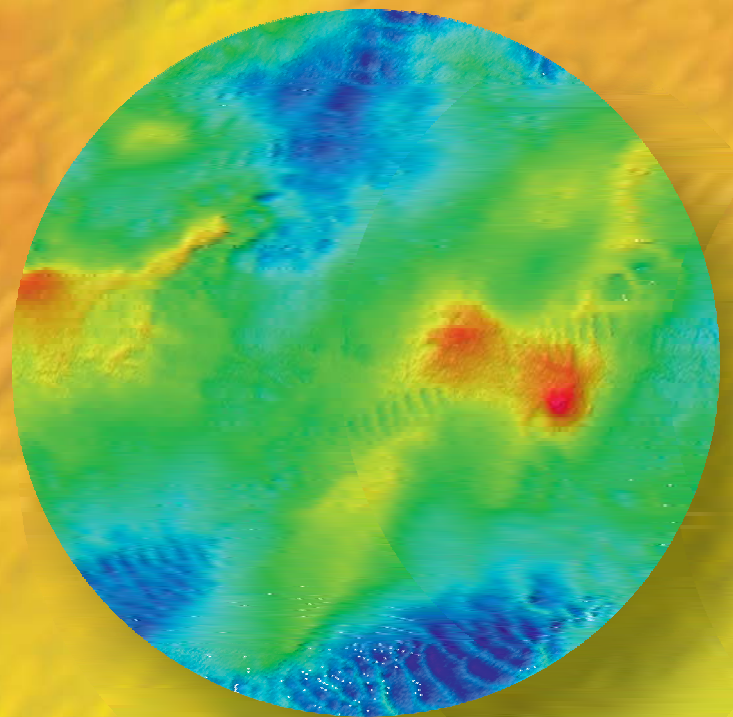
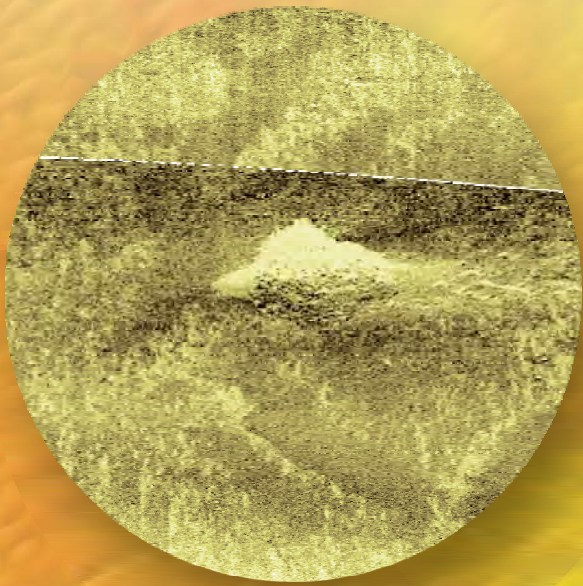




London Gateway Port

Interim Archaeological Geophysical Survey

Draft



LONDON GATEWAY PORT
INTERIM ARCHAEOLOGICAL GEOPHYSICAL SURVEY

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LONDON GATEWAY PORT
INTERIM ARCHAEOLOGICAL GEOPHYSICAL SURVEY

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LONDON GATEWAY PORT

INTERIM ARCHAEOLOGICAL GEOPHYSICAL SURVEY

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Summary

Wessex Archaeology was commissioned by London Gateway Port Ltd. to undertake an archaeological geophysical survey and assessment of three previously dredged sections of the deep water approach to the London Gateway Port site. This was undertaken as an interim survey as part of on-going development associated with the London Gateway Port site. The survey was jointly undertaken by Wessex Archaeology and the Port of London Authority during November 2011 according to a Method Statement produced as a result of recommendations arising from a previous Strike Report. The dataset comprised sidescan sonar, marine magnetometer and multibeam bathymetry data

The survey covered three study areas, Zones 9-11, 26-36 and 105, alongside four point survey areas identified centred on previously identified anomalies, Strike_8022, 7436_7199, 7436_7200 and 79800_3089. This assessment focuses on identifying any anomalies of archaeological potential uncovered during recent dredging and providing more data on previously identified sites, including those previously subject to Clearance Mitigation Statements.

A total of 543 anomalies of potential archaeological interest were found on the seabed across the three study areas. Of these, 44 were identified as being newly identified and of archaeological potential, excluding those anomalies identified which have previously been subject to Clearance Mitigation Statements. A number of these can be grouped together, producing a total of 18 areas of archaeological potential. Generally, these tend to be located on the edges of the dredged channel, with the majority within Zones 26-36, though this is not always the case.

In order to help ascertain the precise nature of these anomalies of archaeological potential, it is recommended that these 44 anomalies be investigated further before future dredging takes place, preferably by diving, or that they be avoided by future dredging until such an investigation can be undertaken. Any known sites previously subject to Clearance Mitigation Statements are not recommended for further investigation at this time, though it is recommended that any future dredging within the vicinity of these sites be undertaken with reference to the recommendations laid out in the Clearance Mitigation Statements for individual sites.

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The assessment was carried out, and the report compiled, by David Howell. Geophysical quality control was carried out by Dr Paul Baggaley, Steve Webster and Toby Gane. Kitty Brandon prepared the illustrations and the project was managed for Wessex Archaeology by Dr Paul Baggaley.

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1. INTRODUCTION

- 1.1.1 Wessex Archaeology (WA) was commissioned by London Gateway Port Ltd. (LGPL) to undertake an archaeological geophysical survey and assessment of three previously dredged sections of the deep water approach to the London Gateway Port site. This is an interim survey as part of on-going development associated with the London Gateway Port site.
- 1.1.2 The current survey was undertaken in response to strikes encountered, and artefacts recovered, during dredging at these sites in 2010 and 2011. The strikes were reported in line with the established Protocol for Archaeological Discoveries (LORDI 2011), and the recovered material assessed by WA in a *Strike and Track-plot Report* (WA November 2011).
- 1.1.3 A method statement for geophysical investigation was produced that was included as Appendix V of the *Strike and Track-plot Report* (WA November 2011).
- 1.1.4 The method statement proposed three separate area surveys within corridors that were approximately 365m wide. The area surveys encompassed all of dredging Zones 9-11, Zones 26-36, and part of Zone 105 (**Figure 1**). Additionally, three individual anomalies previously identified within the Strike Report were chosen for detailed point surveys. Two (WA numbers 72436_7199 and 72436_7200)¹ were situated to the southwest of Zone 105, and one (strike number 8022) lay within Zones 26-36. A fourth individual anomaly (79800_3089), also within Zones 26-36, was identified during the survey and was subjected to a detailed point survey. The locations of these anomalies are as follows (WGS84 UTM31N):

Anomaly/Strike	Easting (m)	Northing (m)
Strike_8022	341738	5707327
79800_3089	348191	5706700
72436_7200	382277	5718485
72436_7199	382829	5718880

Table 1: Point Survey Co-ordinates

2. AIM AND OBJECTIVES

- 2.1.1 The aim of this review was to carry out an archaeological interpretation of new marine geophysical data acquired from the survey areas as described in 1.1.3 and 1.1.4 and illustrated in **Figure 1**. The objectives were as follows:
- To acquire high resolution geophysical data from the survey areas suitable to use for archaeological interpretation.
 - To identify any geophysical anomalies from within the survey areas and assess their archaeological potential, with specific reference to material

¹ Numbering in this format refers to WA project reference followed by WA anomaly number.

recovered during the previous dredging operations and anomalies identified within the Strike Report (WA 2011).

- To identify any new anomalies of possible archaeological potential uncovered during previous dredging, and to comment on the current nature of previously known sites of archaeological interest from within the survey areas.
- To propose future mitigation for material and anomalies of archaeological interest identified within the survey areas.

3. METHODOLOGY

3.1 DATA SOURCES

3.1.1 The data for this report were acquired by WA and the Port of London Authority (PLA) during a geophysical survey in November 2011 (detailed in Section 3.2).

3.1.2 Further background information was obtained from previous work undertaken during the London Gateway Port project, mainly the most recent Strike Report (WA 2011) and UKHO data acquired during previous work.

3.1.3 The geophysical data used for this report were assessed for quality and their suitability for archaeological purposes. Each system was rated “Good” using the following criteria:

Data Quality	Description
Good	Data which are clear and unaffected by weather conditions or sea state. The dataset is suitable for the interpretation of standing and partially buried metal wrecks and their character and associated debris field. These data also provide the highest chance of identifying wooden wrecks and debris.
Average	Data which are affected by weather conditions and sea state to a slight or moderate degree. The dataset is suitable for the identification and partial interpretation of standing and partially buried metal wrecks, and the larger elements of their debris fields. Wooden wrecks may be visible in the data, but their identification as such is likely to be difficult.
Variable	This category contains datasets with the quality of individual lines ranging from good to average to below average. The dataset is suitable for the identification of standing and some partially buried metal wrecks. Detailed interpretation of the wrecks and debris field is likely to be problematic. Wooden wrecks are unlikely to be identified.

Table 2: Criteria for assigning data quality rating

3.1.4 Strong tidal currents experienced during the survey, especially within Zones 9-11 and Zones 26-36, resulted in some snatching on the sidescan sonar records and the sonar fish sometimes flying relatively high within the water column. These factors did not adversely affect the data to a significant degree.

3.1.5 Additionally, the relatively frequent passing of large vessels during survey within a shipping lane resulted in large magnetic anomalies obviously not caused by seabed features. This affect could not be avoided, though was mitigated during data acquisition by noting down the line numbers and times of such occurrences so that

these anomalies could be identified within the data during processing. Subsequently, this also did not detrimentally affect the data to a significant degree.

3.2 GEOPHYSICAL DATA - TECHNICAL SPECIFICATIONS

- 3.2.1 The geophysical data were acquired by WA and the PLA between the 15th and 24th November 2011 on the PLA survey vessel *Verifier*. The dataset consisted of sidescan sonar, multibeam bathymetry and marine magnetometer data.
- 3.2.2 A Klein 3900 system was used to acquire the sidescan sonar data. The system was operated at a range of 50m and an initial frequency of 900kHz. However, after observing that the high frequency setting did not achieve the full range to acquire the required data coverage, the frequency was lowered to 425kHz. Towfish positioning was provided by manual layback, with cable out measured and recorded for individual lines and applied during processing. The data were recorded digitally using the Klein SonarPro software as *.xtf* files.
- 3.2.3 The magnetometer data were acquired using a Geometrics G-882 caesium vapour marine magnetometer, piggy-backed on the sidescan sonar towfish. Towfish positioning was provided by the same manual layback method used for the sidescan sonar. The data were digitally recorded as *.GEOMAG* files using Geometrics MagLog software, and converted to *.txt* files using MagMap.
- 3.2.4 The multibeam bathymetry data were acquired by PLA Hydrographic surveyors using a Reson Seabat 7101 multibeam echo sounder. The data were recorded digitally using HyPack software and provided to WA as both *.hs2* files and as processed Fledermaus *.pfm* files.
- 3.2.5 For this survey all positions were recorded and expressed in WGS 1984, UTM Zone 31°N.

3.3 GEOPHYSICAL DATA - PROCESSING

- 3.3.1 The sidescan sonar data were processed by WA using Coda GeoSurvey software. This allowed the data to be replayed with various gain settings in order to optimise the quality of the images. The data were initially scanned to give an understanding of the geological nature of the area and were then interpreted for any objects of possible anthropogenic origin. This involves creating a database of anomalies within Coda by tagging individual features of possible archaeological potential, recording their positions and dimensions, and acquiring an image of each anomaly for future reference.
- 3.3.2 A mosaic of the sidescan sonar data is produced during this process to assess the quality of the sonar towfish positioning. The survey lines are smoothed, and the navigation corrected either with *.cnv* files provided by the survey company who acquired the data or, in the case of this survey, by individual fixed laybacks as recorded in the survey logs. This allows the position of anomalies to be checked between different survey lines and for the layback values to be further refined if necessary.
- 3.3.3 The form, size, and/or extent of an anomaly is a guide to its potential to be an anthropogenic feature, and therefore of its potential archaeological interest. A single, small, but prominent anomaly may be part of a much more extensive feature that is largely buried. Similarly, a scatter of minor anomalies may define the edges of a buried but intact feature, or it may be all that remains of a feature as a result of past impacts from, for example, dredging or fishing.

- 3.3.4 The magnetometer data were processed by WA using Geometrics MagPick software in order to identify any discrete magnetic contacts which could represent buried metallic debris or structures such as wrecks.
- 3.3.5 The software enables both visualisation of individual lines of data and gridding of data to produce a magnetic anomaly map. The data were first smoothed and de-spiked, then a trend was fitted to the resulting data, and the trend values subtracted from the smoothed values. This was carried out in an attempt to remove both natural variations in the data (such as diurnal variation in magnetic field strength and changes in geology) and any affects produced by passing vessels (as described in section 3.1.5). The processed data were then gridded to produce a map of magnetic anomalies, and individual anomalies tagged and images taken in a similar process to that undertaken for the sidescan sonar data.
- 3.3.6 The multibeam bathymetry data were used to provide a vertical reference for the survey, and were fully analysed to identify any unusual seabed structures that could be shipwrecks or other anthropogenic debris. The data were analysed using Fledermaus software, which enables 3-D visualisation of the acquired data and geo-picking of seabed anomalies.

3.4 GEOPHYSICAL DATA - ANOMALY GROUPING AND DISCRIMINATION

- 3.4.1 The previous section describes the initial interpretation of all available geophysical data sets, which were conducted independently of each other. This inevitably leads to the possibility of any one object being the cause of numerous anomalies in different data sets and apparently overstating the number of archaeological features in the study area.
- 3.4.2 To address this fact, the anomalies were grouped together along with the results of the desk-based study of known archaeological sites. This allows one ID number to be assigned to a single object for which there may be, for example, a UKHO record, a magnetic anomaly, and multiple sidescan sonar anomalies.
- 3.4.3 Once all the geophysical anomalies and desk-based information have been grouped, a discrimination flag is added to the record in order to discriminate against those which are not thought to be of an archaeological concern. These flags are ascribed as follows:

Non-Archaeological	U1	Not of anthropogenic origin
	U2	Known non-archaeological feature
	U3	Non-archaeological hazard
Archaeological	A1	Anthropogenic origin of archaeological interest
	A2	Uncertain origin of possible archaeological interest
	A3	Historic record of possible archaeological interest with no corresponding geophysical anomaly
	O1	Located outside of the horizontal footprint of the proposed scheme

Table 3: Criteria for discriminating relevance of feature to proposed scheme

- 3.4.4 All the sites that have been identified within the study areas are presented in **Appendix I, Appendix II and Appendix III** and are discussed in this report.
- 3.4.5 The grouping and discrimination of information at this stage is based on all available information but is not definitive. It allows for all features of potential archaeological interest to be highlighted, while retaining all the information produced during the

course of the geophysical interpretation and desk-based assessment for further evaluation should more information become available.

- 3.4.6 The final grouped results were loaded into a GIS so they could be correlated with the UKHO records, locations of sites previously subject to Clearance Mitigation Strategies (CMS), information from the recent strike report (WA 2011), and results of previous geophysical surveys in the area.

4. RESULTS

4.1 INTRODUCTION

- 4.1.1 The results of this review, in gazetteer format, are collated and detailed in **Appendix I, Appendix II** and **Appendix III**.

- 4.1.2 As the survey has been separated into three distinct areas, each area shall be discussed independently. As a whole, the highest density of anomalies of archaeological potential have been identified within Zones 26-36, with the lowest density identified within Zone 105.

- 4.1.3 Generally within the Zones, the anomalies with the most archaeological potential tend to be clustered along the edges of the survey areas, outside of the dredged channels, though this is not always the case.

- 4.1.4 The following discussion includes some anomalies located outside of the Study Area boundaries if they are thought to be of archaeological potential. In the case of isolated magnetic anomalies without any corresponding sidescan sonar or multibeam bathymetry anomalies, any over 100nT in size were deemed to be of archaeological potential.

4.2 ZONES 9-11

- 4.2.1 A total of ten main survey lines were run within Zones 9-11 at a spacing of 40m, with three short infill lines run to cover areas around marker buoys within the channel. The track plot is illustrated in **Figure 2**, and the resulting processed geophysical data in **Figure 3**.

- 4.2.2 During initial interpretation of the data, a total of 373 individual geophysical anomalies were identified within Zones 9-11. After further interpretation, anomaly grouping as described in Section 3.3, and removal of any anomalies located outside of the survey corridors or thought to be geological in origin, 182 sites of archaeological potential were identified (including one previously recorded site not identified in the geophysical data, and three sites located outside of the Study Area but thought to be of archaeological potential):

Archaeological Discrimination	Number of Anomalies	Interpretation
A1	13	Anthropogenic origin of archaeological interest
A2	165	Uncertain origin of possible archaeological interest
A3	1	Historic record of possible archaeological interest with no corresponding geophysical anomaly
O1	3	Located outside of the horizontal footprint of the proposed scheme
Total	182	

Table 4: Sites of archaeological potential within Zones 9-11

- 4.2.3 Furthermore, these sites of potential archaeological interest can be classified by probable type, which can further aid in assigning archaeological potential and importance:

Anomaly Classification	Number of Anomalies
Wreck	1
Recorded Wreck / Obstruction	1
Debris	69
Rope / Chain	9
Dark Reflector	60
Seafloor Disturbance	3
Mound	1
Magnetic	38
Total	182

Table 5: Types of anomalies identified within Zones 9-11

- 4.2.4 The anomalies are discussed below and a gazetteer is supplied in **Appendix I**. The locations of all of the anomalies identified within Zones 9-11 are illustrated in **Figure 4**, with the locations of only those anomalies classified as of archaeological potential illustrated in **Figure 5**, shown in relation to anomalies identified during previous surveys and sites previously subject to CMS.
- 4.2.5 A total of 16 individual anomalies have been classified as of potential archaeological interest, 13 located within the study area, and 3 outside, which can be grouped together into 11 areas of archaeological potential.
- 4.2.6 Anomaly **7000** is located outside of the western end of the study area, and comprises a relatively large area of seafloor disturbance (approximately 25.5 x 23.6m) and a number of more distinct, irregular dark reflectors. This has been identified by both multibeam bathymetry and sidescan sonar, though was not visible within the magnetic data. The site has been previously identified during a survey in 2002 (WA 2011), suggesting it is a long-lived feature rather than ephemeral, and has been classified as a debris field or the remains of a non-ferrous structure.
- 4.2.7 Anomaly **7010 (Sheet 1)** has been classified as a wreck, and has previously been subject to CMS, though the precise nature of the feature is uncertain. It has been identified on sidescan sonar and multibeam bathymetry data as a mound measuring approximately 27.0 x 12.5 x 1.6m and is associated with a 41nT magnetic anomaly. A large, shallow scour (approximately 0.5m deep) has been found extending approximately 38m east of the mound.

- 4.2.8 This feature is situated at the location of UKHO record 13360, and PLA record 698. Originally identified by the PLA in 1978, the feature was interpreted as possible aircraft wreckage buried under a mound following retrieval of aluminium and ferrous debris from the site by PLA divers in 2005. Subsequent diving investigation by WA in 2007 identified a mound of cobbles and coal with the remains of a degraded, possibly synthetic, woven fabric, suggesting a very different origin for the feature (WA 2010, WA 2008a).
- 4.2.9 While the precise nature of feature **7010** is still uncertain, it is still classified as a possible wreck here due to the definite presence of a feature of anthropogenic origin. Additionally, the magnetic anomaly associated with the feature indicates the presence of buried ferrous material beneath, or in the vicinity of, the mound, suggesting there may still be aircraft (or other) wreckage present at this site.
- 4.2.10 Anomaly **7021 (Sheet 2)** is an area of seafloor disturbance measuring approximately 24.0m x 17.0m, within which is a single dark reflector approximately 0.4m high. This is a newly identified site and has been associated with a 99nT magnetic anomaly, possibly indicating the presence of a significant amount of buried ferrous debris or the degraded remains of a small ferrous structure.
- 4.2.11 Anomaly **7034 (Sheet 3)** is a distinct dark reflector with a small surrounding area of seafloor disturbance located on the northern edge of the dredged channel, and measuring approximately 5.4 x 3.9 x 0.8m. This is a newly identified site and has been associated with a large, 236nT magnetic anomaly. It possibly represents a small exposed section of a larger area of buried ferrous debris or structure.
- 4.2.12 Anomalies **7041** and **7042**, both newly identified anomalies, can be grouped into one area of archaeological potential, though they are located outside the southern edge of the study area. **7041** is an irregular, linear structure, possibly a linear piece of partially buried debris. **7042** is a curvilinear feature, and possibly a length of rope or chain. Both are located at the edge of the sidescan sonar range, so their full extent is unknown.
- 4.2.13 These two features are located approximately 30m ESE from the recorded location of UKHO record 13164 and PLA record 614. First reported by the PLA in 1985, this site has not been relocated by subsequent surveys. However, it could be related to anomalies **7041** and **7042** which could be periodically buried and exposed.
- 4.2.14 Similarly to **7041** and **7042**, anomalies **7050**, **7051** and **7052** can be grouped together to form one, newly identified, area of archaeological potential (**Sheet 4**). This group of anomalies comprises three straight, linear dark reflectors located in a line, with a curvilinear dark reflector extending approximately at a right angle from one end.
- 4.2.15 All three anomalies have been classified as debris, though they possibly represent the same, partially buried, linear feature with an attached length of partially buried rope or chain. A magnetic anomaly has not been associated with these anomalies, so they possibly represent a partially buried, non-ferrous structure.
- 4.2.16 Anomaly **7060 (Sheet 5)** is a small, dark reflector measuring approximately 1.5 x 0.3 x 0.7m, though has been associated with a large, 103nT magnetic anomaly. This is a newly identified anomaly and is possibly the only visible part of a significant area of buried ferrous debris.

- 4.2.17 Anomaly **7072 (Sheet 6)** is a newly identified scatter of dark reflectors with shadows measuring approximately 29.5 x 10.3m located on the southern edge of the dredged channel. The dark reflectors are associated with a large, 411nT magnetic anomaly, suggesting they represent small, exposed sections of a much larger, partially buried, field of ferrous debris or the degraded remains of a ferrous structure.
- 4.2.18 Anomalies **7132, 7133** and **7138** are all newly identified and can also be grouped into a single area of archaeological potential (**Sheet 7**). **7133** and **7138** are elongate rectangular dark reflectors with shadows, whilst **7132** is a small area of irregular dark reflectors with large shadows. No associated magnetic anomaly has been identified, but these features could represent a field of non-ferrous debris or sections of a broken-up non-ferrous structure.
- 4.2.19 Anomalies **7035** and **7118** are separate features, but both are large, isolated magnetic anomalies of 137nT and 160nT respectively without any identified associated sidescan sonar or multibeam bathymetry anomalies. These potentially represent a significant amount of buried ferrous debris, though without identifiable anomalies on the seabed, their nature can not be determined definitively.
- 4.2.20 In addition to these 16 anomalies of archaeological potential, 165 anomalies of possible archaeological potential, designated A2, have been identified.
- 4.2.21 A total of 57 A2 anomalies have been classified as debris. Of these, 35 were identified as being single, isolated pieces of debris, most of which were not associated with magnetic anomalies and so are interpreted as being non-ferrous in nature. Anomalies **7013, 7019, 7037, 7043, 7099** and **7136** have been associated with magnetic anomalies of 12nT, 37nT, 21nT, 26nT, 14nT and 13nT respectively, and so are interpreted as being ferrous debris.
- 4.2.22 The additional 22 anomalies classified as debris are actually debris fields: Scatters of dark reflectors over an area grouped together to create one anomaly. Again, these are mainly interpreted as being non-ferrous in nature, though anomalies **7102** and **7110** have been associated with magnetic anomalies of 35nT and 29nT respectively, and so are interpreted as representing ferrous debris.
- 4.2.23 These pieces of debris have not been definitively identified as specific features or structures, and could represent either modern or older features. A full list of the anomalies classified as debris is present in **Appendix I**.
- 4.2.24 Eight A2 anomalies, **7001, 7002, 7003, 7025, 7031, 7078, 7095** and **7148**, have been classified as possible lengths of rope or chain. None of these have been associated with a magnetic anomaly. These could be modern lengths of rope or chain lost overboard relatively recently, or could be attached to buried features.
- 4.2.25 A total of 60 A2 anomalies have been classified as dark reflectors (see **Appendix I** for full list). These are isolated dark reflectors of uncertain origin, and could either be pieces of debris, natural features such as boulders, or isolated pieces of disturbed seafloor created during dredging. Generally they have not been associated with any magnetic anomalies, so are interpreted as being non-ferrous in nature. However, anomalies **7111, 7112** and **7117** have been very tentatively associated with magnetic anomalies of 35nT, 35nT and 20nT respectively, though these associations are uncertain due to the possible natural nature of the magnetic anomalies.

- 4.2.26 Three anomalies, **7065**, **7152** and **7154**, have been classified as areas of seafloor disturbance, and could be features created by dredging or represent the presence of debris just beneath the seabed. None have been associated with a magnetic anomaly, so any debris that is present is expected to be non-ferrous in nature.
- 4.2.27 Anomaly **7063** has been classified as a mound measuring 13.5 x 10.0 x 2.0m, and was identified by in the multibeam bathymetry data and associated with a large, 110nT magnetic anomaly. However, it is located within the vicinity of the Sea Reach 7 marker buoy, which could account for the observed magnetic anomaly. The feature itself could represent debris covered with sediment, or be a feature created during dredging.
- 4.2.28 The remaining 38 A2 anomalies are purely magnetic in nature without any identified associated sidescan sonar or multibeam bathymetry anomalies. These range from 7nT to 83nT in amplitude, and possibly represent pieces of buried ferrous debris of varying sizes. The smaller anomalies could also represent natural sudden changes in bathymetry or underlying geology. Without identifiable features on the seabed associated with these magnetic anomalies, their nature can not be determined definitively.
- 4.2.29 In addition to the anomalies outlined above, one previously recorded site, **7139**, was not identified during the geophysical survey and data interpretation. This is the site of previously recorded 'unidentified debris' (UKHO 13284, NMR 831884) first identified in 1992, and found during subsequent dive investigations by the PLA to be an area of modern concrete rubble. Sand ripples identified at the site during the present geophysical survey indicate the site is buried at present, and so would not have been detected by the geophysical equipment. The site is retained here and designated as A3, as it is likely some buried debris still exists at this location though it cannot be confirmed.

4.3 ZONES 26-36

- 4.3.1 Zone 26-36 is the largest of the study areas, and was split into two separate survey areas based on the bend in the original study area. This was to ensure full coverage was achieved, and no coverage was lost while attempting to survey around a bend. 10 main survey lines were run in each area and two point survey areas, Strike_8022 and 79800_3089, were also run comprising 4 short survey lines each. The track plot is illustrated in **Figure 6**, and the resulting processed geophysical data in **Figure 7**, **Figure 8**, and **Figure 9**.
- 4.3.2 During initial interpretation of the data, a total of 712 individual geophysical anomalies were identified within Zones 26-36. After further interpretation, anomaly grouping as described in Section 3.3, and removal of any anomalies located outside of the survey corridors or thought to be geological in origin, 341 sites of archaeological potential were identified (including 10 previously recorded sites not identified in the geophysical data, and 45 anomalies located outside of the Study Area but thought to be of archaeological potential):

Archaeological Discrimination	Number of Anomalies	Interpretation
A1	32	Anthropogenic origin of archaeological interest
A2	254	Uncertain origin of possible archaeological interest
A3	10	Historic record of possible archaeological interest with no corresponding geophysical anomaly
O1	45	Located outside of the horizontal footprint of the proposed scheme
Total	341	

Table 6: Sites of archaeological potential within Zones 26-36

- 4.3.3 As with Zones 9-11, these sites of potential archaeological interest can be classified by probable type, which can further aid in assigning archaeological potential and importance:

Anomaly Classification	Number of Anomalies
Wreck	5
Recorded Wreck / Obstruction	10
Debris	167
Rope / Chain	15
Dark Reflector	53
Seafloor Disturbance	2
Mound	1
Mooring / Buoy	2
Magnetic	86
Total	182

Table 7: Types of anomalies identified within Zones 26-36

- 4.3.4 The anomalies are discussed below and a gazetteer is supplied in **Appendix II**. The locations of all of the anomalies identified within Zones 9-11 are illustrated in **Figure 10**, with the locations of only those anomalies classified as of archaeological potential illustrated in **Figure 11**, shown in relation to anomalies identified during previous surveys and sites previously subject to CMS.
- 4.3.5 A total of 77 individual anomalies have been classified as of potential archaeological interest, 32 located within the study area and 45 outside, which can be grouped together into 24 areas of archaeological potential. Most of these anomalies are located along the edges of the dredged channel, with only a few located within the channel itself.
- 4.3.6 Anomaly **7209** is a large, complex, newly identified feature of unknown origin (**Sheet 8**). It is dominated by a large scour cut out of the southern edge of the dredged channel measuring approximately 130 x 26 x -4m, though sand ripples within the base of the feature suggest it was originally deeper and is now partially buried. Along the northern edge of this feature is an area of irregular, curvilinear dark reflectors, and the whole feature is associated with a 50nT magnetic anomaly.
- 4.3.7 This feature has not been previously recorded by the UKHO, NMR or PLA. It is possible that the large scour was created during dredging, though it cuts into the edge of the dredged channel and appears different to any other section of the channel edge observed from within the study areas. However, the area of curvilinear dark reflectors is possibly a debris field, with the associated magnetic

anomaly suggesting it is partially ferrous in nature, and the partial filling of the base of the scour indicates there could be more debris buried within it.

