



Awel y Môr Offshore Wind Farm

Category 6: Environmental Statement

Volume 4, Annex 2.4: Seafloor and Shallow Geological Results (Array) (Part 1)

Date: April 2022

Revision: A

Application Reference: 6.4.2.4.1

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



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

www.awelymor.cymru

RWE Renewables UK
Swindon Limited

Windmill Hill Business Park
Whitehill Way
Swindon
Wiltshire SN5 6PB
T +44 (0)8456 720 090
www.rwe.com

Registered office:
RWE Renewables UK
Swindon Limited Windmill
Hill Business Park Whitehill
Way
Swindon



Fugro – WPM1 Main Array Area – Seafloor and Shallow Geological Results Report

Geophysical Survey 2020, Awel y Môr Offshore Wind Farm | UK, Irish Sea

003616043 04 | 4 February 2021

Final

Awel y Môr Offshore Windfarm Ltd

Document Control

Document Information

Project Title	Awel y Môr Offshore Windfarm Ltd Geophysical Survey 2020
Document Title	Fugro – WPM1 Main Array Area – Seafloor and Shallow Geological Results Report
Fugro Project No.	200655
Client Document No.	003616043
Fugro Document No.	200655-R-013
Issue Number	04
Issue Status	Final

Client Information

Client	Awel y Môr Offshore Windfarm Ltd
Client Address	Trigonos Bldg, Windmill Hill Business Park, Whitehill Way, Swindon, SN5 6PB, United Kingdom
Client Contact	Mark Osola
Client Document No.	003616043-04

Revision History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
01	7 October 2020	Complete	First Issue	BT	JS	SL
02	3 December 2020	Final	Issue after comments	BT	JS	SL
03	11 January 2021	Final	Issue after comments	BT	JS	SL
04	4 February 2021	Final	Issue after comments	BT	JS	SL

Project Team

Initials	Name	Role
JDM	Jean Denis Minet	Party Chief
RT	Ryan Taylor	
SL	S. Litchfield	Project Manager
JS	J. Stirling	Reporting Coordinator
BT	B. Tokeley	Project Geophysicist
DB	D. Baker	Project Hydrographic Surveyor



FUGRO
Fugro GB Marine Limited
Victory House,
Trafalgar Wharf
Portchester
Hants,
PO6 4PX

Awel y Môr Offshore Windfarm Ltd/Mark Osola

Trigonis Bldg,
Windmill Hill Business Park,
Whitehill Way
Swindon,
SN5 6PB,
UK
4 February 2021

Dear Sir/Madam,

We have the pleasure of submitting the 'Fugro – WPM1 Main Array Area – Seafloor and Shallow Geological Results Report' for the Awel y Môr Offshore Windfarm Geophysical Survey 2020.

This report presents the results of the surveys conducted in the Awel y Môr offshore windfarm array area.

We hope that you find this report to your satisfaction; should you have any queries, please do not hesitate to contact us.

Yours faithfully,

Joanne Stirling

Joanne Stirling

Geophysical Reporting Coordinator



Executive Summary

This report provides information relating to the results found onboard the survey vessel Fugro Mercator working on the project and during post-survey processing.

Awel y Môr Offshore Windfarm Ltd contracted Fugro to undertake a geophysical and ultra-high resolution seismic (UHRS) survey of the Awel Y Môr Offshore windfarm, located 10.6 km off the north coast of Wales, located directly to the west of the existing Gwynt y Môr Offshore Wind Farm. The survey comprised the collection of multibeam bathymetry, side scan sonar, sub-bottom profiler data and UHRS data.

The site is located in the Irish Sea, 10.6 km off the north coast of Wales, the array site is in water depths between 20 m and 40 m Lowest Astronomical Tide (LAT) and covers an area of approximately 136 km².

Survey lines were run using a line plan approved by the client that amounted to approximately 2157.44-line km. Geophysical data and UHRS data were collected along approximately 202 planned survey lines.

The main findings arising from the geophysical survey data were:

- Across the Awel y Môr main array water depths ranged from 15.2 to 41.9 m below LAT;
- Seabed sediments within the main array consist of mostly sand with varying proportions of gravel;
- The east of the site has been characterised as sand, with multiple areas of sand waves;
- The west of the site has been characterised as sandy gravel, in line with the preliminary grab sample results;
- Seabed mobility was inferred from multibeam bathymetry to vary between 15 and 365 m per year;
- A total of 81 side scan sonar contacts ≥ 2 m were identified;
- A total of 1245 magnetic anomalies ≥ 5 nT peak-to-peak were identified;
- A total of 4802 buried contacts were identified;
- Four charted wrecks were observed on all datasets;
- The East-West Interconnector cable was identified running east to west along the southern edge of the main array survey area, and was identified on all datasets;
- Sub-bottom profiler interpretation identified four main Quaternary units.

Document Arrangement

Fugro - Mobilisation and Calibration Report - Fugro Mercator
Fugro - Mobilisation and Calibration Report – Valkyrie
Fugro - Mobilisation and Calibration Report - Fugro Seeker
Fugro - WPM1 & WPM2 Array Area & ECR (Offshore) Operations/Acquisition Report - Fugro Mercator
Fugro - WPM3 Export Cable Route (Nearshore) Operations/Acquisition Report – Valkyrie
Fugro - WPM3 Export Cable Route (Nearshore) Acquisition/Operations Report - Fugro Seeker
Fugro - WPM1& WPM2 Array and ECR (Offshore) Processing Report - Fugro Mercator
Fugro - WPM3 Processing Report – Valkyrie
Fugro - WPM3 Processing Report - Fugro Seeker
Fugro - WPM1 Main Array Area – Seafloor and Shallow Geological Results Report
Fugro – WPM2 & WPM3 ECR East A & B – Seafloor and Shallow Geological Results Report
Fugro – WPM2 & WPM3 ECR West C – Seafloor and Shallow Geological Results Report
Fugro - WPM1 Main Array - UHRS Interpretation report - Fugro Mercator

Contents

1.	Introduction	1
1.1	Survey Aims and Overview	1
1.1.1	Survey Aims	1
1.1.2	Location	1
1.1.3	Survey Overview	2
1.2	Geodetic Parameters	4
1.3	Vertical Datum	4
2.	Mobilisation and Operations	5
2.1	Mobilisations	5
2.2	Operations, Acquisition and Processing	5
3.	Document References	6
4.	Results	7
4.1	Bathymetry	7
4.2	Seabed Characterisation	10
4.2.1	Seabed Sediments	10
4.2.2	Seafloor Morphology	11
4.2.3	Seabed Features	15
4.3	Contacts	17
4.3.1	Side scan Sonar Contacts	17
4.3.2	Magnetic Anomalies	18
4.3.3	Buried Contacts	20
4.3.4	Contact Correlation	20
4.3.5	Potential Archaeology	21
4.4	Sub-Seabed Interpretation	22
4.4.1	Geological Overview	23
4.4.2	Geological Interpretation	25
4.5	Environmental Features	36
5.	Summary of Key Findings	38
6.	Data Deliverables	39
7.	Quality, Health, Safety and Environment	45
7.1	Quality Management	45
7.2	Health, Safety and Environment	45

Appendices

Appendix A Guidelines on Use of Report

Appendix B Contact Listing - SSS

Appendix C Contact Listing – Magnetometer Anomalies

Appendix D Charts – Colour Shaded Bathymetry North Ups

Appendix E Charts – Seabed Characterisation

Appendix F Charts – SSS Mosaics

Appendix G Charts – R01 Holocene Sediment Isochore

Appendix H Charts – R03 Western Irish Sea Upper Sediment Isochore

Appendix I Charts – R04 Western Irish Sea Lower Sediment Isochore (SBP)

Appendix J Charts - R04 Western Irish Sea Lower Sediment Isochore (UHRS)

Appendix K Charts - R04 Western Irish Sea Lower Sediment Isochore (Combined SBP and UHRS)

Figures in the Main Text

Figure 1.1: Awel y Môr survey area	2
Figure 4.1: Bathymetry overview	7
Figure 4.2: Overview of the seabed gradient within the Main Array site	8
Figure 4.3: Bathymetry data indicating mostly featureless seabed.	9
Figure 4.4: Bathymetry data indicating migrating sand waves	10
Figure 4.5: Side Scan Sonar example of the seafloor sediments interpretation	11
Figure 4.6: MBES example of the sand waves and overlying megaripples in the north of the ECR East A and B	12
Figure 4.7: Seafloor morphology overview, showing sand wave migration areas	13
Figure 4.8: MBES data example showing interpreted scour around the wreck of the SS Albanian	14
Figure 4.9: MBES data example showing interpreted bedform-related scour	15
Figure 4.10: MBES data example of Gwynt y Môr turbine G01N	16
Figure 4.11: SSS data example showing the East-West Interconnector cable	17
Figure 4.12: SSS contacts identified within survey area	18
Figure 4.13: MAG residual example showing the East West Interconnector power cable	19
Figure 4.14: MAG analytical signal and SSS data example showing the wreck of the SS Dublin	20
Figure 4.15: SSS example showing an un-named wreck* identified within survey area	22
Figure 4.16: Annotated SBP Line GM022, Showing Interpreted Units	26
Figure 4.17: Annotated SBP Line GM022, showing vertical striping	27
Figure 4.18: Holocene unit thickness (R01)	28
Figure 4.19: Extent of Channel Infill Interpretation	29
Figure 4.20: Western Irish Sea Upper unit thickness (R03)	30
Figure 4.21: Western Irish Sea Upper unit depth below seabed (R03)	31
Figure 4.22: Western Irish Sea Lower unit thickness (R04)	32
Figure 4.23: Western Irish Sea Lower unit depth below seabed (R04)	33

Figure 4.24: SBP and UHRS data example showing the correlation between the top UHRS horizon and the R04 WIS Lower from SBP	34
Figure 4.25: Western Irish Sea Lower unit thickness (R04 – UHRS)	34
Figure 4.26: Western Irish Sea Lower unit depth below seabed (R04 – UHRS)	35
Figure 4.27: SBP and UHRS data example showing a difference in the R04 interpretation between the two datasets	36
Figure 4.28: Difference grid between the SBP and UHRS interpretations of R04 WIS Lower base	36

Tables in the Main Text

Table 1.1: Survey Requirements Overview	2
Table 1.2: Project Geodetic and Projection Parameters	4
Table 4.1: Bedform classification	11
Table 4.2: Inferred Sand Wave Migration Rates from MBES Data	13
Table 4.3: Details of the Wrecks Observed within the Array Survey Area	21
Table 4.4: Summary of the Interpreted SBP and UHRS Geological Units	25
Table 6.1: Charts and drawings included in the report	39
Table 6.2: Deliverables issued on HDD	43

Abbreviations

BGS	British Geological Survey
BSB	Below seabed
COG	Centre of gravity
COSHH	Control of substances hazardous to health
COVID	Coronavirus disease
CPP	Construction Phase Plan
CRP	Common reference point
DCO	Development consent order
DGPS	Differential global positioning system
DTM	Digital terrain model
ECR	Export cable route
EIA	Environmental impact assessment
EPSCG	European Petroleum Survey Group
ERP	Emergency response plan
EVT	Equipment verification test
FMGT	Fledermaus Geocoder Toolbox
GNSS	Global navigation satellite system
HOC	Hazard observation card
HSSE/HSE	Health safety (security) environment

IAC	Inter Array Cable
IHO	International Hydrographic Organization
IMU	Inertial measurement unit
ISO	International Standards Organisation
ka	Kilo annum
KP	Kilometre post
Kts	Knots
LAT	Lowest astronomical tide
MBES	Multibeam echosounder
MRU	Motion reference unit
OCP	Offshore converter platform
OHSAS	Occupational Health and Safety Assessment Series
PAMS	Passive acoustic monitoring system
PPP	Precise point positioning
QA	Quality assurance
QC	Quality control
RTK	Real time kinematic
SBP	Sub-bottom profiler
SSS	Side scan sonar
SVP	Sound velocity probe
SVS	Sound velocity sensor
THU	Total horizontal uncertainty
TP	Tow point
TVU	Total vertical uncertainty
UHRS	Ultra-high resolution seismic
UKHO	United Kingdom Hydrographic Office
USBL	Ultra-Short Baseline
UTM	Universal Transverse Mercator
VHF	Very high frequency
VORF	Vertical Offshore Reference Frame
VRF	Vessel reference frame
WGS84	World Geodetic System 1984

1. Introduction

Awel y Môr Offshore Wind Farm (Awel y Môr) is an extension to the Gwynt y Môr Offshore Wind Farm originally developed and consented by Innogy.

Fugro Mercator was selected to undertake ultra-high resolution seismic (UHRS), multibeam echosounder (MBES), side scan sonar (SSS), sub-bottom profiler (SBP), and magnetometer (MAG) geophysical data acquisition to characterise the Awel y Môr offshore main array area for Awel y Môr Offshore Windfarm Ltd.

This report provides information relating to the results of the geophysical survey carried out onboard the vessel Fugro Mercator in the proposed main array area, excluding UHRS results which are discussed in detail in the UHRS results report (*Fugro – WPM1 Main Array Area – UHRS Results Report*).

Guidelines on the use of this report have been provided in Appendix A.

1.1 Survey Aims and Overview

1.1.1 Survey Aims

The main aims of the geophysical survey were:

- To undertake geophysical (MBES, SSS, SBP, MAG and UHRS) and benthic ecology surveys to characterise the Awel y Môr offshore array and export cable route areas.
- To provide detailed interpretation of the baseline data collected to characterise the relevant seabed areas to be used to inform the project environmental impact assessment (EIA) and final development consent order (DCO) application.

1.1.2 Location

The Awel y Môr site is located in the Irish Sea, 10.6 km off the north coast of Wales. Located directly to the west of the existing Gwynt y Môr Offshore Wind Farm, the array site is situated in water depths between 20 m and 40 m Lowest Astronomical Tide (LAT) and covers an area of approximately 136 km². Fugro Mercator was tasked with carrying out the geophysical and UHRS surveys in the array area of the proposed windfarm as seen in Figure 1.1 below.

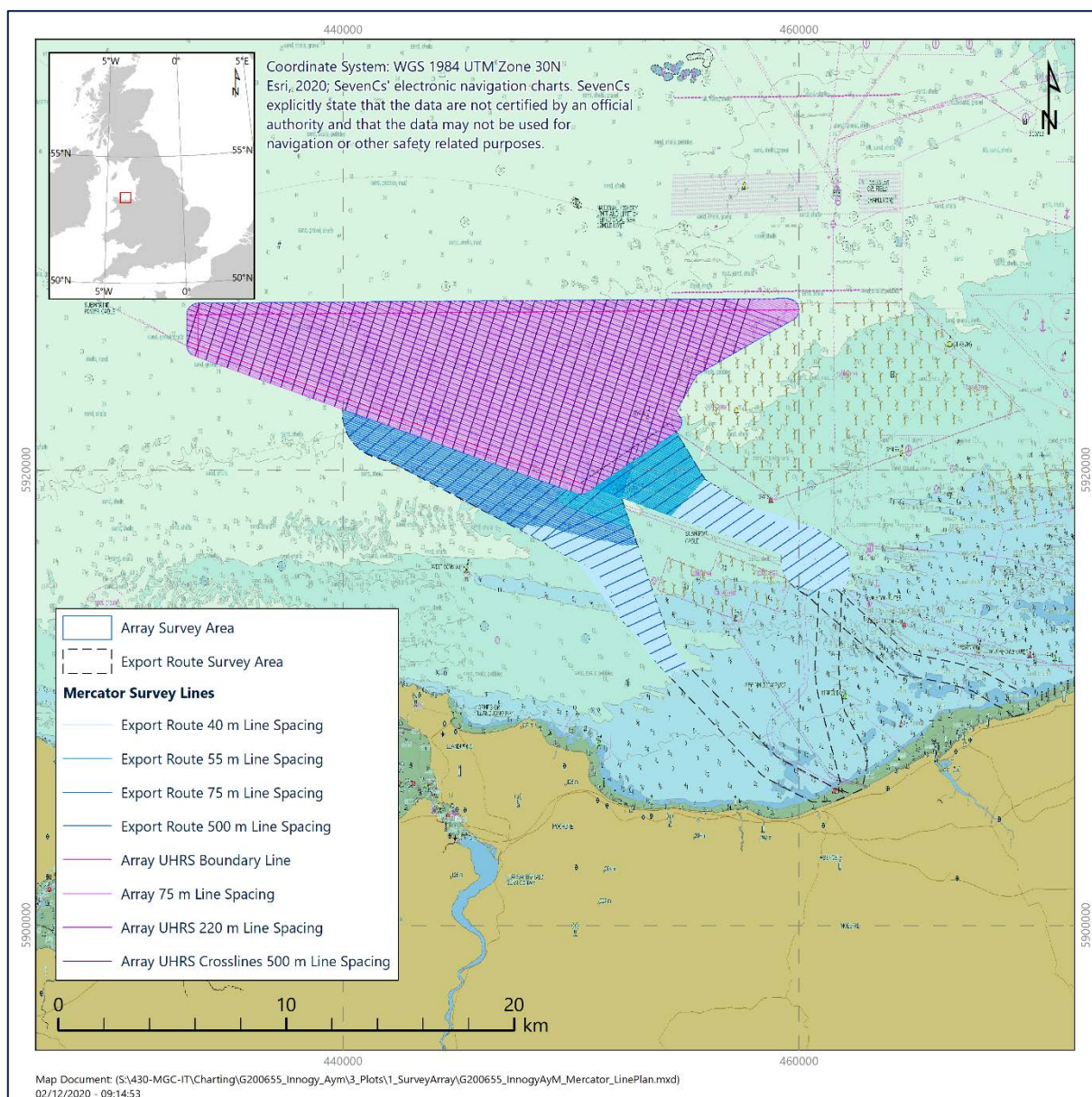


Figure 1.1: Awel y Môr survey area

1.1.3 Survey Overview

Table 1.1 presents a summary of the survey requirements.

Table 1.1: Survey Requirements Overview

Equipment Method	Awel y Môr Offshore Windfarm Ltd requirements
Vessels	Fugro Mercator
Main array Line Spacing	- Line spacing for the UHRS and Geophysical combined scope was 220 m for mainlines and 500 m crosslines. - On completion of the UHRS lines, the vessel continued running a 75m spaced line plan using all geophysical sensors.
Max Vessel Speed	9.0 Kts.
Surface Positioning	2 independent systems; ± 0.1 m horizontally (2-sigma, 95%);

Equipment Method	Awel y Môr Offshore Windfarm Ltd requirements
	■ ± 0.2 m vertically (2-sigma, 95%).
USBL	■ 0.25° angular accuracy (1 sigma); ■ <0.5% of slant range (1 sigma) range accuracy; ■ Antenna aperture 200°; ■ Operating frequency 20 to 30 kHz.
Multibeam Echosounder	■ Data acquired to meet a minimum specification of UKHO Order 1A; ■ Dual head MBES (1024 soundings per head per ping); ■ Collection of Backscatter; ■ Bathymetric data were reduced to LAT using UKHO VORF rev2.
Multibeam Backscatter	■ To be recorded.
Side scan Sonar	■ Dual operating frequency fish 300-500 kHz & 600-900 kHz; ■ 100% coverage across site (including covering nadirs); ■ Identify seabed contacts greater than 1.0 m in any direction – note that only contacts >2.0 m in any direction shall be interpreted; ■ The side scan range was set to provide high resolution information (good resolution and data quality required) across the array area and export cable route; 100 % sonar coverage with the high-frequency system is required. The purpose of this was to acquire baseline information for pre-consent assessment of, marine habitats and archaeological potential areas across the study area; any data will be used with existing surveys (for boulder counts, wreck confirmation and sand wave movement, where appropriate); ■ The position accuracy of detected contacts was less than +/-2 m or better.
Innomar SBP	■ Acoustic power >247 dB/μPa re 1m /~5 kW; ■ Primary frequency 85 – 115 kHz; ■ Low frequency 2 – 222 kHz; ■ Record Length 60 ms; ■ Data acquired digitally at 24 bit and 96 kHz sample rate; ■ Sub-seafloor features were interpreted, and include: • Buried infrastructure; • Wrecks; • Point contacts (buried items - boulders, debris, cobble pavements etc); • Shallow channels; • Sand thickness (mapping base of Holocene sand, base of sand waves, base of gravel banks).
Magnetometer	■ Single G882 marine magnetometer; ■ Resolution: 0.1 nT; ■ Signal strength higher than 400 (Signal strengths 100 to 400 can be accepted after review); ■ Flying height of 3.0 m when water depths lower than 10 m LAT and 4.0 m for water depths higher than 10 m LAT. Concession approved accepts flying heights of 6.0 m for lengths shorter than 200 m when flying over sand waves.
SVP	■ The speed of sound in water was measured in the survey area at the start of each day (as a minimum) and whenever it is deemed necessary (i.e. beginning to have MBES refraction artefact);

Equipment Method	Awel y Môr Offshore Windfarm Ltd requirements
	■ SVPs were undertaken with a resolution of 0.1 m/s and a precision of ± 0.15 m/s;
UHRs	■ Penetration to at least 50 m below seabed, depending on geology; ■ Active head / tail buoys; ■ Firing Interval 1m; ■ Sparker Source – adjustable to 6 kJ; ■ Frequency up to 4000 Hz; ■ Tow depth source 0.5 m; ■ 48 channel streamer, ~100 m length, 24 channels @1, spacing and 24 channels @2 m spacing; ■ Feather angle $< 12^\circ$ – as per contractor exception.

1.2 Geodetic Parameters

The project geodetic and projection parameters are summarised in Table 1.2.

Table 1.2: Project Geodetic and Projection Parameters

Global Navigation Satellite System (GNSS) Geodetic Parameters	
Datum:	WGS84
EPSG Code:	6326
Semi major axis:	6 378 137.000 m
Semi minor axis	6 356 752.314 m
Reciprocal Flattening:	298.257 223 563
Project Projection Parameters	
Grid Projection:	Universal Transverse Mercator
UTM Zone:	30N
Central Meridian:	3°W
Latitude of Origin:	00° 00' 00.000" North
Longitude of Origin	003° 00' 00.000" West
False Easting:	500 000.000
False Northing:	0.000
Scale factor on Central Meridian:	0.9996
EPSG Code:	32630
Units:	Metres

1.3 Vertical Datum

The vertical datum used for this project was LAT. The Vertical Offshore Reference Frame (VORF) Revision 2 supplied by the United Kingdom Hydrographic Office (UKHO) was used to reduce bathymetry data to LAT.

2. Mobilisation and Operations

2.1 Mobilisations

Vessel mobilisation and calibrations for survey operations were undertaken between 10 June and 18 June 2020 in the port of Liverpool, UK. Further equipment verification took place at an offshore calibration site during the transit to the survey area. Full details are presented in document number *003615806-02 Mobilisation and Calibration Report – Fugro Mercator*.

2.2 Operations, Acquisition and Processing

UHRS and geophysical operations commenced on 19 and 26 June 2020, respectively. Survey operations were run on a 24 hour operational basis. Quality assurance (QA) and processing of MBES, MAG, SBP, SSS and UHRS data was carried out onboard the vessel. Further QA, complete processing and interpretation of the data was carried out at Fugro's Portchester office. Geophysical survey operations were completed on 10 August 2020. The vessel demobilised in Liverpool, UK.

Details of the Geophysical Operations can be found in report *003615818-01 Fugro – WPM1 & WPM2 Array Area & ECR (Offshore) Acquisition and Operations Report – Fugro Mercator*.

Quality assurance and processing of multibeam echosounder, magnetometer, sub-bottom profiler and side scan sonar data was carried out onboard the vessel. Further QA, complete processing and interpretation of the data was carried out at Fugro's Portchester office. Full details of the processing will be reported in a separate processing report.

Details regarding UHRS survey processing and results can be found in separate reports:

003615941-01 Fugro - WPM1 & WPM2 Array Area & ECR (Offshore) - Processing report - Fugro Mercator;

003700849-01 Fugro - WPM1 OCP - UHRS Interpretation report - Fugro Mercator.

3. Document References

The following documents are applicable to the WPM1 and WPM2 Array and ECR (offshore) scope of work;

Bide, T P, Campbell, E, Cave, M, Balson, P S and Green, S. 2013. The Marine Mineral Resources of the UK Continental Shelf: Final Report. British Geological Survey Commissioned Report, CR/13/020. 75pp

Fugro Geoconsulting Limited. (2016) Geotechnical Report Measured and Derived Geotechnical Parameters and Final Results: Gwynt y Môr H01N Foundation Site Investigation

Fugro, 2020. 003549504-01 *Fugro - Mobilisation and Calibration Report – Fugro Mercator*. Portchester: Fugro GB Marine Ltd.

Fugro, 2020. 003621967-02 *Fugro – WPM 1& WPM2 Acquisition and Operations Report – Fugro Mercator*. Portchester: Fugro GB Marine Ltd.

Fugro, 2020. 003616051-01 *Fugro – WPM 1 Main Array – Benthic Ecology Monitoring Report*. Portchester: Fugro GB Marine Ltd.

Fugro 2020.003700849-01 *Fugro - WPM1 OCP - UHRS Interpretation report - Fugro Mercator*. Portchester: Fugro GB Marine Ltd.

British Geological Survey - UKRI, 2020. *UK ContShelf BGS 1:1M Seabed Sediments [Shapefile, geospatial data]*. < [http://ogc.bgs.ac.uk/cgi-bin/BGS_Bedrock and Superficial Geology/wms?>](http://ogc.bgs.ac.uk/cgi-bin/BGS_Bedrock_and_Surface_Geology/wms?>), Accessed: October 2020.

Hubbard, A., Bradwell, T., Colledge, N., Hall, A., Patton, H., Sugden, D., Cooper, R., and Stoker, M., 2009. Dynamic cycles, ice streams and their impact on the extent, chronology and deglaciation of the British-Irish ice sheet, *Quaternary Science Reviews*, Vol. 28, 758-776.

Innogy 2019. *Geological Evolutionary History of the Awel y Môr Site*. Swindon; Innogy.

Mellet, C. L., Long, D., Carter, G., Chiverell, R., C., and Van Landeghem, K. J. J., 2015. Geology of the seabed and shallow surface: the Irish Sea, Energy and Marine Geoscience Programme, Commissioned Report CR/15/057, British Geological Survey, Edinburgh.

Seacore Limited, 2005. Gwynt y Môr Offshore Windfarm Preliminary Geotechnical Site Investigation: MetMast C. Seacore Document No. C1041.

Van Landeghem, K. J. J., and Chiverell, R. C., 2011. Irish Sea, R3 Wind Farm Development Zone. Geological appraisal of swath bathymetry and seismo-stratigraphic data collected by Centrica, Report prepared for Centrica, University of Liverpool. 31pp.

4. Results

This section provides a summary of the results of the Awel y Môr main array survey.

4.1 Bathymetry

Multibeam bathymetry data have been provided as gridded ASCII XYZ format relative to LAT with both a 0.25 and 1.0 m bin-size.

Water depths within the Awel y Môr main array generally increased towards the north west, between 15.2 and 41.9 m below LAT. Figure 4.1 shows the bathymetry across the whole site which is further represented in the colour shaded bathymetry charts included in Appendix D of this report.

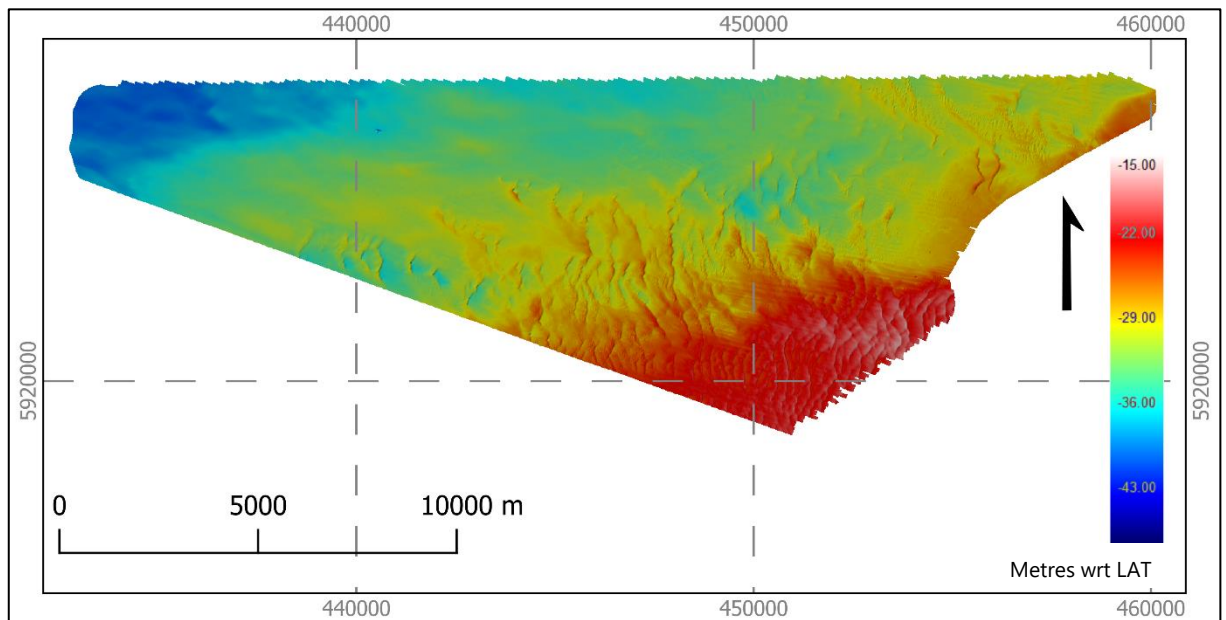


Figure 4.1: Bathymetry overview

The seafloor in the south-east was characterised by undulating sand waves and megaripples, and the seafloor in the north-west was characterised as mostly featureless.

Average seabed gradients were calculated as 0.2° over the relatively featureless seabed, 4.5° over the megaripples, and 4.5° over the sand waves. Maximum seabed gradients were measured at 1.4° over the relatively featureless seabed, 30° over the megaripples, and 18.5° over the sand waves. An overview of seabed gradients is shown in Figure 4.2.

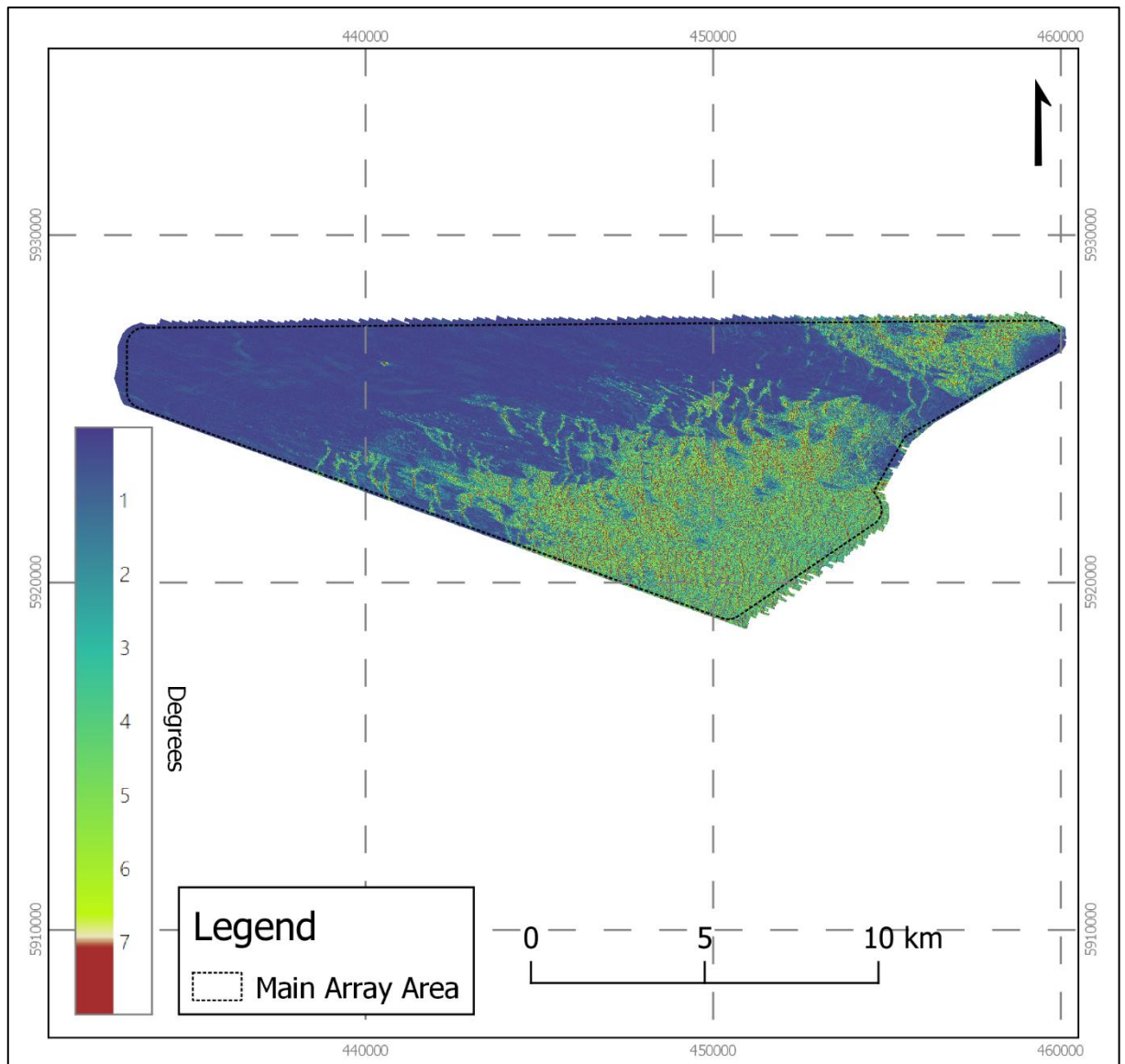


Figure 4.2: Overview of the seabed gradient within the Main Array site

Figure 4.3 and Figure 4.4 provide representative examples of the relatively featureless seabed and of the megaripples.

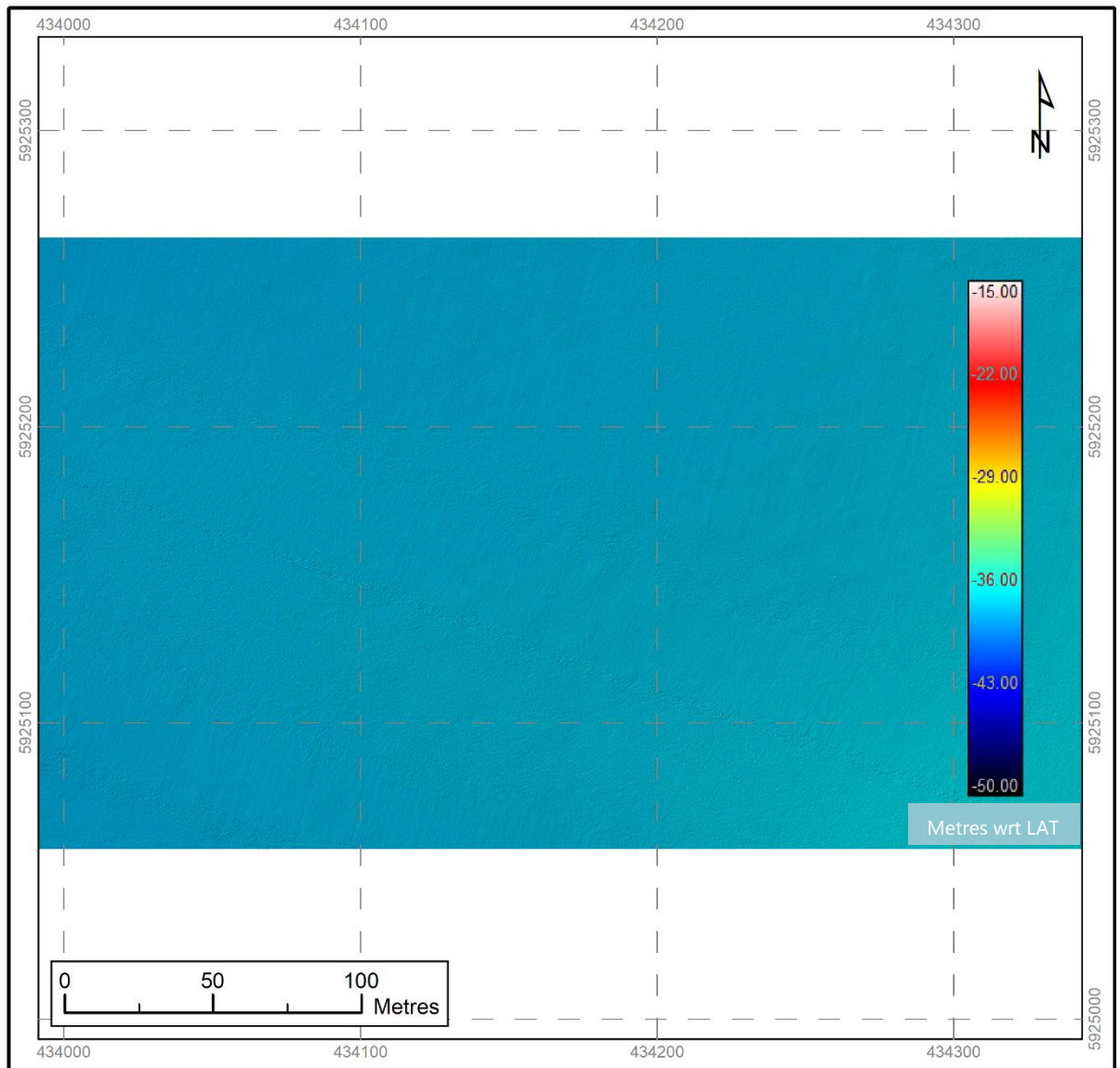


Figure 4.3: Bathymetry data indicating mostly featureless seabed.

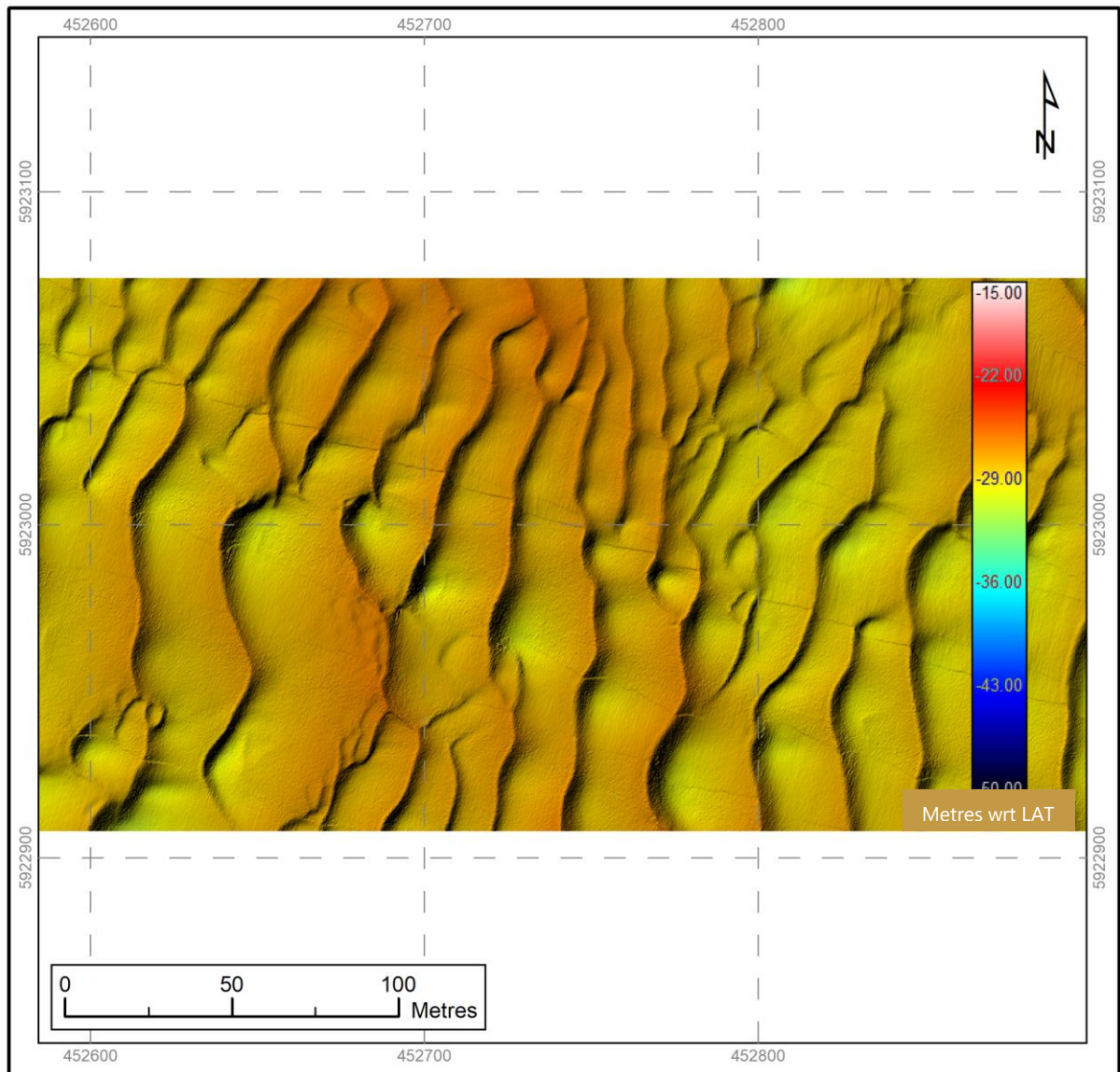


Figure 4.4: Bathymetry data indicating migrating sand waves

4.2 Seabed Characterisation

Seabed characterisation included an interpretation of the seabed sediments, seabed morphology, and seabed features. Seabed characterisation data have been provided in ESRI shapefile format. The seabed characterisation is also detailed in pdf format charts included in Appendix E of this report.

4.2.1 Seabed Sediments

Seabed sediment characterisation was primarily delineated from variations in the reflectivity of the SSS data. Sediment descriptions were defined using the results of the environmental investigation, conducted by Fugro, and British Geological Survey (BGS) data.

The east of the site has been characterised by a lower SSS reflectivity and numerous sand waves and megaripples, whilst the west of the site has been characterised by a more homogenous, medium reflectivity. Seafloor sediments were found by the environmental

camera transects and grab samples, to comprise mostly of sand with varying proportions of gravel content, similar to the BGS charts over the area.

The lower reflectivity areas have been classified as sand, matching the BGS descriptions and the grab sample results. The relatively higher reflectivity areas have been classified as sandy gravel, matching the grab sample results and slightly differing from the gravelly sand description of the BGS data.

Figure 4.5 below provides an overview of the seafloor sediments interpretation for the Awel y Môr Main Array site.

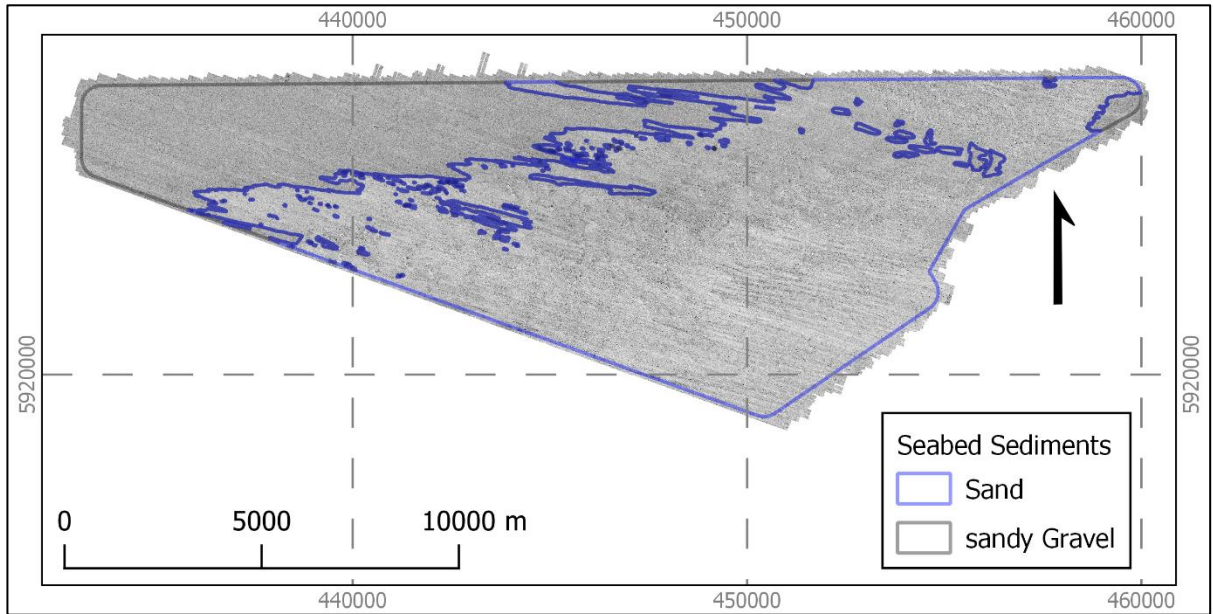


Figure 4.5: Side Scan Sonar example of the seafloor sediments interpretation

4.2.2 Seafloor Morphology

Most of the interpreted sand areas have been characterised by the presence of bedforms with varying height and wavelengths. Identified bedforms were classified according to the wavelength criteria in Table 4.1. Figure 4.7 provides an overview of the interpreted areas of bedforms.

Table 4.1: Bedform classification

Classification	Wavelength [m]
Megaripples	0.5 – 25
Sand Waves	> 25

Figure 4.6 below provides a more detailed example of the sand waves and overlying megaripples, from the south-east of the Main Array site, including an MBES profile.

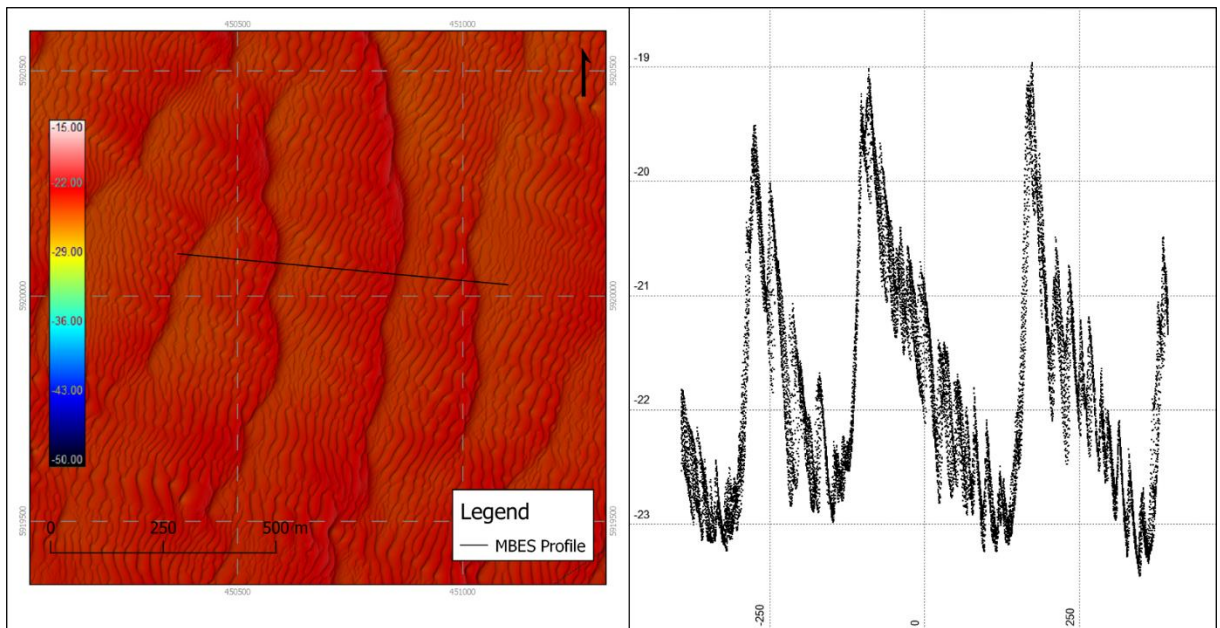


Figure 4.6: MBES example of the sand waves and overlying megaripples in the north of the ECR East A and B

Megaripples were typically found to be around 0.3 to 2 m in height, with wavelengths varying between 5 and 25 m.

