N	004°	01,5821'	E	100	6688,740	SAL141	60°
CX DB FOC ATLANTIC CROSSING seg A (FO)	IS	None	056°	57,2134'	N	004°	49,1661'	E	100	6765,191	SAL141	63°
CX DB FOC CANTAT 3 seg F3C (FO)	IS	None	056°	44,2553'	N	005°	15,4588'	E	80	6803,821	SAL141	74°
CX DB FOC DANICE seg 1 (FO)	IS	None	056°	39,4500'	N	005°	39,0358'	E	78	6830,066	SAL141	60°
CX DB FOC Havfrue seg 7 (FO)	IS	None	056°	00,4085'	N	007°	33,7496'	E	67	6970,271	MDA141	60°
CX TAT 14 seg L () XA = 10 (FO)	OOS	RC	040°	06,8323'	N	074°	01,0063'	W	15	1,409	MDA141	10°
CX TAT 14 seg L () XA = 6 (FO)	OOS	RC	040°	06,8280'	N	074°	00,9872'	W	15	1,438	MDA141	06°
CX DB TEL Fishermans Point-New York (FO)	OOS	RC	040°	03,9457'	N	073°	48,4364'	W	26	21,028	SAL141	85°
CX DB TEL Cape Haiten-New York (FO)	OOS	RC	040°	03,1629'	N	073°	44,7338'	W	30	26,790	SAL141	75°
CX DB TEL New York-Havana (FO)	OOS	RC	040°	02,7213'	N	073°	37,5852'	W	36	36,991	SAL141	58°
CX DB TEL New York-Fishermans Point (FO)	OOS	RC	040°	02,6822'	N	073°	37,3594'	W	37	37,320	SAL141	59°
CX DB TEL New York-Fishermans Point (FO)	OOS	RC	039°	39,8086'	N	073°	13,7796'	W	67	95,961	SAL141	42°
CX DB FOC TAT 9 seg F2 () (FO)	OOS	RC	039°	36,7599'	N	073°	06,9912'	W	74	107,341	SAL141	00°
CX DB TEL Fayal-New York (FO)	OOS	RC	039°	33,0790'	N	072°	59,8321'	W	81	119,660	SAL141	20°
CX DB TEL New York-St.Johns No1 (FO)	OOS	RC	039°	30,0352'	N	072°	54,1675'	W	86	129,540	SAL141	36°
CX DB TEL New York-St.Johns No1 (FO)	OOS	None	038°	59,7179'	N	072°	00,6443'	W	2343	225,474	LWP40	15°
CX DB FOC PTAT seg E2 () (FO)	OOS	None	038°	51,3912'	N	071°	38,3860'	W	2600	261,143	LW40	00°
CX DB FOC TAT 11 seg D1 () (FO)	OOS	None	038°	50,7430'	N	071°	36,6553'	W	2618	263,919	LW40	00°
CX DB FOC TAT 8 seg D1 () (FO)	OOS	None	038°	35,4128'	N	069°	50,8591'	W	3300	422,692	LW40	00°
CX DB TEL Fayal-New York (FO)	OOS	None	038°	33,0455'	N	069°	40,6103'	W	3402	438,209	LW40	18°
CX DB COA TAT 7 (FO)	OOS	None	038°	29,6480'	N	069°	25,9117'	W	3480	460,478	LW40	22°
CX DB FOC TAT 11 seg D1 () (FO)	OOS	None	038°	27,1387'	N	069°	08,7631'	W	3541	486,054	LW40	00°
CX DB FOC TAT 11 seg D1 () (FO)	OOS	None	038°	26,6301'	N	068°	45,7691'	W	3800	519,521	LW40	00°
CX DB FOC TAT 11 seg D1 () (FO)	OOS	None	038°	29,4365'	N	067°	09,1190'	W	4500	660,919	LW40	00°
CX DB COA TAT 5 (FO)	OOS	None	038°	44,6560'	N	066°	41,7383'	W	4455	709,657	LW40	83°
CX DB TEL Fayal-New York (FO)	OOS	None	038°	48,7320'	N	066°	11,9284'	W	4584	753,900	LW40	21°
CX DB COA TAT 7 (FO)	OOS	None	038°	54,9849'	N	066°	05,0510'	W	4650	769,525	LW40	56°
CX DB TEL Canso-Far Rockaway No3 (FO)	OOS	None	039°	06,0309'	N	066°	00,2735'	W	4650	791,380	LW40	84°
CX DB COA TAT 6 (FO)	OOS	None	039°	13,8181'	N	066°	00,5699'	W	4500	805,795	LW40	86°
CX DB FOC TAT 8 seg D1 () (FO)	OOS	None	039°	27,5989'	N	065°	54,3271'	W	4389	833,045	LW40	00°
CX DB TEL Fayal-New York (FO)	OOS	None	039°	31,5942'	N	065°	52,2565'	W	4352	841,012	LWP40	57°
CX DB TEL Canso-Far Rockaway No5 (FO)	OOS	None	039°	45,1177'	N	065°	45,2328'	W	4231	867,979	LWP40	65°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	039°	48,8454'	N	065°	41,3992'	W	4201	876,835	LWP40	00°
CX DB TEL Bay Roberts-Hammel (FO)	OOS	None	039°	54,3701'	N	065°	32,8979'	W	4242	892,959	LWP40	06°