- 4.3.8 Anomaly **7245** is located approximately 30m SSE of the recorded location of the “Iron Bar Wreck” (UKHO 12917, NMR 800540, PLA 686), and has previously been identified and subject to CMS. It has been grouped with anomalies **7238**, **7239**, **7240**, **7241**, **7242**, **7253**, **7244**, **7246** and **7247** to form an area of archaeological potential representing the scattered remains of this wreck (**Sheet 9**). Although anomalies **7238**, **7239**, **7245** and **7246** are located outside of the study area, the remainder of these anomalies lie within it and right on the northern edge of the dredged channel.
- 4.3.9 The anomaly interpreted as being the main remaining structure of this wreck, **7245**, comprises a small mound measuring approximately 17.0 x 10.6 x 1.0m observed in the multibeam bathymetry data, and found by sidescan sonar data to represent a pile of debris. The remaining surrounding anomalies are scattered irregular dark and bright reflectors interpreted as individual pieces of debris or small debris fields, some of which could be ferrous in nature as the site is associated with a small but distinct 13nT magnetic anomaly.
- 4.3.10 The “Iron Bar Wreck” is currently unidentified, and little of its date, construction or history is known. Originally identified in 1978, the vessel was salvaged by the PLA in the same year. Diving investigations carried out by the PLA in 2005 identified iron bars and sections of oak timber with oak tree nails, with similar material identified during further diving investigation undertaken by WA in 2005. These artefacts suggest the original vessel was relatively old, wooden, and carrying a cargo of iron bars (WA 2010, WA 2008b).
- 4.3.11 Although the site has been previously salvaged, a report from the salvage office in 1978 stated “it could not be guaranteed that all the remains of this old vessel had been cleared” (WA 2008b). Given the continued identification of debris on the seabed in this location by both geophysical surveys and diving investigations it seems that this is very much the case, and the potential remains for a large amount of scattered, partially buried, archaeological material to be present at this site.
- 4.3.12 Anomalies **7253**, **7254**, **7255**, **7256**, **7257**, **7258** and **7259** are newly identified anomalies and can be grouped together as an area of archaeological potential (**Sheet 10**). Within this area, **7257** and **7253**, located outside of the study area, are the main anomalies, with the remainder scattered pieces of possible associated debris.
- 4.3.13 **7257** is a collection of curvilinear dark reflectors, possibly a series of ropes or chains. **7253** is a strong, straight, linear dark reflector and is associated with a 17nT magnetic anomaly suggesting it is a structure that is at least partially ferrous in nature. The surrounding pieces of debris suggest more objects could be buried in the immediate vicinity.
- 4.3.14 Located on the northern edge of the dredged channel, these anomalies are not known to have been previously recorded by the UKHO, NMR or PLA. They are situated approximately halfway between the “Iron Bar Wreck”, **7245**, and the HMS *London* (Site 2), **7296**, and could be debris from the time either of these vessels were wrecked, or from the salvage operations of the “Iron Bar Wreck”. Alternatively, they could represent a different, previously unknown, site.

- 4.3.15 Anomalies **7262**, **7263** and **7264** are newly identified anomalies and can be grouped together as a single area of archaeological potential (**Sheet 11**). **7263** is interpreted as being a small debris field comprising a central, curvilinear dark reflector surrounded by smaller, irregular dark reflectors. **7262** and **7264** are nearby dark reflectors with shadows, and are possibly related. All three are associated with a distinct, 93nT magnetic anomaly, suggesting they area ferrous in nature and possibly represent the visible portion of a larger area of scattered ferrous debris.
- 4.3.16 Anomaly **7296** corresponds with the location of the known wreck of the HMS *London* (Site 2), a site previously subject to CMS, and can be grouped with anomalies **7260**, **7289**, **7290**, **7291**, **7294**, **7295**, **7296**, **7297**, **7298**, **7299** and **7300** as and area of archaeological potential, though only **7294** is located within the study area (**Sheet 12**).
- 4.3.17 Located on the northern edge of the dredged channel, approximately 300m NW of the Sea Reach 4 marker buoy, the site (UKHO 12905, NMR 908041, PLA 706) is actually the location of the wrecks of two separate vessel, both of which were identified on the geophysical data. The wrecks are orientated on a similar NE-SW alignment. Two shallow scours have been identified extending to the ESE from both structures, and a large area of debris, **7295**, has been identified to the WNW. The remaining surrounding anomalies are interpreted as being scattered pieces of debris probably associated with the wrecks.
- 4.3.18 The larger wreck at the site is believed to be a large fragment of the hull of a substantial wooden framed vessel, probably the lower hull of the hold. It appears to be a large, coherent structure in the geophysical data, though appears broken up in places, and measure approximately 21.8 x 8.4 x 1.1m. A small 24nT magnetic anomaly indicates a small amount of ferrous material associated with the wreck.
- 4.3.19 The hull fragment and artefacts associated with it are believed to be from the *London*, and is one of two parts of the *London* designated wreck site. Formerly known as 'the King' it is now known as Site 2, with Site 1 located approximately 400m to the east outside of the area covered by the geophysics.
- 4.3.20 Artefacts recovered from the site, including an intact shaft and globe bottle of 1650-1665, are consistent with the ship's date of loss. A considerable quantity of well preserved artefacts, including a very large anchor, a mound of rope, probable firewood, galley bricks, a possible wooden box and a probable pewter spoon, have also been observed lying on top of the hull fragment. Framing timbers have been sampled for dendrochronology dating, and, although the results are not yet available, it is understood that they are consistent with the hull fragment being part of the *London*.
- 4.3.21 It is recorded that a bronze cannon, a French demi-culverin now on display in the Royal Armouries, was salvaged from the site in 1962 (WA 2008c, WA 2010). In addition, a further bronze cannon located on or in the vicinity of the site in 2005 is no longer present and is thought to have been salvaged in 2007 prior to designation of the site in 2008. It is possible that all five of the guns salvaged in 2007 came from this site or its vicinity (WA 2008c). Many more guns from the *London's* important all bronze armament are unaccounted for and are likely to be buried in the seabed in or in the vicinity of Sites 1 and 2.
- 4.3.22 The second wreck at the site is smaller in size, measuring approximately 17.2 x 4.4m and with no measurable height, and is currently unidentified. The structure appears mostly buried, so the measurements are to be treated as a minimum, and

comparison with previous geophysical data indicates that a prominent scour once present to the ESE of the vessel is mostly infilled at present.

- 4.3.23 The structure of this vessel is different in character to the fragment of the hull of the *London*. It suggests that it may have been considerably smaller and possibly a coastal or home trade vessel. The loss of this second vessel has been dated to after 1832 on the basis of the chemical composition of copper alloy hull fastenings recovered from it. It is unidentified and there is no indication that its presence is anything other than co-incidental.
- 4.3.24 The *London* was a second rate warship built for the Commonwealth Navy in 1656. It formed part of the squadron that transported Charles II and his court back to England and subsequently became part of his Restoration navy. It was lost in 1665 as a result of the accidental mass detonation of the gunpowder magazine whilst sailing up the Thames from the Medway. The loss of the ship resulted in the loss of 300 lives. It was a major disaster for the navy and was recorded by Samuel Pepys in his famous diary.
- 4.3.25 One remarkable feature of this site is that the scattered remains of two or three people have been found within the area thought to contain *London* wreck material. Two of these were women. Women would not have been part of the crew of a 17th century English warship. Whilst the possibility that the human remains originate from the later wreck or are from bodies that drifted in from elsewhere cannot be ruled out, it currently seems likely that they were wives or girlfriends of the crew, who were often allowed to stay onboard a warship if it was sailing to an anchorage to muster as part of a fleet. Samuel Pepys mentions that one of the survivors of the explosion that sank the *London* was a woman.
- 4.3.26 This site is thought to have been subject to salvage and clearance operations during the 20th century, and the *London* is also known to have been salvaged historically (WA 2008c). The extent to which the archaeological remains currently present have been affected by this is uncertain, but some impact is likely to have occurred. Despite the damage that has probably occurred, the designated wreck of the *London* is arguably one of the most important historic wreck sites in UK territorial waters.
- 4.3.27 Anomaly **7283 (Sheet 13)** is a newly identified anomaly located within the dredged channel, and is a short, linear dark reflector, interpreted as debris, measuring approximately 1.7 x 0.1 x 0.1m and located within a depression or scour. It is associated with a distinct 91nT magnetic anomaly, which suggests it is a small exposed part of a larger scatter of buried ferrous debris. Numerous poorly defined, straight, linear dark reflectors area also visible in the vicinity, though it is unclear if these represent shallow scars or buried debris.
- 4.3.28 Anomaly **7274 (Sheet 14)** is another newly identified anomaly located on the southern edge of the dredged channel, and comprises a scatter of dark reflectors with shadows measuring approximately 30.1 x 5.4m. It is associated with a distinct 41nT magnetic anomaly, and is possibly a field of ferrous debris or the partially buried remains of a degraded structure.
- 4.3.29 Located to the north of the dredged channel, outside of the study area, anomaly **7321** is interpreted as a debris field measuring approximately 29.2m x 7.9m and comprises a scatter of irregular dark reflectors, including a number of long, curvilinear dark reflectors. This feature has not been associated with a magnetic anomaly, suggesting it is non-ferrous in nature. It is located approximately 110m SE

of the *London* (Site 1) (UKHO 13169, NMR 908042) and could possibly be debris related to this site, though this specific is not known to have been identified previously.

- 4.3.30 Anomalies **7358**, **7359** and **7360** are all newly identified anomalies and can be grouped together as one site of archaeological potential located along the northern edge of the study area (**Sheet 15**). **7360** is a curvilinear dark reflector, possibly a length of rope or chain. **7358** and **7359** are isolated dark reflectors with shadows located within small depressions. All are associated with a large, 110nT magnetic anomaly, suggesting they could be small exposed sections of a larger area of buried ferrous debris or a structure.
- 4.3.31 Anomaly **7407** is a newly identified feature located a relatively long distance outside of the study area, approximately 330m NW of the SE Leigh marker buoy, and was only encountered as the survey vessel manoeuvred to clear the shipping lane during survey. It is characterised by a scatter of dark reflectors, interpreted as debris, within an area of disturbed seabed measuring approximately 23.8m x 17.0m. It is associated with a large, 263nT magnetic anomaly, and is possibly a large area of partially buried ferrous debris or the remains of a degraded ferrous structure.
- 4.3.32 Anomaly **7415** correlates with the recorded location of the “Pottery Wreck” (UKHO 58249, PLA 793) (**Sheet 16**), and is a site previously subject to CMS located just outside of the study area. The anomaly comprises an area of seafloor disturbance and irregular dark reflectors measuring approximately 21.3m x 19.m, with one small dark reflector reaching a maximum of 0.4m in height. The feature is not recognisable as a vessel, and appears to represent partially buried degraded remains rather than a coherent structure.
- 4.3.33 The site was first identified by the PLA in 1999 and has been dived and surveyed numerous times since, mainly by WA and PLA (WA 2008d, WA 2010). Numerous artefacts have been recovered, including both structural timbers and personal artefacts, though nothing to indicate the identity of the vessel, so it remains unidentified at this point. Evidence suggest it is a small, late 19th – early 20th century, mainly wooden, clinker-built vessel, and was possibly a Thames Bawley (fishing vessel). It is probable that artefacts and other debris are still located at the site.
- 4.3.34 Anomalies **7430**, **7431**, **7432**, **7433**, **7434**, **7435**, **7436**, **7437**, **7438** and **7439** are all newly identified anomalies and can be grouped together as one large area of archaeological potential (**Sheet 17**). This is a large, scattered area of possible debris located along the northern edge of the dredged channel, with anomalies **7430**, **7432**, **7433**, **7435** and **7436** located inside the study area, and the rest located outside.
- 4.3.35 These are a scattered group of irregular dark reflectors and small possible debris fields. Anomalies **7433**, **7435** and **7436**, and possibly **7434**, are associated with a large, 179nT magnetic anomaly, and form the approximate centre of the group. The whole area possibly represents a wide spread of both ferrous and non-ferrous debris, and the size of the magnetic anomaly indicates further pieces of buried ferrous debris are present within the vicinity. The site as a whole is similar in nature to the remains of the “Iron Bar Wreck”, and possibly represents the degraded remains of a vessel or other structure.
- 4.3.36 Anomaly **7452** is a newly identified feature and can be grouped with surrounding anomalies **7449**, **7450**, **7451**, **7453**, **7454**, **7455** and **7456** to create an area of

- archaeological potential (**Sheet 18**). The main, central anomaly, **7452**, comprises two long, straight, linear dark reflectors joined at right angles and possibly part of the same partially buried structure. The surrounding anomalies comprise small areas of possible debris and individual pieces of debris, and the site is associated with a complex 59nT magnetic anomaly, suggesting the presence of ferrous material.
- 4.3.37 The main structure appears very similar to one observed approximately 800m SE, on the southern edge of the dredged channel, which has previously been recorded as part of a “submarine boom” (**7473**), the anti-submarine defences from WWII which stretched across the Thames from Shoeburyness, Essex, to Minster Beach on the Isle of Grain (WA 2008e, WA 2008f). Due to this similarity, anomaly **7452** and the surrounding features are also classified as a possible submarine boom and associated debris.
- 4.3.38 The anomaly is a prominent feature, yet is not known to have been previously recorded by UKHO or PLA. Comparison of the recent geophysical data with data collect in 2002, indicate the site was previously completely covered by sand and is likely to have only been uncovered recently.
- 4.3.39 Anomalies **7458**, **7459** and **7460** are newly identified anomalies, and can be grouped together as one area of archaeological potential located at the northern edge of the dredged channel (**Sheet 19**). The area is approximately centred around **7458**, which is a large, 135nT magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. **7459**, located outside the study area, is an area of irregular seabed identified by multibeam bathymetry but poorly resolved by sidescan sonar, and is possibly associated with the large magnetic anomaly. **7460** comprises a curvilinear dark reflector, possibly a length of rope or chain, and an individual piece of possibly debris, both located within a small depression or scour. The close proximity of these anomalies suggests they may be related, and are possibly a small visible part of a larger scatter of buried ferrous debris.
- 4.3.40 Anomaly **7462**, a newly identified anomaly located on the northern edge of the dredged channel, is an intermittent curvilinear dark reflector measuring approximately 16.7m x 0.3m interpreted as a length of rope or chain (**Sheet 20**). It is associated with a large 123nT magnetic anomaly, suggesting there could be a significant amount of buried ferrous debris within the vicinity.
- 4.3.41 Anomaly **7465** (**Sheet 21**) comprises two newly identified, adjacent, very strong dark reflectors with prominent shadows located within a distinct depression. The two reflectors are similar in size, measuring approximately 2.0 x 1.0 x 0.7m, and the overall depression measures approximately 27.0 x 17.5 x -1.0m. The anomalies have not been associated with a magnetic anomaly.
- 4.3.42 Despite being very prominent features, these anomalies are not known to have been previously recorded by UKHO or PLA. Their strong signal and the surround depression, probably a scour, indicate they are significant pieces of debris, though the lack of a magnetic anomaly in the vicinity suggests they are non-ferrous in nature.
- 4.3.43 The anomaly is located in an area from which numerous pieces of possible submarine boom have been identified, and is located approximately halfway between two large pieces of possible submarine boom located at either side of the dredged channel (**7452** and **7473**). It is possible that these features are also related to the WWII submarine boom and are possibly concrete structures, though further investigation would be required to confirm this.

- 4.3.44 Anomaly **7473** correlates with the position of a recorded “submarine boom” (UKHO 58374, PLA 794), a site previously subject to CMS, and can be grouped with anomaly **7474** to create an area of archaeological potential (**Sheet 22**). **7473** comprises a long, straight dark reflector with curvilinear reflectors extending from either end, and is interpreted as a structure with attached lengths of rope or chain. **7474** is a scatter of dark reflectors located near the end of one of the lengths of rope or chain, and could be associated debris. A complex 26nT magnetic anomaly indicates the presence of some ferrous material.
- 4.3.45 This site, one of a number previously recorded as a submarine boom from within the Thames area, was originally identified by PLA in 1981 (WA 2008e). Diving investigations have recovered sections of a WWII submarine boom from the site, mostly sinkers and other related debris. The site is currently recorded as a foul ground by UKHO and appears to be periodically buried and exposed, as not all surveys undertaken in the area have identified it. It is very similar in appearance to another previously unrecorded feature identified approximately 800m NW on the northern edge of the dredged channel (**7452**).
- 4.3.46 Anomaly **7519** correlates with the recorded position of the wreck of the *Dovenby* (North) (UKHO 12890, NMR 908039, PLA 716), and can be grouped with anomalies **7514**, **7518**, **7520**, **7521** and **7522** as an area of archaeological potential (**Sheet 23**). The area is mostly located outside of the study area, and the site has previously been subject to CMS, though is located within the deep water channel.
- 4.3.47 The wreck is clearly visible on both sidescan sonar and multibeam bathymetry data, measuring approximately 59.5 x 25.5 x 2.2m, and is associated with a very large, 2840nT magnetic anomaly. Clear reflectors identified by the geophysical survey indicate some of the structure is still coherent, though in other areas it appears broken up and is known to have been dispersed by explosives in the past (WA 2008g). The very large magnetic anomaly indicates it is probably a steel hulled vessel. A large scour up to 2m deep extends both east and west of the structure, and most of the pieces of associated debris, **7520**, **7521** and **7522**, are located within the eastern scour.
- 4.3.48 Until recently, this wreck was thought to represent one half of the *Dovenby*, a steel barque which sank in 1914, the other half of which was thought to be located approximately 160m to the SE (**7517**, UKHO 12888, NMR 908038, PLA 717). More recent investigations, however, suggest that this is not the case and that this wreck is actually that of a previously unknown vessel, though it is still referred to as the *Dovenby* (North) at present (WA 2010, WA 2008g). Diving investigations, combined with the geophysical survey results, indicate it is a vessel of similar construction but smaller size to the *Dovenby*.
- 4.3.49 Anomaly **7515** is an area of irregular dark reflectors associated with a 66nT magnetic anomaly, measuring approximately 21.6 x 10.4m, and located outside of the study area. This is interpreted as a possible field of partially buried ferrous debris. It is potentially associated with the nearby wreck of the *Dovenby* (South) (**7517**), located approximately 175m ENE, though this is unclear. Similarly, anomaly **7516** is a small, irregular dark reflector measuring 0.6m x 0.1m x 0.2m, again located outside of the study area and possibly a piece of debris related to the *Dovenby* (South).
- 4.3.50 Anomaly **7517** correlates with the recorded location of the *Dovenby* (South) (UKHO 12888, NMR 908038). The wreck is located outside of the study area and the site has previously been subject to CMS, but it is within the deep water channel. The

site was only recorded by the sidescan sonar and magnetometer on a line turn during the survey which may result in inaccuracies in positioning and measurements of the structure.

- 4.3.51 The wreck was poorly imaged by sidescan sonar, and appears to comprise an area of debris rather than a coherent structure. However, previous surveys and investigations indicate this is not the case (WA 2008g), and that this appearance is more likely to be a result of the data quality. The structure itself appears to be located within a large scour at least 3m deep, and it is associated with a 211nT magnetic anomaly, suggesting a steel-hulled structure.
- 4.3.52 This was originally thought to be one of two sections of the *Dovenby*, with the other located approximately 160m to the NW (**7519**). It is now thought, however, that this site represents the entire wreck of the *Dovenby*, and that the northern part represents an entirely different, unidentified vessel (WA 2010, WA 2008g).
- 4.3.53 The *Dovenby* was a steel barque built in 1891 in Sunderland, and sank after a collision with the SS *Sindoro* on 06/11/1914. Numerous diving investigations and surveys have repeatedly located the vessel and shown that a significant portion of the structure remains both on, and buried under, the seabed. However, it is known that the structure has been subject to dispersal by both explosions and cutting on a number of occasions (WA 2008g).
- 4.3.54 Anomalies **7182**, **7429** and **7463** are separate features, but all are large, isolated magnetic anomalies of 355nT, 108nT and 100nT respectively without any identified associated sidescan sonar or multibeam bathymetry anomalies. These potentially represent a significant amount of buried ferrous debris, though without identifiable anomalies on the seabed, their nature can not be determined definitively.
- 4.3.55 In addition to these 77 anomalies of archaeological potential, 254 anomalies of possible archaeological potential, designated A2, have been identified.
- 4.3.56 A total of 101 anomalies designated as A2 have been classified as debris. Of these, 84 are interpreted as being individual pieces of debris, most of which have been interpreted as being non-ferrous in nature, though 27 were found to be associated with magnetic anomalies and are possibly at least partially ferrous.
- 4.3.57 The remaining 17 have been interpreted as debris fields, and are characterised by small scatters of irregular dark reflectors. Again, most are interpreted as being non-ferrous in nature, though anomalies **7299**, **7349**, **7368** and **7467** have been associated with magnetic anomalies so could be at least partially ferrous in nature.
- 4.3.58 These pieces of debris have not been definitively identified as specific features or structures, and could represent either modern or older features. A full list of the anomalies classified as debris is present in **Appendix II**.
- 4.3.59 11 anomalies designated as A2, **7188**, **7195**, **7220**, **7320**, **7331**, **7356**, **7372**, **7389**, **7395**, **7503** and **7506**, are curvilinear dark reflectors interpreted as lengths of rope or chain. None of these have been associated with a magnetic anomaly. These could be modern lengths of rope or chain lost overboard relatively recently, or could be attached to buried features.
- 4.3.60 A total of 53 A2 anomalies have been classified as dark reflectors (see **Appendix II** for full list). These are isolated dark reflectors of uncertain origin, and could either be pieces of debris, natural features such as boulders, or isolated pieces of

- disturbed seafloor created during dredging. Generally they have not been associated with any magnetic anomalies, so are interpreted as being non-ferrous in nature. However, anomaly **7382** has been very tentatively associated with a small magnetic anomaly of 12nT, though this association is uncertain due to the possible natural nature of the magnetic anomaly.
- 4.3.61 Two anomalies, **7185** and **7491**, have been classified as areas of seafloor disturbance, and could be features created by dredging or represent the presence of debris just beneath the seabed. **7491** has been tentatively associated with a small, 14nT magnetic anomaly, suggesting the presence of a small amount of buried ferrous debris. However, this is located in an area of numerous small magnetic anomalies only identified on one line, and it was likely to have been caused by shallow water depths along the southern edge of the dredged channel rather than being associated with anomaly **7491**.
- 4.3.62 Anomaly **7304** is a poorly defined long, low mound measuring approximately 32.9m x 5.4m x 0.2m that has not been associated with a magnetic anomaly. It is within the dredged channel and could potentially be a seabed feature created during dredging, though it could also represent an area of buried non-ferrous debris.
- 4.3.63 Two anomalies, **7199** and **7200**, have been classified as a possible mooring point. **7200** is an area of seafloor disturbance measuring approximately 12.5 x 3.3m, whilst **7199** comprises a series of curvilinear dark reflectors extending from **7200**. Together they possibly represent anchor scars and an associated pull-out pit, though, because it is not certain whether a vessel would be permitted to anchor so close to the deep water navigation channel for any length of time, the possibility that they represent partially buried non-ferrous debris can not be discounted at this stage.
- 4.3.64 The remaining 80 A2 anomalies are purely magnetic in nature without any identified associated sidescan sonar or multibeam bathymetry anomalies. These range from 5nT to 96nT in amplitude, and possibly represent pieces of buried ferrous debris of varying sizes. The smaller anomalies could also represent natural sudden changes in bathymetry or underlying geology. Without identifiable features on the seabed associated with these magnetic anomalies, their nature can not be determined definitively.
- 4.3.65 In addition to the anomalies outlined above, 10 previously recorded wrecks or obstructions are located within Zones 26-36 that were not identified within the geophysical data. These sites are retained here and designated as A3, as it is possible some buried debris still exists at some these locations, though this cannot be confirmed.
- 4.3.66 Sites **7203** (UKHO 12924) and **7207** (UKHO 13186, NMR 831879, PLA 681) are the locations of previously recorded obstructions. These are located towards the centre of the dredged channel, and could represent natural features that were removed during dredging.
- 4.3.67 Sites **7471** (UKHO 13159, NMR 800478, PLA 712), **7472** (UKHO 13156, NMR 800471, PLA 713) and **7490** (UKHO 13264, NMR 800464, PLA 791) are all previously recorded locations of sections of the Thames submarine boom. All three sites are reported to have been cleared. Sites **7383** (UKHO 13374, PLA 785) and **7403** (UKHO 12881, PLA 766) are also recorded as obstructions, with both recorded as being cleared.

- 4.3.68 Site **7351** is the recorded location of an unidentified “Brick Barge”, the remains of a vessel possible lost in 1922, and has previously been subject to CMS. Diving investigations have identified piles of bricks and pebbles on the seabed, with a linear concretion standing proud of the seabed interpreted as a possible bulkhead. From this it has been interpreted that the vessel was of at least partial ferrous construction and carrying a cargo of bricks. The vessel has previously been cleared from the site and no remains were identified within the geophysical data, though it is possible that some buried debris still remains at the site.
- 4.3.69 Site **7404** is the recorded location of the wreck of the *Aqueity* (UKHO 12878), a cargo ship that was lost in the Thames in 1940. However, no anomalies were recorded at this location by any of the geophysical equipment. It is likely that any wreckage once present at this site has been previously cleared, or that the record is erroneously positioned and wreck is located elsewhere.
- 4.3.70 Finally, site **7409** is the recorded location of the wreck of MTB (motor torpedo boat) 106 (UKHO 12882), lost in the Thames in 1940. However, no anomalies were recorded at this location by any of the geophysical equipment. It is likely that any wreckage once present at this site has been previously cleared, or that the record is erroneously positioned and wreck is located elsewhere.

4.4 ZONE 105

- 4.4.1 A total of ten main survey lines were run within Zone 105 at a spacing of 40m, and two point survey areas, 72436_7199 and 72436_7200, were also run comprising seven short survey lines each. The track plot is illustrated in **Figure 12**, and the resulting processed geophysical data in **Figure 13**, **Figure 14**, and **Figure 15**.
- 4.4.2 During initial interpretation of the data, a total of 77 individual geophysical anomalies were identified within Zone 105. After further interpretation, anomaly grouping as described in Section 3.3, and removal of any anomalies located outside of the survey corridors or thought to be geological in origin, 20 sites of archaeological potential were identified:

Archaeological Discrimination	Number of Anomalies	Interpretation
A1	3	Anthropogenic origin of archaeological interest
A2	17	Uncertain origin of possible archaeological interest
A3	0	Historic record of possible archaeological interest with no corresponding geophysical anomaly
O1	0	Located outside of the horizontal footprint of the proposed scheme
Total	20	

Table 8: Sites of archaeological potential within Zone 105

- 4.4.3 Furthermore, these sites of potential archaeological interest can be classified by probable type, which can further aid in assigning archaeological potential and importance:

Anomaly Classification	Number of Anomalies
Debris	11
Rope / Chain	1
Dark Reflector	1
Seafloor Disturbance	1
Magnetic	6
Total	20

Table 9: Types of anomalies identified within Zone 105

- 4.4.4 The anomalies are discussed below and a gazetteer is supplied in **Appendix III**. The locations of all of the anomalies identified within Zones 9-11 are illustrated in **Figure 16**, with the locations of only those anomalies classified as of archaeological potential illustrated in **Figure 17** shown in relation to anomalies identified during previous surveys and sites previously subject to CMS.
- 4.4.5 Three anomalies of archaeological potential have been identified within Zone 105. All of these are located within the study area, and inside the dredged channel.
- 4.4.6 Anomaly **7530 (Sheet 24)** is a newly identified anomalous seabed mound identified by sidescan sonar measuring approximately 21.0 x 4.3 x 0.4m. The feature is orientated approximately NE-SW and cuts across the orientation of the sand ripples crests visible on the seabed, indicating it is unlikely to be a natural feature. It comprises a curvilinear reflector built up into a mound, and is possibly an area of partially buried ferrous debris. The feature has not been associated with a magnetic anomaly, so any debris present is likely to be non-ferrous in nature.
- 4.4.7 Anomalies **7534** and **7535 (Sheet 25)** are also newly identified anomalies and can be grouped together to form a single area of archaeological potential. These are two similar, irregular dark reflectors without shadows located approximately 25m apart and are very similar in size, measuring approximately 5.0 x 2.7 x 0.0m. A small but distinct magnetic anomaly of 8nT has been associated with the features.
- 4.4.8 These are located in an area from within which aircraft debris has previously been uncovered (WA 2011) and, due to their relatively poorly defined nature and small associated magnetic anomaly, these anomalies could also possibly be pieces of aircraft debris.
- 4.4.9 A total of six anomalies designated as A2 have been classified as debris. Anomalies **7526**, **7529**, **7538**, **7540**, **7541** and **7542** are all individual irregular anomalies with shadows and have been interpreted as individual pieces of debris. Most have not been associated with a magnetic anomaly and so are interpreted as probably being non-ferrous in nature, though **7529** has been associated with a 6nT magnetic anomaly and so is possibly at least partially ferrous.
- 4.4.10 Anomalies **7527** and **7539** are small areas of irregular dark reflectors and have been interpreted as debris fields. The former is expected to be non-ferrous, whilst the latter has been associated with a 5nT magnetic anomaly and possibly contains a small amount of ferrous debris.
- 4.4.11 Anomaly **7525** is a curvilinear dark reflector with a small shadow, and has been interpreted as a length of rope or chain. It has not been associated with a magnetic anomaly, but could represent modern debris or be attached to a larger buried structure. This anomaly is not within Zone 105 but is within point survey area 72436_7199, located approximately 120m ENE of the given anomaly location. It is not known whether this is associated with the previously identified anomaly or not.

