



Awel y Môr Offshore Wind Farm

Category 6: Environmental Statement

Volume 4, Annex 2.5: Seafloor and Shallow Geological Results (Offshore ECC) (Part 2)

Date: April 2022

Revision: A

Application Reference: 6.4.2.5.2

Pursuant to: APFP Regulation 5(2)(a)



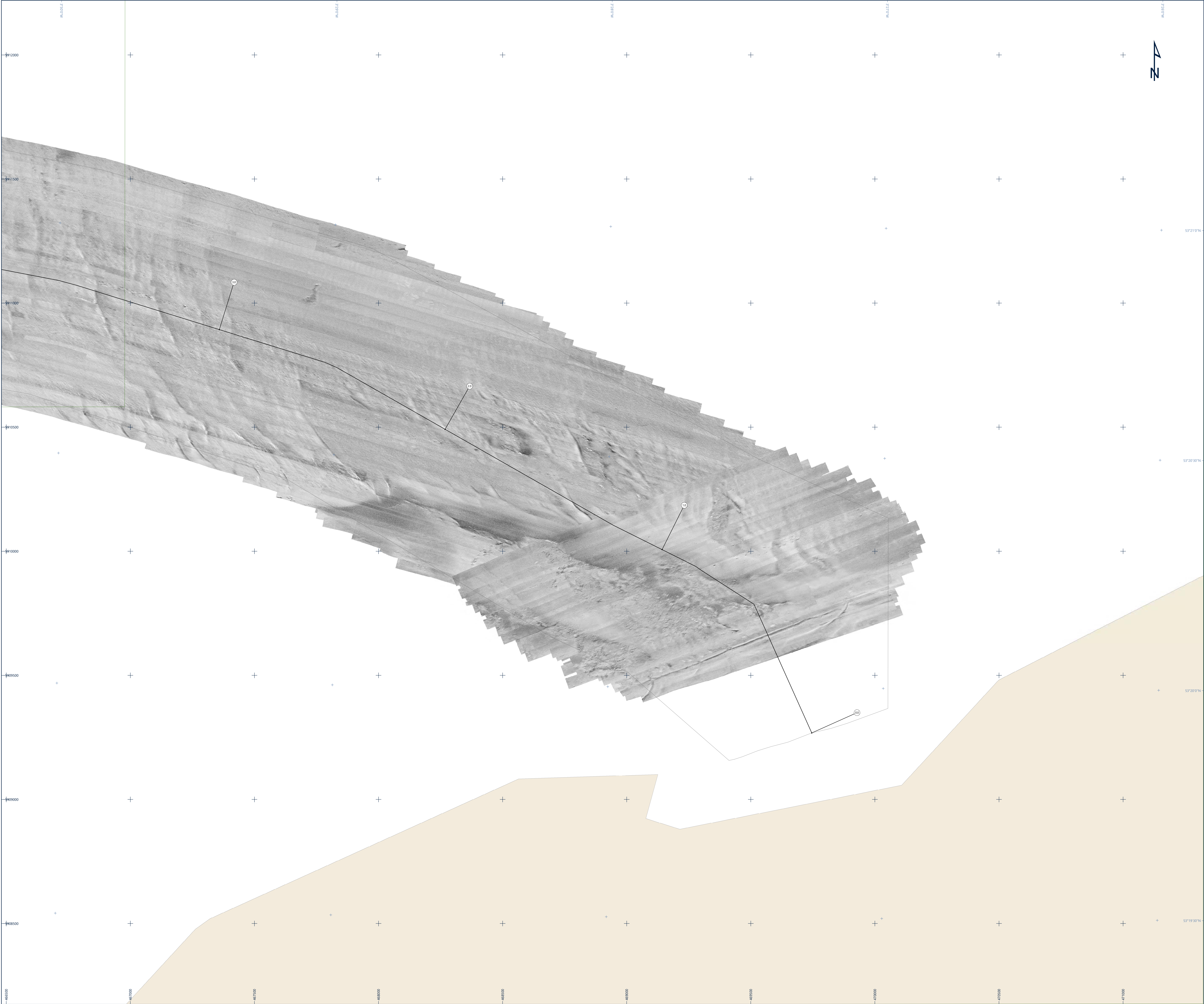
REVISION	DATE	STATUS/ REASON FOR ISSUE	AUTHOR:	CHECKED BY:	APPROVED BY:
A	March 2022	ES	Fugro	RWE	RWE

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Registered office:
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Legend

- UTM Grid
- Geographical Grid
- Route East A Kilometre Post
- Route East B Kilometre Post
- Export Corridor Centre Line
- Export Cable Route Survey Extent
- Wind Farm Extent
- Array Survey Extent
- Chart Extent
- Land