CX DB FOC PTAT seg E3 () (FO)	OOS	None	039°	56,7548'	N	065°	27,1498'	W	4272	902,262	LWP40	00°
CX DB TEL Hammel-Bay Roberts No2 (FO)	OOS	None	039°	59,9706'	N	065°	13,6249'	W	4417	922,632	LWP40	12°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	040°	01,4225'	N	065°	03,8187'	W	4477	936,843	LWP40	00°
CX DB COA CANBER (FO)	OOS	None	040°	08,6734'	N	064°	22,5723'	W	4700	997,058	LW40	76°
CX DB TEL Canso-Far Rockaway No5 (FO)	OOS	None	040°	09,1083'	N	064°	20,6402'	W	4700	999,918	LW40	18°
CX DB TEL Canso-Far Rockaway No5 (FO)	OOS	None	040°	13,5177'	N	064°	01,0387'	W	4700	1028,910	LW40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	040°	15,7728'	N	063°	51,0056'	W	4700	1043,738	LW40	00°
CX DB TEL Bermuda-Halifax (FO)	OOS	None	040°	15,8938'	N	063°	50,4669'	W	4700	1044,534	LW40	68°
CX DB TEL Canso-Far Rockaway No5 (FO)	OOS	None	040°	25,2580'	N	062°	58,5770'	W	4700	1120,119	LW40	13°
CX DB TEL Canso-Far Rockaway No3 (FO)	OOS	None	040°	27,0465'	N	062°	39,7315'	W	4726	1146,974	LW40	78°
CX DB TEL Hammel-Bay Roberts No2 (FO)	OOS	None	040°	30,6438'	N	062°	01,8008'	W	4850	1200,989	LW40	15°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	040°	33,1757'	N	060°	22,3429'	W	4969	1341,950	LW40	00°
CX DB FOC TAT 9 seg F3 () (FO)	OOS	None	040°	33,1499'	N	060°	21,5728'	W	4971	1343,039	LW40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	040°	44,1090'	N	058°	22,8500'	W	5100	1512,836	LW40	00°
CX DB COA CANTAT 2 (FO)	OOS	None	040°	57,9192'	N	054°	58,6136'	W	5100	1802,815	LW40	41°
CX DB TEL Fayal-Halifax (FO)	OOS	None	041°	12,0591'	N	053°	15,5771'	W	5061	1949,499	LWP40	44°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	19,4274'	N	051°	44,9854'	W	5001	2076,995	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	19,4764'	N	051°	43,7966'	W	5002	2078,656	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	20,6870'	N	051°	14,4024'	W	5040	2119,726	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	25,9613'	N	050°	42,1677'	W	5083	2165,810	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	30,3789'	N	050°	01,7925'	W	5100	2222,718	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	041°	31,8652'	N	049°	41,5000'	W	4979	2251,187	LWP40	00°
CX DB TEL Canso-Fayal (FO)	OOS	None	041°	41,3716'	N	049°	15,5120'	W	4601	2291,351	LWP40	26°
CX DB TEL Canso-Fayal (FO)	OOS	None	042°	00,4048'	N	048°	22,4393'	W	4167	2373,822	LW40	23°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	042°	46,1435'	N	046°	51,6816'	W	3300	2524,521	LW40	00°
CX DB TEL Brest-Cape Cod (FO)	OOS	None	043°	37,6321'	N	045°	20,8809'	W	3998	2682,287	LWP40	36°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	045°	36,1604'	N	041°	26,1872'	W	4800	3064,932	LWP40	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	046°	36,2702'	N	039°	39,5857'	W	4649	3246,499	LWP40	00°
CX DB TEL Brest-St.Pierre (FO)	OOS	None	048°	05,9650'	N	036°	48,9717'	W	4600	3518,207	LWP40	26°
CX DB COA TAT 2 South (East-West) (FO)	OOS	None	048°	23,0456'	N	036°	07,7425'	W	4600	3578,384	LWP40	66°
CX DB TEL Sennen Cove-Bay Roberts No2 (FO)	OOS	None	048°	32,9066'	N	035°	43,4391'	W	4600	3613,641	LWP40	60°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	048°	35,9634'	N	035°	38,9930'	W	4524	3621,514	LWP40	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	048°	54,9944'	N	035°	11,2102'	W	4300	3670,537	LWP40	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	049°	03,5189'	N	034°	52,4809'	W	4100	3698,635	LWP40	00°
CX DB TEL Sennen Cove-Bay Roberts No1 (FO)	OOS	None	049°	06,6983'	N	034°	43,3729'	W	4474	3711,192	LWP40	26°
CX DB COA TAT 2 North (West-East) (FO)	OOS	None	049°	26,4436'	N	033°	46,5875'	W	4172	3789,181	LWP40	32°
CX DB TEL Porthcurno-Harbour Grace (FO)	OOS	None	049°	41,2695'	N	033°	20,4714'	W	4400	3831,838	LWP40	38°
CX DB TEL St.Johns-Waterville No2 (FO)	OOS	None	050°	22,4664'	N	031°	51,1352'	W	3825	3963,115	LWP40	34°
CX Hearts Content-Valentia No2 XA = 14 (FO)	OOS	None	050°	49,7257'	N	029°	47,0025'	W	3662	4119,026	LWP40	14°
CX Sennen Cove-Bay Roberts No4 XA = 21 (FO)	OOS	None	051°	04,1362'	N	028°	54,0114'	W	3117	4186,743	LWP40	21°