- 4.4.12 A single anomaly, **7536**, has been classified as a dark reflector. This is an isolated elongate anomaly of uncertain origin, and could either be pieces of debris or a seabed scar. It has not been associated with a magnetic anomaly, so if it is debris it is interpreted as being non-ferrous in nature.
- 4.4.13 Anomaly **7528** has been classified as an area of seafloor disturbance. It has not been associated with a magnetic anomaly, and could either be a natural feature or represent the presence of a scatter of non-ferrous debris just below the seabed.
- 4.4.14 The remaining six A2 anomalies, **7523**, **7524**, **7531**, **7532**, **7533** and **7537**, are purely magnetic in nature without any identified associated sidescan sonar or multibeam bathymetry anomalies. These range from 6nT to 26nT in amplitude, and possibly represent small pieces of buried ferrous debris of varying sizes. The smaller anomalies could also represent natural sudden changes in bathymetry or underlying geology. Without identifiable features on the seabed associated with these magnetic anomalies, their nature can not be determined definitively. **7523** and **7524** are located within point survey area 72436_7200, though it is uncertain whether these are related to the original identified anomaly at this location.
- 4.4.15 No previously recorded UKHO or NMR sites are located within Zone 105. Neither of the anomalies previously recorded at point survey areas 72436_7199 and 72436_7200 have been definitively identified. However, given the mobile nature of the seabed sediment present in these locations, it is possible that any anomalies previously identified could be buried at the present time.

5. RECOMMENDATIONS

- 5.1.1 A large number of geophysical anomalies classified as being of archaeological potential have been identified from within the three study areas. Most of these have been identified along the edges of the study areas, though some are located within the dredged channel.
- 5.1.2 A number of anomalies identified correspond to the locations of known sites, e.g. the "Iron Bar Wreck", *London* (Site 2), and these have all previously been individually investigated, by both geophysics and diving, and subject to CMS created for each individually site (WA 2008a, 2008b, 2008c etc.).
- 5.1.3 Because of this, it is recommended that these sites are not investigated further at this time, but that any future dredging work along the channel is undertaken with reference to the recommendations laid out in the CMS for individual sites.
- 5.1.4 This leaves a total of 44 individual seabed anomalies of archaeological potential within all three study areas, which can be grouped into 18 areas of archaeological potential: Six in Zones 9-11, ten in Zones 26-36, and two in Zone 105. Additionally, four very large magnetic anomalies have been observed without corresponding sidescan sonar or multibeam bathymetry contacts: two in Zones 9-11, and two in Zones 26-36. These should also be regarded as archaeological potential. These are outlined in Table 10, and the locations of these areas illustrated in **Figure 18**, **Figure 19** and **Figure 20**:

Zone	WA_ID Areas
9-11	7021
	7034
	7050, 7051, 7052
	7060
	7072
	7132, 7133, 7138
26-36	7209
	7253, 7254, 7255, 7256, 7257, 7258, 7259
	7262, 7263, 7264
	7274
	7283
	7358, 7359, 7360
	7430, 7431, 7432, 7433, 7434, 7435, 7436, 7437, 7438, 7439
	7458, 7459, 7460
	7462
	7465
105	7530
	7534, 7535

Table 10: Areas of Anomalies of Archaeological potential for All Zones

- 5.1.5 The submarine boom identified on the northern edged of the channel, **7452**, has not been included in this list, as a similar feature from within the area has already been investigated and subject to CMS, **7473**. Any features located outside of the study area have also not been included, as it is expected that any dredging undertaken within the channel will not directly impact them.
- 5.1.6 It is recommended that these sites be investigated further, preferable by diving, before future dredging takes place, or that they be avoided by future dredging until such an investigation can be undertaken. These investigations will then help ascertain the precise nature of these geophysical anomalies, and aid in further defining their archaeological significance.

6. REFERENCES

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- Wessex Archaeology, 2008f, *London Gateway Clearance Programme: Anti Submarine Defence Boom Further Documentary Research*, Unpublished Report, Ref: 66893.01
- Wessex Archaeology, 2008g, *London Gateway Clearance: Archaeology – Clearance Mitigation Statement (5010)*, Unpublished Report, Ref: 61209.5010.02

APPENDIX I: ANOMALIES OF ARCHAEOLOGICAL POTENTIAL – ZONE 9-11

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7000	Debris Field	332977	5708270	O1	25.5	23.6	0.0	-	Large area of irregular dark reflectors and surrounding area of seafloor disturbance, without an associated magnetic anomaly. Possible large area of non-ferrous debris or the remains of a non ferrous structure. Located outside of the current geophysical study area.	6877	-
7001	Rope / Chain	333172	5708313	A2	48.4	0.1	0.4	-	Intermittent curvilinear dark reflector with small shadow but without an associated magnetic anomaly. Possible length of partially buried rope or chain.	6872	-
7002	Rope / Chain	333143	5708399	A2	10.7	0.2	0.3	-	Intermittent curvilinear dark reflector with small shadow but without an associated magnetic anomaly. Possible length of partially buried rope or chain.	6866	-
7003	Rope / Chain	333182	5708411	A2	10.4	0.1	0.2	-	Intermittent curvilinear dark reflector with small shadow but without an associated magnetic anomaly. Possible length of partially buried rope or chain.	6865	-
7004	Dark Reflector	333221	5708389	A2	1.2	1.1	0.6	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6864	-
7005	Dark Reflector	333177	5708525	A2	1.9	0.1	0.3	-	Irregular dark reflector with small shadow and possible scour, but no associated magnetic anomaly. Could be a natural feature of a piece of non-ferrous debris.	6861	-
7006	Dark Reflector	333235	5708525	A2	3.4	1.1	0.5	-	Irregular dark reflector with small shadow and possible scour, but no associated magnetic anomaly. Could be a natural feature of a piece of non-ferrous debris.	6858	-
7007	Debris	333172	5708556	A2	4.5	0.3	0.1	-	Short, curvilinear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6857	-
7008	Magnetic	333082	5708576	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6856	-
7009	Dark Reflector	333134	5708571	A2	3.0	1.6	0.1	-	Irregular dark reflector with small shadow and possible scour, but no associated magnetic anomaly. Could be a natural feature of a piece of non-ferrous debris.	6855	-
7010	Wreck	333436	5708584	A1	27.0	12.5	1.6	41	Mound observed on multibeam bathymetry data and associated with a distinct magnetic anomaly. Located at the position of a known obstruction, previously reported to be the remains of an aircraft. No definitive structure besides the mound identified, but the magnetic anomaly indicates the presence of ferrous debris in the vicinity. A large shallow scour (approx. 0.5m deep) extends approximately 38m east of the mound. One distinct piece of debris (7022) identified approximately 100m east. Previously investigated by the PLA, aluminium and ferrous objects recovered by divers.	6852	13360 (UKHO), 698 (PLA)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7011	Magnetic	333378	5708555	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6851	-
7012	Magnetic	333362	5708475	A2	-	-	-	68	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6849	-
7013	Debris	333424	5708458	A2	4.4	0.4	0.9	12	Elongate, irregular dark reflector with large shadow and associated with a small magnetic anomaly. Possible piece of ferrous debris.	6848	-
7014	Magnetic	333470	5708390	A2	-	-	-	48	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6846	-
7015	Magnetic	333369	5708365	A2	-	-	-	38	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6845	-
7016	Magnetic	333434	5708230	A2	-	-	-	26	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6843	-
7017	Debris Field	333669	5708385	A2	8.7	9.5	0.0	-	Area of poorly defined, irregular dark reflectors with shadows but without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6841	-
7018	Dark Reflector	333681	5708375	A2	1.2	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6840	-
7019	Debris	333629	5708451	A2	1.1	0.1	0.2	37	Dark reflector with shadow and associated with a magnetic anomaly. Possible piece of ferrous debris.	6838	-
7020	Magnetic	333663	5708455	A2	-	-	-	83	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible large piece of buried ferrous debris or buried structure.	6837	-
7021	Debris Field	333679	5708527	A1	24.0	17.0	0.4	99	Area of irregular dark reflectors and seafloor disturbance, with one large dark reflector with large shadow. Associated with a large magnetic anomaly and possibly a scatter of ferrous debris or partially buried structure.	6836	-
7022	Debris	333538	5708572	A2	9.7	3.8	0.0	-	Irregular dark reflector with shadow and possible structure, but no associated magnetic anomaly. Possible non-ferrous debris, possibly associated with wreck 7010.	6835	-
7023	Magnetic	333816	5708438	A2	-	-	-	48	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6830	-
7024	Magnetic	333801	5708362	A2	-	-	-	28	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6829	-
7025	Rope / Chain	333594	5708233	A2	18.6	0.2	0.1	-	Intermittent curvilinear dark reflector with small shadow but without an associated magnetic anomaly. Possible length of partially buried rope or chain.	6828	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7026	Debris	333592	5708227	A2	0.7	0.2	0.5	-	Round dark reflector with shadow and possible structure, but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6827	-
7027	Dark Reflector	333673	5708293	A2	1.0	0.2	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6826	-
7028	Dark Reflector	333656	5708285	A2	0.9	0.2	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6825	-
7029	Debris Field	333701	5708262	A2	5.6	10.4	0.0	-	Area of poorly defined, irregular dark reflectors with shadows but without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6824	-
7030	Dark Reflector	333713	5708279	A2	3.7	0.9	0.5	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6823	-
7031	Rope / Chain	333718	5708286	A2	57.5	0.8	0.0	-	Curvilinear dark reflector without a shadow or an associated magnetic anomaly. Possible length of rope or chain.	6822	-
7032	Dark Reflector	333688	5708288	A2	3.5	1.2	0.5	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6821	-
7033	Debris Field	334081	5708526	A2	17.1	3.2	0.0	-	Area of irregular dark reflectors with shadows but without an associated magnetic anomaly. Possible scatter of non-ferrous debris. Possibly associated with nearby debris 7034.	6816	-
7034	Debris	334136	5708533	A1	5.4	3.9	0.8	236	Dark reflector with large shadow and small possible scour, associated with a large magnetic anomaly. Possible piece of large ferrous debris, or partially buried structure.	6815	-
7035	Magnetic	333948	5708430	A1	-	-	-	137	Large, distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible large piece of buried ferrous debris or buried structure. Located close to possible pieces of debris 7036 and 7037.	6813	-
7036	Debris	333972	5708438	A2	3.7	0.7	0.5	-	Short linear dark reflector with shadow and small scour, but without an associated magnetic anomaly. Possible piece of non-ferrous debris. Similar to nearby anomaly 7037.	6812	-
7037	Debris	333982	5708424	A2	3.3	0.7	0.5	21	Short linear dark reflector with shadow and small scour, associated with a distinct magnetic anomaly. Possible piece of ferrous debris. Similar to nearby anomaly 7036.	6811	-
7038	Debris	334027	5708418	A2	11.1	1.4	0.5	-	Straight, linear alignment of dark reflectors with shadows but no associated magnetic anomaly. Possibly a piece of partially buried non-ferrous debris.	6809	-
7039	Debris Field	334037	5708400	A2	8.3	6.4	0.0	-	Area of irregular dark and bright reflectors without an associated magnetic anomaly. Possible scatter of non-ferrous debris. Located close to other possible debris 7038.	6808	-
7040	Debris Field	334085	5708407	A2	12.8	9.7	0.0	-	Area of irregular dark and bright reflectors without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6805	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7041	Rope / Chain	334096	5708143	O1	32.1	0.2	0.3	-	Curvilinear dark reflector with shadow but without an associated magnetic anomaly. Possible length of rope or chain. Located outside of the current geophysical study area. Possibly related to previously identified site located approximately 50m west.	6798	13164 (UKHO), 614 (PLA)
7042	Debris	334076	5708145	O1	7.3	1.5	0.7	-	Linear dark reflector with shadow and surrounding seafloor disturbance, but no associated magnetic anomaly. Possible non ferrous debris or a partially buried structure. Located outside of the current geophysical study area. Possibly related to previously identified site located approximately 30m west.	6797	13164 (UKHO), 614 (PLA)
7043	Debris	334120	5708183	A2	0.6	0.2	0.3	26	Dark reflector with shadow, possibly associated with a magnetic anomaly. Possible piece of ferrous debris.	6796	-
7044	Debris	334169	5708197	A2	2.4	0.1	0.2	-	Short, linear dark reflector with shadow but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6793	-
7045	Magnetic	334217	5708290	A2	-	-	-	79	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a large piece of buried ferrous debris.	6791	8006 (Strike Report)
7046	Dark Reflector	334139	5708348	A2	3.0	0.6	0.7	-	Elongate dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris. Located close to similar anomaly 7047.	6790	-
7047	Dark Reflector	334149	5708358	A2	2.6	0.4	0.5	-	Elongate dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris. Located close to similar anomaly 7046.	6789	-
7048	Dark Reflector	334196	5708399	A2	2.7	0.7	0.6	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6788	-
7049	Debris Field	334209	5708411	A2	16.4	8.0	0.0	-	Area of irregular dark and bright reflectors without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6787	-
7050	Debris	334227	5708438	A1	8.3	7.6	0.0	-	Right-angled dark reflector and other irregular dark reflectors with shadows, but without an associated magnetic anomaly. Possible piece of non-ferrous debris or a partially buried structure. Large, shallow scour extends approximately 35m to the east. Located close to possible debris 7051 and 7052.	6786	-
7051	Debris	334245	5708466	A1	21.4	0.2	0.0	-	Two curvilinear dark reflectors along the same alignment, possibly part of the same partially buried feature. No associated magnetic anomaly and could be non-ferrous debris or a partially buried structure. Located close to possible debris 7050 and 7052.	6785	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7052	Debris	334255	5708459	A1	15.0	0.5	0.0	-	Two straight, linear dark reflectors along the same alignment, possibly part of the same partially buried feature. No associated magnetic anomaly and could be non-ferrous debris or a partially buried structure. Located close to possible debris 7050 and 7051.	6784	-
7053	Dark Reflector	334278	5708438	A2	1.4	0.3	0.5	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6783	-
7054	Debris	334256	5708519	A2	1.1	1.0	0.6	-	Dark reflector with shadow and possible small scour but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6782	-
7055	Magnetic	334318	5708401	A2	-	-	-	53	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a large piece of buried ferrous debris.	6781	-
7056	Debris Field	334347	5708415	A2	11.7	3.6	0.0	-	Area of irregular, mainly short curvilinear, dark reflectors with small shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris or partially buried structure. Large shallow scour extends approximately 60m west of the debris.	6780	-
7057	Dark Reflector	334279	5708203	A2	4.5	2.4	0.5	-	Elongate dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6779	-
7058	Magnetic	334328	5708280	A2	-	-	-	9	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6778	8006 (Strike Report)
7059	Magnetic	334352	5708320	A2	-	-	-	51	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a large piece of buried ferrous debris.	6777	-
7060	Debris	334410	5708393	A1	1.5	0.3	0.7	103	Distinct dark reflector with shadow, associated with a large magnetic anomaly. Possible piece of ferrous debris or part of a partially buried ferrous structure.	6776	-
7061	Dark Reflector	334458	5708422	A2	5.6	0.5	0.3	-	Elongate, irregular dark reflector with shadow but without an associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6775	-
7062	Dark Reflector	334483	5708251	A2	2.1	0.4	0.6	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6774	8006 (Strike Report)
7063	Mound	334657	5708289	A2	13.5	10.0	2.0	110	Small mound identified by multibeam bathymetry data, and associated with a large magnetic anomaly. Could represent a small buried ferrous structure, or be related to the Sea Reach 7 Marker Buoy.	6772	Admiralty Chart 1185
7064	Dark Reflector	334681	5708310	A2	1.2	0.3	0.6	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6771	-
7065	Seafloor Disturbance	334660	5708401	A2	6.2	2.1	0.0	-	Small area of seafloor disturbance without an associated magnetic anomaly. Could be caused by dredging, or indicate partially buried non-ferrous debris.	6767	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7066	Dark Reflector	334689	5708403	A2	1.4	0.4	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6766	-
7067	Debris	334777	5708470	A2	5.3	0.8	0.0	-	Short, irregular linear bright reflector without an associated magnetic anomaly. Possible piece of non-ferrous debris, possibly the shadow of a poorly defined dark reflector.	6763	-
7068	Debris Field	334834	5708460	A2	10.4	5.3	0.0	-	Area of irregular dark reflectors with shadows and small area of surrounding seafloor disturbance, but no associated magnetic anomaly. Possible scatter of partially buried non-ferrous debris.	6762	-
7069	Magnetic	334903	5708160	A2	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris, possibly related to debris field 7072.	6761	-
7070	Magnetic	334876	5708120	A2	-	-	-	17	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris, possibly related to debris field 7072.	6760	-
7071	Debris Field	334908	5708140	A2	8.5	7.3	0.0	-	Area of scattered, irregular dark reflectors with shadows, possibly associated with a magnetic anomaly though this is uncertain. Possible related to nearby debris field 7072.	6759	-
7072	Debris Field	334943	5708140	A1	29.5	10.3	0.0	411	Area of scattered, irregular dark reflectors with shadows and associated with a large magnetic anomaly. Possible area of ferrous debris or partially buried structure.	6758	-
7073	Debris	335051	5708126	A2	0.5	0.1	0.4	-	Dark reflector with shadow but without an associated magnetic anomaly. Located in an area with a number of similar anomalies and possibly a piece of non-ferrous debris, possibly related to debris field 7072.	6757	8006 (Strike Report)
7074	Debris	335048	5708112	A2	3.4	2.1	0.0	-	Dark reflector without a shadow or an associated magnetic anomaly. Located in an area with a number of similar anomalies and possibly a piece of non-ferrous debris, possibly related to debris field 7072.	6756	8006 (Strike Report)
7075	Debris	335038	5708130	A2	1.7	1.9	0.3	-	Dark reflector with shadow but without an associated magnetic anomaly. Located in an area with a number of similar anomalies and possibly a piece of non-ferrous debris, possibly related to debris field 7072.	6755	-
7076	Debris	335035	5708123	A2	1.0	0.4	0.4	-	Dark reflector with shadow but without an associated magnetic anomaly. Located in an area with a number of similar anomalies and possibly a piece of non-ferrous debris, possibly related to debris field 7072.	6754	-
7077	Debris	335018	5708134	A2	1.1	0.2	0.5	-	Dark reflector with shadow but without an associated magnetic anomaly. Located in an area with a number of similar anomalies and possibly a piece of non-ferrous debris, possibly related to debris field 7072.	6753	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7078	Rope / Chain	334967	5708233	A2	20.2	0.2	0.0	-	Intermittent linear dark reflector with irregular shadow without an associated magnetic anomaly. Possible length of partially buried rope or chain.	6750	8006 (Strike Report)
7079	Magnetic	335211	5708180	A2	-	-	-	22	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a piece of buried ferrous debris.	6749	-
7080	Debris	335140	5708240	A2	2.6	0.2	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Possible non-ferrous debris.	6747	-
7081	Debris	335178	5708225	A2	2.2	0.5	0.6	-	Irregular dark reflector with shadow and possible structure, but no associated magnetic anomaly. Possible non-ferrous debris.	6746	8006 (Strike Report)
7082	Debris	335255	5708241	A2	3.2	0.6	0.8	-	Two adjacent dark reflectors with shadows but without an associated magnetic anomaly. Possible non-ferrous debris.	6745	-
7083	Debris Field	334912	5708316	A2	7.2	3.8	0.0	-	Small area of irregular dark reflectors with shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris.	6744	-
7084	Dark Reflector	334973	5708346	A2	1.1	0.5	0.5	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6743	-
7085	Debris Field	335002	5708384	A2	9.5	4.6	0.0	-	Small area of irregular dark reflectors with shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris.	6741	-
7086	Debris Field	335017	5708382	A2	9.4	4.7	0.0	-	Area of dark reflectors with shadows, centred on a large linear dark reflector with large shadow, but no associated magnetic anomaly. Possible small scatter of non-ferrous debris.	6740	-
7087	Debris Field	335022	5708367	A2	6.7	2.2	0.0	-	Small area of irregular dark reflectors with shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris.	6739	-
7088	Magnetic	335093	5708380	A2	-	-	-	13	Small but distinct magnetic anomaly in an area of noise, no associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6737	-
7089	Magnetic	335155	5708375	A2	-	-	-	23	Distinct magnetic anomaly in an area of noise, no associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6736	-
7090	Dark Reflector	335214	5708352	A2	2.6	0.2	0.3	-	Elongate dark reflector with distinct shadow but without an associated magnetic anomaly. Could be natural or a piece of non-ferrous debris. Close to similar anomaly 7091.	6734	-
7091	Dark Reflector	335224	5708352	A2	4.1	0.1	0.5	-	Elongate dark reflector with distinct shadow but without an associated magnetic anomaly. Could be natural or a piece of non-ferrous debris. Close to similar anomaly 7090.	6733	-
7092	Magnetic	335357	5708415	A2	-	-	-	8	Small but distinct magnetic anomaly in an area of noise, no associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6725	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7093	Dark Reflector	335384	5708362	A2	1.6	0.7	0.4	-	Two adjacent dark reflectors with shadows but without an associated magnetic anomaly. Could be natural or non-ferrous debris.	6724	-
7094	Debris	335359	5708311	A2	3.0	0.9	0.6	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6723	-
7095	Rope / Chain	335384	5708307	A2	13.5	0.5	0.4	-	Curvilinear dark reflector with small shadow but no associated magnetic anomaly. Probable length of rope or chain.	6722	-
7096	Dark Reflector	335371	5708295	A2	1.1	1.0	0.6	-	Two adjacent dark reflectors with shadows but without an associated magnetic anomaly. Could be natural or non-ferrous debris.	6721	-
7097	Magnetic	335359	5708242	A2	-	-	-	23	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6719	-
7098	Dark Reflector	335401	5708234	A2	1.1	0.4	1.1	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6718	-
7099	Debris	335397	5708153	A2	4.0	0.9	0.5	14	Large irregular dark reflector with large shadow. Possibly associated with a small magnetic anomaly, though this is uncertain. Possible piece of debris.	6717	8009 - 8018 (Strike Report)
7100	Debris	335425	5708134	A2	3.2	0.5	0.2	-	Short, linear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6716	-
7101	Debris	335469	5708147	A2	4.4	0.7	0.5	-	Short, linear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6715	8006 (Strike Report)
7102	Debris Field	335488	5708145	A2	12.0	4.6	0.0	35	Small area of irregular dark reflectors with shadows, possibly associated with a magnetic anomaly. Possible scatter of ferrous debris.	6714	8006 (Strike Report)
7103	Dark Reflector	335501	5708203	A2	6.2	0.5	0.7	-	Large dark reflector with large shadow but without an associated magnetic anomaly. Could be natural or debris.	6713	-
7104	Debris	335517	5708178	A2	8.8	0.5	1.0	-	Linear dark reflector with shadow, or linear alignment of dark reflectors with shadows, but without an associated magnetic anomaly. Possible non-ferrous debris.	6712	-
7105	Magnetic	335525	5708075	A2	-	-	-	33	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6707	-
7106	Dark Reflector	335687	5708333	A2	2.0	0.4	0.6	-	Large dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6701	8006 (Strike Report)
7107	Dark Reflector	335575	5708213	A2	3.6	2.1	0.7	-	Large dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6696	-

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7108	Dark Reflector	335580	5708215	A2	1.6	0.6	0.8	-	Large dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6695	-
7109	Dark Reflector	335616	5708191	A2	1.6	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. In an area with numerous similar contacts, and could be natural or non-ferrous debris.	6692	-
7110	Debris Field	335624	5708179	A2	10.5	9.5	0.0	29	Small area of irregular dark reflectors with small shadows, possibly associated with a magnetic anomaly though this is uncertain. Possible debris field.	6691	-
7111	Dark Reflector	335657	5708204	A2	6.5	1.0	0.5	35	Irregular dark reflector (or collection of dark reflectors) with shadow, possibly associated with a magnetic anomaly though this is uncertain. Located in an area of numerous similar contacts, and could be natural or debris.	6689	-
7112	Dark Reflector	335647	5708203	A2	1.7	0.7	0.4	35	Irregular dark reflector with shadow, possibly associated with a magnetic anomaly though this is uncertain. Located in an area of numerous similar contacts, and could be natural or debris.	6688	-
7113	Dark Reflector	335689	5708191	A2	1.7	0.3	0.3	-	Large dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6687	-
7114	Debris	335698	5708195	A2	4.6	1.1	0.3	-	Irregular, elongate dark reflector with possible structure but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6686	-
7115	Dark Reflector	335678	5708189	A2	0.9	0.6	0.5	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Located in an area with similar contacts and could be natural or a piece of non-ferrous debris.	6685	-
7116	Dark Reflector	335684	5708203	A2	1.6	0.7	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Located in an area with similar contacts and could be natural or a piece of non-ferrous debris.	6684	-
7117	Dark Reflector	335683	5708210	A2	2.7	0.3	0.3	20	Irregular dark reflector with shadow, possibly associated with a small magnetic anomaly though this is uncertain. Located in an area of numerous similar contacts, and could be natural or debris.	6683	-
7118	Magnetic	335646	5708260	A1	-	-	-	160	Large, distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible large piece of buried ferrous debris or buried structure.	6682	-
7119	Debris Field	335729	5708209	A2	14.0	4.2	0.0	-	Area of irregular dark and bright reflectors without an associated magnetic anomaly. Possible small scatter of non-ferrous debris.	6681	8009 - 8018 (Strike Report)
7120	Magnetic	335611	5708145	A2	-	-	-	25	Distinct magnetic anomaly in an area of noise, no associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6678	8009 - 8018 (Strike Report)

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7121	Dark Reflector	335672	5708134	A2	3.1	1.1	0.7	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6677	8006 (Strike Report)
7122	Debris	335664	5708134	A2	4.2	1.6	0.5	-	Rectangular dark reflector with shadow and possible structure, though no associated magnetic anomaly. Possible piece of non-ferrous debris or partially buried structure.	6676	8006 (Strike Report)
7123	Dark Reflector	335653	5708147	A2	5.0	1.7	0.2	-	Group or irregular dark reflectors with shadows but no associated magnetic anomaly. Could be natural or non-ferrous debris.	6675	8009 - 8018 (Strike Report)
7124	Dark Reflector	335645	5708136	A2	8.6	0.2	0.3	-	Curvilinear dark reflector with small shadow but no associated magnetic anomaly. Could be a scar or a piece of linear non-ferrous debris.	6674	8006 (Strike Report)
7125	Dark Reflector	335633	5708134	A2	1.6	3.5	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6673	8006 (Strike Report)
7126	Magnetic	335661	5708100	A2	-	-	-	10	Small but distinct magnetic anomaly in an area of noise, no associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6672	8006 (Strike Report)
7127	Debris	335715	5708160	A2	4.2	1.5	0.5	-	Small, rectangular dark reflector with shadow but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6670	8009 - 8018 (Strike Report)
7128	Dark Reflector	335771	5708138	A2	3.4	0.4	0.2	-	Elongate dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6669	8009 - 8018 (Strike Report)
7129	Dark Reflector	335748	5708144	A2	2.5	0.6	0.0	-	Dark reflector without a shadow or associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6668	8009 - 8018 (Strike Report)
7130	Dark Reflector	335723	5708131	A2	3.9	2.7	0.7	-	Very large, irregular dark reflector (or group of dark reflectors) with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6667	8006 (Strike Report)
7131	Dark Reflector	335726	5708146	A2	1.9	1.5	0.4	-	Large, irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6666	8009 - 8018 (Strike Report)
7132	Debris Field	335783	5708159	A1	3.7	5.3	0.0	-	Small area of irregular dark reflectors with shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris. Located close to possible structure 7133.	6665	-
7133	Debris	335774	5708156	A1	8.2	2.7	0.6	-	Rectangular dark reflector with shadow and possible structure, though no associated magnetic anomaly. Possible piece of non-ferrous debris or partially buried structure. Located adjacent to possible debris field 7132.	6664	8009 - 8018 (Strike Report)
7134	Debris	335789	5708106	A2	3.4	0.5	0.4	-	Large dark reflector with large shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6663	8006 (Strike Report)
7135	Debris	335832	5708119	A2	4.3	0.8	0.0	-	Small rectangular bright reflector without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6662	-

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7136	Debris	335807	5708132	A2	1.2	0.3	0.4	13	Dark reflector with shadow, possibly associated with a small magnetic anomaly though this is more likely to be natural. Possible piece of debris.	6661	8009 - 8018 (Strike Report)
7137	Debris Field	335813	5708108	A2	7.4	3.6	0.0	-	Two short parallel straight linear dark reflectors with small shadows. No associated magnetic anomaly. Possibly a scatter of non-ferrous debris..	6660	8006 (Strike Report)
7138	Debris Field	335777	5708123	A1	21.0	7.3	0.0	-	Two distinct parallel curvilinear dark reflectors with small shadows associated with a small surrounding area of seafloor disturbance. No associated magnetic anomaly. Possibly a scatter of non-ferrous debris, or a partially buried structure.	6659	8006 (Strike Report)
7139	Recorded Obstruction	335841	5708061	A3	-	-	-	-	Area of previously recorded unidentified debris by UKHO and NMR not identified by any of the geophysical equipment. Previous investigation by divers indicates it is an area of modern dumped concrete rubble. Sand ripples on the seabed indicate it is possibly buried at the present time.	-	13248 (UKHO, 831884 (NMR))
7140	Dark Reflector	336069	5708031	A2	1.1	0.1	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6657	-
7141	Dark Reflector	336005	5708057	A2	0.7	0.2	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6656	-
7142	Dark Reflector	335978	5708090	A2	1.0	0.3	0.7	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6655	-
7143	Dark Reflector	335884	5708082	A2	0.6	0.4	0.5	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6654	8006 (Strike Report)
7144	Magnetic	335953	5708155	A2	-	-	-	50	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6653	8006 (Strike Report)
7145	Magnetic	335977	5708195	A2	-	-	-	21	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6652	-
7146	Dark Reflector	335975	5708244	A2	2.2	0.4	0.4	-	Large, irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6651	8006 (Strike Report)
7147	Dark Reflector	335983	5708279	A2	0.2	0.1	0.1	-	Dark reflector with shadow and small scour, but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6649	-
7148	Rope / Chain	335997	5708278	A2	11.8	0.3	0.1	-	Distinct curvilinear dark reflector with small shadow but without an associated magnetic anomaly. Possible length of rope or chain.	6648	-
7149	Dark Reflector	336002	5708202	A2	0.3	0.2	0.2	-	Dark reflector with shadow and small scour, but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6647	-