Sand waves were typically found to be around 3 to 8 m in height, with wavelengths varying between 25 and 750 m.

4.2.2.1 Sediment Mobility and Scour

During the survey operations it was observed that the sand waves were actively mobile and were migrating significantly in the time between adjacent survey lines. A comparison between the MBES positions of the same sand wave crests on two survey dates provided inferred migration rates at five locations within the survey area. These results may have been influenced by short term events such as seabed changes due to a storm or localised tidal currents and may not represent the overall true seabed movement over time. Results of these calculations have been included in Figure 4.7 and Table 4.2 below.

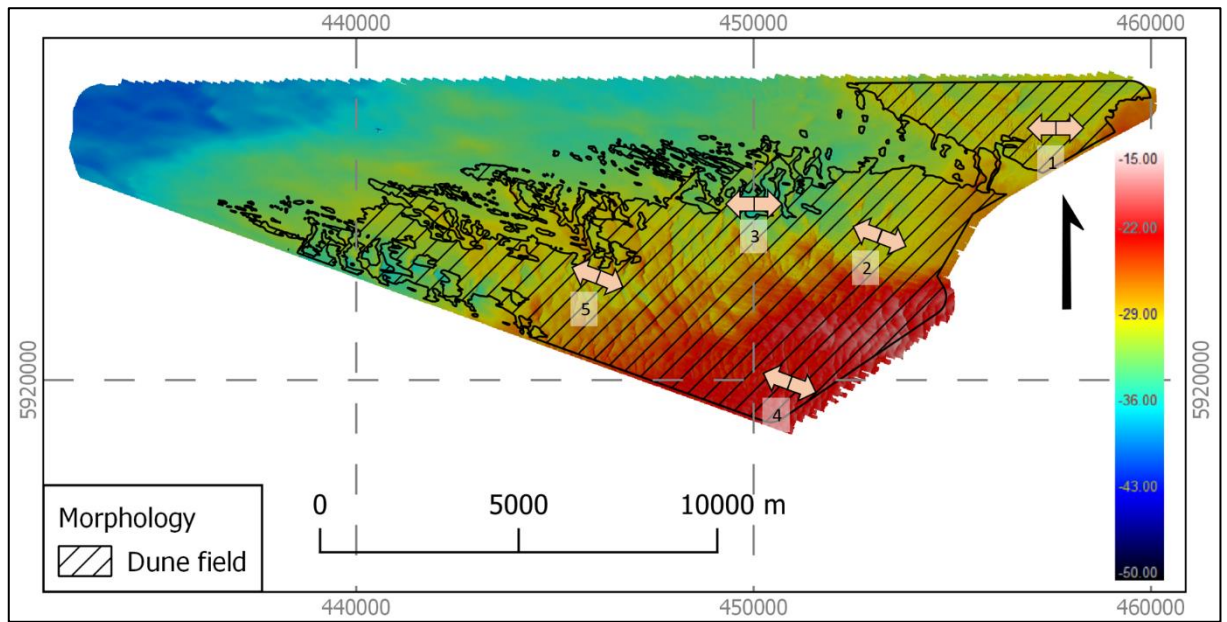


Figure 4.7: Seafloor morphology overview, showing sand wave migration areas

Table 4.2: Inferred Sand Wave Migration Rates from MBES Data

Site	Easting [m]	Northing [m]	Date 1	Date 2	Direction of travel	Change in crest position [m]	Inferred m/yr
1	458741	5927257	26/06/2020	16/07/2020	E	1	18
1	457870	5926619	26/06/2020	16/07/2020	W	1	18
2	452803	5923315	04/07/2020	20/07/2020	WNW	1	23
2	452761	5923171	14/07/2020	20/07/2020	ESE	1	61
3	449840	5924989	23/06/2020	16/07/2020	E	1.5	24
3	449857	5925069	23/06/2020	17/07/2020	W	1	15
4	449688	5919445	26/06/2020	07/07/2020	ESE	1	33
4	449959	5919514	06/07/2020	07/07/2020	WNW	1	365
5	444569	5922699	19/06/2020	01/07/2020	ESE	1	30
5	444813	5922660	19/06/2020	12/07/2020	WNW	1	16

A total of seven areas of scour were interpreted within the Main Array site, with four of them being related to the wreck of the SS Albanian. The largest of these areas of scour measured at around 158 m long, 36 m wide, and 4.2 m deep. Figure 4.8 below illustrates the scour around the SS Albanian from the MBES dataset.

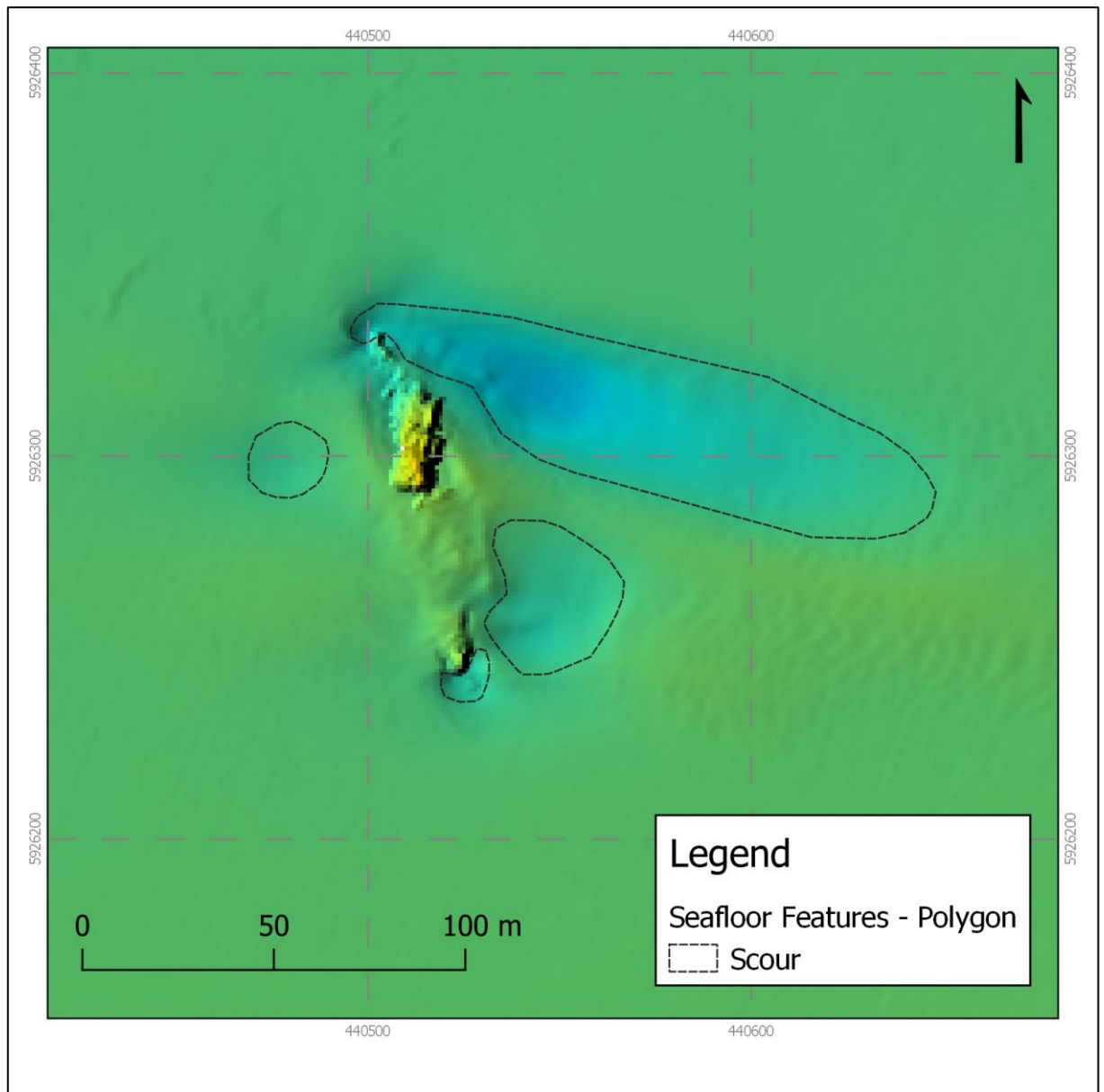


Figure 4.8: MBES data example showing interpreted scour around the wreck of the SS Albanian

In addition, 39 areas of bedform-related scour have been interpreted. These depressions have been found on the lee side of the larger sand waves within the site and ranged from approximately 2 to 7 m deep. Figure 4.9 below provides a typical example of these features, with an MBES cross-profile.

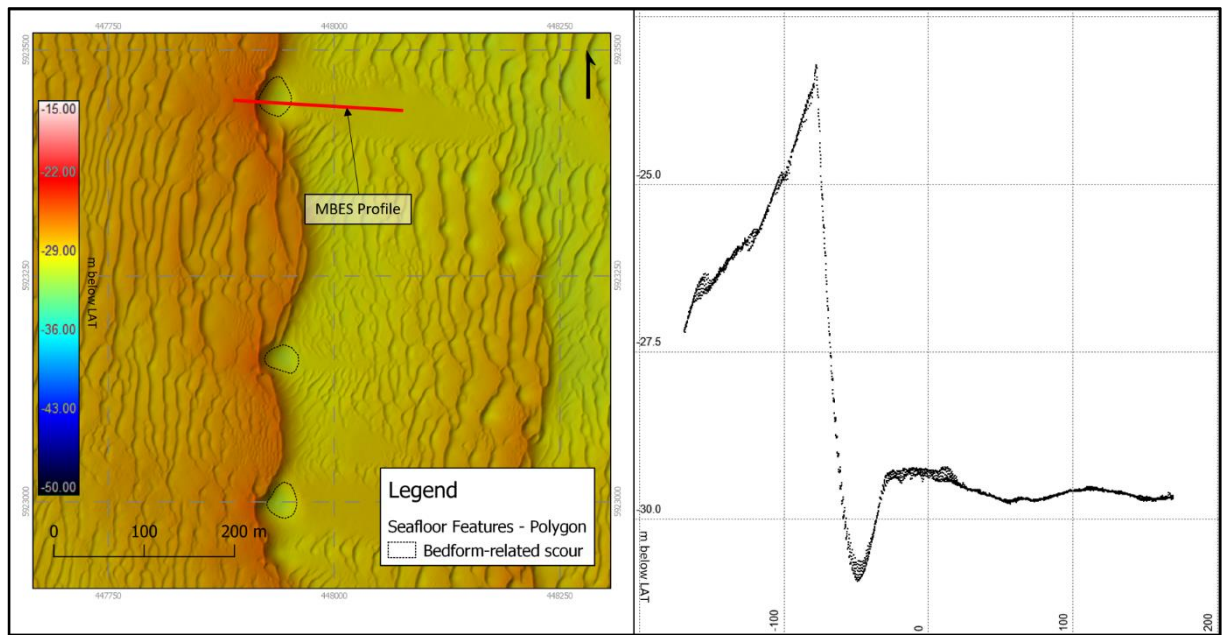


Figure 4.9: MBES data example showing interpreted bedform-related scour

4.2.3 Seabed Features

Seabed features interpretation was primarily conducted from the SSS data, with positioning taken from the gridded MBES data, due to its superior positional accuracy. Features were interpreted as points, polygons, and polylines.

Most of the interpreted seabed features within the main array site were associated with the neighbouring Gwynt y Môr wind farm. Eight turbines and their respective inter-array cables were observed within the survey area, with many of the inter-array cable (IAC) routes containing rock dumps for protection. Figure 4.10 below illustrates the Gwynt y Môr turbine G01N, interpreted from the Awel y Môr main array data.

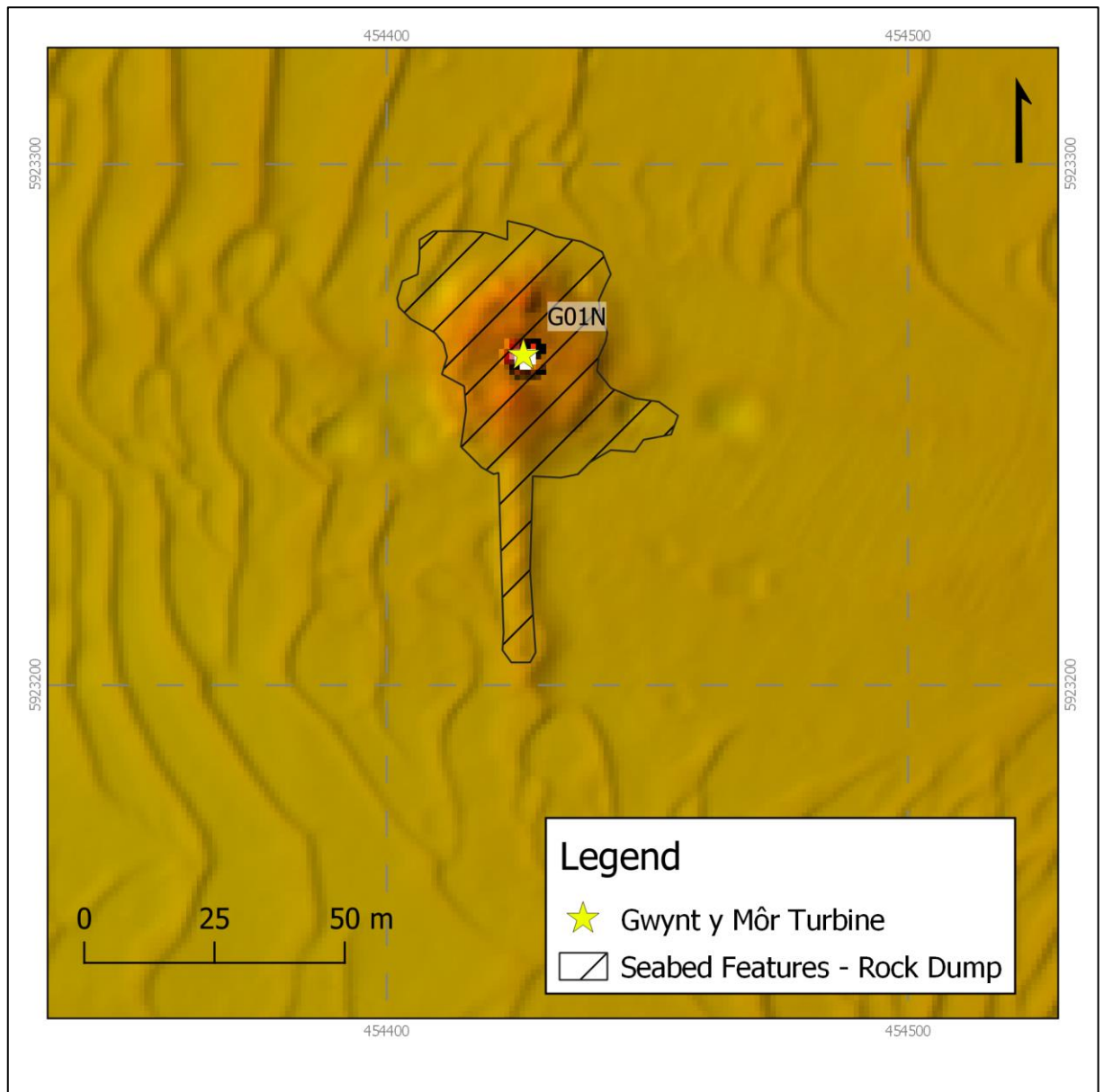


Figure 4.10: MBES data example of Gwynt y Môr turbine G01N

The East-West Interconnector cable was observed running east to west along the southern edge of the survey area. It was primarily observed on the magnetometer data, although its position has been inferred from megaripples present in the shallow backfilled sediments, Figure 4.11 below shows this.

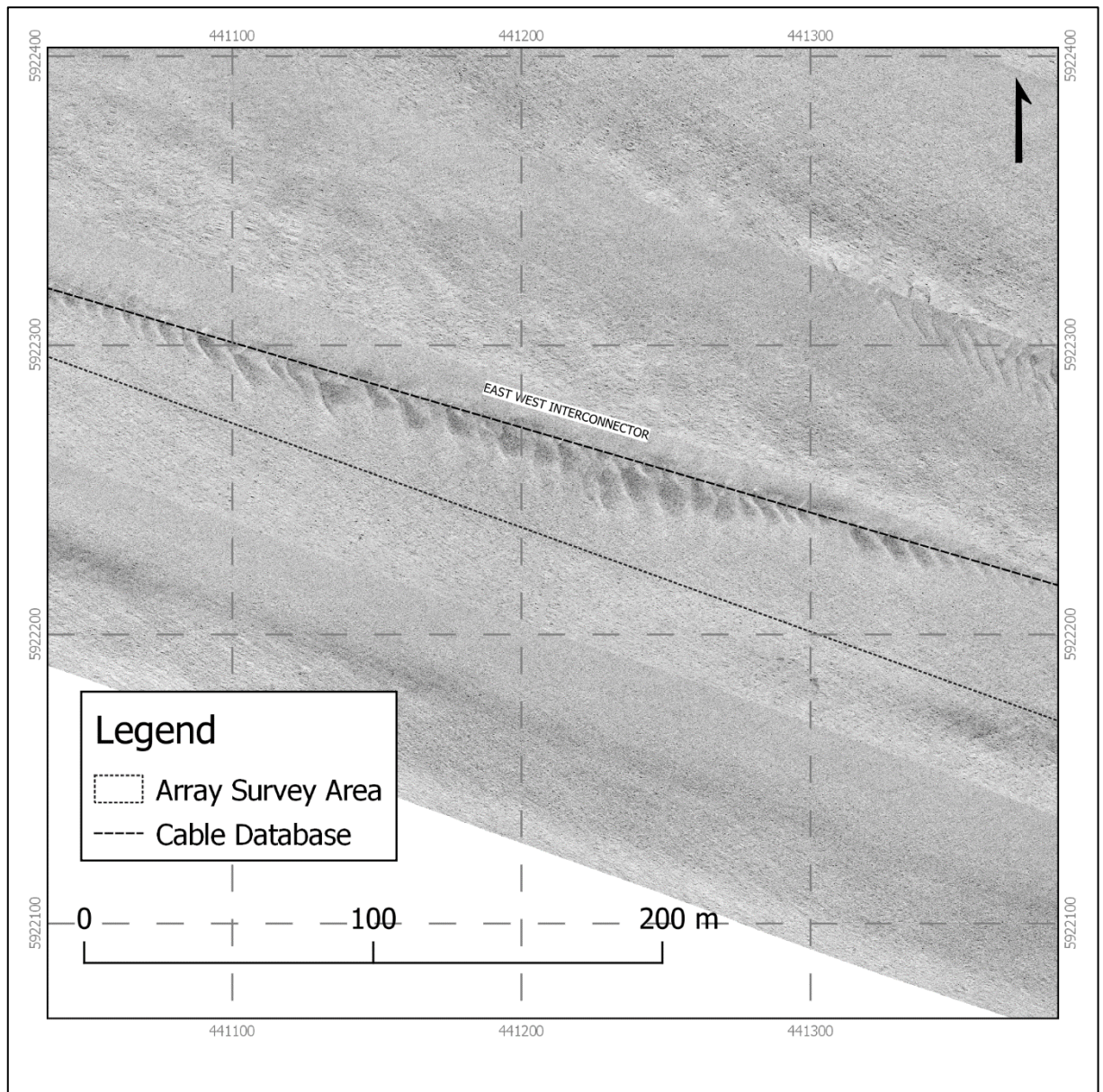


Figure 4.11: SSS data example showing the East-West Interconnector cable

Four wrecks were identified within the Main Array site from all datasets. Details of these have been included in Section 4.3.5 – *Potential Archaeology*.

4.3 Contacts

Seabed and sub-seabed contacts have been interpreted from the SSS, MBES, magnetometer, and SBP datasets. All contact lists have been provided in both CSV and ESRI shapefile formats.

4.3.1 Side scan Sonar Contacts

Side scan sonar contacts were picked using the Chesapeake SonarWiz software, with all contacts of 2 m or larger in any dimension being included in the final listing. Contact positions were taken from the MBES data, due to its superior positional accuracy.

A total of 81 contacts were identified from the SSS data, and a full listing has been included in Appendix B and can also be seen on the seabed characterisation charts in Appendix E.

SSS contacts were classified based on a combination of size and shape. A total of 44 contacts were interpreted as boulders, 29 were interpreted as debris items (including linear debris), 6 were interpreted as wrecks (whole or partial), and 2 were interpreted as seabed mounds.

Figure 4.12 below provides a representative example of the SSS contacts interpreted.

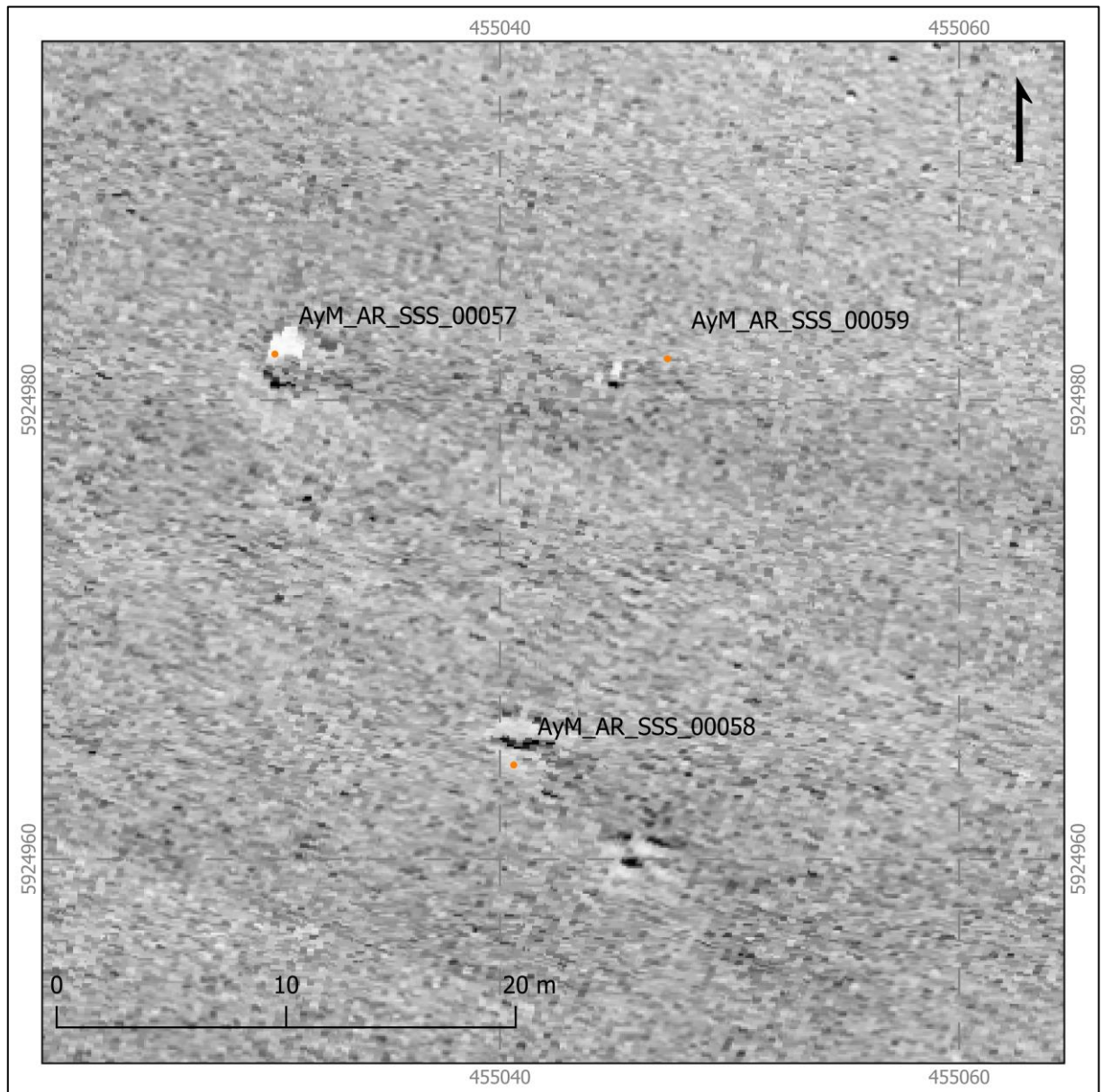


Figure 4.12: SSS contacts identified within survey area

4.3.2 Magnetic Anomalies

Magnetic anomalies were picked from the magnetic analytic signal field grid using the Blakely auto-picking algorithm. A cut-off of 2 nT/m was used to ensure all potential contacts were included. The auto-picked contact list was manually altered to remove any duplicate picks, and to add any contact missed by the algorithm.

A total of 1245 magnetic anomalies were identified from the magnetometer data, and a full listing has been included in Appendix C and can also be found on the seabed characterisation charts in Appendix E.

Of these, 285 of the magnetic anomalies were associated with the East-West Interconnector cable.

Figure 4.13 below shows the magnetic residual field grid over a section of this cable.

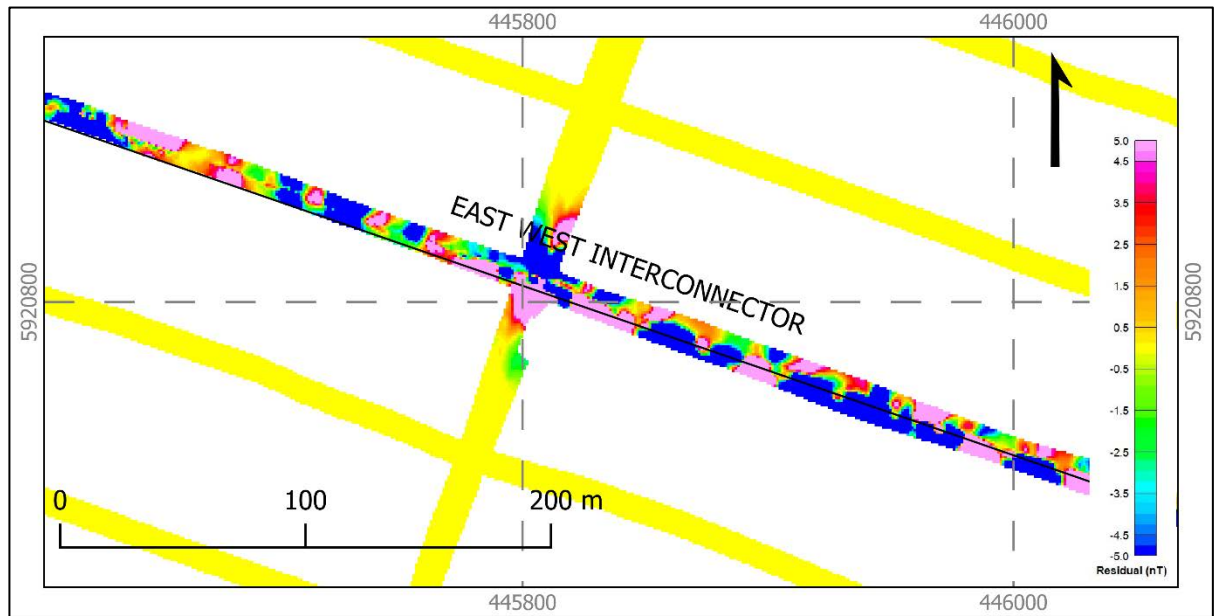


Figure 4.13: MAG residual example showing the East West Interconnector power cable

A further five of the magnetic anomalies were associated with the charted wrecks present within the survey area. The largest of these was measured at 722 nT over the wreck of the SS Albanian.

Figure 4.14 below shows an example of the magnetic residual grid and SSS mosaic over the wreck of the SS Dublin.

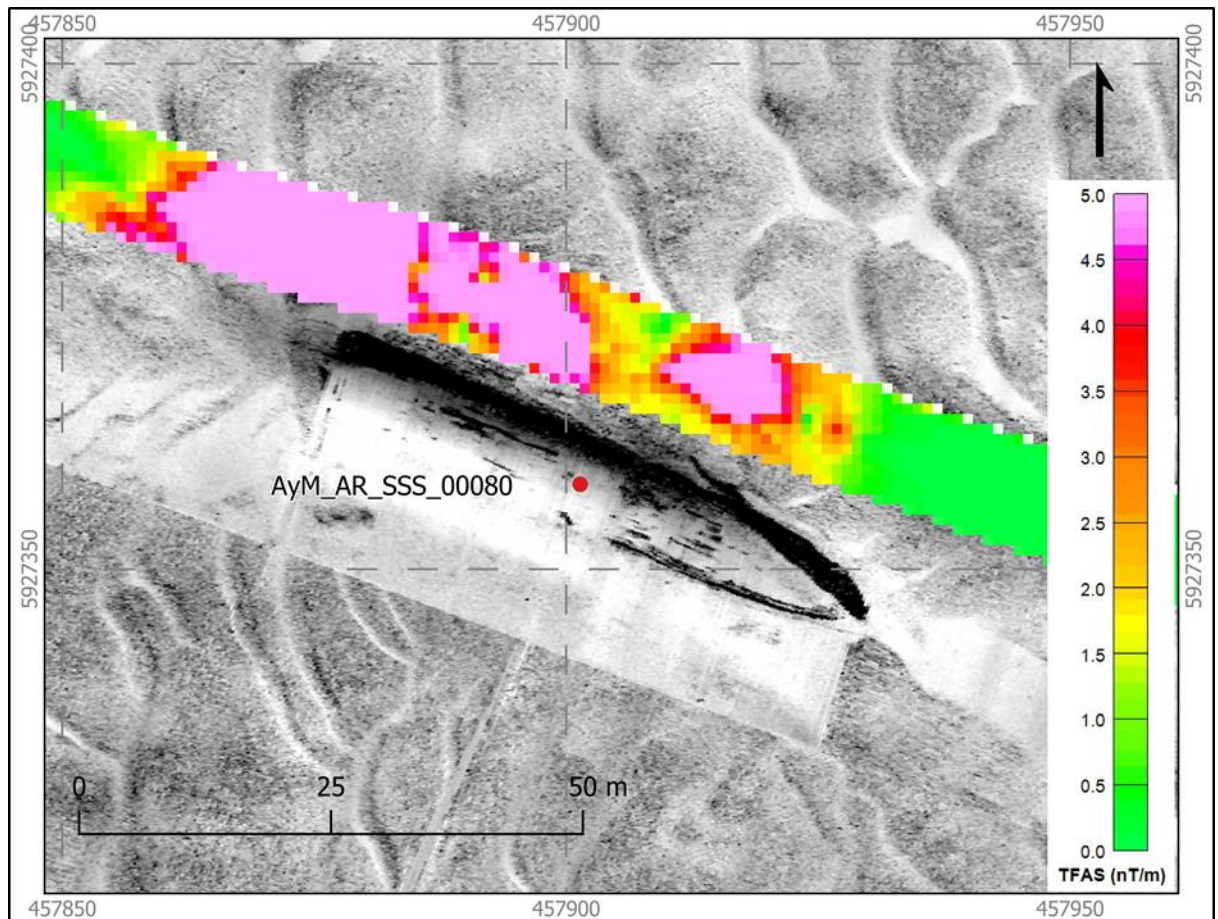


Figure 4.14: MAG analytical signal and SSS data example showing the wreck of the SS Dublin

4.3.3 Buried Contacts

Buried contacts were picked on all SBP lines using the Kingdom software. It has been interpreted that buried contacts manifested as isolated, high-amplitude hyperbolae within the SBP data.

A total of 4802 buried contacts were identified within the Main Array site, with 34 of these correlating to the East-West Interconnector cable.

Burial depths ranged from 0.3 to 14.7 m BSB.

4.3.4 Contact Correlation

Contacts interpreted from each dataset have been correlated together to indicate where they may be related to the same seabed object.

In lieu of a separate MBES contact list, the SSS contacts were correlated to the MBES dataset by moving the SSS contact position to match the MBES data, where applicable.

Magnetic anomalies were correlated to the SSS contacts in ArcGIS. Where contacts were located within 2 m of each other, they were considered correlated. This correlation does not consider vertical separation, as estimated burial depths for the magnetic anomalies has not been conducted as part of the survey scope of work.

No contacts were found to be correlated between the SSS and magnetometer datasets within the Main Array site. Contacts attributed to the wrecks within the site may be correlated, but the distance between the interpreted MAG and SSS points was too large.

4.3.5 Potential Archaeology

Several contacts within the SSS contact list have been interpreted as anthropogenic, with a total of 24 debris items, five items of linear debris, and six contacts associated with four wrecks within the array area.

Details of the four wrecks and their associated SSS contacts have been included in Table 4.3 below. They are also graphically represented on the seabed characterisation charts in Appendix E.

Table 4.3: Details of the Wrecks Observed within the Array Survey Area

Geodetic: WGS 84 UTM Zone 31 N				
Wreck Name	SSS Contact ID	Easting [m]	Northing [m]	L x W x H [m]
SS Dublin	AyM_AR_SSS_00080	457 901	5 927 358	59.9 x 9.2 x 1.0
SS Albanian	AyM_AR_SSS_00018	440 512	5 926 304	32.8 x 9.4 x 2.5
	AyM_AR_SSS_00022	440 525	5 926 253	20.2 x 1.7 x 4.7
SV Chacabuco	AyM_AR_SSS_00033	447 379	5 923 883	7.6 x 3.0 x 2.4
	AyM_AR_SSS_00034	447 413	5 923 860	17.7 x 7.1 x 2.0
Un-named charted Wreck*	AyM_AR_SSS_00076	456 277	5 926 972	29.4 x 6.0 x 2.8
*Wreck is charted but un-named in UKHO information.				

The wrecks of the SS Albanian and the SV Chacabuco were represented by two SSS contacts each, as both contained additional large debris items at the charted site of the wrecks.

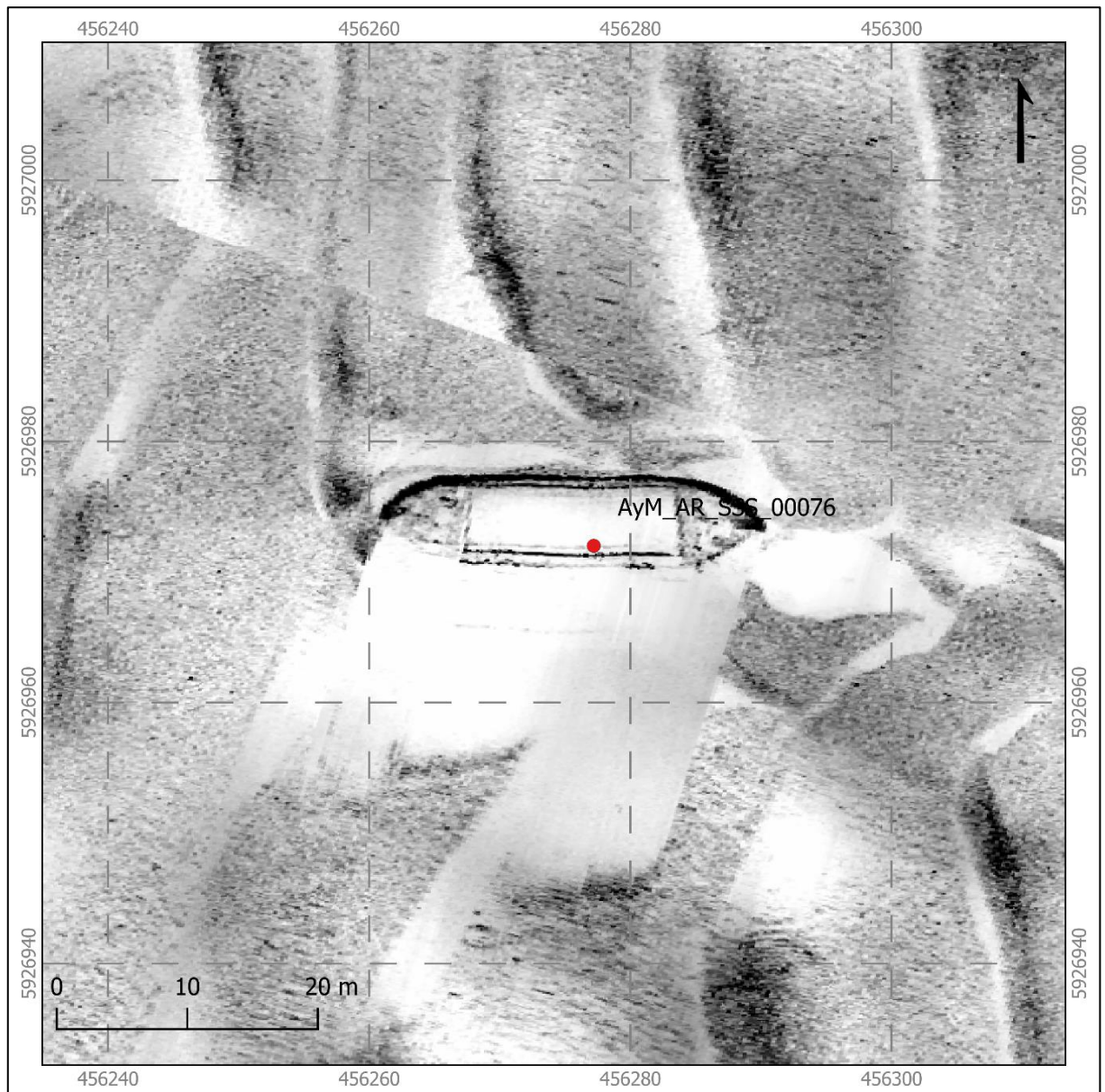


Figure 4.15: SSS example showing an un-named wreck* identified within survey area

The largest of the interpreted debris items was AyM_AR_SSS_00023 associated with the wreck of the SS Albanian. It measured at 19.1 m long, 0.9 m wide, and 0.6 m high.

The longest item of interpreted linear debris was AyM_AR_SSS_00045, which measured at 41.2 m long, 0.5 m wide, and 0.1 m high.

4.4 Sub-Seabed Interpretation

The following sections provide a description of the sub-seabed conditions across the Awel y Môr main array site, as interpreted primarily from the SBP data. Detailed results of the UHRS interpretation can be found within the separate UHRS interpretation report 003700849-01 *Fugro - WPM1 OCP - UHRS Interpretation report - Fugro Mercator*.

SBP interpretation grids have been provided in ASCII XYZ format, along with vertical thickness isochore contours in ESRI shapefile format and are also represented in the sediment isochore charts in Appendix G, Appendix H and Appendix I.

4.4.1 Geological Overview

This section provides an overview of the main geological units which were interpreted from the SBP data.

The primary aim of the SBP survey was to acquire detailed information of the sub-seabed conditions to a depth of 5 m below seabed (BSB). This interpretation assists the UHRS interpretation by providing higher resolution information on the Quaternary geology.

4.4.1.1 Geological Setting and Background Information

The Quaternary geology of the Awel y Môr site has been shaped and influenced by a series of glacial events during the retreat of the British Isles ice sheet and Irish Sea Ice Stream (ISIS). Overlying the bedrock is an extensive sequence of Quaternary (150 Ka - present) glaciogenic and seabed sediments. During this period, the Earth underwent periodic orbital forcing leading to large variations in climate and sea level. These variations in environment are strongly related to the glacial processes operating across the British Isles ice sheet. Three major phases of Mid-Late Quaternary glaciations are identified in the Irish Sea, called the Elsterian, Saalian, and Weischelian. The lattermost of these glaciations is believed to be the most significant influence on the Quaternary sediments of Awel y Môr, due to ice cover in excess of 2km thickness, lasting from ~30-22 Ka (Hubbard et al, 2009).

The largest ice mass in the vicinity of the site was the terrestrial Welsh Ice Cap (WIC), centred on the mountains of Snowdonia and the Brecon Beacons. Its expansion was accelerated by the end of the Alesund Interstadial warm period, around 30-28 Ka. The glacial environment of the Irish Sea is considered to have been highly dynamic, due to the presence of ice streams – fast moving regions of ice transport away from the WIC – which controlled local sedimentation at fluctuating glacial margins.

There has been some uncertainty with regards to the regional environmental history of the margin of the Irish Sea Ice Stream (ISIS). In one case, termination of the ISIS on a terrestrial margin leads to a combination of cold climate weathering and reworking of glacial sediments. In another, termination at a marine margin results in high preservation of landforms and sediments. Current research (Van Landeghem and Chiverell, 2011) estimates the boundary between these two modes of environmental change to occur just south of the Isle of Man, placing the Awel y Môr site in the domain of marine deglaciation. The influence of glacial processes operating at a fluctuating marine margin has given rise to a high degree of lateral and vertical variability in the Quaternary sediments (Mellet et al, 2015).

The seabed sediments at Awel y Môr are the Holocene Surface Sands Formation (SSF). They are interglacial superficial sediments, typically composed of sands, silts and clays (Mellet et al, 2015) that are unconsolidated in nature and mobilised in the form of small bedforms and

larger sand waves. The deposition of the SSF is thought to have taken place during the end of the Last Glacial Maximum which commenced the flooding of the Irish Sea Basin from ~10-8 Ka. Therefore, the sequence is that of a marine transgression. The thickness of the Holocene SSF is typically <5m (Bide et al., 2013). A coarse grained 'lag' deposit deriving from winnowing currents may be exposed at the seabed where the overlying mobile sediment has been removed (Mellet et al, 2015).

The pre-Holocene sediments at the site include the glacial Western Irish Sea Formation (WIS A & B Upper and Lower) and the older Cardigan Bay Formation (CBF). The WIS A formation is considered to represent the transition to late glacial in the Weischelian. This is seen in the progradation of deltaic to glaciomarine sands, into sand-bearing muds of the more fully marine facies. The underlying WIS B Upper is a stratified prograded member which bears boulders, cobbles and shallow gas, along with the WIS A. The WIS B Lower is Incision infill with chaotic facies that is associated with a glaciolacustrine environment.

Across the Irish Sea, the upper members of the CBF and WIS B are observed to exhibit interlayering and lateral transitional behaviour, rather than obeying a simple vertical transition everywhere. The older CBF constitutes a stiff glacial diamict and is boulder prone. The depositional history of the CBF records Saalian into Weischelian, with the former draining the ice sheet margin due to deglaciation at around 115 Ka, when the region succumbed to marine transgression. In this scenario, erosion would have provided considerable counterweight to the deposition due to the influence of sub-aerial weathering (Buckland et al, 2019), accounting for poor preservation at this interval.

The main units that have been interpreted across the Awel y Môr site, from both SBP and UHRS data, are listed in Table 4.4.

Table 4.4: Summary of the Interpreted SBP and UHRS Geological Units

Formation	Interp name	Dataset	Seismic Character
Holocene Surface Sands Formation	R01 Holocene	SBP	Near surface, low amplitude and discontinuous horizons
Channel Infill	R02 Channel Infill	SBP	Significant attenuation within the unit, with a high amplitude base
Western Irish Sea	R03 WIS Upper	SBP	Highly variable, between well-ordered horizons and attenuated signal. Often defined by a high amplitude base horizon
	R04 WIS Lower	SBP UHRS	Discontinuous, medium amplitude base reflector, with high levels of signal attenuation within the unit
Cardigan Bay	R05 CBF	UHRS	High amplitude top reflector, followed by variable seismic character from faint and unstructured, to chaotic high amplitude
Bedrock	R06 Weathered Bedrock	UHRS	Relatively structureless lenses or high amplitude top horizon, running parallel to the competent bedrock top. Highly weathered surface
	R07 Competent Bedrock	UHRS	Laterally continuous top horizon, with well-layered sediments. Highly stratified unit with folding and faulting

Four main units have been interpreted from the SBP data within the Main Array site, all originating from the past 30 ka. Western Irish Sea members A and B have not been interpreted separately due to having similar seismic characters (Mellet et al, 2015) and have instead been interpreted into seismic facies; WIS Upper and WIS Lower.

4.4.2 Geological Interpretation

Sub-bottom interpretation was carried out using the Kingdom software.

Several BGS boreholes were available for use, with borehole 70/7 being closest in proximity to the Main Array site. As it still lies an appreciable distance from the main array site, and given the high lateral variability in the sediments, it has been used only tentatively for reference. The H01N (Fugro Geoconsulting Limited, 2016) and the Metmast C (Seacore Limited, 2005) boreholes exist within the Main Array site, and have been used primarily to provide lithological descriptions for the interpreted units. Despite being relatively close to each other, these boreholes differ in lithological findings, reflecting the high variability seen across the site. The Metmast C borehole was used for the initial identification and naming of reflectors within the SBP, and to provide further information regarding vertically changing sediment composition.

Due to the lack of geotechnical control in comparison with the scale of the site, lithological descriptions are low confidence and interpreted geological boundaries may change in future, following the availability of geotechnical data and improved velocity modelling.

The four main horizons interpreted from the SBP data within the Main Array site, representing the base of the following units:

- R01 Holocene sediments;
- R02 Channel infills;
- R03 Western Irish Sea Upper;
- R04 Western Irish Sea Lower.

Figure 4.16 illustrates a typical SBP profile with the interpreted horizons overlain.

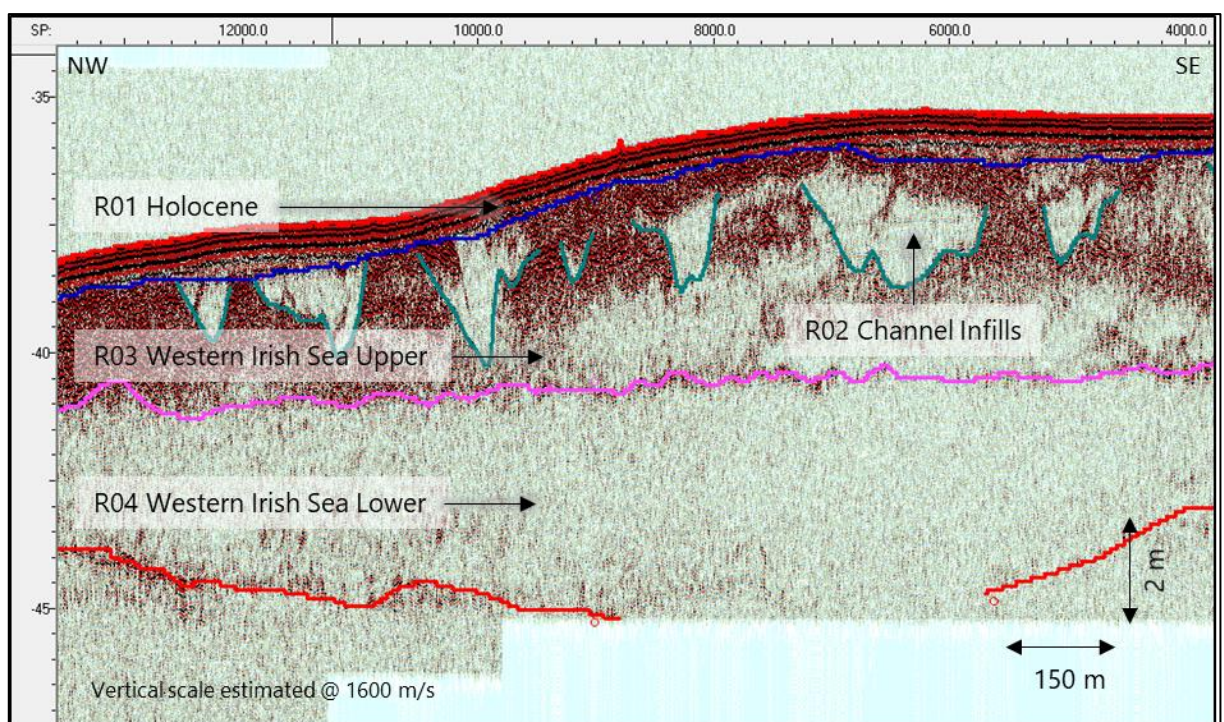


Figure 4.16: Annotated SBP Line GM022, Showing Interpreted Units

The vertical striping effect noted over the sand waves is an artefact of seabed reflection from inclined seabed features and corresponding down slope area producing slight acoustic shadow. Sub surface reflectors can still be identified and through these areas, so the data were deemed acceptable. Figure 4.17 below illustrates this effect on line GM002.

