RWE

Awel y Môr Offshore Wind Farm

Category 6: Environmental Statement

Volume 4, Annex 2.4: Seafloor and Shallow Geological Results (Array) (Part 12)

Date: April 2022

Revision: A

Application Reference: 6.4.2.4.12

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

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

www.awelymor.cymru

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T +44 (0)8456 720 090
www.rwe.com

Registered office:
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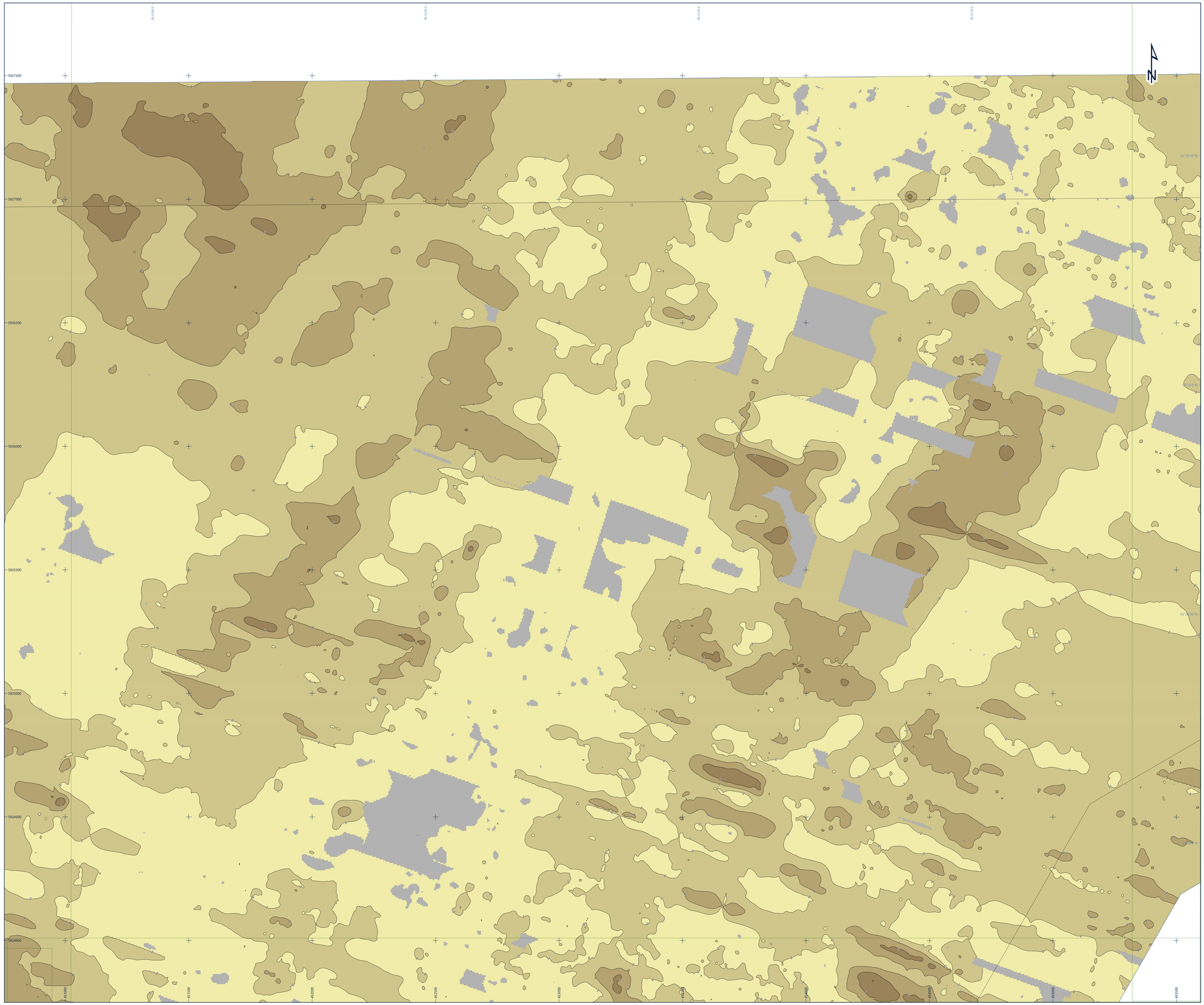
Swindon



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- > 10.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

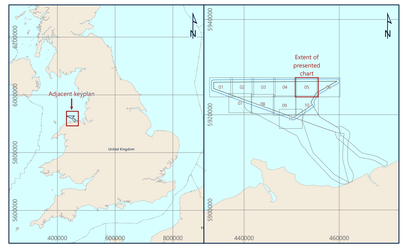
1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE SBP

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

Scale 1 : 5,000 at original A0 page size

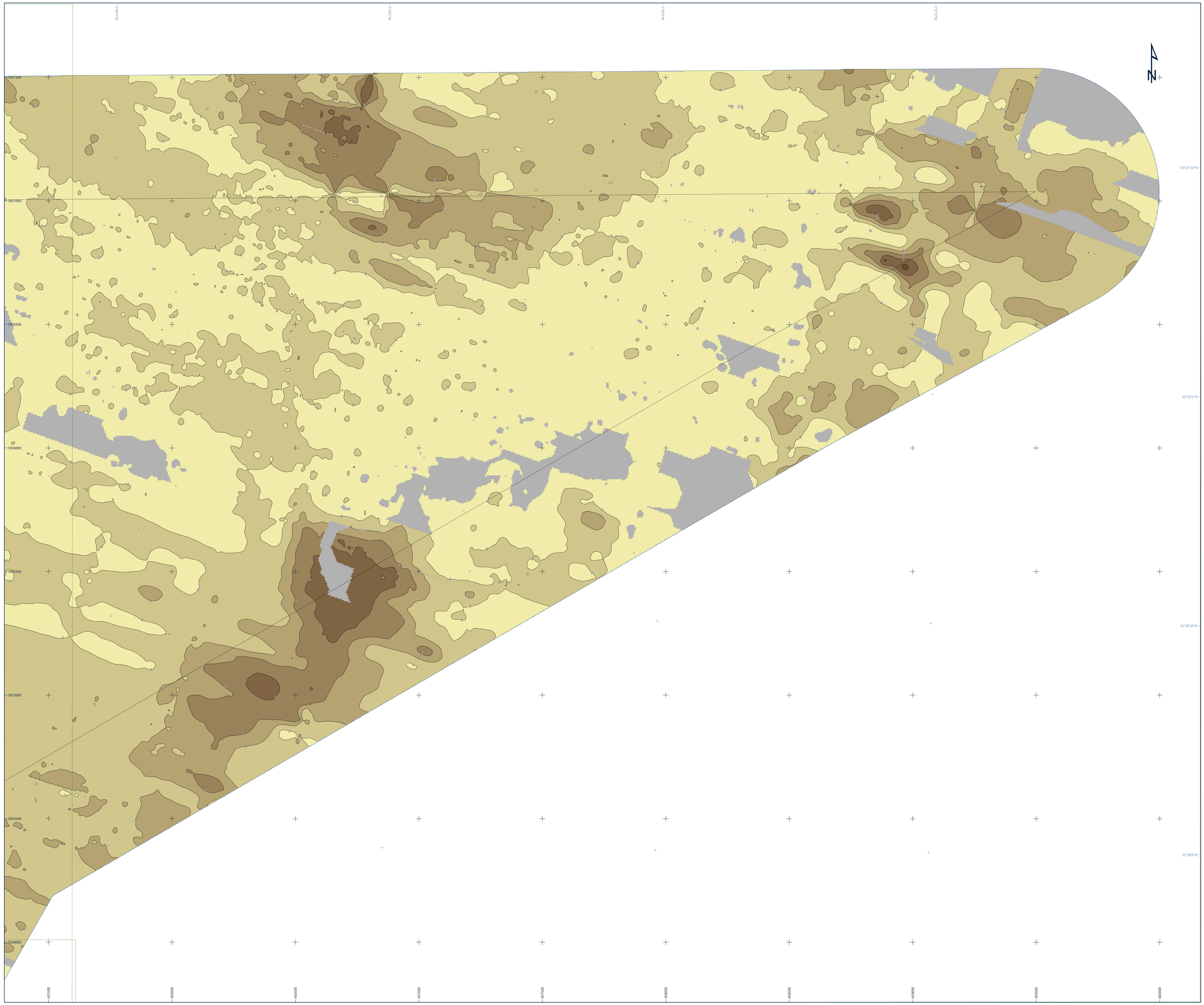
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_SBP_05	05 of 11



Legend

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- Array Survey Extent
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- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

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- Sediment Isochore at 2 m Interval
- Area of No Interpretation

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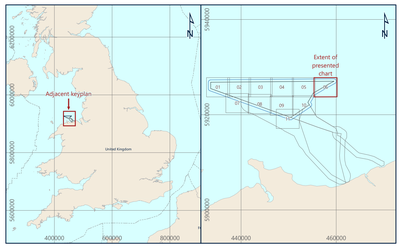

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AWEL Y MÔR OFFSHORE WIND FARM
GEOPHYSICAL SURVEY 2020
UK IRISH SEA

Scale 1 : 5,000 at original A0 page size

0 50 100 200 300 400 500 metres

0 0.025 0.05 0.1 0.15 0.2 0.25 Nautical Miles

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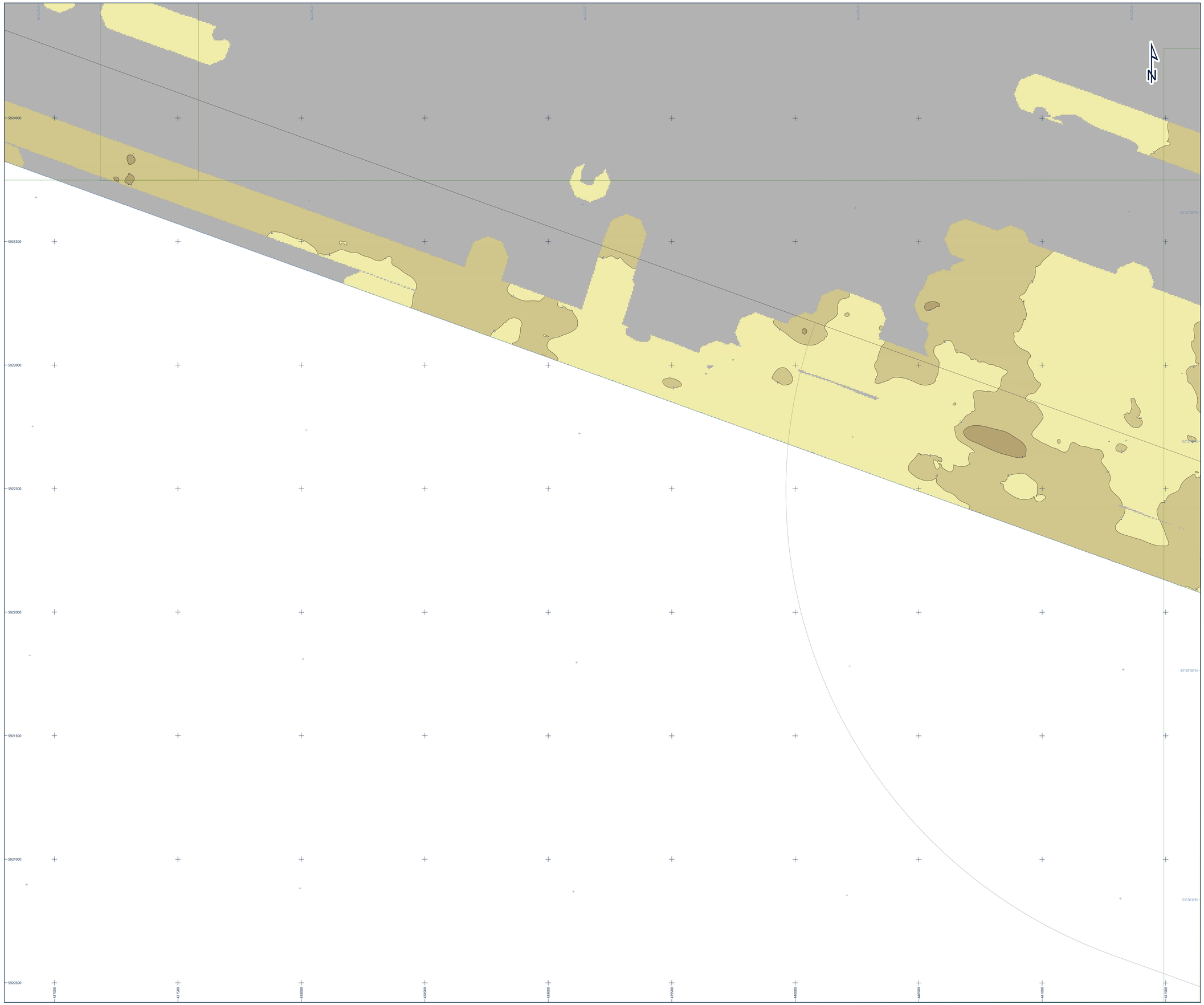
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_SBP_06	06 of 11



Legend

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- Chart Extent
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- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

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- Sediment Isochore at 2 m Interval
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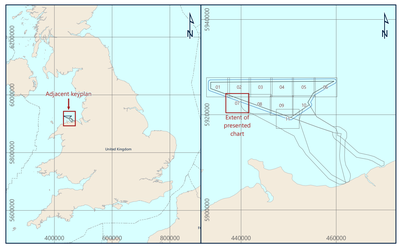

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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE SBP

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

Scale 1 : 5,000 at original A0 page size

0 50 100 200 300 400 500 metres
0 0.025 0.05 0.1 0.15 0.2 0.25 Nautical Miles

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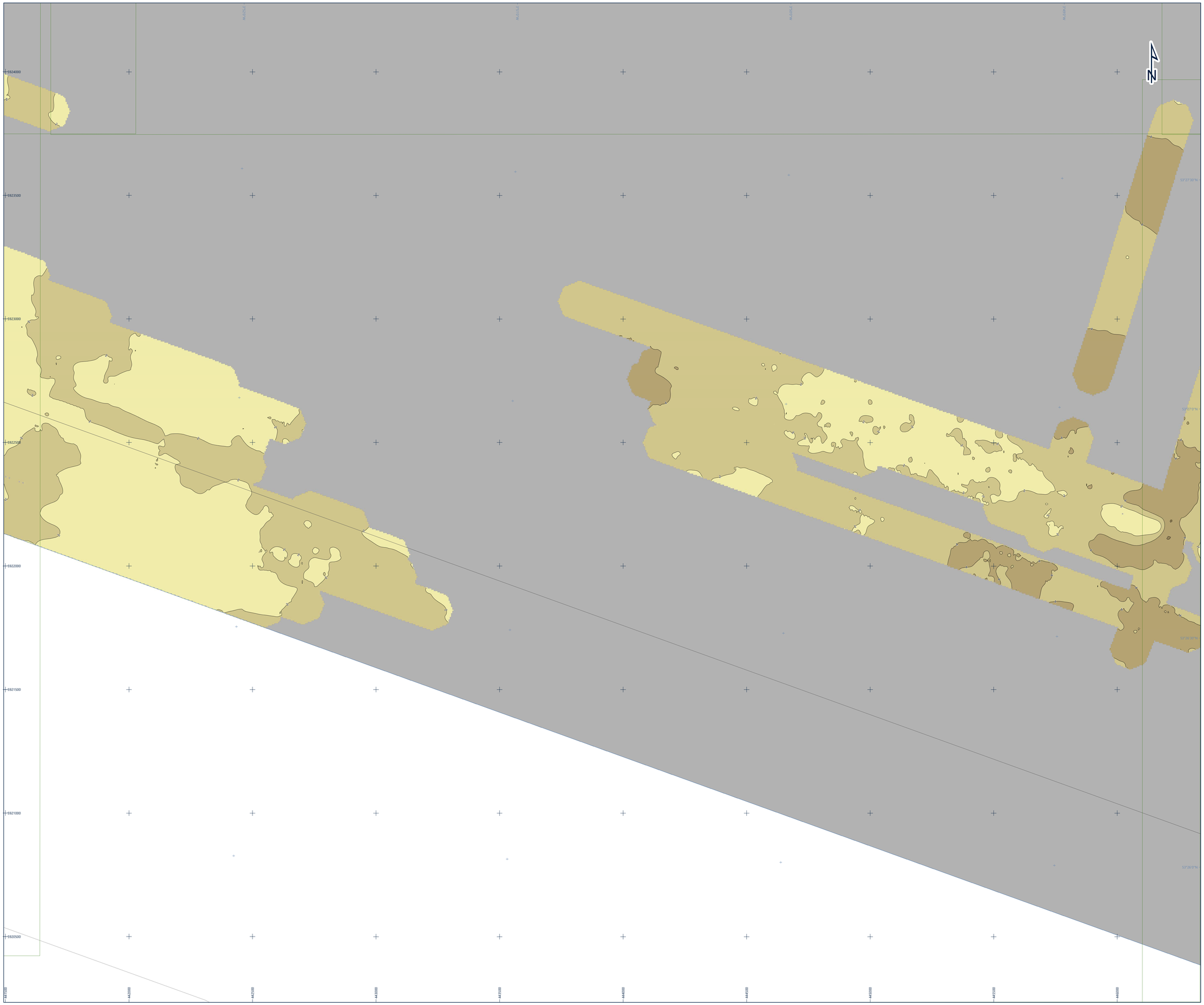
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_Sedimentisochore_SBP_07	07 of 11



Legend

- UTM Grid
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R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

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- Area of No Interpretation

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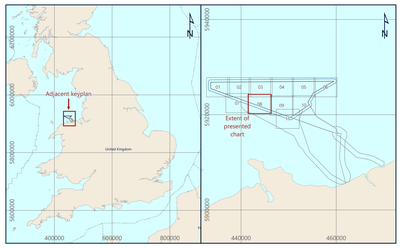

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GEOPHYSICAL SURVEY 2020
UK IRISH SEA