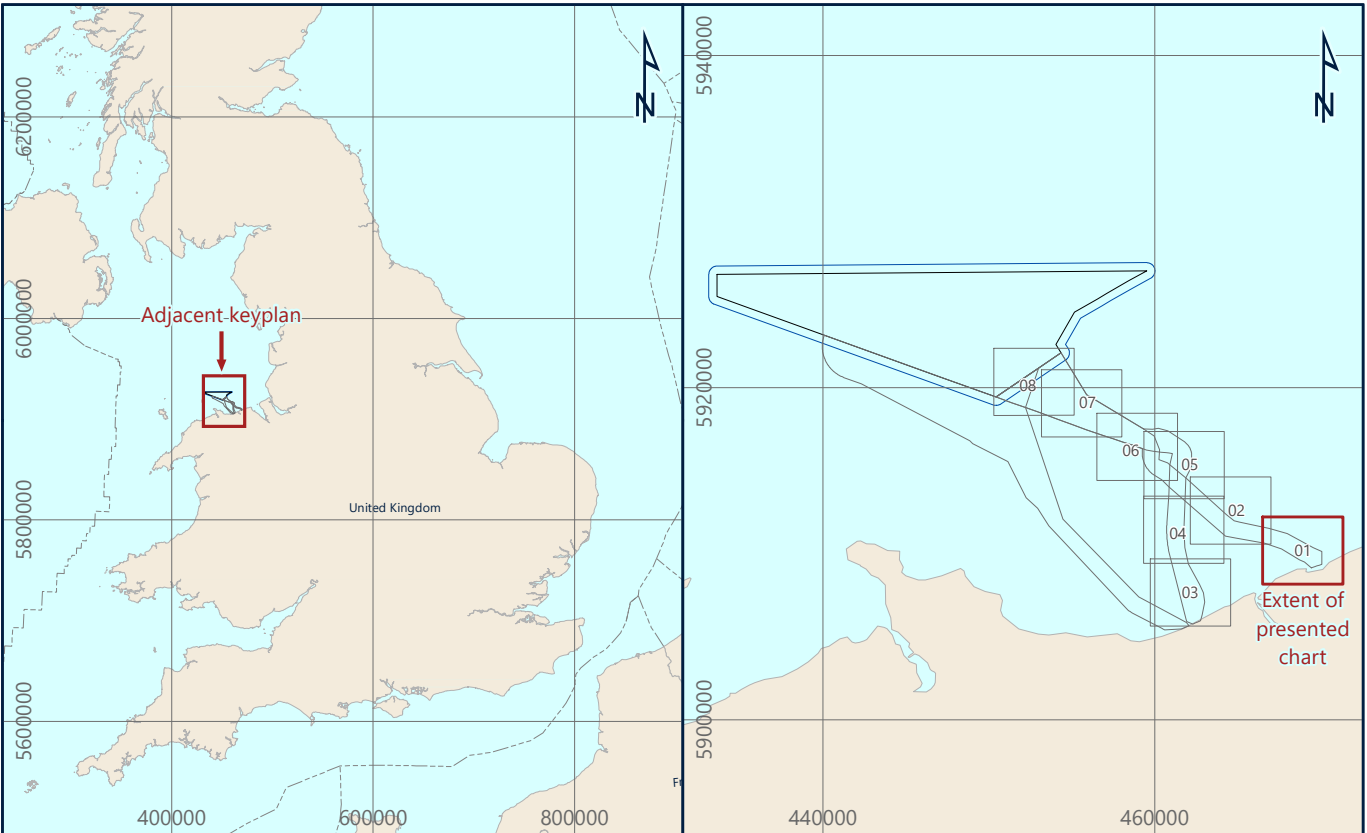
Notes

- 1) Fugro Mercator side scan sonar mosaic created from Edgetech 4205 simultaneous tri-frequency (230 / 540 / 850 kHz), processed with a 0.1 m cell size.
- 2) Fugro Seabeck and Fugro Valkyrie side scan sonar mosaic created from Edgetech 4200 simultaneous dual-frequency (300 / 600 kHz), processed with a 0.1 m cell size.

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Geodetic Parameters

Geodetic datum	World Geodetic System 1984
Ellipsoid	WGS84
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298.257222563
Projection	WGS84 / UTM Zone 30N (EPSG: 32630)
Central Meridian (CM)	03°00'00" W
Latitude of Origin	07°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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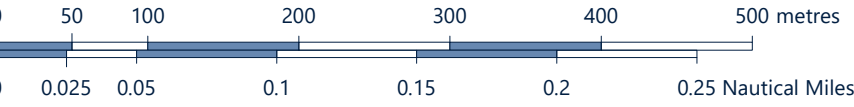
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Tel: +44 23 9220 5500