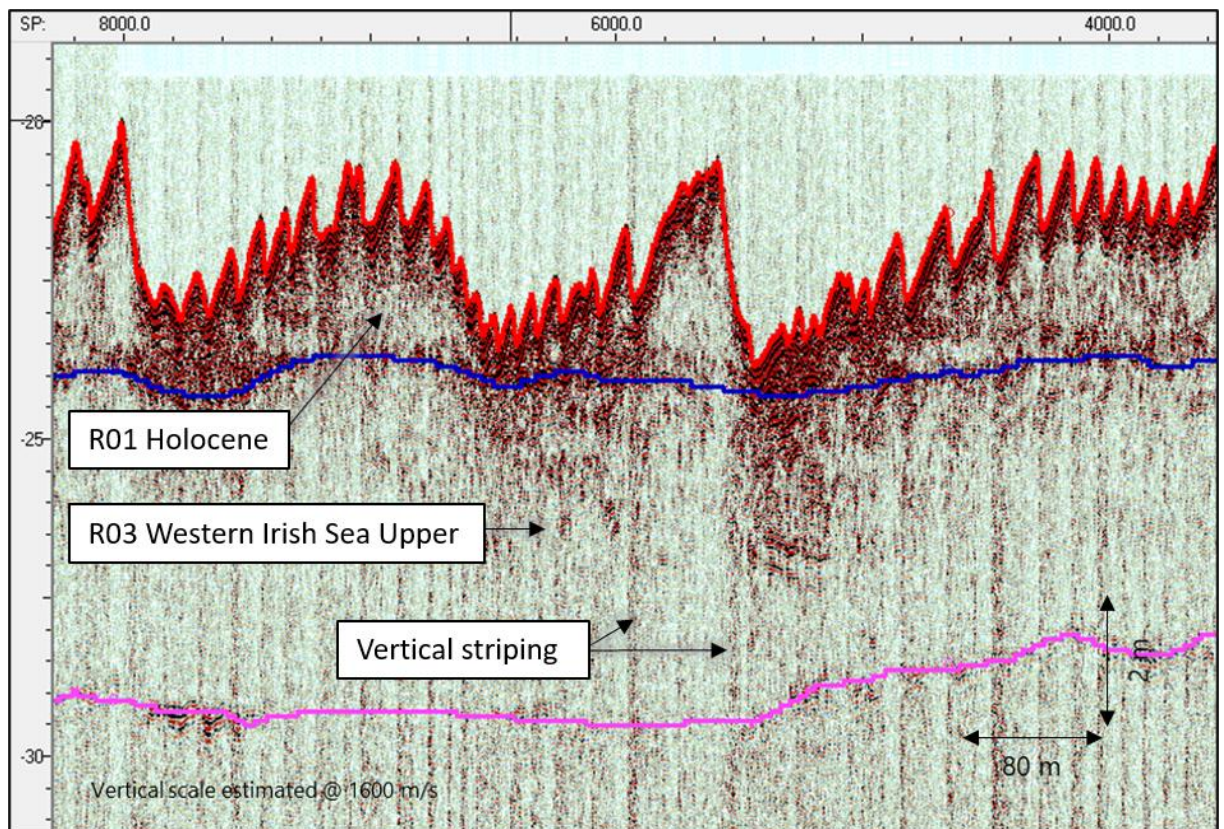


Figure 4.17: Annotated SBP Line GM022, showing vertical striping

4.4.2.1 Holocene Sediments (R01)

The shallowest unit is interpreted as recent Holocene Surface Sands Formation (SSF), and its base is marked by the horizon R01. It is characterised by near surface, low amplitude and discontinuous returns in the SBP data.

The Holocene sediments have been described by the Metmast C borehole as being predominately unconsolidated, loose, medium sands with occasional shells and shells fragments and fine, rounded gravel. The thickness of the unit is observed up to 9.4 m in the south-east section of the survey area as shown in Figure 4.18.

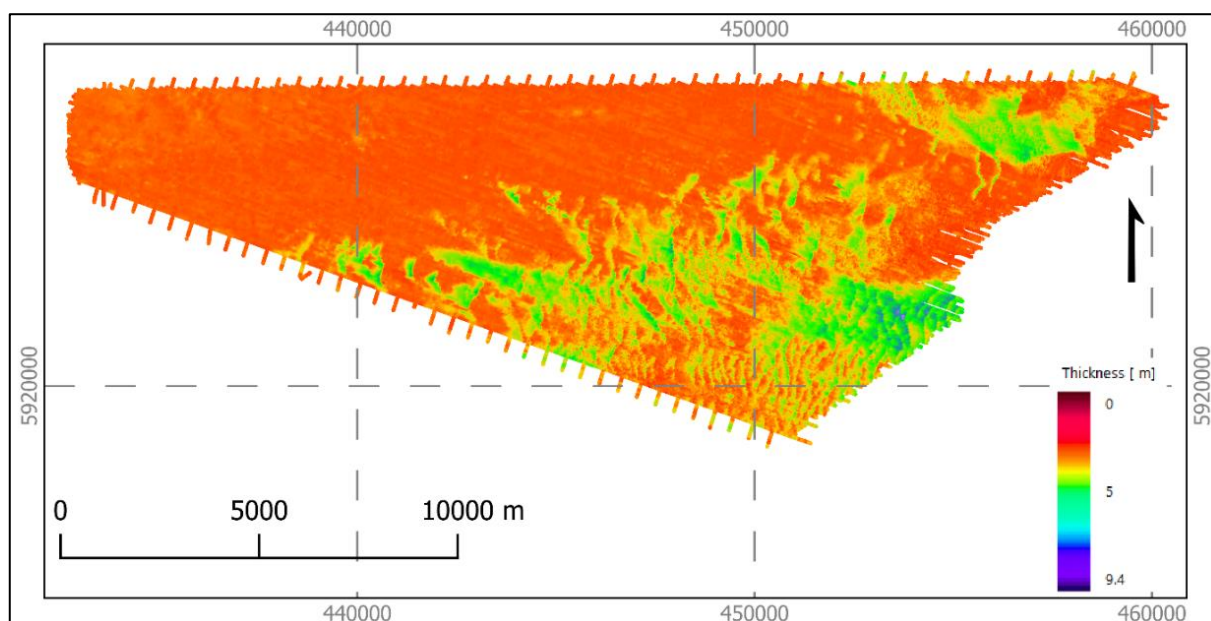


Figure 4.18: Holocene unit thickness (R01)

In general, thickness of this unit increases from west to east across the site, correlating with the decreasing gravel content, and the appearance of sand waves towards the east.

The depth to the base of the unit ranges from 0 to 9.4 m BSB.

Full interpretation of the R01 sediments can be seen in the sediment isochore charts in Appendix G.

4.4.2.2 Channel Infills (R02)

The second geological unit has been interpreted as the base of a weathered channel infill layer within the R03 WIS Upper unit, and its base is marked by the horizon R02. It is seismically characterised by a high amplitude reflector, and significant attenuation.

These channels are tentatively interpreted as being formed from Welsh Ice Cap meltwater early in the marine transgression into the Holocene, perhaps during the uncovering of the site during the glacial retreat (~18 ka) leading to an increasing marine influence around 14 ka (Innogy, 2019). A lithological description for R02 has not been provided as the channels do not intersect with any currently available geotechnical data.

The thickness of the unit is observed up to 6.7 m in discrete patches to the east and centre of the survey area. Thickness of this unit averages at 1.16 m and slightly increases from west to east across the site. Although the channel infill averages at a depth of 1.8 m below seabed, it is variable, reaching 7.2 m at its greatest depth and 0.44 m at its most shallow. The widths of individual channels are difficult to define, owing to their tendency to appear in high density clusters across the site, leading to some complexity. However, individual channels appear to typically range from ~30 m to ~600 m in width.

An isochore for R02 was not generated due to its sparse nature, and relative geographic isolation. As it is interpreted as an internal infill channel of the Western Irish Sea, it has been

included in the R03 vertical thickness isochore. The extent of the channel infills has been included in Figure 4.19 below.

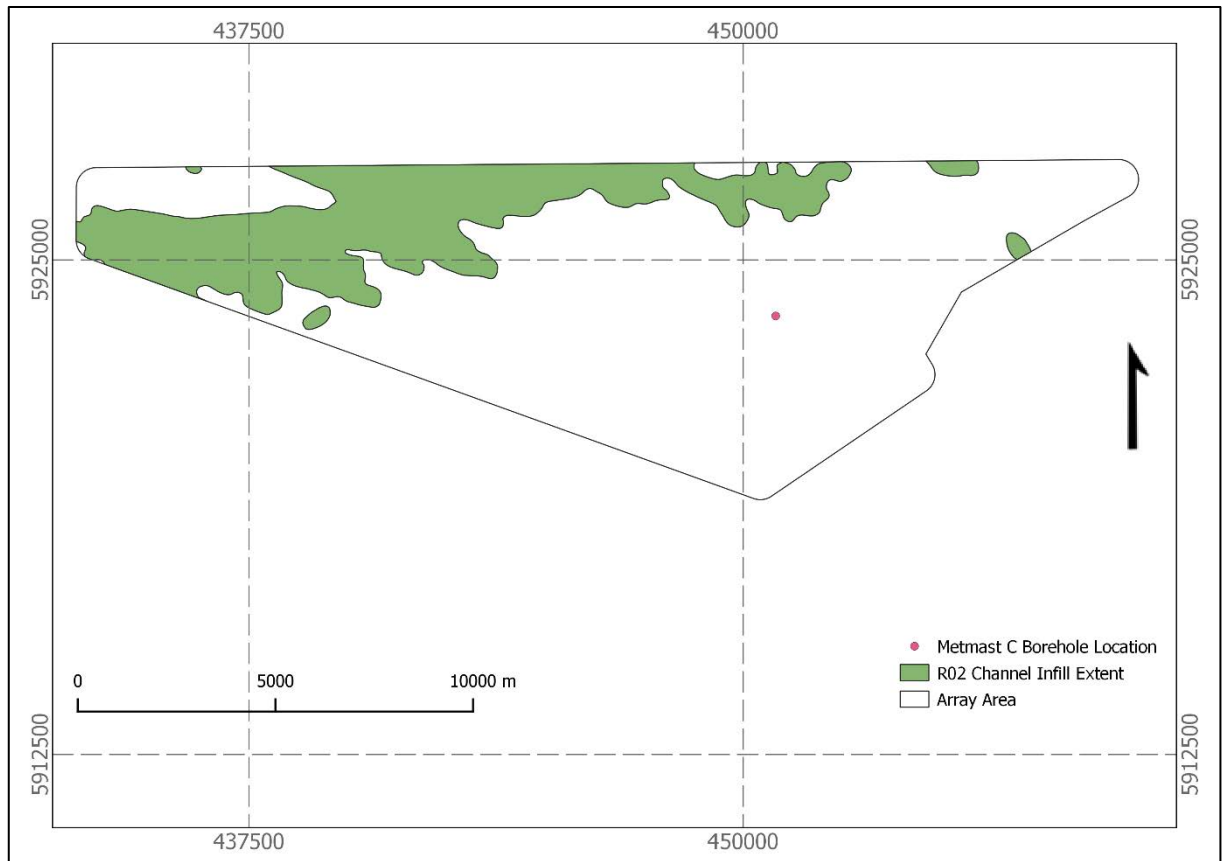


Figure 4.19: Extent of Channel Infill Interpretation

4.4.2.3 Western Irish Sea Upper Unit (R03)

The base of the Western Irish Sea Upper is characterised by a high-amplitude, chaotic reflector in the SBP data, with the general seismic character being highly variable. Some areas display clear parallel layering, which is often laterally replaced by a clear, attenuated seismic character. Due to the high variability and the lack of high density geotechnical information, this unit was particularly difficult to delineate. This unit is observed as coming close to the seabed in places where the R01 unit is thinnest.

The WIS Upper has been interpreted from the Metmast C borehole to comprise of fine to medium sand, progressing to fine to coarse sand and gravel with depth, thought to correspond to the WIS prograded facies. Although the BGS 70/7 borehole to comprise of stiff, sandy boulder clay, thought to correspond to the WIS mud facies. This variability in clay content may relate to the lateral variability in seismic character observed throughout.

The thickness of the unit is observed up to 11.1 m in the south of the survey area as shown in Figure 4.20.

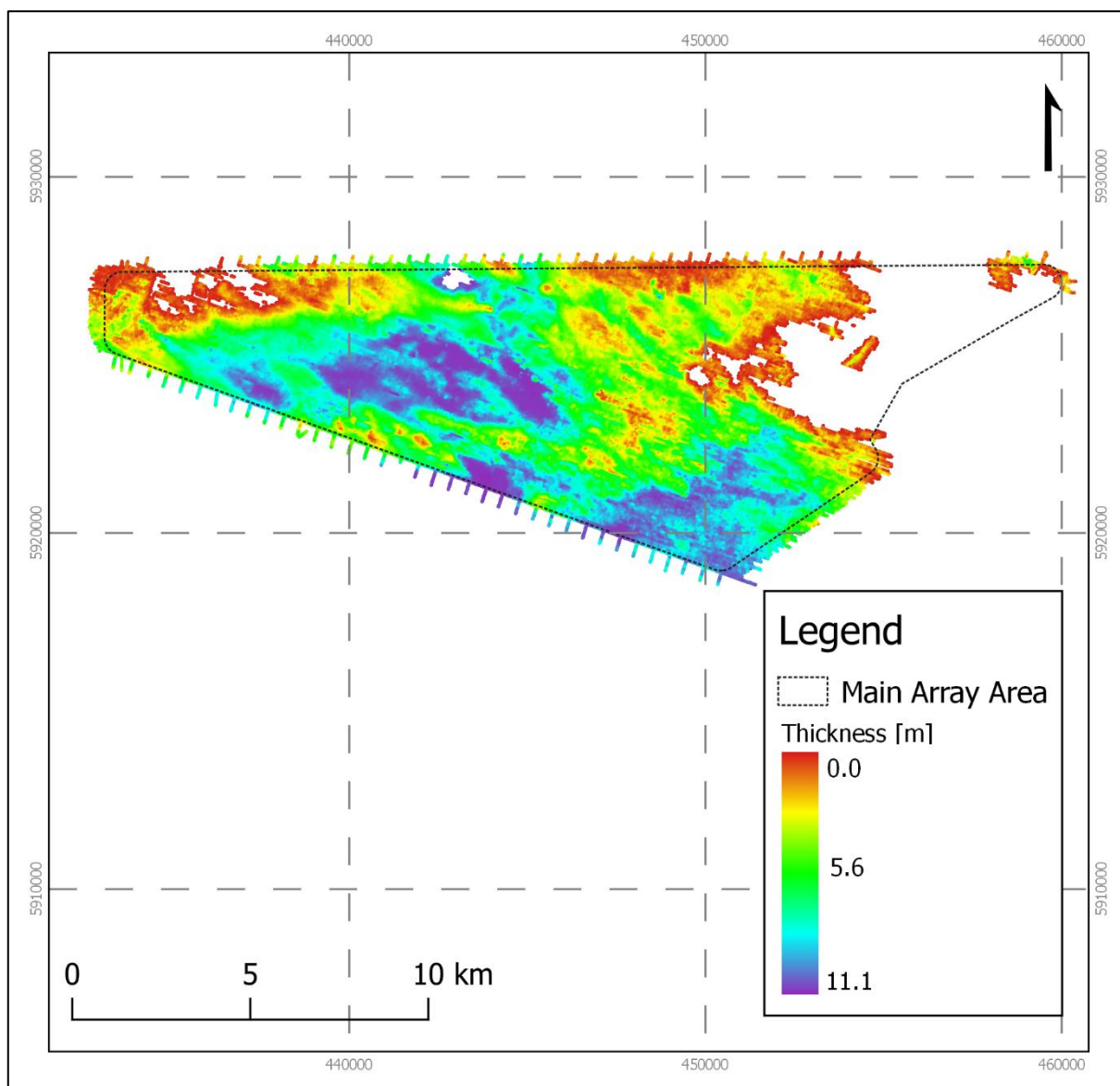


Figure 4.20: Western Irish Sea Upper unit thickness (R03)

In general, the thickness of this unit increases from north to south across the survey site. The unit shallows toward the east of the survey area and becomes absent from the SBP data.

The depth to the base of the unit ranges from 0 to 13.4 m BSB. Figure 4.21 below provides an overview of the base depth BSB across the Main Array Site.

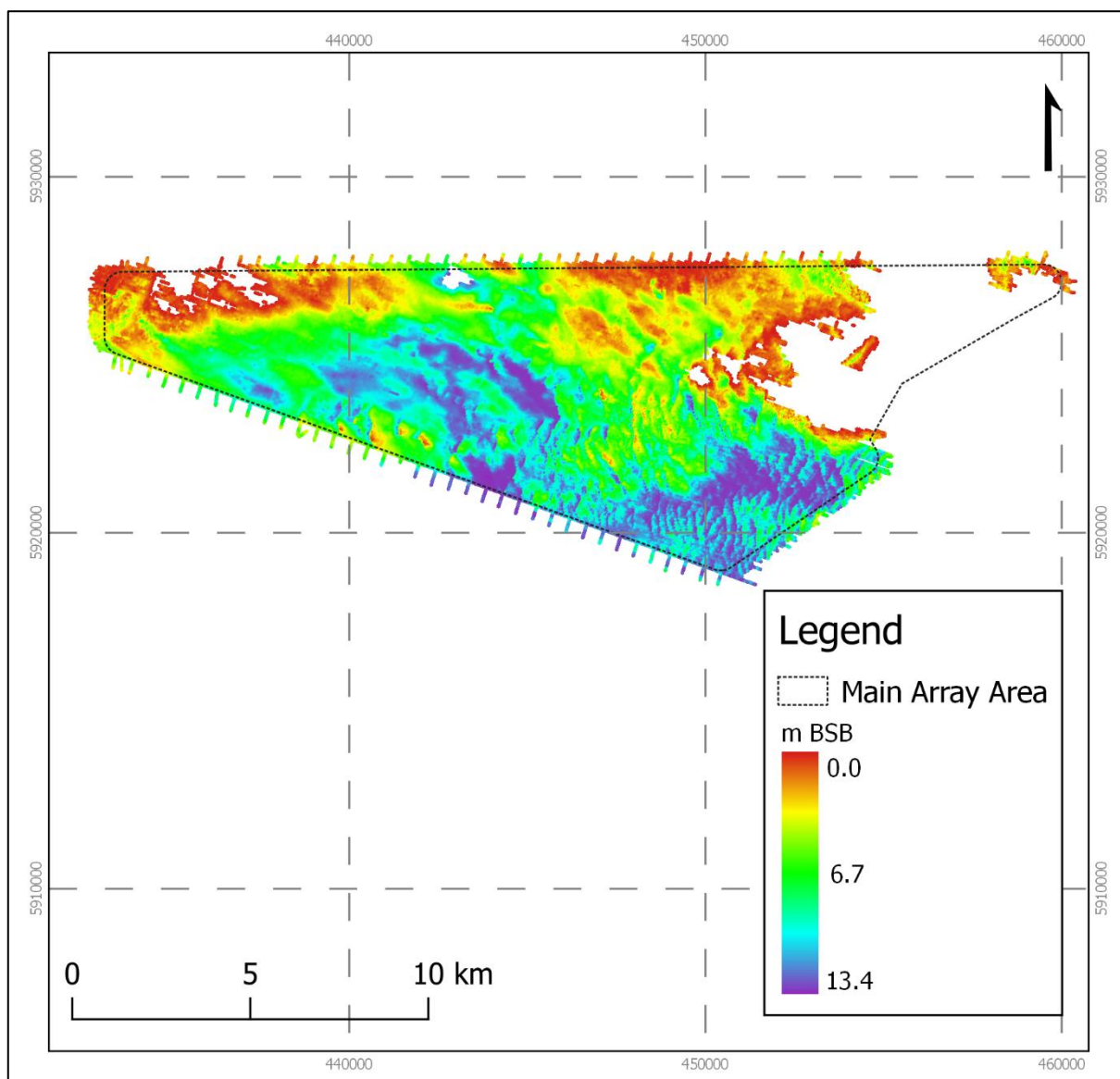


Figure 4.21: Western Irish Sea Upper unit depth below seabed (R03)

Further details of the R03 can be seen in the sediment isochore charts in Appendix H.

4.4.2.4 Western Irish Sea Lower Unit (R04)

The Western Irish Sea Lower base horizon was initially interpreted solely from the SBP data, but it often extended beyond the penetration depth. As a result, two interpretations have been generated; one from the SBP data, and one from the UHRS data.

4.4.2.4.1 Western Irish Sea Lower (SBP)

The base of the Western Irish Sea Lower is characterised on the SBP data by a discontinuous medium-amplitude reflector, which is often beyond the limit of the SBP penetration. The general seismic character of the WIS Lower is relatively blank, with high signal attenuation.

The WIS Lower is described within the Metmast C borehole as medium dense to dense, fine to coarse sand with occasional gravel and shell fragments, progressing into stiff, gravelly clay with cobbles. The thickness of the unit is observed up to 10.0 m in the west and the east of

the survey area as shown in Figure 4.22. The thickness of this unit tended to increase and decrease in bands running approximately north-south throughout the survey site.

Figure 4.22 shows the extent of the WIS Lower interpretation from the SBP data alone.

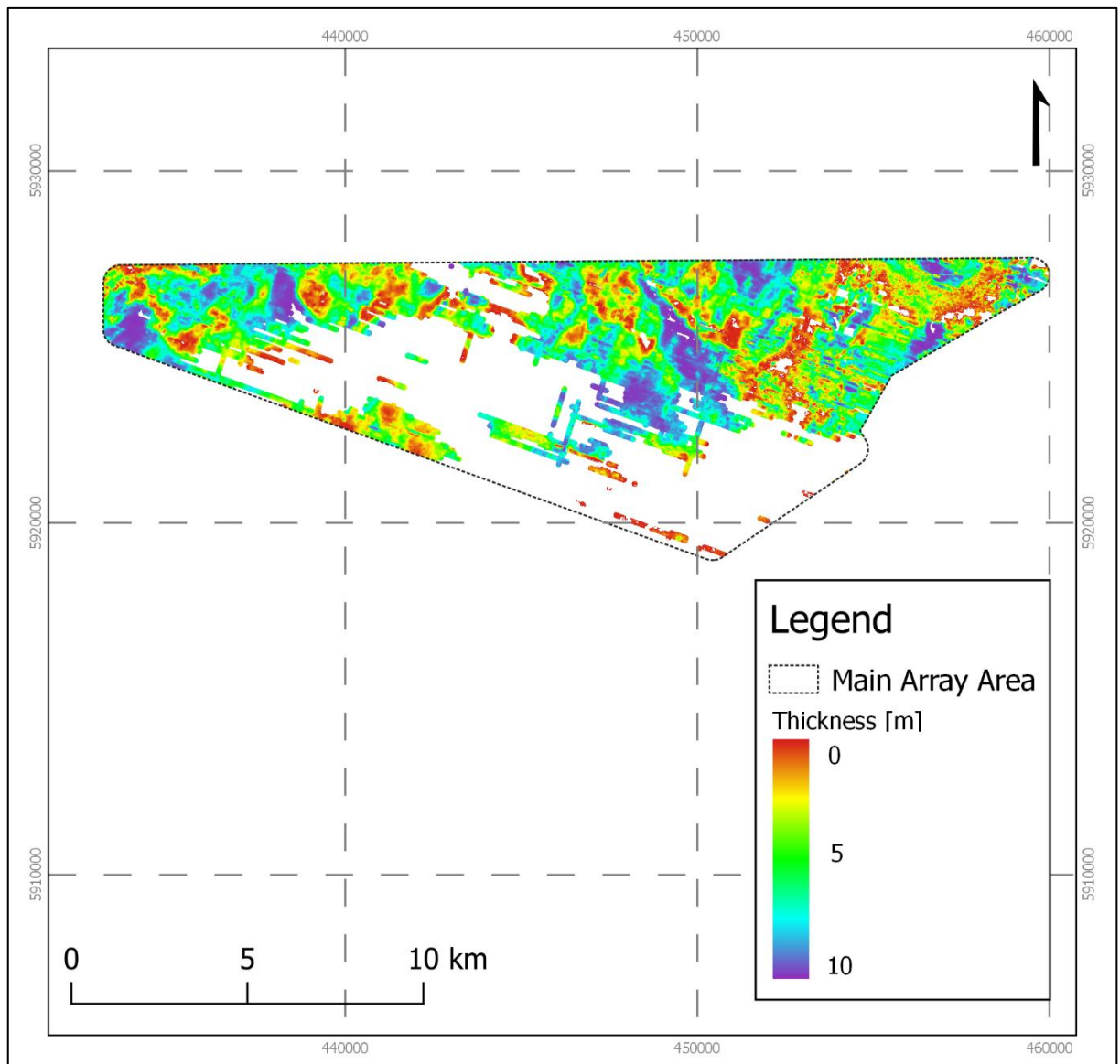


Figure 4.22: Western Irish Sea Lower unit thickness (R04)

The depth to the base of the unit ranges from 0.3 to 15.4 m BSB, although the R04 horizons is often beyond the limit of SBP penetration. As a result, the true maximum depth BSB cannot be determined from the SBP data alone. Figure 4.23 provides an overview of the base depth BSB across the Main Array site.

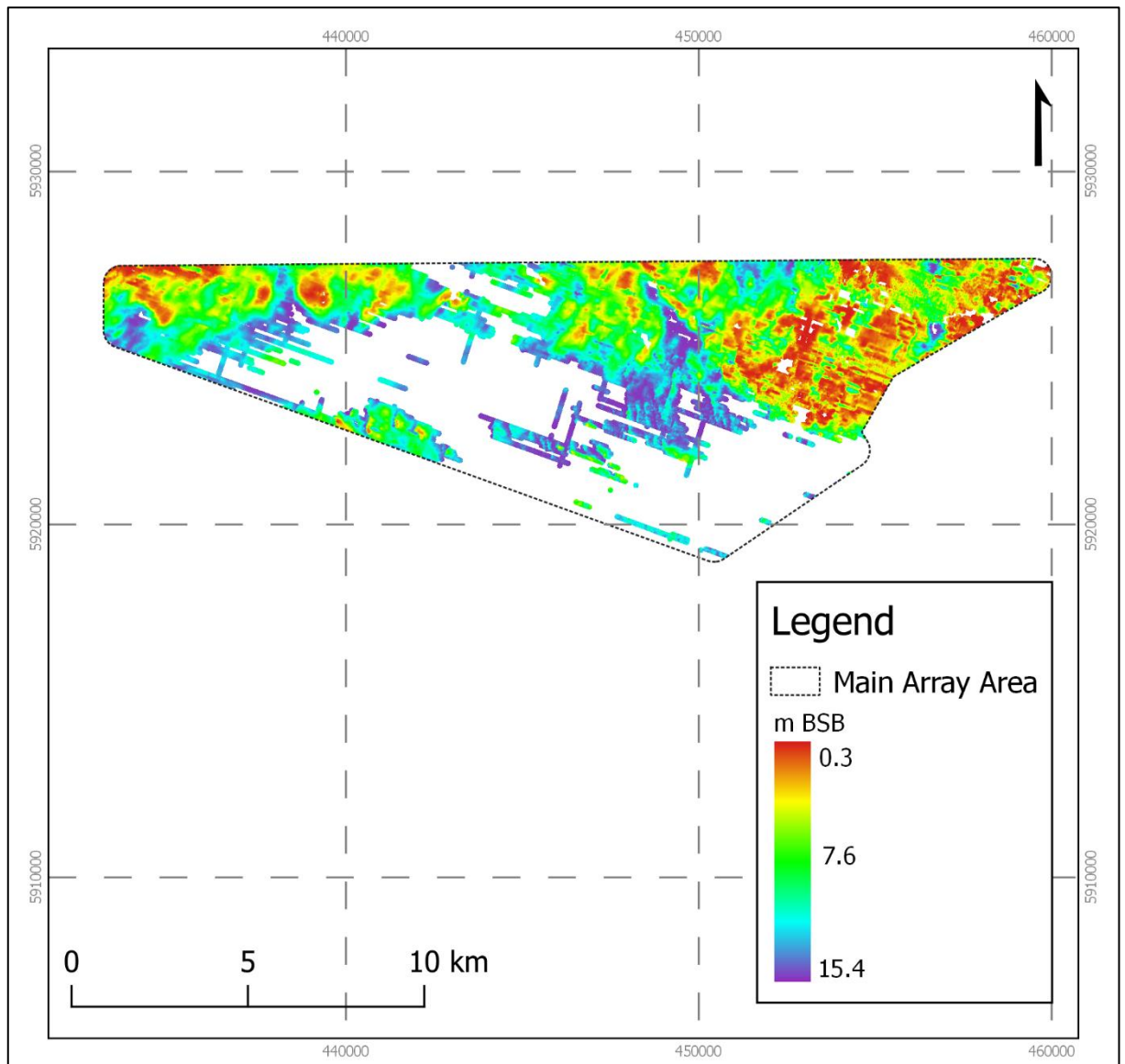


Figure 4.23: Western Irish Sea Lower unit depth below seabed (R04)

4.4.2.4.2 Western Irish Sea Lower Unit (UHRS)

To fill the gaps in the SBP interpretation grids, the UHRS data was used. As the UHRS interpretation highlighted unit tops, and the SBP interpretation highlighted bases, the top of the shallowest UHRS units also represented the base of the WIS formation. Figure 4.24 below provides a comparison of the SBP and UHRS data, with the R04 horizons annotated, to show the correlation between interpretations. Small differences are primarily due to the relative differences in vertical resolution.

The UHRS unit top horizons for R05, R06 and R07 were merged to provide a continuous horizon across the site, which represented the base of the WIS units.

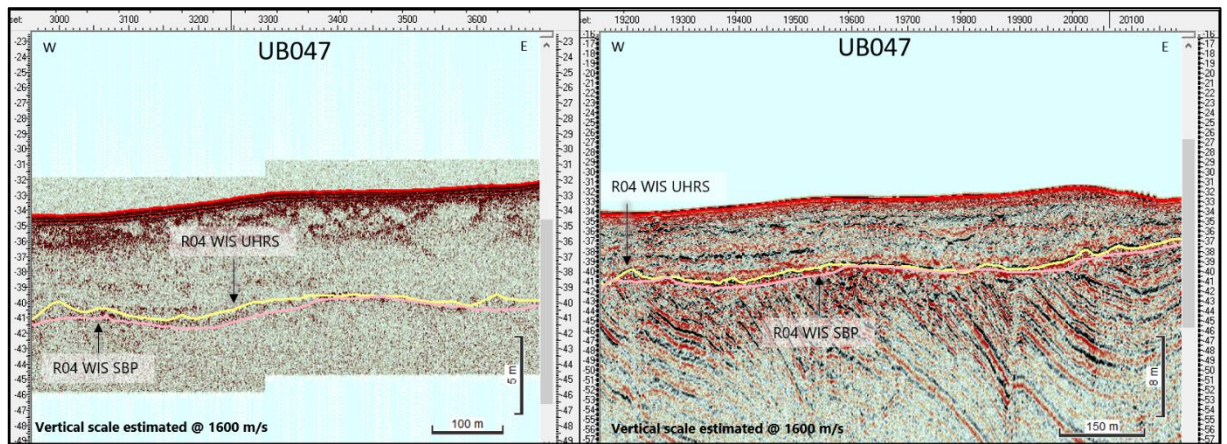


Figure 4.24: SBP and UHRS data example showing the correlation between the top UHRS horizon and the R04 WIS Lower from SBP

The thickness of the unit is observed up to 10.3 m, and the depth to the base of the unit ranges from 0 to 14.9 m BSB. Figure 4.25 and Figure 4.26 illustrate the thickness of the unit, and the depth to the base BSB respectively.

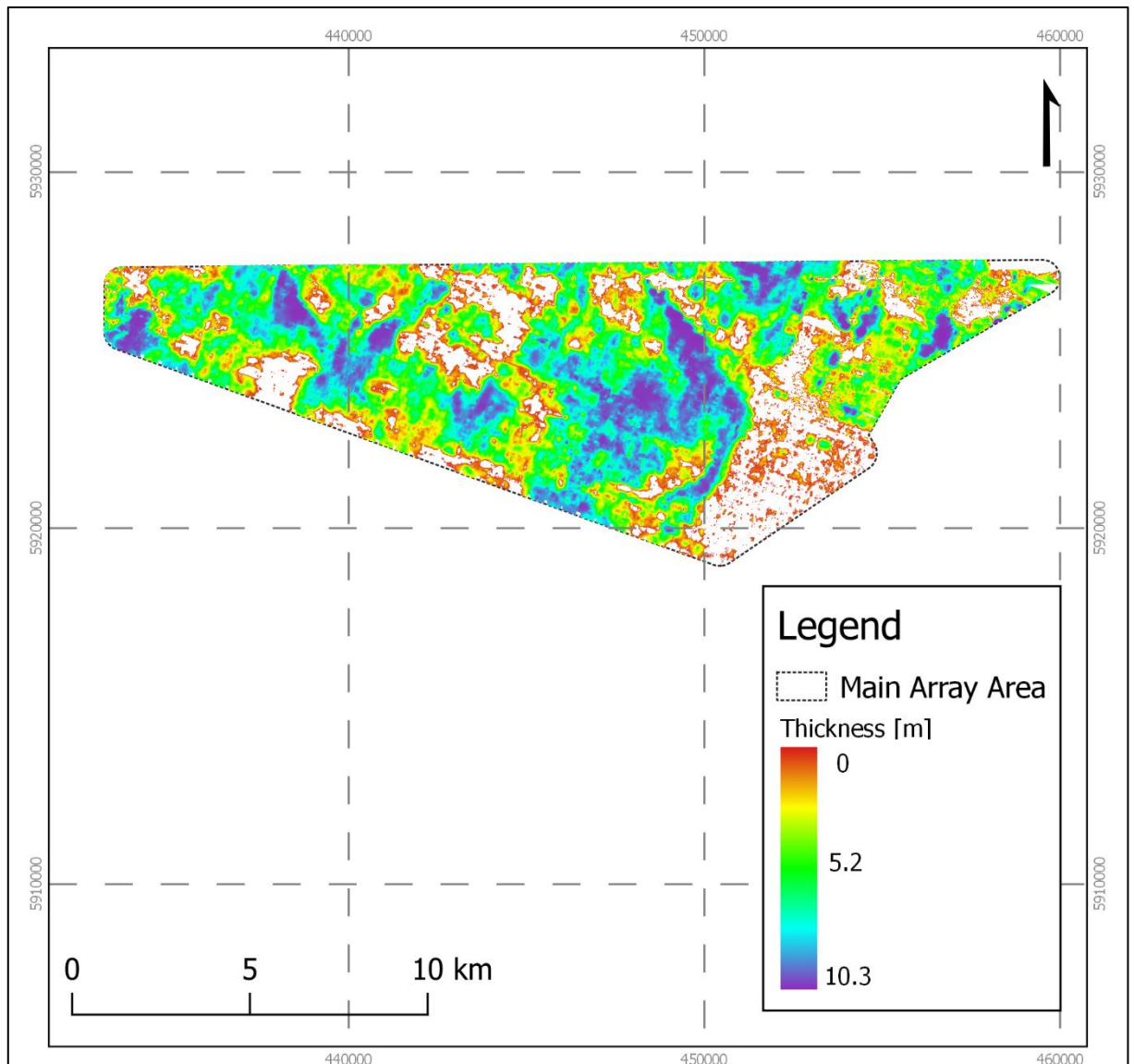


Figure 4.25: Western Irish Sea Lower unit thickness (R04 – UHRS)

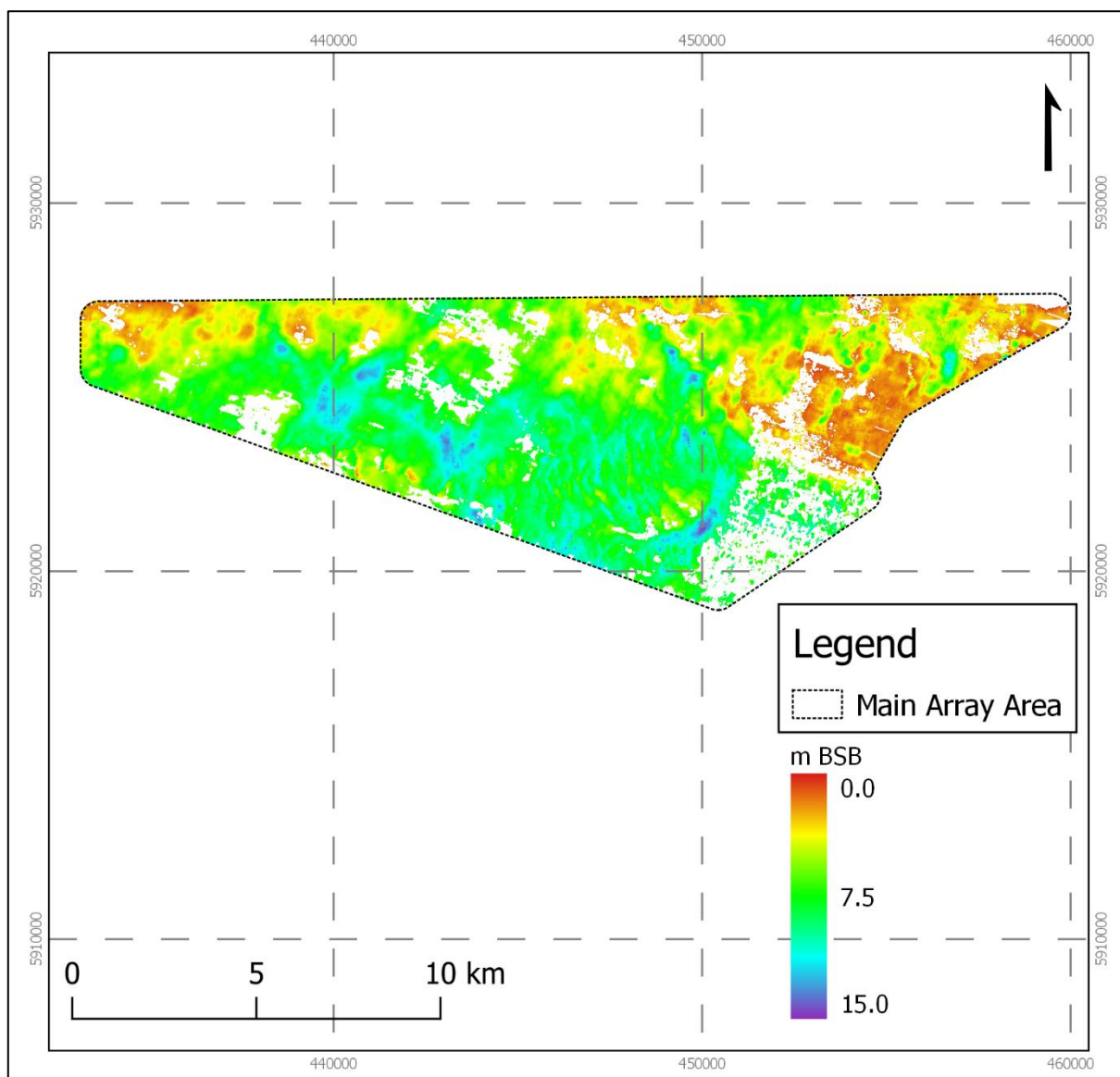


Figure 4.26: Western Irish Sea Lower unit depth below seabed (R04 – UHRS)

4.4.2.4.3 Western Irish Sea Lower Unit (Merged)

To ensure a continuous WIS Lower base surface was interpreted across the entire Main Array site, whilst maintaining the higher resolution information that the SBP provides, the SBP interpretation was merged with the UHRS interpretation.

When comparing the SBP and UHRS interpretations of the WIS lower base, there are some disagreements between the two datasets. Although some can be accounted for by the inherent differences in system resolutions and the difference in gridding distances, some are attributed to a level of uncertainty due to a relative lack of geotechnical information. Figure 4.27 below illustrates this, showing the UHRS data with the SBP and UHRS base WIS horizons annotated. In both cases, an argument can be made for the interpretation, and it was deemed incorrect to adjust either. Figure 4.27 below provides an example of this conflicting interpretation between the SBP and UHRS interpretations, and Figure 4.28 provides a difference map between the SBP and UHRS R04 surface. This highlights several isolated areas where the difference is significant, indicating the areas with the most uncertainty.

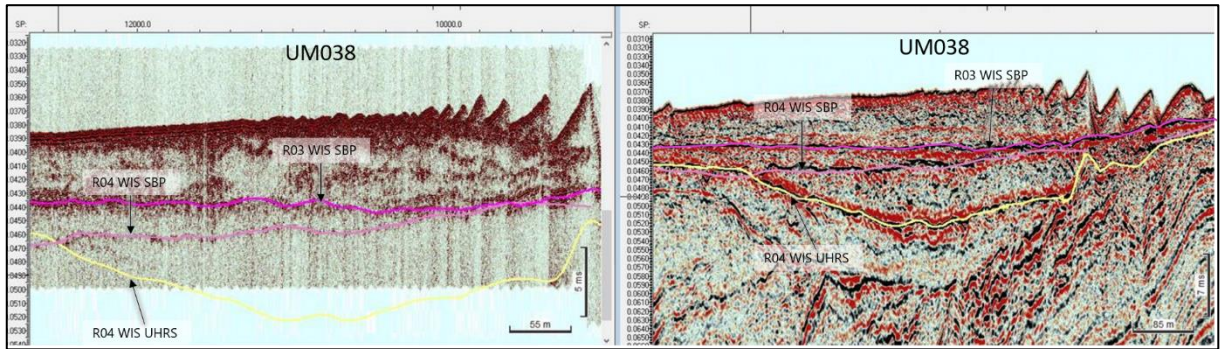


Figure 4.27: SBP and UHRS data example showing a difference in the R04 interpretation between the two datasets

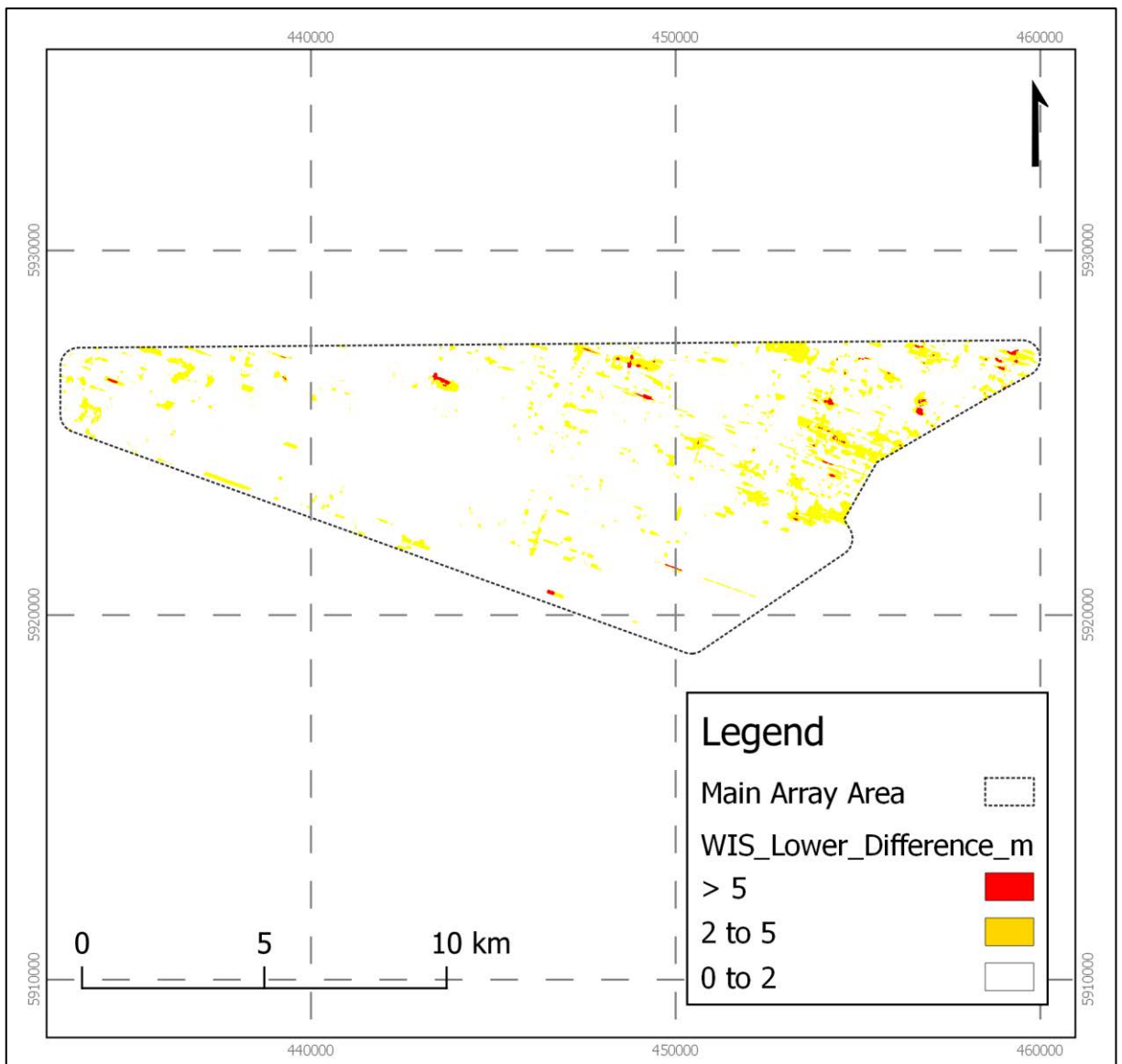


Figure 4.28: Difference grid between the SBP and UHRS interpretations of R04 WIS Lower base

4.5 Environmental Features

The survey in the main array comprised 62 grab sampling stations for macrofauna and particle size distribution analysis, including 10 stations for chemistry analysis. At 22 of these stations drop-down video data were successfully acquired.

From the analysis of these samples it's observed that seabed sediments across the main array survey area generally comprised sandy gravel, gravelly sand and sand.

For a detailed list of grab sample and video drop locations and results refer to the environmental report *003616051-01 Fugro – WPM 1 Main Array – Benthic Ecology Monitoring Report*.

5. Summary of Key Findings

The main findings arising from the geophysical survey data were:

- Across the Awel y Môr main array water depths ranged from 15.2 to 41.9 m below LAT;
- Seabed sediments within the main array consist of mostly sand with varying proportions of gravel;
- The east of the site has been characterised as sand, with multiple areas of sand waves;
- The west of the site has been characterised as sandy gravel, in line with the preliminary grab sample results;
- Seabed mobility was inferred from multibeam bathymetry to vary between 15 and 365 m per year;
- A total of 81 side scan sonar contacts ≥ 2 m were identified;
- A total of 1245 magnetic anomalies ≥ 5 nT peak-to-peak were identified;
- Four charted wrecks were observed on all datasets;
- The East-West Interconnector cable was identified running east to west along the southern edge of the main array survey area, and was identified on all datasets;
- Sub-bottom profiler interpretation identified four main Quaternary units.