Scale 1 : 5,000 at original A0 page size

0 50 100 200 300 400 500 metres

0 0.025 0.05 0.1 0.15 0.2 0.25 Nautical Miles

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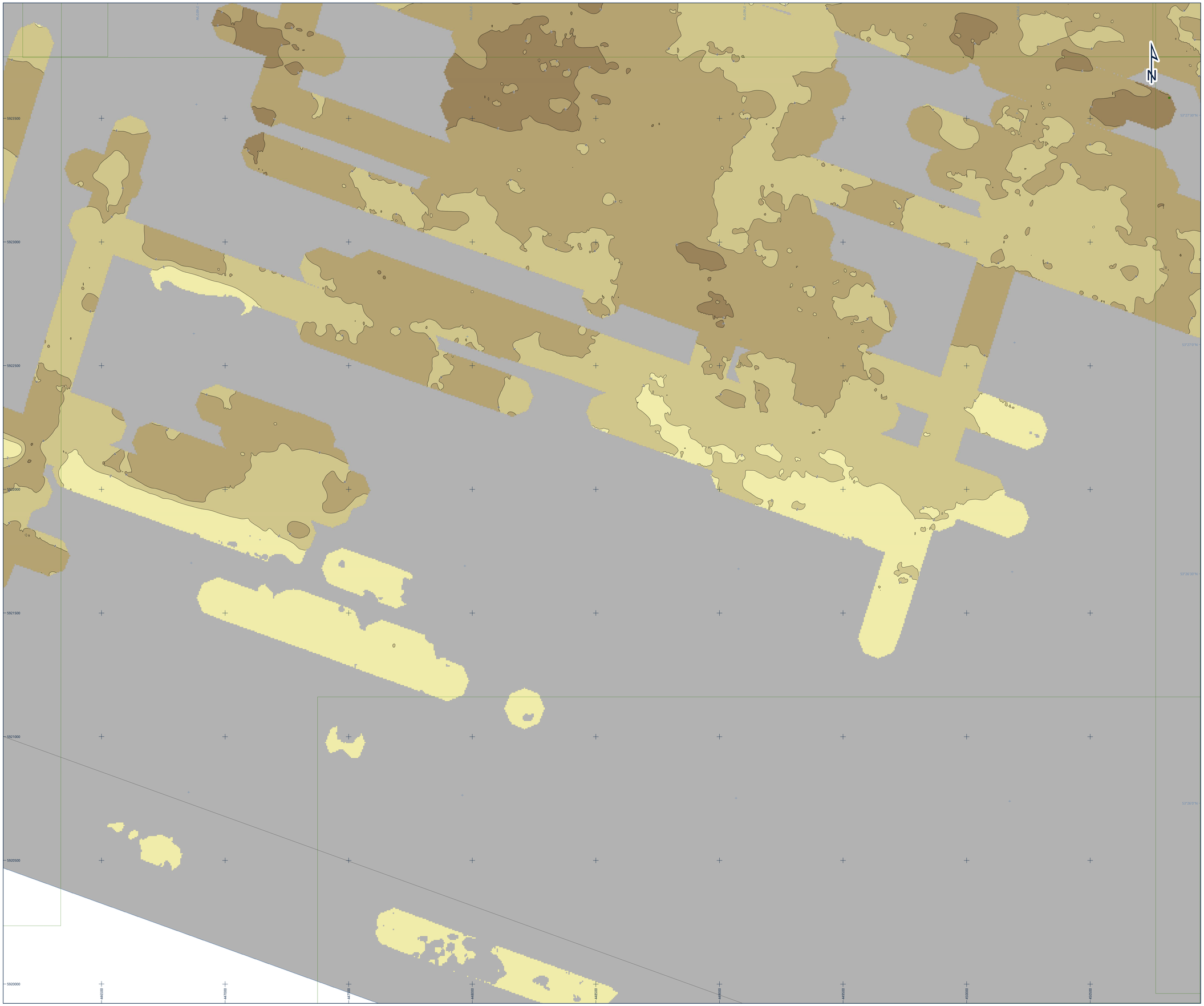
Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_SBP_08	08 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
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R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

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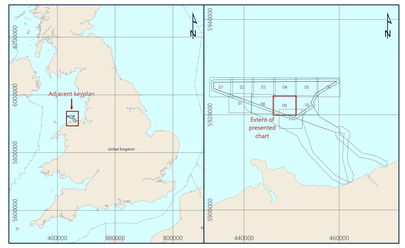
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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

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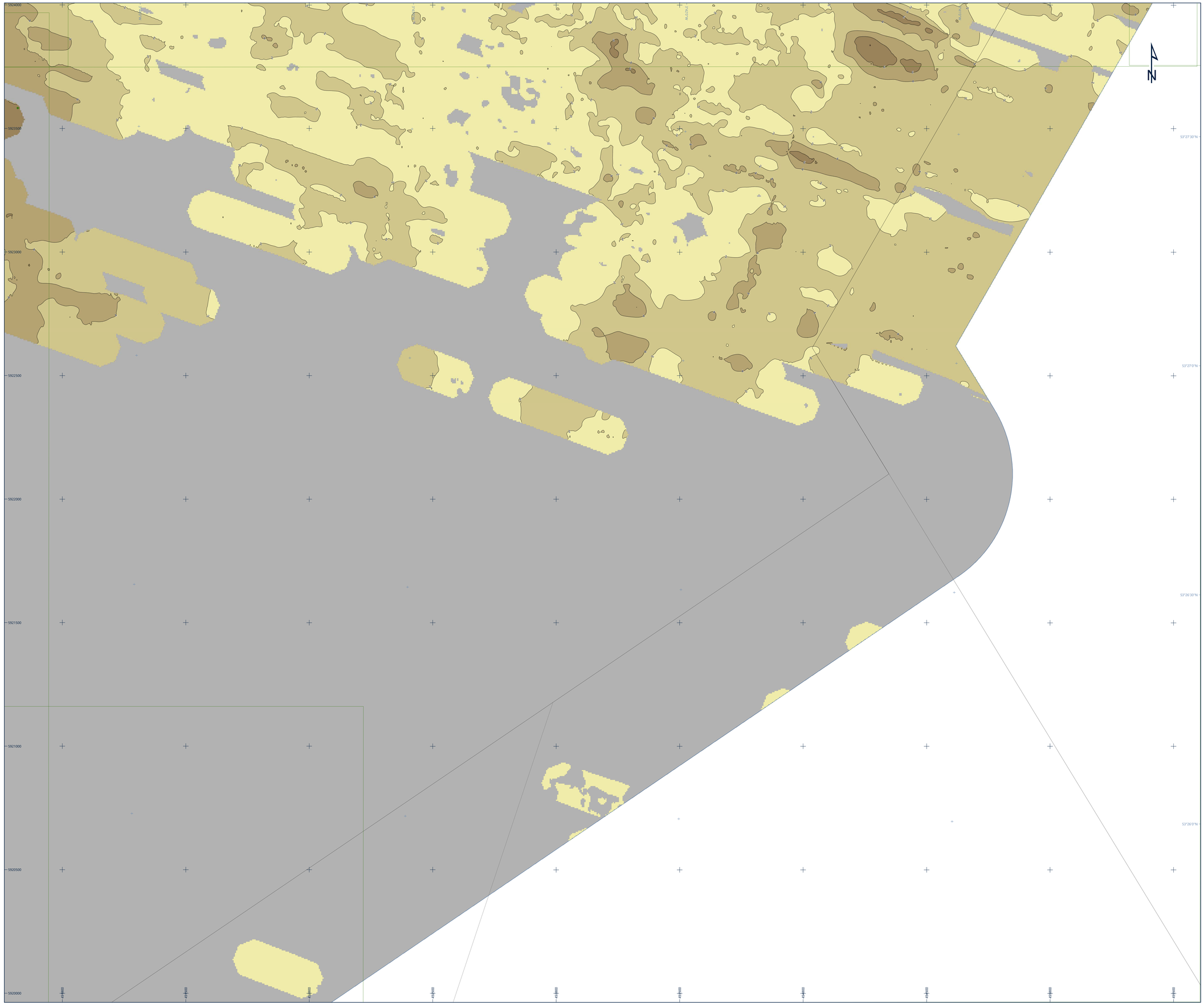
Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_SBP_09	09 of 11



Legend

- UTM Grid
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- Chart Extent
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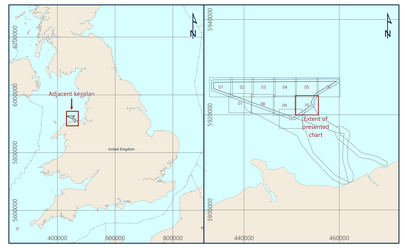

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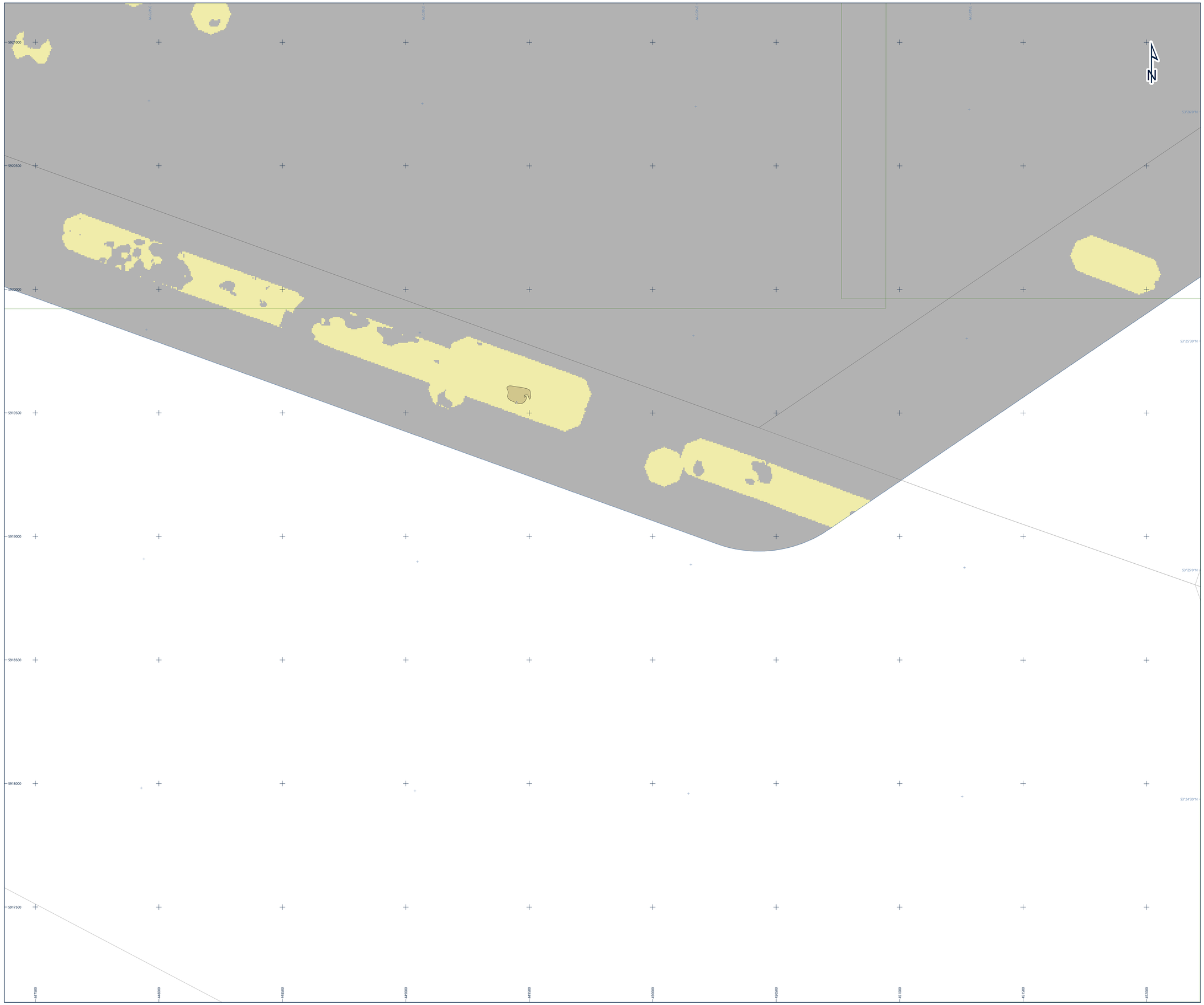
Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_SBP_10	10 of 11



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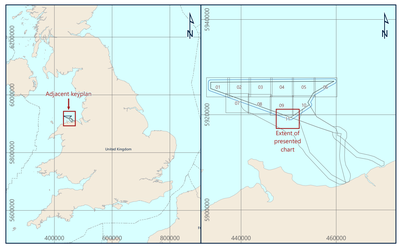

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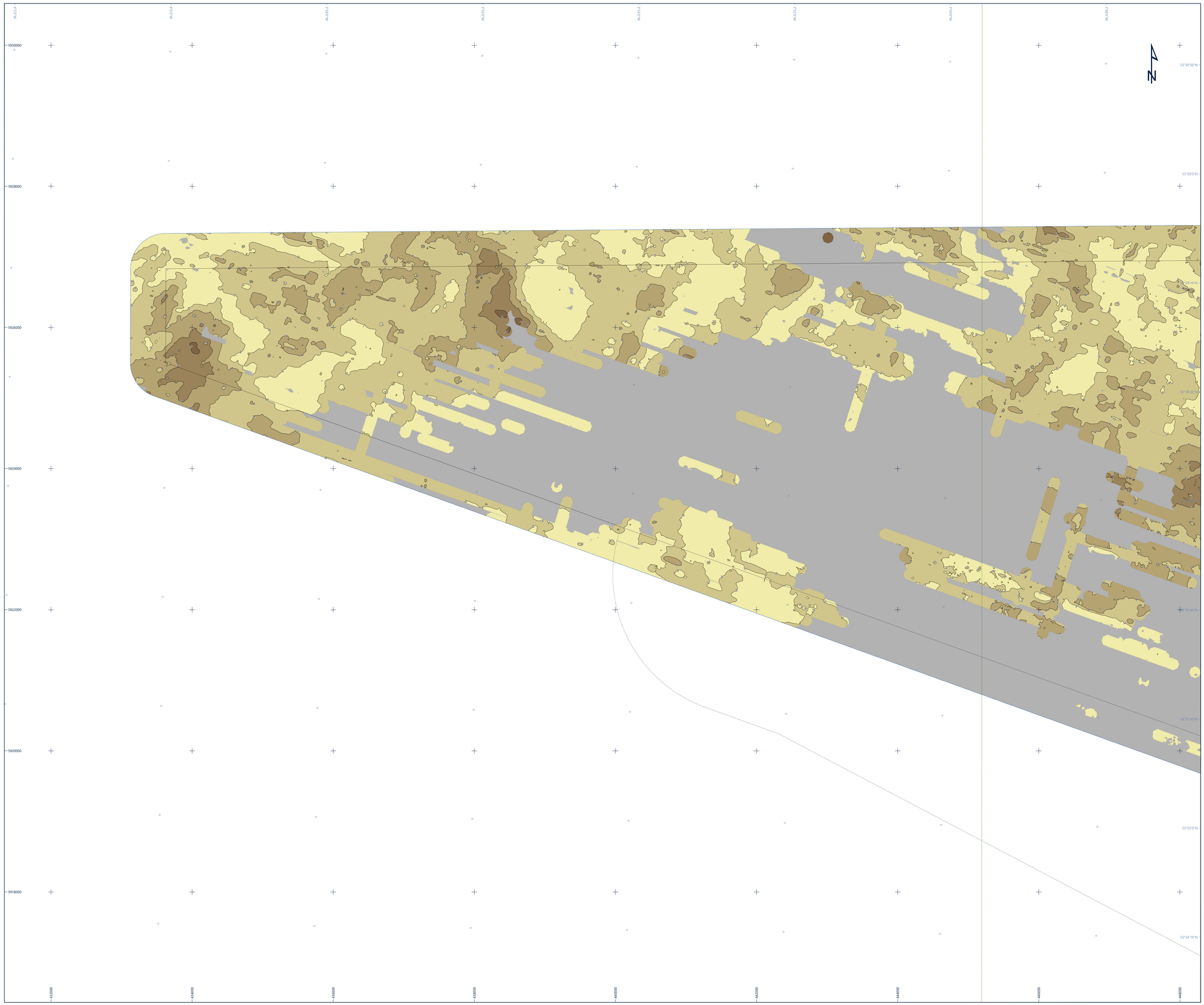
200655_Array_R04_WIS_Lower_SedimentIsochore_SBP_11	11 of 11



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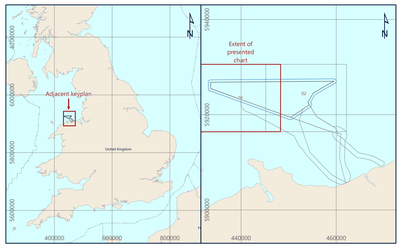
Geodetic datum	World Geodetic System 1984
Ellipsoid	WGS84
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996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



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Fugro
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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE SBP OVERVIEW

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

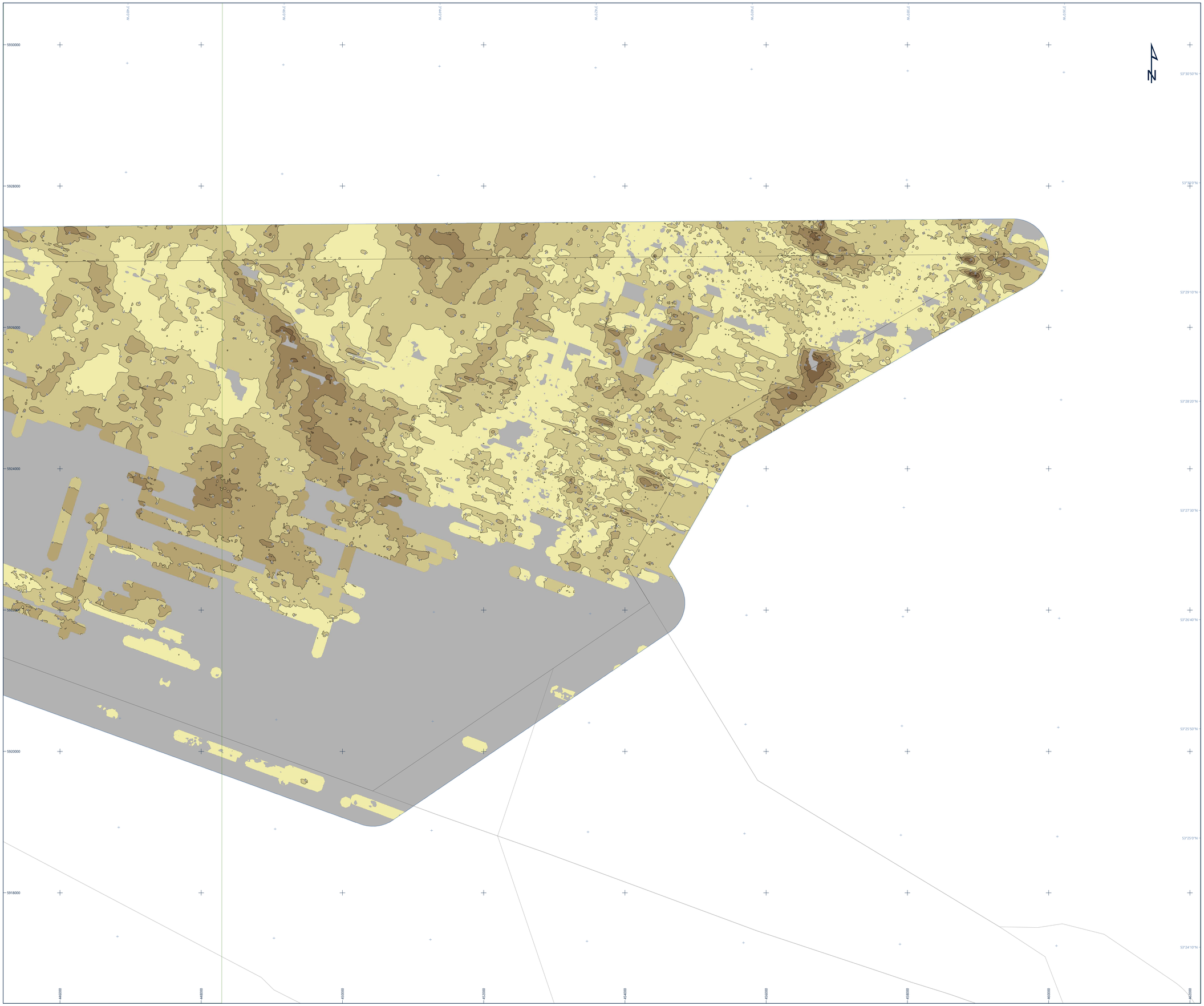
Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres
0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_SBP_Overview_01	01 of 02