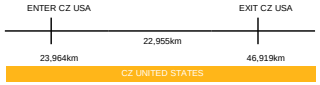
CX St.Johns-Waterville No3 XA = 54 (FO)	OOS	None	051°	20,0415'	N	028°	29,0443'	W	3100	4229,449	LWP40	54°
CX St.Johns-Waterville No1 XA = 44 (FO)	OOS	None	051°	45,6764'	N	028°	01,9476'	W	3400	4286,435	LWP40	44°
CX TAT 10 seg B () XA = 26 (FO)	OOS	None	052°	01,6348'	N	027°	46,7796'	W	3551	4320,859	LWP40	26°
CX DB TEL Hearts Content-Valentia No4 (FO)	OOS	None	052°	21,9516'	N	027°	20,6198'	W	3800	4369,028	LWP40	26°
CX DB TEL Sennen Cove-Bay Roberts No3 (FO)	OOS	None	052°	44,6320'	N	026°	20,6348'	W	3800	4448,824	LW40	23°
CX DB TEL Hearts Content-Valentia No3 (FO)	OOS	None	053°	00,4877'	N	025°	38,3884'	W	3800	4504,611	LW40	33°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	053°	17,3416'	N	024°	53,1966'	W	3800	4563,914	LW40	00°
CX DB TEL St.Johns-Waterville No4 (FO)	OOS	None	053°	17,8281'	N	024°	51,8877'	W	3800	4565,625	LW40	35°
CX DB TEL Hearts Content-Valentia (FO)	OOS	None	053°	32,8065'	N	024°	12,3653'	W	3800	4617,496	LW40	39°
CX DB COA TAT 1 South (West-East) (FO)	OOS	None	054°	43,2121'	N	021°	25,0832'	W	3519	4842,714	LW40	47°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	054°	44,2807'	N	021°	24,2396'	W	3540	4844,914	LW40	00°
CX DB COA TAT 1 North (East-West) (FO)	OOS	None	055°	07,5610'	N	021°	09,8240'	W	3800	4890,771	LW40	64°
CX DB COA CANTAT 1 (FO)	OOS	None	055°	31,3317'	N	020°	52,7116'	W	3800	4938,799	LWP40	48°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	057°	05,5724'	N	018°	02,5711'	W	1716	5187,185	LWP40	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	058°	34,0519'	N	013°	52,8957'	W	1170	5505,232	LWP40	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	None	058°	34,5460'	N	013°	38,1424'	W	1147	5519,574	LWP40	00°
CX DB FOC TAT 14 seg K () (FO)	OOS	None	058°	41,6304'	N	012°	03,1246'	W	1141	5612,491	LWP40	00°
CX DB COA SCOTICE South (FO)	OOS	RC	059°	30,2744'	N	006°	47,2417'	W	1800	5941,211	SAL141	86°
CX DB TEL Fair Isle-Sandwick Bay (FO)	OOS	RC	059°	36,9296'	N	001°	24,0665'	W	111	6253,288	SAL141	79°
CX DB COA Orkney-Shetland (FO)	OOS	RC	059°	35,5844'	N	001°	16,9821'	W	110	6260,408	SAL141	85°
CX DB TEL Sandwick Bay-Sinclair Bay (FO)	OOS	RC	059°	35,4541'	N	001°	16,2957'	W	110	6261,098	SAL141	82°
CX DB TEL Peterhead-Alexandrovsk (FO)	OOS	RC	059°	17,0672'	N	000°	10,6901'	E	80	6350,364	SAL141	82°
CX TAT 14 seg K1 () XA = 54 (FO)	OOS	RC	059°	02,9675'	N	001°	48,0646'	E	94	6448,770	SAL141	54°
CX DB FOC TAT 14 seg K1 () (FO)	OOS	RC	059°	02,9675'	N	001°	48,0646'	E	94	6448,770	SAL141	00°
CX DB FOC TAT 10 seg B () (FO)	OOS	RC	058°	18,2948'	N	003°	07,5233'	E	100	6581,835	SAL141	00°
CX DB FOC TAT 14 seg K1 () (FO)	OOS	RC	058°	18,1367'	N	003°	07,6090'	E	100	6582,140	SAL141	00°
CX DB TEL Newbiggin-Marstrand No1 (FO)	OOS	RC	057°	27,1450'	N	004°	03,1495'	E	100	6691,786	SAL141	67°
CX DB COA Marske-Sandvik (FO)	OOS	RC	056°	52,0223'	N	004°	57,4930'	E	93	6778,647	SAL141	87°
CX DB COA UK-Denmark 2 (FO)	OOS	RC	056°	46,3942'	N	005°	04,7631'	E	86	6791,447	SAL141	55°
CX DB TEL Newbiggin-Arendal (FO)	OOS	RC	056°	44,2475'	N	005°	19,0387'	E	80	6807,473	SAL141	25°
CX DB TEL Newbiggin-Sondervig No2 (FO)	OOS	RC	056°	16,0896'	N	006°	39,5717'	E	72	6906,859	SAL141	26°
CX DB TEL Arendal-Westerlands No2 (FO)	OOS	RC	056°	15,2331'	N	006°	42,1991'	E	72	6910,004	SAL141	59°
CX DB TEL Newbiggen-Sondervig No1 (FO)	OOS	RC	056°	02,9549'	N	007°	24,6730'	E	68	6959,617	SAL141	37°
CX DB FOC TAT 14 seg N () (FO)	OOS	RC	055°	59,1805'	N	008°	01,1641'	E	64	7001,668	MDA141	00°
PX DB Shetland Island Gas Export System (SIRGE) (PX)	IS	None	059°	26,5619'	N	000°	33,5678'	W	120	6304,760	SAL141	89°
PX DB Brent - St. Fergus (FLAGS) (PX)	IS	None	059°	24,2761'	N	000°	24,4081'	W	126	6314,481	SAL141	89°
PX DB Vesterled Pipeline (PX)	IS	None	059°	13,0051'	N	000°	29,7658'	E	80	6370,042	SAL141	82°
PX DB Frigg - St. Fergus 1 (PX)	IS	None	059°	12,9680'	N	000°	29,8667'	E	80	6370,160	SAL141	81°
PX DB Scottish Area Gas Evacuation (SAGE) (PX)	IS	None	059°	04,3228'	N	001°	12,5931'	E	111	6414,037	SAL141	90°