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7150	Dark Reflector	336017	5708197	A2	1.5	0.3	0.1	-	Dark reflector with shadow and small scour, but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6645	-
7151	Dark Reflector	336024	5708225	A2	0.6	0.1	0.2	-	Dark reflector with shadow and small scour, but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6644	-
7152	Seafloor Disturbance	336037	5708269	A2	12.3	5.1	0.0	-	Small area of seafloor disturbance without an associated magnetic anomaly. Could be caused by dredging, or indicate partially buried non-ferrous debris.	6643	-
7153	Debris Field	336046	5708268	A2	3.7	2.7	0.0	-	Two parallel, poorly defined dark reflectors with small shadows but without an associated magnetic anomaly. Possibly partially buried non-ferrous debris..	6642	-
7154	Seafloor Disturbance	336129	5708269	A2	30.4	21.1	0.0	-	Area of poorly defined, irregular dark reflectors without shadows or an associated magnetic anomaly. Could be an area of seafloor disturbance or indicate the presence of partially buried non-ferrous debris.	6641	8006 (Strike Report)
7155	Magnetic	336244	5708370	A2	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6638	-
7156	Dark Reflector	336298	5708348	A2	2.3	0.4	0.3	-	Dark reflector with shadow and small scour, but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6636	-
7157	Magnetic	336357	5708365	A2	-	-	-	31	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6635	-
7158	Debris	336500	5708357	A2	0.4	0.3	0.5	-	Distinct dark reflector with shadow and small scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6629	-
7159	Debris	336225	5708117	A2	6.5	0.5	0.2	-	Short, straight dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6626	8009 - 8018 (Strike Report)
7160	Dark Reflector	336510	5708001	A2	1.2	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6625	-
7161	Dark Reflector	336434	5708006	A2	11.9	2.7	0.0	-	Elongate, irregular dark reflector without a shadow or associated magnetic anomaly. Located close to possible debris field 6623, and could be non-ferrous debris or a natural feature.	6624	-
7162	Debris Field	336397	5708012	A2	20.9	12.3	0.0	-	Area of numerous curvilinear dark reflectors with small shadows but without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6623	-
7163	Dark Reflector	337236	5708177	A2	3.8	0.4	0.3	-	Elongate dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6606	8006 (Strike Report)

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7164	Dark Reflector	337238	5708262	A2	2.5	0.5	0.3	-	Elongate dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6604	8009 - 8018 (Strike Report)
7165	Magnetic	337560	5708191	A2	-	-	-	26	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6601	8006 (Strike Report)
7166	Magnetic	337781	5708260	A2	-	-	-	37	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6600	-
7167	Magnetic	337705	5708265	A2	-	-	-	30	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6599	-
7168	Dark Reflector	337820	5708247	A2	1.0	0.7	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6597	-
7169	Debris Field	337794	5707910	A2	98.7	22.0	0.0	-	Large area of scattered, indistinct dark and bright reflectors without shadows or an associated magnetic anomaly. Possibly a scatter of partially buried non-ferrous debris.	6596	-
7170	Debris	337701	5707911	A2	3.5	0.4	0.3	-	Strong, elongate dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6595	-
7171	Magnetic	338038	5708240	A2	-	-	-	20	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris. Possibly associated with anomaly 7172, though this is uncertain.	6586	-
7172	Dark Reflector	338014	5708234	A2	0.7	0.2	0.6	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6584	-
7173	Debris Field	338140	5707892	A2	26.8	6.2	0.0	-	Area of irregular dark reflectors with small shadows but without an associated magnetic anomaly. Possible scatter of non-ferrous debris. Close to similar feature 7174.	6583	-
7174	Debris Field	338195	5707885	A2	39.8	6.7	0.0	-	Area of irregular dark and bright reflectors without an associated magnetic anomaly. Possible scatter of non-ferrous debris. Close to similar feature 7173.	6582	-
7175	Debris	338203	5707940	A2	3.1	0.6	0.6	-	Elongate dark reflector with large shadow and surrounding scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6581	-
7176	Magnetic	338197	5708105	A2	-	-	-	15	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6579	8009 - 8018 (Strike Report)
7177	Magnetic	338226	5708195	A2	-	-	-	11	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6578	-
7178	Magnetic	338347	5707855	A2	-	-	-	20	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6576	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7179	Dark Reflector	338361	5707975	A2	1.3	0.5	0.3	-	Small dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6575	8006 (Strike Report)
7180	Magnetic	338402	5708055	A2	-	-	-	21	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6573	8009 - 8018 (Strike Report)
7181	Magnetic	338433	5708130	A2	-	-	-	21	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly a piece of buried ferrous debris.	6572	8006 (Strike Report)

1. Positions are given in UTMz31 (WGS84)
2. Positions given are $\pm 10\text{m}$

APPENDIX II: ANOMALIES OF ARCHAEOLOGICAL POTENTIAL – ZONE 26-36

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7182	Magnetic	339649	5707685	O1	-	-	-	355	Very large magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Could represent buried ferrous debris or structure. Located outside of the current geophysical study area.	6564	-
7183	Debris	339704	5707690	A2	1.1	0.3	0.3	5	Small dark reflector with shadow and possibly associated with a small magnetic anomaly. Possible small piece of ferrous debris.	6562	-
7184	Debris Field	339746	5707667	A2	8.4	2.7	0.0	-	Small area of irregular dark reflectors, some with small shadows, without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6561	-
7185	Seafloor Disturbance	339842	5707675	A2	43.5	24.1	0.0	-	Large area of seafloor disturbance containing some scattered dark reflectors, but no associated magnetic anomaly. Could be a seabed feature or represent partially buried non-ferrous debris.	6560	-
7186	Debris	339714	5707885	A2	5.7	0.3	0.3	7	Curvilinear dark reflector with shadow and a small associated magnetic anomaly. Possible piece of ferrous linear debris. Located adjacent to similar anomaly 7186.	6556	-
7187	Debris	339732	5707883	A2	7.4	0.5	0.3	-	Curvilinear dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous linear debris. Located adjacent to similar anomaly 7187.	6555	-
7188	Rope / Chain	339763	5707902	A2	22.3	0.1	0.2	-	Intermittent curvilinear dark reflector with small shadow but no associated magnetic anomaly. Possible length of rope or chain.	6553	-
7189	Dark Reflector	339785	5707850	A2	3.6	1.3	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6552	-
7190	Magnetic	339813	5707900	A2	-	-	-	17	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6551	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7191	Magnetic	339840	5707857	A2	-	-	-	25	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6550	-
7192	Magnetic	339874	5707850	A2	-	-	-	18	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6549	-
7193	Dark Reflector	340053	5707948	A2	1.6	0.9	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6547	-
7194	Magnetic	340104	5707800	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6546	-
7195	Rope / Chain	340024	5707631	A2	13.9	0.1	0.0	-	Curvilinear dark reflector without an associated magnetic anomaly. Feature appears curved back on itself, and is possible a length of rope or chain.	6543	-
7196	Debris Field	340184	5707606	A2	9.9	5.3	-	-	Small area of irregular dark reflectors, some with small shadows, without an associated magnetic anomaly. Possible scatter of non-ferrous debris.	6541	-
7197	Magnetic	340204	5707575	A2	-	-	-	35	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6540	-
7198	Debris	340241	5707581	A2	3.0	2.6	0.0	-	Irregular shaped dark reflector without a shadow or associated magnetic anomaly. Possible piece of non-ferrous debris, possible a coil of rope or chain.	6539	-
7199	Mooring / Buoy	340265	5707591	A2	79.6	0.2	0.0	-	A series of sub-parallel curvilinear dark reflectors extending from seafloor disturbance 7200. Possible scars from an anchoring / mooring point.	6538	-
7200	Mooring / Buoy	340307	5707584	A2	12.5	3.3	0.0	-	Small area of seafloor disturbance without an associated magnetic anomaly. A series of curvilinear reflectors extend from it, suggesting it is possibly a pull-out pit from an anchoring point.	6537	-
7201	Magnetic	340409	5707727	A2	-	-	-	31	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6535	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7202	Debris	340556	5707780	A2	3.7	1.1	0.5	11	Large dark reflector with shadow and associated with a small magnetic anomaly. Possibly also associated with a small surrounding debris field, though this is uncertain. Possible piece of partially ferrous debris.	6532	-
7203	Recorded Obstruction	340507	5707713	A3	-	-	-	-	Previously recorded obstruction not identified by any of the geophysical equipment. Probably originally represented a natural/ephemeral feature.	-	12924 (UKHO)
7204	Debris	340512	5707683	A2	2.8	0.9	0.4	7	Dark reflector with shadow and associated with a small but distinct magnetic anomaly. Possible piece of ferrous debris.	6531	-
7205	Magnetic	340439	5707568	A2	-	-	-	12	Part of a large, complex magnetic anomaly with 7206, without an associated sidescan sonar or multibeam bathymetry anomaly. Could be an area of buried ferrous debris or a natural feature.	6529	-
7206	Magnetic	340518	5707547	A2	-	-	-	12	Part of a large, complex magnetic anomaly with 7205, without an associated sidescan sonar or multibeam bathymetry anomaly. Could be an area of buried ferrous debris or a natural feature.	6528	-
7207	Recorded Obstruction	340666	5707647	A3	-	-	-	-	Previously recorded obstruction present of the Admiralty Chart but not identified by any of the geophysical equipment. Probably originally represented a natural/ephemeral feature.	-	13186 (UKHO), 831879 (NMR), 681 (PLA)
7208	Debris	340682	5707579	A2	19.0	0.5	0.0	-	Straight, right angled dark reflector without a shadow or associated magnetic anomaly. Possible non-ferrous debris or partially buried structure.	6527	8007 (Strike Report)
7209	Debris Field	340662	5707493	A1	58.8	6.3	0.0	50	Area of curvilinear dark reflectors, generally without shadows, located at the edge of the dredged channel. Associated with a distinct magnetic anomaly and a large, partially infilled, scour identified cutting into the edge of the channel on the multibeam bathymetry data. Scour measures approximately 130m x 26m x 4m and contains sand ripples. Possible ferrous debris or partially buried structure, or the remains of a marker buoy mooring point.	6525	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7210	Magnetic	340881	5707455	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6522	-
7211	Magnetic	340849	5707670	A2	-	-	-	43	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6521	-
7212	Magnetic	340857	5707713	A2	-	-	-	9	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6520	-
7213	Dark Reflector	340949	5707727	A2	3.1	1.6	0.0	-	Two adjacent, approximately equal sized, dark reflectors with shadows but without an associated magnetic anomaly. Could be natural or piece of non-ferrous debris.	6518	-
7214	Debris	340988	5707677	A2	10.1	0.1	0.2	-	Linear alignment of three elongate dark reflectors with shadows, but no associated magnetic anomaly. Possibly all part of the same piece of partially buried non-ferrous debris.	6517	-
7215	Magnetic	341067	5707575	A2	-	-	-	5	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6515	8007 (Strike Report)
7216	Magnetic	341115	5707605	A2	-	-	-	11	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6514	-
7217	Dark Reflector	341025	5707375	A2	3.3	1.5	0.4	-	Irregular dark reflector, or small group of dark reflectors, with no shadow or associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6512	-
7218	Magnetic	341294	5707559	A2	-	-	-	14	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6508	8007 (Strike Report)
7219	Magnetic	341356	5707625	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6507	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7220	Rope / Chain	341340	5707668	A2	20.0	0.6	0.1	-	Intermittent curvilinear dark reflector without a shadow or associated magnetic anomaly. Possibly a length of rope or chain.	6505	-
7221	Debris	341415	5707649	A2	2.3	0.9	0.0	-	Irregular dark reflector, or small group of dark reflectors, with no shadow or associated magnetic anomaly. Possible piece of non-ferrous debris.	6504	-
7222	Debris	341512	5707586	A2	1.8	0.5	0.6	-	Irregular dark reflector with shadow and scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6502	8002 (Strike Report)
7223	Debris	341478	5707574	A2	3.9	0.7	0.5	-	Elongate dark reflector with shadow and small scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomaly 7224.	6501	-
7224	Debris	341484	5707573	A2	2.8	1.0	0.3	-	Elongate dark reflector with shadow and small scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomaly 7223.	6500	8002 (Strike Report)
7225	Dark Reflector	341462	5707570	A2	1.8	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris..	6499	-
7226	Dark Reflector	341512	5707547	A2	0.6	0.3	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris..	6498	-
7227	Dark Reflector	341405	5707526	A2	1.6	1.5	0.4	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris..	6496	8007 (Strike Report)
7228	Magnetic	341492	5707515	A2	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6494	8007 (Strike Report)
7229	Debris Field	341526	5707512	A2	27.1	35.3	0.0	32	Area of dark reflectors with shadows, associated with a complex but distinct magnetic anomaly. Possibly a scatter of ferrous debris.	6493	8007 (Strike Report)
7230	Dark Reflector	341571	5707465	A2	1.7	0.4	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6490	8008 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7231	Debris	341568	5707411	A2	1.2	0.2	0.5	9	Dark reflector with shadow and small associated magnetic anomaly. Possible piece of ferrous debris.	6489	8008 (Strike Report)
7232	Debris Field	341616	5707391	A2	19.9	4.4	0.0	-	Small area of irregular dark reflectors with small shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris.	6488	8008 (Strike Report)
7233	Debris	341687	5707460	A2	6.4	3.0	0.0	-	Poorly defined linear dark reflector without a shadow or associated magnetic anomaly, arranged in a circle. Possible piece of non-ferrous debris.	6487	8007, 8008 (Strike Report)
7234	Debris Field	341732	5707421	A2	41.2	7.2	0.3	-	Strong, elongate dark reflector with shadow associated with a scour containing numerous small irregular dark reflectors. No associated magnetic anomaly, but possibly a scatter of non-ferrous debris.	6484	8007 (Strike Report)
7235	Magnetic	341764	5707375	A2	-	-	-	5	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6483	-
7236	Dark Reflector	341812	5707421	A2	1.7	0.5	0.6	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6481	8007 (Strike Report)
7237	Dark Reflector	341831	5707399	A2	2.2	0.6	0.5	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6480	8007 (Strike Report)
7238	Debris	341827	5707601	O1	1.7	0.4	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Possible debris related to the remains of the "Iron Bar Wreck" (7245). Located outside of the current geophysical study area.	6479	12917 (UKHO), 800540 (NMR), 686 (PLA)
7239	Debris	341804	5707594	O1	1.1	0.5	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Possible debris related to the remains of the "Iron Bar Wreck" (7245). Located outside of the current geophysical study area.	6478	12917 (UKHO), 800540 (NMR), 686 (PLA)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7240	Debris Field	341776	5707563	O1	20.8	12.5	0.0	-	Scatter of irregular dark reflectors with small shadows, including short curvilinear dark reflectors, but without an associated magnetic anomaly. Probably a debris field relating to the remains of the unnamed "Iron Bar Wreck" (7245). Located outside of the current geophysical study area.	6477	12917 (UKHO), 800540 (NMR), 686 (PLA)
7241	Debris Field	341824	5707523	A1	10.5	10.2	0.0	13	Small scatter of irregular, poorly defined dark reflectors, associated with a small magnetic anomaly. Possibly ferrous debris relating to the remains of the "Iron Bar Wreck" (7245).	6476	12917 (UKHO), 800540 (NMR), 686 (PLA)
7242	Debris	341841	5707521	A1	1.0	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Possible debris related to the remains of the "Iron Bar Wreck" (7245).	6475	12917 (UKHO), 800540 (NMR), 686 (PLA)
7243	Debris	341852	5707534	A1	5.2	4.8	0.0	-	Distinct dark and bright reflector with small scour but without an associated magnetic anomaly. Possible debris relating to the remains of the nearby "Iron Bar Wreck" (7245)	6474	12917 (UKHO), 800540 (NMR), 686 (PLA)
7244	Debris Field	341885	5707526	A1	16.9	9.5	0.0	-	Small scatter of irregular, poorly defined dark reflectors, possibly associated with a small magnetic anomaly but this is uncertain. Possibly a debris field relating to the remains of the "Iron Bar Wreck" (7245).	6473	12917 (UKHO), 800540 (NMR), 686 (PLA)
7245	Wreck	341910	5707549	O1	17.0	10.6	1.0	13	Location of the unnamed "Iron Bar Wreck", marked as an obstruction on the admiralty charts. Although mainly comprising a scatter of debris over a wide area (numerous examples in the vicinity), a small, isolated mound identified on the multibeam bathymetry data indicate this could be the central location of anything that remains of the structure. Only a small mound and area of poorly defined debris were identified on the sidescan sonar, though a small magnetic anomaly suggests the presence of ferrous debris at this point. Located outside of the current geophysical study area.	6471	12917 (UKHO), 800540 (NMR), 686 (PLA)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7246	Debris Field	341993	5707568	O1	19.1	4.3	0.0	-	Scatter of irregular dark reflectors with small shadows, including short curvilinear dark reflectors, but without an associated magnetic anomaly. Probably a debris field relating to the remains of the unnamed "Iron Bar Wreck" (7245). Located outside of the current geophysical study area.	6470	12917 (UKHO), 800540 (NMR), 686 (PLA)
7247	Debris Field	341971	5707502	A1	30.7	7.3	0.0	-	Scatter of irregular dark reflectors with small shadows, including short curvilinear dark reflectors, but without an associated magnetic anomaly. Probably a debris field relating to the remains of the unnamed "Iron Bar Wreck" (7245).	6469	12917 (UKHO), 800540 (NMR), 686 (PLA)
7248	Magnetic	341967	5707440	A2	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6468	8022 (Strike Report)
7249	Magnetic	341964	5707398	A2	-	-	-	24	Complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of buried ferrous debris.	6467	8008 (Strike Report)
7250	Dark Reflector	341965	5707361	A2	1.8	0.6	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6466	8007 (Strike Report)
7251	Dark Reflector	341964	5707234	A2	1.0	0.6	0.3	-	Two adjacent, approximately equal sized, dark reflectors with shadows but without an associated magnetic anomaly. Could be natural or piece of non-ferrous debris.	6462	-
7252	Magnetic	342061	5707370	A2	-	-	-	9	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6461	8008 (Strike Report)
7253	Debris	342184	5707476	O1	16.5	0.4	0.5	17	Straight, linear dark reflector with shadow and associated with a small magnetic anomaly. Possible piece of linear ferrous debris or a partially buried structure. Located outside of the current geophysical study area.	6458	-
7254	Debris Field	342184	5707424	A1	26.4	3.3	0.0	6	Dark reflector with shadow and an area of seafloor disturbance, associated with a small magnetic anomaly. Possibly a partially buried scatter of ferrous debris.	6456	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7255	Debris	342205	5707415	A1	1.9	1.5	0.0	-	Small, poorly defined square dark reflector without a shadow or associated magnetic anomaly, but with possible structure. Possible piece of non-ferrous debris. Located close to debris field 7257.	6455	-
7256	Rope / Chain	342221	5707423	A1	31.1	0.2	0.1	-	Curvilinear dark reflector with a small shadow but without an associated magnetic anomaly. Possible length of rope or chain. Located close to debris field 7257.	6454	-
7257	Debris Field	342223	5707441	A1	41.0	10.3	0.0	-	Debris field comprising a number of curvilinear dark reflectors (probably ropes/chains) and a number of small, irregular dark reflectors with shadows. No associated magnetic anomaly, so debris is probably non-ferrous in nature. Could be surface debris, or represent a partially buried structure.	6453	-
7258	Rope / Chain	342250	5707416	A1	20.0	0.3	0.0	-	Curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible length of rope or chain. Located close to debris field 7257.	6452	-
7259	Debris Field	342263	5707433	A1	10.0	2.4	0.0	-	Small area of irregular dark reflectors with shadows but no associated magnetic anomaly. Possible scatter of non-ferrous debris. Located close to debris field 7257.	6451	-
7260	Debris Field	342476	5707403	O1	29.8	11.0	0.0	16	Area of irregular dark reflectors with shadows, including a number of curvilinear dark reflectors. Associated with a small magnetic anomaly, probably a scatter of partially ferrous debris. Located outside of the current geophysical study area.	6447	-
7261	Magnetic	342280	5707317	A2	-	-	-	16	Small, complex but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6445	8007 (Strike Report)
7262	Debris	342359	5707314	A1	5.0	0.7	0.3	93	Indistinct, elongate dark reflector with small shadow, associated with a large magnetic anomaly. Possible piece of ferrous debris.	6444	8022 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7263	Debris Field	342358	5707305	A1	4.3	5.8	0.0	93	Area of distinct, irregular dark reflectors and a larger, curvilinear dark reflector. Associated with a large magnetic anomaly and possibly a scatter of ferrous debris or partially buried structure.	6443	8007 (Strike Report)
7264	Debris	342364	5707297	A1	0.7	0.4	0.2	93	Indistinct, irregular dark reflector with small shadow, associated with a large magnetic anomaly. Possible piece of ferrous debris.	6442	8007 (Strike Report)
7265	Debris	342429	5707269	A2	3.1	0.2	0.2	-	Short, linear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris..	6441	8007 (Strike Report)
7266	Debris	342361	5707273	A2	1.6	0.7	0.1	-	Dark reflector with shadow and possible associated magnetic anomaly, though this is unclear. Possible piece of debris. Located close to similar anomalies 7267 and 7268, and a possible ferrous debris field 7263.	6440	8007, 8008 (Strike Report)
7267	Debris	342332	5707278	A2	1.1	1.1	0.3	-	Dark reflector with shadow and possible associated magnetic anomaly, though this is unclear. Possible piece of debris. Located close to similar anomalies 7266 and 7268, and a possible ferrous debris field 7263.	6439	8007, 8008 (Strike Report)
7268	Debris	342302	5707278	A2	1.7	0.6	0.3	33	Dark reflector with shadow and associated with a distinct magnetic anomaly. Possible piece of ferrous debris. Located close to similar anomalies 7266 and 7267, and a possible ferrous debris field 7263.	6438	8007 (Strike Report)
7269	Dark Reflector	342190	5707285	A2	2.7	0.7	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6437	8007 (Strike Report)
7270	Dark Reflector	342241	5707275	A2	0.9	0.6	0.0	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6436	8007 (Strike Report)
7271	Dark Reflector	342064	5707133	A2	1.5	0.4	0.2	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6434	8007 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7272	Dark Reflector	342234	5707110	A2	1.0	1.0	0.5	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6433	8007 (Strike Report)
7273	Dark Reflector	342325	5707056	A2	1.3	0.5	0.7	-	Dark reflector with large shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris.	6432	-
7274	Debris Field	342426	5707044	A1	30.1	5.4	0.0	41	Area of irregular, angular dark reflectors with shadows, associated with a complex but distinct 41nT magnetic anomaly. Possible ferrous debris field, or the remains of a degraded structure.	6431	-
7275	Debris	342524	5707070	A2	3.0	1.5	0.0	-	Small, irregular dark reflector without an associated magnetic anomaly. Possible piece of partially buried non-ferrous debris.	6430	8007 (Strike Report)
7276	Debris	342515	5707146	A2	0.8	0.6	0.1	-	Small, irregular dark reflector without an associated magnetic anomaly. Possible piece of partially buried non-ferrous debris.	6428	-
7277	Magnetic	342633	5707198	A2	-	-	-	20	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6426	-
7278	Dark Reflector	342630	5707167	A2	2.0	1.1	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6425	-
7279	Debris	342672	5707166	A2	1.0	0.9	0.2	-	Circular dark reflector with shadow but no associated magnetic anomaly. Possibly a piece of non-ferrous debris.	6424	-
7280	Debris	342698	5707158	A2	0.9	0.6	0.2	11	Round dark reflector with shadow and associated with an 11nT magnetic anomaly. Possible piece of ferrous debris.	6423	-
7281	Dark Reflector	342725	5707150	A2	0.8	0.7	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6422	8007 (Strike Report)
7282	Magnetic	342508	5707230	A2	-	-	-	13	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6420	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7283	Debris	342574	5707233	A1	1.7	0.1	0.1	91	Short, linear dark reflector with small shadow situated within a small depression or scour. Numerous indistinct, straight, linear features also identified within the vicinity. Associated with a large magnetic anomaly. Possible piece of ferrous debris, or a partially buried ferrous structure.	6419	-
7284	Debris	342607	5707233	A2	2.2	1.4	0.0	-	Poorly defined dark reflector without a shadow located within a small depression or scour. Possibly associated with a small magnetic anomaly, though this is uncertain. Possible piece of debris.	6418	-
7285	Debris	342622	5707246	A2	1.4	0.7	0.3	23	Small, circular dark reflector with shadow, possible structure, and associated with a 23nT magnetic anomaly. Possible piece of ferrous debris.	6417	-
7286	Dark Reflector	342647	5707268	A2	1.5	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6414	8022 (Strike Report)
7287	Debris	342653	5707269	A2	1.1	0.5	0.1	-	Elongate dark reflector with small shadow and scour, but no associated magnetic anomaly. Possibly a piece of non-ferrous debris.	6413	8022 (Strike Report)
7288	Dark Reflector	342685	5707266	A2	1.6	0.5	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6412	8022 (Strike Report)
7289	Magnetic	342556	5707380	O1	-	-	-	21	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris, possibly related to the wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6411	-
7290	Debris	342577	5707417	O1	2.6	0.7	0.1	-	Small elongate dark reflector without an associated magnetic anomaly. Possible piece of non-ferrous debris, possibly relating to the wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6410	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7291	Debris Field	342572	5707403	O1	10.1	9.2	0.0	-	Small scatter of irregular dark reflectors without an associated magnetic anomaly. Possible scatter of non-ferrous debris, possibly relating to the wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6409	-
7292	Dark Reflector	342565	5707364	A2	0.4	0.3	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6408	-
7293	Magnetic	342610	5707319	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6406	-
7294	Debris	342624	5707337	A1	6.6	1.9	0.0	-	Irregular dark reflector without a shadow or associated magnetic anomaly. Possibly a piece of non-ferrous debris, possibly related to the wreck of the <i>London</i> (Site 2).	6405	-
7295	Debris Field	342650	5707397	O1	26.7	27.1	0.0	-	Scatter of irregular dark reflectors next to the wreck of the <i>London</i> (Site 2). Probably a debris field related to the wreck. Located outside of the current geophysical study area.	6403	12905 (UKHO), 908041 (NMR)
7296	Wreck	342683	5707378	O1	21.8	8.4	1.1	24	Known wreck location of the <i>London</i> (Site 2), actually two separate vessels located side by side. Appears upright and with some structure, though some identified debris around the site indicates a certain amount of break-up. Identified by all geophysical equipment, and found to have a relatively small magnetic anomaly. Orientated approximately NE-SW. Located outside of the current geophysical study area.	6402	12905 (UKHO), 908041 (NMR)
7297	Debris	342717	5707391	O1	7.5	2.4	0.0	-	Irregular dark reflector without a definite shadow or associated magnetic anomaly. Possible piece of non-ferrous debris, possibly from the nearby wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6401	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7298	Debris	342727	5707379	O1	1.9	1.1	0.0	-	Short, linear dark reflector without a shadow or associated magnetic anomaly. Possible piece of partially buried non-ferrous debris, possibly associated with the nearby wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6400	-
7299	Debris	342735	5707369	O1	1.3	0.7	0.0	-	Short, linear dark reflector without a shadow or associated magnetic anomaly. Possible piece of partially buried non-ferrous debris, possibly associated with the nearby wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6399	-
7300	Debris	342716	5707341	O1	4.5	2.2	0.0	-	Irregular dark reflector without a definite shadow or associated magnetic anomaly. Possible piece of non-ferrous debris, possibly from the nearby wreck of the <i>London</i> (Site 2). Located outside of the current geophysical study area.	6398	-
7301	Debris	342793	5707309	A2	0.9	0.2	0.0	-	Small, dark reflector with two parallel, curvilinear dark reflectors extending from it. Possible piece of non-ferrous debris.	6397	-
7302	Magnetic	342808	5707250	A2	-	-	-	18	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible piece of small buried ferrous debris.	6392	8022 (Strike Report)
7303	Dark Reflector	342788	5707053	A2	3.7	3.3	0.3	-	Poorly defined dark reflector with shadow but no associated magnetic anomaly. Could be natural or a piece of non-ferrous debris. Located close to mound feature 7304.	6391	8008 (Strike Report)
7304	Mound	342838	5707058	A2	32.9	5.4	0.2	-	Poorly defined, long, low mound without an associated magnetic anomaly. Could be a natural seabed feature, be created by debris, or represent buried non-ferrous debris or structure.	6390	8008 (Strike Report)
7305	Dark Reflector	342821	5707161	A2	1.4	0.6	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and could be related non-ferrous debris or natural.	6387	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7306	Debris	342822	5707170	A2	13.8	0.2	0.2	-	Curvilinear dark reflector with small shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and possibly a piece of non-ferrous debris or partially buried structure.	6386	-
7307	Debris	342910	5707156	A2	24.0	0.3	0.1	-	Straight, linear dark reflector with small shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and possibly a piece of non-ferrous debris or partially buried structure.	6384	-
7308	Dark Reflector	342895	5707143	A2	1.3	1.0	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and could be related non-ferrous debris or natural.	6383	-
7309	Dark Reflector	342901	5707138	A2	3.4	2.0	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and could be related non-ferrous debris or natural.	6382	-
7310	Dark Reflector	342896	5707129	A2	0.8	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and could be related non-ferrous debris or natural.	6381	-
7311	Dark Reflector	342913	5707123	A2	1.4	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 4 Marker Buoy, and could be related non-ferrous debris or natural.	6380	-
7312	Debris	342949	5707124	A2	3.4	1.0	0.3	12	Irregular dark reflector with shadow, possibly associated with a 12nT magnetic anomaly. Possible piece of ferrous debris.	6379	-
7313	Debris	342984	5707121	A2	2.2	0.9	0.5	8	Irregular dark reflector with shadow, possibly associated with an 8nT magnetic anomaly. Possible piece of ferrous debris.	6378	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7314	Debris	343018	5707091	A2	1.5	0.9	0.5	-	Irregular dark reflector with shadow and small scour, but without an associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomaly 7315.	6377	-
7315	Debris	343031	5707088	A2	3.0	0.6	0.4	12	Irregular dark reflector with shadow, possibly associated with a 12nT magnetic anomaly. Possible piece of ferrous debris. Located close to similar anomaly 7314.	6376	-
7316	Debris	343076	5707065	A2	2.7	0.8	0.4	-	Distinct, irregular dark reflector with large shadow and scour but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6375	8007 (Strike Report)
7317	Magnetic	343068	5707135	A2	-	-	-	13	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6374	-
7318	Magnetic	343008	5707146	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible small piece of buried ferrous debris.	6373	-
7319	Debris	343074	5707160	A2	1.7	0.9	0.5	-	Irregular dark reflector with shadow and scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6372	8022 (Strike Report)
7320	Rope / Chain	343140	5707211	A2	20.1	0.4	0.1	-	Curvilinear dark reflector with small shadow but no associated magnetic anomaly. Possible length of rope or chain.	6369	-
7321	Debris Field	343190	5707275	O1	29.2	7.9	0.0	-	Area of curvilinear dark reflectors without shadows or an associated magnetic anomaly. Possible scatter of non-ferrous debris, possibly related to the wreck of the <i>London</i> located approximately 115m away. Located outside of the current geophysical study area.	6368	13169 (UKHO), 908042 (NMR)
7322	Debris	343318	5707150	A2	2.5	0.9	0.2	4	Distinct dark reflector with shadow, located in a small depression and possibly associated with a very small magnetic anomaly. Possible piece of ferrous debris.	6363	8008 (Strike Report)