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- > 10.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

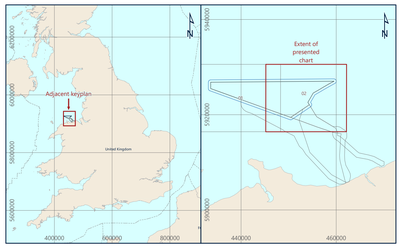
1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE SBP OVERVIEW

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

Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres
0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

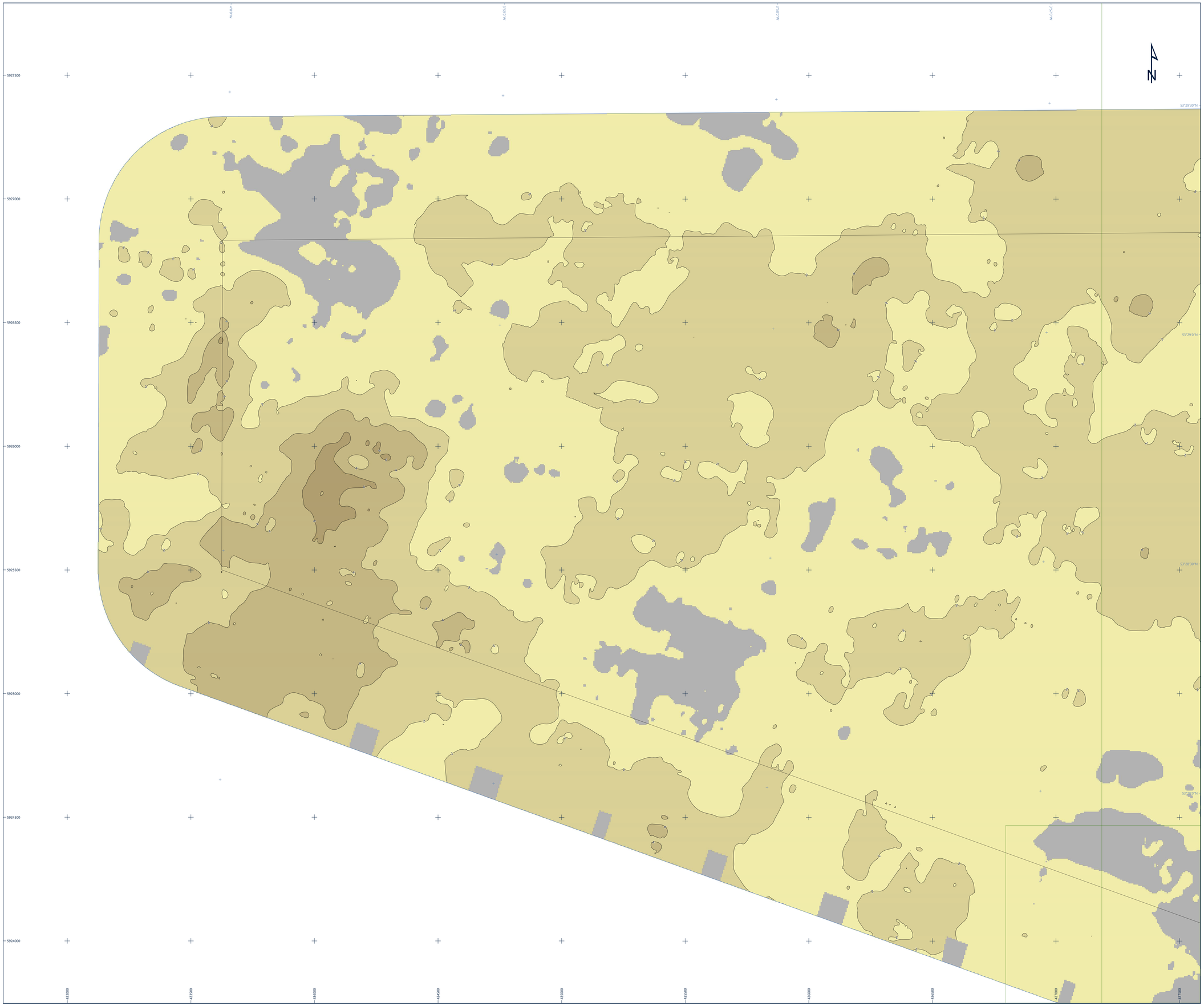
File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_SBP_Overview_02	02 of 02

Appendix J

Charts - R04 Western Irish Sea

Lower Sediment Isochore

(UHRS)



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

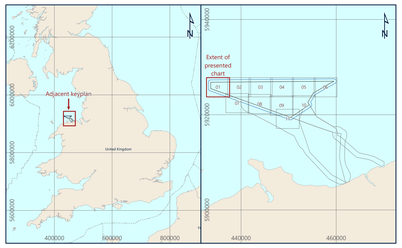
1) Interpretation is from UHRS data only.

2) Grids have been derived fromUHRSdata in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

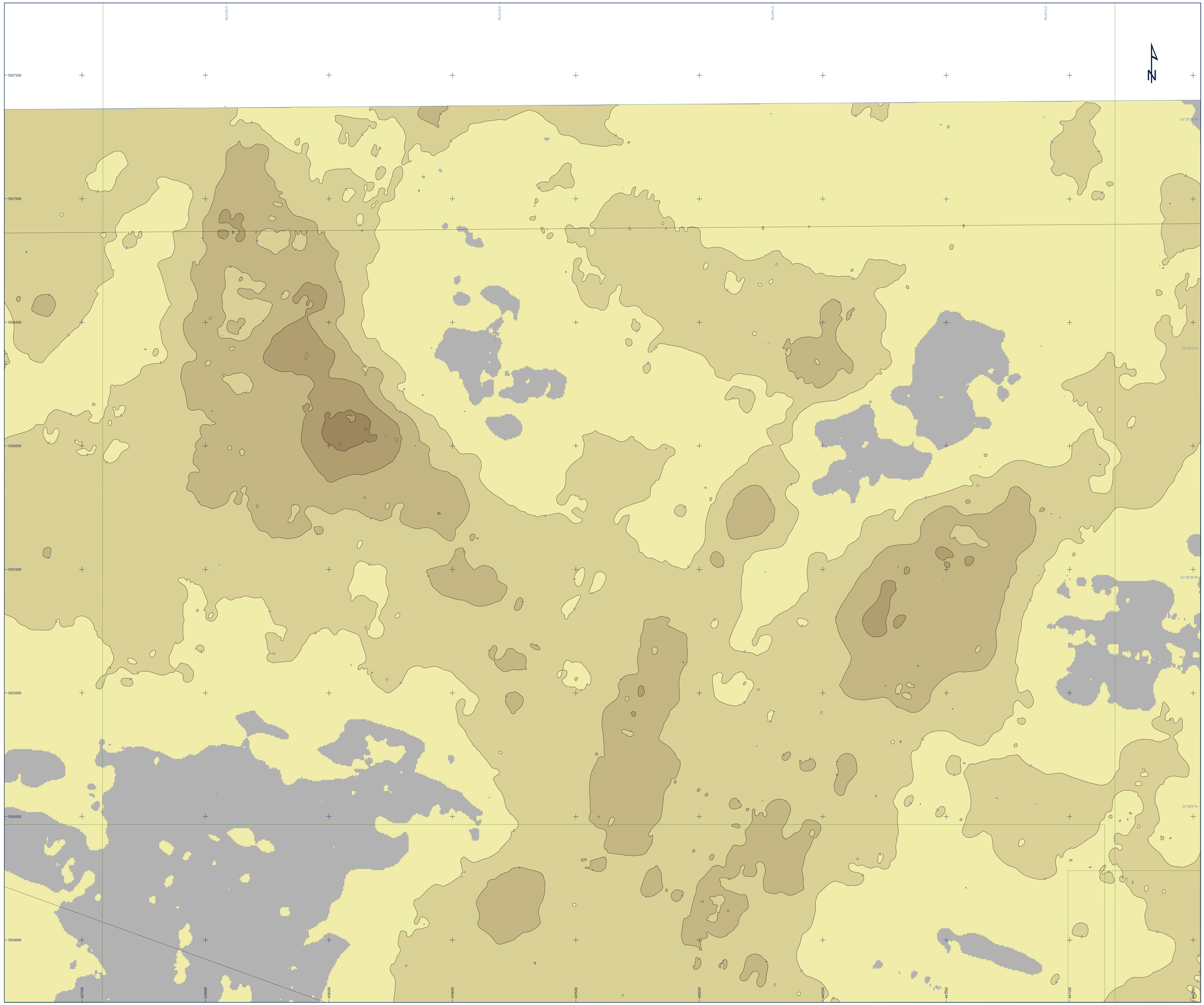
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relssue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_01	01 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

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Geodetic Parameters

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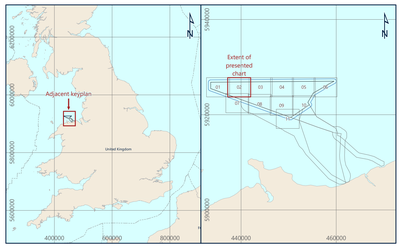
Ellipsoid	WGS84
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298,257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

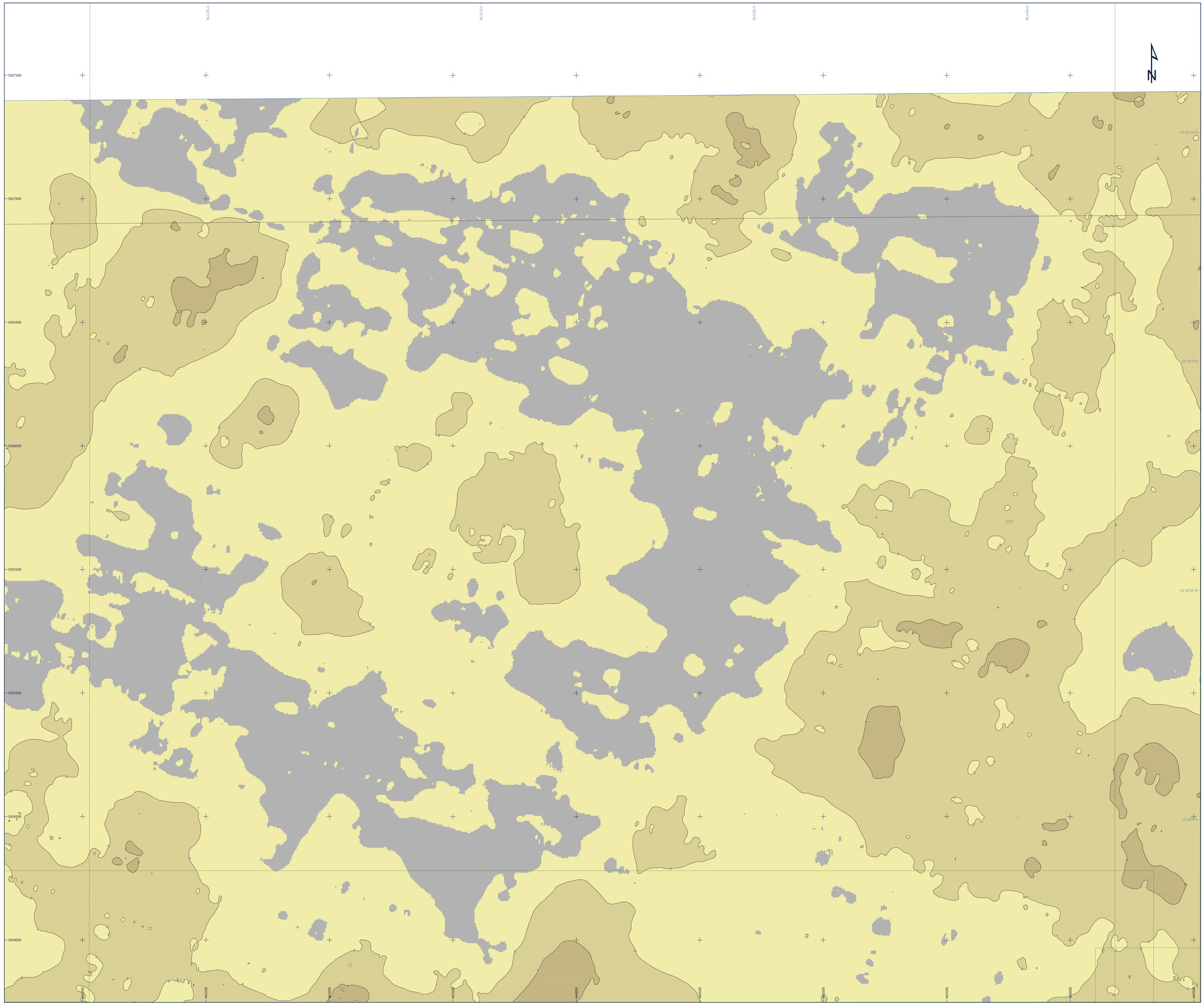
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final ReIssue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_02	02 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

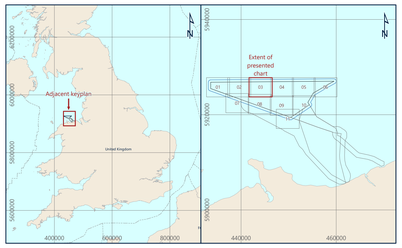
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

Scale 1 : 5,000 at original A0 page size

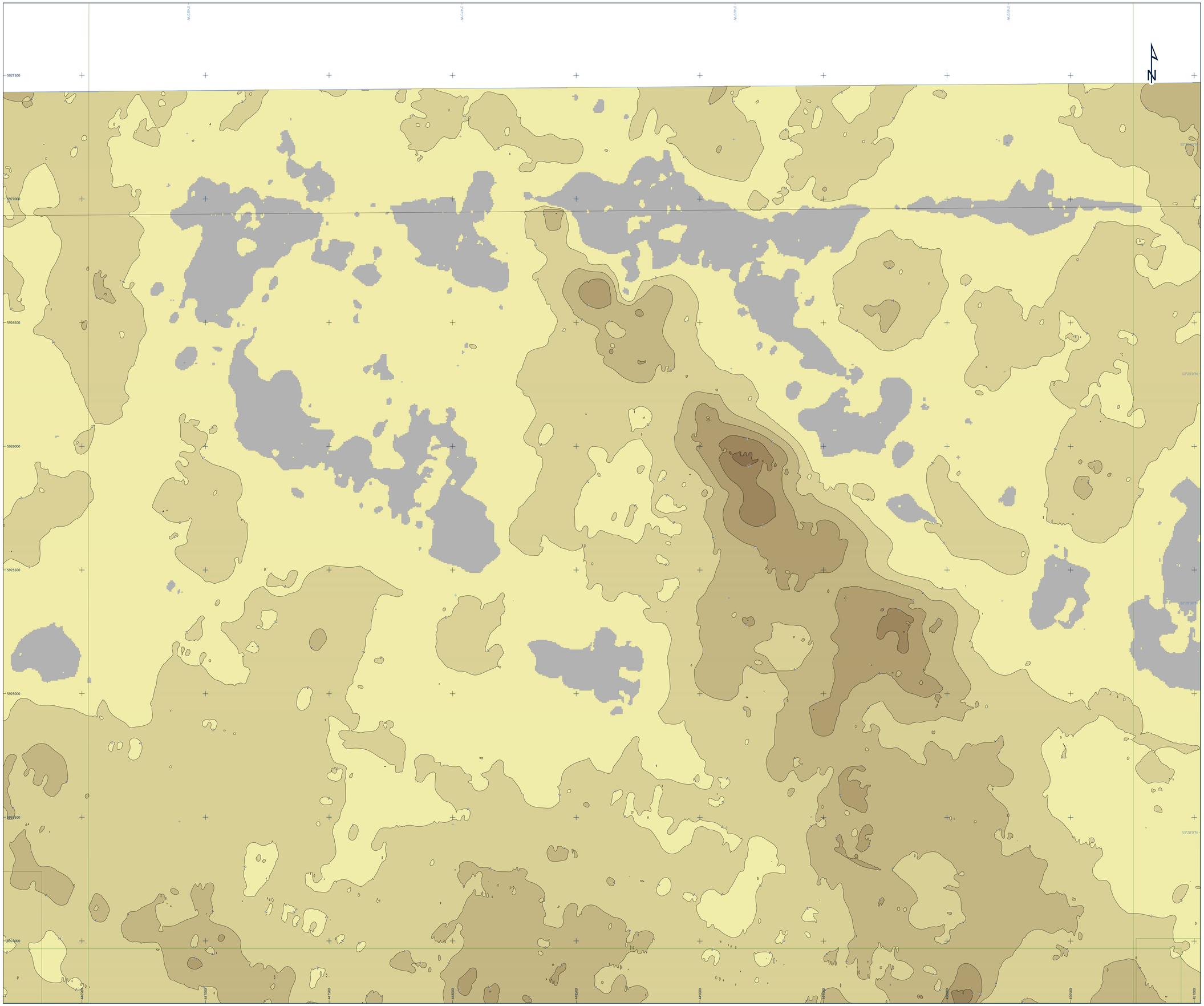
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_03	03 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

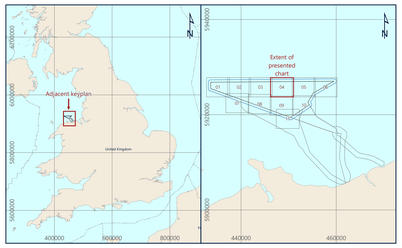
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