6. Data Deliverables

The following deliverables can be found in the appendices of this report;

Table 6.1: Charts and drawings included in the report

Chart Type	Chart Title	Revision	Location
Bathymetry North UP	Colour Shaded Bathymetry - 01	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 02	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 03	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 04	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 05	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 06	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 07	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 08	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 09	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 10	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - 11	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - Overview_01	01	Appendix D
Bathymetry North UP	Colour Shaded Bathymetry - Overview_02	01	Appendix D
Seabed Characterisation	Array Seabed Characterisation - 01	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 02	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 03	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 04	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 05	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 06	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 07	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 08	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 09	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 10	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - 11	01	Appendix E
Seabed Characterisation	Array Seabed Characterisation - Overview_01	01	Appendix E

Chart Type	Chart Title	Revision	Location
Seabed Characterisation	Array Seabed Characterisation - Overview_02	01	Appendix E
SSS Mosaic	SSS Mosaic-01	01	Appendix F
SSS Mosaic	SSS Mosaic -02	01	Appendix F
SSS Mosaic	SSS Mosaic -03	01	Appendix F
SSS Mosaic	SSS Mosaic -04	01	Appendix F
SSS Mosaic	SSS Mosaic -05	01	Appendix F
SSS Mosaic	SSS Mosaic -06	01	Appendix F
SSS Mosaic	SSS Mosaic -07	01	Appendix F
SSS Mosaic	SSS Mosaic -08	01	Appendix F
SSS Mosaic	SSS Mosaic -09	01	Appendix F
SSS Mosaic	SSS Mosaic -10	01	Appendix F
SSS Mosaic	SSS Mosaic -11	01	Appendix F
SSS Mosaic	SSS Mosaic -Overview_01	01	Appendix F
SSS Mosaic	SSS Mosaic -Overview_02	01	Appendix F
R01 Sediment I	R01 Holocene Upper Sediment Isochore - 01	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 02	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore- 03	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 04	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 05	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore – 06	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 07	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 08	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 09	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 10	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore - 11	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore -Overview_01	01	Appendix G
R01 Sediment Isochore	R01 Holocene Upper Sediment Isochore -Overview_02	01	Appendix G
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 01	01	Appendix H

Chart Type	Chart Title	Revision	Location
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore - 02	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 03	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 04	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 05	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 06	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 07	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 08	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – 09	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore - 10	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore - 11	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – Overview_01	01	Appendix H
R03 Sediment Isochore	R03 West Irish Sea Upper Sediment Isochore – Overview_02	01	Appendix H
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 01	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 02	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 03	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 04	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 05	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 06	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 07	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 08	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 09	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 10	01	Appendix I

Chart Type	Chart Title	Revision	Location
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP - 11	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP – Overview_01	01	Appendix I
R04 Sediment Isochore – SBP	R04 West Irish Sea Lower Sediment Isochore SBP – Overview_02	01	Appendix I
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS – 01	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 02	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 03	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 04	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS – 05	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 06	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 07	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 08	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 09	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 10	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS - 11	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS – Overview_01	01	Appendix J
R04 Sediment Isochore – UHRS	R04 West Irish Sea Lower Sediment Isochore UHRS – Overview_02	01	Appendix J
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) – 01	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 02	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 03	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 04	01	Appendix K

Chart Type	Chart Title	Revision	Location
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) (Combined SBP and UHRS) – 05	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 06	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 07	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 08	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 09	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) (Combined SBP and UHRS) - 10	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) - 11	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) – Overview_01	01	Appendix K
R04 Sediment Isochore – (Combined SBP and UHRS)	R04 West Irish Sea Lower Sediment Isochore (Combined SBP and UHRS) – Overview_02	01	Appendix K

The following deliverables have been issued in digital format on HDD.

Table 6.2: Deliverables issued on HDD

Deliverable	File Type	Revision	Comment
MAG Contact List	CSV	01	-
MAG Contact List	SHP	01	
MAG Grids (AS, ALT, TF, RES)	FLT	01	-
MAG Oasis Montaj Project	-	01	-
MAG Processed Data	CSV	01	
MAG Raw Data	CSV	01	
MBES Fugro Point File (0.25 m)	XYZ	01	-
MBES Fugro Point File (1.00 m)	XYZ	01	-
SBP Contoured Isochore	SHP	01	-
SBP Interpreted Horizon Grids (Depth BSF)	XYZ	01	-
SBP Interpreted Horizon Grids (Depth LAT)	XYZ	01	-
SBP Interpreted Horizon Grids (Time BSF)	XYZ	01	-
SBP Interpreted Horizon Grids (Time LAT)	XYZ	01	-

Deliverable	File Type	Revision	Comment
SBP Processed Data	SEGY	01	-
SBP Raw Data	SEGY	01	-
SSS Contact List	CSV	01	-
SSS Contact List	SHP	01	-
SSS Contact Reports	PDF	01	-
SSS High Frequency Mosaic (0.1 m)	TIF	01	-
SSS Raw Data	XTF	01	-
SSS Seafloor Features (Points)	SHP	01	-
SSS Seafloor Features (Lines)	SHP	01	-
SSS Seafloor Features (Polygon)	SHP	01	-
SSS Seafloor Sediments	SHP	01	-
SSS Seafloor Morphology	SHP	01	-

7. Quality, Health, Safety and Environment

7.1 Quality Management

The survey was planned and carried out in conformance with Fugro GB Marine Limited's quality management system, which complies with the requirement of ISO 9001:2015. More detailed descriptions of specific survey techniques and procedures are contained within Fugro GB Marine Limited method statements procedures, numbers 8 and 9 (a component part of Fugro GB Marine Limited's QA manual - details of which can be viewed at the Fugro GB Marine Limited offices on request). For planning and operation purposes, a QA pack was incorporated into the front of every logbook detailing administrative duties which needed to be fulfilled and a detailed description of the survey setup, including a list of the main survey parameters. The logbook was filled in and formed a detailed record of all activities and events that occurred onboard.

Digital online logs were updated for each survey line. These included; date, time, line name, instrument setup parameters and also highlighted any unusual events or data quality issues. The performance of the survey instrumentation was constantly monitored by the online surveyor and online geophysicist. Any data quality issues were immediately highlighted and logged in the online logs. Upon review, remedial action would be performed, and a decision could then be made as to whether any reruns were required. The performance of the survey was also monitored by the offline processors soon after data acquisition.

Processing logs were maintained onboard the vessel and in the office. This allowed the progress of the processing to be monitored and the processing parameters used for each dataset to be detailed. Data storage, control and archiving of the data were undertaken in compliance with Fugro GB Marine Limited's data management policy.

Final quality control checks were carried out with care and due diligence prior to the delivery of this report.

7.2 Health, Safety and Environment

Fugro GB Marine Limited performed the survey operations with high regard for health and safety and the environment. A health, safety and environmental plan were completed prior to the start of the geophysical survey. These were produced in accordance with the company's health, safety and environmental management system manual. All survey and crew members were required to read and sign these plans, to ensure they understood the work to be performed and the mitigating measures employed to minimise the identified risks.

During mobilisation and at regular intervals thereafter, safety briefings and toolbox talks were conducted to reiterate the risks relating to survey operations and steps taken to minimise these risks. A full safety briefing was also undertaken after each crew change.

Upon joining the vessel all members of the crew were given a vessel safety induction tour by the chief officer. Vessel muster drills were performed at least every two weeks or each crew

change, depending on operations and weather. All crew were required to wear lifejackets, hardhats, safety boots, and gloves for all back-deck operations.

Following each potential HSE incident, steps would be taken to address any causative factors and to ensure that there would be no repeats of the circumstances resulting in the occurrence. Investigations by Fugro GB Marine Limited's QHSE Manager would be completed for each HSE incident, and procedures updated accordingly. Awareness of hazards amongst survey crew, vessel staff and management would be reinforced by briefings regarding any HSE incident.

Project HSE related information can be found in the operations report: *003621967-02 Fugro – WPM 1& WPM2 Acquisition and Operations Report – Fugro Mercator*.

Appendices

Appendix A Guidelines on Use of Report

Appendix B Contact Listing - SSS

Appendix C Contact Listing – Magnetometer Anomalies

Appendix D Charts – Colour Shaded Bathymetry North Ups

Appendix E Charts – Seabed Characterisation

Appendix F Charts – SSS Mosaics

Appendix G Charts – R01 Holocene Sediment Isochore

Appendix H Charts – R03 Western Irish Sea Upper Sediment Isochore

Appendix I Charts – R04 Western Irish Sea Lower Sediment Isochore (SBP)

Appendix J Charts - R04 Western Irish Sea Lower Sediment Isochore (UHRS)

Appendix K Charts - R04 Western Irish Sea Lower Sediment Isochore (Combined SBP and UHRS)

Appendix A

Guidelines on Use of Report

This report (the "Report") was prepared as part of the services (the "Services") provided by Fugro for its client (the "Client") and in accordance with the terms of the relevant contract between the two parties (the "Contract"). The Services were performed by Fugro in accordance with the obligations in the Contract and based on requirements of the Client set out in the Contract or otherwise made known by the Client to Fugro and any other information affecting the Services at the time; save that the extent to which Fugro relied on Client or third party information in carrying out the Services was set out in the Contract.

Fugro's obligations and liabilities to the Client or any other party in respect of the Services and this Report are limited to the extent and for the time period set out in the Contract (or in the absence of any express provision in the Contract as implied by the law of the Contract) and Fugro provides no other representation or warranty whether express or implied, in relation to the Services, or for the use of this Report, for any other purpose. Furthermore, Fugro has no obligation to update or revise this Report based on any future changes in conditions or information which emerge following issue of this Report unless expressly required by the provisions of the Contract.

The Services were performed by Fugro exclusively for the Client and any other party expressly identified in the Contract, and any use and/or reliance on the Report or the Services for purposes not expressly stated in the Contract, will be at the Client's sole risk. Any other party seeking to rely on this Report does so wholly at its own and sole risk and Fugro accepts no liability whatsoever for any such use and/or reliance."

Appendix B

Contact Listing - SSS

Target_ID	Easting_m	Northing_m	Length_m	Width_m	Height_m	Shadow_m	Interp	Comments
AyM_AR_SSS_00001	433803.2	5925358.8	2.3	0.5	0.3	1.7	Debris	
AyM_AR_SSS_00002	434820.4	5924607.2	2	0.7	0.2	2	Boulder	
AyM_AR_SSS_00003	435317.3	5927038.2	3.2	1.3	0.6	3.5	Debris	
AyM_AR_SSS_00004	435442.8	5924930.6	2	0.7	0.2	2.3	Boulder	
AyM_AR_SSS_00005	435933	5926842.2	2.3	0.8	0.2	1.8	Boulder	
AyM_AR_SSS_00006	436463.1	5924396.4	4.1	1.9	0.7	8	Debris	
AyM_AR_SSS_00007	437453.7	5924235.8	11.2	1.2	0.9	7.3	Boulder	
AyM_AR_SSS_00008	438696.4	5925639.6	3.3	1.9	0.4	4.2	Boulder	
AyM_AR_SSS_00009	438715.6	5926404.1	2	0.8	0.2	2	Boulder	
AyM_AR_SSS_00010	439404.2	5927096.9	4.8	1.8	0.4	4.2	Boulder	Within a depression
AyM_AR_SSS_00011	439710.1	5925178.8	2.1	0.3	0.3	2.3	Boulder	
AyM_AR_SSS_00012	440043	5924469.6	4	0.6	0.1	1.2	Debris	
AyM_AR_SSS_00013	440343.7	5926826.3	2.1	0.8	0.2	1.8	Boulder	
AyM_AR_SSS_00014	440352.2	5926831.4	2.1	0.7	0.2	1.9	Boulder	
AyM_AR_SSS_00015	440439.4	5922515.9	6	2.5	1.1	12.5	Boulder	
AyM_AR_SSS_00016	440447.9	5922516.4	14.2	3.8	1	10.2	Boulder	
AyM_AR_SSS_00017	440457.9	5922505.5	4.9	2.9	1.6	20.7	Boulder	
AyM_AR_SSS_00018	440512.3	5926304.5	32.8	9.4	2.5	26.4	Wreck	
AyM_AR_SSS_00019	440467.4	5922503.5	11.2	4.4	1.6	22.3	Boulder	
AyM_AR_SSS_00020	440520.1	5926305.6	2.5	1.6	0.6	5.2	Debris	
AyM_AR_SSS_00021	440525.2	5926253.5	20.2	1.7	4.7	21.4	Wreck	
AyM_AR_SSS_00022	440528	5926242.2	3.2	1.3	0.9	3.5	Debris	
AyM_AR_SSS_00023	440529.7	5926267.3	19.1	0.9	0.6	1.2	Debris	
AyM_AR_SSS_00024	441124.6	5926843.2	2.3	1	0.2	2	Boulder	
AyM_AR_SSS_00025	443096.7	5924231.3	4.5	1.7	0.4	2.1	Debris	
AyM_AR_SSS_00026	444425.5	5923316.7	2.2	0.6	0.6	1.6	Boulder	
AyM_AR_SSS_00027	444445.9	5922805.9	2.1	0.4	0.2	1.6	Boulder	
AyM_AR_SSS_00028	444460.8	5922739.5	2.1	0.3	0.2	0.9	Debris	
AyM_AR_SSS_00029	444577.8	5926979	2.1	0.3	0.2	1.1	Boulder	
AyM_AR_SSS_00030	445047	5923908.6	4.1	0.9	0.2	1.5	Debris	
AyM_AR_SSS_00031	445349.8	5922219.8	3.4	1	0.6	5.2	Boulder	
AyM_AR_SSS_00032	447058.6	5920843.3	2	0.7	0.4	3	Boulder	

Target_ID	Easting_m	Northing_m	Length_m	Width_m	Height_m	Shadow_m	Interp	Comments
AyM_AR_SSS_00033	447379.4	5923883.7	7.6	3	2.4	6.8	Wreck	
AyM_AR_SSS_00034	447413.3	5923860.2	17.7	7.1	2	8.5	Wreck	
AyM_AR_SSS_00035	447675.1	5926872.1	2.5	0.9	0.4	1.9	Debris	
AyM_AR_SSS_00036	448594.5	5926571.2	6.1	1	0.2	2.6	Debris	
AyM_AR_SSS_00037	449190.3	5922978.9	3.3	0.3	0.4	1.6	Debris	
AyM_AR_SSS_00038	450312.8	5921077.4	3.4	0.2	0.2	0.5	Debris	
AyM_AR_SSS_00039	450317.4	5921087.2	3.7	1.2	0.6	2.9	Debris	
AyM_AR_SSS_00040	450582.7	5920630.7	2.7	1.7	0.2	2.6	Boulder	
AyM_AR_SSS_00041	450594.7	5920748.1	2.6	1.1	0.5	2.3	Boulder	
AyM_AR_SSS_00042	451655.5	5927052.2	2.1	0.4	0.1	1.7	Boulder	
AyM_AR_SSS_00043	452332.6	5923003.1	2	0.6	0.4	1.9	Boulder	
AyM_AR_SSS_00044	452877.3	5921175.2	3.9	0.4	0.2	0.7	Debris	
AyM_AR_SSS_00045	452910.6	5921424.1	41.2	0.5	0.1	0.9	Linear Debris	
AyM_AR_SSS_00046	452924.5	5921409.7	22	0.5	0.1	0.9	Linear Debris	
AyM_AR_SSS_00047	453356.1	5925734.8	2.1	0.5	0.3	2.6	Boulder	
AyM_AR_SSS_00048	453771.7	5924373	2	0.9	0.3	1.7	Boulder	
AyM_AR_SSS_00049	454105.7	5923572.9	3.3	0.8	0.3	2.5	Debris	
AyM_AR_SSS_00050	454124.3	5924868.8	9	0.1	0.1	0.4	Linear Debris	
AyM_AR_SSS_00051	454140.8	5924871.8	3.8	0.1	0.1	0.4	Linear Debris	
AyM_AR_SSS_00052	454360.5	5926063	4.3	2	0.6	8	Boulder	
AyM_AR_SSS_00053	454458	5922060	5.2	2	0.5	3.8	Boulder	
AyM_AR_SSS_00054	454621.7	5921992.7	8.4	4.5	1.2	14.4	Boulder	
AyM_AR_SSS_00055	454690.4	5921992.9	10.9	3.1	1.2	4.3	Mound	
AyM_AR_SSS_00056	454709.9	5921992.9	11.3	4.2	1.7	5.4	Mound	
AyM_AR_SSS_00057	455030.2	5924982	3.7	1.1	0.4	3.3	Debris	
AyM_AR_SSS_00058	455040.6	5924964.1	2.3	0.6	0.2	2.1	Boulder	
AyM_AR_SSS_00059	455047.3	5924981.8	2	0.7	0.2	1.7	Boulder	
AyM_AR_SSS_00060	455067	5923609.5	2.1	0.5	0.1	0.7	Boulder	
AyM_AR_SSS_00061	455085.9	5924946.6	2.6	0.9	1	11.3	Boulder	
AyM_AR_SSS_00062	455083.6	5923608.9	2	0.7	0.2	1.5	Boulder	
AyM_AR_SSS_00063	455105.3	5925659.6	2.2	0.8	0.1	1.2	Debris	
AyM_AR_SSS_00064	455098.2	5923567.8	2.1	0.6	0.5	1.4	Boulder	

Target_ID	Easting_m	Northing_m	Length_m	Width_m	Height_m	Shadow_m	Interp	Comments
AyM_AR_SSS_00065	455115	5924157.7	4.3	0.3	0.2	1.7	Linear Debris	
AyM_AR_SSS_00066	455271.9	5925492.9	2.2	0.3	0.1	0.8	Debris	
AyM_AR_SSS_00067	455282.5	5925498.4	3.2	0.3	0.1	1.3	Debris	
AyM_AR_SSS_00068	455284.6	5925481	3	0.7	0.1	1.2	Debris	
AyM_AR_SSS_00069	455335.8	5924844.5	2.2	0.5	0.5	5.4	Boulder	
AyM_AR_SSS_00070	455440.2	5924259.8	2	1	0.2	2.2	Boulder	
AyM_AR_SSS_00071	455512.6	5925022.5	2.1	0.9	0.3	3.6	Boulder	
AyM_AR_SSS_00072	455541.6	5925030.9	2.1	0.5	0.8	1.5	Boulder	
AyM_AR_SSS_00073	455546.2	5925399.4	2.1	0.4	0.2	1.8	Debris	
AyM_AR_SSS_00074	455582.8	5927253.6	2.1	0.3	0.1	1.2	Debris	
AyM_AR_SSS_00075	455774	5925749.4	2.2	0.6	0.4	2.7	Boulder	
AyM_AR_SSS_00076	456277.2	5926972	29.4	6	2.8	37.5	Wreck	
AyM_AR_SSS_00077	457030.6	5927133.6	2	0.5	0.1	1.3	Boulder	
AyM_AR_SSS_00078	457718.3	5925775.8	2	0.7	0.7	6.3	Boulder	
AyM_AR_SSS_00079	457781	5927343.1	2.3	0.5	0.3	2.2	Boulder	
AyM_AR_SSS_00080	457901.4	5927358.4	59.9	9.2	1	9.6	Wreck	
AyM_AR_SSS_00081	459253.6	5927200.6	2.1	0.6	0.5	3.9	Boulder	

Appendix C

Contact Listing – Magnetometer
Anomalies

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0001	433129	5926553	2.1	49274	6.2	16.7	3.4	-6.4	Negative
AyM_AR_MAG_0002	433227	5927060	1.5	49300.3	5.8	32.5	4.5	-2.7	Dipole
AyM_AR_MAG_0003	433433.5	5926831.2	2.1	49307.9	5.9	17.7	3.1	6.6	Positive
AyM_AR_MAG_0004	433497	5926181	8	49277.4	29.6	33.3	4.2	-23.8	Negative
AyM_AR_MAG_0005	433547	5926477	9.1	49269.9	32.9	31.6	4.2	-12	Dipole
AyM_AR_MAG_0006	433565	5925254	241.8	49897.3	739	55.5	4.4	699.1	Cable
AyM_AR_MAG_0007	433597	5925242	90	49535.7	273	77.6	5.3	257.9	Cable
AyM_AR_MAG_0008	433871.7	5925035.2	3.4	49294.6	16.9	19.9	3.6	0.3	Dipole
AyM_AR_MAG_0009	433949	5927276	3.2	49294.7	8.8	29.8	4.3	-7.8	Negative
AyM_AR_MAG_0010	433996	5925072	2.8	49237	10.9	38.7	4.4	7.8	Cable
AyM_AR_MAG_0011	434000	5925070	2	49236	11.8	12.7	4.4	6.9	Cable
AyM_AR_MAG_0012	434033	5925057	17.5	49213.2	219.4	51.2	4.1	-6.1	Cable
AyM_AR_MAG_0013	434036	5925067	277.8	49939.5	827.8	58	4.3	733.3	Cable
AyM_AR_MAG_0014	434092	5925196.3	4.7	49302.3	19.4	24.1	3.8	0.1	Positive
AyM_AR_MAG_0015	434123.6	5927281.3	7.8	49295.2	33.5	31	4	-6.8	Dipole
AyM_AR_MAG_0016	434130	5925023	4.6	49264.8	14.3	38.7	4	-9.7	Cable
AyM_AR_MAG_0017	434146	5925016	4.2	49339.2	19.3	51.8	4.2	-12.9	Cable
AyM_AR_MAG_0018	434156	5925013	5	49349.1	22.3	25.8	4.4	0.4	Cable
AyM_AR_MAG_0019	434156	5926560	3	49307	9.9	19.1	3.1	4.2	Dipole
AyM_AR_MAG_0020	434189	5925002	5.5	49518.5	30.2	24.8	3.9	-8.8	Cable
AyM_AR_MAG_0021	434208	5924996	10.1	49747.9	39.7	34.6	4.2	-23.7	Cable
AyM_AR_MAG_0022	434216	5925378	3.9	49291	11.8	13.9	3.5	-9	Negative
AyM_AR_MAG_0023	434232	5924988	23.4	49988.1	87.9	50.5	4.2	54.6	Cable
AyM_AR_MAG_0024	434260	5924977	17.2	50141.6	73.5	32.6	3.9	22.3	Cable
AyM_AR_MAG_0025	434284	5924967	9.1	50106.8	35.4	36.7	3.9	1.6	Cable
AyM_AR_MAG_0026	434302.4	5927217.5	2.1	49297.5	5.2	13.4	4.2	-4.9	Negative
AyM_AR_MAG_0027	434308	5924957	7.4	49894.5	23.7	36.5	4.2	-11.5	Cable
AyM_AR_MAG_0028	434356	5924941	9.7	49418.7	24.6	12.7	4.5	2.7	Cable
AyM_AR_MAG_0029	434379	5924932	27.9	49354.1	92.9	38.2	4	-62.5	Cable
AyM_AR_MAG_0030	434405	5924923	11.5	49374.7	25.4	38	4	-22.8	Cable
AyM_AR_MAG_0031	434411.2	5926250.3	1.3	49299.5	5.2	37.3	3.7	5.2	Positive
AyM_AR_MAG_0032	434417	5924918	12.1	49329.2	40.5	25.6	3.8	-20.3	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0033	434435	5924913	14	49379.1	38.6	37.9	4.1	28.7	Cable
AyM_AR_MAG_0034	434458	5924905	7.4	49266.1	19.6	25.4	4.2	17.8	Cable
AyM_AR_MAG_0035	434497	5926913	4.2	49278.9	11.6	10.6	3.7	-9.9	Negative
AyM_AR_MAG_0036	434500	5924882	107.2	49542.5	260.1	49.2	3.8	267.8	Cable
AyM_AR_MAG_0037	434532.8	5926899.3	53.8	49375.3	176.7	24.2	3.2	91.8	Complex
AyM_AR_MAG_0038	434698.8	5925516.8	1.4	49310.3	5.2	53	3.8	2.8	Dipole
AyM_AR_MAG_0039	434703	5927295	43.1	49366.8	161.6	40.2	2.8	64.6	Complex
AyM_AR_MAG_0040	434736	5924805	3.7	49232	11.1	26.5	3.9	4.9	Cable
AyM_AR_MAG_0041	434811.5	5926326.7	1.9	49308.4	5.3	18.7	3.7	3.5	Dipole
AyM_AR_MAG_0042	434884	5926619	1.9	49304	5.1	13	3.9	4.8	Positive
AyM_AR_MAG_0043	434970	5924695	340.9	50108.5	985.6	75.4	3.4	915	Cable
AyM_AR_MAG_0044	435089	5925079	1.4	49296.2	5.9	27.3	4	0.6	Dipole
AyM_AR_MAG_0045	435089	5926756	34.1	49365	177.2	79.9	4.3	67.4	Dipole
AyM_AR_MAG_0046	435094	5925606	2.4	49311.1	12.6	27.3	3.9	5	Dipole
AyM_AR_MAG_0047	435095.4	5925213.2	2.3	49294.1	5.7	20.9	4.1	5.7	Positive
AyM_AR_MAG_0048	435107	5925054	6.5	49282.4	24.2	30.4	4.1	-17.4	Negative
AyM_AR_MAG_0049	435107.9	5925913	4.1	49276.5	15.4	34.5	4.1	-10.7	Dipole
AyM_AR_MAG_0050	435120	5926782	1.5	49281.3	5.7	15.5	3.4	0.1	Dipole
AyM_AR_MAG_0051	435329.5	5927067.8	2.9	49299.7	7.2	11.6	3.1	-7.1	Negative
AyM_AR_MAG_0052	435334.8	5926849.4	2.5	49307	8.8	18.6	4	3.7	Dipole
AyM_AR_MAG_0053	435368	5924872	3.3	49305.7	8.4	53.8	4.1	8.3	Positive
AyM_AR_MAG_0054	435370.3	5926124.2	2.3	49308.2	6.9	15.7	3.7	3.4	Dipole
AyM_AR_MAG_0055	435429.5	5925562.8	4	49311.5	10	25.3	4	11.2	Positive
AyM_AR_MAG_0056	435434	5924509	399.6	50129.9	900.7	69.8	3.5	915.9	Cable
AyM_AR_MAG_0057	435457.5	5926850.2	4.5	49290.8	13.6	33.4	4.2	-11.7	Dipole
AyM_AR_MAG_0058	435538	5926696	7.7	49276	21.4	47.5	4.6	-24.2	Negative
AyM_AR_MAG_0059	435612	5926037	4.7	49311.1	17.1	43.6	3.1	6.6	Dipole
AyM_AR_MAG_0060	435690.1	5926090.8	8.7	49306.6	19.6	15.9	3.7	19.7	Positive
AyM_AR_MAG_0061	435799	5925510	7.2	49313.1	21.2	27.2	4.3	19.5	Positive
AyM_AR_MAG_0062	435818.3	5924254.8	2.4	49274.7	8.1	10	4	0.4	Dipole
AyM_AR_MAG_0063	435828	5924661	2.3	49297.7	5.4	11.7	2.9	-5	Negative
AyM_AR_MAG_0064	435876.5	5925939.7	3.9	49312.4	7.4	11	2.8	7.1	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0065	435897	5924325	193.4	49784.9	495	80	4.3	541.7	Cable
AyM_AR_MAG_0066	435953.9	5926620.1	2.5	49296.7	5.8	12.1	3.9	-5.3	Negative
AyM_AR_MAG_0067	435962.8	5924980	4.9	49290.3	26	33.9	4	-0.2	Dipole
AyM_AR_MAG_0068	436000	5926990	1.1	49300.9	5.5	21.5	3.9	-0.5	Dipole
AyM_AR_MAG_0069	436041.1	5925174.9	8.7	49331.7	25.6	21.2	3.8	22.4	Positive
AyM_AR_MAG_0070	436110	5924227	1.2	49156.1	6.4	28	3.9	-4.4	Cable
AyM_AR_MAG_0071	436206	5924191	3.2	49143.4	8.1	22.9	3.8	17.2	Cable
AyM_AR_MAG_0072	436222	5924185	3.2	49120.6	11.4	22.9	3.8	-6.2	Cable
AyM_AR_MAG_0073	436239	5924179	3.5	49135.2	9.9	23.4	4.1	10.5	Cable
AyM_AR_MAG_0074	436260.2	5924418	5.1	49307.5	17.7	19.4	3.6	0.4	Dipole
AyM_AR_MAG_0075	436269.4	5924166.5	5.3	49141.6	51.5	57.3	4.2	-2.6	Cable
AyM_AR_MAG_0076	436306.3	5924155.3	12.9	49077.6	97.4	34.3	3.7	-29.3	Cable
AyM_AR_MAG_0077	436313	5925167	1.6	49307.2	5.2	20	3.9	-2.3	Dipole
AyM_AR_MAG_0078	436331	5924146	2.7	49172.1	13.1	23.1	3.7	-1	Cable
AyM_AR_MAG_0079	436355.8	5924140.1	26.2	49307.2	116.4	53	4.6	49.7	Cable
AyM_AR_MAG_0080	436387.5	5924126.3	11.5	49253.7	64.5	42.9	4.4	72.8	Cable
AyM_AR_MAG_0081	436402	5924120	8.1	49254.6	35.9	46.4	4.4	-19.5	Cable
AyM_AR_MAG_0082	436431	5924111	36.1	49394.2	147.6	68.9	4.2	-98.8	Cable
AyM_AR_MAG_0083	436453	5924103	11.6	49926	34.3	34.2	4.4	27.3	Cable
AyM_AR_MAG_0084	436471	5924097	3.1	49992.6	9.6	19.9	4.4	-5.4	Cable
AyM_AR_MAG_0085	436502	5924085	27.7	50172.6	121.5	23.9	4.4	122.6	Cable
AyM_AR_MAG_0086	436526	5924078.2	11.9	50051.6	108.8	41.4	4.5	17.4	Cable
AyM_AR_MAG_0087	436528	5925865	3.4	49309	13.1	42.3	3.8	2.2	Dipole
AyM_AR_MAG_0088	436554.3	5924067.6	10.5	49819.4	29	46.1	4.3	-17.8	Cable
AyM_AR_MAG_0089	436589	5924976	2.2	49306.6	7	18.7	3.6	-4.2	Dipole
AyM_AR_MAG_0090	436593	5926767	2.3	49307.3	6.8	20.2	4.3	6.1	Positive
AyM_AR_MAG_0091	436595	5924053	7.1	49771.1	24.5	47.8	4.6	15.9	Cable
AyM_AR_MAG_0092	436614.4	5924046.5	6.5	49679	34.8	21.6	4.5	31.8	Cable
AyM_AR_MAG_0093	436621.8	5924507.5	3.3	49294.3	8.3	16	4.3	-8.7	Negative
AyM_AR_MAG_0094	436624	5924741	4.4	49294.3	15.9	21.6	3.9	2.5	Dipole
AyM_AR_MAG_0095	436630.4	5927320.1	2.6	49315.6	6.2	11.8	3.8	6.3	Positive
AyM_AR_MAG_0096	436641	5926680	1.2	49298.2	6.8	21.5	3.4	0.1	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0097	436644	5924036	8.1	49480.6	55.4	57.8	4.4	27.6	Cable
AyM_AR_MAG_0098	436654.9	5924650.6	2.1	49295.4	7.4	64.6	4	2.3	Dipole
AyM_AR_MAG_0099	436664.9	5925274.3	2.8	49280.7	9.7	14.7	3.6	-3.9	Dipole
AyM_AR_MAG_0100	436674.8	5925035.7	7.8	49326.9	19.5	22.4	3.9	18.6	Positive
AyM_AR_MAG_0101	436732.9	5924004.3	2.6	49284.2	10.8	13.7	4.5	-0.2	Cable
AyM_AR_MAG_0102	436787.3	5923985.1	3.6	49249.8	9.7	10.5	4.5	9.9	Cable
AyM_AR_MAG_0103	436788.5	5924838	2.1	49292.7	9.1	25.5	3.6	-3.5	Complex
AyM_AR_MAG_0104	436803	5924831	3.6	49314.6	9.1	40.8	3.6	5	Dipole
AyM_AR_MAG_0105	436832	5923952	326.1	50000.9	761.6	57.9	4.3	755.7	Cable
AyM_AR_MAG_0106	436856	5924029	3.3	49315.9	10.9	23.4	3.7	12	Positive
AyM_AR_MAG_0107	436942	5925965	2.1	49309.7	10.6	36.3	4.6	1.2	Dipole
AyM_AR_MAG_0108	436974	5925328	3.1	49313.5	7.2	10.9	2.9	6.6	Positive
AyM_AR_MAG_0109	436981	5924691	11.3	49332.3	38.8	31	4.2	21.4	Dipole
AyM_AR_MAG_0110	436994.4	5925320.9	6.1	49312.8	17.1	16.1	2.9	5.9	Dipole
AyM_AR_MAG_0111	437003	5926706	1.2	49284.6	7.1	23.3	3.3	-0.5	Dipole
AyM_AR_MAG_0112	437044.5	5923891.6	1.5	49255.6	5.9	12.1	4.8	-0.3	Dipole
AyM_AR_MAG_0113	437058	5925758	10.7	49337.2	28.4	29.5	4.1	32.5	Positive
AyM_AR_MAG_0114	437077.8	5925291.6	3.3	49313.4	6.8	9.4	2.6	6.7	Positive
AyM_AR_MAG_0115	437091	5924652	14.6	49311.9	58.8	27	3.9	1	Dipole
AyM_AR_MAG_0116	437153	5927190	2.4	49315.2	7.2	17.1	4	6.7	Positive
AyM_AR_MAG_0117	437158	5925638	2.7	49311.5	8	26.4	3.7	5.1	Dipole
AyM_AR_MAG_0118	437158	5925096	4.5	49284.3	16.3	21.7	3.4	-1.7	Dipole
AyM_AR_MAG_0119	437290	5926760	39.9	49245.9	153.3	68.3	3.7	-60.7	Dipole
AyM_AR_MAG_0120	437299	5923766	102.1	49571.6	309.9	51.7	3.8	291.8	Cable
AyM_AR_MAG_0121	437351.7	5923928.4	10.7	49290.5	29.1	19.9	3.4	-20.4	Dipole
AyM_AR_MAG_0122	437368	5924787	6.7	49320.3	28	31.5	3.9	12.1	Positive
AyM_AR_MAG_0123	437380.6	5925250	5	49280	22	30.1	3.9	-13.3	Dipole
AyM_AR_MAG_0124	437426.9	5926090.8	1.9	49301.4	6.7	16.4	3.9	-1.7	Dipole
AyM_AR_MAG_0125	437471	5925367	2.8	49300.3	7.1	12.6	2.8	-6.8	Negative
AyM_AR_MAG_0126	437482.7	5924065.3	2.2	49298.9	5	18.6	3.3	-5.7	Negative
AyM_AR_MAG_0127	437679	5924971	1.4	49315.8	6.6	27	4.1	3.4	Positive
AyM_AR_MAG_0128	437693	5923988	2.5	49301.8	7.6	18.1	3.5	-2.5	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0129	437759	5923582	7.3	49278.3	21.6	35	3.9	-21.8	Negative
AyM_AR_MAG_0130	437772	5926942	1.9	49306.4	5.7	19.2	4.2	-2.7	Dipole
AyM_AR_MAG_0131	437858.3	5925626.3	1.9	49296.6	6.6	28.7	4	3	Dipole
AyM_AR_MAG_0132	437921	5927172	8	49305.2	19.5	17.7	2.9	19.1	Positive
AyM_AR_MAG_0133	437953	5924033	5.3	49318.5	13.4	17.5	3.8	13.2	Positive
AyM_AR_MAG_0134	438071	5925709	7.7	49297.4	22.4	19.6	3.3	16.4	Positive
AyM_AR_MAG_0135	438092.1	5927179.9	1.7	49295.7	6.2	22.6	3.8	-1.3	Dipole
AyM_AR_MAG_0136	438102.6	5926175.2	4.2	49311.6	14.1	19.3	3.9	5.7	Dipole
AyM_AR_MAG_0137	438123.4	5926297.6	1.9	49288.1	6	14.3	3.5	1.6	Dipole
AyM_AR_MAG_0138	438175	5926593	2.4	49313	5.9	20	3.7	6.3	Positive
AyM_AR_MAG_0139	438181.5	5926439.4	1.7	49307.7	7.5	30.2	4.5	2.8	Dipole
AyM_AR_MAG_0140	438185	5926580	2	49308	5	27.3	4.4	-5.2	Negative
AyM_AR_MAG_0141	438205	5925809	30.8	49232.6	63.9	17.9	3.3	-65.7	Negative
AyM_AR_MAG_0142	438229	5923395	12.1	49275.2	31.2	43.1	4.1	-30.4	Cable
AyM_AR_MAG_0143	438232.3	5926191.3	2.3	49313.8	7.9	44.5	3.9	9.3	Dipole
AyM_AR_MAG_0144	438241	5923378	1.7	49395.8	6.3	25.4	4	1.6	Cable
AyM_AR_MAG_0145	438256	5923373	2.1	49402.2	6.9	37.6	4.1	7.6	Cable
AyM_AR_MAG_0146	438293	5923359	2.8	49388.1	11.3	28.7	4.3	-10.9	Cable
AyM_AR_MAG_0147	438311	5924446	14.4	49344.1	39.7	21.2	4.3	36.4	Positive
AyM_AR_MAG_0148	438314.4	5923900.3	3.7	49304	12.8	17.8	3.7	-0.1	Dipole
AyM_AR_MAG_0149	438318	5923349	3.1	49405.4	20.9	16.5	4.4	-2.9	Cable
AyM_AR_MAG_0150	438319	5926874	1.5	49307.3	5.2	19.4	4.7	4.8	Positive
AyM_AR_MAG_0151	438330	5923345	3.1	49419.3	14	23.4	4.3	3.4	Cable
AyM_AR_MAG_0152	438344	5925431	4.3	49296.5	15.5	24.9	4.2	-3.8	Dipole
AyM_AR_MAG_0153	438349	5923337	1.8	49373.9	6.8	16.5	4.4	-2.5	Cable
AyM_AR_MAG_0154	438366	5927311	3.4	49271.3	9.7	41.2	4.2	-9.6	Negative
AyM_AR_MAG_0155	438383	5923325	1.2	49307.2	7.2	15	4.4	-1.8	Cable
AyM_AR_MAG_0156	438392	5923910	2.4	49303	7	22.8	3.4	-1.6	Dipole
AyM_AR_MAG_0157	438423.5	5923311.1	7.3	49304.2	27.3	92.2	4.8	-59.6	Cable
AyM_AR_MAG_0158	438424	5927346	9	49293.1	22	33.4	4	-20.3	Negative
AyM_AR_MAG_0159	438480	5923291	21.4	49486.8	114	140.9	4.2	42.3	Cable
AyM_AR_MAG_0160	438533	5923270	7	48826.5	27.9	49.8	4	-26.5	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0161	438561	5923261	21.8	48538.7	70.5	86.5	3.7	-62.4	Cable
AyM_AR_MAG_0162	438590	5923250	46.7	48937	111.2	60.3	4.3	163.3	Cable
AyM_AR_MAG_0163	438621.3	5926820.7	3.5	49313.4	8.2	17.9	3.7	8.2	Positive
AyM_AR_MAG_0164	438624	5923238	4.9	48757.6	26.8	18.6	4.8	-1.2	Cable
AyM_AR_MAG_0165	438646.8	5924398.9	4.1	49289.6	12.4	79.7	4	-13.3	Negative
AyM_AR_MAG_0166	438655.7	5923226	23.1	48906.3	78.7	28	5.1	92	Cable
AyM_AR_MAG_0167	438694	5923209	169.5	49691	435.6	91.6	4.5	385.8	Cable
AyM_AR_MAG_0168	438708	5926634	7.6	49313.4	28.2	22	3.6	4.5	Dipole
AyM_AR_MAG_0169	438717	5923206.2	6.9	49033	38.5	48.8	3.8	-10.6	Cable
AyM_AR_MAG_0170	438737.4	5923198.3	9.3	49200.5	27.6	30.4	3.8	44.1	Cable
AyM_AR_MAG_0171	438757	5924194	3.3	49318.6	7.5	12.5	3.3	7.2	Positive
AyM_AR_MAG_0172	438808	5923174	1.7	49296.6	7.6	22.3	4.2	5.5	Cable
AyM_AR_MAG_0173	438829	5923166	4	49317.7	11	19.1	4.2	16.8	Cable
AyM_AR_MAG_0174	438839	5923163	2.5	49318	8.3	27.1	4.3	4.7	Cable
AyM_AR_MAG_0175	438871	5926125	1.9	49314.1	5.9	13.8	3.8	5.8	Positive
AyM_AR_MAG_0176	438911	5923918	3	49307.8	9.5	19.9	4.3	8.1	Dipole
AyM_AR_MAG_0177	438936	5925647	8.2	49325.7	19.2	46.8	4.4	20.5	Positive
AyM_AR_MAG_0178	438941	5927328	3.3	49309.1	6.9	30.4	3.4	7.1	Positive
AyM_AR_MAG_0179	438962.3	5925616.9	80	49240.6	280.9	68.4	4.1	-65.6	Dipole
AyM_AR_MAG_0180	439039.7	5923415.4	2.4	49308.5	11.1	16	3.8	0.9	Dipole
AyM_AR_MAG_0181	439084.1	5923153.8	2.3	49308.5	6.2	15.9	4.3	6.3	Positive
AyM_AR_MAG_0182	439145	5923030	6.1	49290.6	15.3	34.6	4	-17.7	Dipole
AyM_AR_MAG_0183	439180	5925071	2.6	49308	7.1	23.1	4.1	4.9	Dipole
AyM_AR_MAG_0184	439222.5	5925133.8	2.1	49300.7	8.4	19.6	4	7	Positive
AyM_AR_MAG_0185	439236	5926580	3.1	49313.3	19.8	30.9	3.3	5.6	Dipole
AyM_AR_MAG_0186	439241.8	5926377.6	2	49319.3	6.2	41.4	3.8	7.4	Positive
AyM_AR_MAG_0187	439265	5925350	3.1	49292.5	8.3	36.5	4.5	-8.9	Negative
AyM_AR_MAG_0188	439284	5926769	4.5	49290.2	12.4	24.8	4.1	-13	Negative
AyM_AR_MAG_0189	439318.7	5924082.8	2.1	49310.3	7.1	18.9	4.2	1.3	Dipole
AyM_AR_MAG_0190	439342	5926932	20.3	49362	72.5	74.8	3.6	54.3	Positive
AyM_AR_MAG_0191	439365	5925391	11.1	49327.4	24.9	21.9	3.5	25.3	Positive
AyM_AR_MAG_0192	439366	5925248.7	3	49281.4	10.3	14.5	3.5	-0.1	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0193	439379	5925774	4.5	49311	11.8	22.2	3.8	9.3	Positive
AyM_AR_MAG_0194	439384	5923593	1.8	49278.6	6.7	15.8	4	1.5	Dipole
AyM_AR_MAG_0195	439385	5923511.7	1.5	49313.2	5.1	23	3.9	5.2	Positive
AyM_AR_MAG_0196	439409.3	5925064.6	30.7	49289.6	137.4	69.2	4.2	-4.4	Complex
AyM_AR_MAG_0197	439434	5926839	1.5	49303.5	5	15.7	3	-4.4	Negative
AyM_AR_MAG_0198	439459	5925214	3.1	49280.4	10.7	14.9	3.5	-0.9	Dipole
AyM_AR_MAG_0199	439552	5926331	1.6	49311.7	5.7	18	3.5	1.1	Dipole
AyM_AR_MAG_0200	439564.3	5925540.1	0.8	49305.5	5.1	20.3	3.2	-2.9	Negative
AyM_AR_MAG_0201	439566.1	5926091.7	3.5	49300.2	9.9	19.8	3.5	-7	Negative
AyM_AR_MAG_0202	439624	5922838	123	48995.4	314.4	55.6	3.8	-334.9	Cable
AyM_AR_MAG_0203	439628	5926559	304.6	45466.4	613.1	10.6	4.7	-436	Complex
AyM_AR_MAG_0204	439648.8	5924821.5	2.8	49306.5	11.7	22.2	3.8	-0.2	Dipole
AyM_AR_MAG_0205	439710	5923710	3.2	49321.5	8.2	19.4	3.9	9.7	Positive
AyM_AR_MAG_0206	439736.7	5923074.6	2.5	49296.2	17.2	72.5	5.5	-3.3	Dipole
AyM_AR_MAG_0207	439737.1	5925259.2	1.6	49296.5	5.3	32.7	3.9	-5.9	Negative
AyM_AR_MAG_0208	439744.3	5926968.8	1.5	49317.1	5.2	25.9	4.1	5.7	Positive
AyM_AR_MAG_0209	439753	5926108	2.4	49313.4	7.8	28.2	4.4	7	Dipole
AyM_AR_MAG_0210	439866	5926474	5.6	49278.6	20.4	17.4	3.1	-6.8	Dipole
AyM_AR_MAG_0211	439869.7	5926216.4	2.8	49310.2	10	18.5	3.8	0.7	Dipole
AyM_AR_MAG_0212	439955	5926121	10.4	49287.1	33.5	25.3	3.7	-24.6	Negative
AyM_AR_MAG_0213	440033	5923595	6	49314	28.2	31.9	4.2	3	Dipole
AyM_AR_MAG_0214	440041.7	5925226.4	2.5	49310.2	13.3	27.2	4	4.3	Dipole
AyM_AR_MAG_0215	440049	5925534	1.8	49308.1	5.1	44	4.4	4.6	Positive
AyM_AR_MAG_0216	440092	5922650	266.2	48617.3	734.6	51.8	4.1	-734.7	Cable
AyM_AR_MAG_0217	440096.3	5924270.9	0.7	49296.2	5.1	21.5	3.7	-0.4	Dipole
AyM_AR_MAG_0218	440101.3	5922678.7	2.1	49314.5	9.8	61.6	3.7	-11.7	Cable
AyM_AR_MAG_0219	440112	5925121	3.1	49296.8	7.8	23.6	3.3	-7.7	Negative
AyM_AR_MAG_0220	440137	5926205	2.4	49303	6.6	38.8	3	-5.1	Negative
AyM_AR_MAG_0221	440146.9	5926168.9	24.1	49240.8	98.7	50.9	3.8	-67.1	Negative
AyM_AR_MAG_0222	440169	5926313	2.8	49314.5	6.4	26.6	3.1	6.3	Positive
AyM_AR_MAG_0223	440248	5926081	3.1	49317	8.7	11	3.7	7.9	Positive
AyM_AR_MAG_0224	440256	5924362.7	2	49312.2	5.1	13.7	3.2	5.6	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0225	440331.1	5927068	5.1	49315.2	17.6	49.5	3.9	10.1	Dipole
AyM_AR_MAG_0226	440352	5925149	1.6	49306.1	6.8	29.1	4	1.3	Dipole
AyM_AR_MAG_0227	440381.4	5926911.7	4.3	49325.2	15.9	39.6	4	14.7	Dipole
AyM_AR_MAG_0228	440399	5924162	2.3	49303.6	6.4	17.4	3.5	6.9	Positive
AyM_AR_MAG_0229	440434.5	5924768.8	3	49286.7	11	15.9	4.2	0	Dipole
AyM_AR_MAG_0230	440441	5925432	2.6	49310.2	6.4	22.5	4	5.4	Positive
AyM_AR_MAG_0231	440455.5	5926258.2	10.7	49217.7	27.5	35.6	3.7	23.7	Complex
AyM_AR_MAG_0232	440516	5926237	113.6	52251.7	722	50.2	4.4	-271.7	Dipole
AyM_AR_MAG_0233	440517	5924004	3.7	49279.9	15.8	30.7	3.9	-1.7	Dipole
AyM_AR_MAG_0234	440518	5924835	2.3	49288.1	5.3	9.9	2.5	6	Positive
AyM_AR_MAG_0235	440529	5926996	1.5	49307.7	5.7	25.7	3.8	2.4	Dipole
AyM_AR_MAG_0236	440551	5924341	3.7	49297.6	12	19.6	3.7	8.2	Positive
AyM_AR_MAG_0237	440585	5923637	2.8	49313.2	7.3	17.7	4.4	7	Positive
AyM_AR_MAG_0238	440596	5925931	1.9	49310.4	5.2	28.6	4.1	4.5	Positive
AyM_AR_MAG_0239	440624	5923064	4	49302.1	14.3	14.3	2.4	-3.4	Dipole
AyM_AR_MAG_0240	440648	5926096	1.5	49307.5	5.5	28.6	4.2	-2	Dipole
AyM_AR_MAG_0241	440663	5926556	6.8	49272.7	21.4	24.6	3.7	-13.2	Negative
AyM_AR_MAG_0242	440675	5926396	10.1	49276.3	25.5	25.2	3.2	-27	Negative
AyM_AR_MAG_0243	440681	5922856	13.9	49243.3	40.2	71.5	4	-40	Complex
AyM_AR_MAG_0244	440715.4	5925759.3	5.8	49315.3	16.8	38.7	3.4	11.2	Dipole
AyM_AR_MAG_0245	440729	5926359	27.9	49276.9	77.9	38.9	4.3	-26.9	Dipole
AyM_AR_MAG_0246	440732	5923108	4.1	49283.6	11.7	10.5	4	9.2	Positive
AyM_AR_MAG_0247	440737	5923030	4.4	49295.6	14.1	39.2	4.1	-2.6	Dipole
AyM_AR_MAG_0248	440767.9	5926362	1.8	49306.6	6.5	17.3	3.9	-0.1	Dipole
AyM_AR_MAG_0249	440817	5922776	1.6	49306.7	5.5	21.1	3.9	2.3	Dipole
AyM_AR_MAG_0250	440848	5925415	1.6	49309.3	6	16.4	4.3	-0.8	Dipole
AyM_AR_MAG_0251	440858	5923601	1.5	49309.6	7.3	37.9	4.3	4.5	Dipole
AyM_AR_MAG_0252	440859.1	5922431.4	3.9	49293.7	9.7	12.3	3.8	8.2	Positive
AyM_AR_MAG_0253	440893	5923826	4.5	49281.8	9.8	49.2	4	-10	Negative
AyM_AR_MAG_0254	440948.3	5923963.2	2.3	49302.6	5.6	19.7	4.2	7.1	Positive
AyM_AR_MAG_0255	440951	5925283	1.9	49292.4	5.1	15.4	3.7	6.1	Positive
AyM_AR_MAG_0256	440954.8	5925398.2	3.4	49299	16.4	55.5	4.1	9.9	Complex