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7323	Magnetic	343164	5707107	A2	-	-	-	20	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates a small piece of buried ferrous debris.	6362	-
7324	Debris	343200	5707086	A2	3.0	0.3	0.0	-	Short, straight, linear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6360	8009 - 8018 (Strike Report)
7325	Debris	343246	5707062	A2	1.3	1.0	0.2	10	Angular dark reflector with shadow, possibly associated with a 10nT magnetic anomaly, though this is located 20m away so is uncertain. Possible piece of debris.	6359	8007 (Strike Report)
7326	Debris	343271	5706990	A2	1.8	1.8	0.0	-	Distinct dark reflector without a shadow or associated magnetic anomaly, but with a small scour. Possible piece of non-ferrous debris.	6357	-
7327	Debris	343125	5706877	A2	2.2	3.2	0.7	-	Large, distinct dark reflector with large shadow and small scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6355	-
7328	Magnetic	343254	5706840	A2	-	-	-	5	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates a small piece of buried ferrous debris.	6354	-
7329	Debris Field	343447	5707143	A2	6.4	3.7	0.0	-	Small area of irregular, possible curvilinear dark reflectors without an associated magnetic anomaly. Possible small area of non-ferrous debris.	6350	-
7330	Debris	343503	5707118	A2	4.1	5.5	0.0	-	Poorly defined dark reflector within an area of seafloor disturbance and a roughly circular depression, similar to anomaly 7332. No associated magnetic anomaly. Possible piece of non-ferrous debris.	6349	-
7331	Rope / Chain	343569	5707129	A2	10.5	0.1	0.0	-	Intermittent curvilinear dark reflector without a shadow, possibly associated with a magnetic anomaly though this is uncertain. Possible length of partially buried rope or chain.	6347	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7332	Debris	343592	5707106	A2	4.0	6.6	0.0	19	Poorly defined dark reflector within an area of seafloor disturbance and a roughly circular depression. Possibly associated with a 19nT magnetic anomaly, though this is located approximately 20m away and is uncertain. Possible piece of ferrous debris.	6346	-
7333	Dark Reflector	343521	5706941	A2	2.0	0.3	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6343	-
7334	Debris	343419	5706885	A2	3.1	1.3	0.5	-	Large, distinct dark reflector with shadow and small associated scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6342	8008 (Strike Report)
7335	Dark Reflector	343471	5706896	A2	1.7	0.8	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6341	-
7336	Debris	343496	5706880	A2	2.3	1.2	0.0	-	Poorly defined, elongate dark reflector with possible structure and small scour. Not associated with a magnetic anomaly. Possible piece of non-ferrous debris.	6340	-
7337	Dark Reflector	343727	5707077	A2	0.7	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6333	-
7338	Debris	343735	5707065	A2	1.8	0.8	0.1	-	Dark reflector with small shadow and possible structure, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6332	-
7339	Debris Field	343763	5707059	A2	6.5	4.4	0.0	-	Small debris field comprising at least two dark reflectors and a short, curvilinear dark reflector. No strong shadows identified, and not associated with a magnetic anomaly so probably non-ferrous in nature.	6331	-
7340	Magnetic	343889	5707015	A2	-	-	-	40	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a piece of buried ferrous debris.	6330	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7341	Magnetic	343859	5707026	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly a small piece of buried ferrous debris.	6329	-
7342	Debris	344017	5707003	A2	1.2	0.4	0.0	47	Dark reflector with shadow and small scour, possibly associated with a 47nT magnetic anomaly, though this is located 20m away and is uncertain. Located close to similar anomaly 7343. Possible piece of ferrous debris.	6325	-
7343	Debris	344030	5706997	A2	0.7	0.2	0.3	47	Dark reflector with shadow and small scour, possibly associated with a 47nT magnetic anomaly, though this is located 25m away and is uncertain. Located close to similar anomaly 7342. Possible piece of ferrous debris.	6324	-
7344	Debris	344067	5707011	A2	5.4	3.0	0.0	6	Small scatter of small dark reflectors with shadows, possibly associated with a small magnetic anomaly. Possible debris field comprising partially ferrous debris.	6323	-
7345	Debris	344075	5706893	A2	1.6	0.5	0.3	6	Dark reflector with shadow and associated small scour. Associated with a small but distinct magnetic anomaly. Possible piece of ferrous debris.	6322	-
7346	Debris	343985	5706874	A2	1.4	0.5	0.2	8	Dark reflector with shadow and possibly associated with a small magnetic anomaly. Possible piece of ferrous debris.	6321	8007 (Strike Report)
7347	Dark Reflector	344066	5706852	A2	1.5	0.6	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6320	-
7348	Debris	344081	5706807	A2	5.3	0.4	0.6	-	Elongate dark reflector with large shadow but no associated magnetic anomaly, possible piece of non-ferrous debris.	6319	8007 (Strike Report)
7349	Debris Field	344110	5706807	A2	6.9	3.7	0.0	5	Small scatter of small dark reflectors with shadows, possibly associated with a small magnetic anomaly. Possible debris field comprising partially ferrous debris.	6318	8008 (Strike Report)
7350	Debris	344017	5706667	A2	5.9	1.2	0.4	17	Large, irregular dark reflector with shadow and possible structure, located within a small depression. Associated with a 17nT magnetic anomaly. Possible piece of ferrous debris.	6316	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7351	Recorded Obstruction	344256	5706638	A3	-	-	-	-	Recorded location of an unnamed "Brick Barge". Not identified by any of the geophysical equipment, and probably cleared from this location.	-	12886 (UKHO), 8007 (Strike Report)
7352	Magnetic	344248	5706603	A2	-	-	-	7	Small possible magnetic anomaly without an associated sidescan sonar or multibeam bathymetry anomaly. Could be a natural feature or indicate the presence of a small piece of buried ferrous debris.	6313	-
7353	Magnetic	344439	5706548	A2	-	-	-	11	Small possible magnetic anomaly without an associated sidescan sonar or multibeam bathymetry anomaly. Could be a natural feature or indicate the presence of a small piece of buried ferrous debris.	6311	-
7354	Debris	344454	5706913	A2	22.9	0.2	0.2	26	Strong, linear dark reflector with small shadow and associated with a 26nT magnetic anomaly. Possible piece of ferrous debris, or a partially buried ferrous structure.	6307	-
7355	Debris	344621	5706878	A2	2.4	1.3	0.2	-	Irregular dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6305	-
7356	Rope / Chain	344610	5706864	A2	19.8	0.2	0.1	-	Curvilinear dark reflector with small shadow but no associated magnetic anomaly. Possible length of rope or chain.	6304	-
7357	Debris	344686	5706844	A2	1.7	1.1	0.4	-	Distinct dark reflector with shadow and scour, but without a definitive associated magnetic anomaly. Possible piece of non-ferrous debris, possibly related to contact 7360.	6303	-
7358	Debris	344706	5706861	O1	0.6	0.2	0.1	110	Small dark reflector with shadow located within a depression. Possibly associated with contact 7360 and the corresponding large magnetic anomaly. Possible ferrous debris, possibly indicative of a buried ferrous structure. Located outside of the current geophysical study area.	6302	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7359	Debris	344736	5706855	O1	1.4	0.3	0.2	110	Dark reflector with shadow associated with contact 7360 and a large magnetic anomaly. Possible piece of ferrous debris, possibly indicative of the presence of a buried ferrous structure. Located outside of the current geophysical study area.	6301	-
7360	Rope / Chain	344743	5706852	O1	24.1	0.1	0.1	110	Curvilinear dark reflector with small shadow and associated with a large magnetic anomaly. Probably a length of rope or chain, possibly indicative of a buried ferrous structure. Located outside of the current geophysical study area.	6300	-
7361	Debris	344808	5706824	A2	1.3	1.3	0.1	-	Irregular dark reflector, or small group of dark reflectors, with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6299	-
7362	Dark Reflector	344437	5706783	A2	3.9	0.4	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6297	8009 - 8018 (Strike Report)
7363	Debris	344488	5706750	A2	2.1	1.0	0.4	5	Large dark reflector with large shadow and a small associated magnetic anomaly. Possible piece of ferrous debris.	6296	-
7364	Dark Reflector	344553	5706754	A2	1.2	0.5	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6295	-
7365	Debris	344671	5706712	A2	2.7	1.0	0.4	-	Large, distinct dark reflector with shadow and small associated scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6293	-
7366	Dark Reflector	344700	5706510	A2	1.8	0.7	0.8	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6290	8009 - 8018 (Strike Report)
7367	Magnetic	345108	5706688	A2	-	-	-	14	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6286	8008, 8009 - 8018 (Strike Report)

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7368	Debris Field	345182	5706590	A2	26.1	5.7	0.0	17	Scatter of dark reflectors with shadows, associated with a small but distinct magnetic anomaly. Possible debris field, at least partially ferrous in nature.	6283	8004, 8009 - 8019, 8020 (Strike Report)
7369	Debris	345232	5706559	A2	4.6	1.5	0.0	-	Irregular, poorly defined, elongate dark reflector with associated scour, but no shadow or associated magnetic anomaly. Possible piece of partially buried non-ferrous debris.	6282	8003 (Strike Report)
7370	Dark Reflector	345273	5706579	A2	0.5	0.2	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6281	-
7371	Debris	345279	5706580	A2	1.6	0.7	0.5	-	Irregular dark reflector with large shadow but no associated magnetic anomaly, possible piece of non-ferrous debris.	6280	-
7372	Rope / Chain	345284	5706589	A2	6.4	0.1	0.1	-	Short, linear dark reflector with small shadow but no associated magnetic anomaly. Possible length of rope or chain.	6279	8004, 8009 - 8019 (Strike Report)
7373	Debris	345339	5706590	A2	1.9	0.5	0.4	-	Distinct, irregular dark reflector with large shadow but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6278	8009 - 8018 (Strike Report)
7374	Dark Reflector	345348	5706549	A2	1.7	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6277	8003 (Strike Report)
7375	Debris	345377	5706531	A2	2.4	1.0	0.5	-	Large, irregular dark reflector with large shadow but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6276	8009 - 8018 (Strike Report)
7376	Debris	345406	5706529	A2	0.6	0.4	0.2	-	Small but irregular, angular dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6275	8009 - 8018 (Strike Report)
7377	Dark Reflector	345413	5706561	A2	1.7	0.2	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6274	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7378	Magnetic	345058	5706440	A2	-	-	-	18	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6271	8009 - 8018 (Strike Report)
7379	Magnetic	345241	5706395	A2	-	-	-	8	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6270	-
7380	Magnetic	345125	5706475	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6269	8008, 8004 (Strike Report)
7381	Magnetic	345384	5706451	A2	-	-	-	31	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a piece of buried ferrous debris.	6268	8004 (Strike Report)
7382	Dark Reflector	345349	5706384	A2	1.7	0.9	0.2	12	Small dark reflector with shadow, possibly associated with a small magnetic anomaly though this is uncertain. Could be natural or a piece of debris.	6266	-
7383	Recorded Obstruction	345456	5706383	A3	-	-	-	-	Previously recorded obstruction, found to be a length of cable by divers, Not identified by any of the geophysical equipment, so is probably buried or has been removed.	-	13374 (UKHO), 785 (PLA), 8004 (Strike Report)
7384	Debris	345396	5706364	A2	2.5	1.0	0.5	-	Large, distinct dark reflector with shadow and small associated scour, but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6264	-
7385	Dark Reflector	345577	5706693	A2	1.6	0.3	0.3	-	Dark reflector with shadow but no associated magnetic anomaly, located at the edge of the dredged channel. Could be caused by dredging or a piece of non-ferrous debris.	6260	-
7386	Debris	345517	5706540	A2	2.4	2.2	0.3	-	Irregular, angular dark reflector with shadow and small scour but no associated magnetic anomaly. Possible piece of non-ferrous debris, possibly associated with the Sea Reach 3 Marker Buoy.	6259	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7387	Dark Reflector	345553	5706539	A2	1.4	0.8	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Located in the area of the Sea Reach 3 Marker Buoy, and could be a natural feature or a piece of non-ferrous debris.	6258	-
7388	Dark Reflector	345559	5706532	A2	1.0	0.3	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Located in the area of the Sea Reach 3 Marker Buoy, and could be a natural feature or a piece of non-ferrous debris.	6257	-
7389	Rope / Chain	345569	5706505	A2	13.9	0.1	0.0	-	Curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible length of rope or chain.	6255	8003 (Strike Report)
7390	Dark Reflector	345594	5706521	A2	2.0	0.6	0.4	-	Small dark reflector with shadow but no associated magnetic anomaly. Located in the area of the Sea Reach 3 Marker Buoy, and could be a natural feature or a piece of non-ferrous debris.	6254	8009 - 8018 (Strike Report)
7391	Dark Reflector	345631	5706547	A2	1.5	0.2	0.3	-	Small dark reflector with shadow but no associated magnetic anomaly. Located in the area of the Sea Reach 3 Marker Buoy, and could be a natural feature or a piece of non-ferrous debris.	6253	-
7392	Magnetic	345504	5706353	A2	-	-	-	52	Very distinct magnetic anomaly, though only identified on one survey line and not on a second line that crosses close by. Possible piece of ferrous debris, though could be noise created due to turning at the end of line.	6250	8004 (Strike Report)
7393	Magnetic	345658	5706427	A2	-	-	-	8	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6249	8009 - 8018 (Strike Report)
7394	Magnetic	345669	5706388	A2	-	-	-	9	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Identified on two survey lines, and possibly indicates the presence of a small piece of buried ferrous debris.	6248	8006, 8007 (Strike Report)
7395	Rope / Chain	345618	5706348	A2	16.0	0.2	0.0	-	Short, curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible short length of rope or chain.	6246	8009 - 8018 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7396	Dark Reflector	345800	5706336	A2	0.6	0.4	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6239	8004 (Strike Report)
7397	Dark Reflector	345785	5706336	A2	1.5	0.6	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6238	8004 (Strike Report)
7398	Debris Field	345809	5706507	A2	11.3	3.6	0.3	-	Small area of dark reflectors with shadows, less than 0.5m in height, but without an associated magnetic anomaly. Possible small field of non-ferrous debris, though could have been created by dredging..	6237	-
7399	Dark Reflector	346028	5706313	A2	1.6	0.2	0.3	-	Dark reflector with shadow but no associated magnetic anomaly, located at the edge of the dredged channel, and could be a piece of non-ferrous debris or a natural feature.	6236	8004 (Strike Report)
7400	Dark Reflector	345834	5706508	A2	1.2	0.8	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6236	-
7401	Dark Reflector	345784	5706513	A2	2.4	0.9	0.6	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6235	-
7402	Dark Reflector	345823	5706537	A2	1.6	1.8	0.2	-	Dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6234	8009 - 8018 (Strike Report)
7403	Recorded Obstruction	345874	5706528	A3	-	-	-	-	Site of a previously recorded obstruction not identified by any of the geophysical equipment. Obstruction has been previously cleared from this location.	-	12881 (UKH), 766 (PLA)
7404	Recorded Wreck	346142	5706458	A3	-	-	-	-	Site of a previously recorded wreck (<i>Aqueity</i>) not identified by any of the geophysical equipment. Recorded as dead and probably previously cleared from this location.	-	12878 (UKHO)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7405	Dark Reflector	346246	5706331	A2	1.3	0.4	0.2	-	Dark reflector with shadow but no associated magnetic anomaly, located at the edge of the dredged channel, and could be a piece of non-ferrous debris or a natural feature.	6233	8003 (Strike Report)
7406	Magnetic	346279	5706335	A2	-	-	-	5	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Located near 7405, but probably not related. Possibly indicates a small piece of buried ferrous debris.	6232	8009 - 8018 (Strike Report)
7407	Debris Field	345919	5706878	O1	23.8	2.6	0.0	263	Area of irregular, angular dark reflectors and disturbed seabed. Possibly associated with a very large magnetic anomaly, though this is located approximately 50m away. Possible partially buried ferrous structure. Located outside of the current geophysical study area.	6232	-
7408	Magnetic	346173	5706620	A2	-	-	-	60	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Indicates the presence of a large piece of buried ferrous debris or small ferrous structure.	6231	-
7409	Recorded Wreck	346221	5706517	A3	-	-	-	-	Site of a previously recorded wreck (<i>Motor Torpedo Boat No. 106</i>) not identified by any of the geophysical equipment. Recorded as dead and probably previously cleared from this location.	-	12882 (UKHO)
7410	Debris	346318	5706633	A2	1.8	0.5	0.3	13	Poorly defined, rectangular dark reflector with shadow and small scour. Associated with a 13nT magnetic anomaly. Possible piece of ferrous debris.	6229	-
7411	Debris	346456	5706470	A2	2.0	1.7	0.5	26	Strong, possibly circular, dark reflector with shadow and possible structure. Associated with a 26nT magnetic anomaly. Probable piece of ferrous debris.	6226	8008, 8009 - 8018 (Strike Report)
7412	Debris	346579	5706310	A2	5.1	0.3	0.2	-	Short, linear dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to other possible debris 7413 and 7414. Possibly related to the nearby "Pottery Wreck" (7415).	6225	8004, 8009 - 8018 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7413	Debris	346563	5706312	A2	1.1	0.4	0.3	-	Strong dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to other possible debris 7412 and 7414. Possibly related to the nearby "Pottery Wreck" (7415).	6224	8004, 8009 - 8018 (Strike Report)
7414	Debris	346594	5706320	A2	1.6	0.2	0.5	-	Strong dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to other possible debris 7412 and 7413. Possibly related to the nearby "Pottery Wreck" (7415).	6223	8004 (Strike Report)
7415	Wreck	346626	5706282	O1	21.3	19.8	0.4	-	Area of irregular dark reflectors and seafloor disturbance but without an associated magnetic anomaly. Located at the site of a recorded but unnamed wreck ("Pottery Wreck") and probably the partially buried remains of this structure. Located outside of the current geophysical study area.	6222	58249 (UKHO), 793 (PLA)
7416	Magnetic	346599	5706425	A2	-	-	-	31	Part of a complex magnetic anomaly including the signal from a passing vessel. This part appears to be superimposed upon the passing vessel signature. No associated sidescan sonar or multibeam bathymetry anomaly, and possibly represents a piece of buried ferrous debris.	6220	8009 - 8018, 8020 (Strike Report)
7417	Debris	346531	5706623	A2	1.2	0.3	0.3	-	Dark reflector with shadow and possible small scour but without an associated magnetic anomaly. Possible piece of non-ferrous debris.	6219	-
7418	Magnetic	346590	5706625	A2	-	-	-	12	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6215	-
7419	Magnetic	346678	5706625	A2	-	-	-	15	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6214	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7420	Debris Field	346852	5706651	A2	27.6	14.4	0.0	-	Area of irregular dark reflectors without shadows or an associated magnetic anomaly. Possible small scatter of non-ferrous debris.	6211	-
7421	Magnetic	346728	5706665	A2	-	-	-	14	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6210	-
7422	Magnetic	347109	5706310	A2	-	-	-	96	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a large piece of buried ferrous debris or a small ferrous structure.	6205	8004 (Strike Report)
7423	Magnetic	347152	5706310	A2	-	-	-	50	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a large piece of buried ferrous debris.	6204	8004 (Strike Report)
7424	Debris	347093	5706471	A2	2.9	0.2	0.5	-	Strong, elongate dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris.	6201	8008, 8009 - 8018 (Strike Report)
7425	Magnetic	347055	5706636	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6200	8003, 8004, 8009 - 8018 (Strike Report)
7426	Magnetic	347342	5706320	A2	-	-	-	9	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Located near 6195 and 6196, but probably not related. Possible indicates the presence of a small piece of buried ferrous debris.	6197	-
7427	Debris	347371	5706337	A2	1.3	0.5	0.7	15	Dark reflector with shadow located in a small scour or depression, associated with a 15nT magnetic anomaly. Possible piece of ferrous debris. Located close to anomaly 7428 and possibly related.	6196	8004 (Strike Report)
7428	Debris	347386	5706338	A2	3.3	0.4	0.3	15	Elongate dark reflector with shadow and associated with a 15nT magnetic anomaly. Possible piece of ferrous debris. Located close to anomaly 7427, and possibly related.	6195	8004 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7429	Magnetic	347383	5706444	A1	-	-	-	108	Large, distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a large buried ferrous structure, but only identified on one survey line. Could have resulted from a passing vessel, though none noted on the survey logs.	6194	8006, 8009 - 8018 (Strike Report)
7430	Debris Field	347242	5706676	A1	5.3	5.7	0.0	-	Small area of dark reflectors with shadows, less than 0.5m in height, but without an associated magnetic anomaly. Possible small field of non-ferrous debris, possibly associated with a potential buried structure.	6193	-
7431	Debris	347262	5706692	O1	3.9	0.9	0.3	-	Large dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris, possibly associated with a potential partially buried structure. Located outside of the current geophysical study area.	6192	-
7432	Debris	347267	5706672	A1	0.9	0.3	0.2	-	Small, poorly defined dark reflector with a small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris, possibly relating to a potential buried structure.	6191	-
7433	Debris	347301	5706657	A1	1.9	0.8	0.4	179	Dark reflector with shadow and possibly associated with a large magnetic anomaly. Possible ferrous debris, possibly related to a buried ferrous structure.	6190	-
7434	Debris	347342	5706739	O1	1.5	1.0	0.4	179	Large dark reflector with large shadow, possibly associated with a large magnetic anomaly. Possible piece of ferrous debris, relating to a potential partially buried ferrous structure. Located outside of the current geophysical study area.	6189	-
7435	Debris Field	347316	5706677	A1	16.0	8.1	0.0	179	Small scatter of irregular dark reflectors, possibly with shadows but this is uncertain. Possibly associated with a large magnetic anomaly, and could be a scatter of ferrous debris or be part of a partially buried structure.	6188	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7436	Debris	347348	5706675	A1	2.7	0.4	0.2	179	Elongate dark reflector with small shadow, possibly associated with a large magnetic anomaly though there are numerous seabed contacts in the area so it is difficult to determine which are ferrous. Possible piece of ferrous debris.	6187	-
7437	Debris	347393	5706686	O1	3.3	4.2	0.0	-	Irregular dark reflector with possible structure but without a shadow or associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomalies 7438 and 7439. Located outside of the current geophysical study area.	6186	-
7438	Debris	347400	5706694	O1	0.7	0.2	0.3	-	Dark reflector with shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomalies 7437 and 7439. Located outside of the current geophysical study area.	6185	-
7439	Debris	347424	5706684	O1	2.8	3.1	0.0	-	Irregular dark reflector with possible structure but without a shadow or associated magnetic anomaly. Possible piece of non-ferrous debris. Located close to similar anomalies 7437 and 7438. Located outside of the current geophysical study area.	6184	-
7440	Debris Field	347528	5706336	A2	32.9	8.8	0.0	-	Scatter of irregular dark reflectors with shadows, less than 0.5m in height, but without an associated magnetic anomaly. Possible field of non-ferrous debris.	6183	-
7441	Magnetic	347515	5706566	A2	-	-	-	5	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly identified on more than one survey line, and possibly indicates the presence of a small piece of buried ferrous debris.	6182	8020 (Strike Report)
7442	Dark Reflector	347885	5706354	A2	1.3	0.4	0.3	-	Dark reflector with shadow and possible small scour, but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6181	8003, 8009 - 8018 (Strike Report)
7443	Magnetic	347709	5706450	A2	-	-	-	7	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6179	8009 - 8018 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7444	Magnetic	348231	5706599	A2	-	-	-	25	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6170	8009 - 8018 (Strike Report)
7445	Magnetic	348368	5706615	A2	-	-	-	22	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6169	-
7446	Magnetic	348226	5706654	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6168	8009 - 8018 (Strike Report)
7447	Magnetic	348221	5706680	A2	-	-	-	22	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6167	-
7448	Magnetic	348138	5706685	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6166	-
7449	Rope / Chain	348158	5706738	O1	9.0	1.3	0.0	14	Short, curvilinear dark reflector without a shadow but associated with a 14nT magnetic anomaly. Possible length of partially buried chain, possibly associated with feature 7452. Located outside of the current geophysical study area, but within the point survey area for anomaly 3089.	6164	-
7450	Debris Field	348225	5706710	O1	17.5	5.2	0.0	-	Small area of scattered dark reflectors with shadows, immediately adjacent to feature 7452. Magnetic anomaly unknown, as any signal would be masked by the nearby feature. Possible scatter of debris related to feature 7452.	6162	-
7451	Debris Field	348210	5706712	O1	14.7	5.8	0.0	-	Small area of scattered dark reflectors with shadows, immediately adjacent to feature 7452. Magnetic anomaly unknown, as any signal would be masked by the nearby feature. Possible scatter of debris related to feature 7452.	6161	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7452	Debris	348204	5706704	O1	76.2	21.2	0.3	59	Long, straight, right-angled linear dark reflector with small shadow, identified by all geophysical systems. Associated with a 59nT magnetic anomaly, and numerous surrounding pieces of possible debris (mainly 7450 and 7451). Appears very similar to the known remains of a submarine boom (7473) and is possibly a similar, partially buried structure. The magnetic anomaly indicates it is at least partially ferrous in construction. Not previously identified by UKHO or NMR, or on the Admiralty Charts.	6160	-
7453	Debris	348239	5706725	O1	4.0	0.2	0.1	-	Short, curvilinear dark reflector with small shadow but no associated magnetic anomaly. Possible piece of non-ferrous debris. Located outside of the current geophysical study area, but within the point survey area of anomaly 3089. Possibly related to feature 7452.	6159	-
7454	Debris	348246	5706740	O1	2.5	0.1	0.0	-	Short, linear dark reflector without a shadow or associated magnetic anomaly. Possible piece of partially buried non-ferrous debris. Located outside of the current geophysical study area, but within the point survey area of anomaly 3089. Possibly related to feature 7452.	6158	-
7455	Debris	348253	5706737	O1	3.9	0.1	0.0	-	Short, linear dark reflector without a shadow or associated magnetic anomaly. Possible piece of partially buried non-ferrous debris. Located outside of the current geophysical study area, but within the point survey area of anomaly 3089. Possibly related to feature 7452.	6157	-
7456	Magnetic	348273	5706735	O1	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris. Located outside of the current geophysical study area, but within the point survey area of anomaly 3089. Possibly related to feature 7452.	6156	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7457	Magnetic	348283	5706682	A2	-	-	-	8	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6154	-
7458	Magnetic	348334	5706685	A1	-	-	-	135	Large magnetic anomaly without a definitive associated sidescan sonar or multibeam bathymetry contact. Possibly identified on more than one survey line, though this is uncertain. Appears to indicate the presence of a large, buried, ferrous structure. Possibly related to feature 7452.	6153	-
7459	Debris	348325	5706706	O1	11.0	5.0	0.2	19	Area of irregular seabed identified on multibeam bathymetry data but poorly defined by the sidescan sonar. Associated with a small but distinct magnetic anomaly, and possibly represents an area of buried, partially ferrous debris. Located outside of the current geophysical study area, but within the point survey area of anomaly 3089. Possibly related to feature 7452.	6152	-
7460	Debris	348365	5706687	A1	12.5	6.5	-0.4	-	An elongate seafloor depression containing two pieces of debris: One dark reflector with a shadow measuring 1m x 2.5m x 0.4m and a length of possible length of rope or chain measuring 10.3m x 0.1m. No associated magnetic anomaly, so debris interpreted as being non-ferrous. Possibly related to feature 7452.	6151	-
7461	Magnetic	348409	5706685	A2	-	-	-	28	Irregular but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible indicates the presence of a piece of buried ferrous debris.	6148	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7462	Debris	348473	5706691	A1	16.7	0.3	0.0	123	Intermittent curvilinear dark reflector with small shadow, possible length of rope or chain. Apparently associated with a large magnetic anomaly, though this only seems to be present on one survey line. If the magnetic anomaly is real, it indicates a large amount of buried ferrous debris within the area in addition to the visible length of rope or chain. Possibly related to feature 6160.	6147	-
7463	Magnetic	348478	5706345	A1	-	-	-	99	Large magnetic anomaly without a definitive associated sidescan sonar or multibeam bathymetry contact. Some scattered dark reflectors with shadows are present (untagged), but appear to be more natural than debris. Possibly indicates the presence of a large piece of buried ferrous debris, or buried ferrous structure.	6144	-
7464	Magnetic	348597	5706635	A2	-	-	-	10	Small, irregular but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly identified on more than one survey line, and possibly indicative of a small piece of buried ferrous debris.	6143	8009 - 8018 (Strike Report)
7465	Debris	348648	5706648	A1	2.0	1.0	0.7	-	Two adjacent, approximately equal sized, strong, dark reflectors with large shadows, located approximately 4m apart (location is the centre of the two reflectors). The objects are located within a large depression approximately 27m x 17.5m and 1m deep, and do not have an associated magnetic anomaly. Possibly both part of the same partially buried non-ferrous debris or structure.	6142	8009 - 8018 (Strike Report)
7466	Debris	348737	5706692	A2	2.0	2.9	0.0	-	Small, poorly defined, oval dark reflector without a shadow or associated magnetic anomaly, but with possible structure. Possible piece of partially buried non-ferrous debris.	6141	8009 - 8018 (Strike Report)
7467	Dark Reflector	348756	5706703	A2	0.6	0.2	0.3	-	Small dark reflector with shadow but no associated magnetic anomaly. Could be a natural feature or a piece of non-ferrous debris.	6140	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7468	Magnetic	348826	5706605	A2	-	-	-	8	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicative of a small piece of buried ferrous debris.	6138	8009 - 8018 (Strike Report)
7469	Magnetic	348936	5706607	A2	-	-	-	12	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicative of a small piece of buried ferrous debris.	6137	-
7470	Magnetic	348887	5706635	A2	-	-	-	17	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Potentially identified on two survey lines, and possibly indicative of a small piece of buried ferrous debris.	6136	-
7471	Recorded Obstruction	348934	5706544	A3	-	-	-	-	Position of a previously recorded obstruction, not identified by any of the geophysical equipment. Previous investigation indicates it may have been part of the submarine boom, and that the site has been cleared.	-	13159 (UKHO), 800478 (NMR), 712 (PLA)
7472	Recorded Obstruction	348932	5706468	A3	-	-	-	-	Position of a previously recorded obstruction, not identified by any of the geophysical equipment. Previous investigation indicates it may have been part of the submarine boom, and that the site has been cleared.	-	13156 (UKHO), 800471 (NMR), 713 (PLA)
7473	Debris Field	348940	5706357	A1	57.5	46.7	0.0	26	A debris field comprising a long, straight linear dark reflector with a small surrounding area of seafloor disturbance, and additional curvilinear dark reflectors (probable lengths of rope or chain). An associated magnetic anomaly of 26nT indicates a partial ferrous construction. Described by UKHO as an "obstruction within a scour", and previously described as the possible remains of a submarine boom which protected the Thames during WWII and the Cold War.	6130	58374 (UKHO), 794 (PLA)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7474	Debris Field	348992	5706376	A1	13.4	6.2	0.0	37	Small area of dark reflectors with small shadows, less than 0.5m in height, associated with a 37nT magnetic anomaly. Possible scatter of ferrous derbies, possibly related to nearby structure 7473.	6129	8003, 8009 - 8018 (Strike Report)
7475	Magnetic	349038	5706357	A2	-	-	-	23	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly represents a piece of buried ferrous debris.	6128	-
7476	Debris Field	349158	5706373	A2	6.2	2.1	0.0	30	Small, linear alignment of dark reflectors with shadows less than 0.5m in height, associated with a distinct 30nT magnetic anomaly. Located in an area of mobile seabed sediment and could be an area of partially buried ferrous debris.	6127	8003 (Strike Report)
7477	Magnetic	349039	5706555	A2	-	-	-	6	Small but distinct dipole magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly represents a small piece of buried ferrous debris.	6126	8008, 8009 - 8018 (Strike Report)
7478	Magnetic	349100	5706640	A2	-	-	-	29	Distinct magnetic anomaly identified on two survey lines. No associated sidescan sonar or multibeam bathymetry contact, but could represent a piece of buried ferrous debris.	6124	8009 - 8018 (Strike Report)
7479	Debris	349204	5706715	A2	1.1	1.3	0.2	-	Isolated, irregular dark reflector with a small shadow and possible structure but no associated magnetic anomaly. Located in an area of mobile seabed sediment and possibly a piece of non-ferrous debris.	6121	8020 (Strike Report)
7480	Debris	349388	5706557	A2	2.1	0.2	0.2	-	Elongate dark reflector with shadow but no associated magnetic anomaly, located close to the Sea Reach 2 Marker Buoy. Possible piece of non-ferrous debris. Located close to similar anomalies 7481 and 7482.	6117	8009 - 8018 (Strike Report)
7481	Debris	349356	5706562	A2	1.0	0.9	0.3	-	Elongate dark reflector with shadow but no associated magnetic anomaly, located close to the Sea Reach 2 Marker Buoy. Possible piece of non-ferrous debris. Located close to similar anomalies 7480 and 7482.	6116	8009 - 8018 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7482	Debris	349337	5706560	A2	4.4	0.5	0.3	-	Elongate dark reflector with shadow but no associated magnetic anomaly, located close to the Sea Reach 2 Marker Buoy. Possible piece of non-ferrous debris. Located close to similar anomalies 7480 and 7481.	6115	-
7483	Debris	349337	5706541	A2	19.2	0.7	0.5	-	Strong, curvilinear dark reflector with occasional shadows but no associated magnetic anomaly. Located close to the Sea Reach 2 Marker Buoy. Possible piece of non-ferrous linear debris.	6114	-
7484	Debris	349395	5706530	A2	2.0	0.5	0.5	-	Distinct dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 2 marker buoy, and close to similar reflector 7485. Possible piece of non-ferrous debris.	6113	-
7485	Debris	349374	5706537	A2	1.7	1.0	0.3	-	Distinct dark reflector with shadow but no associated magnetic anomaly. Located close to the Sea Reach 2 marker buoy, and close to similar reflector 7484. Possible piece of non-ferrous debris.	6112	-
7486	Debris Field	349445	5706533	A2	15.3	9.5	0.0	-	Curvilinear dark reflector, or alignment of small dark reflectors, with surrounding area of seafloor disturbance. Located close to the Sea Reach 2 Marker Buoy. No associated magnetic anomaly, but possibly a scatter of non-ferrous debris.	6111	-
7487	Debris Field	349448	5706566	A2	50.5	5.7	0.0	-	Elongate alignment of irregular dark reflectors with shadows, largest up to approximately 1m in height. Located close to the Sea Reach 2 marker Buoy. No associated magnetic anomaly, possible scatter of non-ferrous debris.	6110	-
7488	Magnetic	349284	5706365	A2	-	-	-	22	Complex magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact, possibly indicative of a piece of buried ferrous debris.	6109	-
7489	Debris Field	349386	5706386	A2	6.5	2.4	0.0	-	An alignment of three closely spaced dark reflectors with small shadows, less than 0.5m in height. No associated magnetic anomaly but located in an area of mobile seabed sediment, so could be a small field of partially buried non-ferrous debris or structure.	6107	8003 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7490	Recorded Obstruction	349413	5706398	A3	-	-	-	-	Position of a previously recorded obstruction, not identified by any of the geophysical equipment. Previous investigation indicate it may have been part of the submarine boom, and that the site has been cleared.	-	13264 (UKHO), 800464 (NMR), 791 (PLA)
7491	Seafloor Disturbance	349554	5706374	A2	73.4	21.0	0.0	14	Area of poorly defined seafloor disturbance, only definitively identified on one line. Possibly associated with a small magnetic anomaly, though numerous anomalies have been identified along this line, probably due to shallow water depths, so it could just be a coincidence. Possible debris field or natural feature.	6104	8003, 8004 (Strike Report)
7492	Magnetic	349514	5706516	A2	-	-	-	24	Two different magnetic anomalies identified on adjacent lines and probably part of the same feature. No associated sidescan sonar or multibeam bathymetry anomaly, and possible represents a piece of buried ferrous debris. Magnetic strength is largest of the two.	6102	-
7493	Debris Field	349562	5706551	A2	15.6	24.9	0.0	-	Small area of irregular dark reflectors within an area of seafloor disturbance. No associated magnetic anomaly, though anomalies 7492 and 7494 are located within 50m. Possible debris field.	6101	-
7494	Magnetic	349555	5706580	A2	-	-	-	27	Distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possible debris field is located approximately 30m to the south, though it is unclear if it is related. Possibly indicates the presence of a buried piece of ferrous debris.	6100	-
7495	Debris	349708	5706513	A2	1.8	0.6	0.3	-	Dark reflector with shadow and possible small scour, but no associated magnetic anomaly. Possible piece of partially buried, non-ferrous debris.	6098	8004, 8009 - 8018 (Strike Report)
7496	Magnetic	349768	5706375	A2	-	-	-	17	Small but distinct complex magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Located in an area of noisy data, but more distinct than other contacts in the area, and possibly indicates a small piece of buried ferrous debris.	6096	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7497	Magnetic	349972	5706545	A2	-	-	-	5	Small but distinct magnetic anomaly identified on two lines. No associated sidescan sonar or multibeam bathymetry contacts, and could indicate the presence of a small piece of buried ferrous debris.	6087	-
7498	Magnetic	349886	5706540	A2	-	-	-	9	Small but distinct magnetic anomaly identified on two lines. No associated sidescan sonar or multibeam bathymetry contacts, and could indicate the presence of a small piece of buried ferrous debris.	6086	-
7499	Debris	349952	5706621	A2	2.7	0.4	0.5	12	Strong isolated dark reflector with shadow and associated 12nT magnetic anomaly. Possible piece of ferrous debris.	6085	8003, 8004, 8009 - 8018 (Strike Report)
7500	Magnetic	349975	5706663	A2	-	-	-	16	Small but distinct magnetic anomaly identified on two lines. No associated sidescan sonar or multibeam bathymetry contacts, and could indicate the presence of a small piece of buried ferrous debris.	6084	8009 - 8018 (Strike Report)
7501	Debris	349983	5706700	A2	1.4	0.8	0.2	-	Irregular dark reflector with shadow and possible small scour, but no associated magnetic anomaly. Located within an area of mobile sand, and possible piece of partially buried non-ferrous debris.	6083	-
7502	Debris	350122	5706581	A2	80.8	0.8	0.4	-	Irregular, poorly defined, curvilinear dark reflector with a small shadow but without an associated magnetic anomaly. Features runs at right angles to the seabed mega-ripple orientation. An additional, semi-circular reflector is present towards the centre of the feature. Possible partially buried non-ferrous structure.	6080	8009 - 8018 (Strike Report)
7503	Rope / Chain	350129	5706617	A2	59.9	0.4	0.0	-	Poorly defined, intermittent curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible length of partially buried rope or chain.	6079	8009 - 8018 (Strike Report)
7504	Magnetic	350081	5706664	A2	-	-	-	16	Small but distinct magnetic anomaly, possibly identified on more than one line. No associated sidescan sonar or multibeam bathymetry contact, and possibly indicates the presence of a small piece of buried ferrous debris.	6078	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7505	Debris	350031	5706740	A2	2.1	1.2	0.0	-	Small, square dark reflector with possible structure but no associated magnetic anomaly. Possible small shadow, though this is uncertain. Probable piece of non-ferrous debris. Located close to similar feature 7507.	6077	-
7506	Rope / Chain	350062	5706734	A2	11.5	0.3	0.0	-	Intermittent curvilinear dark reflector, possibly with a very small shadow though this is uncertain. No associated magnetic anomaly. Possible length of partially buried rope or chain.	6076	-
7507	Debris	350092	5706730	A2	2.5	2.2	0.0	-	Small, square dark reflector with possible structure but no associated magnetic anomaly. Possible small shadow, though this is uncertain. Probable piece of non-ferrous debris. Located close to similar feature 7505.	6075	-
7508	Magnetic	350213	5706385	A2	-	-	-	9	Small but distinct magnetic anomaly within an area of noisy data. Possibly a small piece of buried ferrous debris.	6072	-
7509	Magnetic	350217	5706641	A2	-	-	-	17	Small but distinct magnetic anomaly without any associated sidescan sonar or multibeam bathymetry contacts. Possibly indicates the presence of a small piece of buried ferrous debris.	6071	-
7510	Magnetic	350162	5706669	A2	-	-	-	15	Small, distinct magnetic anomaly, possibly identified on more than one survey line and adjacent to similar anomaly 7511. No associated sidescan sonar or multibeam bathymetry contacts, and possibly represents a small piece of buried ferrous debris.	6070	-
7511	Magnetic	350204	5706670	A2	-	-	-	18	Small, distinct magnetic anomaly, possibly identified on more than one survey line and adjacent to similar anomaly 7510. No associated sidescan sonar or multibeam bathymetry contacts, and possibly represents a small piece of buried ferrous debris.	6069	-
7512	Debris	350306	5706596	A2	2.4	0.9	0.4	-	Isolated, irregular dark reflector with large shadow and possible small scour. No associated magnetic anomaly. Located in an area of mobile seabed sediment, and is possibly a piece of partially buried non-ferrous debris.	6065	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7513	Magnetic	350321	5706675	A2	-	-	-	7	Small but distinct magnetic anomaly without any associated sidescan sonar or multibeam bathymetry contacts. Possibly indicates the presence of a small piece of buried ferrous debris. Located approximately 125m from wreck 7519 and could be related, though this is uncertain.	6064	-
7514	Debris	350349	5706701	A1	1.0	0.4	0.4	-	Dark reflector with shadow, magnetic anomaly unknown as any anomaly would be masked by nearby wreck 7519. Possible piece of debris related to the wreck.	6063	-
7515	Debris Field	350374	5706530	O1	21.6	10.4	0.0	66	Small area of poorly defined, irregular dark reflectors, possibly associated with a 66nT magnetic anomaly. Possibly a scatter of ferrous debris related to wreck 7517. Located outside of the current geophysical study area.	6062	-
7516	Debris	350415	5706458	O1	0.6	0.0	0.2	-	Small dark reflector with shadow, magnetic anomaly unknown as any anomaly would be masked by the signal from nearby wreck 7517. Possibly related debris. Located outside of the current geophysical study area.	6061	-
7517	Wreck	350547	5706566	O1	36.6	12.1	1.9	211	Known wreck of the <i>Dovenby</i> (South), identified by sidescan sonar and magnetometer. Structure was only imaged during a line turn and so is poorly defined, though appears to be relatively small and more a scatter of debris with individual larger parts rather than a coherent wreck structure. Only a small portion was imaged by multibeam bathymetry, which indicates it is located within a scour approximately 3m deep. Large magnetic anomaly indicates a largely ferrous construction. Dimensions include a surrounding debris field. Located outside of the current geophysical study area and on data acquired during a line turn, so positioning and dimensions will be less accurate.	6060	12888 (UKHO), 908038 (NMR)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7518	Debris	350395	5706663	O1	0.8	0.3	0.5	-	Small dark reflector with shadow, magnetic anomaly unknown as any anomaly would be masked by the signal from nearby wreck 7519. Located within the scour of the wreck, and likely to be related debris. Located outside of the current geophysical survey area.	6059	-
7519	Wreck	350443	5706696	O1	59.5	25.5	2.2	2840	Location of a known wreck of, identified by all geophysical sensors orientated approximately NNW - SSE. Originally thought to be part of the <i>Dovenby</i> , more recent investigations indicate it is possibly a different, unidentified vessel (though it is still referred to as the the <i>Dovenby</i> (North)). Appears upright and partially intact with some structure and height visible, though appears to be partially laid on one side. A large scour approximately 2m deep extends to the east and west of the main structure. A debris field extends into the scour on the western side (included in the dimension measurements), and other small possible pieces of debris are present within the scour on the eastern side (7520, 7521 and 7522). The very large magnetic anomaly indicates a largely ferrous construction. Located outside of the current geophysical study area.	6058	12890 (UKHO), 908039 (NMR)
7520	Debris Field	350462	5706704	O1	16.8	8.4	0.0	-	Scatter of irregular dark reflectors located within the scour of wreck 7519. Possibly a small debris field related to the wreck. Located outside of the current geophysical study area.	6057	-
7521	Debris	350486	5706697	O1	0.5	0.4	0.3	-	Small dark reflector with shadow, magnetic anomaly unknown as any anomaly would be masked by the signal from nearby wreck 7519. Located within the scour of the wreck, and likely to be related debris. Located outside of the current geophysical study area.	6056	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7522	Debris	350503	5706703	O1	1.2	0.4	0.3	-	Small dark reflector with shadow, magnetic anomaly unknown as any anomaly would be masked by the signal from nearby wreck 7519. Located within the scour of the wreck, and likely to be related debris. Located outside of the current geophysical study area.	6055	-