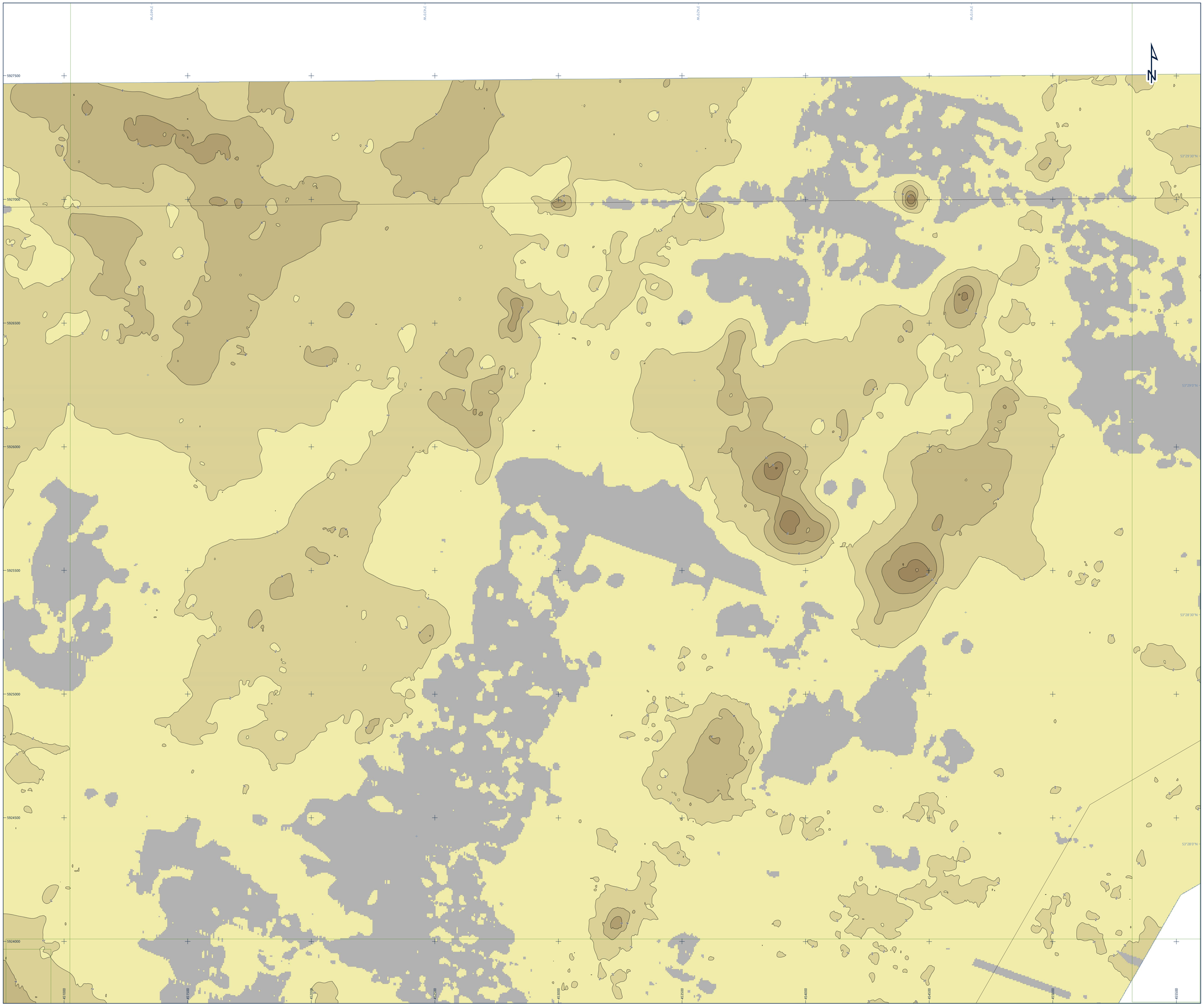
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_UHRS_04	04 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Interpretation is from UHRS data only.

2) Grids have been derived fromUHRSdata in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

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Geodetic Parameters

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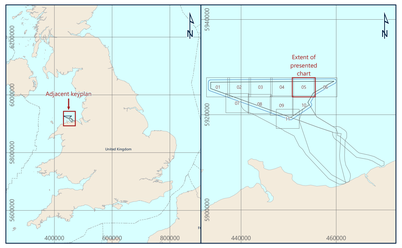
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG: 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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	ODT	DS	SB	BPT
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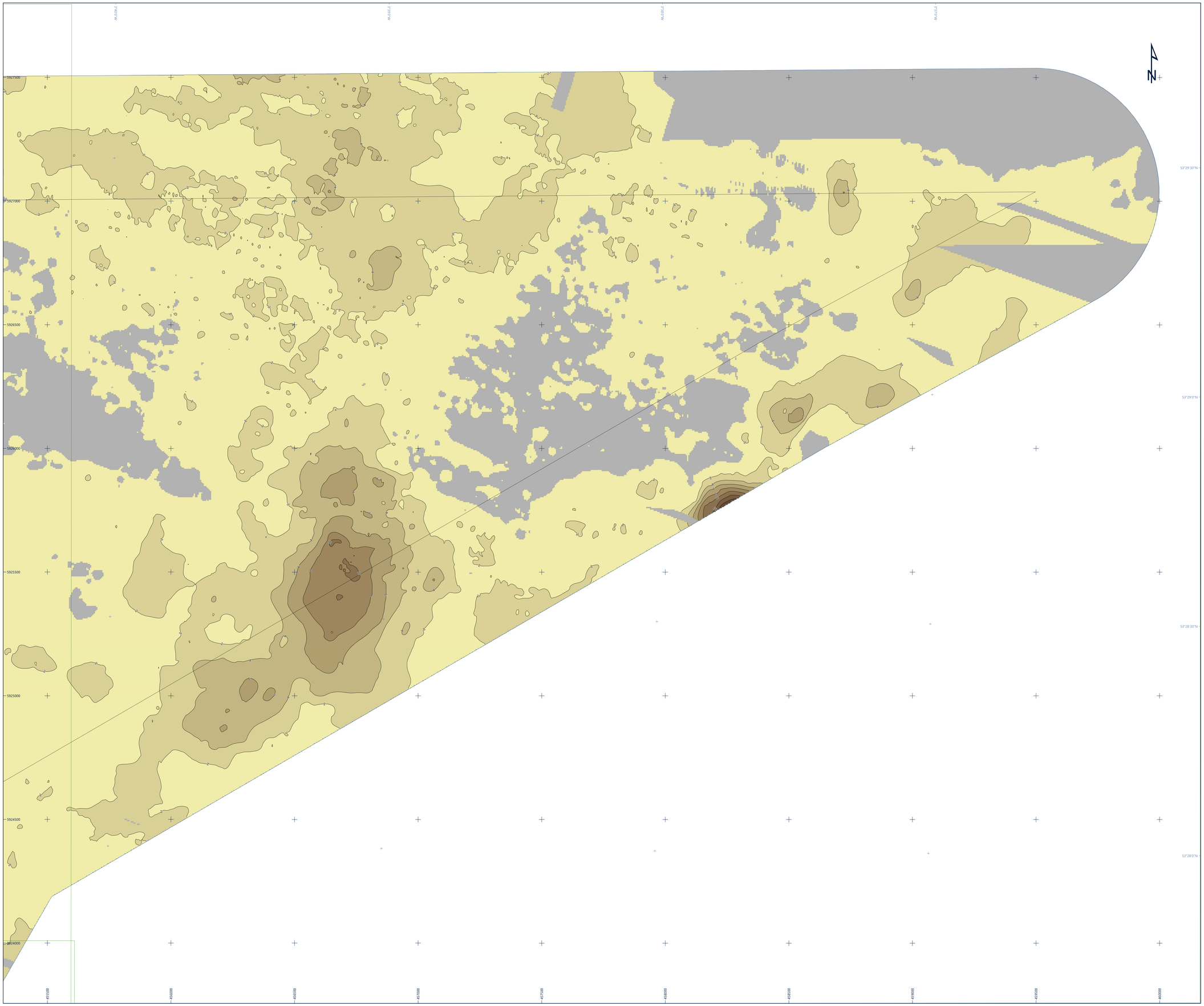
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_05	05 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

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Geodetic Parameters

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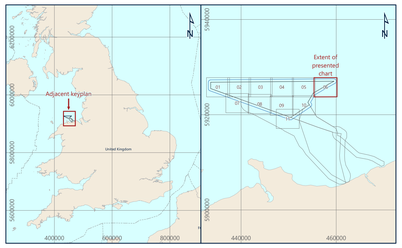
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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	ODT	DS	SB	BPT
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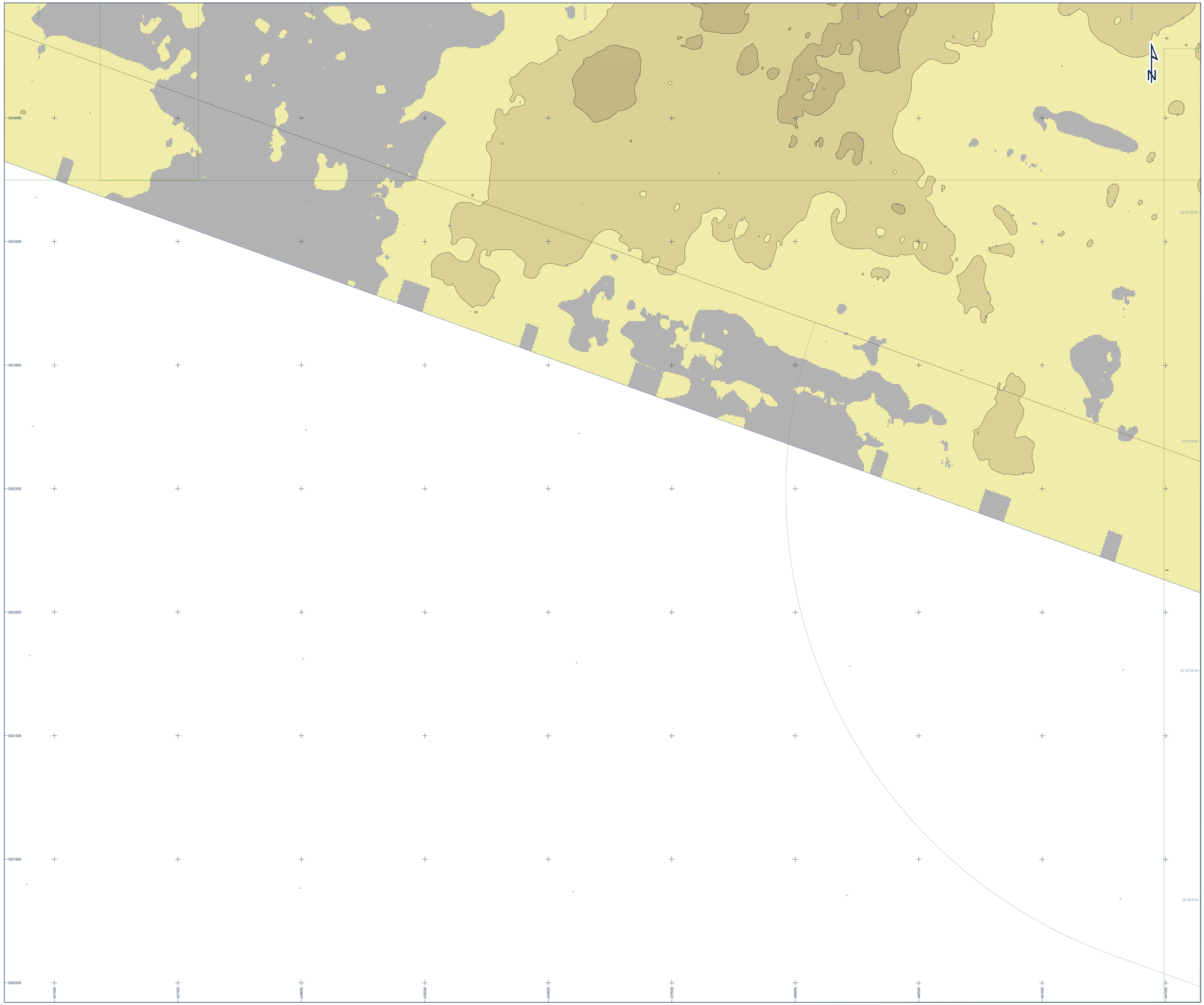
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_06	06 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

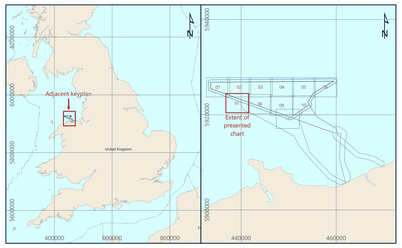
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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Fugro
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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

Scale 1 : 5,000 at original A0 page size

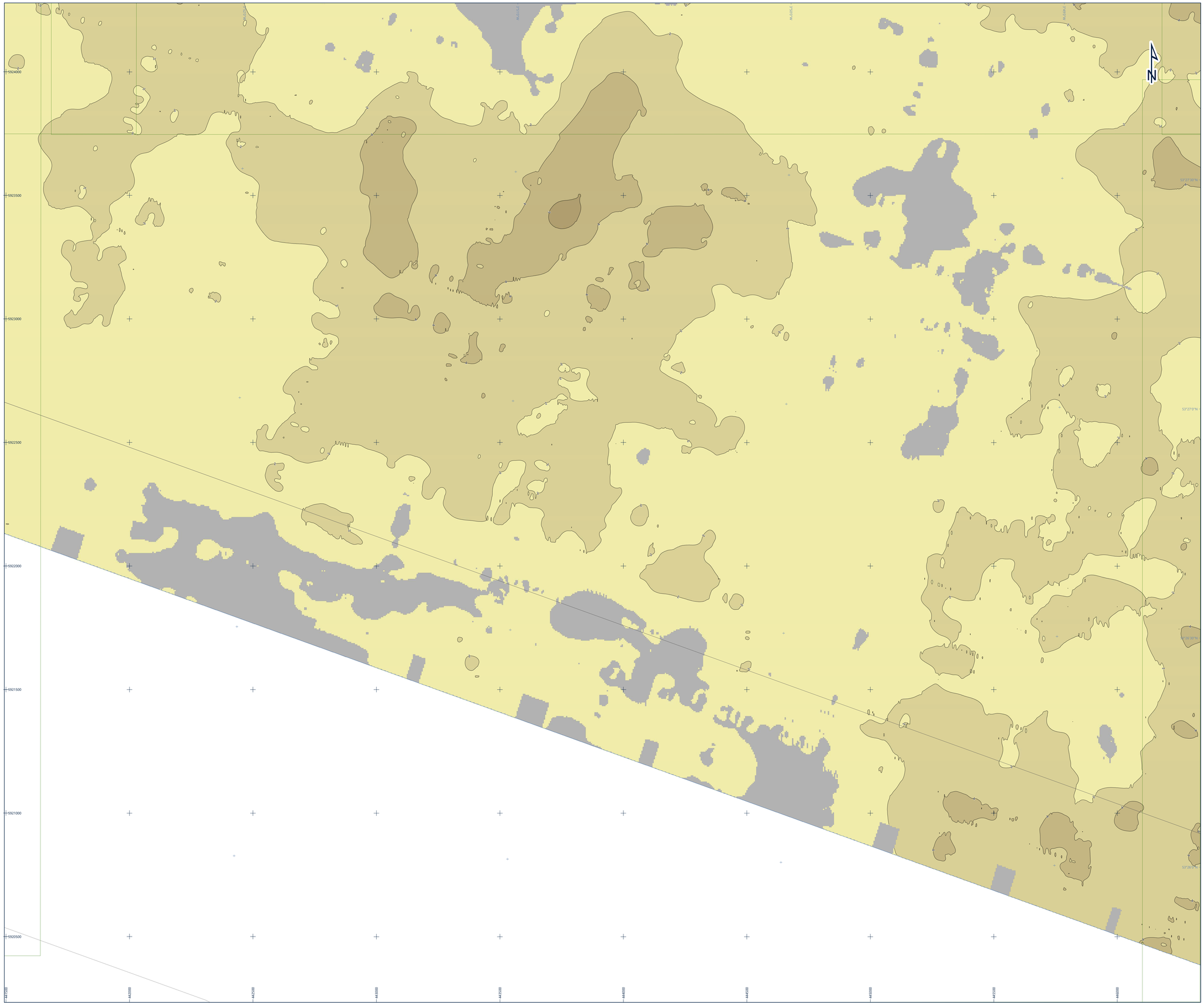
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_Sedimentisochore_UHRS_07	07 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

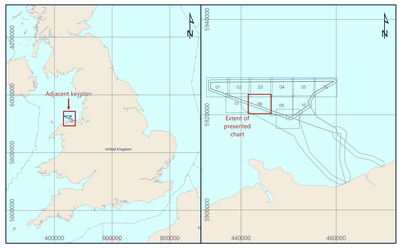
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

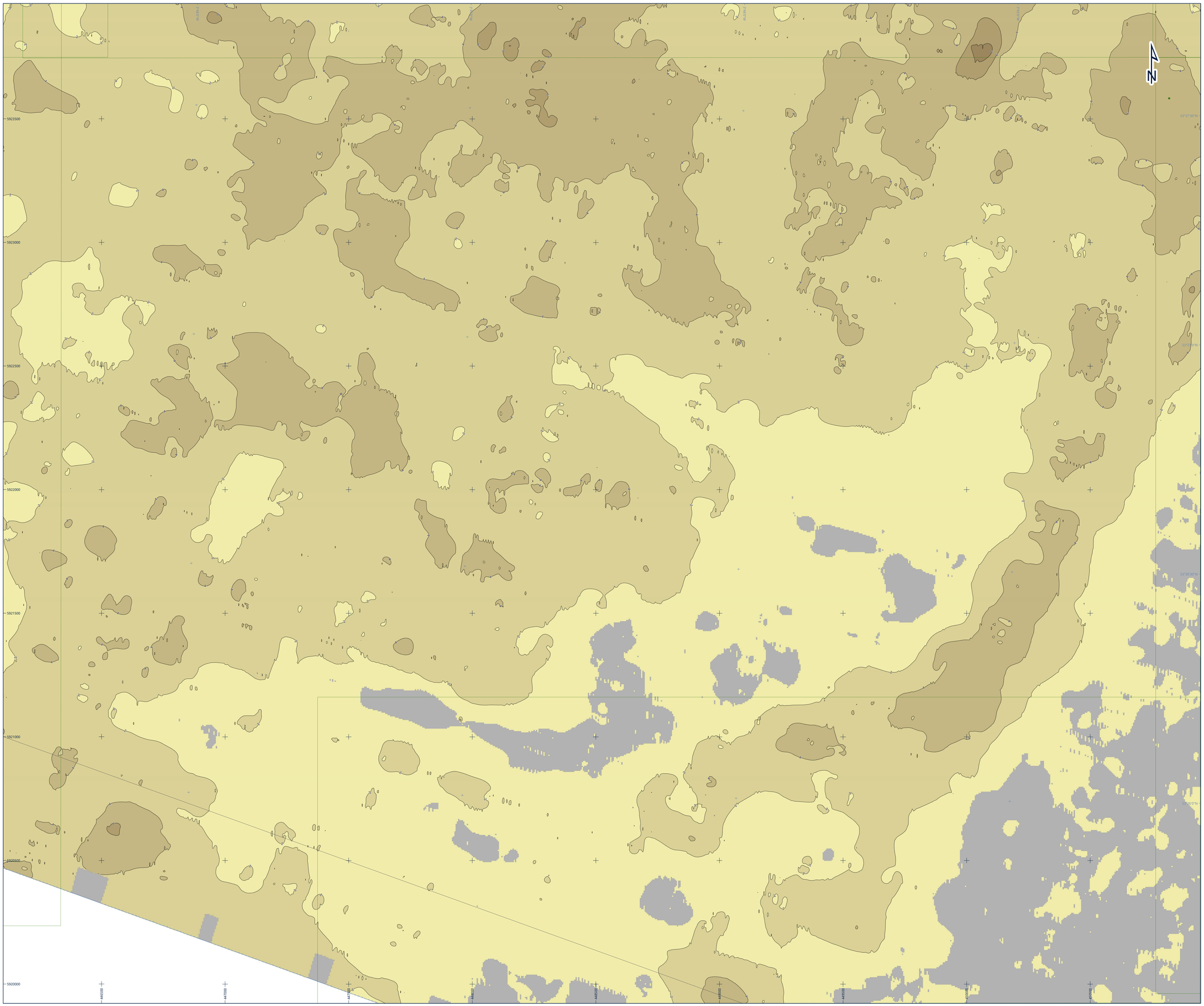
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_UHRS_08	08 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