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0257	440961	5925414	15.9	49285.7	57.6	61.1	4.2	-1.7	Dipole
AyM_AR_MAG_0258	440968.6	5924578	2.8	49300	11.4	23.8	4.1	-1	Dipole
AyM_AR_MAG_0259	440995.6	5923946.5	2.5	49301.7	5.8	16.2	4.5	6.1	Positive
AyM_AR_MAG_0260	441004	5925551	2.2	49282.4	6.4	28.9	4.1	-2.5	Dipole
AyM_AR_MAG_0261	441014	5927264	1.8	49306.2	5.3	19.8	3.9	-0.8	Dipole
AyM_AR_MAG_0262	441014.6	5923704.5	3.4	49272.8	9.4	17.6	3.3	-8.1	Negative
AyM_AR_MAG_0263	441028	5922322	314.5	50045.4	1082.8	82.2	4	827.8	Cable
AyM_AR_MAG_0264	441028	5923478	2.3	49313.1	7.4	22.1	4.1	6	Dipole
AyM_AR_MAG_0265	441035.1	5922350.4	2	49232	21.7	34.4	4	9.9	Cable
AyM_AR_MAG_0266	441039.9	5926262	2.2	49313.7	5.6	12.1	3	4.4	Dipole
AyM_AR_MAG_0267	441045	5924081	5.6	49308.5	19.2	17.4	3	3	Dipole
AyM_AR_MAG_0268	441046	5925110	3.2	49309.3	13.3	21.1	3.6	4	Dipole
AyM_AR_MAG_0269	441175.7	5924034.1	2.4	49311.5	5.6	9.7	2.6	5.4	Positive
AyM_AR_MAG_0270	441275	5924744	3.3	49287.3	9.4	25	4.3	-8.2	Negative
AyM_AR_MAG_0271	441306	5926511	1.4	49286.4	7.3	33.4	3.9	-2	Dipole
AyM_AR_MAG_0272	441320	5926645	2.8	49304	10.3	21.7	3.7	-3.8	Dipole
AyM_AR_MAG_0273	441369.6	5924747.4	2.5	49307.3	9.9	18.2	3.6	0.7	Dipole
AyM_AR_MAG_0274	441376.7	5923738.9	2.8	49311.3	11	21.2	3.4	4.3	Dipole
AyM_AR_MAG_0275	441422	5926043.1	4.4	49325.3	12.1	29.5	3.6	14.2	Positive
AyM_AR_MAG_0276	441461	5926271	2.6	49278.7	6.2	14.8	3.9	-7.1	Negative
AyM_AR_MAG_0277	441508	5922179	11.3	49308.4	141.7	74.7	4.1	2.7	Cable
AyM_AR_MAG_0278	441509.9	5927112.1	2.7	49280.3	12	24.4	4.3	4.4	Dipole
AyM_AR_MAG_0279	441513.5	5924618.3	2.6	49296.5	6.3	19.1	3.8	-7.1	Negative
AyM_AR_MAG_0280	441532	5926476	9.8	49332.1	24.3	22.7	3.6	22.1	Positive
AyM_AR_MAG_0281	441559	5922179	1.4	49255	5.4	25.5	3.5	3.1	Cable
AyM_AR_MAG_0282	441567.7	5924454.3	1.7	49279.5	8.3	15.5	3.6	-2	Dipole
AyM_AR_MAG_0283	441569	5926070	2.9	49313.2	7	11.6	2.7	4.5	Dipole
AyM_AR_MAG_0284	441582	5922391.4	4.6	49313.8	15	21.5	4.2	10.2	Dipole
AyM_AR_MAG_0285	441591.2	5926301.5	7.2	49293.5	18	15	3.6	-17.7	Negative
AyM_AR_MAG_0286	441620.4	5927300.2	5.2	49303.8	13.8	45	4.3	12.9	Positive
AyM_AR_MAG_0287	441636.1	5923793.6	2.2	49281.7	10.3	30.6	3.8	-3	Dipole
AyM_AR_MAG_0288	441647	5922150	3.5	49390.9	16.2	26.3	3.5	-5.4	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0289	441660	5925969	9.2	49271.6	20.4	35.4	3.8	-22.5	Dipole
AyM_AR_MAG_0290	441688	5922136	5.4	49341.4	22.1	25	3.7	15.7	Cable
AyM_AR_MAG_0291	441703	5924315	2.6	49299.3	10	10.8	3.9	-1.4	Dipole
AyM_AR_MAG_0292	441706	5924768	3.2	49313.3	7.1	12.4	3	7	Positive
AyM_AR_MAG_0293	441711	5923689	5	49277	14.5	24.5	3.7	-16.3	Negative
AyM_AR_MAG_0294	441715.3	5922125.2	37.7	49085.7	264.8	80.8	4.2	-48.9	Cable
AyM_AR_MAG_0295	441734	5925094	1.3	49308.3	5.7	21	4.1	-0.8	Dipole
AyM_AR_MAG_0296	441777	5922103	7.5	48764.1	25.7	35.3	4.8	-13.8	cable
AyM_AR_MAG_0297	441802.7	5923888.1	12.1	49314.5	28.7	23.2	3.9	26	Positive
AyM_AR_MAG_0298	441804	5922093	16.6	49344.6	95.1	6.3	4.4	-10.8	Cable
AyM_AR_MAG_0299	441825.4	5922083.7	7.6	49383	57.2	76	4.9	-31.5	Cable
AyM_AR_MAG_0300	441833	5923720	3.1	49276.6	7.3	39.4	3.7	-7.6	Negative
AyM_AR_MAG_0301	441839.4	5925508.2	1.6	49299.9	5.1	31.3	3.6	-6.7	Negative
AyM_AR_MAG_0302	441857.8	5922072.5	7.2	49302	28.3	63.4	4.3	-42	Cable
AyM_AR_MAG_0303	441885	5925104	4.2	49312.2	14.6	36.3	4.7	8.4	Dipole
AyM_AR_MAG_0304	441919	5922049	1.3	49337.1	5.2	19.4	4.3	4.3	Cable
AyM_AR_MAG_0305	441934	5922044	1.3	49351.7	5.4	16.8	3.4	-1.3	Cable
AyM_AR_MAG_0306	441995	5922038	128.5	48968.9	317.3	92	4.4	-349	Cable
AyM_AR_MAG_0307	441995	5926907	2.5	49304.7	7	25	3.2	7	Positive
AyM_AR_MAG_0308	442035	5926921	2	49271.4	5.2	18.6	3.9	-4	Negative
AyM_AR_MAG_0309	442059.6	5926845.1	9.1	49289	30.7	27.5	4.4	-23.2	Complex
AyM_AR_MAG_0310	442074.7	5926843	1.1	49311.9	9.9	60.9	4.4	0.5	Complex
AyM_AR_MAG_0311	442121	5922916	7.4	49318.6	16.6	27.4	3.6	17.4	Positive
AyM_AR_MAG_0312	442127.8	5925867.7	5.6	49317.2	19.1	27.5	3.3	7.5	Positive
AyM_AR_MAG_0313	442142	5925481	20.7	49342.7	60	51.9	4.2	39.6	Positive
AyM_AR_MAG_0314	442154	5927184	7.5	49324.6	18.5	15.5	3	18.2	Positive
AyM_AR_MAG_0315	442166	5926637	10.8	49260.3	39.8	40.9	3.4	-23.2	Dipole
AyM_AR_MAG_0316	442214.9	5923737.3	16.3	49337	39.8	34.4	3.7	44.7	Positive
AyM_AR_MAG_0317	442254.2	5924737.9	8.2	49289.5	21.7	55.2	3.9	-11.4	Dipole
AyM_AR_MAG_0318	442273.9	5924896.4	5.8	49319.4	16.3	20.1	3.8	11.1	Dipole
AyM_AR_MAG_0319	442276	5926054	3.1	49303.2	8	14.7	3.4	-7.5	Negative
AyM_AR_MAG_0320	442338.6	5924710.7	1.8	49306.6	6.6	22.7	4.1	5.3	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0321	442341.3	5924642.9	20	49315.2	70	27	3.9	13.5	Dipole
AyM_AR_MAG_0322	442363	5926176	3.2	49305.2	9.7	22.4	3.3	-4.9	Negative
AyM_AR_MAG_0323	442445	5924131	1.9	49279.2	6.6	13.1	2.7	0.7	Dipole
AyM_AR_MAG_0324	442474	5921898	21.4	49243.9	64.4	58.4	4.2	-62.7	Cable
AyM_AR_MAG_0325	442474.4	5924119.8	2.8	49285	6.7	6.3	2.9	6.7	Positive
AyM_AR_MAG_0326	442521.7	5923549.5	1	49301.4	5	15.8	3.2	-1.5	Dipole
AyM_AR_MAG_0327	442538	5924172	13.5	49309.7	28.8	32.2	4	25.8	Positive
AyM_AR_MAG_0328	442543	5926038	2.8	49312.8	12.1	36.5	3.1	8.5	Positive
AyM_AR_MAG_0329	442553.9	5923150.5	1.6	49278	6.2	20.4	4.1	0.8	Dipole
AyM_AR_MAG_0330	442575	5924084	14	49289.7	48.5	29.9	3.3	10.8	Dipole
AyM_AR_MAG_0331	442583.2	5925172.2	2	49308.2	11.4	29.3	3.7	-0.3	Dipole
AyM_AR_MAG_0332	442605	5924686	18.3	49330.4	47.1	27.2	3.6	47.3	Positive
AyM_AR_MAG_0333	442614.3	5924012.9	4.6	49288.5	15.7	36.5	4	-8.5	Dipole
AyM_AR_MAG_0334	442619	5926912	3.4	49294.4	16.4	21.5	4	-2.2	Dipole
AyM_AR_MAG_0335	442652	5922799	3.9	49308	8.5	10.4	3	8	Positive
AyM_AR_MAG_0336	442655.4	5927317.9	8.9	49288.2	20.2	14.7	3.2	-21.2	Negative
AyM_AR_MAG_0337	442681	5923491	9.8	49300.6	34.7	16.8	2.6	-2.6	Dipole
AyM_AR_MAG_0338	442697	5926524	2.8	49317.5	7.4	19.4	4.1	9.4	Positive
AyM_AR_MAG_0339	442748	5924437	6.1	49282	16	18.2	4	-16.7	Negative
AyM_AR_MAG_0340	442775	5927275	4.3	49301.5	11.8	13.5	2.9	-8.6	Negative
AyM_AR_MAG_0341	442775	5923539	5	49277.9	17	20.8	3.7	-9.5	Negative
AyM_AR_MAG_0342	442827	5922892	4	49298.1	15.8	47	4.5	-3.1	Dipole
AyM_AR_MAG_0343	442856	5923111	1.6	49303.6	5.5	29.2	4.1	0.1	Dipole
AyM_AR_MAG_0344	442856	5922881	1.5	49302.4	6.4	27	4.7	0.3	Dipole
AyM_AR_MAG_0345	442865.2	5925601.4	3.5	49292.8	9.3	42.1	3.3	-11.9	Negative
AyM_AR_MAG_0346	442883	5925757	2.9	49276.5	8.3	20.5	3.4	-9.3	Negative
AyM_AR_MAG_0347	442893	5922483	1.5	49295.7	6.6	20.8	5.5	1.1	Dipole
AyM_AR_MAG_0348	442904	5923268	1.6	49305.3	5.3	19.6	4	1.4	Dipole
AyM_AR_MAG_0349	442924	5924569	3.7	49290.5	11	15.8	3.2	7.7	Positive
AyM_AR_MAG_0350	442944	5921764	1.7	49326.8	11.1	17.7	4.1	-0.2	Cable
AyM_AR_MAG_0351	442946	5925736	1.6	49284.9	5.6	20.5	3.3	0	Dipole
AyM_AR_MAG_0352	442959	5921755	109.7	49508.8	257.5	56.9	4	232.5	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0353	442984	5921749	5.1	49415.7	19.1	31.3	4	11.8	Cable
AyM_AR_MAG_0354	443003.3	5925082.2	4.3	49297.7	9.1	18.4	3.2	-8.4	Negative
AyM_AR_MAG_0355	443012	5921738	2.4	49463.2	7.5	36.1	4	-2.7	Complex
AyM_AR_MAG_0356	443025	5921735	2.7	49480.8	18.3	54.8	4	1.2	Cable
AyM_AR_MAG_0357	443031	5921732	6.2	49499.9	19.2	52.4	3.7	14.2	Cable
AyM_AR_MAG_0358	443036	5923989	8.7	49293.6	39.1	38.3	4.4	10.9	Dipole
AyM_AR_MAG_0359	443043.8	5921805	2.1	49298.1	8.9	31	3.9	1.3	Dipole
AyM_AR_MAG_0360	443045	5921726	5.3	49505.2	23.1	47.3	4	-4.2	Cable
AyM_AR_MAG_0361	443052	5925406	11.6	49288.2	29.2	44.6	4.2	-11.8	Dipole
AyM_AR_MAG_0362	443067	5925925.6	10.9	49330.5	22.1	18.9	2.9	22.4	Positive
AyM_AR_MAG_0363	443085.2	5921710.8	2.1	49371.9	8.2	19.6	4.2	5.4	Cable
AyM_AR_MAG_0364	443096	5922642	2.1	49305.4	5.8	10.2	3.7	5.3	Positive
AyM_AR_MAG_0365	443098	5926005	5	49290.1	12	19	4.3	-13.1	Negative
AyM_AR_MAG_0366	443145	5924033	10.3	49320	38.6	48.9	4.1	16.9	Dipole
AyM_AR_MAG_0367	443221.6	5922599.8	3.9	49307.8	7.8	8.4	3.7	7.5	Positive
AyM_AR_MAG_0368	443225	5926023	4.1	49293.9	12	43.8	3.4	-7.4	Negative
AyM_AR_MAG_0369	443240	5924549	2.3	49313.4	6	19.3	3.7	6.8	Positive
AyM_AR_MAG_0370	443251	5925703	7.7	49313.3	34.1	25.4	3.2	3.7	Dipole
AyM_AR_MAG_0371	443261.3	5925944.5	49.6	49212.3	113.7	27	3.5	-92.4	Complex
AyM_AR_MAG_0372	443281	5923056	2.4	49308.6	5.7	14.7	2.7	5.1	Positive
AyM_AR_MAG_0373	443293	5925933	2.3	49307.7	6.9	14.7	3.2	3.8	Dipole
AyM_AR_MAG_0374	443340.4	5922867.4	1.3	49275.1	5.5	14.6	4.8	-2.1	Dipole
AyM_AR_MAG_0375	443341.8	5926382	5.1	49317.4	21.4	29.5	3.9	9.1	Dipole
AyM_AR_MAG_0376	443355	5925909	7.8	49297.5	37	31.2	3.2	-7.6	Dipole
AyM_AR_MAG_0377	443366	5927224	3.8	49295.9	13.2	22.2	4.1	5.2	Dipole
AyM_AR_MAG_0378	443372	5926441	20.8	49310.8	51.8	69.3	4	37.1	Dipole
AyM_AR_MAG_0379	443406.7	5925491.5	1.9	49282.1	6.9	21.5	4.3	-1.9	Dipole
AyM_AR_MAG_0380	443432	5921617	126.1	48944.3	340	67.8	4.5	-377.3	Cable
AyM_AR_MAG_0381	443436.3	5925715.1	2.1	49306.5	5.5	16.2	4.3	5.2	Positive
AyM_AR_MAG_0382	443446	5924143	8	49281.7	17.7	17.9	3.2	-19.5	Negative
AyM_AR_MAG_0383	443452	5925942	4.3	49311.4	14.2	28.5	4	9.2	Dipole
AyM_AR_MAG_0384	443457	5924070	4.3	49289.7	11.2	48	4.1	11.1	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0385	443465	5922821	1.7	49283.7	8.3	15.7	3.7	0.6	Dipole
AyM_AR_MAG_0386	443479	5922816	14.8	49326.9	39.1	16.5	3.7	37.5	Dipole
AyM_AR_MAG_0387	443503	5926844	2.2	49311.1	6	28.1	4	7	Positive
AyM_AR_MAG_0388	443504	5926850	1.5	49307.9	9.7	28.1	4	3.4	Dipole
AyM_AR_MAG_0389	443514	5922417	4.2	49285.5	10.5	23.2	4.4	-11	Negative
AyM_AR_MAG_0390	443523.2	5922800.1	1.6	49279.3	7.2	16.7	4.3	1.7	Dipole
AyM_AR_MAG_0391	443524.2	5926387	8.6	49293.1	23.8	43.1	3.8	18	Positive
AyM_AR_MAG_0392	443529	5926004	75.4	49202.8	251.4	34.2	3.6	-110.9	Complex
AyM_AR_MAG_0393	443533.7	5926313.8	3.7	49297.4	10.7	19.1	4	-9.7	Negative
AyM_AR_MAG_0394	443538	5922636	2.3	49294	6.3	34.1	3.8	-6.6	Negative
AyM_AR_MAG_0395	443563	5924263	3.7	49288.3	11.3	37	4.2	-10	Negative
AyM_AR_MAG_0396	443569	5922047	3	49291	7.4	38.5	3.7	-4.8	Dipole
AyM_AR_MAG_0397	443576	5923791	1.9	49305.5	7.3	39.9	3.8	6.6	Positive
AyM_AR_MAG_0398	443584	5925033	21.9	49311.1	79.7	32.5	3.6	5.1	Dipole
AyM_AR_MAG_0399	443598.5	5927222.8	2.9	49322.2	7.7	25.1	3.9	10.6	Dipole
AyM_AR_MAG_0400	443619	5926283	9.4	49305.7	36.3	24.3	4.2	-2.5	Dipole
AyM_AR_MAG_0401	443624.3	5924312.8	2	49287.7	5.9	16.9	3.9	4.9	Dipole
AyM_AR_MAG_0402	443640.6	5926896.4	2.1	49315	5	11.3	2.8	4.5	Positive
AyM_AR_MAG_0403	443669.7	5925163.5	6.6	49274.4	21.3	52.4	3.5	-15.5	Cable
AyM_AR_MAG_0404	443674	5925861	2.4	49295.6	6.1	28.6	4	-6.5	Negative
AyM_AR_MAG_0405	443678	5924924	2.4	49297	6.5	30.4	3.2	-6.4	Dipole
AyM_AR_MAG_0406	443679	5922912	5.5	49305.7	21.4	15	2.5	2.6	Dipole
AyM_AR_MAG_0407	443726.6	5926151.9	3.5	49309.9	14.6	24.8	4.3	3.4	Dipole
AyM_AR_MAG_0408	443729	5926243	3.2	49310.9	10	20.6	3.9	3.2	Dipole
AyM_AR_MAG_0409	443754	5925133	20.2	49260.6	77.6	32.6	4	-29.7	Dipole
AyM_AR_MAG_0410	443774.6	5927074.9	10.9	49301.7	43.7	26.1	4.1	11.7	Dipole
AyM_AR_MAG_0411	443807	5924557	2.3	49305.5	8	20	3.3	0.9	Dipole
AyM_AR_MAG_0412	443808	5925752	6.6	49332.3	20.8	29.5	4.1	23.9	Positive
AyM_AR_MAG_0413	443827	5923937	2	49282.8	5.7	33.4	4.1	5.3	Positive
AyM_AR_MAG_0414	443885.6	5924850.8	14.8	49340.5	47.6	54.5	4.2	38.2	Dipole
AyM_AR_MAG_0415	443896.1	5924082.7	23.9	49313.1	90.6	26.6	3.9	15.4	Dipole
AyM_AR_MAG_0416	443910	5921460	186.5	48739.2	508.2	93.4	4.3	-574.7	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0417	443911	5924810	1.5	49290.8	7.5	15.5	2.8	1.2	Dipole
AyM_AR_MAG_0418	443935	5923355	5.1	49285.7	12.8	14.2	4	-12.8	Negative
AyM_AR_MAG_0419	443936	5923223	2.9	49298.8	10.6	29.9	3.3	1.9	Dipole
AyM_AR_MAG_0420	443985	5927242	1.9	49312.4	7.2	20.5	4.1	-0.8	Dipole
AyM_AR_MAG_0421	443995	5923014	2.8	49306.9	7.5	17.5	2.8	4.6	Dipole
AyM_AR_MAG_0422	444011.6	5924974.1	14.3	49311.4	33.3	27.6	2.7	28.1	Positive
AyM_AR_MAG_0423	444011.9	5923464.9	2.6	49287.1	7.9	43.5	3.3	-8.6	Complex
AyM_AR_MAG_0424	444017.9	5921699.7	2.4	49305.2	5.1	14.1	3.8	4.8	Positive
AyM_AR_MAG_0425	444028	5926666	3.8	49295.8	9.8	21.9	4.1	-7.5	Dipole
AyM_AR_MAG_0426	444041.9	5922691.7	1.7	49294.3	6.6	54.9	4.4	3.6	Dipole
AyM_AR_MAG_0427	444119	5924447	1.8	49310.1	5.6	16.5	3.5	5.1	Positive
AyM_AR_MAG_0428	444132.1	5926784.8	4.3	49298.8	9.5	12.3	3.6	-9.6	Negative
AyM_AR_MAG_0429	444160	5924668.3	17.7	49307.9	61.3	22	3.3	2.8	Dipole
AyM_AR_MAG_0430	444176	5922734	11.9	49312.7	39	17.2	3.2	10.2	Dipole
AyM_AR_MAG_0431	444237	5924405	2.6	49307.1	9.8	17.5	4.5	1.9	Dipole
AyM_AR_MAG_0432	444237	5924405	2.6	49307.1	9.8	22.8	4.5	1.9	Dipole
AyM_AR_MAG_0433	444288.2	5925326.7	1.2	49310.9	6.7	29	3.9	0	Dipole
AyM_AR_MAG_0434	444302	5926406.6	0.8	49306.5	5.4	28.6	3.3	-0.3	Dipole
AyM_AR_MAG_0435	444320.8	5926166	1.8	49313.2	6.2	30.1	3.7	5.1	Dipole
AyM_AR_MAG_0436	444325	5923989	9.9	49315.8	30.6	39.9	4.3	17.3	Dipole
AyM_AR_MAG_0437	444345.2	5924056.4	4	49285.4	14.3	18.9	3.7	1.3	Dipole
AyM_AR_MAG_0438	444349	5924301	2	49297.7	5.9	15.6	3.7	2.6	Dipole
AyM_AR_MAG_0439	444357.7	5925851.5	8	49289.9	33.4	47.8	4.3	10.1	Dipole
AyM_AR_MAG_0440	444379	5924907	1.8	49300.6	5.3	40	5.6	8	Positive
AyM_AR_MAG_0441	444385	5921297	1.7	49294.3	9.8	23.4	4.6	1.8	Dipole
AyM_AR_MAG_0442	444442.5	5922004.8	2.3	49296.8	5.2	13	4	-5.4	Negative
AyM_AR_MAG_0443	444463	5924899	4.6	49305.2	15.3	34	3	6	Dipole
AyM_AR_MAG_0444	444469	5926199	2.4	49313.2	9.5	20	3.1	7	Positive
AyM_AR_MAG_0445	444501	5922615	60.4	49215.3	180	28.1	3.2	-84.8	Dipole
AyM_AR_MAG_0446	444516	5926261	8.3	49295.9	31.7	38.8	4	3	Dipole
AyM_AR_MAG_0447	444523	5925091	6.9	49309.4	16.5	39.4	3.1	10	Dipole
AyM_AR_MAG_0448	444537.9	5923289.6	6.1	49317.6	16.6	21.6	4	19.5	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0449	444546	5923055.7	1.8	49303.9	5.1	18	4.2	4.7	Positive
AyM_AR_MAG_0450	444557.3	5923739.1	3.7	49306.8	7.4	11.7	2.2	7.1	Positive
AyM_AR_MAG_0451	444577.4	5923662.4	1.4	49273.6	6.1	32	4.1	-1	Dipole
AyM_AR_MAG_0452	444589	5926235.3	1.2	49288.4	5.5	17.9	3.8	-3.5	Negative
AyM_AR_MAG_0453	444638	5927073	76	49506.4	188.7	28.5	3.9	194.2	Dipole
AyM_AR_MAG_0454	444670	5922857	4.3	49300.1	12	14	4.4	12.1	Positive
AyM_AR_MAG_0455	444677	5927254	3.3	49291.7	9.8	29.5	4.4	-5.6	Dipole
AyM_AR_MAG_0456	444717	5924857	3.8	49314.6	9.6	11.7	3.5	8.6	Positive
AyM_AR_MAG_0457	444757	5923214	2.2	49301.7	5.8	23	4.8	6.6	Positive
AyM_AR_MAG_0458	444786.6	5925769	2.2	49312.1	5.4	19	3.8	4.9	Positive
AyM_AR_MAG_0459	444811	5924324	2.5	49281.3	7.9	31.8	4.3	7.3	Positive
AyM_AR_MAG_0460	444831	5924385	2	49269.4	5.4	21	4.1	-5.3	Negative
AyM_AR_MAG_0461	444837.9	5925444.7	1.3	49306.2	5.3	12.7	4	4.1	Positive
AyM_AR_MAG_0462	444858	5921134	5.1	49300.8	30.9	42.5	5.5	9.6	Dipole
AyM_AR_MAG_0463	444868	5927390	6.3	49326	14.9	18.8	3.8	13.8	Positive
AyM_AR_MAG_0464	444870	5924965	4.5	49276	14.3	44.8	4.4	-8.8	Dipole
AyM_AR_MAG_0465	444873	5923171.8	1.5	49296.8	6.9	30.2	4.4	1.2	Dipole
AyM_AR_MAG_0466	444874	5925430	11.6	49267.6	39.1	44.6	4.2	-32.7	Negative
AyM_AR_MAG_0467	444885	5926235	2	49295.4	5.6	19.1	3.8	-5	Negative
AyM_AR_MAG_0468	444892.3	5925592.7	2.6	49283.4	9.7	24.7	3.8	-6.2	Dipole
AyM_AR_MAG_0469	444906	5924628	1.8	49280.9	5.1	31.8	4	5.4	Positive
AyM_AR_MAG_0470	444909	5923950	1.7	49307	6.2	15.3	3.6	1.5	Dipole
AyM_AR_MAG_0471	444921	5925815	3.9	49306.7	14.7	18.5	4	-1.4	Dipole
AyM_AR_MAG_0472	444989.5	5924755	2.4	49307.4	22.8	40	3.6	0.1	Dipole
AyM_AR_MAG_0473	445026	5926679.6	4.2	49307	14.4	28.4	3.9	5.3	Dipole
AyM_AR_MAG_0474	445072.2	5924273.2	3	49314.4	9.7	25.4	3.3	8.4	Positive
AyM_AR_MAG_0475	445074	5924495	2.1	49308.4	7.5	15.8	4.2	1.7	Dipole
AyM_AR_MAG_0476	445110.4	5925654	12	49307.9	40.9	20.6	3.5	0.2	Dipole
AyM_AR_MAG_0477	445126	5923771	2.1	49279.1	7.3	13.1	3.5	-2.8	Dipole
AyM_AR_MAG_0478	445136	5925180	2.2	49312.7	7	13.8	3.5	4.9	Positive
AyM_AR_MAG_0479	445152.3	5923703.4	2	49298.4	8.2	27	3.5	0.3	Dipole
AyM_AR_MAG_0480	445168.7	5921038.3	4.4	49183.8	13.7	56.2	3.1	9.8	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0481	445189.8	5924145.4	64.9	49009.8	147.6	56.2	5	-140.3	Dipole
AyM_AR_MAG_0482	445198.2	5924293.3	14.6	49336.2	33.9	19.2	2.6	31	Positive
AyM_AR_MAG_0483	445208	5921022.6	1.3	49138.6	6.9	81.2	4.2	-5.7	Cable
AyM_AR_MAG_0484	445237.1	5923353.8	2.8	49300.6	10.5	17.3	3.8	-1	Dipole
AyM_AR_MAG_0485	445298	5921382	2.5	49302.3	5.3	11.6	3.6	4.6	Positive
AyM_AR_MAG_0486	445311	5923169	3.5	49274.8	11.1	18	3.5	-6.7	Dipole
AyM_AR_MAG_0487	445327	5920970	11.4	49320.9	49.7	59.3	3.9	28.7	Cable
AyM_AR_MAG_0488	445334	5923698	4.2	49297.1	18.1	38	3.5	12.7	Positive
AyM_AR_MAG_0489	445354	5924705	10.3	49281.8	25.4	16.5	2.2	-23.6	Negative
AyM_AR_MAG_0490	445416	5920946	1.3	49229.2	7.1	38.3	5.2	-2	Cable
AyM_AR_MAG_0491	445421	5923666	2.8	49275.7	6.7	13.3	3.6	-6.8	Negative
AyM_AR_MAG_0492	445434	5924676	2.6	49297.2	6.7	18.9	2.9	-7.2	Negative
AyM_AR_MAG_0493	445465	5920929	3.9	49187.3	24.6	12.8	4.7	-0.1	Cable
AyM_AR_MAG_0494	445501	5923501	4.6	49308.1	15.1	25.1	4.2	11	Dipole
AyM_AR_MAG_0495	445503	5920916	9.5	49235.6	25.8	39.3	4.4	21.6	Cable
AyM_AR_MAG_0496	445509.2	5927074.9	0.9	49298.8	6.1	35.5	3.9	-0.6	Dipole
AyM_AR_MAG_0497	445523	5925900	1.6	49291.5	6.5	44.5	4.6	0.3	Dipole
AyM_AR_MAG_0498	445535	5920905	5	49283	10.3	25.7	4.9	8.9	Cable
AyM_AR_MAG_0499	445550	5927145	2	49308.6	6.3	14.2	3.7	-2.4	Dipole
AyM_AR_MAG_0500	445559.6	5927140.7	1.5	49311.3	5	10.8	3.7	-0.2	Dipole
AyM_AR_MAG_0501	445576	5927355	1.7	49308.6	6.3	14.8	3.4	-0.6	Dipole
AyM_AR_MAG_0502	445577	5920890	1.8	49298.7	5.2	26.2	5.1	-2.8	Cable
AyM_AR_MAG_0503	445577	5922604	3.7	49293.5	11.3	35	3	-6.1	Dipole
AyM_AR_MAG_0504	445578	5925020	5.1	49300.6	19.8	26.6	4.5	-7	Dipole
AyM_AR_MAG_0505	445587.2	5924620.6	2.8	49312.4	6.7	16.6	4.4	6.9	Positive
AyM_AR_MAG_0506	445598.7	5920884	9.6	49277.3	26.3	26.3	4.2	-23.8	Cable
AyM_AR_MAG_0507	445608	5923522	1	49300.2	6	32.5	4	1.1	Dipole
AyM_AR_MAG_0508	445617	5920875	15.7	49232.9	66.5	24.3	4.5	-37.7	Cable
AyM_AR_MAG_0509	445628	5920872	23.6	49219.8	66.4	41.6	3.7	-46.5	Cable
AyM_AR_MAG_0510	445633.5	5924924.2	3.3	49292.6	10.1	22.4	3.8	-8.2	Negative
AyM_AR_MAG_0511	445648	5925085	1.9	49306.7	11.7	34.1	4.2	2.3	Dipole
AyM_AR_MAG_0512	445658	5920863	4.8	49264.3	25.8	39.6	6	10.6	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0513	445664	5927039	12	49262.5	23.7	31.2	3.9	-22.2	Negative
AyM_AR_MAG_0514	445673.3	5926390.9	9	49276.3	49.4	67.2	4.1	-14.4	Dipole
AyM_AR_MAG_0515	445681	5920853	5.6	49357	13.7	39.9	5.6	11.8	Cable
AyM_AR_MAG_0516	445685.5	5926543.5	1.9	49311.4	6.1	14.3	4	4.1	Dipole
AyM_AR_MAG_0517	445703.6	5920845	8.9	49364	19.2	65.8	4.4	-14.7	Cable
AyM_AR_MAG_0518	445707	5925766	21.6	49337.6	71.8	41.3	4.2	37.5	Dipole
AyM_AR_MAG_0519	445709	5922558	2.2	49309	5.8	29.3	2.7	8.2	Positive
AyM_AR_MAG_0520	445709	5927087	8.5	49333.8	19.8	16.3	3.7	22.2	Positive
AyM_AR_MAG_0521	445725.3	5920841.1	5.7	49318.9	34.3	38.9	4.7	-29.2	Cable
AyM_AR_MAG_0522	445751.9	5924560.2	4.5	49316.3	11.9	12.9	4.1	11.7	Positive
AyM_AR_MAG_0523	445757	5925420	1.5	49306.6	5.3	15.1	3.4	0.9	Dipole
AyM_AR_MAG_0524	445763.6	5920823.9	5.8	49386.7	20.8	25.2	5.2	9.5	Cable
AyM_AR_MAG_0525	445765.9	5926816.8	4.4	49300.1	10.6	16.3	4	-10.5	Negative
AyM_AR_MAG_0526	445770	5922931.2	4.3	49280.2	14.7	21.8	2.3	0.6	Dipole
AyM_AR_MAG_0527	445785.4	5920816.7	23.8	49365	60.3	29.6	5.1	13.4	Cable
AyM_AR_MAG_0528	445798.9	5926882	11.9	49343.9	30.8	31.3	3.1	33.1	Positive
AyM_AR_MAG_0529	445808	5920808	156.9	49490.1	342.2	63.1	4.9	227.3	Cable
AyM_AR_MAG_0530	445812.8	5923521.2	5.5	49280.5	30.6	34.4	3.8	0.4	Dipole
AyM_AR_MAG_0531	445832.8	5920799.5	20.2	49347	119.3	57.4	5.5	4.6	Cable
AyM_AR_MAG_0532	445853	5925961	68.3	49135.8	193.7	75.7	3.9	-158.3	Dipole
AyM_AR_MAG_0533	445855	5920788	19.9	49740.2	103	41.3	4.7	-55.6	Cable
AyM_AR_MAG_0534	445859.7	5922899	4.7	49267.4	9.8	12.4	3.3	-9.8	Negative
AyM_AR_MAG_0535	445893	5925934	2.3	49309.7	6.7	17.3	3.8	2.6	Dipole
AyM_AR_MAG_0536	445896	5920774	28.5	49882.7	75.3	41.3	5.4	68.2	Cable
AyM_AR_MAG_0537	445912	5920767	12.5	49808.3	58	51.5	4.3	-34.6	Cable
AyM_AR_MAG_0538	445928	5920761	10.8	49836	34.4	25.1	4.4	4.1	Cable
AyM_AR_MAG_0539	445946	5920756	7.4	49782.9	55.5	70.9	4.5	-27	Cable
AyM_AR_MAG_0540	445968	5925671	11.4	49333.7	36.9	26.8	3.6	29.9	Positive
AyM_AR_MAG_0541	445981	5920743	30.6	50112.1	161.6	68.5	2.1	37	Cable
AyM_AR_MAG_0542	445998.5	5923105.2	1.3	49302.5	7.9	19.8	3.5	2.5	Dipole
AyM_AR_MAG_0543	446003	5924254	10	49299	30.3	24.6	3.8	20.2	Positive
AyM_AR_MAG_0544	446003.8	5924253.6	10.9	49303	28.8	27.4	3.8	24.2	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0545	446009.6	5920736.2	21.9	49405.4	72.6	22.4	6.4	-11.5	Cable
AyM_AR_MAG_0546	446011.8	5925328.2	5.2	49291.5	12.9	18.2	4	-14.3	Negative
AyM_AR_MAG_0547	446032	5923224	3	49296.7	7.5	22.8	4	-5.9	Negative
AyM_AR_MAG_0548	446036	5920725	10.2	50034.4	29.8	39.7	4.3	28.6	Cable
AyM_AR_MAG_0549	446046.1	5927113.5	2.4	49302.5	11	22.4	3.9	-7.1	Negative
AyM_AR_MAG_0550	446051	5924454	2.8	49309.9	7.8	18.1	3.3	4.6	Dipole
AyM_AR_MAG_0551	446051.4	5926491.4	2.1	49314.4	7.9	37	3.4	4.7	Complex
AyM_AR_MAG_0552	446059.7	5920716.4	31.6	49923.5	90.6	41.9	4.4	-66.9	Cable
AyM_AR_MAG_0553	446074.7	5926483.7	17	49317.2	61	26.3	3.2	8.3	Complex
AyM_AR_MAG_0554	446076	5923364	1.9	49302.4	7.9	33.4	4	0.3	Dipole
AyM_AR_MAG_0555	446094.7	5926324.7	2.3	49303.8	5.2	15.6	2.9	-5.2	Negative
AyM_AR_MAG_0556	446100	5920703.9	8.8	49605.8	46.9	36.5	5.4	10.4	Cable
AyM_AR_MAG_0557	446119.7	5927004.1	14.6	49358.3	38.5	19.4	3.7	43.7	Positive
AyM_AR_MAG_0558	446149	5920685	21.4	49920.4	62.5	53.3	4.6	60.5	Cable
AyM_AR_MAG_0559	446172	5920677	18	49840.4	45.9	24.2	5.2	49.4	Cable
AyM_AR_MAG_0560	446184.1	5921530.4	11.2	49296.6	40.6	25.1	3.3	0.1	Dipole
AyM_AR_MAG_0561	446195	5920670	7.6	49463.4	36	21.7	5.2	20	Cable
AyM_AR_MAG_0562	446201	5925260	21.4	49318.8	93.2	27.1	3.6	11.7	Dipole
AyM_AR_MAG_0563	446260	5926801	6	49285.4	19.2	30.1	4.1	-13	Dipole
AyM_AR_MAG_0564	446263	5920646	24.2	49323.7	83	71.1	5.1	36.2	Cable
AyM_AR_MAG_0565	446289	5923898	2.9	49311.4	6.4	12.3	2.8	6.3	Positive
AyM_AR_MAG_0566	446303	5920627	45.2	49965.7	208.9	65.9	3.1	108.8	Cable
AyM_AR_MAG_0567	446318	5926395.3	2.8	49311.6	13	25.1	4	0.9	Dipole
AyM_AR_MAG_0568	446322.4	5926547.4	2.8	49300.4	8.4	22.9	4.1	-6.8	Dipole
AyM_AR_MAG_0569	446342	5920614.2	77.5	49679.7	177.1	32.6	3.2	-157.2	Cable
AyM_AR_MAG_0570	446371.8	5925122.8	1.7	49278.6	6.4	24	4	0.4	Dipole
AyM_AR_MAG_0571	446377	5920602	5.4	49804.4	17.8	25.3	3.8	10.3	Cable
AyM_AR_MAG_0572	446380.1	5924575.7	5.8	49294.7	13.4	18.7	3.1	-14.5	Negative
AyM_AR_MAG_0573	446381	5924492.9	2.7	49290.3	5.2	16.7	2.7	4.5	Positive
AyM_AR_MAG_0574	446393	5920596	6.7	49811.3	16.6	37.9	4.5	12	Cable
AyM_AR_MAG_0575	446396	5926841	3.5	49320.8	9.7	18	3.5	9.5	Positive
AyM_AR_MAG_0576	446396.2	5926666.4	2.8	49301.1	7.1	17.1	3.5	-7.7	Negative

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0577	446402	5926063	1.2	49304.9	5.2	25	4.3	0.8	Dipole
AyM_AR_MAG_0578	446424	5920585	7.3	49803.5	32	25.6	4.2	7.3	Cable
AyM_AR_MAG_0579	446431.8	5924236.2	2.7	49312.9	9	25.4	2.7	6.8	Dipole
AyM_AR_MAG_0580	446445	5922132	6.4	49285.3	14.9	16	3	-15.5	Negative
AyM_AR_MAG_0581	446452.8	5920576.6	7.7	49773.2	66.1	51.2	4.7	5.1	Cable
AyM_AR_MAG_0582	446458	5924789.9	4	49295.4	8.3	11.8	3.2	-8.3	Negative
AyM_AR_MAG_0583	446458	5925493	2.9	49310.3	6.2	12.3	3.5	6.4	Positive
AyM_AR_MAG_0584	446485.8	5920563.4	10	49775.2	28.8	49.1	4.9	-14.4	Cable
AyM_AR_MAG_0585	446498.3	5920558.1	6.9	49625.7	16.3	25.7	4.6	8.1	Cable
AyM_AR_MAG_0586	446527.4	5920550.2	24.9	49730.8	104.1	52.6	5	93.5	Cable
AyM_AR_MAG_0587	446565	5926581	3.1	49295.4	9	21.4	4.8	-9.8	Negative
AyM_AR_MAG_0588	446571	5920531	2.5	49699.4	14.5	27.4	4	5.9	Cable
AyM_AR_MAG_0589	446588	5926834	5.3	49309.7	21.5	22.8	3.9	-3.3	Dipole
AyM_AR_MAG_0590	446594.6	5920522.5	36.3	49819	128.1	29.8	3.6	78.8	Cable
AyM_AR_MAG_0591	446603.8	5926520.6	3.7	49311.3	12.7	18.9	3.5	0.5	Dipole
AyM_AR_MAG_0592	446604.7	5925827.8	2.3	49300	5.3	14.3	4.3	-5.5	Negative
AyM_AR_MAG_0593	446615.1	5924969	5.6	49290.4	38.3	34.2	3.4	1.2	Dipole
AyM_AR_MAG_0594	446617.1	5920515.9	38.8	49699.2	97.5	68.7	3.2	-67.6	Cable
AyM_AR_MAG_0595	446629.8	5924881.9	3.7	49315.9	10.3	20.8	3.8	9.1	Positive
AyM_AR_MAG_0596	446646	5920505	3.2	49542.9	21.1	61.8	4.6	-6	Cable
AyM_AR_MAG_0597	446650.3	5924022	2.3	49270.4	6	19.9	3.8	-7.1	Negative
AyM_AR_MAG_0598	446689	5925304	3.2	49298.9	7.7	34.3	3.5	-7.4	Negative
AyM_AR_MAG_0599	446692.9	5920490.2	33.1	49630.1	116.3	38.1	4.9	-82.2	Cable
AyM_AR_MAG_0600	446693	5926106	3.2	49312.7	11.8	28.2	4.1	3.4	Dipole
AyM_AR_MAG_0601	446706	5927040	6.9	49317.1	20.3	24	3.3	10.3	Dipole
AyM_AR_MAG_0602	446707	5920364	166.1	49013.2	838.8	106.9	4	56	Cable
AyM_AR_MAG_0603	446709	5920399	37.2	49375.4	98.2	102	4.2	74.9	Cable
AyM_AR_MAG_0604	446710.1	5925310.3	6.4	49289.2	15.8	18	3.5	-15.9	Negative
AyM_AR_MAG_0605	446723	5920419	1.7	48898.7	5.5	16.4	5.9	-2.4	Cable
AyM_AR_MAG_0606	446723.8	5922031.2	2.8	49307.1	7.4	12.2	3.1	6.2	Positive
AyM_AR_MAG_0607	446726.5	5920477.7	80.5	49606.4	439	89	4.6	160.9	Cable
AyM_AR_MAG_0608	446728	5920431	10.3	48812.4	37.4	10.7	5.8	20.3	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0609	446731	5920442	4.3	48621.5	25.9	45.7	5	11.4	Cable
AyM_AR_MAG_0610	446744	5920477	100.1	49244.4	585.6	72.4	4.9	181.5	Cable
AyM_AR_MAG_0611	446760	5927091	1.8	49310.8	6.5	31.4	4.3	-1.9	Dipole
AyM_AR_MAG_0612	446776	5924977.9	1.6	49282	6.3	20.7	4	3.7	Dipole
AyM_AR_MAG_0613	446795.6	5926605.9	2.5	49290.2	5.9	17.6	4.1	-6.1	Negative
AyM_AR_MAG_0614	446796	5921695	2.3	49286.1	5.7	31.8	3.8	-5.6	Negative
AyM_AR_MAG_0615	446807	5924009	5.1	49284.1	24.3	36.8	3.6	-16.4	Negative
AyM_AR_MAG_0616	446810	5923869	2.3	49307.2	10.3	23.2	4	-0.7	Dipole
AyM_AR_MAG_0617	446814	5927237	18.6	49290.1	80.8	34.7	3.5	-23.1	Dipole
AyM_AR_MAG_0618	446917	5926040	7.9	49318.2	26.2	65.3	4.2	13.3	Dipole
AyM_AR_MAG_0619	446942	5920787	7	49280.4	15.5	18	3.8	-16.9	Negative
AyM_AR_MAG_0620	446981	5922973	7.8	49308.6	25.7	21.3	4	13	Dipole
AyM_AR_MAG_0621	446997	5920377	2.4	49371.4	6.3	23.9	4.1	4.6	Cable
AyM_AR_MAG_0622	447016	5922633.5	1.8	49305.7	5.6	29.6	4	6.9	Positive
AyM_AR_MAG_0623	447042	5923880	5.1	49287.3	19.1	33.7	4.5	8.2	Dipole
AyM_AR_MAG_0624	447043	5926949	2.5	49286.3	6.7	45.5	4.3	-8.2	Negative
AyM_AR_MAG_0625	447084.5	5920817.8	5.6	49294.7	24.4	30.9	4.5	0.1	Dipole
AyM_AR_MAG_0626	447093.2	5924164.2	2.4	49292.4	6.1	12.2	3.8	5.4	Positive
AyM_AR_MAG_0627	447100	5924716	2.4	49306.8	8.7	16.5	3	-0.5	Dipole
AyM_AR_MAG_0628	447115	5923992	3.3	49308.9	17	37.1	4	3.2	Dipole
AyM_AR_MAG_0629	447131.3	5926721.6	1.6	49314.8	8	27.2	4.1	6.3	Dipole
AyM_AR_MAG_0630	447149.4	5920321.6	2.4	49530.9	8.4	74	5.2	7.3	Cable
AyM_AR_MAG_0631	447173	5923510	2.9	49297.2	8.5	23.1	3.8	-7.1	Negative
AyM_AR_MAG_0632	447180.3	5920310.2	14.6	49595.4	65	39.3	4.8	38.8	Cable
AyM_AR_MAG_0633	447183	5920178	2.5	49292.5	8.6	26.2	4.4	2.4	Dipole
AyM_AR_MAG_0634	447208	5923504	7.8	49321	31.1	17.5	6.1	17.2	Positive
AyM_AR_MAG_0635	447219	5920305	211.4	48869.9	978.2	100.1	4.9	-427.8	Cable
AyM_AR_MAG_0636	447219	5922408	2.1	49299.8	5.7	14.9	2.9	-5.3	Negative
AyM_AR_MAG_0637	447219.2	5924029.9	0.9	49308.8	6.9	39.9	3.5	0	Dipole
AyM_AR_MAG_0638	447224.5	5923497.1	3.3	49307.5	12.6	10.9	4.3	0.6	Complex
AyM_AR_MAG_0639	447246.9	5920290.4	8.4	49762.2	26.8	38.9	4.6	14.3	Cable
AyM_AR_MAG_0640	447263.1	5925114	2.1	49298	6	19.1	4	-6.6	Negative