FUGRO

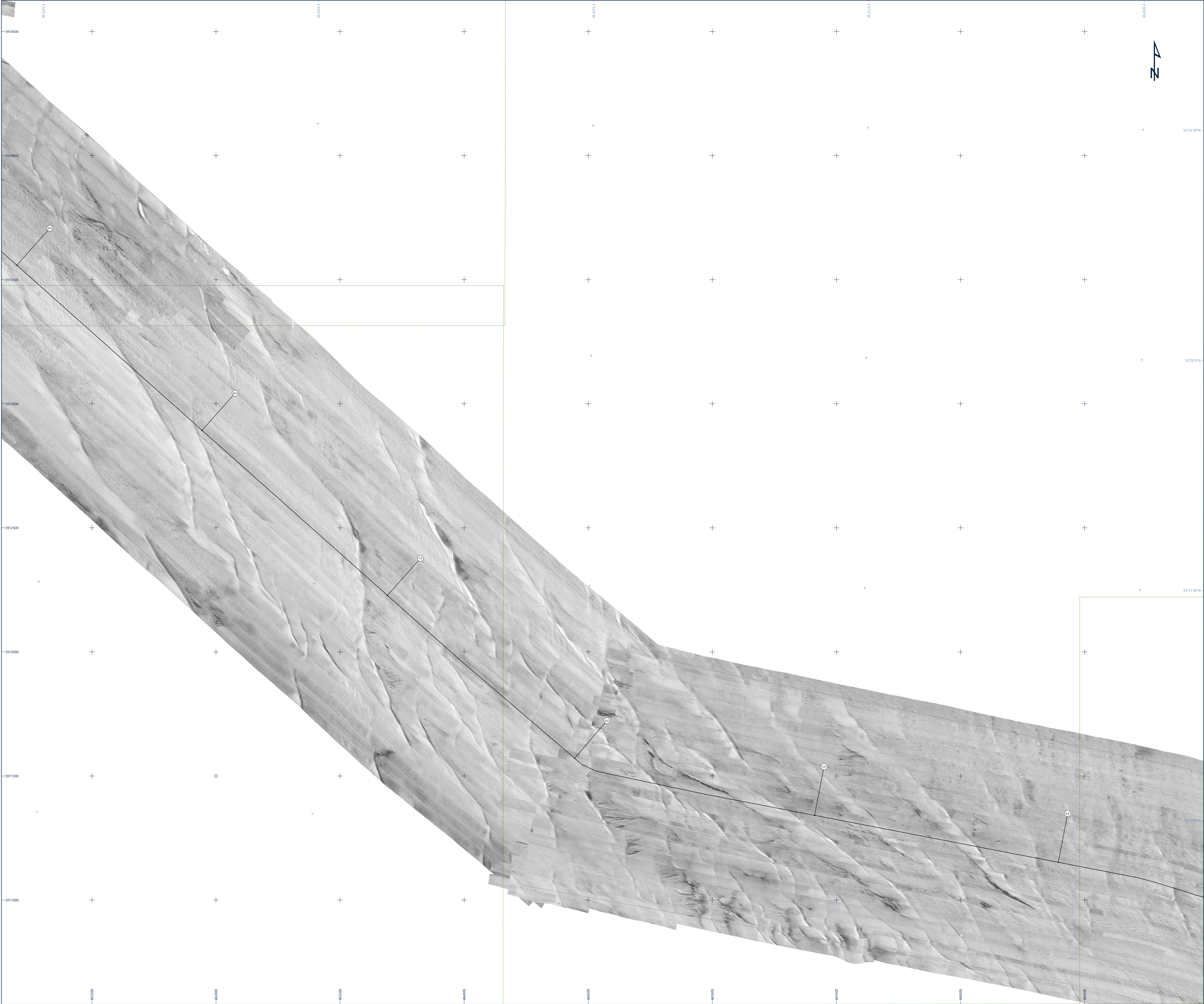
SIDE SCAN SONAR MOSAIC
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA

Scale 1 : 5,000 at original A0 page size



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	25 November 2020	Draft Issue - Revision 1	OOT	DS	SB	BPT
02	18 January 2021	Final Issue - Revision 2	OOT	DS	SB	BPT
03	19 February 2021	Final Reissue - Revision 3	OOT	JL	DS	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator Fugro Seabeck Fugro Valkyrie	10 June to 11 August 2020 17 July to 11 August 2020 16 July to 30 September 2020
File Name	Chart No.	
200655_EastAB_SideScanSonarMosaic_01	01 of 08	



Legend

- UTM Grid
- Geographical Grid
- Route East A Kilometre Post
- Route East B Kilometre Post
- Export Corridor Centre Line
- Export Cable Route Survey Extent
- Wind Farm Extent
- Array Survey Extent
- Chart Extent
- Land