3. Positions are given in UTMz31 (WGS84)
4. Positions given are $\pm 10\text{m}$

APPENDIX III: ANOMALIES OF ARCHAEOLOGICAL POTENTIAL – ZONE 105

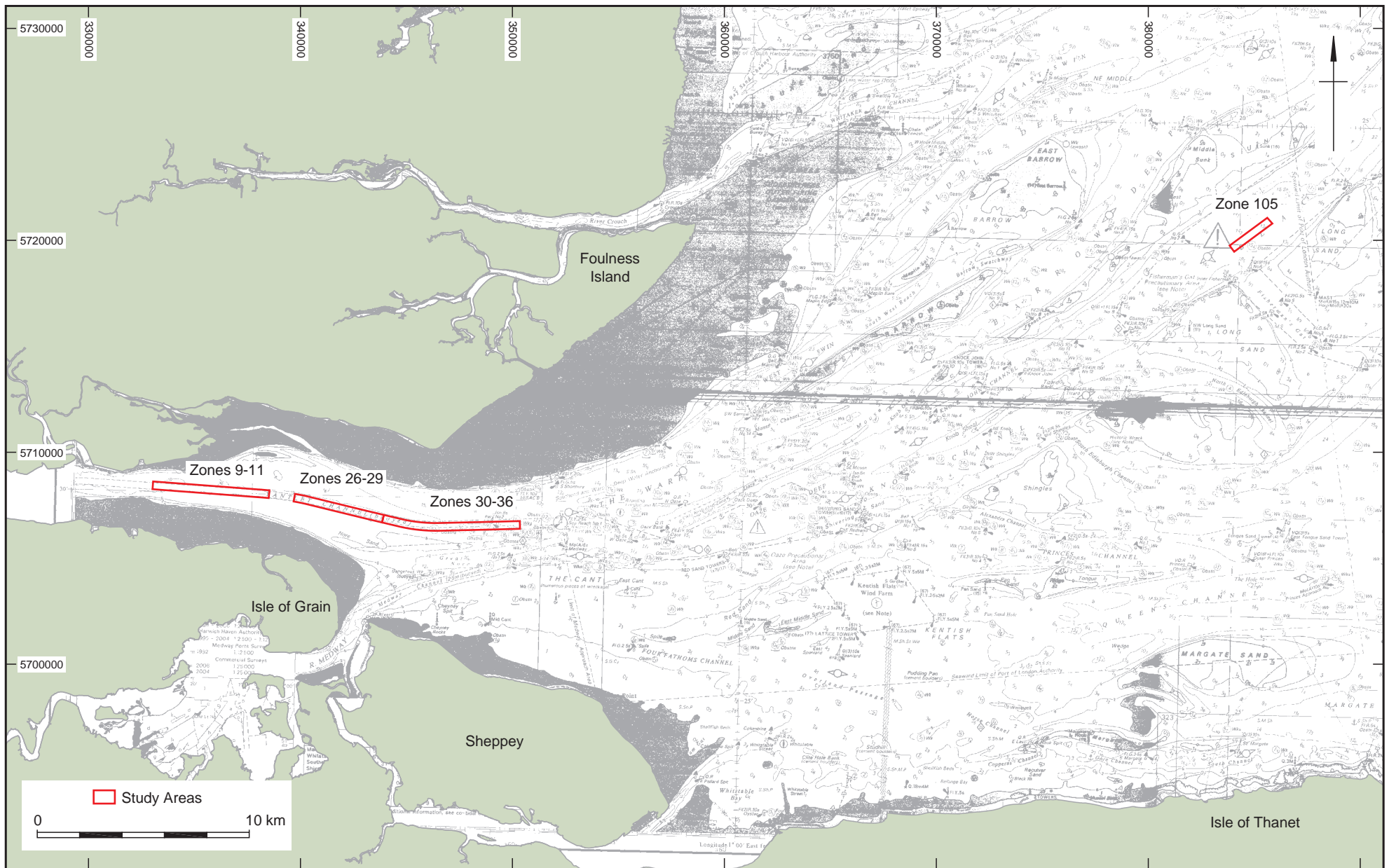
WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7523	Magnetic	382525	5718549	A2	-	-	-	6	Small but distinct magnetic anomaly located within the point survey area of anomaly 7200. No associated sidescan sonar or multibeam bathymetry anomaly, and could represent a small piece of buried ferrous debris.	6054	-
7524	Magnetic	382278	5718440	A2	-	-	-	7	Small but distinct magnetic anomaly located within the point survey area of anomaly 7200. No associated sidescan sonar or multibeam bathymetry anomaly, and could represent a small piece of buried ferrous debris.	6052	-
7525	Rope / Chain	382940	5718927	A2	44.5	0.3	0.1	-	Intermittent curvilinear dark reflector located within the point survey area of anomaly 7199. No associated magnetic anomaly, though could be a partially buried length of rope or chain.	6049	-
7526	Debris	384060	5719488	A2	11.5	0.3	0.0	-	Curvilinear dark reflector without a shadow or associated magnetic anomaly. Located in an area of mega ripples and possibly a piece of partially buried, non-ferrous debris.	6046	-
7527	Debris Field	383896	5719707	A2	8.7	5.8	0.0	-	Small area of scattered dark reflectors with shadows, less than 0.5m in height. No associated magnetic anomaly, though could be a small scatter of non-ferrous debris.	6042	-
7528	Seafloor Disturbance	383863	5719718	A2	10.4	5.7	0.0	-	Small area of seafloor disturbance without an associated magnetic anomaly. Could either represent mostly buried non-ferrous debris, or be a natural feature related to sand mega-ripples and small sand waves visible in the vicinity.	6041	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7529	Debris	384445	5719843	A2	1.6	1.4	0.3	6	Isolated dark reflector with shadow and associated scour within an area of mobile seabed sediment. Associated with a 6nT magnetic anomaly, and possibly a piece of partially buried ferrous debris.	6038	8024 (Strike Report)
7530	Debris	384314	5719944	A1	21.0	4.3	0.4	-	Unusual seabed feature comprising a curvilinear dark reflector and surrounding low mound. Possible small shadow, though this could be disturbed seabed. Not definitively identified on multibeam bathymetry. Located approximately 50m from a distinct magnetic anomaly (7531), though probably not associated. Possibly a partially buried piece of non-ferrous debris, or small structure.	6037	8024 (Strike Report)
7531	Magnetic	384265	5719968	A2	-	-	-	29	Very distinct medium magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates a piece of buried ferrous debris.	6036	-
7532	Magnetic	384770	5720253	A2	-	-	-	10	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6034	-
7533	Magnetic	384680	5720372	A2	-	-	-	6	Small but distinct magnetic anomaly without an associated sidescan sonar or multibeam bathymetry contact. Possibly indicates the presence of a small piece of buried ferrous debris.	6033	-
7534	Debris	385130	5720611	A1	5.4	2.7	0.0	8	Small, irregular dark reflector without a shadow but with possible structure. Associated with an 8nT magnetic anomaly and located approximately 25m from an almost identical anomaly (7535). Possibly a piece of aircraft debris.	6028	8024 (Strike Report)

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7535	Debris	385151	5720625	A1	4.1	2.7	0.0	8	Small, irregular dark reflector without a shadow but with possible structure. Associated with an 8nT magnetic anomaly and located approximately 25m from an almost identical anomaly (7534). Possibly a piece of aircraft debris.	6027	8024 (Strike Report)
7536	Dark Reflector	385314	5720752	A2	3.3	0.4	0.2	-	Poorly defined elongate dark reflector with small shadow but no associated magnetic anomaly. Could be a piece of linear debris or a seabed scar.	6026	-
7537	Magnetic	385572	5720846	A2	-	-	-	11	Small but distinct magnetic anomaly without any associated sidescan sonar or multibeam bathymetry contacts. Possibly indicates the presence of a small, buried piece of ferrous debris.	6017	-
7538	Debris	385475	5720930	A2	0.5	0.3	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Located in an area of possible debris fields, and possibly a piece of non-ferrous debris. Some other possible dark reflectors located in the surrounding area, though these are unclear and so are not tagged.	6015	-
7539	Debris Field	385560	5720977	A2	19.9	19.5	0.0	5	Scatter of dark reflectors with shadows up to 0.5m high. Possibly associated with a 5nT magnetic anomaly, though this is uncertain. Possible scatter of debris with a small ferrous content.	6013	-
7540	Debris	385539	5720995	A2	0.8	0.4	0.4	-	Dark reflector with shadow but no associated magnetic anomaly. Located in an area of possible debris fields, and possibly a piece of non-ferrous debris.	6012	-
7541	Debris	385640	5721016	A2	1.5	0.7	0.5	-	Irregular dark reflector with shadow and possible small scour, though no associated magnetic anomaly. Located in an area of possible debris fields, and is possibly a piece of non-ferrous debris.	6008	-

WA_ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Notes	Internal References	External References
7542	Debris	385612	5721040	A2	0.5	0.2	0.3	-	Small dark reflector with shadow but no associated magnetic anomaly. Located in an area of small possible debris fields, and possibly a piece of non-ferrous debris.	6007	-

- 5. Positions are given in UTMz31 (WGS84)
- 6. Positions given are ±10m

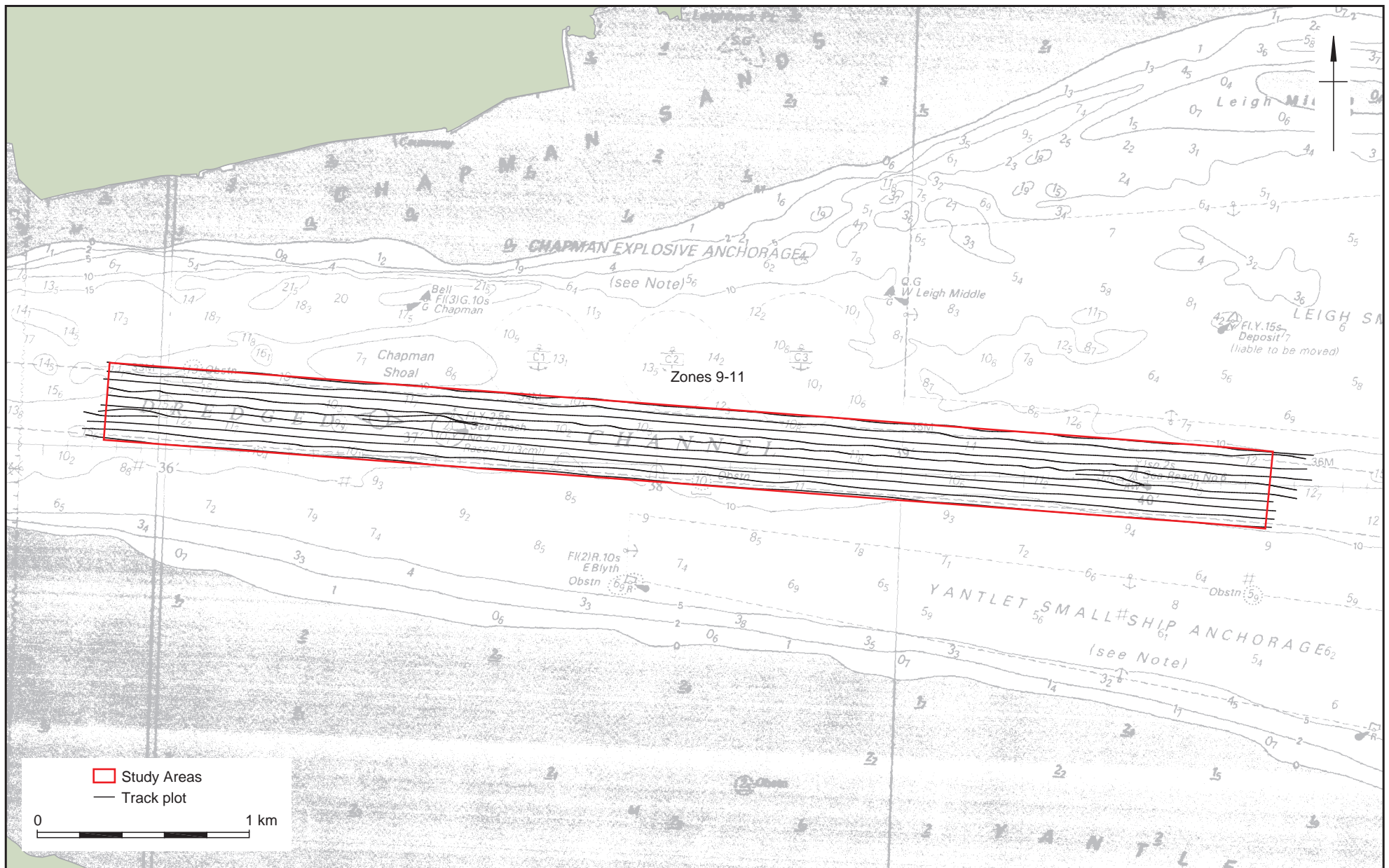


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Study Area Locations

Figure 1

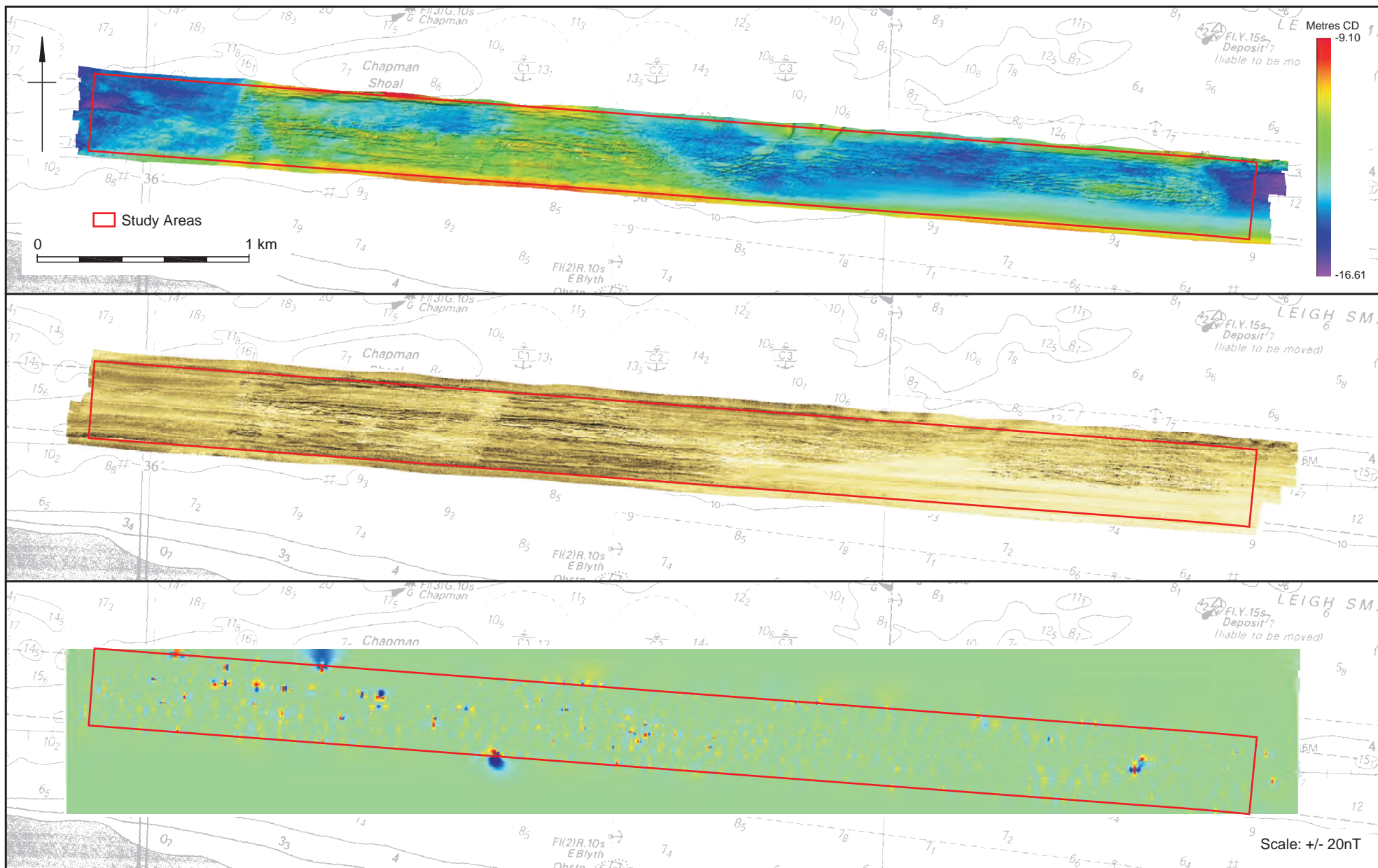



Admiralty chart no. 1185 (dated 1999). Drawing projection UTM WGS84 z31N.
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Date:	13/01/12	Revision Number:	0
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Zone 9-11 Track Plot