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0641	447272.3	5925812.2	5.9	49310.5	14.2	14.4	4	16.6	Positive
AyM_AR_MAG_0642	447285.2	5920275.9	53.9	49236.4	168.9	65.6	4.9	-152.9	Cable
AyM_AR_MAG_0643	447293	5927220	27.5	49287.7	91.5	48.5	3.9	-22.9	Dipole
AyM_AR_MAG_0644	447296	5923927	8.1	49292.8	32.7	28.5	3.1	-14.4	Dipole
AyM_AR_MAG_0645	447303	5923921	2.9	49307.5	10.4	30.1	4.1	4.8	Dipole
AyM_AR_MAG_0646	447317.3	5923844.6	1.7	49258	5.2	30.5	4.9	6.2	Positive
AyM_AR_MAG_0647	447318	5925650	2	49306.7	7	28.8	3.9	1.7	Dipole
AyM_AR_MAG_0648	447320	5923781	2.5	49272.6	10.8	23.2	3.8	-1.5	Dipole
AyM_AR_MAG_0649	447339.3	5920256.1	144	49528.2	602.7	761.8	5.1	217.7	Cable
AyM_AR_MAG_0650	447354	5924106	2.4	49301.8	9.1	34.7	3.8	-6	Dipole
AyM_AR_MAG_0651	447355	5923371	5.6	49293.2	15.8	31.1	4.5	-9.4	Dipole
AyM_AR_MAG_0652	447394.7	5920236.9	33.2	49508.1	231	130.4	4.1	22.3	Cable
AyM_AR_MAG_0653	447413	5923886	188.6	47594.3	551.7	77.8	3.9	-687.9	Dipole
AyM_AR_MAG_0654	447424	5924315	1.2	49310	5.1	46.8	4.2	3.7	Positive
AyM_AR_MAG_0655	447444	5924736	1.3	49280.6	5.5	27.5	4	0.3	Dipole
AyM_AR_MAG_0656	447463.3	5920211.2	85.7	49742.1	295.2	120.5	3.9	181	Cable
AyM_AR_MAG_0657	447513	5927219	1.9	49321.4	5.3	16.3	3.6	5.1	Positive
AyM_AR_MAG_0658	447518.7	5920189.5	20.8	49594	253	169.4	4.7	-5.2	Cable
AyM_AR_MAG_0659	447572.7	5920170.3	65.6	49653.8	139.8	145.6	4.3	84.6	Cable
AyM_AR_MAG_0660	447578	5923825.7	3.2	49315.4	8	18	3.2	9.6	Positive
AyM_AR_MAG_0661	447578.3	5923986.8	2.5	49292.5	5.3	10.7	4.4	5.2	Positive
AyM_AR_MAG_0662	447601	5920162	27.5	49480.9	191.3	49.7	4	30.2	Cable
AyM_AR_MAG_0663	447610.4	5923674.6	4.3	49294.6	10.6	20.8	2.8	11.3	Positive
AyM_AR_MAG_0664	447661	5920919	2	49301.4	5.8	26.8	3.8	5.1	Positive
AyM_AR_MAG_0665	447661.1	5920139.3	18.5	49282.3	173.1	101.8	4.1	36.2	Cable
AyM_AR_MAG_0666	447682.4	5926952.9	3.6	49297.2	14.8	30.8	4.2	-0.5	Dipole
AyM_AR_MAG_0667	447693	5924179	2.6	49295.7	6.9	28.1	4	-6.1	Negative
AyM_AR_MAG_0668	447703	5920123	15.2	49626	100.8	40	5	25.3	Cable
AyM_AR_MAG_0669	447708.5	5922771.4	1.7	49306.3	5.1	15.8	4	4.4	Positive
AyM_AR_MAG_0670	447728	5925172	4.4	49318.1	9.9	13.1	3.2	10.3	Positive
AyM_AR_MAG_0671	447729	5923935	1.9	49294.7	5.9	29.1	4.2	5.1	Positive
AyM_AR_MAG_0672	447737	5920111	20.2	49405.9	74.4	28.5	4.7	-22.2	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0673	447739	5925567	3.9	49308.7	15.1	45.2	4.3	0.2	Dipole
AyM_AR_MAG_0674	447759	5927131	3.6	49325.7	11.2	15.2	3.7	8.3	Positive
AyM_AR_MAG_0675	447777.9	5920095.1	34.9	49637.8	83.1	51.3	5.1	67.5	Cable
AyM_AR_MAG_0676	447802	5920087	6	49638.4	19.2	27.1	5	12	Cable
AyM_AR_MAG_0677	447826	5920078	15.8	49593.8	129	51	4.2	-4.6	Cable
AyM_AR_MAG_0678	447826	5925386	2.9	49312.2	9.3	16.8	3.1	4	Dipole
AyM_AR_MAG_0679	447853	5920069	29.3	49590.8	92.5	51.3	4.7	87.8	Cable
AyM_AR_MAG_0680	447853	5926533	2.5	49316.2	5.4	11	3.5	5.6	Positive
AyM_AR_MAG_0681	447864	5923647	7.8	49331.9	21.9	87.7	4.2	33.2	Dipole
AyM_AR_MAG_0682	447901	5920053	1.3	49305.1	6.1	39.2	4.5	3.8	Cable
AyM_AR_MAG_0683	447902	5926842	3.2	49314.7	12.5	15.3	3.6	2.1	Dipole
AyM_AR_MAG_0684	447920	5920045	2.9	49356.7	9.8	20.1	4.7	3.7	Cable
AyM_AR_MAG_0685	447920	5920129	2.4	49297.7	7.1	35.7	4.8	7.3	Positive
AyM_AR_MAG_0686	447928.5	5924015.5	1.2	49311.8	5.5	22.2	2.4	0.1	Dipole
AyM_AR_MAG_0687	447952	5920033	2.5	49312.1	11.7	20.6	5	6.8	Cable
AyM_AR_MAG_0688	447995	5926117	2.9	49317.7	8.4	23.9	4	7.6	Positive
AyM_AR_MAG_0689	447996	5920018	2.4	49412.5	6	14.8	4	3.4	Cable
AyM_AR_MAG_0690	448001	5922656	1.5	49302.5	7.4	33.2	5.3	3.1	Dipole
AyM_AR_MAG_0691	448012.9	5927179.5	5.1	49327	13.9	18.7	3.6	8	Dipole
AyM_AR_MAG_0692	448022.3	5923129.4	1.9	49298.9	6.7	23	4	-2.3	Dipole
AyM_AR_MAG_0693	448033	5921241	4.6	49307.2	19.7	39.5	4.6	9	Dipole
AyM_AR_MAG_0694	448040	5920002	3.3	49333.6	16	30.5	5.2	-9.8	Cable
AyM_AR_MAG_0695	448082	5921074.7	5.6	49269.2	13.1	22.9	4.5	-14.7	Negative
AyM_AR_MAG_0696	448084	5919988	2	49333.1	6.5	19.8	5.1	4.9	Cable
AyM_AR_MAG_0697	448103	5924813	2.9	49303	10	13.6	2.6	-5.3	Dipole
AyM_AR_MAG_0698	448109	5919978	3.8	49312.2	13.3	29.8	4.8	-5.7	Cable
AyM_AR_MAG_0699	448135	5919969	2	49325.3	8.1	20.2	3.8	-3.1	Cable
AyM_AR_MAG_0700	448140	5923863	3.6	49277.5	9.8	24.7	3.6	-9.8	Dipole
AyM_AR_MAG_0701	448142	5919965	5.2	49346.9	19.2	28.9	4.7	-9.7	Cable
AyM_AR_MAG_0702	448152	5919967	10.5	49317.7	35.2	57.8	4.7	23.2	Cable
AyM_AR_MAG_0703	448160	5919958	3.4	49304.6	15.4	18.5	4.8	-5.8	Cable
AyM_AR_MAG_0704	448162.3	5923775.6	1.7	49292.7	5.1	15.7	5.4	4.9	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0705	448204	5919941	19.9	49315.3	99.8	29.6	4.5	-48.9	Cable
AyM_AR_MAG_0706	448211.4	5925865.4	5.7	49308.5	25.4	33.3	4.3	-2.2	Dipole
AyM_AR_MAG_0707	448214.8	5926244	2.8	49307.4	6.9	15.5	4	-7.2	Negative
AyM_AR_MAG_0708	448214.9	5924623.3	4.3	49296.5	14.2	12.3	3.6	-8.6	Negative
AyM_AR_MAG_0709	448222	5919935	9.2	49385.3	36.4	30.1	4.9	22	Cable
AyM_AR_MAG_0710	448241	5923534	4.9	49282.1	15.5	27.5	4.6	-13.7	Dipole
AyM_AR_MAG_0711	448244	5919928	19.2	49393	62.4	41.4	4.5	69.5	Cable
AyM_AR_MAG_0712	448267.2	5919922.3	35.5	49386.1	145.2	39.7	4.2	93.7	Cable
AyM_AR_MAG_0713	448289	5922045	5.6	49309.1	21.5	43.8	3.7	5.8	Dipole
AyM_AR_MAG_0714	448300	5919911	6	49285.4	24.5	30.1	4.6	-1.9	Cable
AyM_AR_MAG_0715	448307	5925431	9.1	49303.4	31.3	30.6	3.7	19.3	Dipole
AyM_AR_MAG_0716	448311	5923876	4.2	49301.1	9.8	16.8	2.6	-10.8	Negative
AyM_AR_MAG_0717	448327.6	5920986.2	1	49283.4	8	46.9	4.6	0.7	Dipole
AyM_AR_MAG_0718	448331.2	5919896.6	5.1	49318.6	14.4	17.2	5	13.2	Cable
AyM_AR_MAG_0719	448370	5922529	1.2	49299.7	5.9	26.9	4.9	-1	Dipole
AyM_AR_MAG_0720	448381.2	5923773.1	1.6	49286.7	6.3	21.2	4.7	0.2	Dipole
AyM_AR_MAG_0721	448386	5919878	2.5	49352.5	7.2	29.9	4.8	-6.6	Cable
AyM_AR_MAG_0722	448390	5922362	2.7	49306	5.7	12	2.9	5.7	Positive
AyM_AR_MAG_0723	448404	5919873	3.4	49330	7.1	20.2	5	5.2	Cable
AyM_AR_MAG_0724	448421	5919868	2.9	49357.1	8.8	30	5	5.8	Cable
AyM_AR_MAG_0725	448422	5922504	6.5	49294	21.2	39.8	4.9	-10.5	Dipole
AyM_AR_MAG_0726	448435.6	5921575.7	1.2	49296.3	6.6	47.6	2.5	0.2	Dipole
AyM_AR_MAG_0727	448438	5919862	5.1	49337.1	17.6	30.1	4.6	-17.1	Cable
AyM_AR_MAG_0728	448441	5923751	4.1	49295.4	13	19.4	3.3	7.4	Positive
AyM_AR_MAG_0729	448452.6	5919856.4	5.1	49351.3	32.6	49.5	4.9	-1.2	Cable
AyM_AR_MAG_0730	448489	5923497.9	3.6	49319.8	17.2	50.2	4	12	Dipole
AyM_AR_MAG_0731	448495	5919837	4.4	49346.2	11.9	10.1	4.7	-12.3	Cable
AyM_AR_MAG_0732	448501	5919834	3.4	49370.9	18.9	29.8	4.8	2.2	Cable
AyM_AR_MAG_0733	448509	5919831	1.8	49374.5	7.8	24.9	4.4	5.5	Cable
AyM_AR_MAG_0734	448540	5925127	2.4	49312.1	6.6	18.2	2.5	3.3	Dipole
AyM_AR_MAG_0735	448552	5919814.9	1.7	49372.5	8.6	32	5	7.7	Cable
AyM_AR_MAG_0736	448558.7	5924643.5	8.9	49333.9	24.4	18	3.3	24.9	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0737	448573	5926433	7.7	49322.5	29.5	37.9	4.1	6.9	Dipole
AyM_AR_MAG_0738	448574	5919809	1.5	49373.2	6.2	24.6	5	0	Cable
AyM_AR_MAG_0739	448586	5927133	3.5	49296.8	13.1	36.3	4.1	-0.4	Dipole
AyM_AR_MAG_0740	448598.3	5919803.6	9.2	49356.7	54.6	31	4.6	11.1	Cable
AyM_AR_MAG_0741	448628	5919797	168.2	48955.7	550.7	77.8	4.4	-354.6	Cable
AyM_AR_MAG_0742	448660	5919781	4.7	49375.1	8.9	18.3	4.6	5.4	Cable
AyM_AR_MAG_0743	448688	5923337	2	49300.4	8.3	28.5	3.8	-2	Dipole
AyM_AR_MAG_0744	448698	5923423.1	2.5	49313.1	5.6	9.7	3.8	5.7	Positive
AyM_AR_MAG_0745	448701.8	5922103.9	1.7	49301.6	7.6	16.6	4.1	-1.2	Dipole
AyM_AR_MAG_0746	448707.4	5925757.9	5	49312.2	17.1	19.9	3.5	-1.5	Dipole
AyM_AR_MAG_0747	448710.8	5920771.4	2.2	49265.3	8.7	36.2	4.2	7	Dipole
AyM_AR_MAG_0748	448711.8	5919762.7	13	49328	43.5	18.9	4.5	-51.5	Cable
AyM_AR_MAG_0749	448723	5924907	9.7	49288.4	25.2	25.6	2.8	-20.3	Dipole
AyM_AR_MAG_0750	448742.9	5926605.5	4.1	49298.3	17.6	41.9	3.8	11.2	Dipole
AyM_AR_MAG_0751	448749.5	5924184	3.2	49298.1	10.1	14.3	3.8	6.2	Positive
AyM_AR_MAG_0752	448766	5919741	10.3	49424.4	19.2	29.6	4.9	18.3	Cable
AyM_AR_MAG_0753	448773.5	5927296.3	9	49284	24.8	34	3.9	-23.3	Negative
AyM_AR_MAG_0754	448786	5919733	4.4	49379.8	14.3	31.6	4.6	-4.5	Cable
AyM_AR_MAG_0755	448792	5924325	1.9	49316.4	5.2	18.3	3.4	6.5	Positive
AyM_AR_MAG_0756	448793.9	5927140.5	2.4	49313.3	8.6	18.1	3.4	-0.7	Dipole
AyM_AR_MAG_0757	448796	5919730	4.3	49432.8	16	30.7	4.5	2.2	Cable
AyM_AR_MAG_0758	448816	5919723.8	5.9	49358.6	17.4	42	3.8	-17.4	Cable
AyM_AR_MAG_0759	448827	5925418	3.8	49292.1	16.5	48.3	4.5	-8.2	Dipole
AyM_AR_MAG_0760	448832	5919717	2	49384.6	7.1	19.9	4.2	-0.3	Cable
AyM_AR_MAG_0761	448912	5919689	3.6	49376.2	12.8	9.1	4.4	-4.4	Cable
AyM_AR_MAG_0762	448928	5925926	1.6	49317.3	5.1	16.7	3.7	1.4	Dipole
AyM_AR_MAG_0763	448929	5919685	2.4	49423.2	9.2	19.4	5	1	Cable
AyM_AR_MAG_0764	448931	5921860	1	49302	5	61.1	3.8	1.1	Dipole
AyM_AR_MAG_0765	448951	5919678	3.9	49396.9	15.2	18.6	4.4	-7.9	Cable
AyM_AR_MAG_0766	448955.5	5925449.8	2.9	49318.5	9.9	15.7	3.8	5.3	Positive
AyM_AR_MAG_0767	448957	5921008	8.8	49315.9	32.1	30.4	3.1	14.5	Dipole
AyM_AR_MAG_0768	448958	5919676	3.7	49448	14.9	46.8	4.6	-5.4	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0769	448962.1	5926994.5	3.2	49288.5	11.6	26.4	4.1	-9.6	Negative
AyM_AR_MAG_0770	448966	5927315	1.8	49295.6	7	15.9	4	-1.2	Dipole
AyM_AR_MAG_0771	448989	5919663	23.5	49503.4	49.6	48.2	4.4	47.4	Cable
AyM_AR_MAG_0772	448998	5926584	3	49306.5	7.5	15.9	3.3	-7.6	Negative
AyM_AR_MAG_0773	449006	5919656	8.2	49550.2	33.9	57.8	4.2	-19.7	Cable
AyM_AR_MAG_0774	449020.9	5924109.4	12.8	49282.2	26.7	18	4.2	-28	Negative
AyM_AR_MAG_0775	449021	5919650	8.8	49411.3	31.9	19.6	3.8	-16.7	Cable
AyM_AR_MAG_0776	449025	5921911	4.2	49315	10.5	35.6	2.9	15.5	Positive
AyM_AR_MAG_0777	449046	5926032	2.4	49304	9.5	27.1	3.8	-9.4	Negative
AyM_AR_MAG_0778	449053	5923926	3	49312	7	34	4.3	6.5	Positive
AyM_AR_MAG_0779	449059	5919634	3.7	49399.6	10	29.2	4.9	-1.3	Cable
AyM_AR_MAG_0780	449062	5921347.6	3.4	49282.7	10.5	46.1	4.8	-12.7	Negative
AyM_AR_MAG_0781	449098	5919629	329.9	48557.1	1376.4	71.8	4.4	-748.5	Cable
AyM_AR_MAG_0782	449103	5919617	18.1	49412.6	267.1	19.2	4	-4.2	Cable
AyM_AR_MAG_0783	449111	5919615	12.2	49443.8	107.9	58.1	4.5	5.5	Cable
AyM_AR_MAG_0784	449112	5921352	2.5	49299	7	35.3	5	-6.7	Negative
AyM_AR_MAG_0785	449116	5926473	2.8	49288.9	10.3	33.7	3.8	0.3	Dipole
AyM_AR_MAG_0786	449145	5919605	1.8	49414.2	5.4	18.3	4.5	-1.7	Cable
AyM_AR_MAG_0787	449149	5919993	1.4	49298.3	5.6	19.4	4.3	0.1	Dipole
AyM_AR_MAG_0788	449155.9	5920459.4	15.8	49305	63.6	20.3	3.6	0.8	Dipole
AyM_AR_MAG_0789	449181	5919593	1.7	49383.6	8.3	18.8	4.4	3.6	Cable
AyM_AR_MAG_0790	449188	5919591	2.8	49419.2	7.9	28	4.5	6.7	Cable
AyM_AR_MAG_0791	449210	5924958	5.1	49290.8	16.3	16.5	2.9	8.6	Dipole
AyM_AR_MAG_0792	449228.4	5919576.6	1.5	49393.4	7.8	45.7	4.7	6.6	Cable
AyM_AR_MAG_0793	449252	5919566	3.2	49407.8	12.3	18.9	5	-2	Cable
AyM_AR_MAG_0794	449252	5923223	4	49299	7.7	14.4	2.4	-7.1	Negative
AyM_AR_MAG_0795	449268	5919560	2.8	49400.6	12.8	18	5.3	-1.4	Cable
AyM_AR_MAG_0796	449283	5920182	5.3	49312.7	14.8	16.8	3.9	12.9	Positive
AyM_AR_MAG_0797	449287.4	5923604.4	1	49304.1	5.5	28.2	3.3	2.3	Dipole
AyM_AR_MAG_0798	449313	5919544	4.9	49381.8	13.4	37.3	4.7	-16.1	Cable
AyM_AR_MAG_0799	449320	5919542	3.3	49392.5	12.9	19.1	4.7	-2.2	Cable
AyM_AR_MAG_0800	449334	5919537	3.8	49414.6	19	9.6	5	1.2	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0801	449351	5926775	1.4	49310	6.1	16.9	3.4	-0.2	Dipole
AyM_AR_MAG_0802	449355.2	5926456.9	2.5	49309.1	5.9	16	3.8	-5.8	Negative
AyM_AR_MAG_0803	449356	5919529	6.7	49410.6	16.1	19	4.5	-14.7	Cable
AyM_AR_MAG_0804	449361	5922176.5	3.2	49308.7	8.7	15.6	4.6	6.8	Positive
AyM_AR_MAG_0805	449370	5919524	4.7	49430.7	19.1	38.1	4.1	9.8	Cable
AyM_AR_MAG_0806	449376	5924582	2.9	49313.3	9.6	14.3	3	2.5	Dipole
AyM_AR_MAG_0807	449386	5919518	3.6	49425.1	12.4	19.1	4.6	1.8	Cable
AyM_AR_MAG_0808	449391.5	5927239.5	1.8	49310.2	5	16.3	4.3	5.4	Positive
AyM_AR_MAG_0809	449423	5925809	2.7	49318.9	11.2	25.3	3.6	2.3	Dipole
AyM_AR_MAG_0810	449425	5927303	2.2	49296.1	6.3	27.6	4.6	-6	Negative
AyM_AR_MAG_0811	449427.1	5925277.6	4.1	49304.9	10.6	26.3	4.4	-10.6	Negative
AyM_AR_MAG_0812	449432	5925691	1.9	49308.6	6.7	44.9	4.5	-4.4	Negative
AyM_AR_MAG_0813	449440	5924055	2.9	49306.1	6.9	21.9	3.9	-6.2	Negative
AyM_AR_MAG_0814	449469.5	5924153.5	1.8	49305.8	5.9	23.7	4.7	-6.5	Negative
AyM_AR_MAG_0815	449470	5919486	3.4	49388.6	12	30.2	4.3	-9.5	Cable
AyM_AR_MAG_0816	449501	5925939	3.1	49309.9	15.9	23.1	3.8	-2.2	Dipole
AyM_AR_MAG_0817	449501.7	5923601.3	4.8	49319.3	13.8	23.3	2.8	6.6	Dipole
AyM_AR_MAG_0818	449512.8	5926795.1	1.9	49291.7	5.1	17.5	3.9	-5.9	Negative
AyM_AR_MAG_0819	449545	5919469	5.6	49271.8	15.8	29	4.8	-15.9	Cable
AyM_AR_MAG_0820	449552	5919457	4.2	49402.2	11.4	25.8	5.9	8.1	Cable
AyM_AR_MAG_0821	449557	5919456	3.9	49400.4	19.5	17.6	5.5	6.8	Cable
AyM_AR_MAG_0822	449579.3	5927091.4	8.1	49271.5	19.4	28	3.9	-22.5	Negative
AyM_AR_MAG_0823	449586.7	5924979.6	5.3	49303	13.4	19	3.5	14.8	Positive
AyM_AR_MAG_0824	449604	5919443	3.9	49341.3	12.5	30	5.6	7.4	Cable
AyM_AR_MAG_0825	449604	5926249	3.2	49317.3	8.2	22.4	3.2	8	Positive
AyM_AR_MAG_0826	449617	5919438	3.6	49361.4	11.5	10	4.2	6	Cable
AyM_AR_MAG_0827	449631	5919431	5.2	49389.5	14.8	17.9	4.5	5.2	Cable
AyM_AR_MAG_0828	449639	5919428	4.1	49385.1	19.1	38.5	4.8	-10.8	Cable
AyM_AR_MAG_0829	449653	5919421	2.4	49394.7	13.4	19	4.7	-5.8	Cable
AyM_AR_MAG_0830	449668	5919414	2.7	49368.7	5.9	28.5	4.2	5.9	Cable
AyM_AR_MAG_0831	449671	5925255	1.6	49313.2	6.1	12.2	3.5	0.9	Dipole
AyM_AR_MAG_0832	449675	5926476	4.9	49305.7	16.6	33.6	4	-4.5	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0833	449679.3	5925793.8	2.1	49316.1	7.3	22.6	3.8	0.7	Dipole
AyM_AR_MAG_0834	449698	5922827	15.5	49360.9	37.5	30.8	4.4	42.5	Complex
AyM_AR_MAG_0835	449707	5923687	1.7	49308	6.2	23.6	5.5	4.2	Dipole
AyM_AR_MAG_0836	449734.7	5922504.2	1.8	49299.5	5.8	19.6	4	-3.1	Dipole
AyM_AR_MAG_0837	449736.2	5919388.5	2.2	49353.3	6.8	38.2	5.7	9.4	Cable
AyM_AR_MAG_0838	449739	5922813	18.7	49344	72.3	37.6	4.6	31.4	Complex
AyM_AR_MAG_0839	449760	5919384	1.8	49441.5	5.8	24.2	5.1	3.7	Cable
AyM_AR_MAG_0840	449767	5920167	4.5	49310.8	18.4	45.5	4	11.9	Positive
AyM_AR_MAG_0841	449768	5924598	3.5	49292.9	9.2	20.6	3.5	-9.1	Negative
AyM_AR_MAG_0842	449790	5923028	2.2	49298.4	6	23.2	3.5	-7.6	Negative
AyM_AR_MAG_0843	449798.4	5919374.1	5.5	49350.7	17.8	26.6	6.3	18.5	Cable
AyM_AR_MAG_0844	449812	5924282	1.3	49308.1	5.2	14.6	3	-0.6	Dipole
AyM_AR_MAG_0845	449817	5919366	3.7	49383.3	10.1	26.1	5.2	-5	Cable
AyM_AR_MAG_0846	449825	5919362	4.1	49391	13.4	26.7	6.6	10.7	Cable
AyM_AR_MAG_0847	449827	5924276	4.6	49320.4	9.9	15.8	2.9	10.5	Positive
AyM_AR_MAG_0848	449839.2	5925977.2	5.2	49336.9	15.2	29.8	4	14.1	Dipole
AyM_AR_MAG_0849	449842.2	5921463.5	61.4	49409.1	135.5	24.4	2.9	122.2	Positive
AyM_AR_MAG_0850	449849.8	5924409.3	2.6	49302.3	6.4	16.7	4.1	-7.2	Negative
AyM_AR_MAG_0851	449853	5927309	39	49268.6	147.7	35.3	4	-40.7	Dipole
AyM_AR_MAG_0852	449887.6	5924253.7	3.8	49305.4	12	16.1	2.8	-2.8	Dipole
AyM_AR_MAG_0853	449904	5922518	3.4	49317.8	8.7	13.9	3.6	8.5	Positive
AyM_AR_MAG_0854	449939	5923914	3	49319.3	8.9	16.5	3.5	8.3	Positive
AyM_AR_MAG_0855	449944.5	5921264.8	2.4	49292.6	5.5	15.5	4.4	5.3	Positive
AyM_AR_MAG_0856	449953	5925677	2.8	49316.6	13.1	40.5	4	0.5	Dipole
AyM_AR_MAG_0857	449959	5919316	4.4	49358	23.8	28.2	4.4	5.8	Cable
AyM_AR_MAG_0858	449977.9	5927263.7	3.4	49317.5	11.2	13.8	3.1	8.5	Positive
AyM_AR_MAG_0859	449983	5919310	10.2	49393.4	42.6	37	4.8	-8	Cable
AyM_AR_MAG_0860	450014	5919296	8.1	49346.2	18.4	54.6	4.7	12.1	Cable
AyM_AR_MAG_0861	450033	5923879	2.8	49311.4	10.8	17.4	3.9	-0.1	Dipole
AyM_AR_MAG_0862	450037	5919293	142.8	48897.8	438.8	113.6	4.2	-403.3	Cable
AyM_AR_MAG_0863	450040.8	5923965.1	7.2	49286.2	18	21.4	3.5	-19.7	Negative
AyM_AR_MAG_0864	450042	5919281	9.1	49322.8	63.7	54.3	4	-0.6	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0865	450059	5925665	2.5	49306.1	7.5	29.5	4.2	-7.6	Negative
AyM_AR_MAG_0866	450088	5919423	7.2	49294.6	96.9	51.3	4	-3.9	Dipole
AyM_AR_MAG_0867	450094	5926986	4	49313.1	9.8	15	4	10.3	Positive
AyM_AR_MAG_0868	450095	5919422	52.3	49174.7	122.4	38.3	3.7	-122.5	Dipole
AyM_AR_MAG_0869	450101	5926145	2.3	49313.1	7.2	21.6	3.6	-3	Dipole
AyM_AR_MAG_0870	450133	5919248	2.3	49349.8	7.2	27	5	5.9	Cable
AyM_AR_MAG_0871	450143.6	5924862.2	2.7	49305.7	7.3	24.6	3.5	-8.7	Negative
AyM_AR_MAG_0872	450157	5922992	6.5	49322.4	32.5	51.1	5.2	3.5	Dipole
AyM_AR_MAG_0873	450167	5924620	12.5	49239.5	31.8	28.2	4.4	-38.9	Negative
AyM_AR_MAG_0874	450179	5922501	5.9	49310.6	20.1	20	2.7	0.9	Dipole
AyM_AR_MAG_0875	450180	5919240	3.4	49288.3	9.9	26.2	5.4	-7.2	Cable
AyM_AR_MAG_0876	450186	5923355	2.8	49311.4	9.9	17.9	4.3	-1.8	Dipole
AyM_AR_MAG_0877	450199	5919234	4.4	49216	13.6	20.3	4.9	9.4	Cable
AyM_AR_MAG_0878	450208	5919230	6.3	49216.9	21.9	25.8	5	-15.5	Cable
AyM_AR_MAG_0879	450223	5924880	1.7	49317.2	5.8	20	4	-1.3	Dipole
AyM_AR_MAG_0880	450227.1	5923501.2	1.7	49309	6.9	29.1	4.2	2.5	Dipole
AyM_AR_MAG_0881	450230	5926858	2	49292.9	6.6	19	4	-5	Negative
AyM_AR_MAG_0882	450230	5921797	4.6	49286.3	12.5	16.9	3.5	-12.7	Negative
AyM_AR_MAG_0883	450232	5924272	3.2	49301.8	10.5	16.1	2.9	-9.4	Negative
AyM_AR_MAG_0884	450235	5919212	7.4	49311.1	24.2	33.6	4.6	-22.5	Cable
AyM_AR_MAG_0885	450239	5924900	3	49303.1	7.4	15.4	4.1	-7.3	Negative
AyM_AR_MAG_0886	450240	5919208	4.7	49342.2	27.9	33.9	4.1	-0.8	Cable
AyM_AR_MAG_0887	450278	5925985	4.9	49300.6	12.3	41.2	3.9	-13.6	Dipole
AyM_AR_MAG_0888	450280.7	5926357.3	3.3	49325.8	7.6	10.9	2.8	5	Dipole
AyM_AR_MAG_0889	450281.4	5922162.3	2.6	49311.7	6.6	13.4	3.7	6.8	Positive
AyM_AR_MAG_0890	450323	5920170	2.1	49306.2	8.7	28.8	3.7	5.7	Positive
AyM_AR_MAG_0891	450336	5919178	2.1	49367.2	8.2	18.4	5.4	-3.4	Cable
AyM_AR_MAG_0892	450346	5919177	5.8	49385	17.9	18.3	5.5	13.8	Cable
AyM_AR_MAG_0893	450362	5926974	6.6	49317.4	24.7	29.9	4.2	13.7	Dipole
AyM_AR_MAG_0894	450363.3	5919171.8	9.9	49388.7	20.3	37	4.5	17.4	Cable
AyM_AR_MAG_0895	450368	5926887	3.9	49308.9	12.3	21.3	4	6.2	Dipole
AyM_AR_MAG_0896	450393	5919162	2.4	49327.1	6.1	18.3	3.9	4.9	Cable

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0897	450400.1	5925543	1.4	49321.4	5.9	52	3.8	5	Dipole
AyM_AR_MAG_0898	450408	5919156	1.8	49369.1	6.6	36.4	4.9	0.8	Cable
AyM_AR_MAG_0899	450411	5924600	1.6	49312.6	6	39.4	3.9	-0.2	Dipole
AyM_AR_MAG_0900	450429.6	5925525	2.2	49323.5	10.5	53.8	3.8	7.3	Complex
AyM_AR_MAG_0901	450482	5926051	10.1	49347.3	26.9	25.9	3.1	28.4	Positive
AyM_AR_MAG_0902	450501	5919113	5.1	49335.5	78.7	33.3	5.6	3.1	Cable
AyM_AR_MAG_0903	450509.8	5926138.4	5.3	49307.6	13.9	18.9	3.1	-12.6	Dipole
AyM_AR_MAG_0904	450512	5919123	156.2	48986	650.9	108.4	4.7	-355.5	Cable
AyM_AR_MAG_0905	450512	5922540	7.2	49300.9	30.8	62.2	4.2	-4.9	Dipole
AyM_AR_MAG_0906	450516	5926038	2.5	49315.9	9.3	14.9	3.5	-1.4	Dipole
AyM_AR_MAG_0907	450517	5924883	2.6	49318.9	9.9	20	4.2	0.3	Dipole
AyM_AR_MAG_0908	450520	5926586	12.3	49357.7	30.8	18.9	3.8	35.2	Positive
AyM_AR_MAG_0909	450568	5924241.2	1.9	49318.8	5.2	18.5	5.4	5.1	Positive
AyM_AR_MAG_0910	450573	5919092	1.9	49375.7	7.8	17.5	4.6	-4.9	Cable
AyM_AR_MAG_0911	450577.4	5927206.6	0.6	49323.1	5.2	27.9	3.9	0.3	Dipole
AyM_AR_MAG_0912	450578	5919090	1.7	49377.8	8.2	18.7	5.1	0.2	Cable
AyM_AR_MAG_0913	450621.6	5925148.5	2.4	49325.3	7	24.6	3.4	7.9	Positive
AyM_AR_MAG_0914	450624	5922886	1	49309.3	6.5	24.9	4.7	2	Dipole
AyM_AR_MAG_0915	450627	5922891	1.7	49296.7	5.6	27.3	5.5	-2.3	Dipole
AyM_AR_MAG_0916	450631.9	5925924.2	2.6	49285.5	9.6	28.9	4	-7.5	Dipole
AyM_AR_MAG_0917	450660	5919058	3.3	49356.3	9.7	19	5.1	5.8	Cable
AyM_AR_MAG_0918	450697	5919047	5.1	49373	27	26.9	4.6	-13.9	Cable
AyM_AR_MAG_0919	450714	5919040	11.8	49420.3	27.8	34.6	4	30.1	Cable
AyM_AR_MAG_0920	450714	5924754	17.1	49287.4	46.9	79	4.3	-41.9	Dipole
AyM_AR_MAG_0921	450714.2	5926920.7	12.5	49343.6	28.4	16.9	3.5	28.4	Positive
AyM_AR_MAG_0923	450742.9	5924334.6	7.4	49333.7	19.7	23.3	4.2	21.2	Positive
AyM_AR_MAG_0924	450758	5922211	7.4	49328.1	16.2	17.2	4.1	17	Positive
AyM_AR_MAG_0925	450764	5925812	3.2	49320.4	10.2	20.3	3.6	5	Dipole
AyM_AR_MAG_0926	450767	5922676	7.5	49290.8	25.4	28.3	4.3	-19.2	Negative
AyM_AR_MAG_0927	450786	5924933	1.2	49312.9	5.5	19.8	4.1	0	Dipole
AyM_AR_MAG_0928	450788	5922527	2.5	49300.9	9.5	23.3	3.5	0.9	Dipole
AyM_AR_MAG_0929	450811	5924776	2	49321.7	5	15.4	4.2	5.1	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0930	450842	5925298	25.8	49357	94.1	32.5	3.7	42.4	Dipole
AyM_AR_MAG_0931	450882	5925832	2	49295.8	6.1	29.6	4	4.6	Positive
AyM_AR_MAG_0932	450883	5922634	3.1	49314.3	9.1	18.3	3	6.2	Dipole
AyM_AR_MAG_0933	450889	5925599	12.3	49280.6	38.4	49.3	3.9	-34.9	Dipole
AyM_AR_MAG_0934	450893.7	5925212.3	43.6	49316.9	152.9	57.9	3.9	-1.5	Dipole
AyM_AR_MAG_0935	450901.2	5923884	1.7	49312	5.2	19.7	3.6	5.6	Positive
AyM_AR_MAG_0936	450913	5920917	2.7	49282.2	10.8	24.7	4	5.4	Dipole
AyM_AR_MAG_0937	450948.1	5921835.8	4.7	49314.8	15.5	49	4.4	11.2	Dipole
AyM_AR_MAG_0938	450997.9	5925231.6	14.3	49310.1	59.4	22.7	5	23.2	Dipole
AyM_AR_MAG_0939	450998	5926181	16.9	49298.9	56.5	26.4	3.6	-12.7	Dipole
AyM_AR_MAG_0940	451003	5924390	6	49340.3	16.4	53.1	4.6	22.2	Dipole
AyM_AR_MAG_0941	451029	5925626	3.2	49322.3	8.2	12.8	3.3	6.9	Positive
AyM_AR_MAG_0942	451047.7	5925224.5	1.1	49316.2	8	32	3	-0.1	Dipole
AyM_AR_MAG_0943	451055.4	5925371.4	49.1	49458.4	125.1	23	3.7	140.2	Dipole
AyM_AR_MAG_0944	451068	5925697.5	1.7	49319.2	12.1	40	3.7	0.3	Dipole
AyM_AR_MAG_0945	451095.4	5924896	1.3	49315.3	9.1	29.5	4.3	-0.6	Dipole
AyM_AR_MAG_0946	451109.4	5926981.4	1.3	49304.4	5.7	23.8	4.1	0.4	Dipole
AyM_AR_MAG_0947	451112.2	5923183	2.1	49315.2	6	22.4	3.6	6.4	Positive
AyM_AR_MAG_0948	451146.7	5927452.5	1.9	49304.3	6.3	30.4	3.1	-5.1	Negative
AyM_AR_MAG_0949	451248	5925310	2.7	49323.2	7.5	17.4	3.7	8.6	Positive
AyM_AR_MAG_0950	451250	5925547	8.9	49334.9	24.4	9.4	3	19.2	Positive
AyM_AR_MAG_0951	451290.7	5925530.9	5.8	49306.4	12.2	11.7	2.9	-10	Negative
AyM_AR_MAG_0952	451304	5923037	2.5	49305.4	5.7	12.3	3.7	-5.1	Negative
AyM_AR_MAG_0953	451307.6	5923881.8	3.3	49305.2	7.6	16.9	3.6	-8.3	Negative
AyM_AR_MAG_0954	451328	5925908	3.3	49320.5	17.3	28.2	4.4	7.3	Dipole
AyM_AR_MAG_0955	451331	5923405	3	49292.3	8.3	15.5	3.2	8.4	Positive
AyM_AR_MAG_0956	451339.1	5923401.6	3.2	49285	14.9	22.5	2.7	0.4	Dipole
AyM_AR_MAG_0957	451341	5927382	2.2	49304.1	5.1	21.3	3.6	-5.6	Negative
AyM_AR_MAG_0958	451425	5927350	3.9	49306.5	11.5	33.7	2.9	-3.4	Dipole
AyM_AR_MAG_0959	451464	5927149	7.1	49332.2	28.4	28.5	3.9	-2.2	Dipole
AyM_AR_MAG_0960	451502	5927262	3.5	49334.8	13.8	41.5	4.1	1.8	Dipole
AyM_AR_MAG_0961	451511.7	5923433.1	2.4	49304.7	5.6	16.9	3.7	-6.2	Negative

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0962	451548	5920375.8	0.8	49304.8	5.6	25.7	3.2	0.4	Dipole
AyM_AR_MAG_0963	451548	5923029	34.3	49283.2	122.5	41.6	2.7	-27.3	Dipole
AyM_AR_MAG_0964	451572.6	5924256.7	3.3	49300	7.5	18	3.8	6.6	Positive
AyM_AR_MAG_0965	451609.4	5923537.2	3	49302.2	10.7	24.2	6.4	-8.8	Negative
AyM_AR_MAG_0966	451639	5921350	10.2	49274.5	38.1	48.3	4.7	26.4	Dipole
AyM_AR_MAG_0967	451679	5926104	9	49296.2	22.5	15.9	3.8	-23.3	Negative
AyM_AR_MAG_0968	451738	5922183	3.9	49293.5	11.3	15.1	3.2	-8.9	Negative
AyM_AR_MAG_0969	451740.3	5924508.9	2.7	49298.8	5.6	14.8	3.4	6	Positive
AyM_AR_MAG_0970	451743	5926390	5.4	49292	13.9	15.9	4.3	-13.6	Negative
AyM_AR_MAG_0971	451760	5926222	4.2	49309.1	18	40.2	4.1	-3.6	Dipole
AyM_AR_MAG_0972	451776	5925823	4.4	49337.1	13.1	17.1	3.8	11.1	Positive
AyM_AR_MAG_0973	451790	5927467	2.1	49332	9	28.6	4.2	3.9	Dipole
AyM_AR_MAG_0974	451836	5925024	2	49319.8	7.9	38.5	4	0.5	Dipole
AyM_AR_MAG_0975	451872.2	5920257.8	2.4	49306.7	15.3	30	4.9	0.5	Dipole
AyM_AR_MAG_0976	451888.3	5926259.9	8.5	49281.5	20.9	18.3	3.5	-21.1	Negative
AyM_AR_MAG_0977	451908.1	5925850.3	1.5	49317	5.8	18.3	3.9	-0.3	Dipole
AyM_AR_MAG_0978	451947.2	5926386.2	8.6	49327.9	30.7	36.9	4.2	7.4	Dipole
AyM_AR_MAG_0979	451962	5924510	2.1	49322.5	6.6	39.9	4.2	5.3	Positive
AyM_AR_MAG_0980	451964	5923813	2.9	49320.3	8.3	42.1	4.3	9.6	Positive
AyM_AR_MAG_0981	451967	5926465	2.3	49321.9	5.7	14.7	3.4	3.9	Dipole
AyM_AR_MAG_0982	452020	5926361	2.4	49325.9	8.2	22.6	4.1	5.3	Positive
AyM_AR_MAG_0983	452028	5923706	3.9	49299.4	9.6	10.1	3	7	Dipole
AyM_AR_MAG_0984	452043	5923701	4.5	49302.4	10.4	11.1	2.8	9.5	Positive
AyM_AR_MAG_0985	452057.9	5927283.2	42	49240.8	149.9	40.5	4	-91.7	Dipole
AyM_AR_MAG_0986	452061.7	5926578.1	3.8	49326.8	11.2	19.5	4.2	5.4	Dipole
AyM_AR_MAG_0987	452083	5924782	3.3	49303.8	6.7	13.2	3.3	-6.7	Negative
AyM_AR_MAG_0988	452098.4	5924164.7	11.1	49297.5	37.1	16	3.4	-22	Dipole
AyM_AR_MAG_0989	452108	5923454	3.2	49303.3	9	18.4	4	9.6	Positive
AyM_AR_MAG_0990	452108.4	5922986.2	1.8	49301.2	5.2	19.5	3.7	4	Dipole
AyM_AR_MAG_0991	452118	5924998	2.8	49309.9	7.5	14	3.3	-7.2	Negative
AyM_AR_MAG_0992	452119.7	5923755.3	2	49312.2	7.6	22	4.1	4.3	Dipole
AyM_AR_MAG_0993	452132	5927024	3.8	49299	10.2	24.2	3.9	-9.7	Negative

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_0994	452134	5920469	9.6	49252.5	24.7	47.5	6	-29	Negative
AyM_AR_MAG_0995	452155	5923599	2	49313	7.1	40	3.4	4	Dipole
AyM_AR_MAG_0996	452271	5923787	7.8	49335.5	19.5	28.3	4	15.4	Dipole
AyM_AR_MAG_0997	452287	5923782	3.7	49327.9	11.9	17.1	3.5	8	Positive
AyM_AR_MAG_0998	452288	5924947	9.3	49266.4	28.7	26.1	6.1	-31.7	Negative
AyM_AR_MAG_0999	452304	5926190	13.2	49284.5	50.7	24	4	-23.7	Dipole
AyM_AR_MAG_1000	452311	5921534	4.2	49304.2	18.3	37.1	4.3	8.6	Dipole
AyM_AR_MAG_1001	452316	5926659	1.6	49326.2	7.8	25.3	4	1.6	Dipole
AyM_AR_MAG_1002	452320	5921496	5.7	49321.9	18	10.3	4.5	7	Dipole
AyM_AR_MAG_1003	452321	5926548	1.7	49321	6.8	41.6	4	-1.3	Dipole
AyM_AR_MAG_1004	452340	5926479	3.4	49316	9.9	23.2	4.4	-7.4	Negative
AyM_AR_MAG_1005	452355.8	5926561.5	1.7	49328.8	7	15.7	3.9	-0.5	Dipole
AyM_AR_MAG_1006	452355.9	5923671.2	2.5	49313.2	11.5	51.4	3.6	3.4	Dipole
AyM_AR_MAG_1007	452383	5926395	4.8	49324.1	19	25.8	3.9	7.5	Dipole
AyM_AR_MAG_1008	452413.1	5924202.1	2.1	49305.1	8.7	21.3	3.5	-1	Dipole
AyM_AR_MAG_1009	452426.4	5924182.5	3.3	49308.5	8.9	22.2	4.2	8.2	Positive
AyM_AR_MAG_1010	452473	5923232	2.9	49318.4	8.9	18.2	3.3	5.4	Dipole
AyM_AR_MAG_1011	452508.1	5922522.9	1.9	49307.6	5	32.9	5	-6.6	Negative
AyM_AR_MAG_1012	452516.1	5927350.9	2.4	49323	7.2	16.6	4.3	-6.8	Negative
AyM_AR_MAG_1013	452530	5922436	1.3	49308.9	5.5	21.2	4.7	0.6	Dipole
AyM_AR_MAG_1014	452550	5926334	1.5	49319	5.2	11.9	3.3	1.5	Dipole
AyM_AR_MAG_1015	452579	5927366	1.7	49329.9	5.8	36.8	3.9	3.8	Positive
AyM_AR_MAG_1016	452580.1	5925844.7	5.3	49335.5	10.6	14.5	3.9	10.6	Positive
AyM_AR_MAG_1017	452620	5926686	3.3	49310.1	9.1	19.1	4.3	6.7	Positive
AyM_AR_MAG_1018	452634.3	5925371.3	1.4	49325.7	5	14.5	3.7	0.7	Dipole
AyM_AR_MAG_1019	452638	5924504	2.8	49297.5	11.4	32.2	5.5	-5.5	Dipole
AyM_AR_MAG_1020	452642	5927161	3.1	49336.8	10.8	29.7	3.3	6.4	Positive
AyM_AR_MAG_1021	452671	5924325	2.3	49313.5	7.5	19.7	3.9	8.5	Positive
AyM_AR_MAG_1022	452713.3	5925482.5	2.8	49326.5	9.5	15.8	3.3	-0.5	Dipole
AyM_AR_MAG_1023	452727	5927209	1.4	49331.7	5.9	9.1	4	1.9	Dipole
AyM_AR_MAG_1024	452761.3	5924610.4	3.8	49303.3	8.2	12.8	4.1	6.6	Dipole
AyM_AR_MAG_1025	452764	5920948	2.9	49281.3	12.1	30.9	4	5.3	Complex