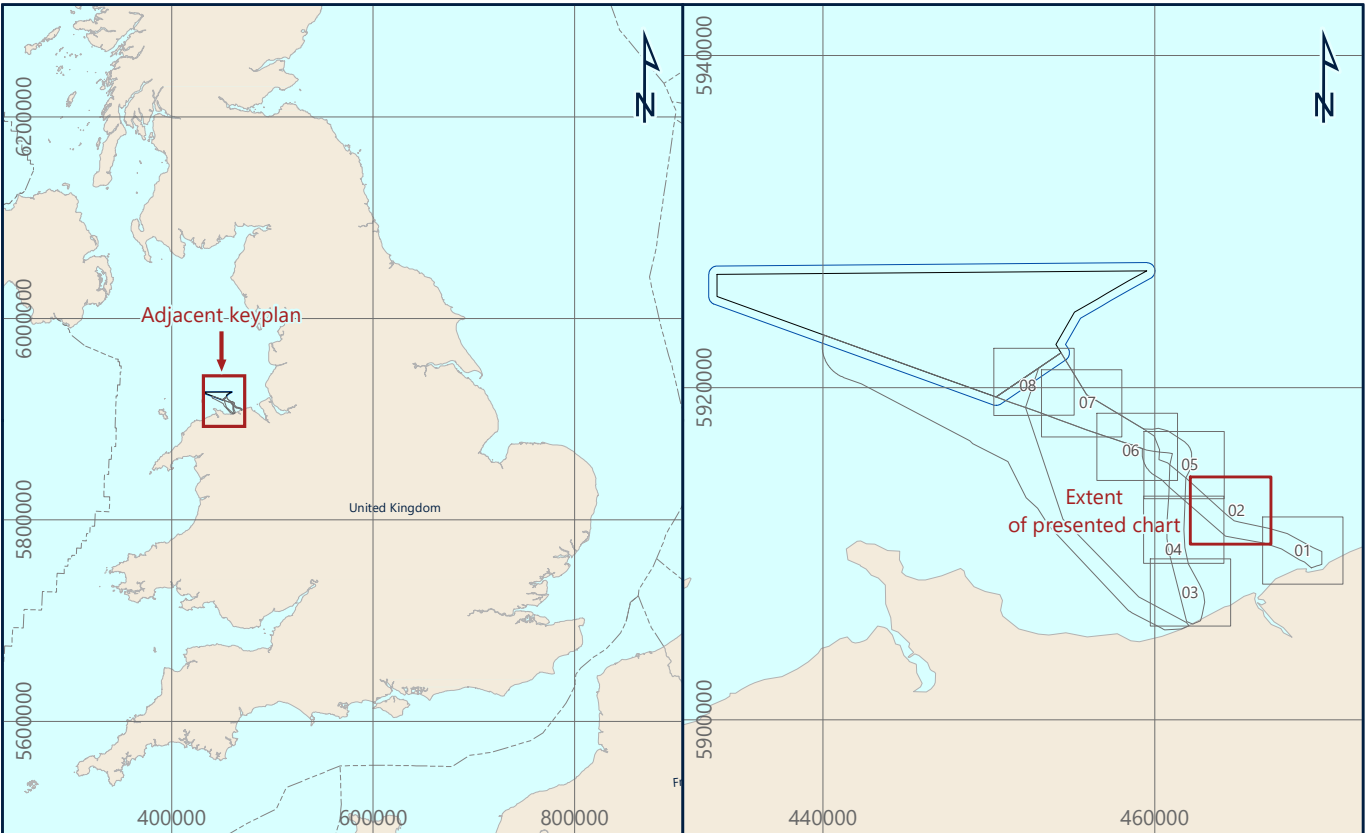
Notes

- 1) Fugro Mercator side scan sonar mosaic created from Edgetech 4205 simultaneous tri-frequency (230 / 540 / 850 kHz), processed with a 0.1 m cell size.
- 2) Fugro Seabeck and Fugro Valkyrie side scan sonar mosaic created from Edgetech 4200 simultaneous dual-frequency (300 / 600 kHz), processed with a 0.1 m cell size.

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False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



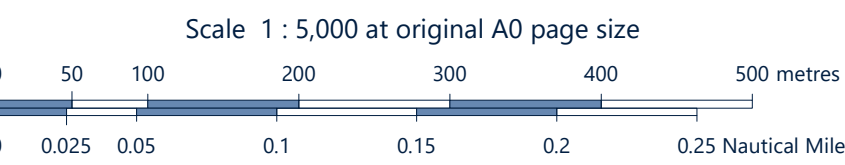
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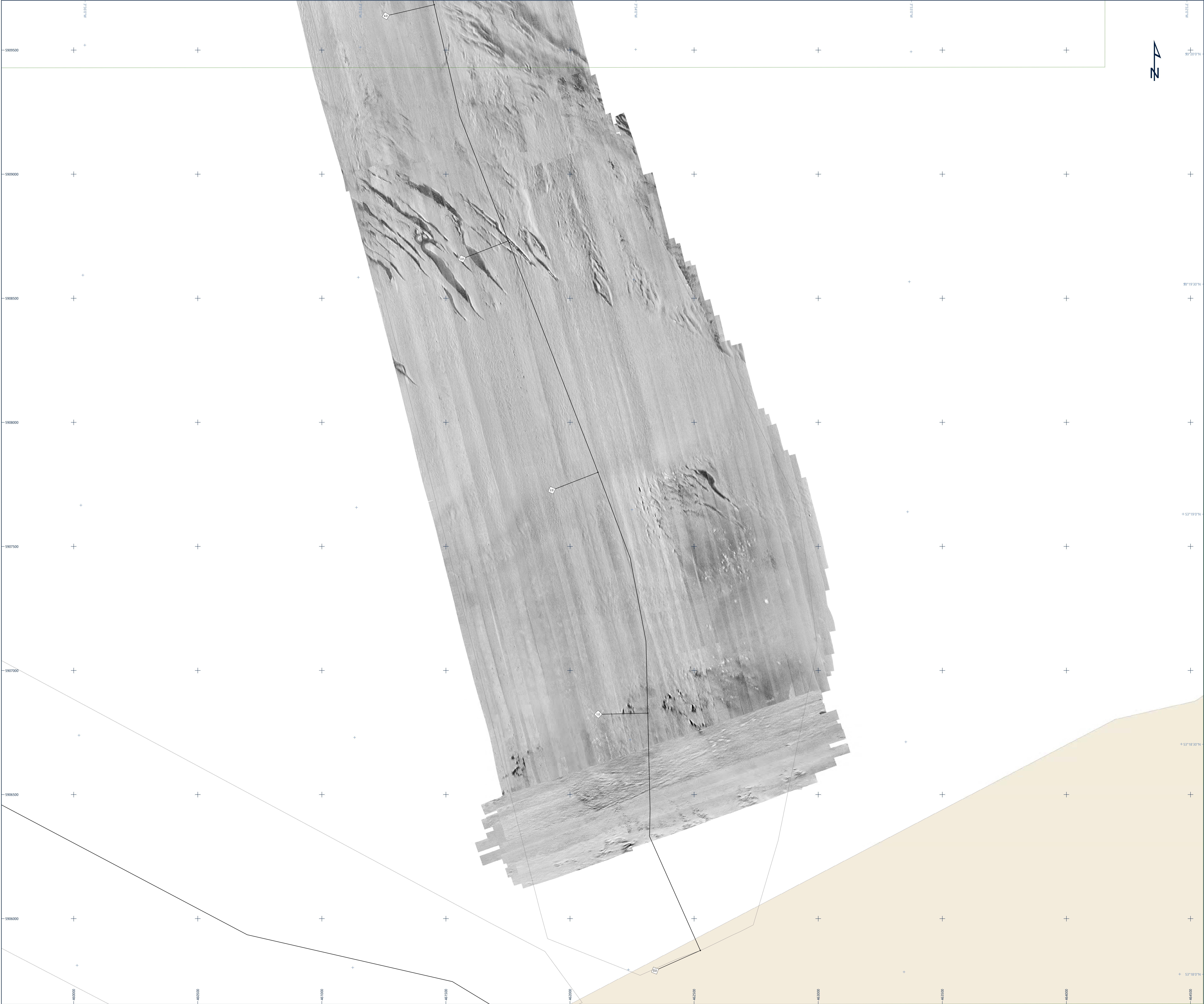
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SIDE SCAN SONAR MOSAIC
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