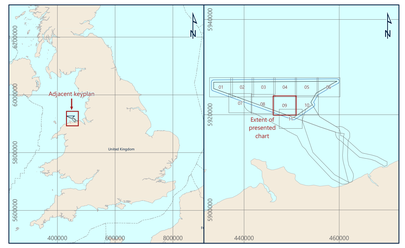
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

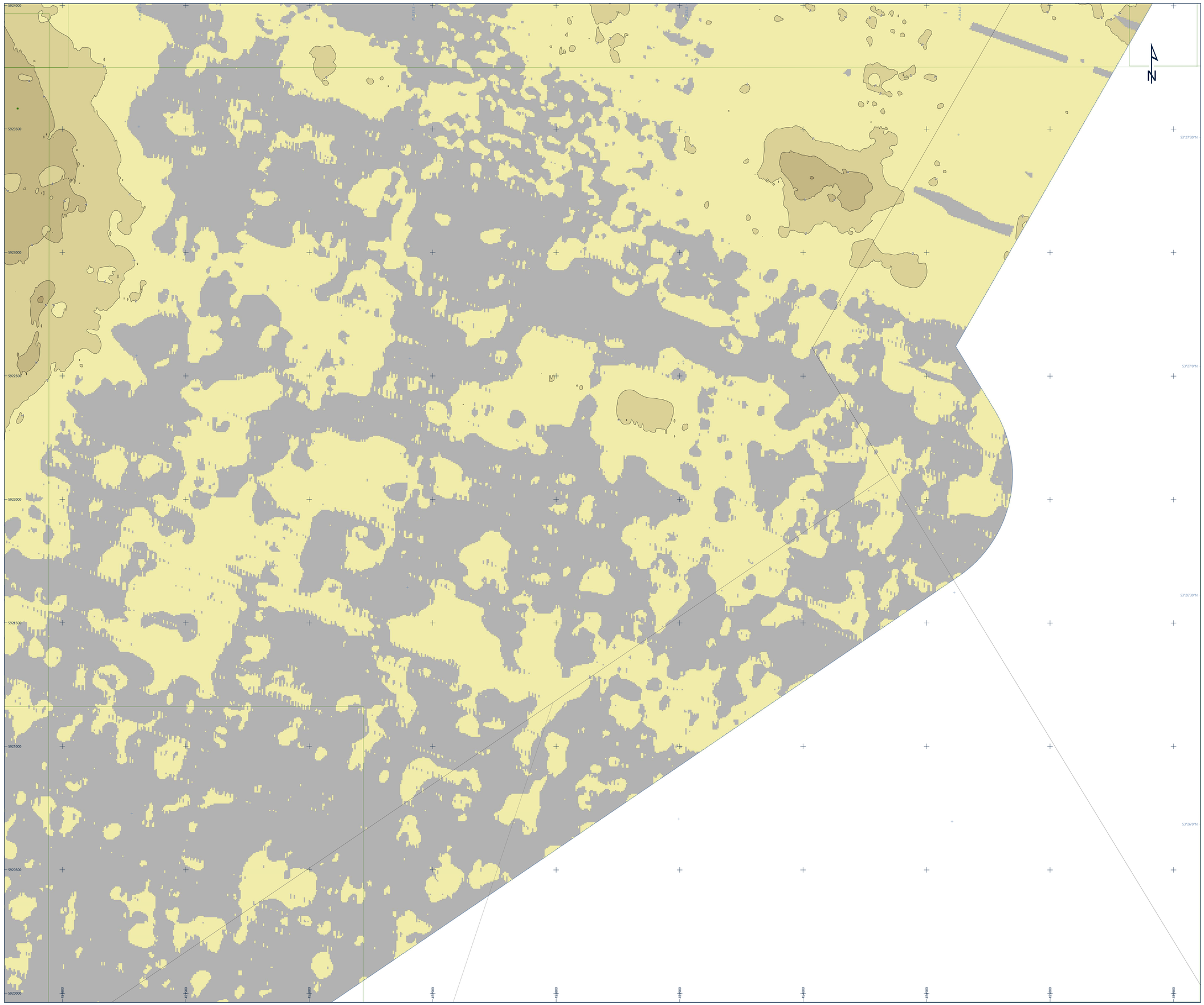
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_09	09 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

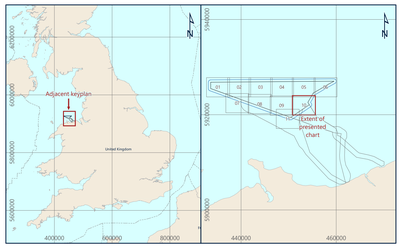
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

Scale 1 : 5,000 at original A0 page size

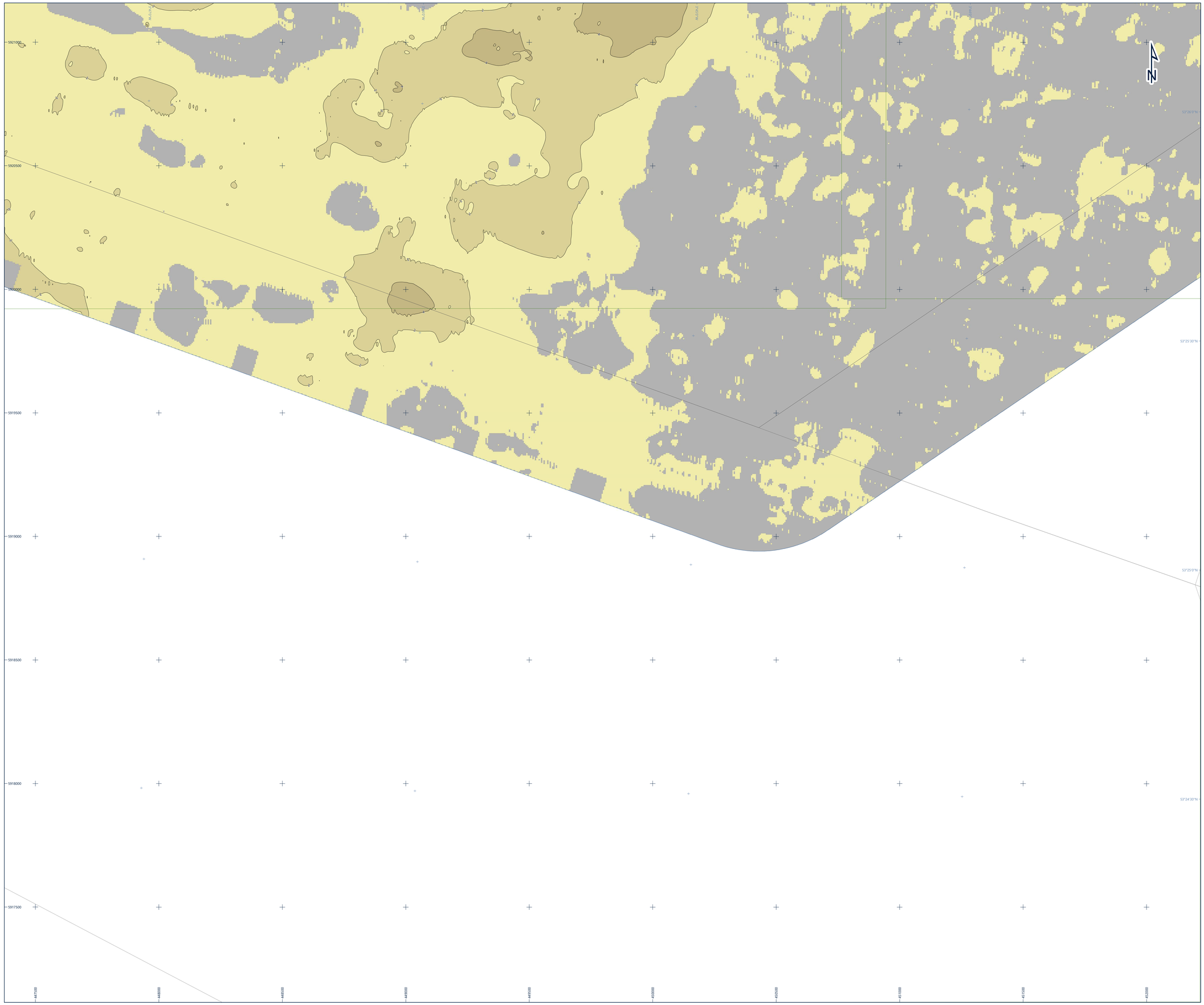
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_UHRS_10	10 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

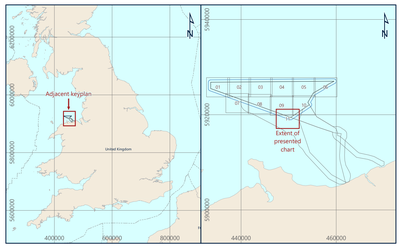
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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Fugro
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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS

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

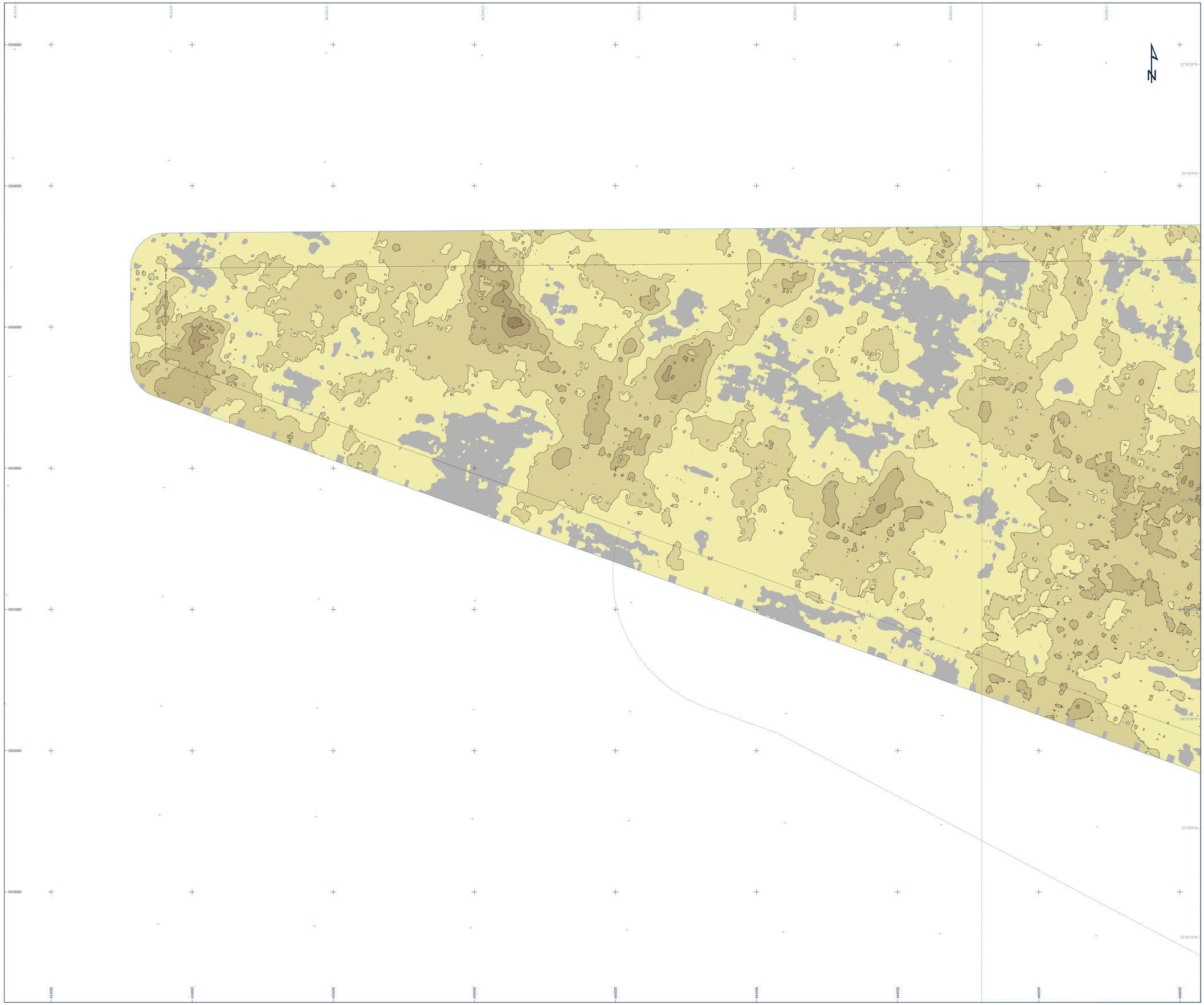
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final ReIssue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_UHRS_11	11 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

Geodetic Parameters

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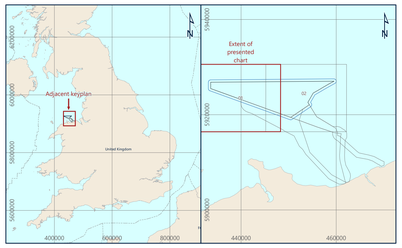
Ellipsoid	WGS84
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide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



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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS OVERVIEW

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

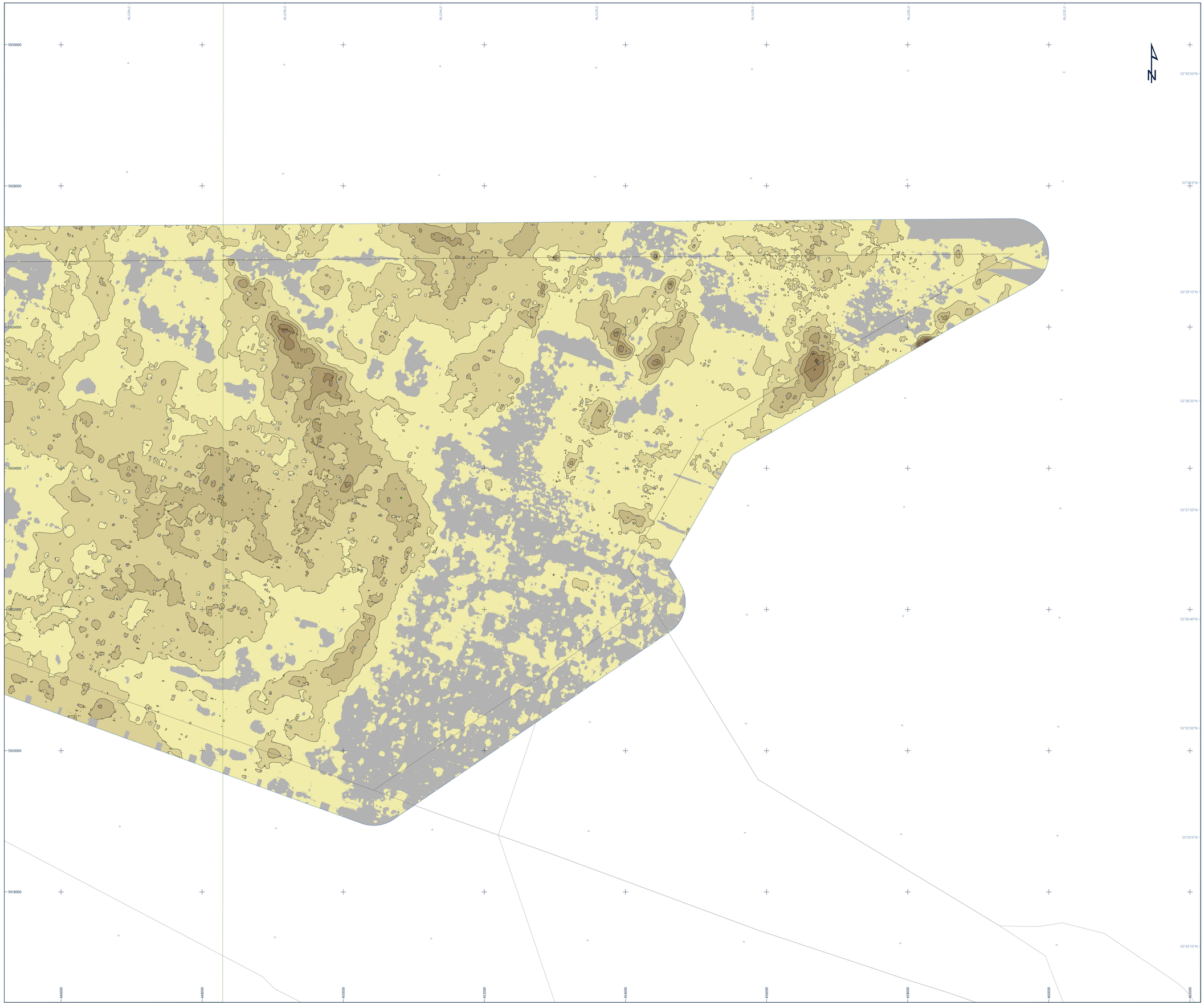
Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres
0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_UHRS_Overview_01	01 of 02



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

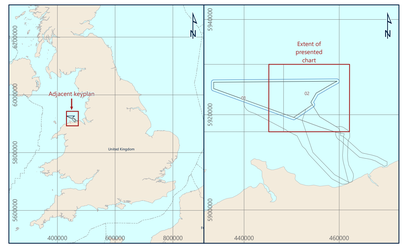
1) Interpretation is from UHRS data only.