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1026	452787	5923030	1.2	49303.2	5.7	37	4.9	2.5	Dipole
AyM_AR_MAG_1027	452790	5925457	5.3	49334.1	21.2	20.8	3.6	6.8	Positive
AyM_AR_MAG_1028	452803.2	5925528.7	2.3	49324.7	5.6	15.5	3.5	5.8	Positive
AyM_AR_MAG_1029	452816.1	5925996.4	5.4	49307.8	21.9	22.4	4.1	0.7	Dipole
AyM_AR_MAG_1030	452824	5925760	2.1	49317.6	6.3	14.1	3.3	-6.6	Negative
AyM_AR_MAG_1031	452873	5923172	3.3	49295.8	12.3	16	3.8	1.5	Dipole
AyM_AR_MAG_1032	452876	5925585	2.5	49293.7	6.1	25.7	4.3	-5.6	Negative
AyM_AR_MAG_1033	452905	5925806	2.5	49319.3	6.6	39.9	4.2	5.8	Positive
AyM_AR_MAG_1034	452942.2	5925025.9	4.9	49312.3	12.9	14.2	3	5	Dipole
AyM_AR_MAG_1035	452945.9	5924314.8	3.9	49320.6	15.5	22.8	4.6	0.1	Dipole
AyM_AR_MAG_1036	452964	5924467	2.4	49314.2	8.5	27.1	4.5	2.3	Dipole
AyM_AR_MAG_1037	452966.1	5926636	3.7	49322.6	8.7	12.6	3.9	9.1	Positive
AyM_AR_MAG_1038	452991	5925007	3.3	49325.5	13.6	19.9	4	-1.1	Dipole
AyM_AR_MAG_1039	453027	5926775	3.9	49313.8	13.7	32.9	3.8	3	Dipole
AyM_AR_MAG_1040	453052	5924737	1.9	49306.7	6.5	23.5	3.7	2.1	Dipole
AyM_AR_MAG_1041	453086	5923807	4.8	49315.5	19	24.4	4	-5.5	Dipole
AyM_AR_MAG_1042	453095	5925674	1.8	49308.2	6.3	13.2	3.3	0.5	Dipole
AyM_AR_MAG_1043	453114	5927392	3.9	49342.5	14.8	48.5	4.9	12	Dipole
AyM_AR_MAG_1044	453125.9	5923083.2	2	49298.4	6.9	14.2	4.4	4.9	Positive
AyM_AR_MAG_1045	453130.3	5924634	23	49265.1	54.8	21.2	3.6	-37.9	Negative
AyM_AR_MAG_1046	453182	5924689	4.2	49313	11.6	20.8	4.4	7.6	Dipole
AyM_AR_MAG_1047	453229	5922725	2.3	49289	7.7	15.4	3.7	1.4	Dipole
AyM_AR_MAG_1048	453255	5925287	3.2	49321.7	8.1	12.8	3.6	-7.5	Negative
AyM_AR_MAG_1049	453295	5923250	13.9	49253.4	33.5	37.2	2.7	-37.9	Negative
AyM_AR_MAG_1050	453368.5	5923923.1	2.7	49285.8	7.5	21.3	3.7	-7.4	Negative
AyM_AR_MAG_1051	453392	5924153	1.8	49315.1	5.9	16.9	3.9	-6.1	Negative
AyM_AR_MAG_1052	453567	5925655	2	49301.6	6.6	15.3	4.7	-4.8	Negative
AyM_AR_MAG_1053	453608.2	5923621.3	1.4	49327	5.2	18.9	3.3	5.1	Negative
AyM_AR_MAG_1054	453643	5923607	2.3	49325.8	5.2	9.3	4	4.6	Positive
AyM_AR_MAG_1055	453651	5922194	4	49279.5	11.2	18.2	3.8	-10.4	Negative
AyM_AR_MAG_1056	453684	5926536	2.3	49321	5.8	20.8	3.8	7.2	Positive
AyM_AR_MAG_1057	453719	5925983	3.8	49335.1	8.7	27.6	4.5	8.3	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1058	453739	5923026	27.5	49327.1	124.3	39.2	4.5	18.3	Dipole
AyM_AR_MAG_1059	453764	5925030	7.3	49284.3	19.8	41.8	4.6	-17.1	Complex
AyM_AR_MAG_1060	453785.7	5923241.1	884.7	51346	2016.6	29.3	4	1943.8	Complex
AyM_AR_MAG_1061	453808	5927121	1.8	49320	8.3	16.4	3.7	0.3	Dipole
AyM_AR_MAG_1062	453837	5925871	4.3	49313.6	9.5	18.1	3	-8.2	Negative
AyM_AR_MAG_1063	453849.1	5921565.9	16.1	49369.5	47.1	47.9	3.9	52.7	Positive
AyM_AR_MAG_1064	453886	5927092	5.1	49331.1	15.4	40	4.9	11	Dipole
AyM_AR_MAG_1065	453906.8	5924197.1	4.1	49298.2	14.4	19.9	3.9	0.8	Dipole
AyM_AR_MAG_1066	454026	5926575	2.6	49331	7.7	20.6	4	5.4	Positive
AyM_AR_MAG_1067	454035.4	5922689.1	1.8	48742.3	5.5	17.4	8.5	5.4	Positive
AyM_AR_MAG_1068	454059.8	5925244.5	4	49312.2	8.6	14.8	3.8	7.3	Positive
AyM_AR_MAG_1069	454084	5922503	8.1	49230.5	31.9	39.6	4.6	25.1	Positive
AyM_AR_MAG_1070	454095.8	5923976.7	2	49307.4	5.9	27.6	4.2	4.6	Positive
AyM_AR_MAG_1071	454100.1	5924212	2.3	49328.7	9.7	43.8	4.2	6.6	Dipole
AyM_AR_MAG_1072	454161	5922385	9.8	49301.8	24.7	39.5	3.2	22.7	Dipole
AyM_AR_MAG_1073	454212	5924322	3.7	49318	9.7	15.7	4.8	10.2	Positive
AyM_AR_MAG_1074	454217	5925182	22.3	49363.9	59.6	20.8	4.1	38.6	Dipole
AyM_AR_MAG_1075	454248.8	5926813.4	7.9	49352.1	25.8	55.5	4.8	24.4	Positive
AyM_AR_MAG_1076	454255	5924352	2	49324	7.4	27.3	4.8	-2.8	Dipole
AyM_AR_MAG_1077	454266	5925235.8	3.1	49328.7	7.8	17.4	4.4	9.3	Positive
AyM_AR_MAG_1078	454270	5927107	5.1	49320	18.7	19.6	4.5	-7.2	Dipole
AyM_AR_MAG_1079	454273.6	5922198.4	3.3	49285.4	9.1	26.3	4.8	12.1	Positive
AyM_AR_MAG_1080	454281.7	5925004.7	8.5	49322.7	36.4	25	3.7	-1.6	Dipole
AyM_AR_MAG_1081	454296	5926318	4.3	49322.2	14.4	29.6	2.9	8.9	Dipole
AyM_AR_MAG_1082	454299.8	5922151	5.9	49252.1	14.1	20.7	2.5	17.2	Positive
AyM_AR_MAG_1083	454315	5923660	2.2	49307.6	5.7	22.5	4.8	-6.1	Negative
AyM_AR_MAG_1084	454352	5927000	13.5	49329.8	53.2	51.8	3.6	-2.2	Dipole
AyM_AR_MAG_1085	454368	5925681	1.4	49324.9	5.3	15.8	4.3	3	Dipole
AyM_AR_MAG_1086	454375	5923959	30.8	49308.2	116.8	52	3.7	-3.4	Dipole
AyM_AR_MAG_1087	454392	5923287	2.3	48282.7	8.3	25.6	3.9	0.7	Dipole
AyM_AR_MAG_1088	454407	5924641	21.4	49367.8	97.2	29.4	3.6	56	Dipole
AyM_AR_MAG_1089	454418	5925964	3.9	49303	16.4	48.5	4.2	-6.4	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1090	454425	5922844	1.9	49294.2	8.1	11.8	2.5	4.6	Dipole
AyM_AR_MAG_1091	454429	5926269	3.3	49320.1	7.5	38.7	3.1	6.5	Positive
AyM_AR_MAG_1092	454456.2	5923073.8	3.8	49245.2	9.1	38.5	3.3	-8.2	Dipole
AyM_AR_MAG_1093	454463.2	5927119.4	1.7	49341.3	5.7	16.7	4.5	5.6	Positive
AyM_AR_MAG_1094	454476	5924846	2.5	49335.4	6.8	10.1	4.5	5.3	Positive
AyM_AR_MAG_1095	454479	5924378	3.5	49328.3	7.7	12.4	3.7	7.5	Positive
AyM_AR_MAG_1096	454510	5922982	11.1	49313	70.2	26.3	4.4	4.4	Dipole
AyM_AR_MAG_1097	454546.8	5925063.7	4.7	49288.8	20	18.6	4.3	-14	Negative
AyM_AR_MAG_1098	454548.5	5925065.1	8.2	49296.5	19.7	22.2	4.3	-21	Negative
AyM_AR_MAG_1099	454583.9	5922865.8	4.6	49310.1	20.8	61.1	4.2	13.7	Dipole
AyM_AR_MAG_1100	454633.9	5926031.4	2.3	49307.1	7.4	21.6	4	-9.1	Negative
AyM_AR_MAG_1101	454645.8	5926818.1	8	49299	22.1	53.4	4	-22.2	Dipole
AyM_AR_MAG_1102	454647.3	5922760.6	5.8	49242.2	20.6	27.6	2.8	-19.3	Dipole
AyM_AR_MAG_1103	454649	5922215	2.2	49262.7	6.7	15.2	3.5	-6.7	Negative
AyM_AR_MAG_1104	454711	5927468	1.5	49306.2	7.3	33.5	5	1.8	Dipole
AyM_AR_MAG_1105	454751	5926856	2.6	49331.4	11.5	32.8	4.4	-1.2	Dipole
AyM_AR_MAG_1106	454785	5921996	7	49292.6	19.5	14.8	3.1	19.2	Dipole
AyM_AR_MAG_1107	454798	5921992	7.1	49253.5	22.1	26.5	3.1	-19.5	Complex
AyM_AR_MAG_1108	454801	5923803	2.5	49022.6	10.6	30.4	3.2	1.4	Cable
AyM_AR_MAG_1109	454821	5926161	1.9	49335.8	5.9	34.3	4.6	3.5	Dipole
AyM_AR_MAG_1110	454848	5923703	2.6	49276.1	9.5	23.3	4.1	9.5	Cable
AyM_AR_MAG_1111	454887.7	5923613.4	11.6	49344.6	31.6	29.9	3.6	34.5	Positive
AyM_AR_MAG_1112	454928.3	5923533.9	3.8	49284.5	24.6	40.4	4.1	0.2	Cable
AyM_AR_MAG_1113	454930	5923168	1.1	49281.6	5.1	29.6	4.1	1.7	Dipole
AyM_AR_MAG_1114	454934.4	5923519.3	3.1	49293.7	17.1	31.2	4	-0.2	Cable
AyM_AR_MAG_1115	454981.7	5923418.8	3.8	49284.8	13.9	34.6	4.1	-10.9	Dipole
AyM_AR_MAG_1116	454996	5926856	3.2	49326.7	13.8	34.4	6	-1.2	Dipole
AyM_AR_MAG_1117	454997	5923387	5.9	49247.3	18.6	36.3	4	-22.3	Negative
AyM_AR_MAG_1118	455001	5923366	5	49267.7	17.4	44.2	4.3	15.4	Complex
AyM_AR_MAG_1119	455053	5926282	1.9	49331.6	7.3	20.3	4.2	1.3	Dipole
AyM_AR_MAG_1120	455088	5926031	3.3	49322.7	8	20.1	2.7	7.9	Positive
AyM_AR_MAG_1121	455096	5924471	2.9	48660.7	6.5	5.1	4.7	6.6	Positive

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1122	455097	5926274.8	7.4	49322.5	17.4	32.3	3.9	-14.7	Dipole
AyM_AR_MAG_1123	455136.5	5925638	4.1	49330.5	18.1	20.9	4.3	0.9	Dipole
AyM_AR_MAG_1124	455149	5924452	3.2	48487.1	11.8	18.6	3.9	7.8	Positive
AyM_AR_MAG_1125	455154.3	5924378.9	2.2	49207.4	14.1	34.2	5.3	-3.4	Dipole
AyM_AR_MAG_1126	455177	5925625	2.6	49318.8	18.5	29.5	4.3	-7	Dipole
AyM_AR_MAG_1127	455233.2	5927077.3	5.5	49339	34.5	48.3	4	4.7	Dipole
AyM_AR_MAG_1128	455242	5925839	3.2	49322.5	9.9	26.3	4.1	9.8	Positive
AyM_AR_MAG_1129	455262	5924224	7.3	49318	26.9	50.5	4.3	24.4	Positive
AyM_AR_MAG_1130	455285	5924181	3.2	49327.1	9.7	24.4	4.8	9.8	Positive
AyM_AR_MAG_1131	455293	5925793	7.5	49297.4	17.7	18	3.6	-20	Negative
AyM_AR_MAG_1132	455301	5927439	7.1	49305.1	20.5	44.6	3.9	-8.6	Cable
AyM_AR_MAG_1133	455341	5924311	2.7	49302.4	6.7	10.1	4.2	6.7	Positive
AyM_AR_MAG_1134	455351	5924063	3.4	49299.4	20.6	41	3.1	-1.7	Cable
AyM_AR_MAG_1135	455383.2	5926938.8	3	49318.4	9.4	15.9	3.5	-7.4	Negative
AyM_AR_MAG_1136	455389	5926305	2.7	49306.4	8.1	24.1	3.9	-6	Negative
AyM_AR_MAG_1137	455418	5926925.8	1.5	49329.6	5.3	30.7	3.9	4.3	Positive
AyM_AR_MAG_1138	455419	5926239	1.4	49335.8	5.8	30.7	4	3.2	Dipole
AyM_AR_MAG_1139	455430	5924984	2.3	49308.6	8.1	17	4.1	1.5	Dipole
AyM_AR_MAG_1140	455482	5924799	1.5	49311.7	5.4	18.3	4.3	-4.7	Negative
AyM_AR_MAG_1141	455485	5924963	55.9	49188.3	109.5	27.6	3.2	-112.1	Dipole
AyM_AR_MAG_1142	455492	5924957	3.9	49304.3	56	31.4	4.7	-2.4	Dipole
AyM_AR_MAG_1143	455600	5927266	5.5	49349.1	13.2	28.6	3.8	12	Dipole
AyM_AR_MAG_1144	455655	5926153.5	2.1	49331.2	8	34.2	4.6	-5.8	Dipole
AyM_AR_MAG_1145	455665.9	5927149.4	3.5	49305.2	10	19.6	4.4	-9.4	Negative
AyM_AR_MAG_1146	455825.2	5926325.9	2.4	49315.2	8.3	24	4	7.6	Positive
AyM_AR_MAG_1147	455853	5926381	2.2	49318.7	9.5	19.3	5	-6.3	Negative
AyM_AR_MAG_1148	455905	5924535	1.7	48548.1	5.3	5.9	4.4	0.8	Dipole
AyM_AR_MAG_1149	455956	5925953	5.7	49315.8	14.5	45.5	3.6	-12.6	Dipole
AyM_AR_MAG_1150	455969	5927277	0.9	49300	5.9	20	4.7	-0.5	Dipole
AyM_AR_MAG_1151	455983.1	5924502	1	49188.8	6.2	30.8	4.1	2.6	Dipole
AyM_AR_MAG_1152	455991	5926546	1.7	49319.4	6.9	33.5	5	3.1	Positive
AyM_AR_MAG_1153	456018.8	5925545.5	6.3	49324	23.5	25	3.9	0.1	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1154	456080.7	5925435.3	6.4	49294.4	16.6	16.6	4.2	-18	Negative
AyM_AR_MAG_1155	456082.8	5925755.5	1.3	49334.2	6.4	34.4	4.3	3.6	Dipole
AyM_AR_MAG_1156	456086	5927155	3.1	49319.3	10.9	26.4	3.9	6.1	Dipole
AyM_AR_MAG_1157	456230	5925464	2.7	49323.3	9	16.2	4.1	0.5	Dipole
AyM_AR_MAG_1158	456329	5926913	1.5	49318.2	5.6	33.8	3.8	3.3	Dipole
AyM_AR_MAG_1159	456384	5926114	4.4	49300.4	11	35	4.4	-12.3	Negative
AyM_AR_MAG_1160	456404	5924864.3	3.3	49330.1	9.3	23.2	4.2	9.9	Positive
AyM_AR_MAG_1161	456421	5925553	2.8	49322.6	8.1	21.7	3.4	5.4	Positive
AyM_AR_MAG_1162	456509.4	5924980.8	1.2	49324.2	5.8	22.7	4	-2.7	Dipole
AyM_AR_MAG_1163	456620	5924871	3.4	49329.9	7.6	14.6	4	8	Positive
AyM_AR_MAG_1164	456644.9	5927503.4	2	49308.5	9.6	32.9	4.3	-1.1	Dipole
AyM_AR_MAG_1165	456699	5927133	2	49311.5	6.5	49.5	4.3	-4.1	Dipole
AyM_AR_MAG_1166	456702	5925689	5.9	49309.7	17.4	46.5	4.9	-16.2	Dipole
AyM_AR_MAG_1167	456776	5927375	2.5	49321.5	18.8	44.5	4.1	5.4	Positive
AyM_AR_MAG_1168	456839.1	5925727.3	1.4	49336.6	6.1	26.1	5.9	3.9	Dipole
AyM_AR_MAG_1169	456845	5926024	8.3	49349.3	25	35.8	3.9	25.2	Dipole
AyM_AR_MAG_1170	456847.8	5926876.4	4.4	49300.5	14.2	28.7	4	-11.9	Negative
AyM_AR_MAG_1171	456883.1	5926864.3	3.6	49318.2	14.5	16	3.7	4.4	Complex
AyM_AR_MAG_1172	456889.9	5926860.4	3.7	49310.3	16.3	17.8	3.5	-4.7	Complex
AyM_AR_MAG_1173	457054	5925567	7.5	49337.6	30.4	28.2	4.2	6	Dipole
AyM_AR_MAG_1174	457090	5925554	2.9	49331.5	11.2	32.5	3.8	1.2	Dipole
AyM_AR_MAG_1175	457114	5926481	4	49346.4	16.7	40.1	4.2	5.5	Dipole
AyM_AR_MAG_1176	457213	5925264	53.9	49226.5	135.7	28.7	3	-86.5	Dipole
AyM_AR_MAG_1177	457217	5927446	2.5	49319.4	7	24.8	4	6.4	Positive
AyM_AR_MAG_1178	457244	5926971	4.6	49351	13.4	30.4	3.2	9.3	Dipole
AyM_AR_MAG_1179	457264.6	5927123.8	4.4	49326.6	13.3	42	3.9	-9	Dipole
AyM_AR_MAG_1180	457264.6	5927427.9	45.3	49213.4	192.2	56.2	3.5	-91.6	Dipole
AyM_AR_MAG_1181	457332	5927102	2.6	49338.2	8.9	17.8	3.6	2.4	Dipole
AyM_AR_MAG_1182	457335.8	5926084.3	3.3	49342.5	19.5	46.6	5.8	6.8	Dipole
AyM_AR_MAG_1183	457377	5927171	1.6	49324.4	5.9	20.7	3.9	2.3	Dipole
AyM_AR_MAG_1184	457547.4	5925847	2.6	49334.8	9.9	24.7	3.7	-0.6	Dipole
AyM_AR_MAG_1185	457558.1	5926471.1	0.9	49318.3	7.4	28.9	4.6	2.3	Dipole

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1186	457607	5927299	9	49280.4	25.1	38.6	4	-28.1	Negative
AyM_AR_MAG_1187	457706	5926267.2	2.7	49343.2	8.7	27.8	4.8	3.6	Dipole
AyM_AR_MAG_1188	457732.5	5926013.9	4.1	49329.7	9.5	22.4	4.2	-10.6	Negative
AyM_AR_MAG_1189	457754.6	5925625.8	2.7	49305.6	5.8	27.5	3.6	5.5	Dipole
AyM_AR_MAG_1190	457782	5927243	3.6	49318.7	11.5	25	3.9	4.3	Dipole
AyM_AR_MAG_1191	457804	5927234	1.4	49314.6	5.2	19.5	4.3	1.6	Dipole
AyM_AR_MAG_1192	457811	5927331	1.4	49305.9	5.4	19.2	3.8	-2.2	Dipole
AyM_AR_MAG_1193	457839	5927044	4.3	49330.9	13.2	22.1	4.5	13.7	Positive
AyM_AR_MAG_1194	457875	5927383	45.6	48641.2	175.8	34	4.4	127.5	Complex
AyM_AR_MAG_1195	457909	5926662	5.3	49355.5	15.9	25.9	4.2	11.8	Dipole
AyM_AR_MAG_1196	457913.5	5926493.4	8.4	49291.8	39.3	40.1	4.3	-26	Dipole
AyM_AR_MAG_1197	457916	5927368	13.9	47834.8	36.6	27.2	8.7	-29.1	Dipole
AyM_AR_MAG_1198	457918.1	5925633.2	1.3	49257.3	7.7	24.4	5.1	0.4	Dipole
AyM_AR_MAG_1199	457927.4	5927115.2	2.5	49336.9	6.6	21	3	-7.6	Negative
AyM_AR_MAG_1200	457935	5926720	2.6	49351.3	10.6	22	4.4	7.4	Positive
AyM_AR_MAG_1201	457943.5	5926330.2	2.1	49321.8	10.8	23.9	5	5	Complex
AyM_AR_MAG_1202	457956	5926325	10.6	49337.2	38.4	45.2	4.2	20.7	Dipole
AyM_AR_MAG_1203	457976	5927262	1.3	49311.3	5.4	29.9	4.3	-2.1	Dipole
AyM_AR_MAG_1204	458004	5925682	9	48960.2	27.9	43.7	3.5	13.9	Dipole
AyM_AR_MAG_1205	458044	5927075	2	49344.9	8.7	39.2	4.9	-0.5	Dipole
AyM_AR_MAG_1206	458056	5927471	1.2	49337	5.3	19.8	3.9	-2.7	Dipole
AyM_AR_MAG_1207	458097	5927456	7.9	49348.8	27.1	36.8	3.6	8.3	Dipole
AyM_AR_MAG_1208	458101.8	5926907.8	2	49311.5	10.3	44.6	5.8	-7.4	Dipole
AyM_AR_MAG_1209	458149	5926728	8.8	49364.5	22.6	21.5	3.4	23.6	Dipole
AyM_AR_MAG_1210	458157.7	5926720.6	6.2	49317.1	26.4	43.6	4.5	-11.8	Complex
AyM_AR_MAG_1211	458218	5926465	1.2	49307.7	5.2	41.1	5.4	0.4	Dipole
AyM_AR_MAG_1212	458367	5927120	6.5	49295.9	16.3	39.7	3.6	-16.5	Dipole
AyM_AR_MAG_1213	458376	5926496	2.3	49347.3	7.8	24.8	4.4	6.8	Positive
AyM_AR_MAG_1214	458385	5926953	4	49330.1	10.6	45.5	4.1	-11.8	Negative
AyM_AR_MAG_1215	458443	5927176	2.4	49315.6	6.9	25.5	3.1	3.9	Dipole
AyM_AR_MAG_1216	458468	5926844	2.7	49310	11	28.6	4.3	-5.2	Dipole
AyM_AR_MAG_1217	458477	5927049	1.9	49314.2	7.3	34.2	4.2	-3.7	Negative

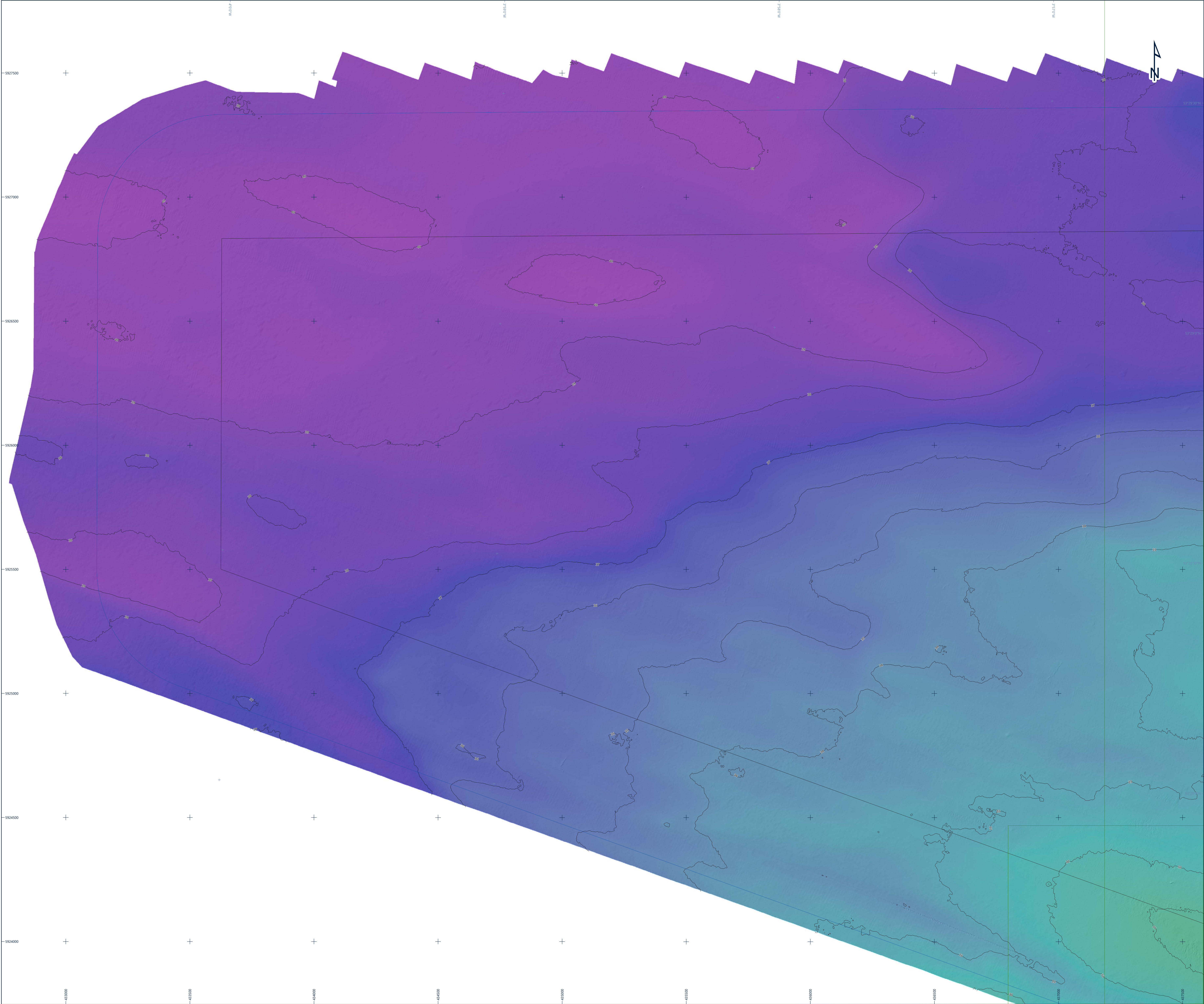
MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
AyM_AR_MAG_1218	458495	5926281	20.8	49421.1	70.9	72.5	4.6	74.1	Dipole
AyM_AR_MAG_1219	458543	5926034	1.8	49298.4	5	28.2	4.7	-6.5	Negative
AyM_AR_MAG_1220	458911	5927164	6.7	49322.7	26.2	31.4	4.2	-18.6	Dipole
AyM_AR_MAG_1221	458988	5926892.1	2.3	49316.2	5.3	14.3	4	5.2	Positive
AyM_AR_MAG_1222	459069	5926247	13.6	49286.5	29.6	24.3	2.8	31.1	Positive
AyM_AR_MAG_1223	459085	5926305	1.9	48964	20.8	25.3	3.7	3	Dipole
AyM_AR_MAG_1224	459136	5927164	3.1	49340.4	10.3	32.6	4.2	9	Positive
AyM_AR_MAG_1225	459143	5926835	8.3	49316	28	32.5	3.9	12.2	Dipole
AyM_AR_MAG_1226	459144	5926529	3.6	49277.6	16.6	33.5	4	0.5	Dipole
AyM_AR_MAG_1227	459188	5926469	1.3	49267.6	5.5	23.3	4.1	-0.3	Dipole
AyM_AR_MAG_1228	459223	5926568	1.7	49296.6	6.6	27.4	4	0.6	Cable
AyM_AR_MAG_1229	459261	5926487	5.7	49304.9	12.4	22.9	3.3	12.4	Positive
AyM_AR_MAG_1230	459308	5926703	4.2	49305.5	12.7	31.1	3.6	6.7	Dipole
AyM_AR_MAG_1231	459368.2	5927318.4	0.7	49339.3	5.6	43.4	3.3	1.4	Dipole
AyM_AR_MAG_1232	459375	5927371	5.3	49327.6	17	27.4	3.6	-7.9	Dipole
AyM_AR_MAG_1233	459409.5	5926433.4	3.4	49297.6	8.8	19.3	3.4	-7.8	Negative
AyM_AR_MAG_1234	459447	5927357	7.2	49294	22.4	29.1	5.3	-19.5	Negative
AyM_AR_MAG_1235	459449.3	5926893.9	8.9	48931.4	39.4	62.9	3.6	31.4	Dipole
AyM_AR_MAG_1236	459497.2	5926795.5	2.9	49288.2	13.2	54.2	4	8.7	Dipole
AyM_AR_MAG_1237	459517	5927029	2.5	49185.3	9.2	47	4.1	-4.2	Negative
AyM_AR_MAG_1238	459580.1	5927308.7	4.6	49303.9	13	25.1	4.2	-7.5	Dipole
AyM_AR_MAG_1239	459591	5926680.3	7.7	49316.1	40.5	41.1	4	20.8	Positive
AyM_AR_MAG_1240	459645.9	5926578.9	5.7	49277.7	26.6	30.5	4.3	-14	Dipole
AyM_AR_MAG_1241	459740	5927175	3.7	49293.7	9.7	43.1	3.9	-7.6	Dipole
AyM_AR_MAG_1242	459780	5926999	5	49328.7	12.4	27.8	3.6	11.2	Positive
AyM_AR_MAG_1243	459859	5927288	5.1	49315.8	17.4	24.3	3.9	5	Complex
AyM_AR_MAG_1244	459867	5926902	2.2	49311.1	5.8	26.2	3.8	-6.7	Negative
AyM_AR_MAG_1245	459952.4	5927254.5	4.5	49320.6	13	21.1	3.6	11.6	Positive
ECRAB_MAG_0001	450870.7	5919391	0.73	49280.2	11	25.8	2.6	0	Dipole
ECRAB_MAG_0002	451439.5	5919766.2	4.79	49297.57	15.1	20.4	4.6	2.5	Dipole
ECRC_MAG_0018	441179.5	5922280	152.9	49486.7	445.9	46.1	3	234.7	Dipole CABLE
ECRC_MAG_0032	442334.5	5921941	170.1	49734.1	549.3	30.3	3.8	474	Dipole CABLE

MAG_ID	EASTING_m	NORTHING_m	AS_nT_m	TF_nT	Amplitude	Width_m	Altitude_m	Residual_n	Shape
ECRC_MAG_0045	443459	5921610.5	262.8	49913.9	711.5	41.8	3.1	643.9	Dipole CABLE
ECRC_MAG_0047	444033.5	5921419.5	214.7	49822.7	671.1	33.1	2.5	568	Dipole CABLE
ECRC_MAG_0084	447179	5920178.5	2.5	49301.6	7.2	21.8	3.2	4	Dipole
ECRC_MAG_0085	447295.5	5920275.5	75.6	49117.4	303	62	3.9	-168.2	Dipole CABLE
ECRC_MAG_0117	449461	5919499.5	92.5	49207.4	79.2	52.3	3.6	-73.1	Dipole CABLE
ECRC_MAG_0127	450459.3	5919119.1	1.1	49377.9	5.9	37	3	0.8	Dipole
ECRC_MAG_0129	450550.9	5919109.8	296.3	48949.4	1102.9	39.5	1.9	-422	Dipole CABLE

Appendix D

Charts – Colour Shaded

Bathymetry North Ups



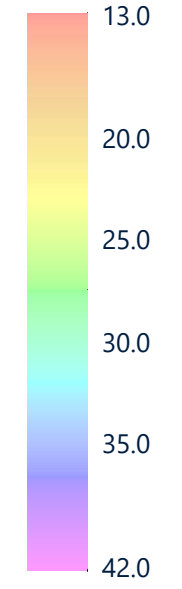
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
(m below LAT)



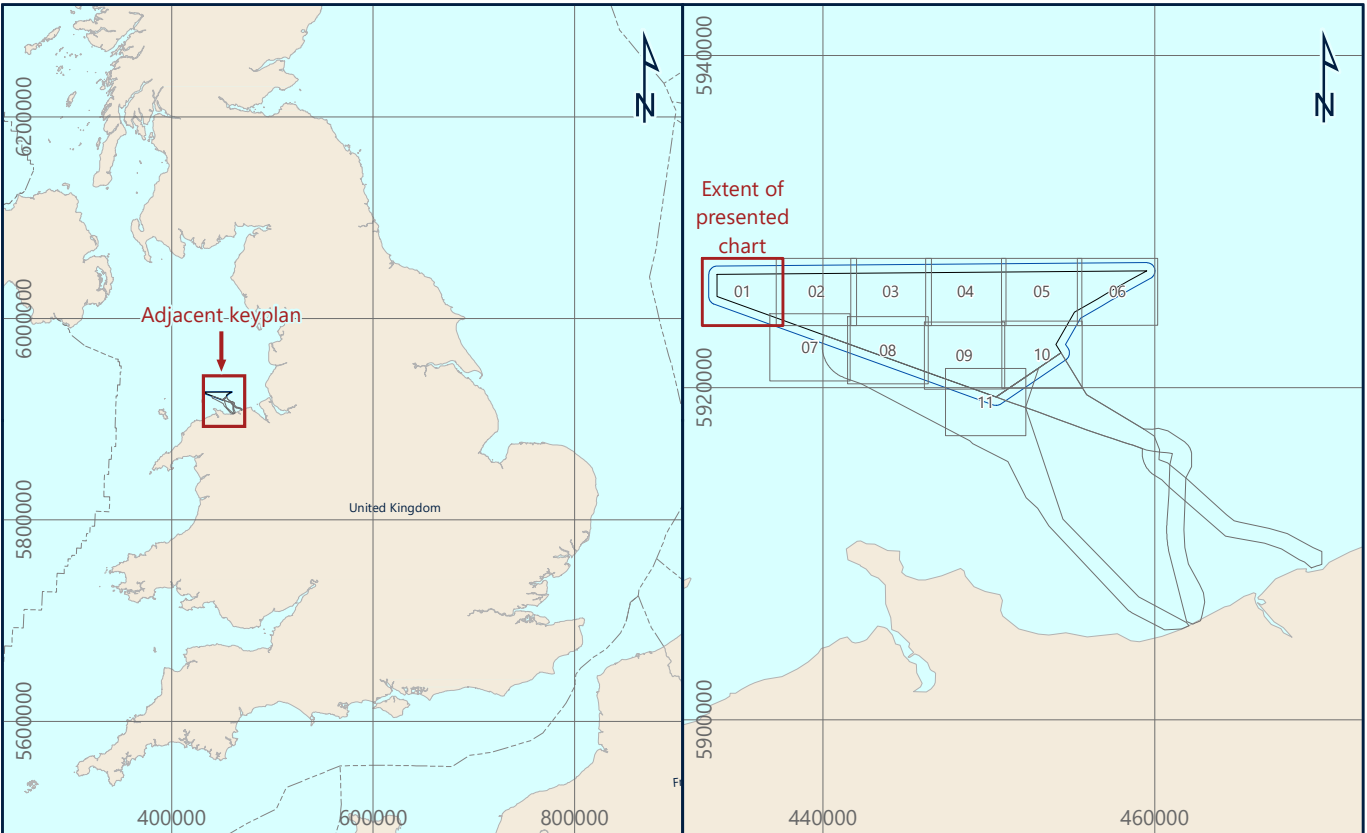
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50 400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)	07°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)



Awel Y Môr Offshore Wind Farm Ltd
Trigona Bât, Windmill Hill Business Park, Whitland Way, Swindon, SN1 6PE, United Kingdom

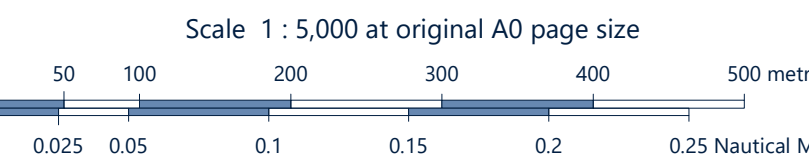
AWEL Y MÔR

Fugro

Victory House, Trelgar Wharf Unit 161, Hamilton Road, Porchester PO6 4PX
Tel: +44 23 9220 3500

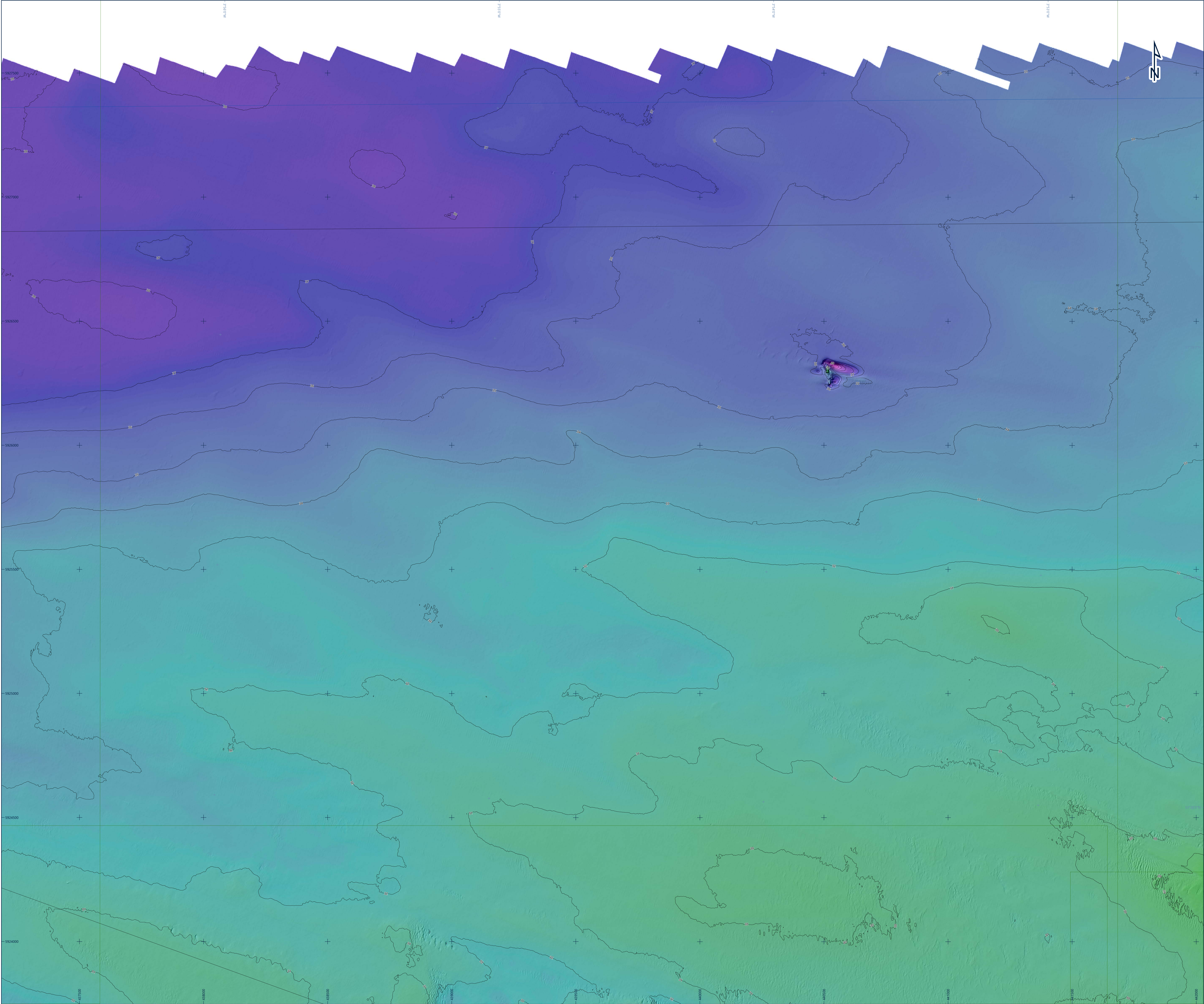


COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name		Chart No.
200655_Array_ColourShadedBathymetry.01		01 of 11



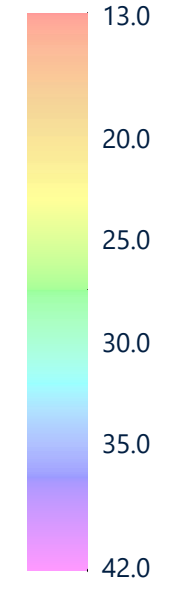
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
[m below LAT]



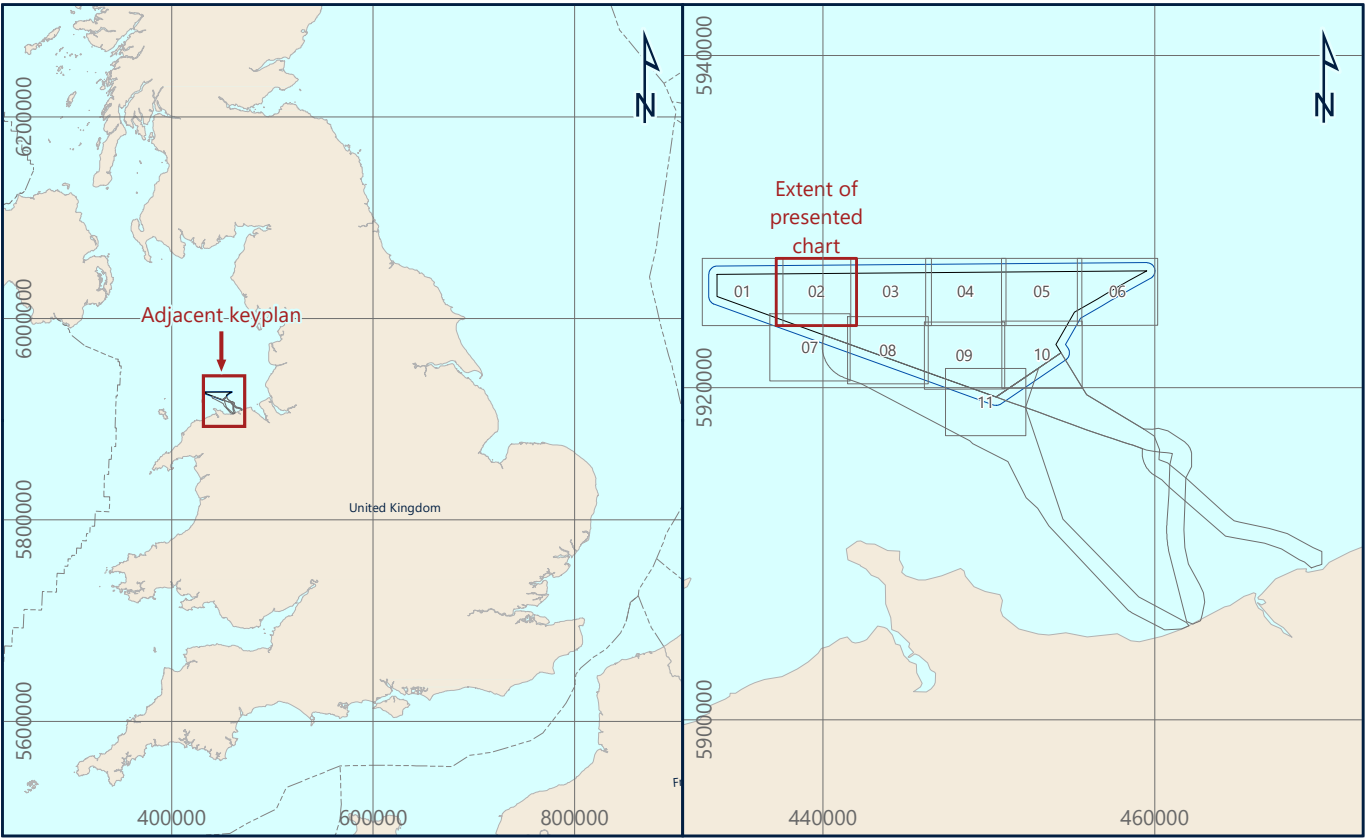
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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): 07°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)



Awel Y Môr Offshore Wind Farm Ltd
Trigona Bât, Windmill Hill Business Park, Whitland Way, Swinton, S15 6PE, United Kingdom

AWEL Y MÔR

Fugro

Victory House, Trellicker Wharf Unit 161, Hamilton Road, Porchester PO6 4PX
Tel: +44 23 8220 3500

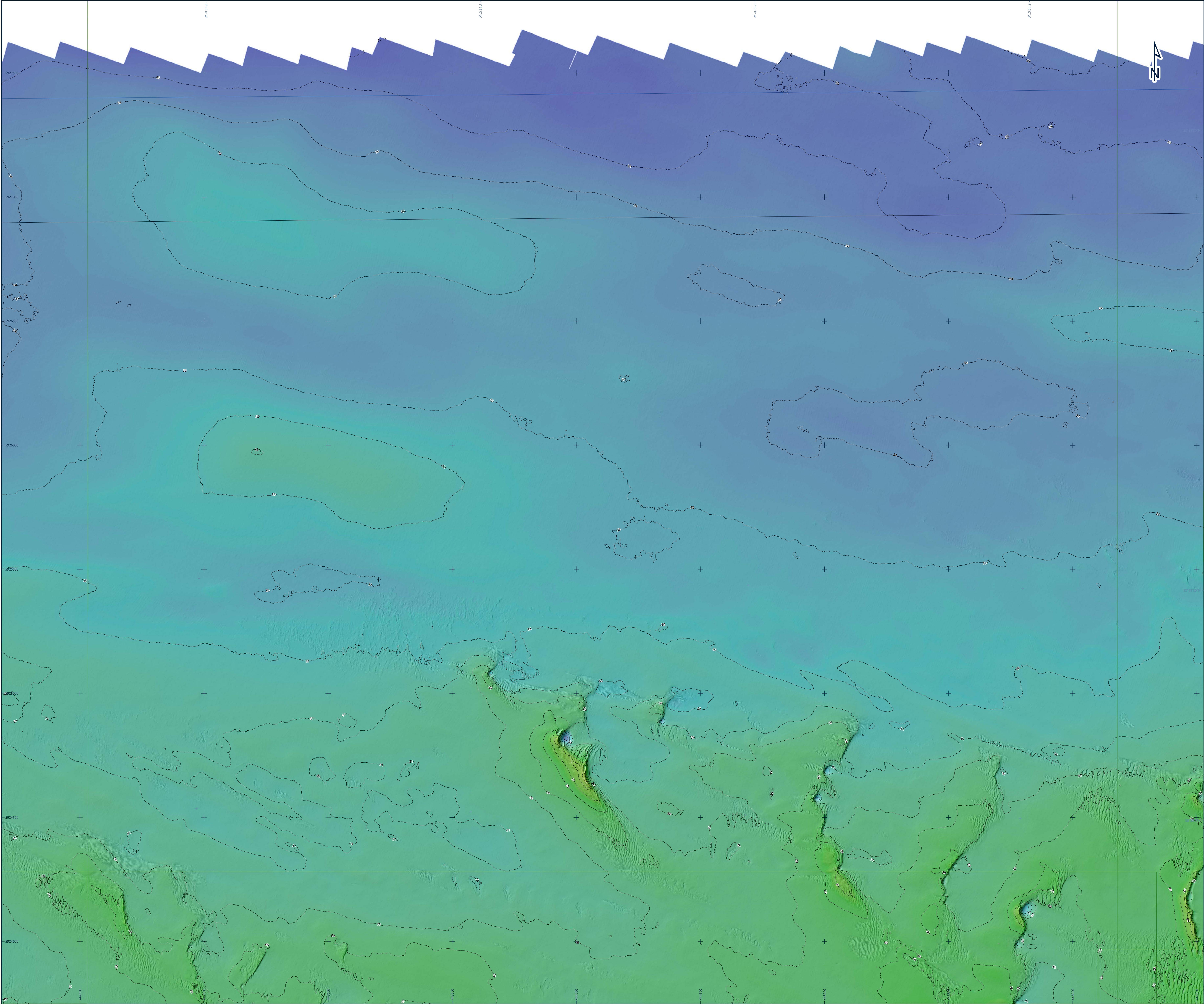


COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA

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

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No. 200655	Vessel(s) Fugro Mercator	Survey Date 10 June to 11 August 2020
File Name 200655_Array_ColourShadedBathymetry.02		Chart No. 02 of 11



Legend

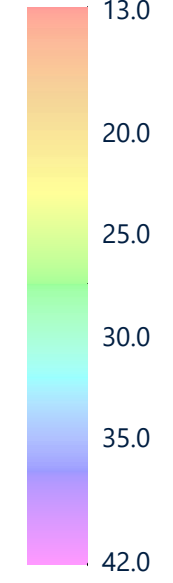
- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth