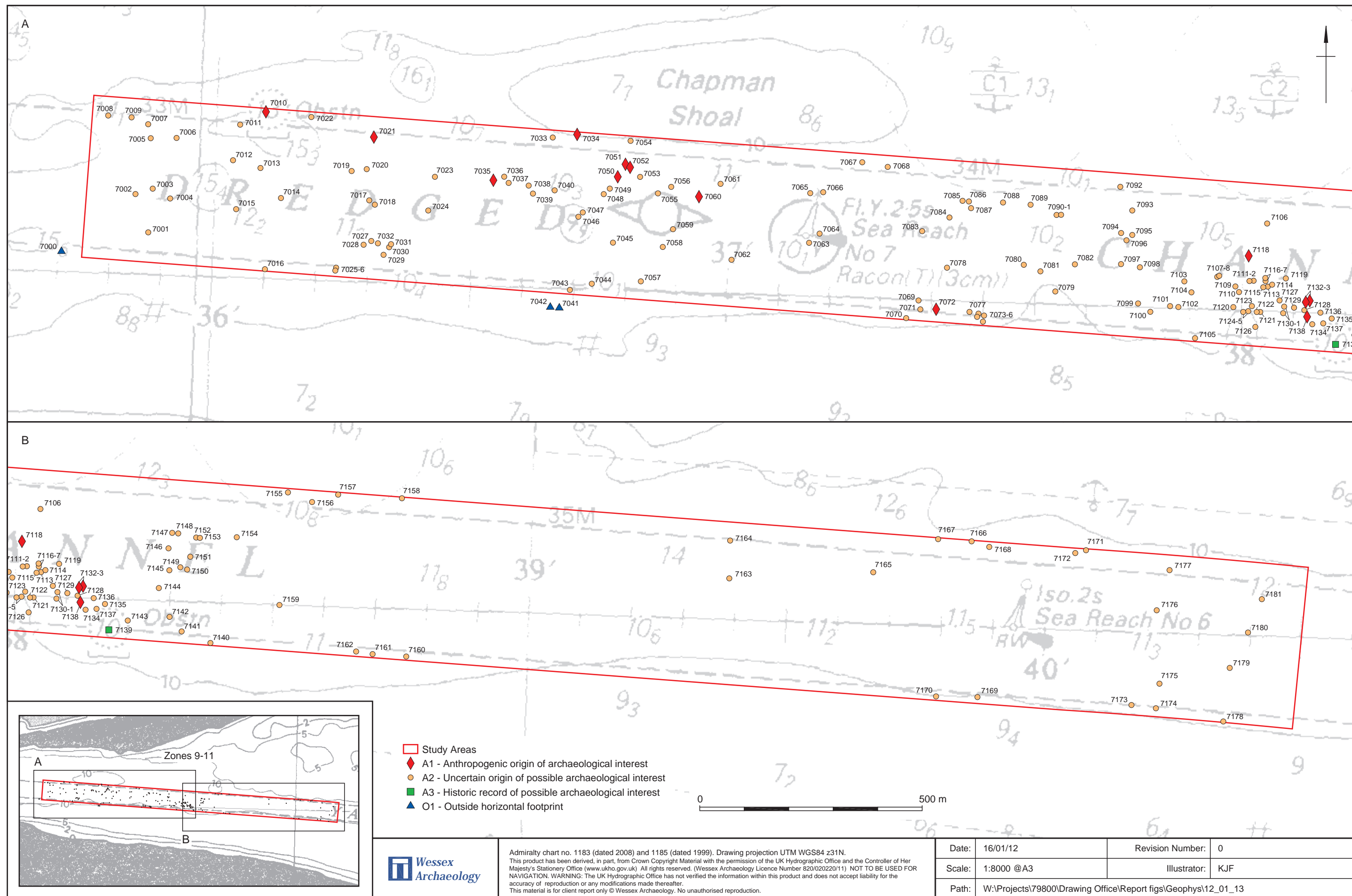
Figure 2



	<p>Admiralty chart no. 1185 (dated 1999). Drawing projection UTM WGS84 z31N. Contains Ordnance Survey data © Crown Copyright and database right 2012. This product has been derived, in part, from Crown Copyright Material with the permission of the UK Hydrographic Office and the Controller of Her Majesty's Stationery Office (www.ukho.gov.uk) All rights reserved. (Wessex Archaeology Licence Number 820/020220/11) NOT TO BE USED FOR NAVIGATION. WARNING: The UK Hydrographic Office has not verified the information within this product and does not accept liability for the accuracy of reproduction or any modifications made thereafter. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.</p>	Date:	13/01/12	Revision Number:	0
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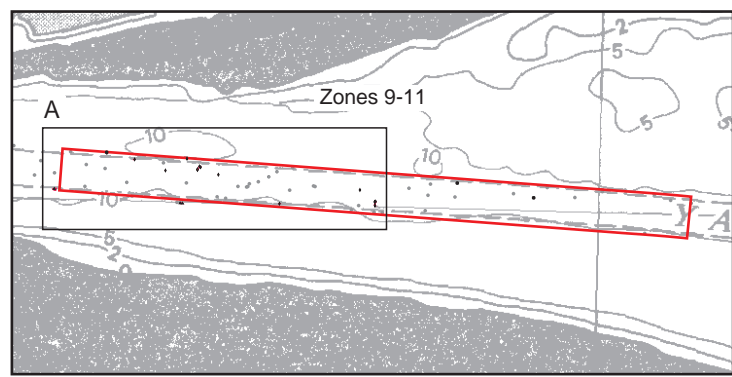
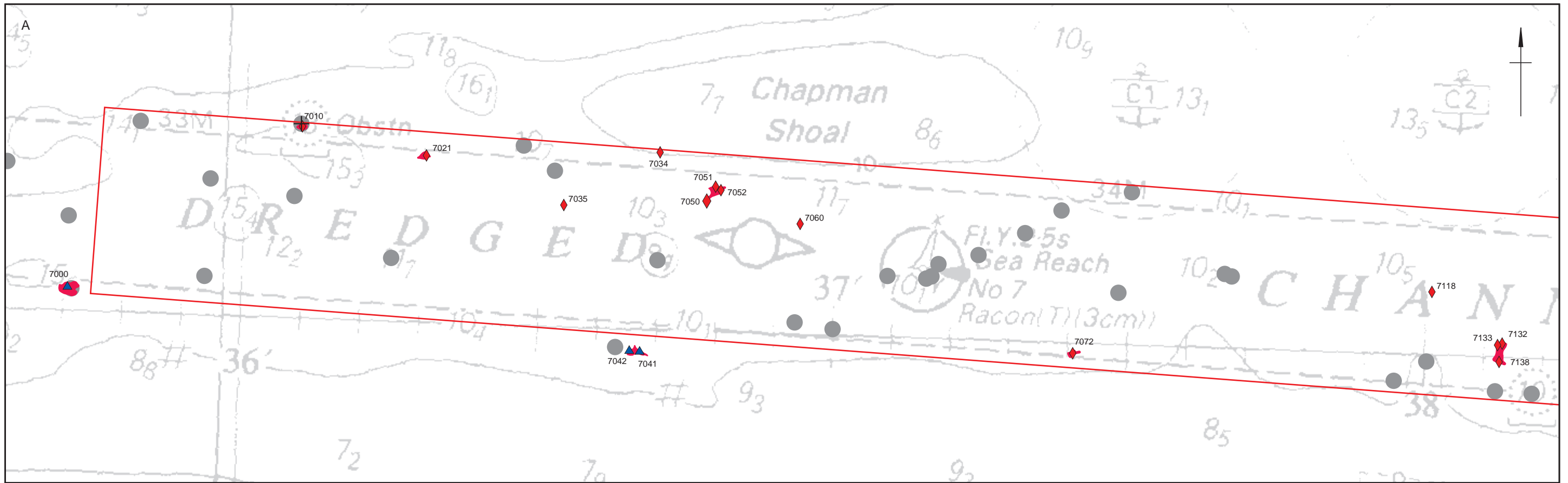
Zone 9-11 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 3



Zone 9-11 Anomalies of Archaeological Potential

Figure 4



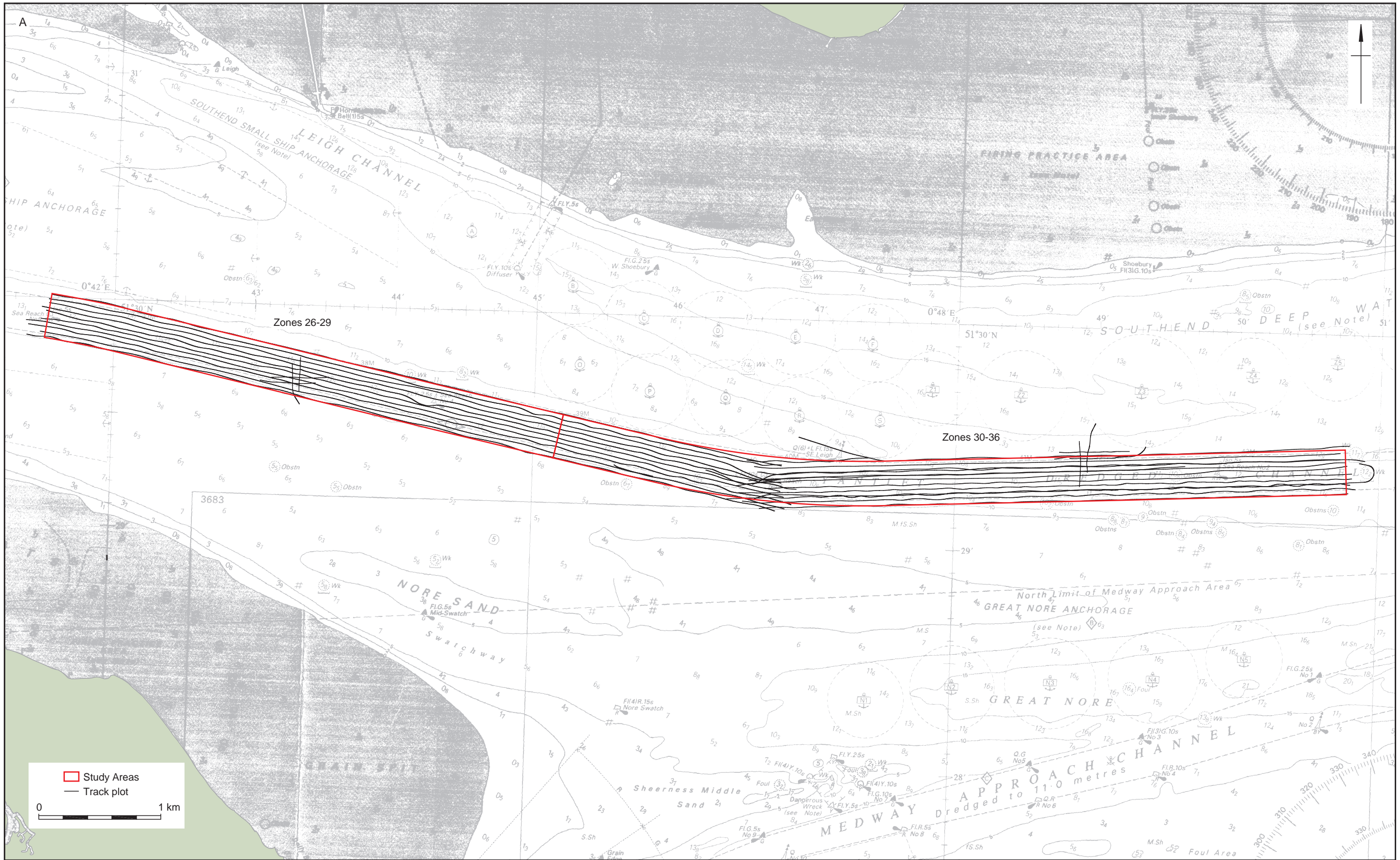
- Study Areas
- ◆ A1 - Anthropogenic origin of archaeological interest
- ▲ O1 - Outside horizontal footprint
- ▲ Anomalies of archaeological potential
- + Sites subject to CMS
- Sites and anomalies identified in earlier phases of work



	<small>Admiralty chart no. 1183 (dated 2008) and 1185 (dated 1999). Drawing projection UTM WGS84 z31N. This product has been derived, in part, from Crown Copyright Material with the permission of the UK Hydrographic Office and the Controller of Her Majesty's Stationery Office (www.ukho.gov.uk). All rights reserved. (Wessex Archaeology Licence Number 820/020220/11) NOT TO BE USED FOR NAVIGATION. WARNING: The UK Hydrographic Office has not verified the information within this product and does not accept liability for the accuracy of reproduction or any modifications made thereafter. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.</small>		Date: 16/01/12	Revision Number: 0
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			Path: W:\Projects\79800\Drawing Office\Report figs\Geophys\12_01_13	

Anomalies of Archaeological Potential

Figure 5

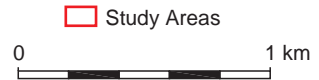
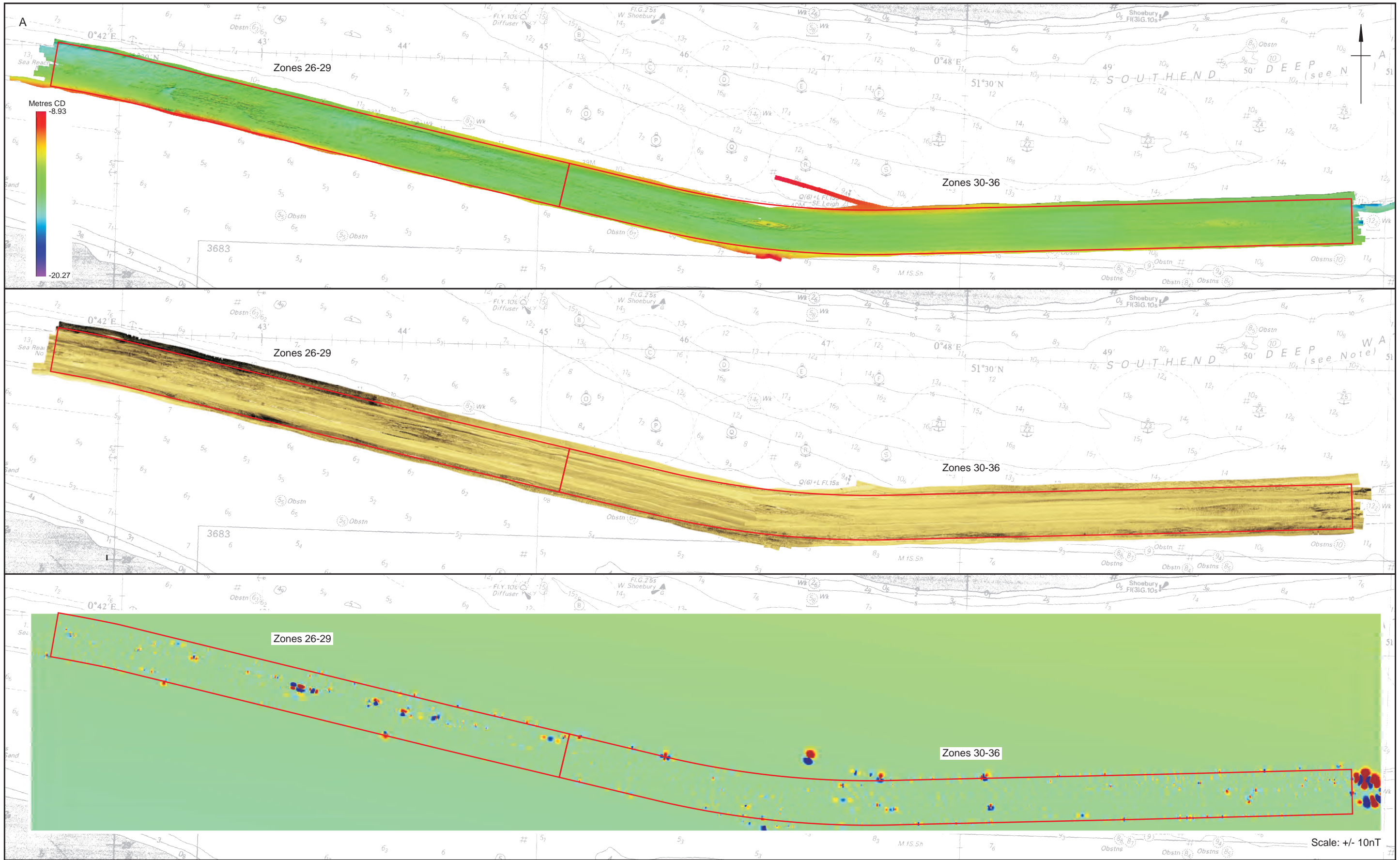


Admiralty chart no. 1185 (dated 1999). Drawing projection UTM WGS84 z31N.
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Zone 26-36 Track Plot

Figure 6

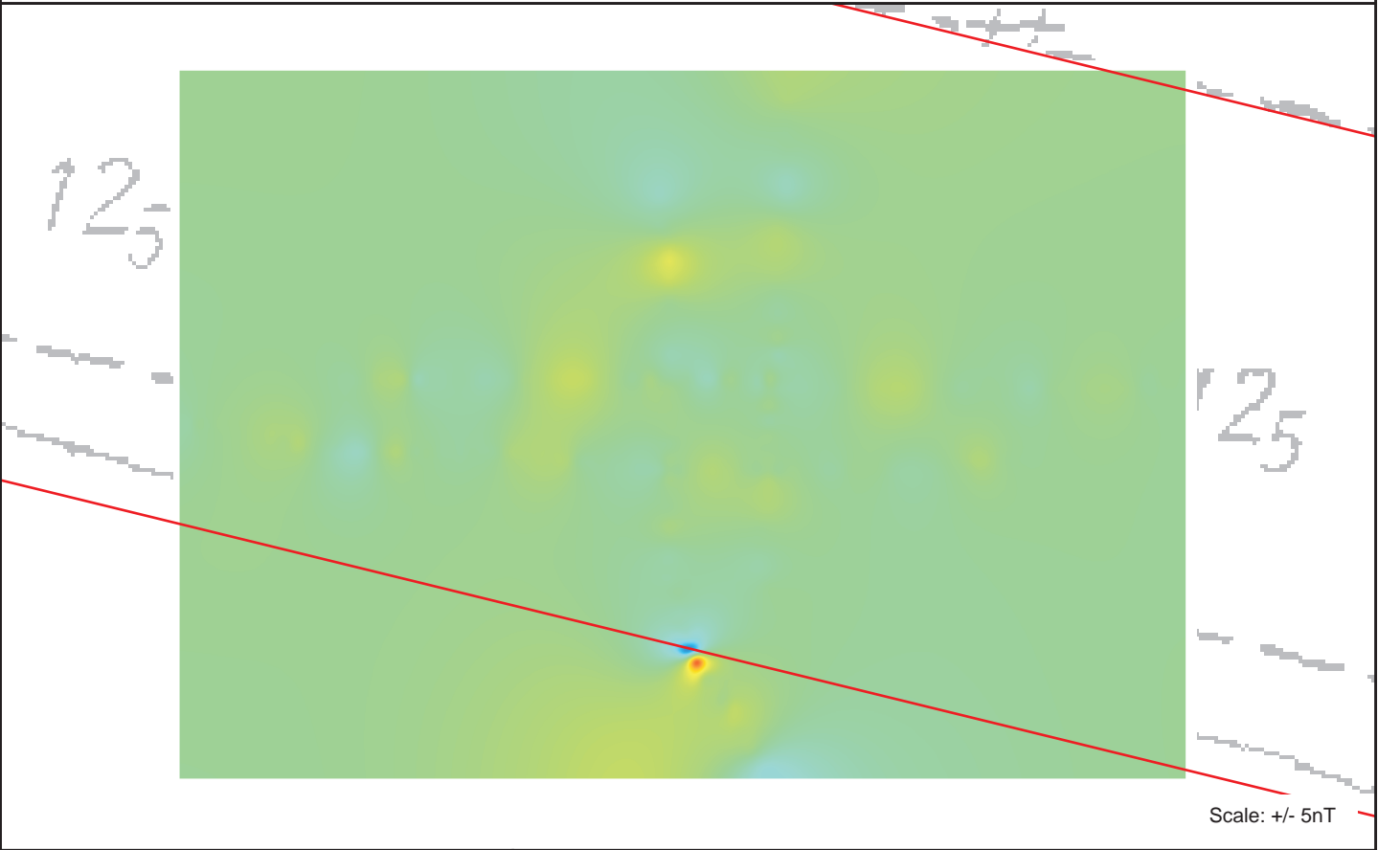
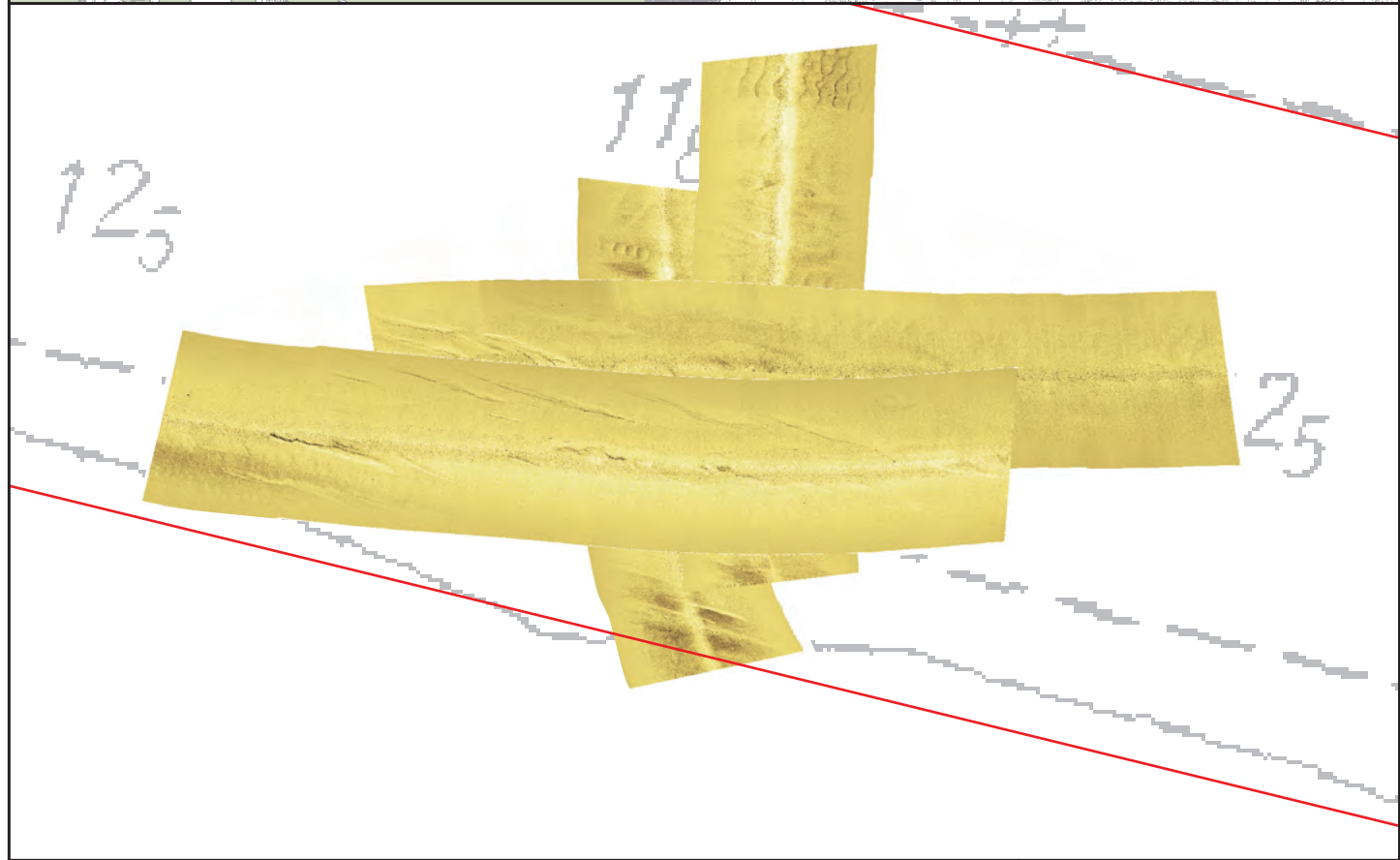
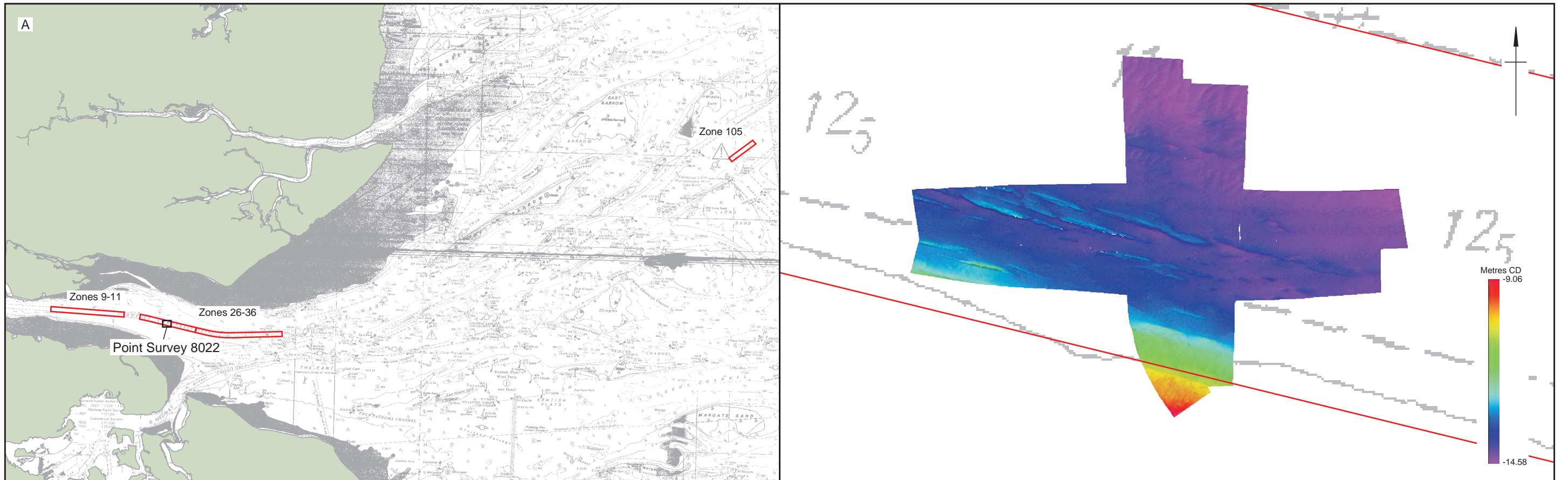