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Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator Fugro Seabeck Fugro Valkyrie	10 June to 11 August 2020 17 July to 11 August 2020 16 July to 30 September 2020
File Name		Chart No.
200655_EstAB_SideScanSonarMosaic_02		02 of 08



Legend

- UTM Grid
- Geographical Grid
- Route East A Kilometre Post
- Route East B Kilometre Post
- Export Corridor Centre Line
- Export Cable Route Survey Extent
- Wind Farm Extent
- Array Survey Extent
- Chart Extent
- Land

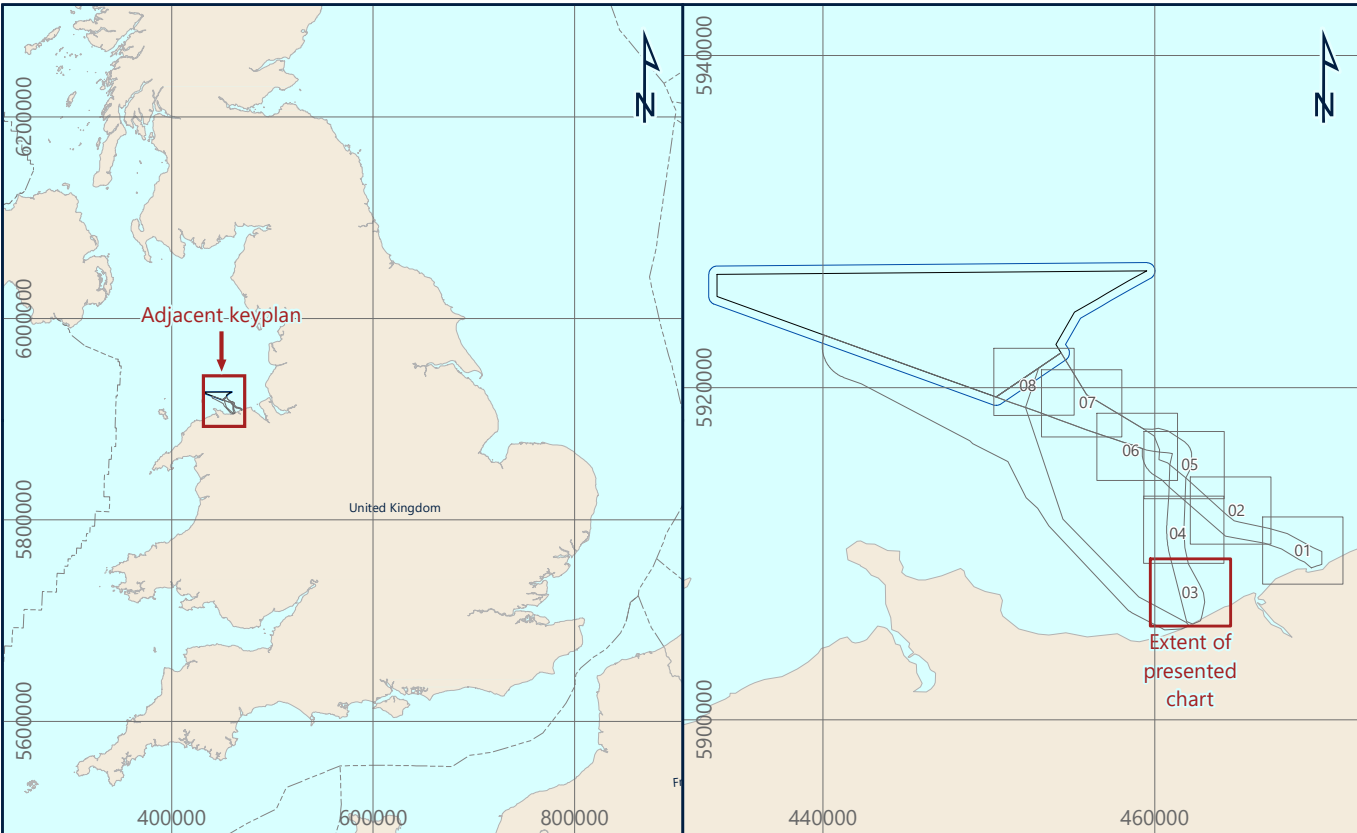
Notes

- 1) Fugro Mercator side scan sonar mosaic created from Edgetech 4205 simultaneous tri-frequency (230 / 540 / 850 kHz), processed with a 0.1 m cell size.
- 2) Fugro Seabeck and Fugro Valkyrie side scan sonar mosaic created from Edgetech 4200 simultaneous dual-frequency (300 / 600 kHz), processed with a 0.1 m cell size.