2) Grids have been derived from UHRS data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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FUGRO

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE UHRS OVERVIEW

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

Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres

0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

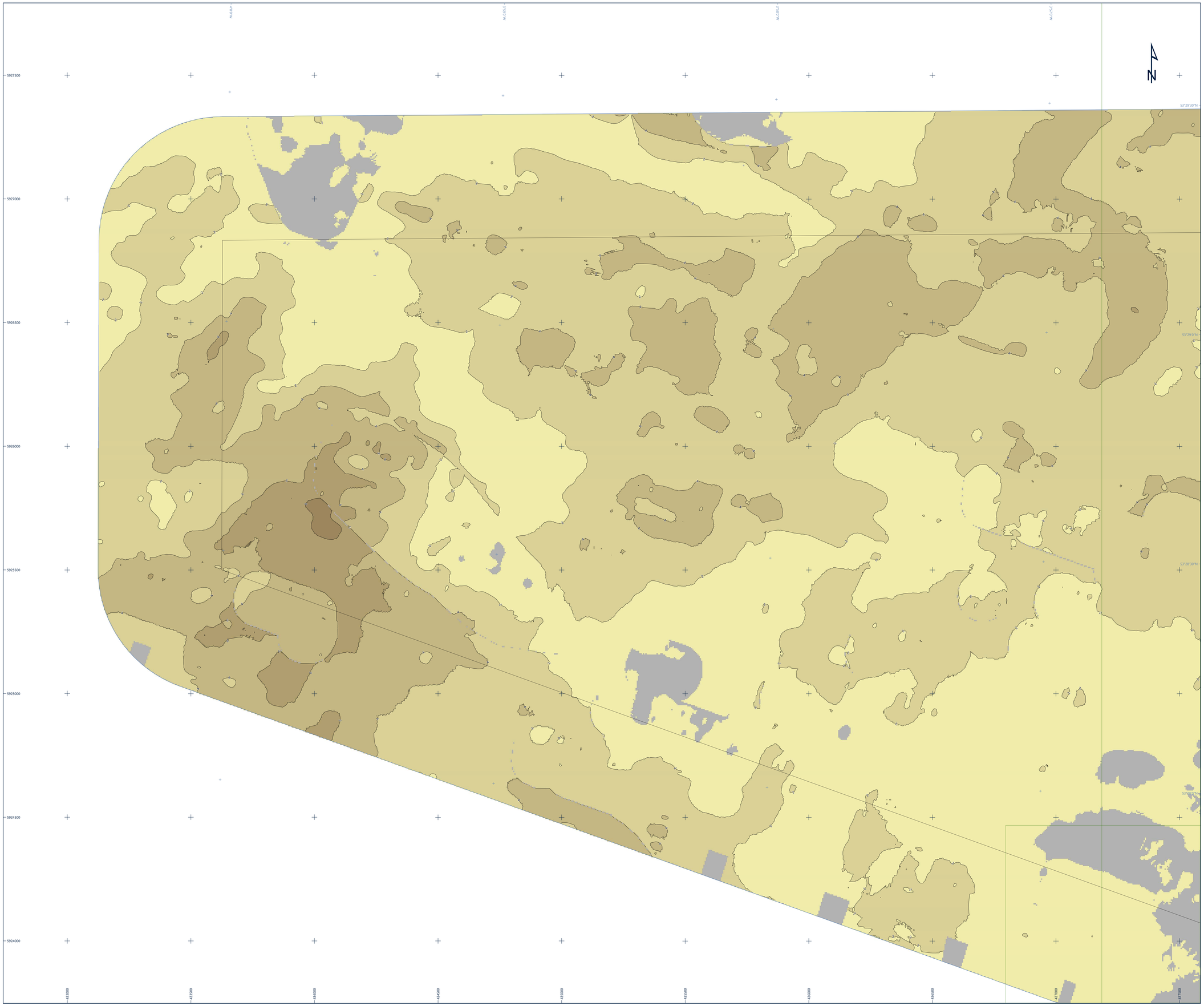
File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_UHRS_Overview_02	02 of 02

Appendix K

Charts - R04 Western Irish Sea

Lower Sediment Isochore

(Combined SBP and UHRS)



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

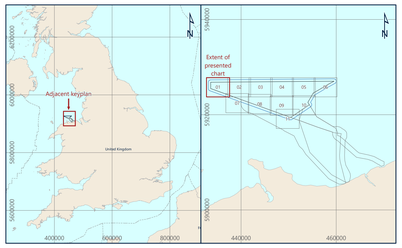
2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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Fugro
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Tel: +44 23 9220 5500

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

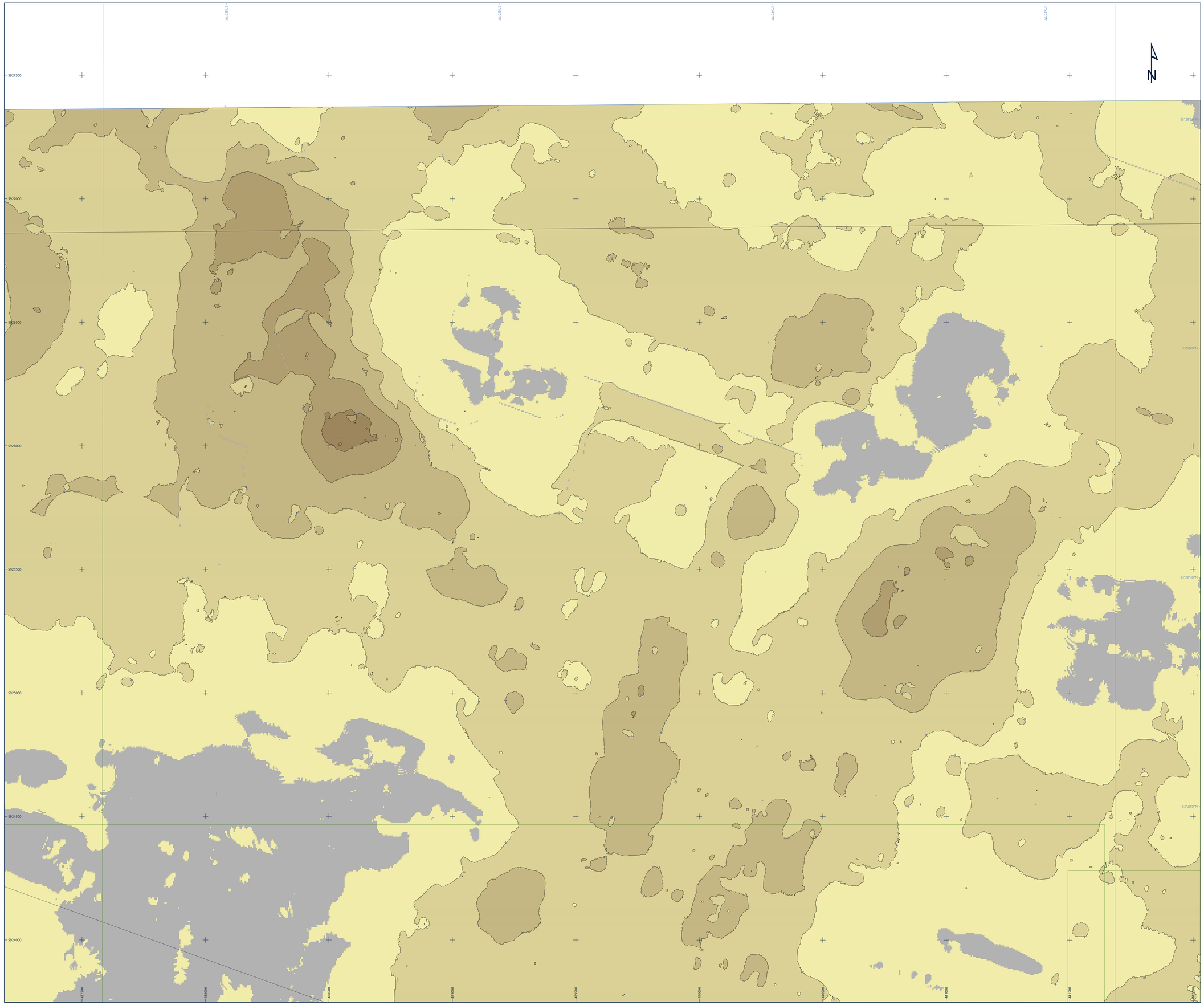
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_01	01 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

Geodetic Parameters

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Ellipsoid	WGS84
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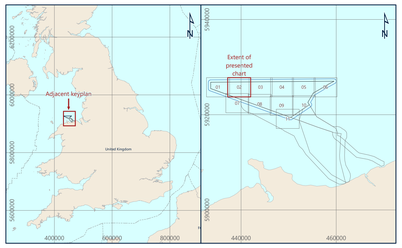
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

Scale 1 : 5,000 at original A0 page size

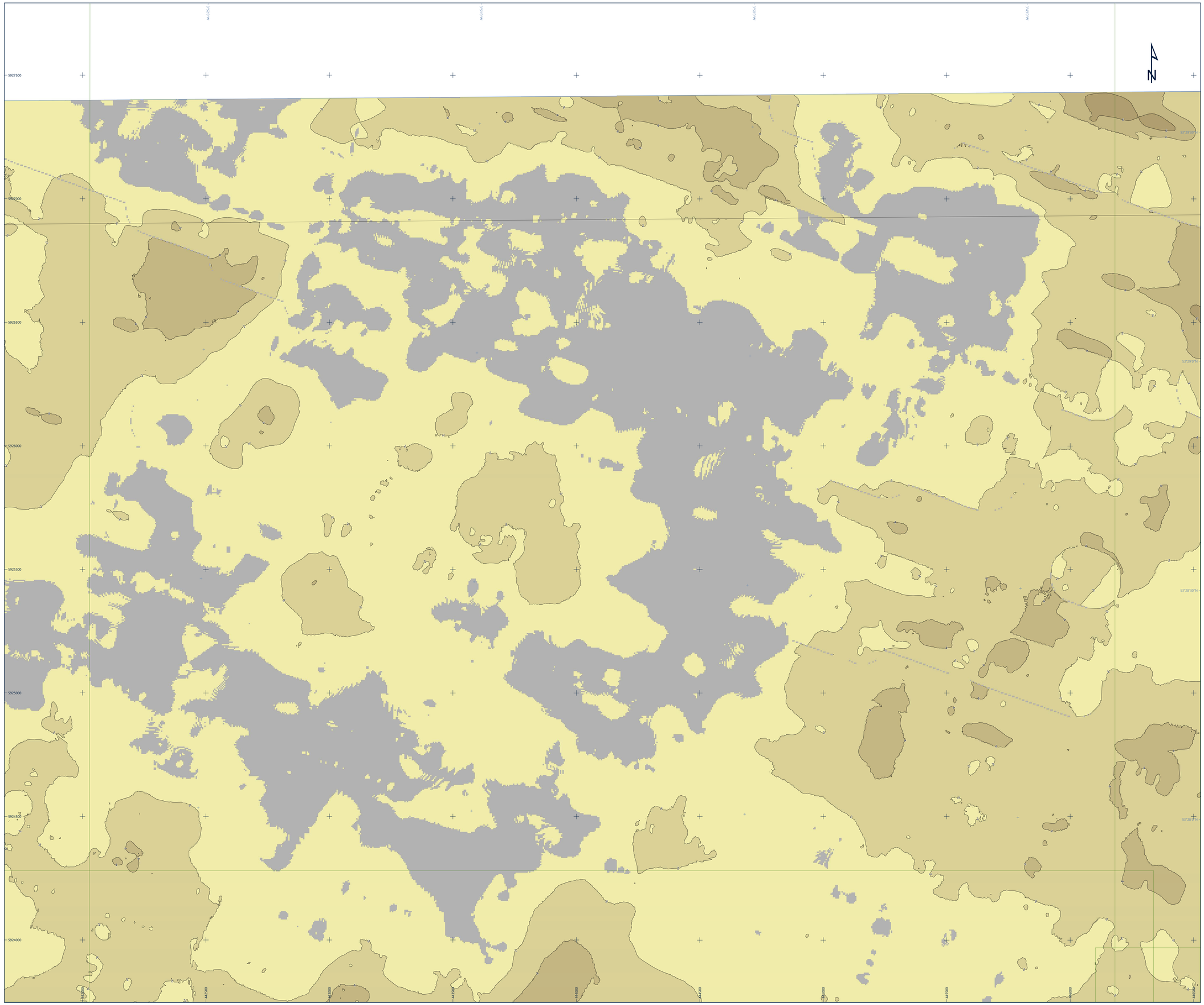
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_Sedimentisochore_Combined_02	02 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

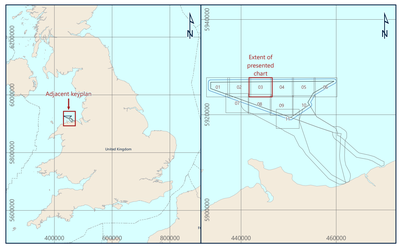
2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

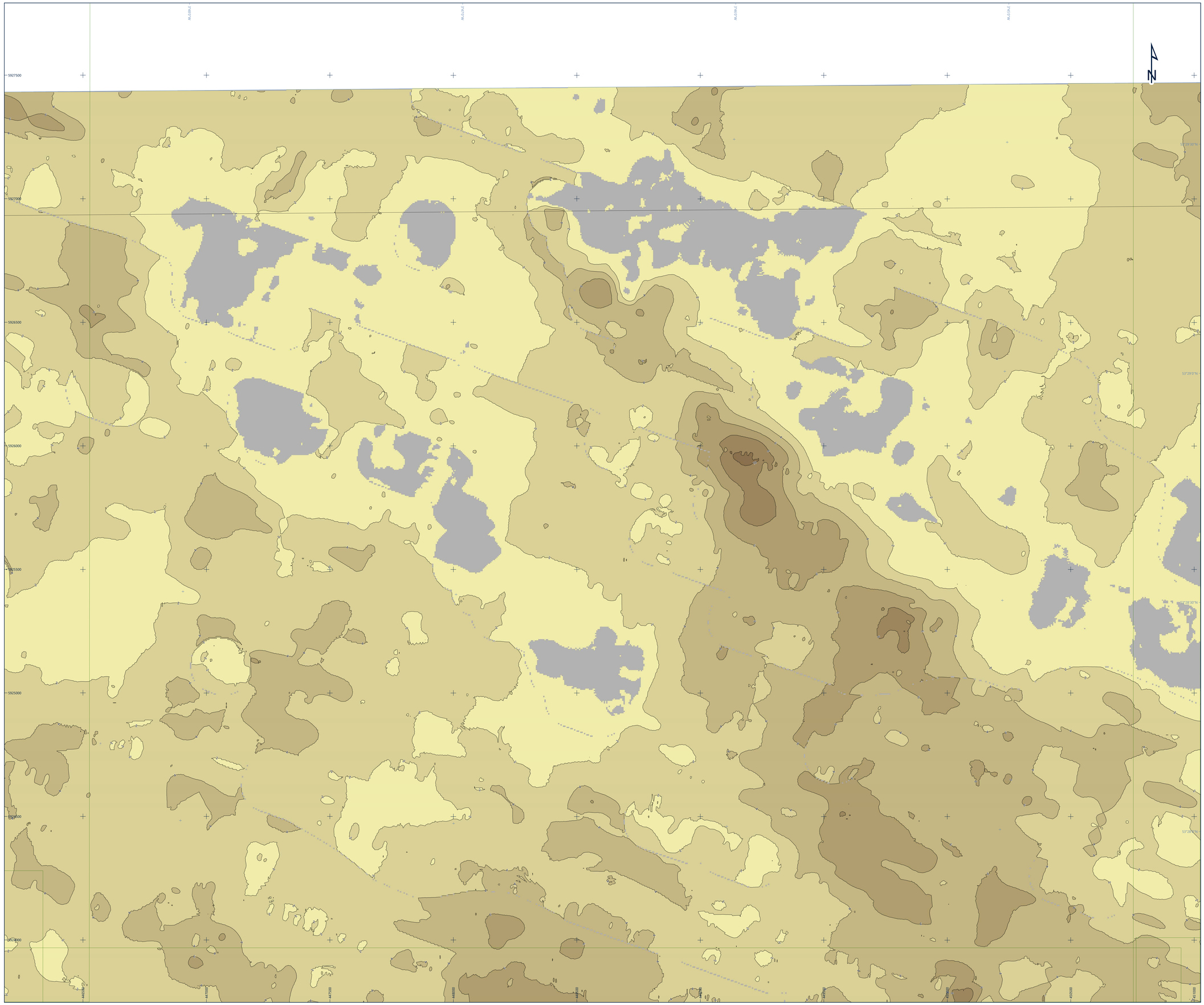
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_Combined_03	03 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

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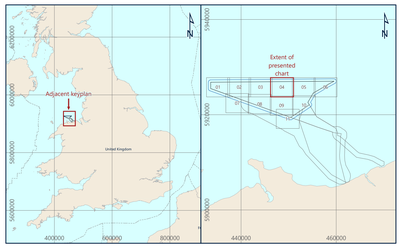
4) Combined interpretation from SBP and UHRS data.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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FUGRO

R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

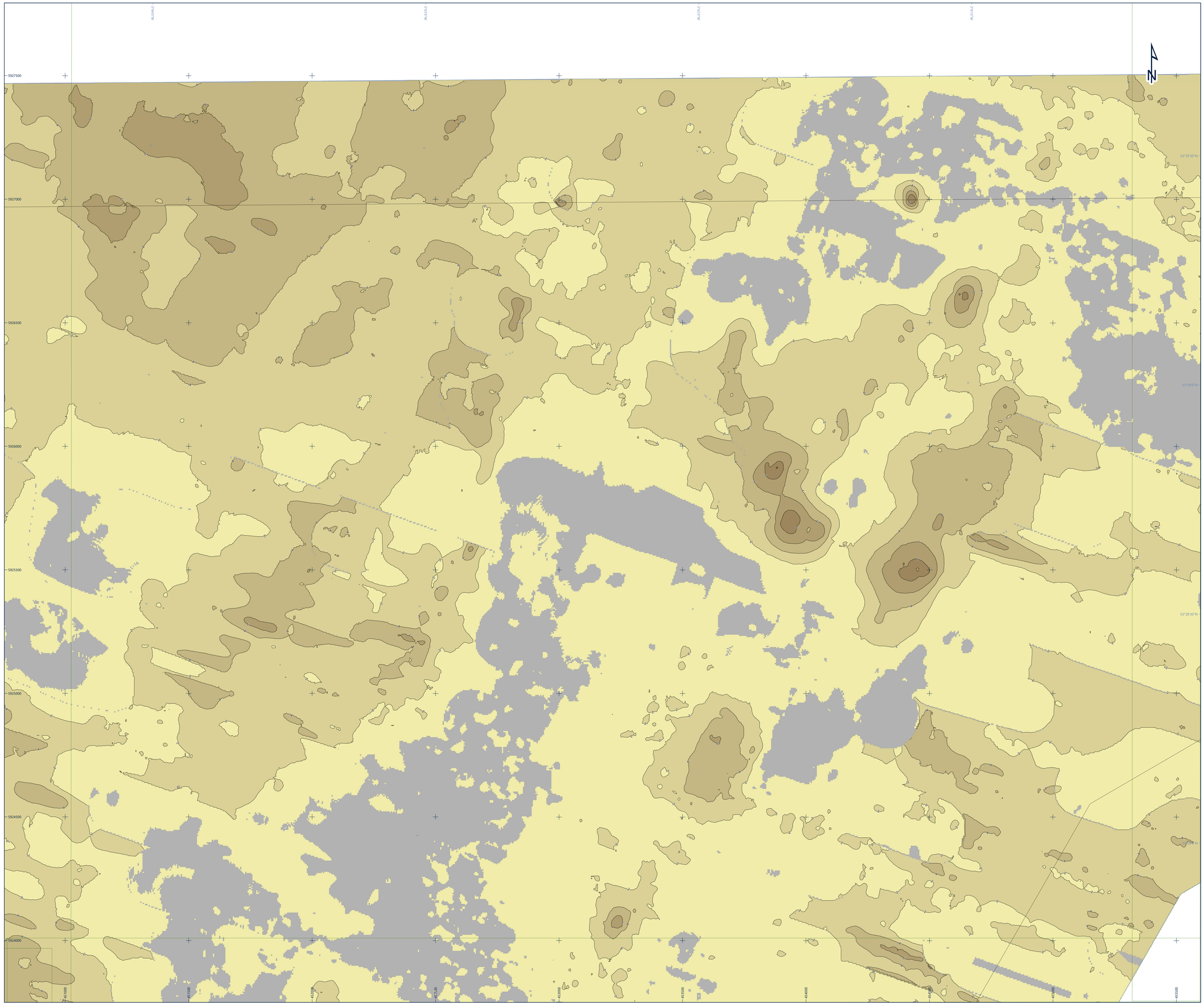
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relssue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_04	04 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