PX DB Devenick - East Brae (PX)	IS	None	059°	03,4643'	N	001°	33,2645'	E	106	6434,496	SAL141	86°
PX DB Bruce - Forties (PX)	IS	None	059°	03,0417'	N	001°	38,6688'	E	101	6439,724	SAL141	89°
PX DB Heimdal - Brae (PX)	IS	None	059°	02,8451'	N	001°	45,0631'	E	92	6445,890	SAL141	50°
PX DB Edvard Grieg - SAGE (Utsira High) (PX)	IS	None	059°	02,8501'	N	001°	45,1864'	E	92	6446,008	SAL141	46°
PX DB STATPIPE Heimdal - Draupner (PX)	IS	None	059°	02,3165'	N	002°	17,1815'	E	120	6477,548	SAL141	79°
PX DB Edvard Grieg - Grane (PX)	IS	None	059°	01,4738'	N	002°	22,2040'	E	120	6482,651	SAL141	83°
PX DB Langeled Transport Project (PX)	IS	None	059°	00,3021'	N	002°	28,8515'	E	127	6489,377	SAL141	87°
PX DB ZEEPIPE IIA (PX)	IS	None	058°	57,6288'	N	002°	40,6248'	E	130	6501,890	SAL141	73°
PX DB Johan Sverdrup - Mongstad (PX)	IS	None	058°	57,4863'	N	002°	40,8641'	E	130	6502,241	SAL141	66°
PX PLN Subsea Hydrogen XA = 61 (PX)	IS	None	058°	55,3304'	N	002°	44,6117'	E	130	6507,624	SAL141	61°
PX DB Johan Sverdrup - Karsto (PX)	IS	None	058°	54,0485'	N	002°	46,2144'	E	130	6510,459	SAL141	74°
PX DB ZEEPIPE IIB (PX)	IS	None	058°	43,3539'	N	002°	55,4873'	E	140	6532,792	SAL141	79°
PX PLN Subsea Hydrogen XA = 47 (PX)	IS	None	058°	35,2933'	N	002°	59,9863'	E	140	6548,718	SAL141	47°
PX DB Sleipner Condensate Pipeline (PX)	IS	None	058°	31,6729'	N	003°	01,5442'	E	140	6555,610	SAL141	90°
PX DB STATPIPE Karsto - Draupner (PX)	IS	None	058°	25,1884'	N	003°	03,3559'	E	130	6568,331	SAL141	89°
PX PLN Subsea Hydrogen XA = 58 (PX)	IS	None	058°	13,5477'	N	003°	10,9090'	E	100	6591,320	SAL141	58°
PX DB EUROPIPE II (PX)	IS	None	056°	22,8396'	N	006°	17,4073'	E	74	6880,616	SAL141	89°
CX DB Shetland HVDC Link (approx) (PWR)	IS	None	059°	39,9983'	N	001°	48,3378'	W	130	6229,715	SAL141	82°
CX DB Johan Sverdrup (PWR)	IS	None	058°	53,4871'	N	002°	46,9160'	E	130	6511,700	SAL141	68°
CX DB Johan Sverdrup (PWR)	IS	None	058°	51,1397'	N	002°	49,8475'	E	132	6516,890	SAL141	67°
CX DB NSL (NorthSeaLink) (PWR)	IS	None	058°	00,2550'	N	003°	25,9894'	E	100	6620,101	SAL141	60°
CX DB Valhall Oil Field Platform Cable (PWR)	IS	None	056°	59,9043'	N	004°	42,8732'	E	100	6756,628	SAL141	89°
CX DB NORNED (approx.) (PWR)	IS	None	056°	27,3979'	N	006°	05,3608'	E	75	6865,255	SAL141	61°
CX DB Nord.Link (PWR)	IS	None	056°	06,6591'	N	007°	12,0891'	E	69	6944,826	SAL141	62°