(m below LAT)



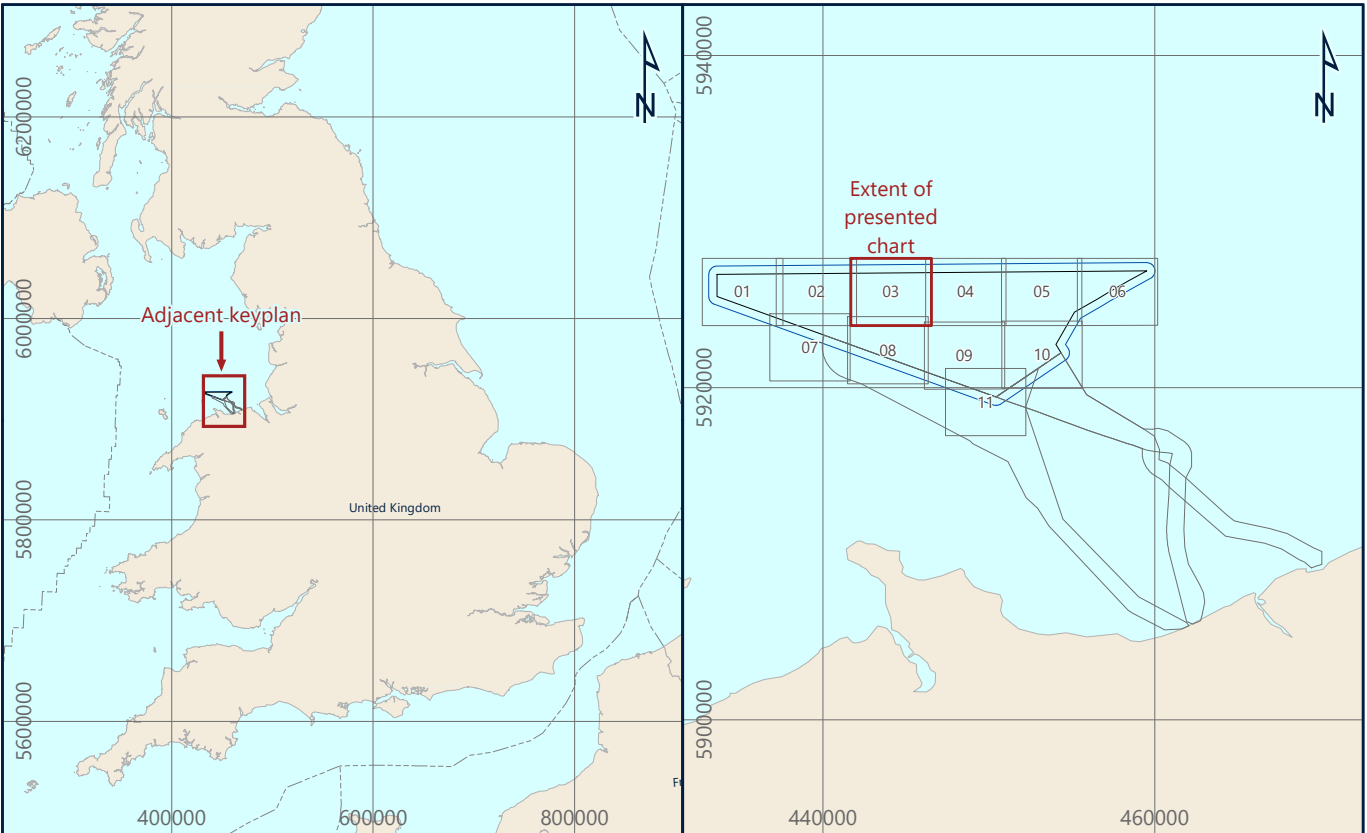
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)	07°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)



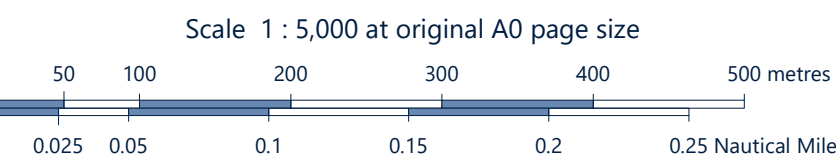
Awel Y Môr Offshore Wind Farm Ltd
Trigona Bât, Mermaid Hill Business Park, Whitwell Way, Swinton, S15 4PS, United Kingdom

AWEL Y MŌR

Fugro
Victory House, Trellicker Wharf Unit 161, Hamilton Road, Portsmouth PO6 4PX
Tel: +44 23 9220 3500

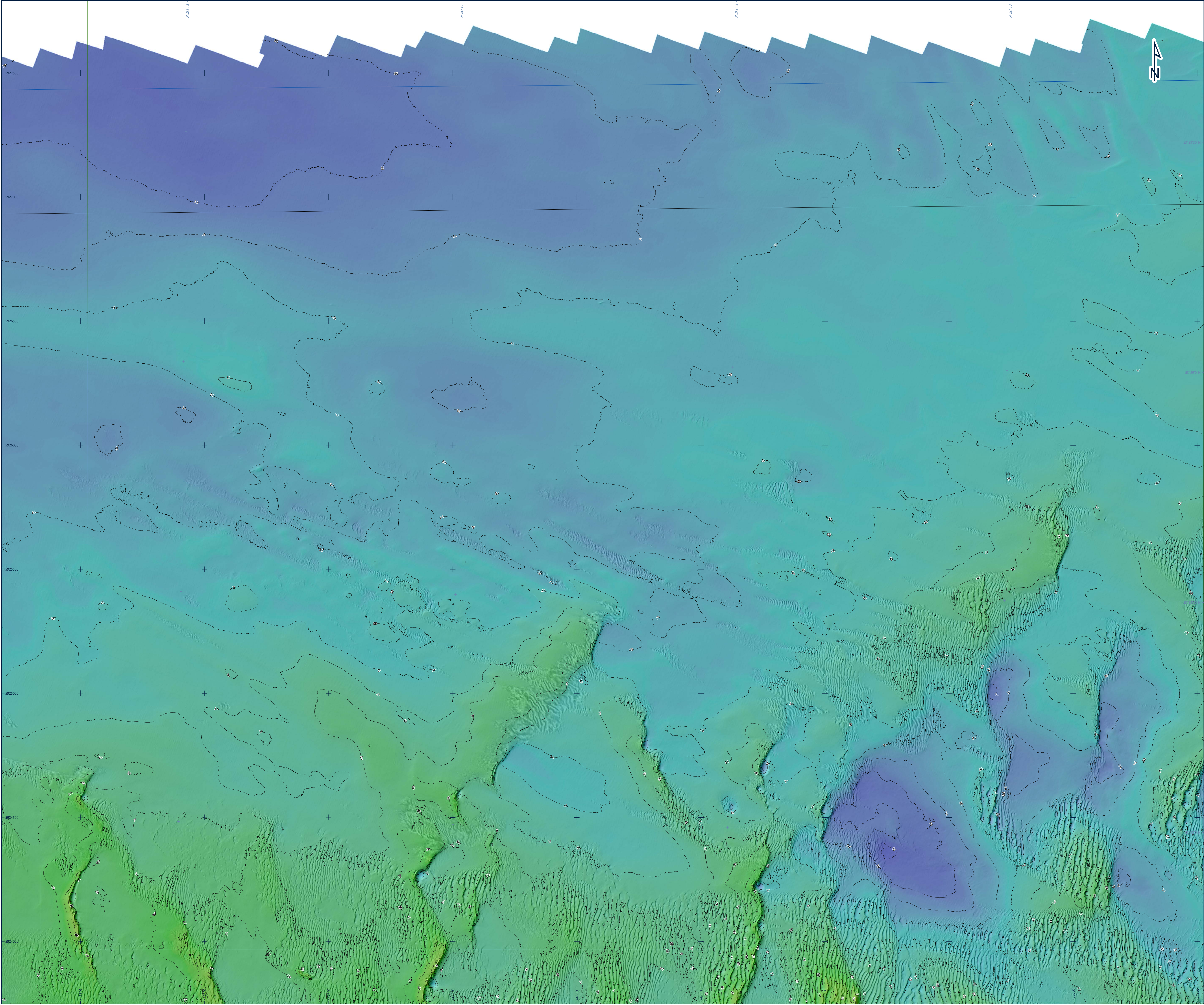


COLOUR SHADED BATHYMETRY
AWEL Y MŌR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name		Chart No.
200655_Array_ColourShadedBathymetry.03		03 of 11



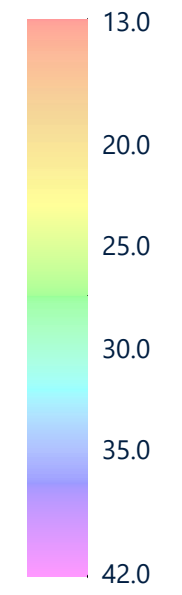
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
(m below LAT)



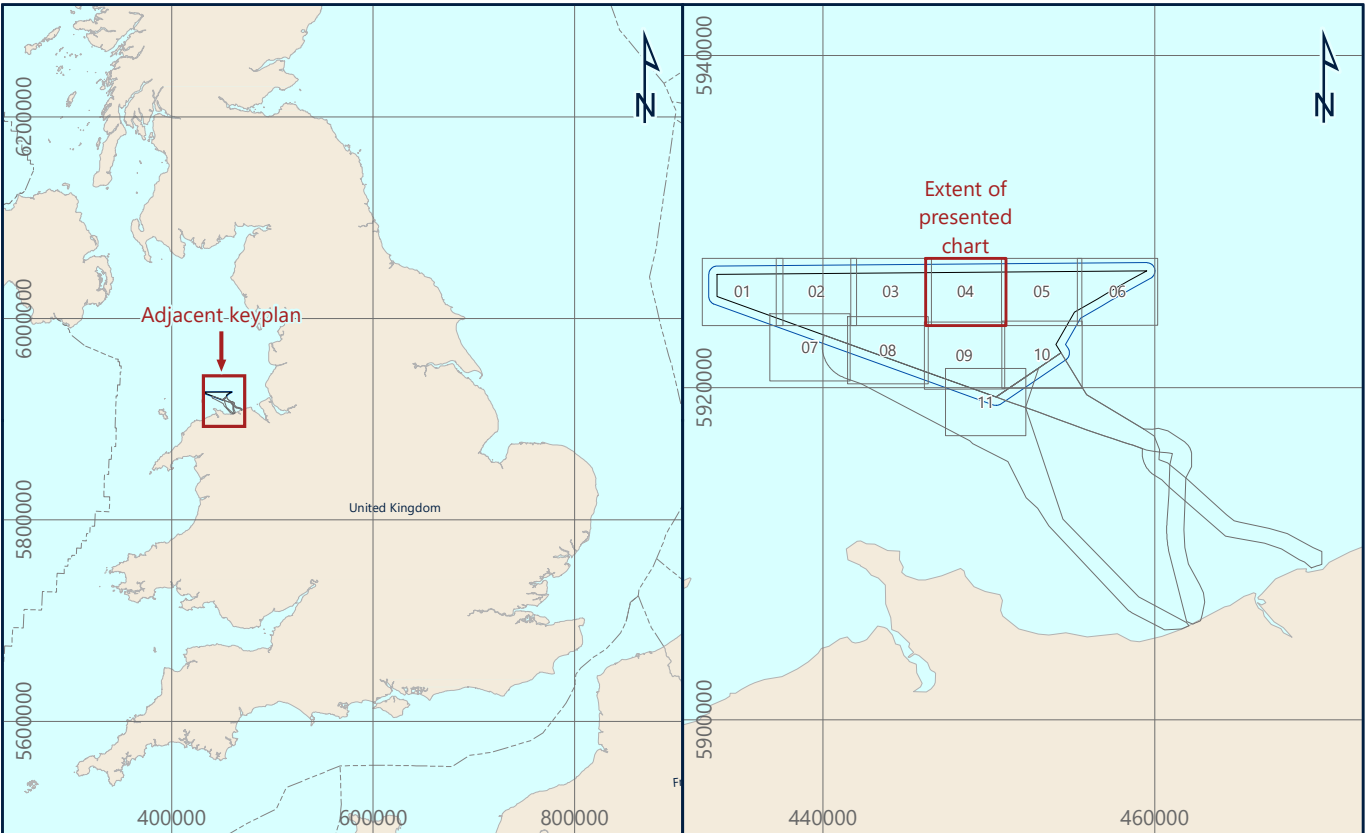
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual-head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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): 07°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)



Awel Y Môr Offshore Wind Farm Ltd
Trigwyn Bdy, Wernant Hill Business Park, Whitland Way, Swinton, S15 6PE, United Kingdom

AWEL Y MÔR

Fugro

Victory House, Trelgar Wharf Unit 161, Hamilton Road, Porchester PO6 4PX
Tel: +44 23 9220 3500

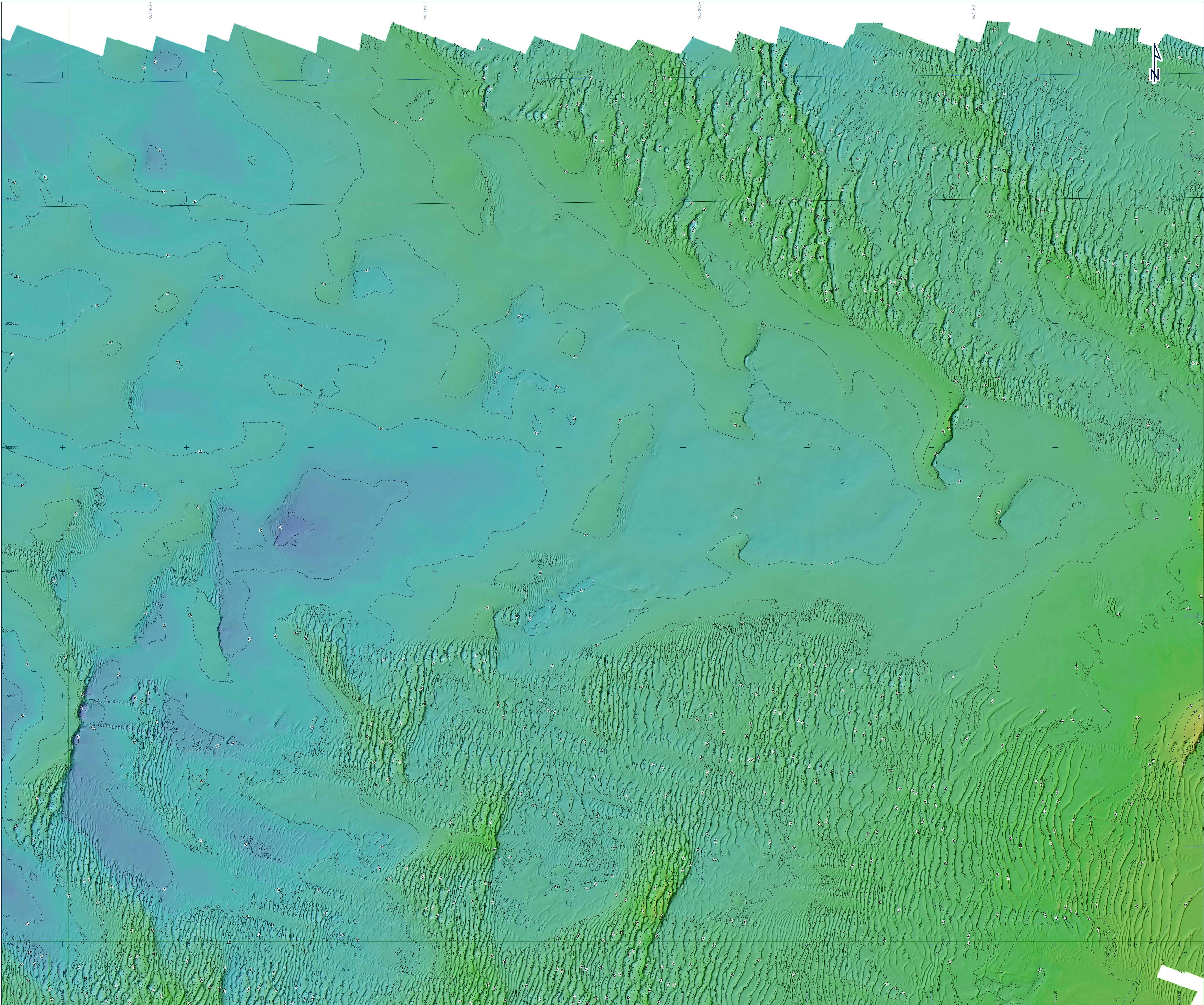


COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA

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

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No. 200655	Vessel(s) Fugro Mercator	Survey Date 10 June to 11 August 2020
File Name 200655_Array_ColourShadedBathymetry_04		Chart No. 04 of 11



Legend

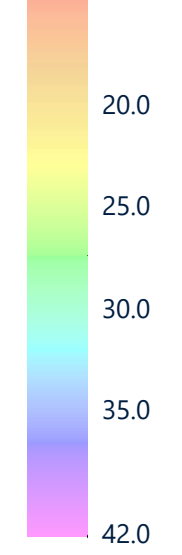
- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth

(m below LAT)



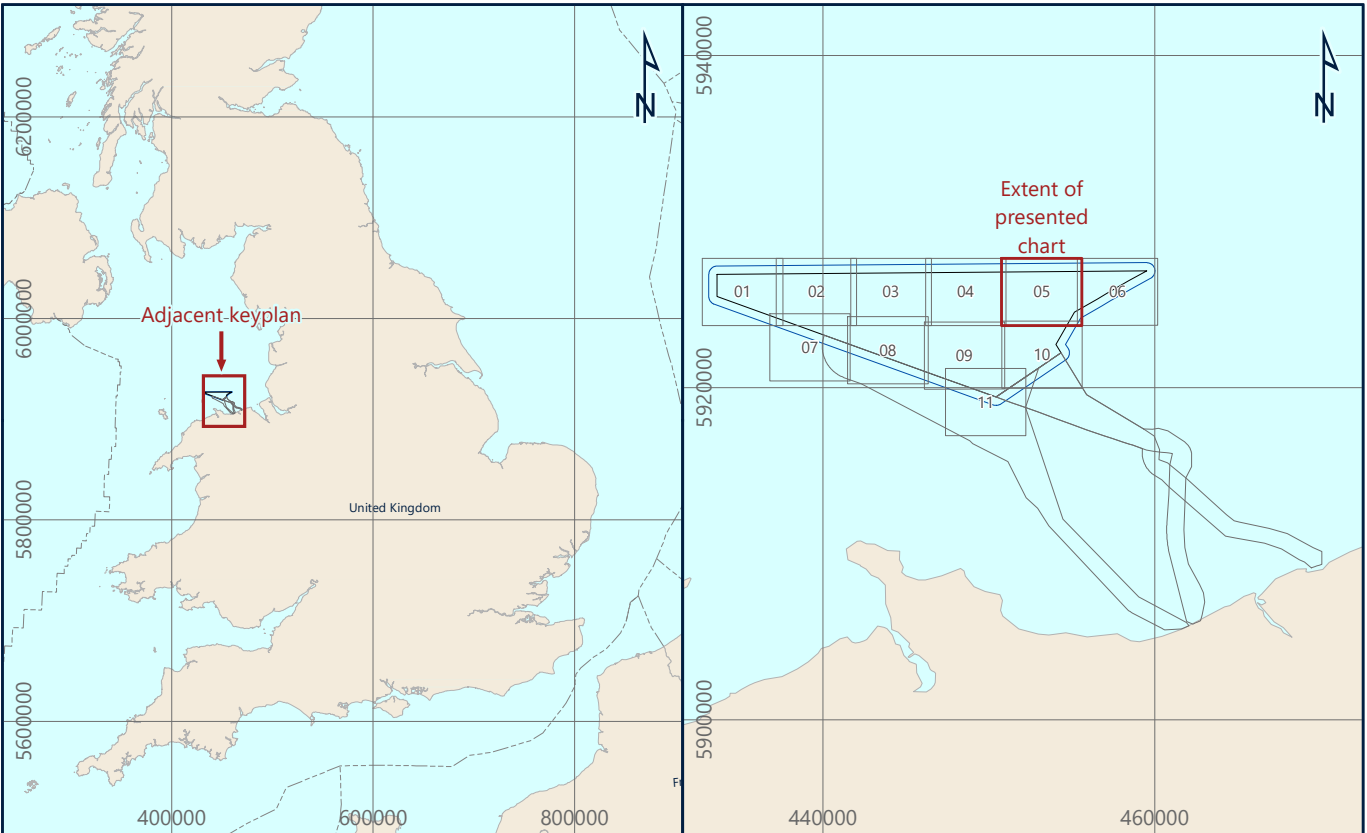
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50 400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 31° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)	07°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)



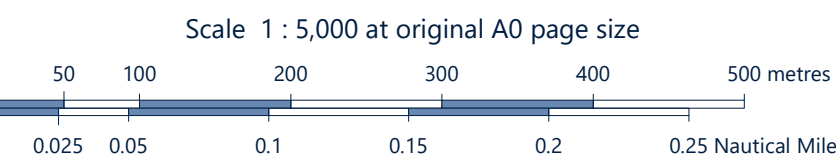
Awel Y Môr Offshore Wind Farm Ltd
Trigona Bât, Windmill Hill Business Park, Whitwell Way, Swinton, S15 6PE, United Kingdom

AWEL Y MÔR

Fugro
Victory House, Trellicker Wharf Unit 161, Hamilton Road, Portsmouth PO6 4PX
Tel: +44 23 9220 3500

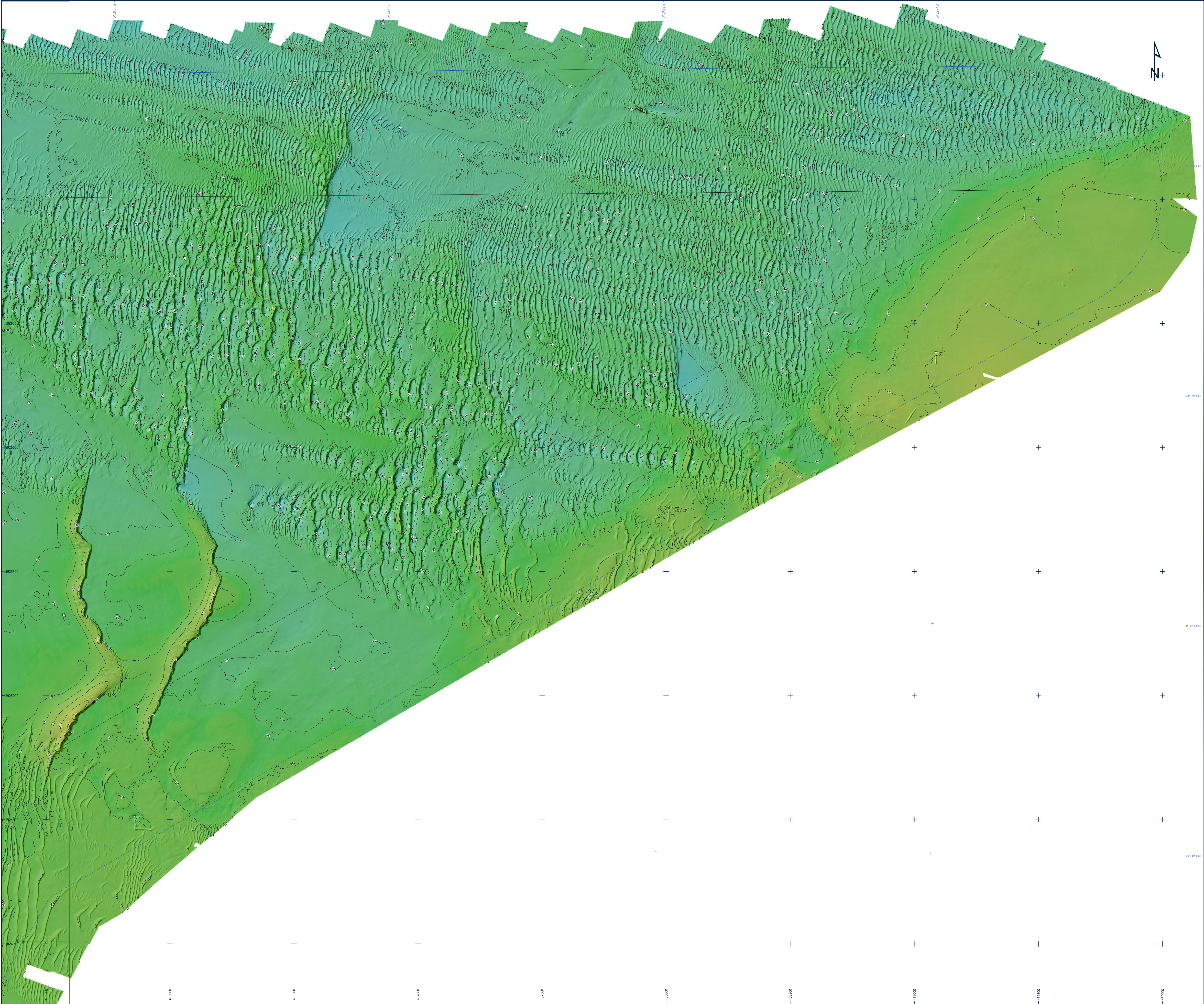


COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name		Chart No.
200655_Array_ColourShadedBathymetry_05		05 of 11



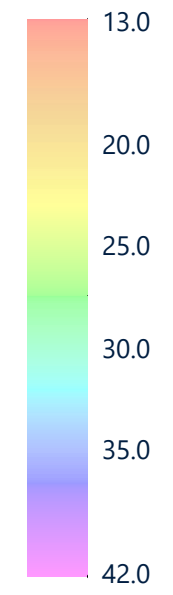
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
(m below LAT)



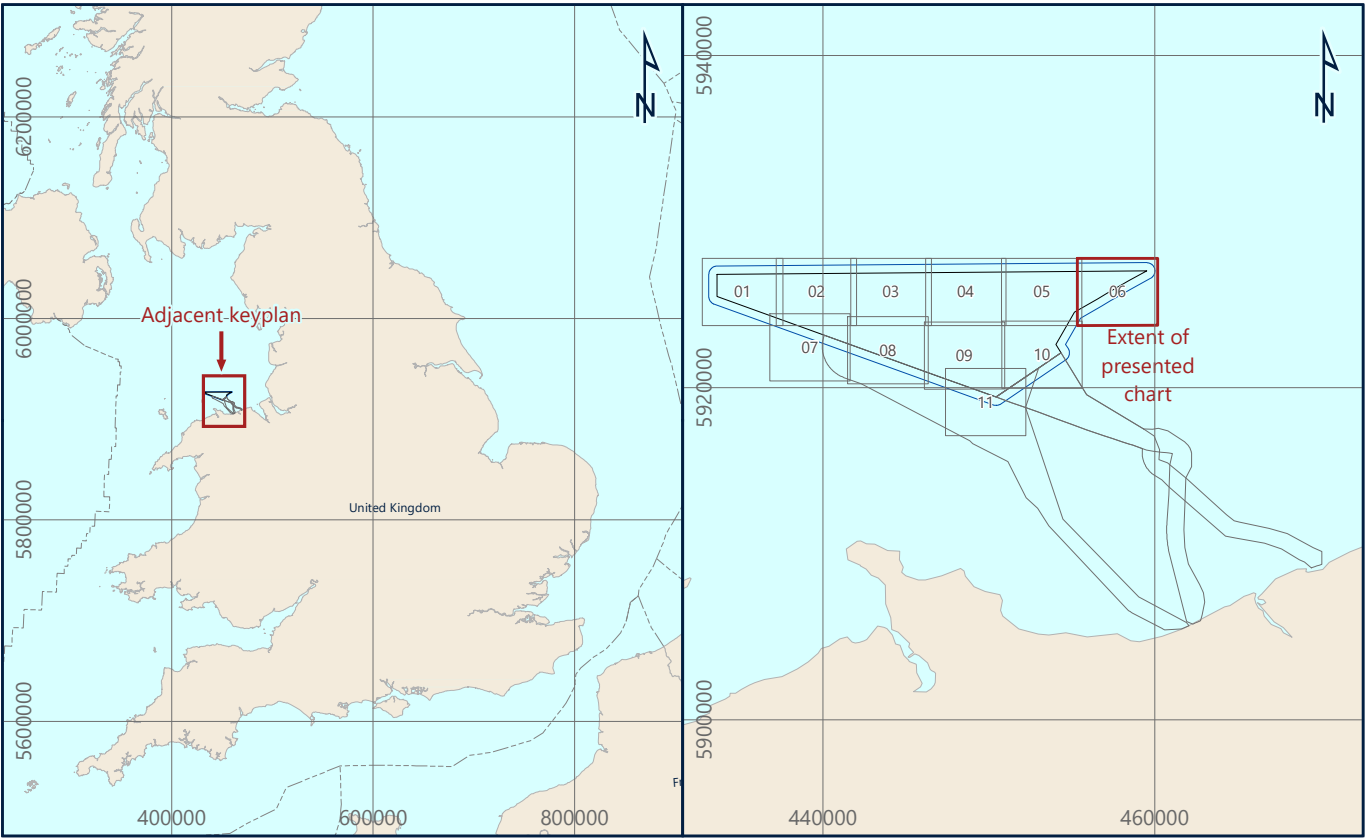
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)



Awel Y Môr Offshore Wind Farm Ltd
Trigona Bât, Windmill Hill Business Park, Whitwell Way, Swinton, S15 4PS, United Kingdom

AWEL Y MÔR

Fugro
Victory House, Trellicker Wharf Unit 161, Hamilton Road, Portchester PO16 4PX
Tel: +44 23 9220 3500

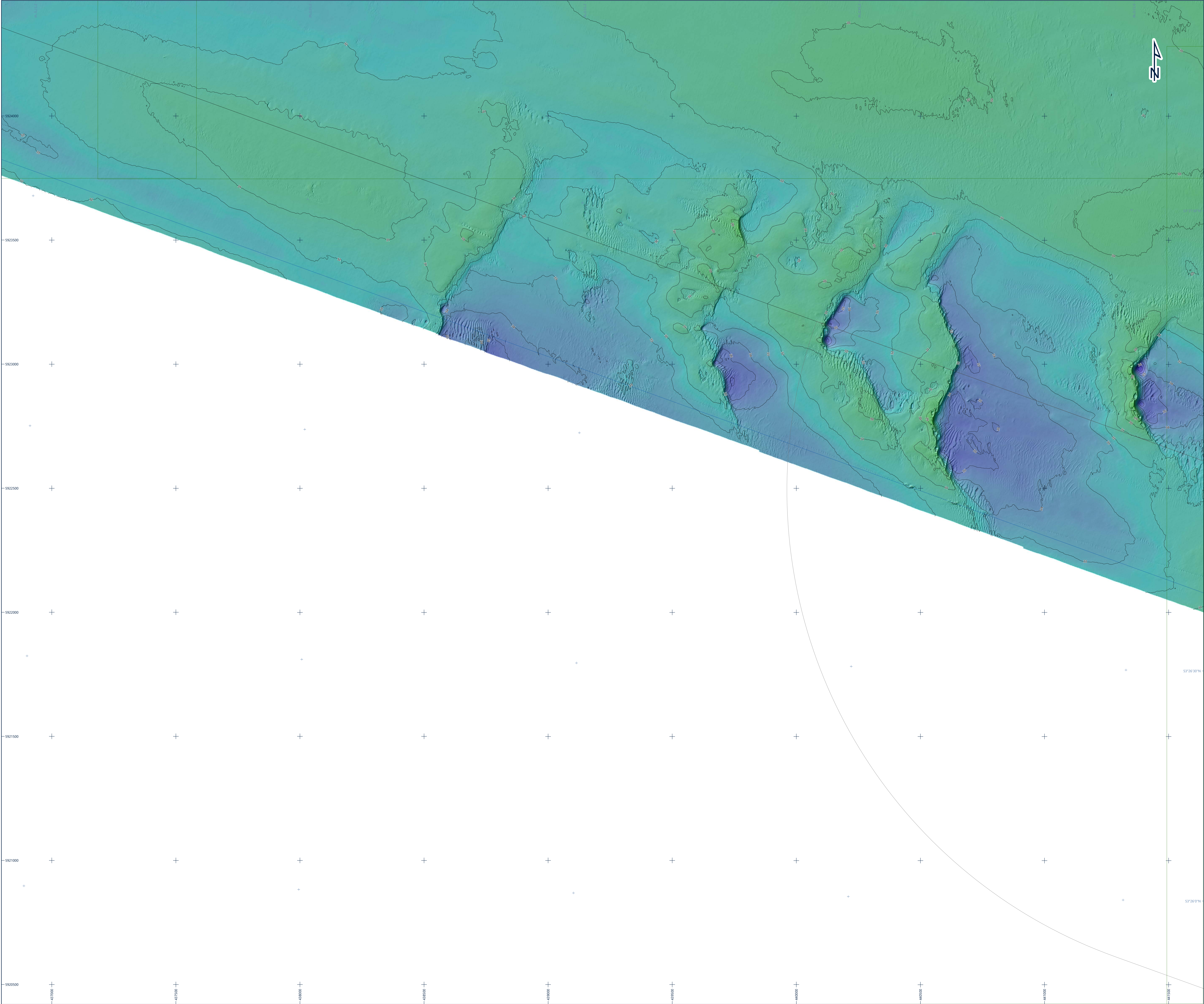
FUGRO

COLOUR SHADED BATHYMETRY
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	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name		Chart No.
200655_Array_ColourShadedBathymetry.06		06 of 11



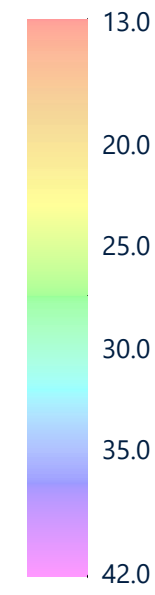
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
(m below LAT)



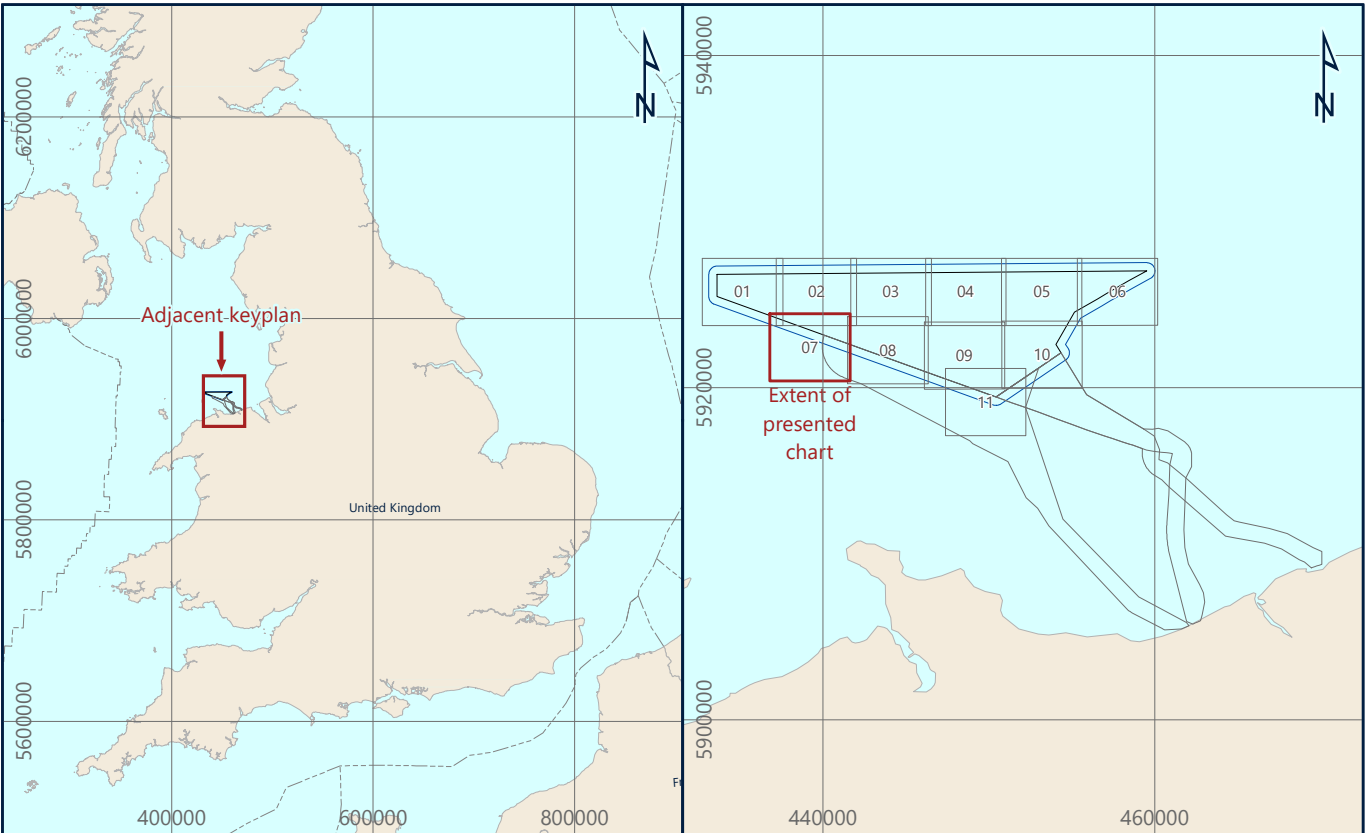
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual head multibeam echosounder processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 315° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)



Awel Y Môr Offshore Wind Farm Ltd
Trigona Bldg, Windmill Hill Business Park, Whitland Way, Swinton, S15 6PS, United Kingdom

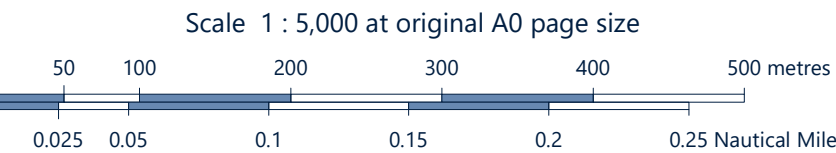
AWEL Y MÔR

Fugro

Victory House, Troliggar Wharf Unit 161, Hamilton Road, Porchester PO6 4PX
Tel: +44 23 9220 5500

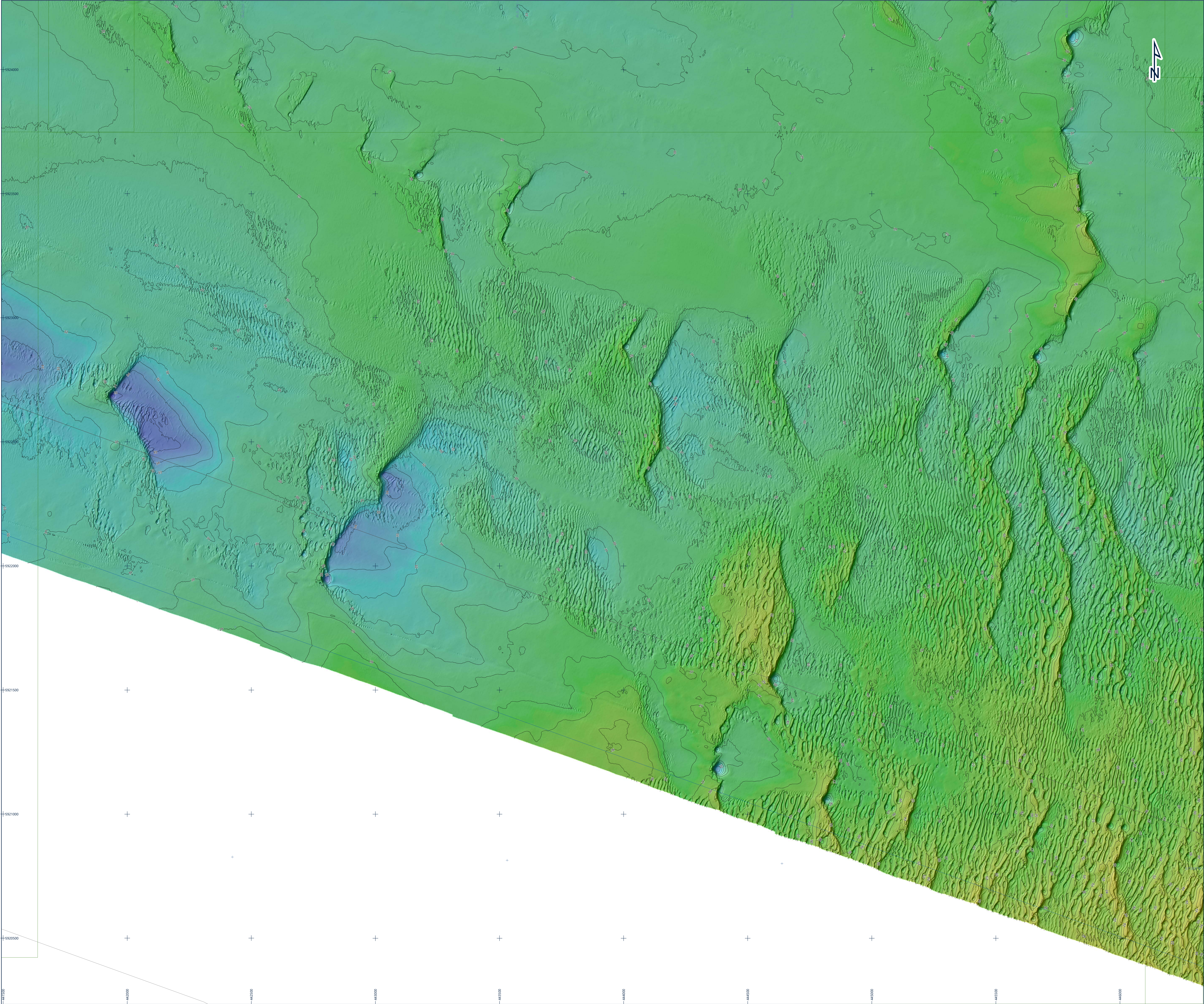
FUGRO

COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name	Chart No.	
200655_Array_ColourShadedBathymetry.07	07 of 11	



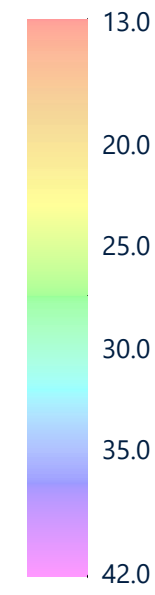
Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Wind Farm Extent
- Array Survey Extent
- Export Cable Route Survey Extent

Bathymetry

1 m Contour

Water Depth
(m below LAT)



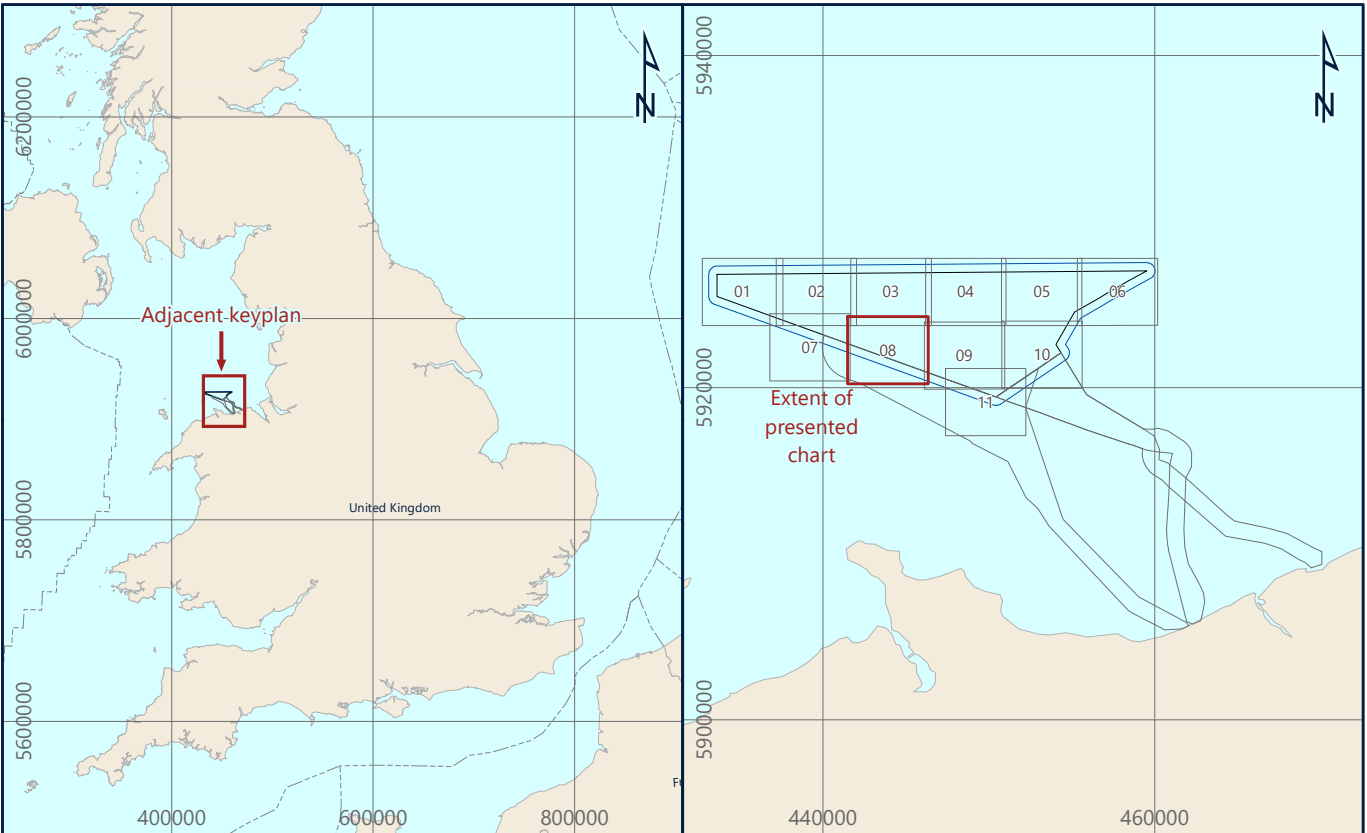
Notes

- 1) Bathymetry from Teledyne RESON SeaBat T50-400 kHz dual head multibeam echosounder, processed with 0.25 m bin size (charted at 1 m bin size).
- 2) Hillshade is illuminated at sun angle 31° and azimuth 45°.
- 3) Bathymetry contours are created using a smoothed raster surface.

This document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for that commission. Unauthorised use of this document in any form whatsoever is prohibited.

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)	07°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)



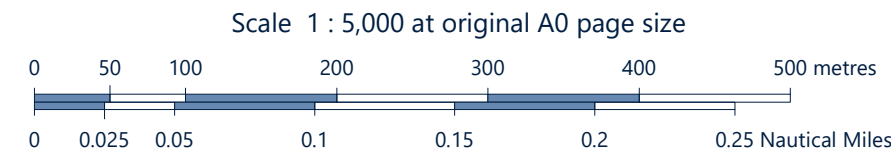
Awel Y Môr Offshore Wind Farm Ltd
Trigwedd Bât, Werned Hîl Business Park, Whitelaw Way, Swindon, SN1 6PL, United Kingdom

AWEL Y MÔR

Fugro
Victory House, Trelgar Wharf Unit 161, Hamilton Road, Portchester PO16 4PX
Tel: +44 23 9220 3500

FUGRO

COLOUR SHADED BATHYMETRY
AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA



Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	07 October 2020	Draft Issue - Revision 1	N/A	DS	SB	JS
02	01 December 2020	Final Issue - Revision 2	N/A	DS	SB	JS
03	04 February 2021	Final Release - Revision 3	N/A	DS	SB	JS
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020
File Name		Chart No.
200655_Array_ColourShadedBathymetry.08		08 of 11



RWE Renewables UK
Swindon Limited

Windmill Hill Business Park
Whitehill Way
Swindon
Wiltshire SN5 6PB
T +44 (0)8456 720 090
www.rwe.com

Registered office:
RWE Renewables UK
Swindon Limited Windmill
Hill Business Park Whitehill
Way
Swindon