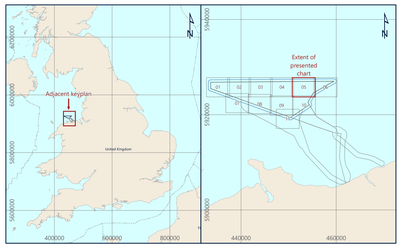
2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

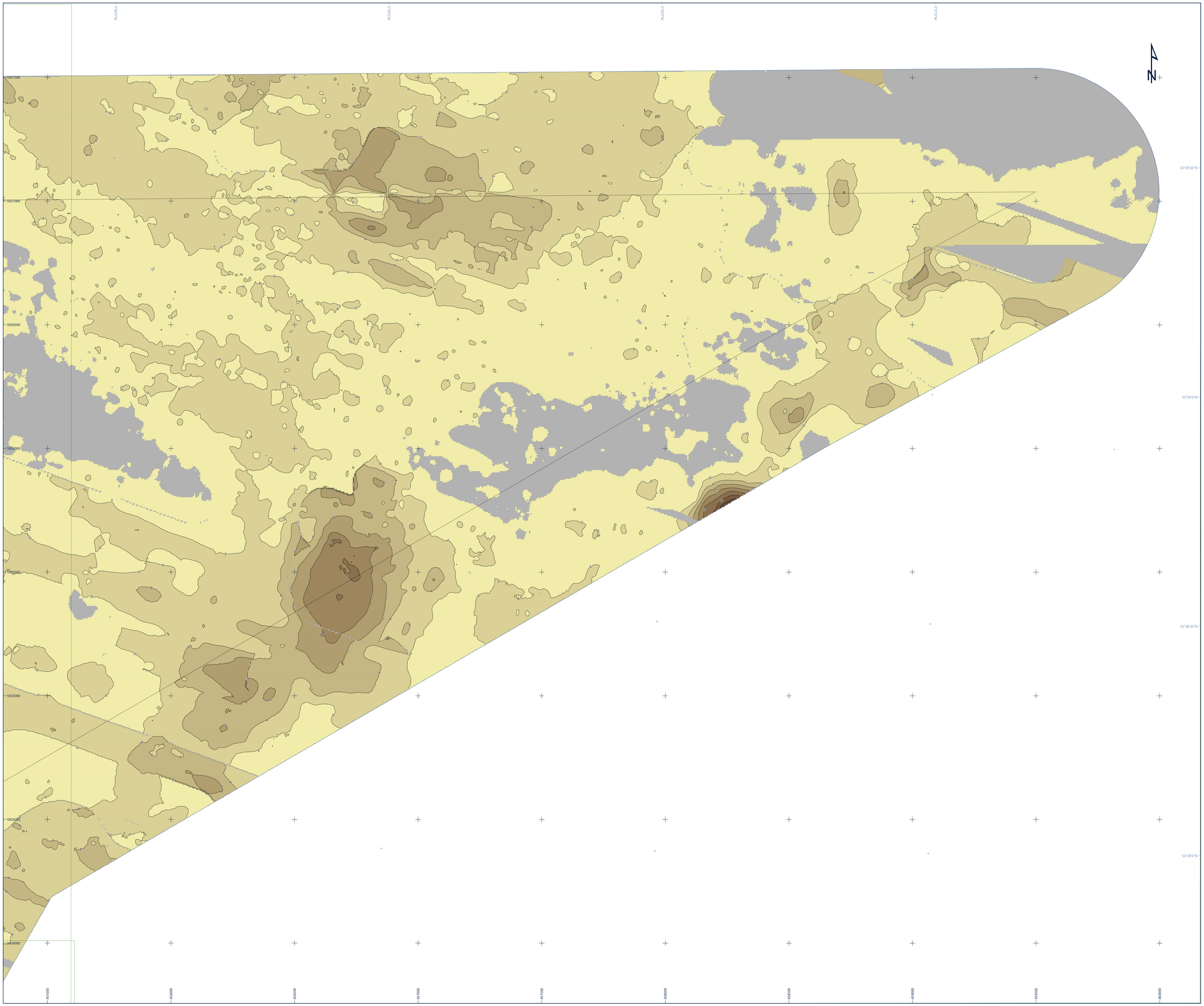
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_05	05 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

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4) Combined interpretation from SBP and UHRS data.

Geodetic Parameters

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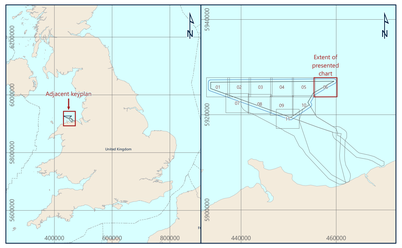
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

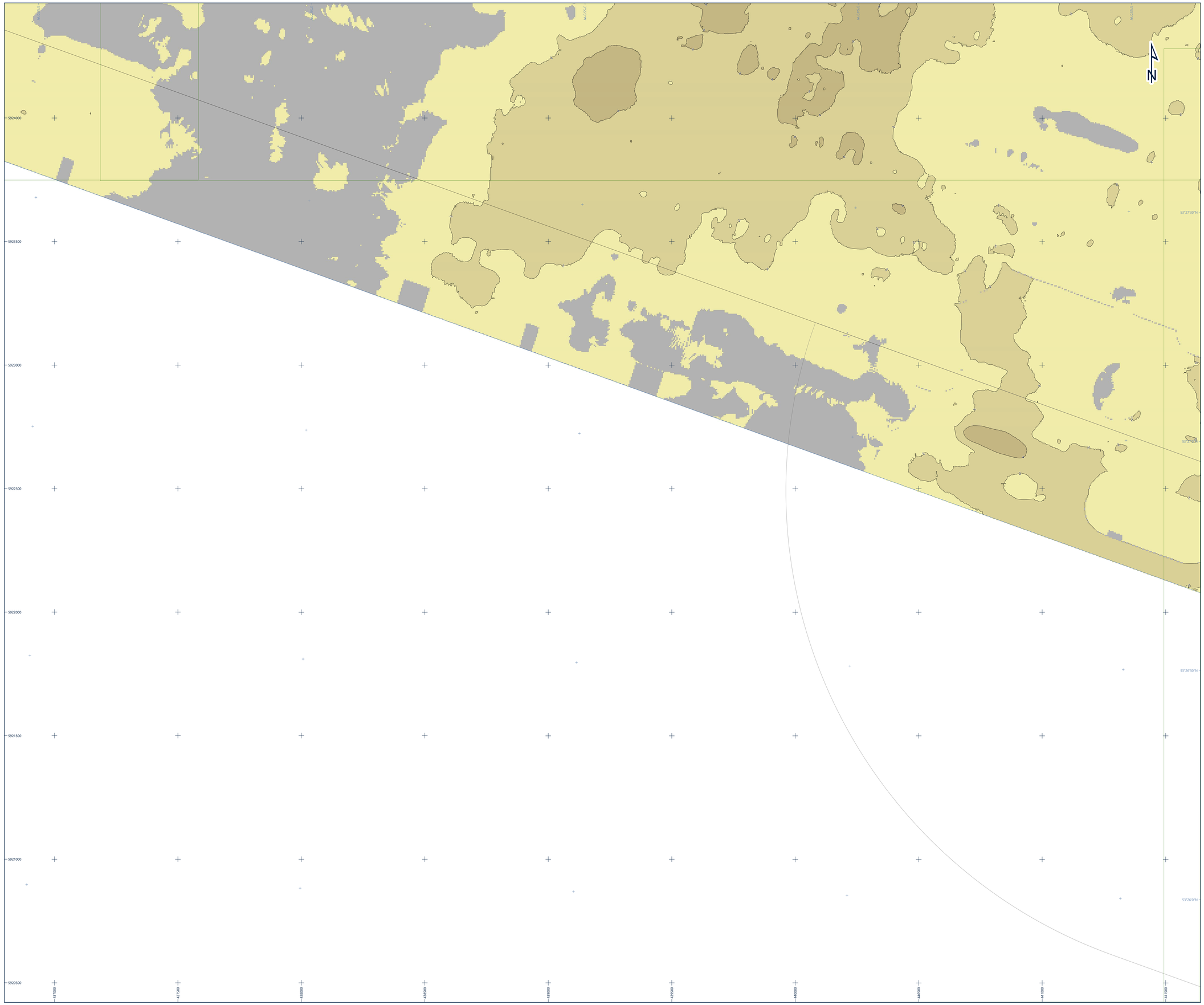
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_06	06 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

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4) Combined interpretation from SBP and UHRS data.

Geodetic Parameters

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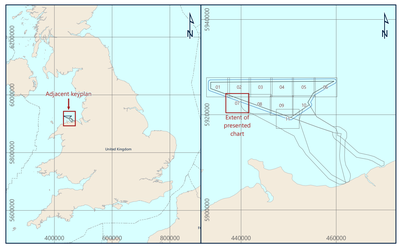
Semi-Major Axis	6,378,137.000 m
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated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



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

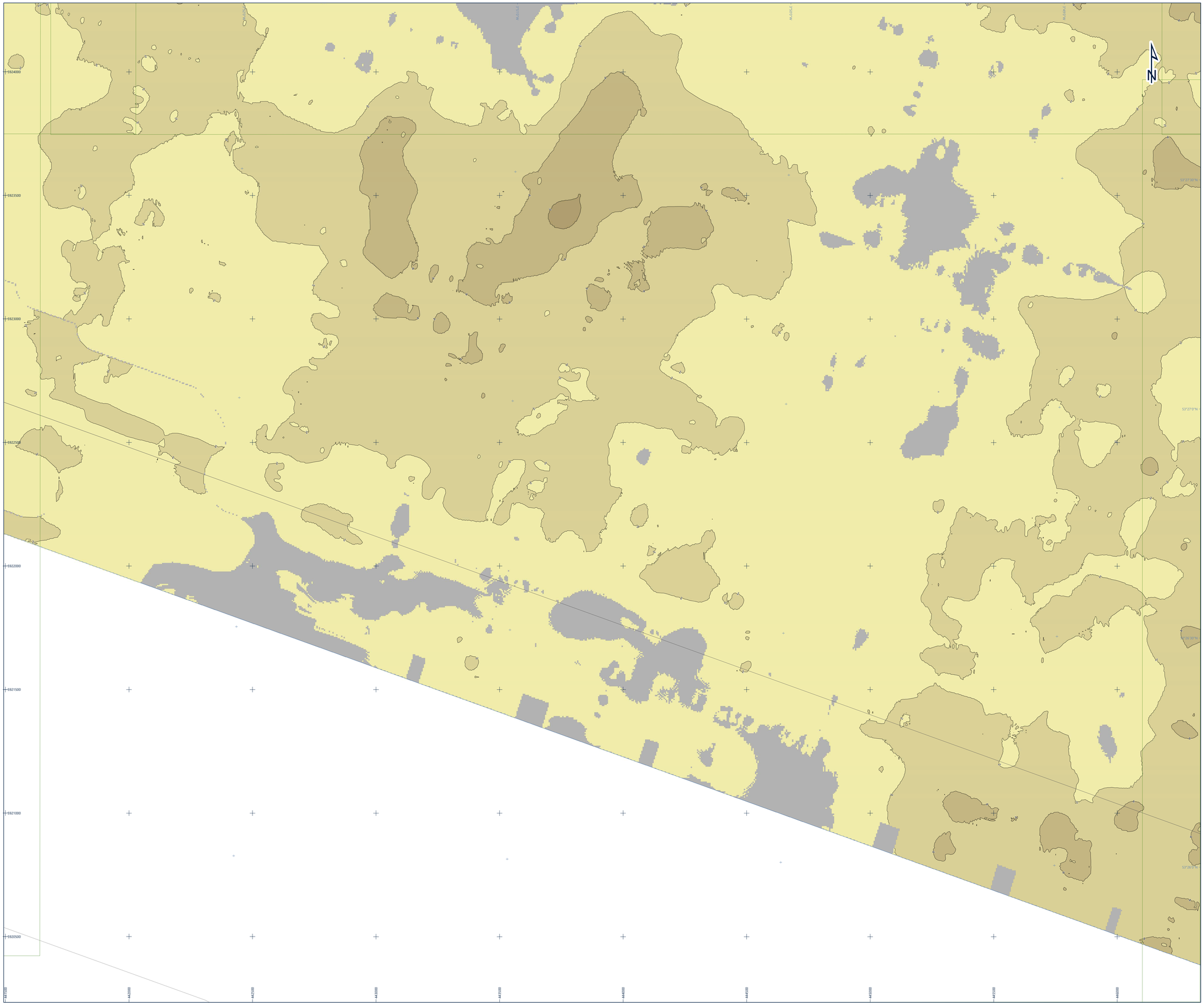
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_Combined_07	07 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

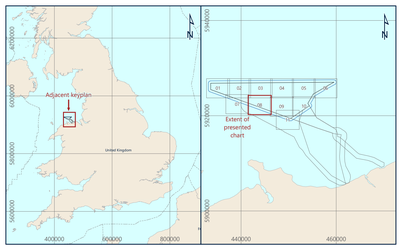
2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

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	00°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
Trigonis Bldg, Windmill Hill Business Park, Whitehill Way, Swindon, SN5 6PB, United Kingdom

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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

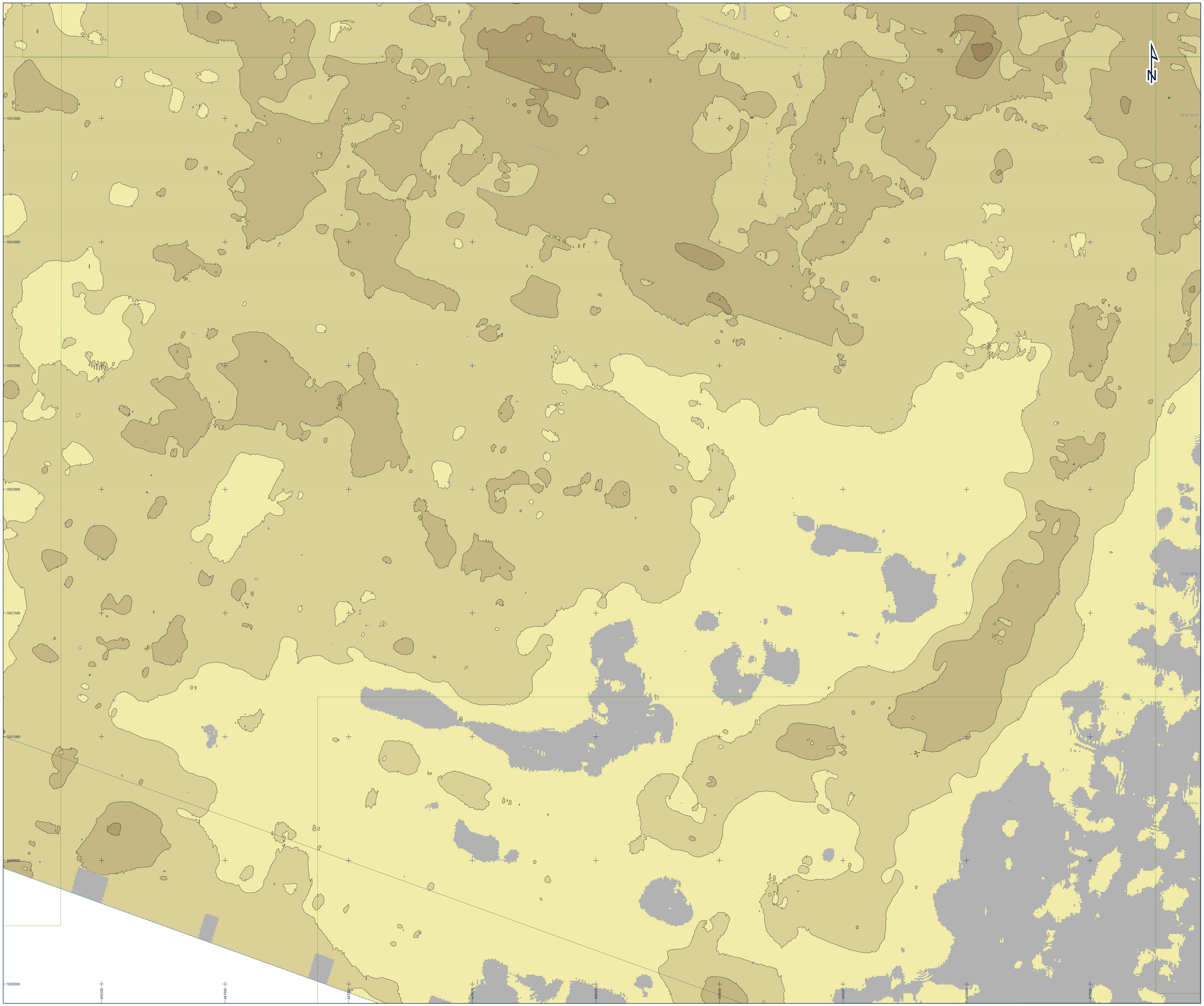
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Relissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_08	08 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

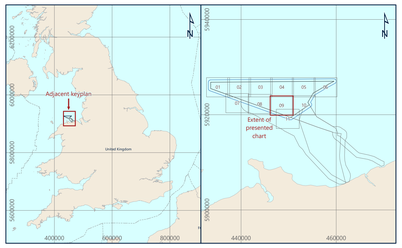
2) Grids have been derived from SBP data in conjunction with BGS sediment charts and client supplied geological background documentation (Innogy, 2019)

3) Isochores have been generated by subtracting the time to the top from the time to the base of each unit and have been depth converted using an ASV of 1600 m/s. All isochores have been gridded with a 5 m cell size.

4) Combined interpretation from SBP and UHRS data.