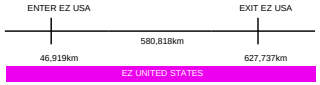
Maritime Boundaries Summary



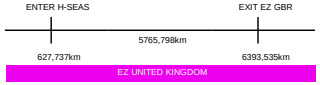
TOTAL LENGTH	BODIES SUMMARY
23,964km	



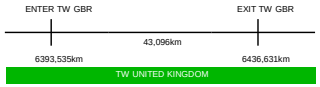
TOTAL LENGTH	BODIES SUMMARY
22,955km	



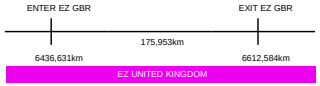
TOTAL LENGTH	BODIES SUMMARY
580,818km	



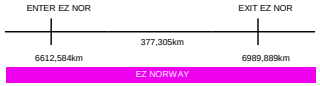
TOTAL LENGTH	BODIES SUMMARY
5765,798km	



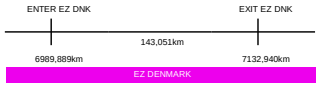
TOTAL LENGTH	BODIES SUMMARY
43,096km	



TOTAL LENGTH	BODIES SUMMARY
175,953km	

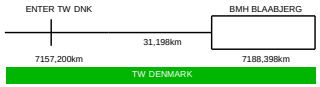


TOTAL LENGTH	BODIES SUMMARY
377,305km	



TOTAL LENGTH	BODIES SUMMARY
143,051km	

TOTAL LENGTH	BODIES SUMMARY



24,260km

TOTAL LENGTH
31,198km

BODIES SUMMARY