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Geodetic Parameters

Geodetic datum	World Geodetic System 1984
Ellipsoid	WGS84
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N (EPSG: 32630)
Central Meridian (CM)	03°00'00" W
Latitude of Origin	07°00'00" N
Fake Easting	500,000 mE
Fake Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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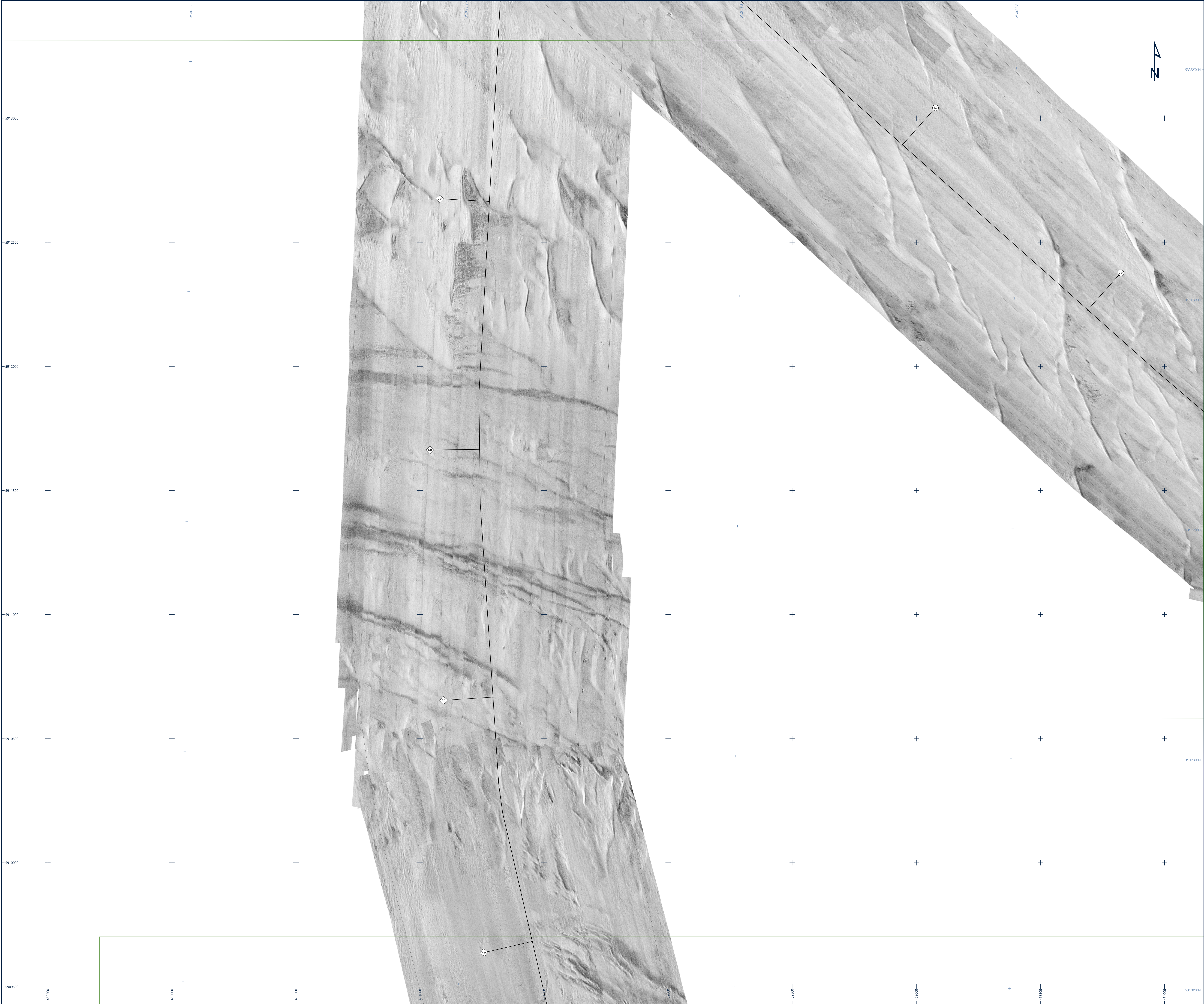
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SIDE SCAN SONAR MOSAIC
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA

Scale 1 : 5,000 at original A0 page size
0 50 100 200 300 400 500 metres
0 0.025 0.05 0.1 0.15 0.2 0.25 Nautical Miles

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-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator Fugro Seabeck Fugro Valkyrie	10 June to 11 August 2020 17 July to 11 August 2020 16 July to 30 September 2020
File Name	Chart No.	
200655_EstAB_SideScanSonarMosaic_03	03 of 08	



Legend

- UTM Grid
- Geographical Grid
- Route East A Kilometre Post
- Route East B Kilometre Post
- Export Corridor Centre Line
- Export Cable Route Survey Extent
- Wind Farm Extent
- Array Survey Extent
- Chart Extent
- Land