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	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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	ODT	DS	SB	BPT
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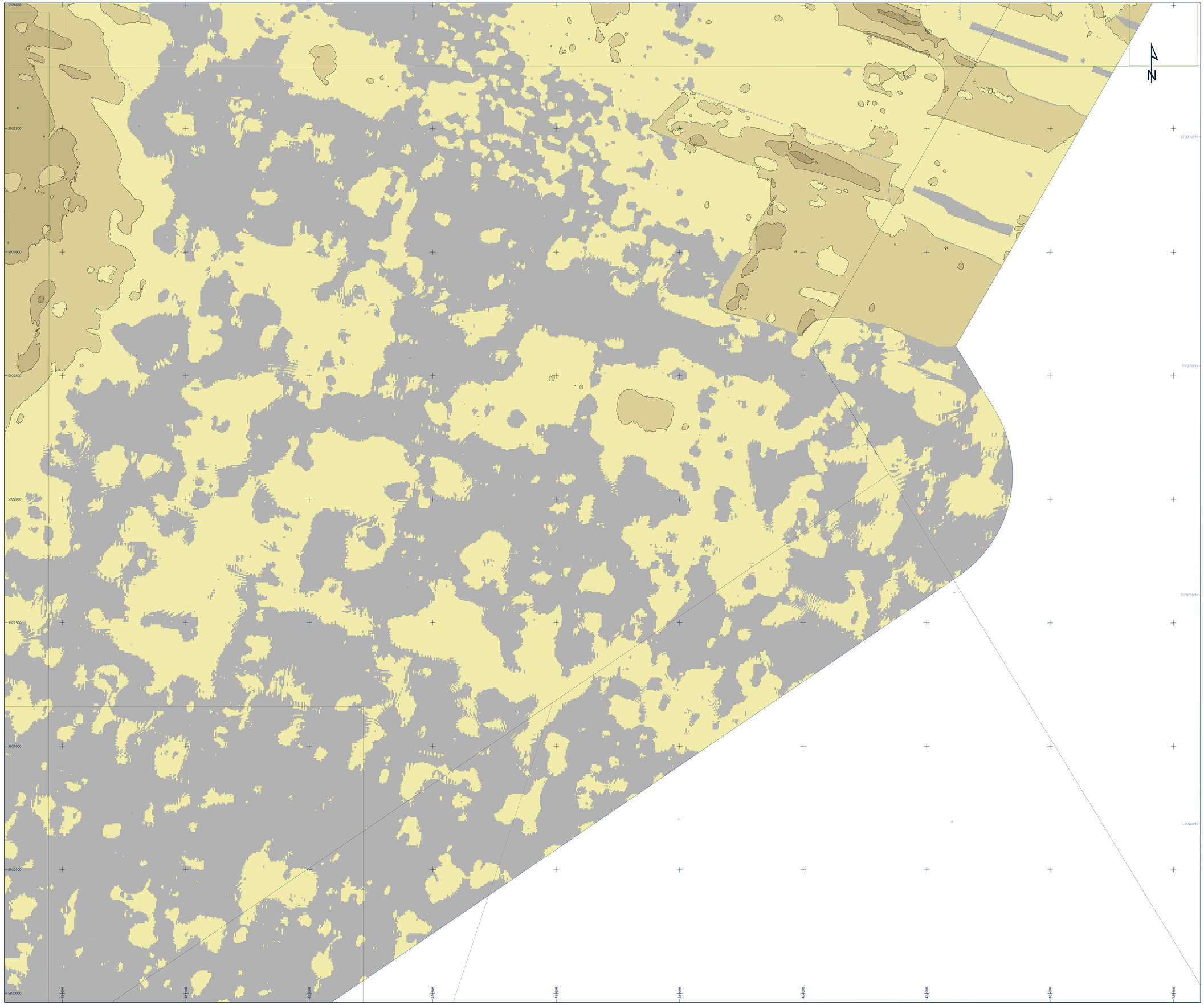
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_09	09 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

1) Sub-bottom profiler interpretation was conducted using Innomar Medium SES-2000 parametric sub-bottom profiler data.

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4) Combined interpretation from SBP and UHRS data.

Geodetic Parameters

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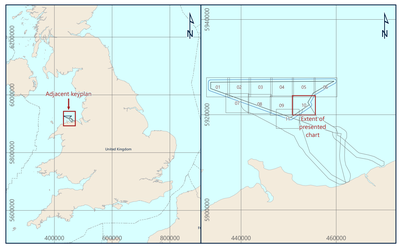
Inverse Flattening	298.257223563
Projection	WGS84 / UTM Zone 30N *(EPSG 32630)*
Central Meridian (CM)	03°00'00" W
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

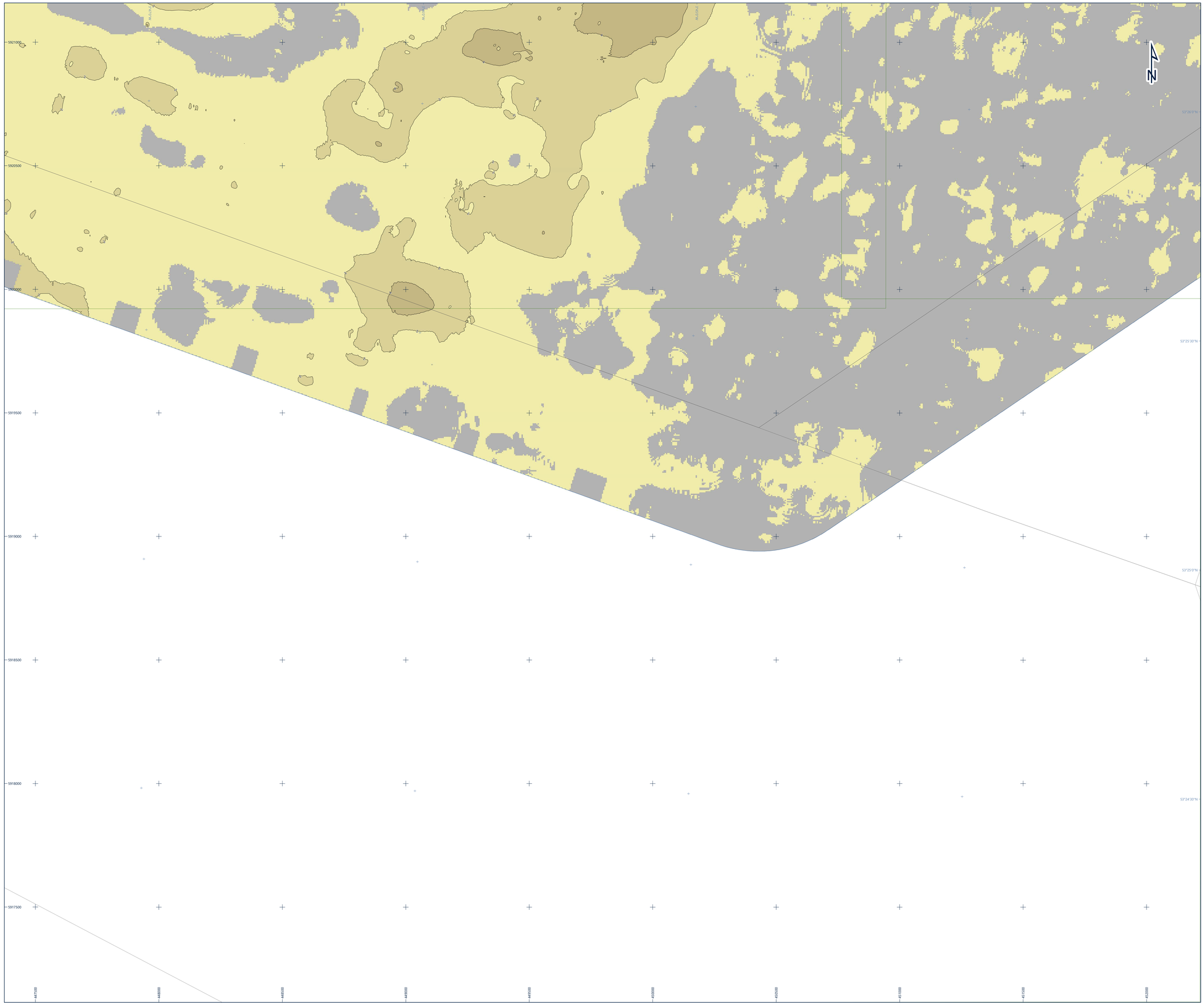
Scale 1 : 5,000 at original A0 page size

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_Combined_10	10 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness [m]

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

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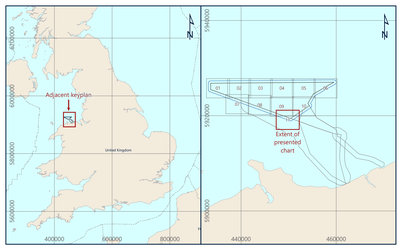
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (SBP AND UHRS) COMBINED

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

Scale 1 : 5,000 at original A0 page size

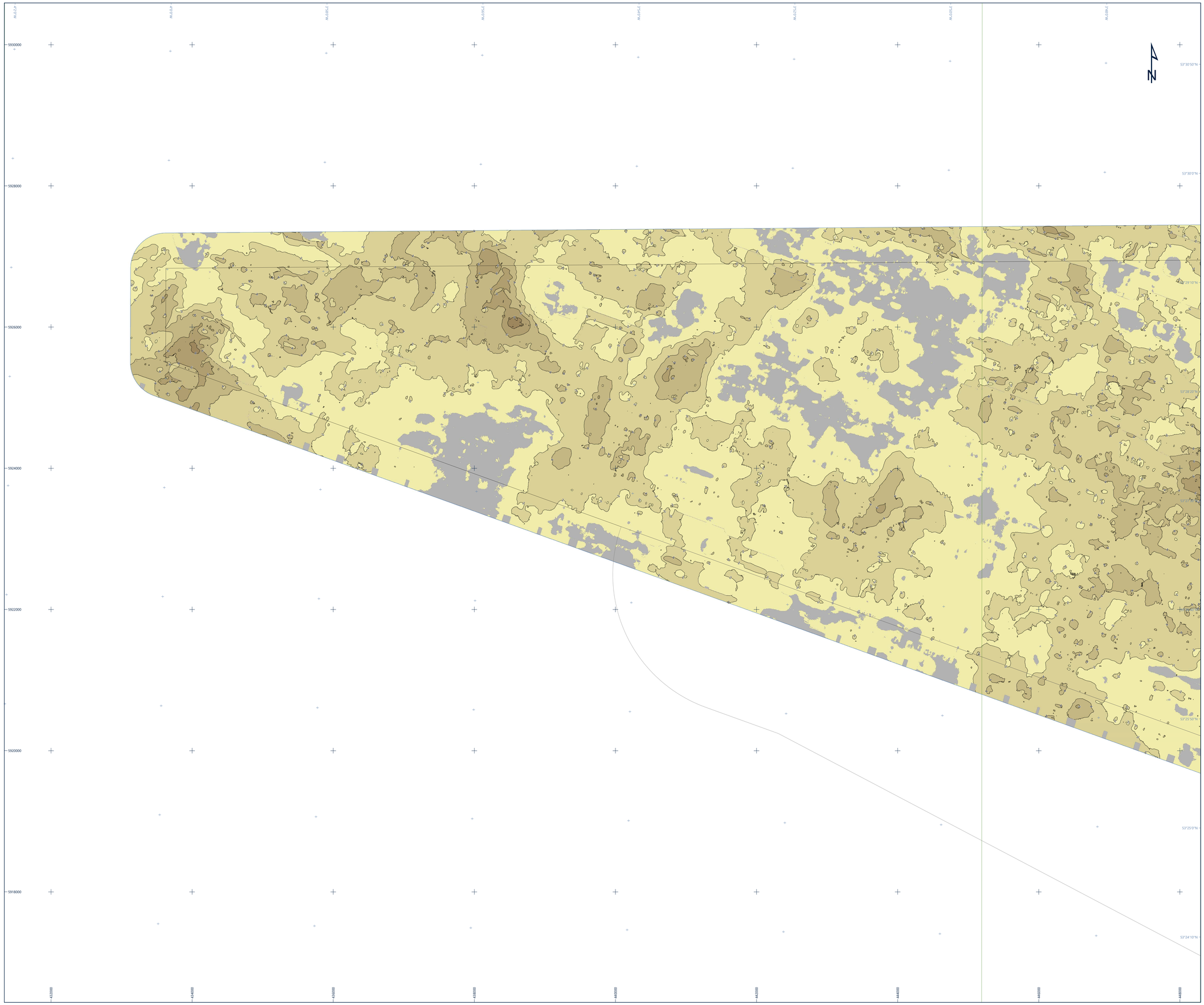
0 50 100 200 300 400 500 metres

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	ODT	DS	SB	BPT
02	01 December 2020	Final Issue - Revision 2	ODT	DS	SB	BPT
03	04 February 2021	Final Reissue - Revision 3	ODT	DS	SB	BPT
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_11	11 of 11



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0

- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

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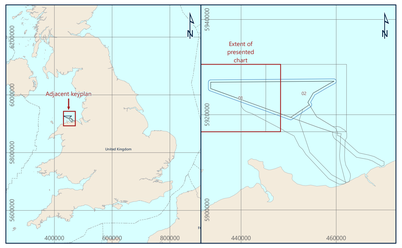
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (COMBINED SBP AND UHRS) OVERVIEW

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

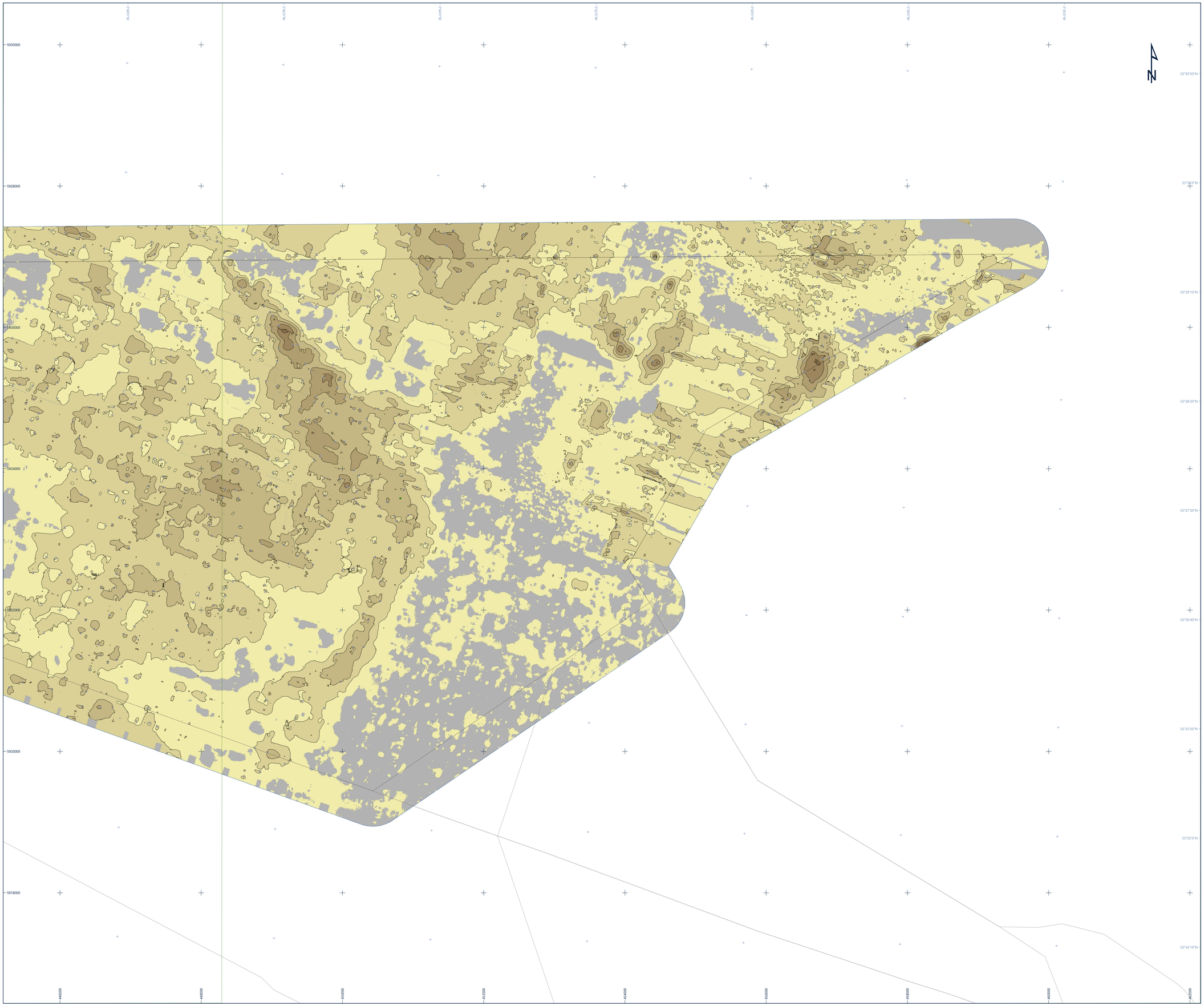
Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres
0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WIS_Lower_SedimentIsochore_Combined_Overview_01	01 of 02



Legend

- UTM Grid
- Geographical Grid
- Chart Extent
- Windfarm Exent
- Array Survey Extent
- Export Cable Route Survey Extent
- MetMast C Borehole

R04 Western Irish Sea Lower Sediment Isochore Thickness (m)

- ≤ 2.0
- 2.1 - 4.0
- 4.1 - 6.0
- 6.1 - 8.0
- 8.1 - 10.0
- 10.1 - 12.0
- 12.1 - 14.0
- > 14.0
- Sediment Isochore at 2 m Interval
- Area of No Interpretation

Notes

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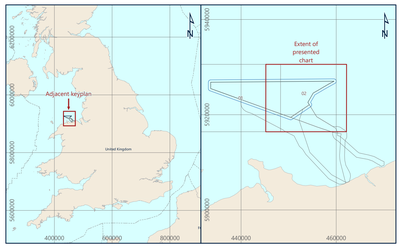
Latitude of Origin	00°00'00" N
False Easting	500,000 mE
False Northing	0 mN
Scale Factor at CM	0.9996
Vertical datum	Lowest Astronomical Tide (LAT) - calculated using the Vertical Offshore Reference Frame (VORF)



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R04 WEST IRISH SEA LOWER SEDIMENT ISOCHORE (COMBINED SBP AND UHRS) OVERVIEW

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

Scale 1 : 17,500 at original A0 page size

0 250 500 1000 1500 2000 2500 metres
0 0.1 0.2 0.4 0.6 0.8 1 Nautical Miles

Issue	Date	Status	Interpreted	Prepared	Checked	Approved
01	01 December 2020	Final Issue - Revision 1	ODT	DS	SB	BPT
02	04 February 2021	Final Relissue - Revision 2	ODT	DS	SB	BPT
-	-	-	-	-	-	-
-	-	-	-	-	-	-

Fugro Project No.	Vessel(s)	Survey Date
200655	Fugro Mercator	10 June to 11 August 2020

File Name	Chart No.
200655_Array_R04_WI5_Lower_SedimentIsochore_Combined_Overview_02	02 of 02

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www.rwe.com

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Swindon Limited
Windmill Hill Business Park
Whitehill Way
Swindon