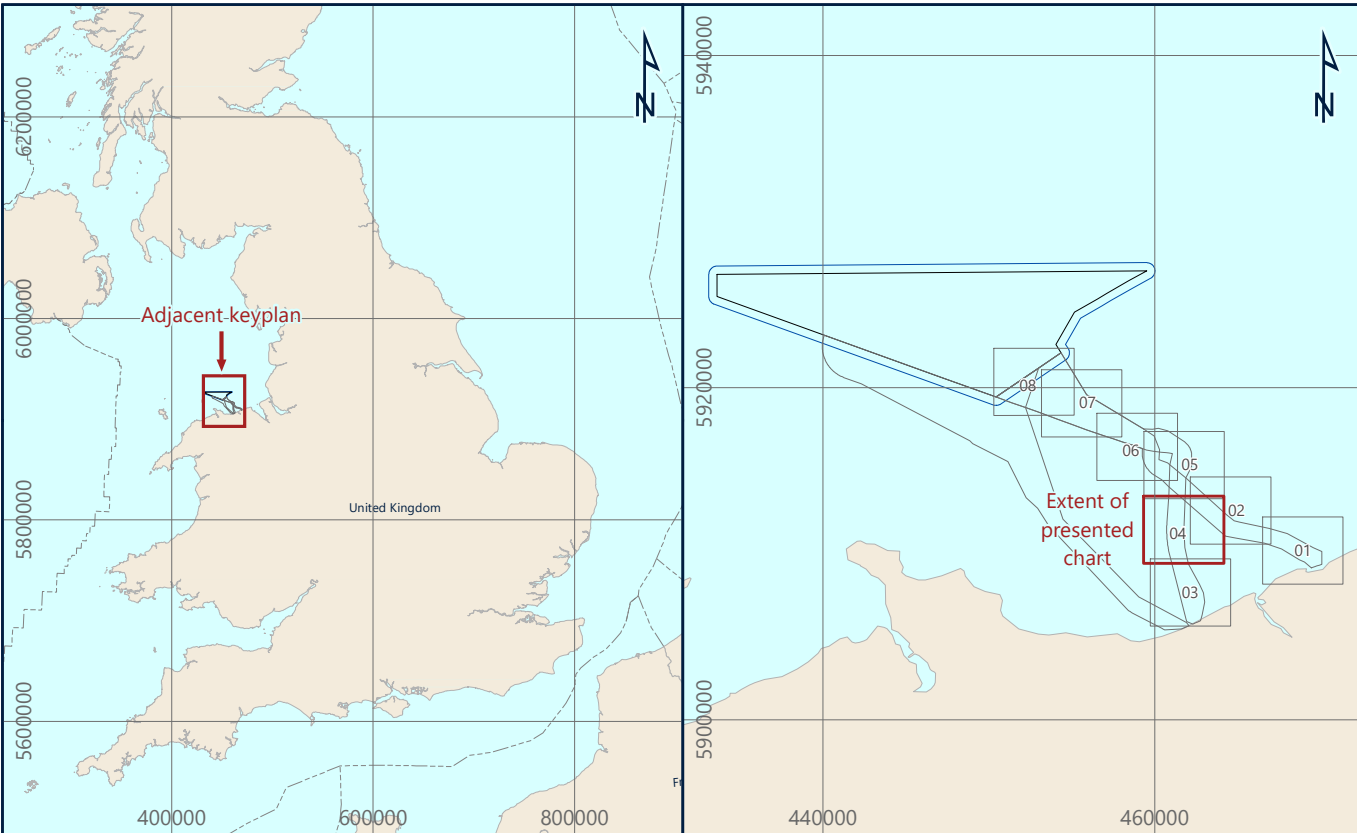
Notes

- 1) Fugro Mercator side scan sonar mosaic created from Edgetech 4205 simultaneous bi-frequency (230 / 540 / 850 kHz), processed with a 0.1 m cell size.
- 2) Fugro Seabeck and Fugro Valkyrie side scan sonar mosaic created from Edgetech 4200 simultaneous dual-frequency (300 / 600 kHz), processed with a 0.1 m cell size.

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Latitude of Origin	07°00'00" N
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False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



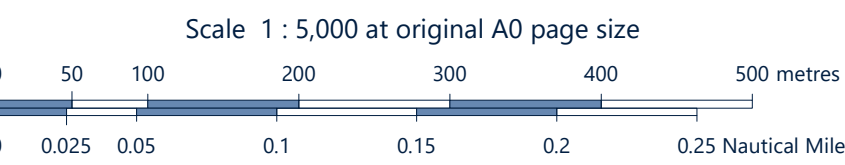
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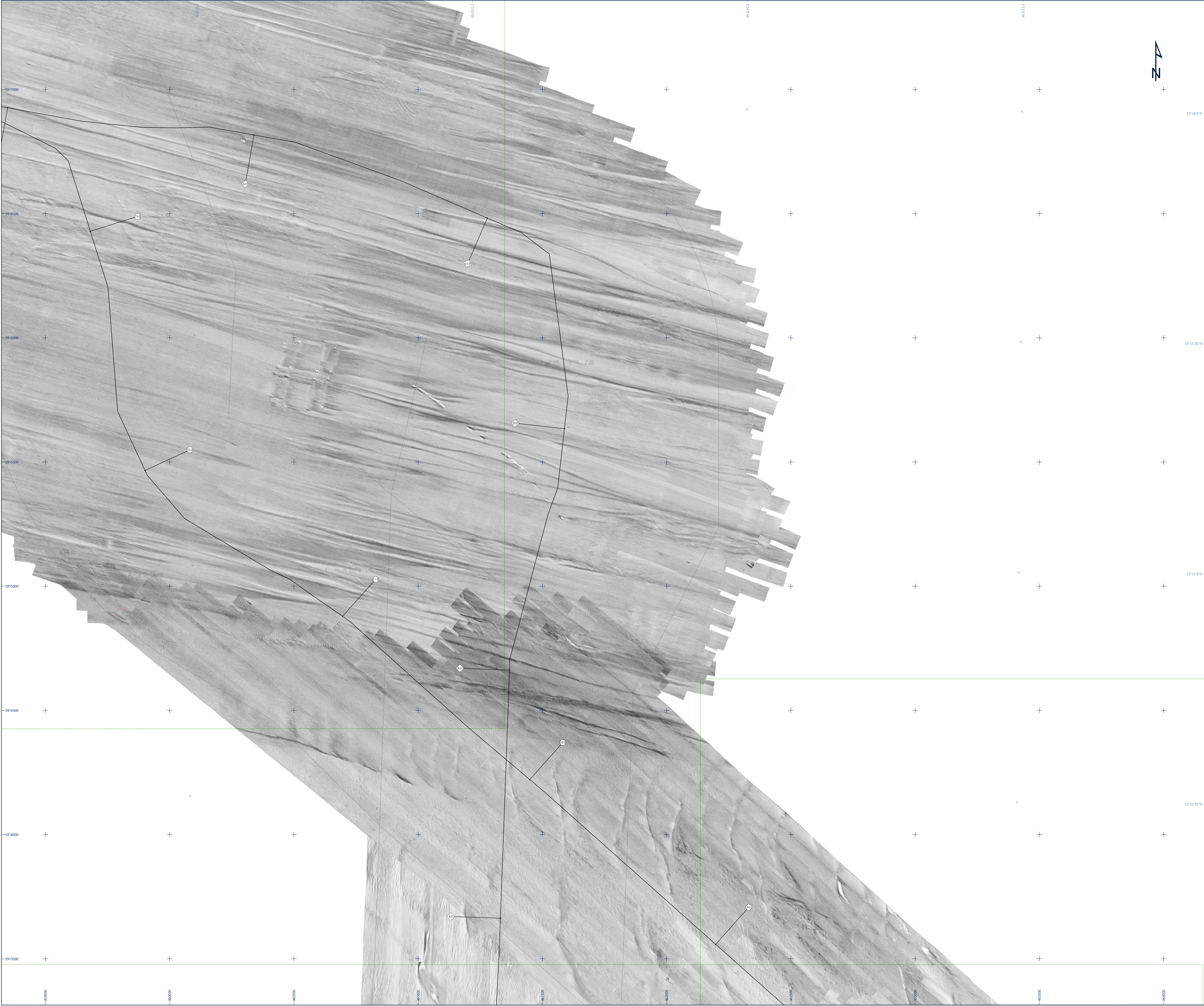
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AWEL Y MÔR OFFSHORE WIND FARM
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File Name	Chart No.	
200655_EastAB_SideScanSonarMosaic_04	04 of 08	



Legend

- UTM Grid
- Geographical Grid
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- Route East B Kilometre Post
- Export Corridor Centre Line
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- Wind Farm Extent
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- Land

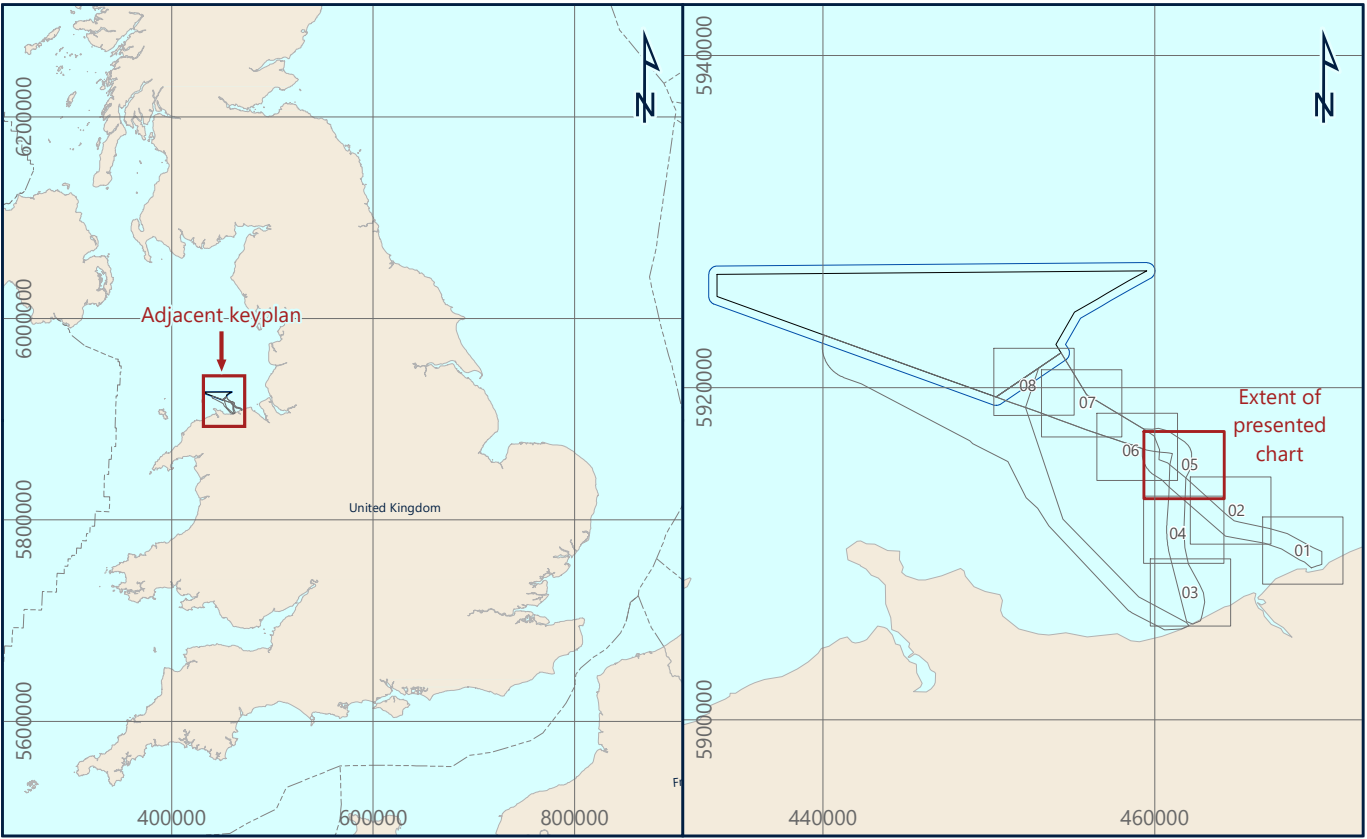
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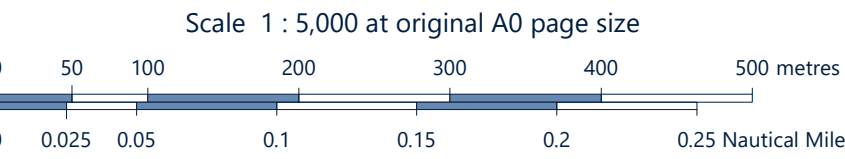
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Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mecator Fugro Seeker Fugro Valkyrie	10 June to 11 August 2020 17 July to 11 August 2020 16 July to 30 September 2020
File Name	Chart No.	
200655_EstAB_SideScanSonarMosaic_05	05 of 08	



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