Admiralty chart no. 1185 (dated 1999). Drawing projection UTM WGS84 z31N.
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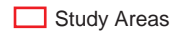
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Path:	W:\Projects\79800\Drawing Office\Report figs\Geophys\12_01_13		


Zone 26-36 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 7





 Study Areas

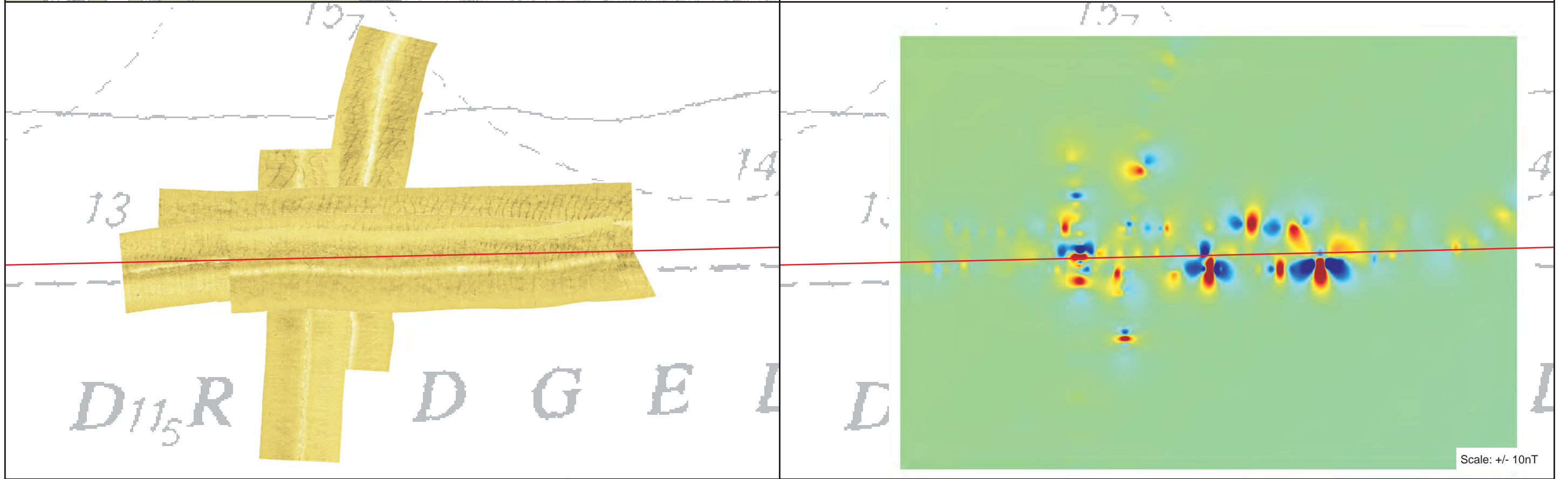
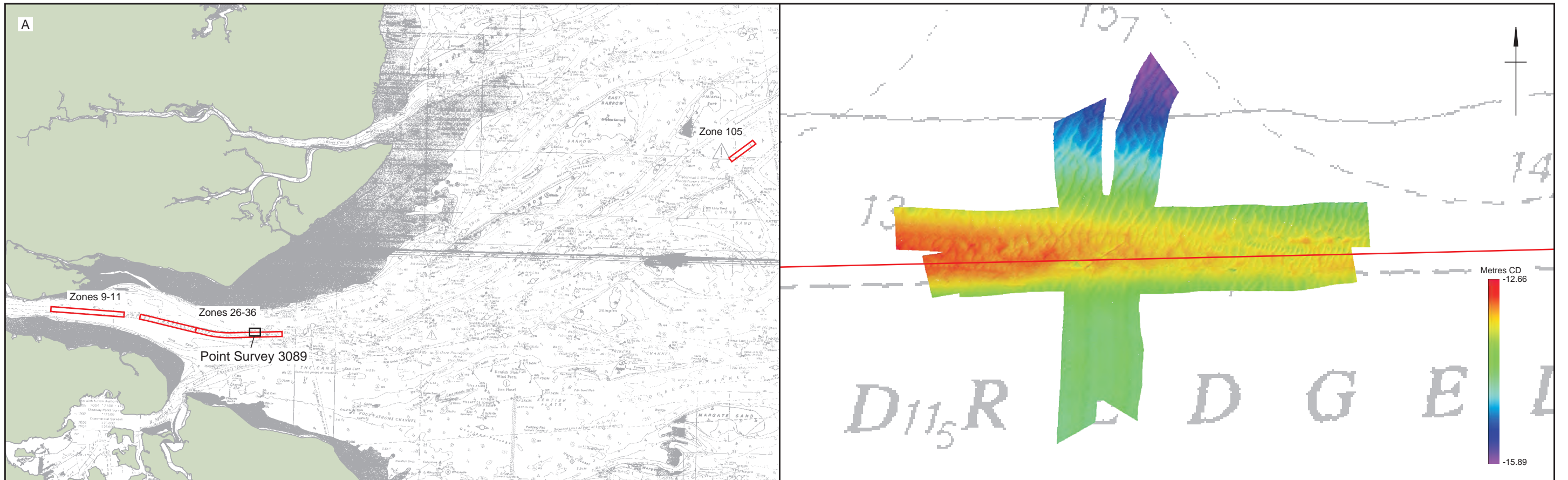


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Point Survey 8022 Bathymetry, Sidescan Sonar and Magnetometer Data

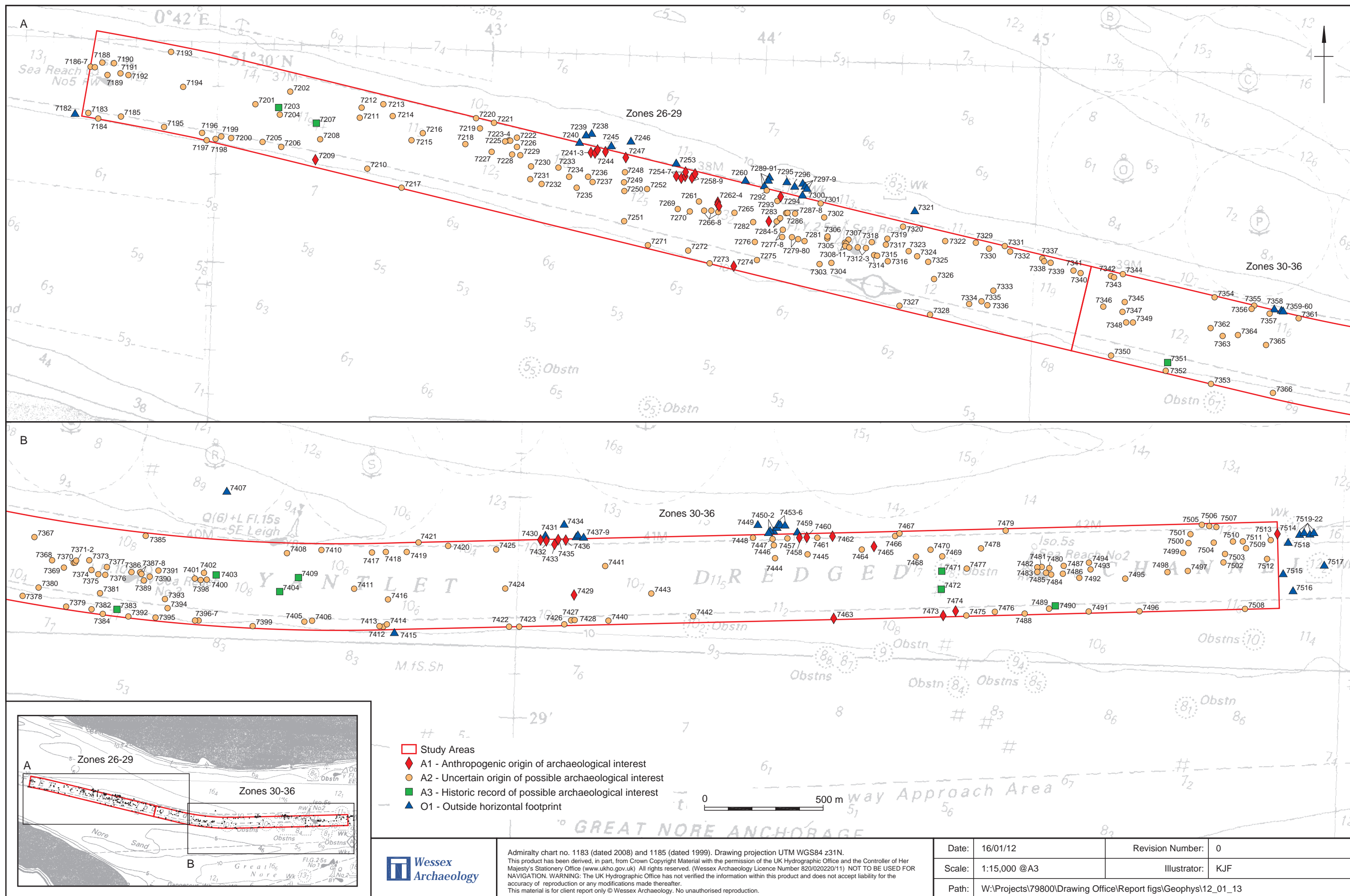
Figure 8



		Admiralty chart no. 1183 (dated 2008) and 1185 (dated 1999). Drawing projection UTM WGS84 z31N. This product has been derived, in part, from Crown Copyright Material with the permission of the UK Hydrographic Office and the Controller of Her Majesty's Stationery Office (www.ukho.gov.uk). All rights reserved. (Wessex Archaeology Licence Number 820/020220/11) NOT TO BE USED FOR NAVIGATION. WARNING: The UK Hydrographic Office has not verified the information within this product and does not accept liability for the accuracy of reproduction or any modifications made thereafter. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.		Date:	17/01/12	Revision Number:	0
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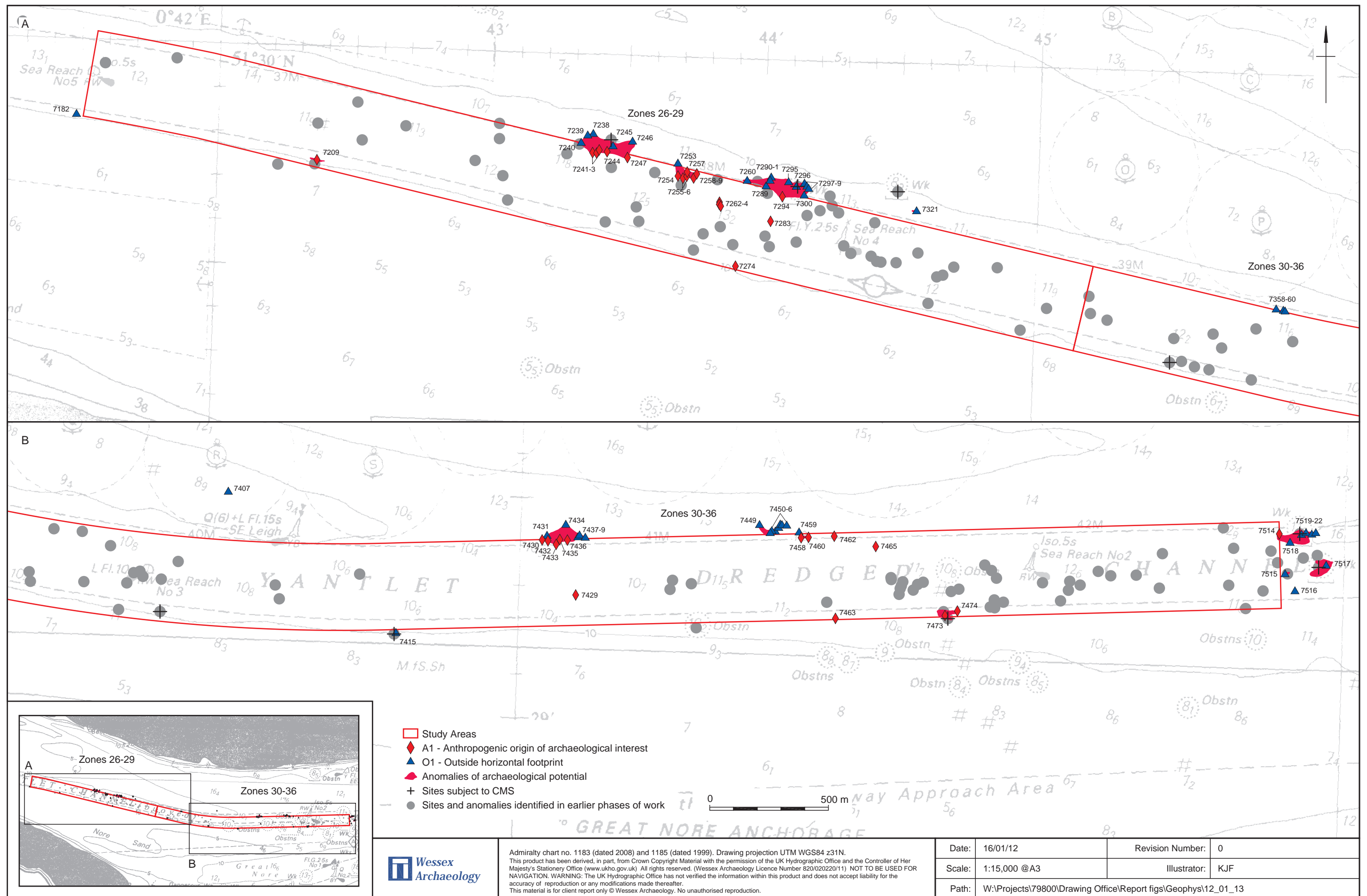
Point Survey 3089 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 9



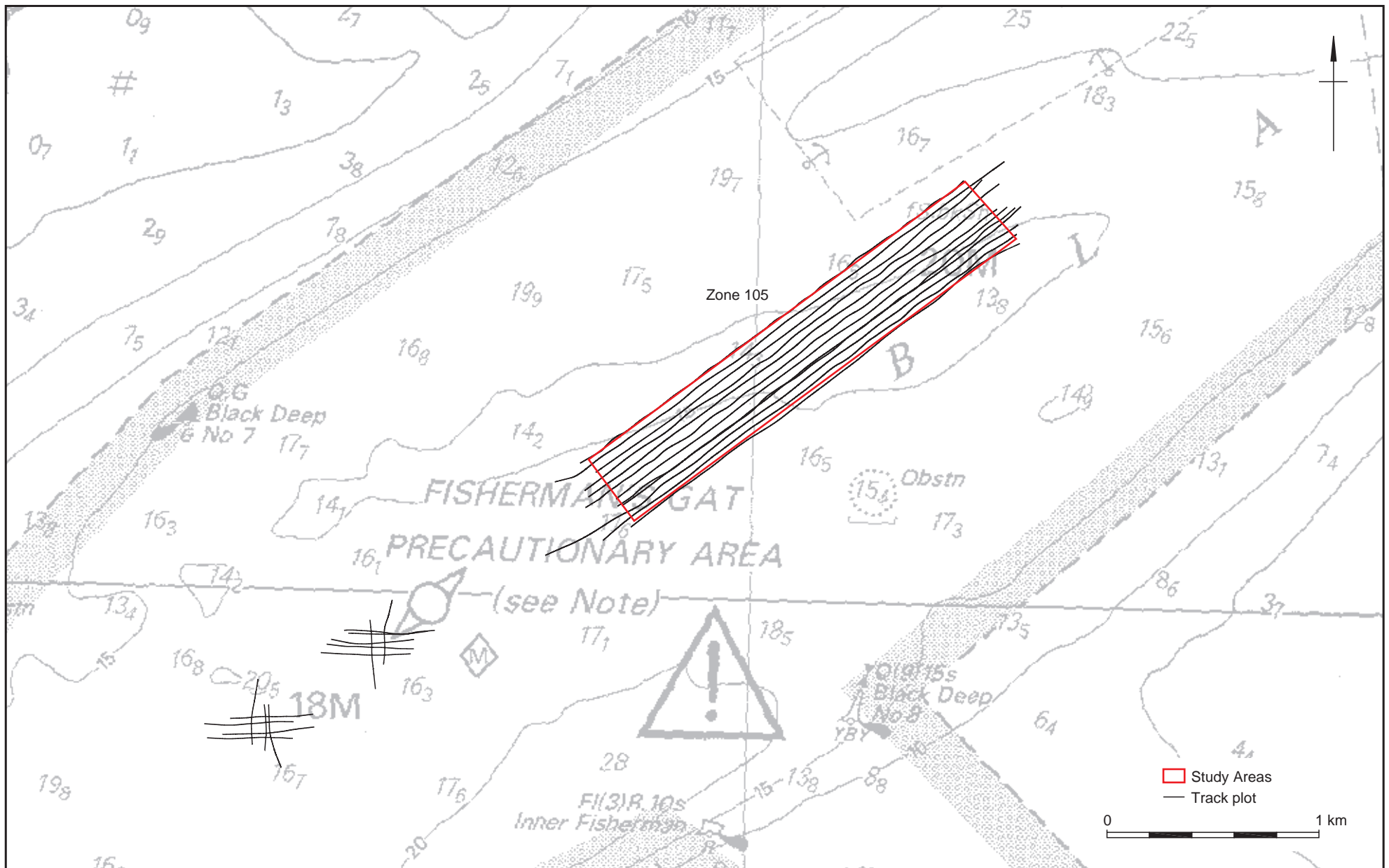
Zone 26-36 Anomalies of Archaeological Potential

Figure 10



Zone 26-36 Anomalies of Archaeological Potential

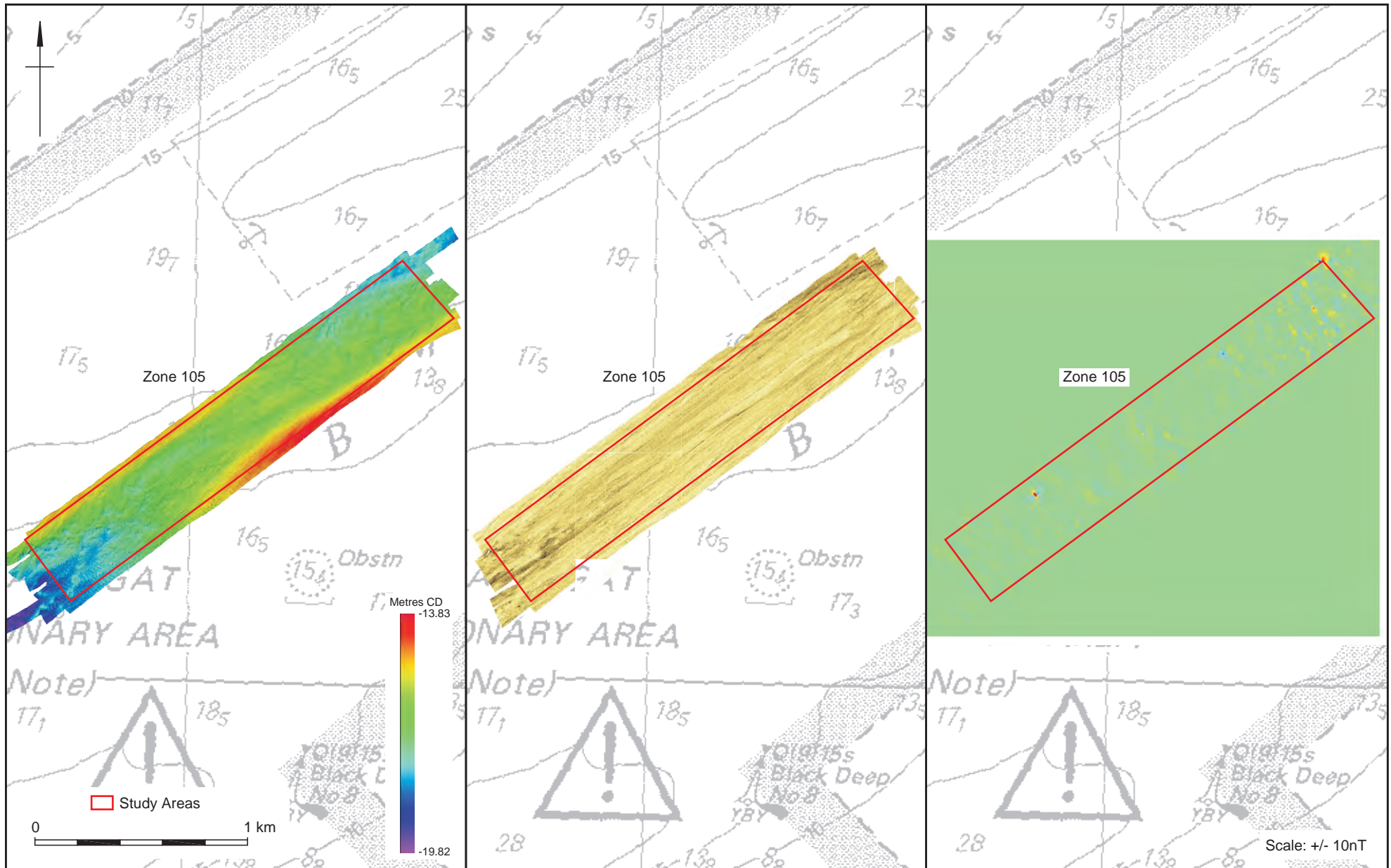
Figure 11



	<p>Admiralty chart no. 1975 (dated 2001). Drawing projection UTM WGS84 z31N. Contains Ordnance Survey data © Crown Copyright and database right 2012. This product has been derived, in part, from Crown Copyright Material with the permission of the UK Hydrographic Office and the Controller of Her Majesty's Stationery Office (www.ukho.gov.uk). All rights reserved. (Wessex Archaeology Licence Number 820/020220/11) NOT TO BE USED FOR NAVIGATION. WARNING: The UK Hydrographic Office has not verified the information within this product and does not accept liability for the accuracy of reproduction or any modifications made thereafter. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.</p>	Date:	16/01/12	Revision Number:	0
		Scale:	1:25,000 @A4	Illustrator:	KJF
		Path:	W:\Projects\79800\Drawing Office\Report figs\Geophys\12_01_13		

Zone 105 Track Plot

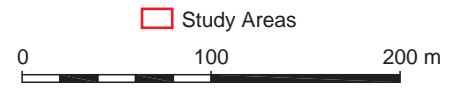
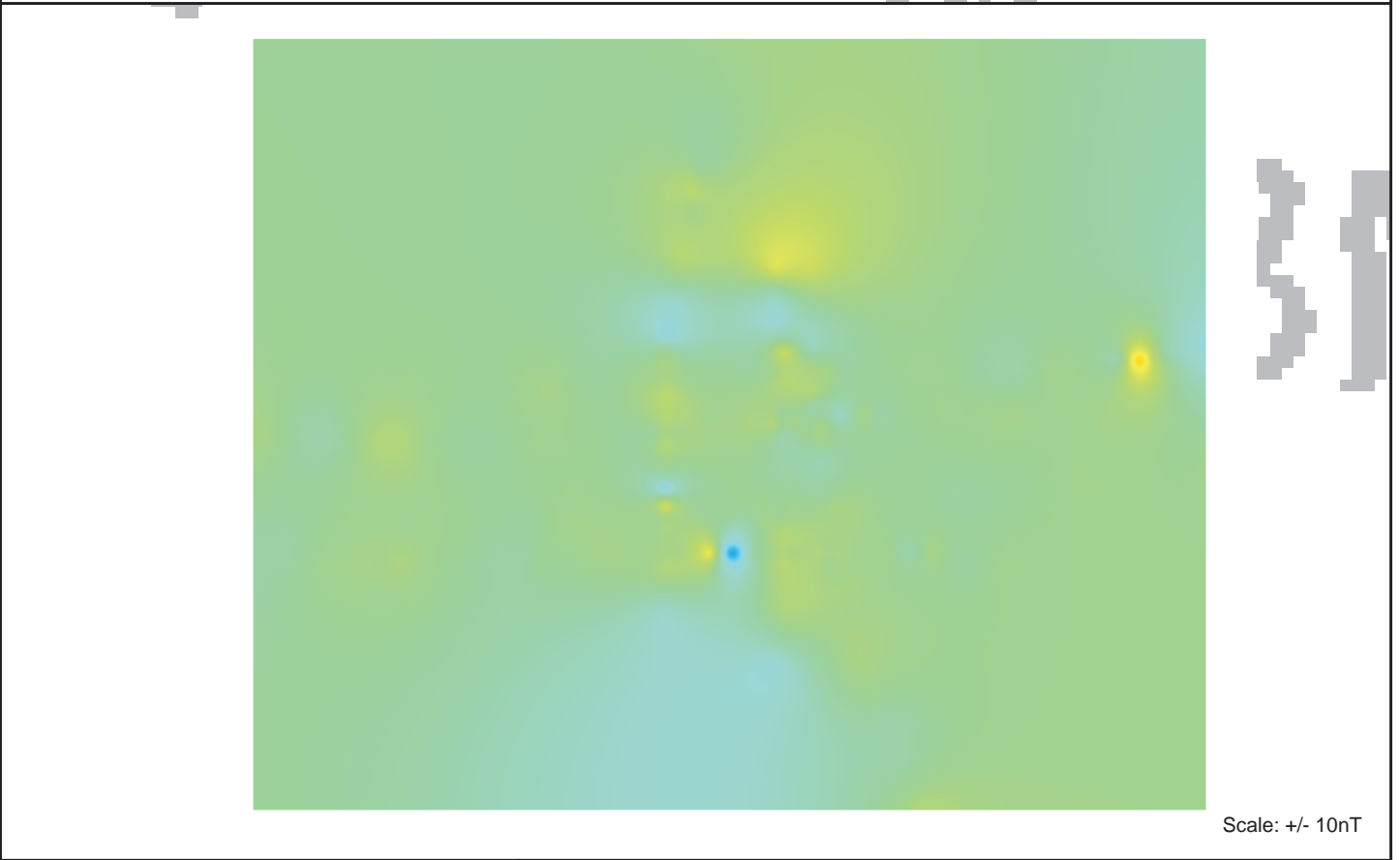
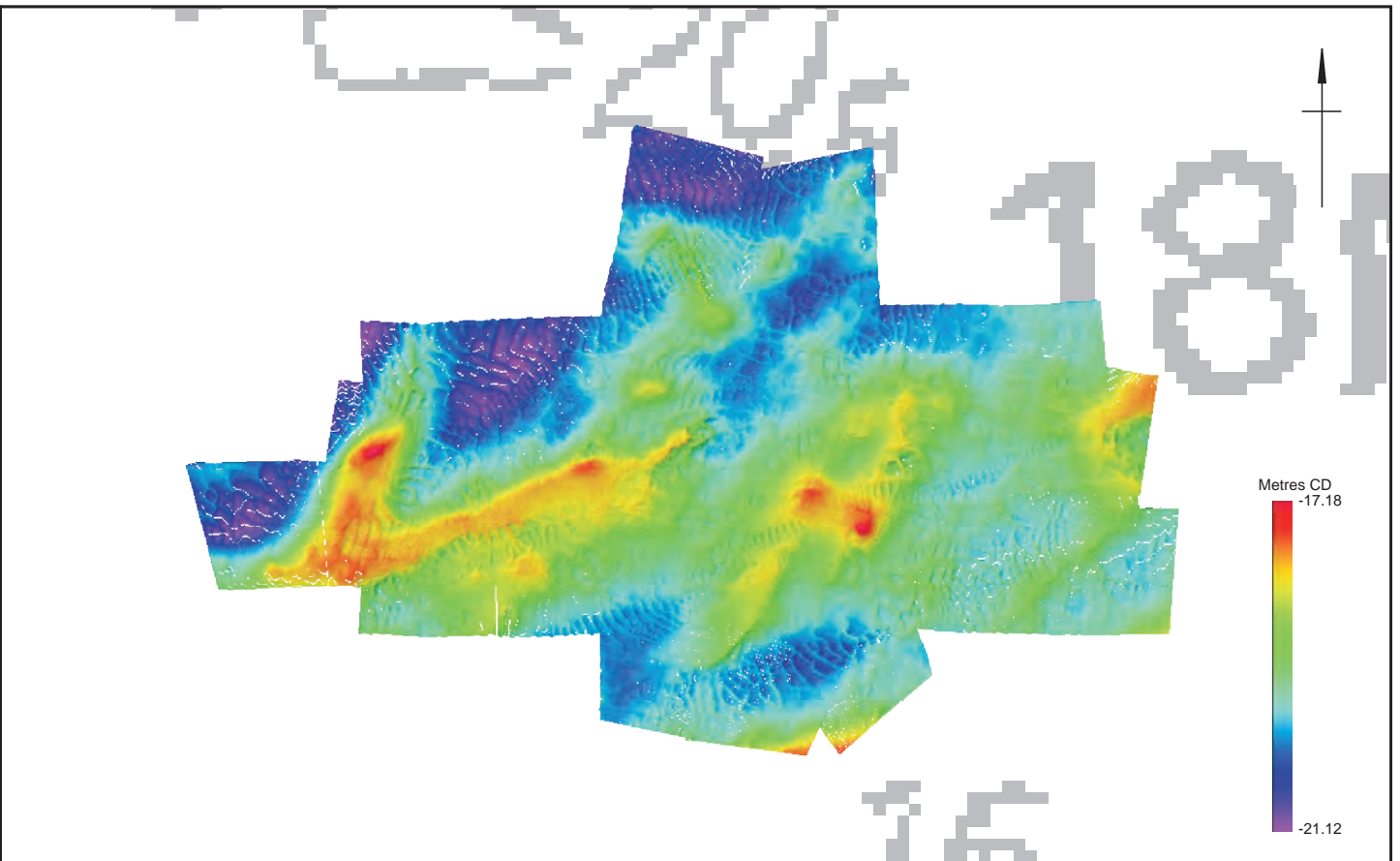
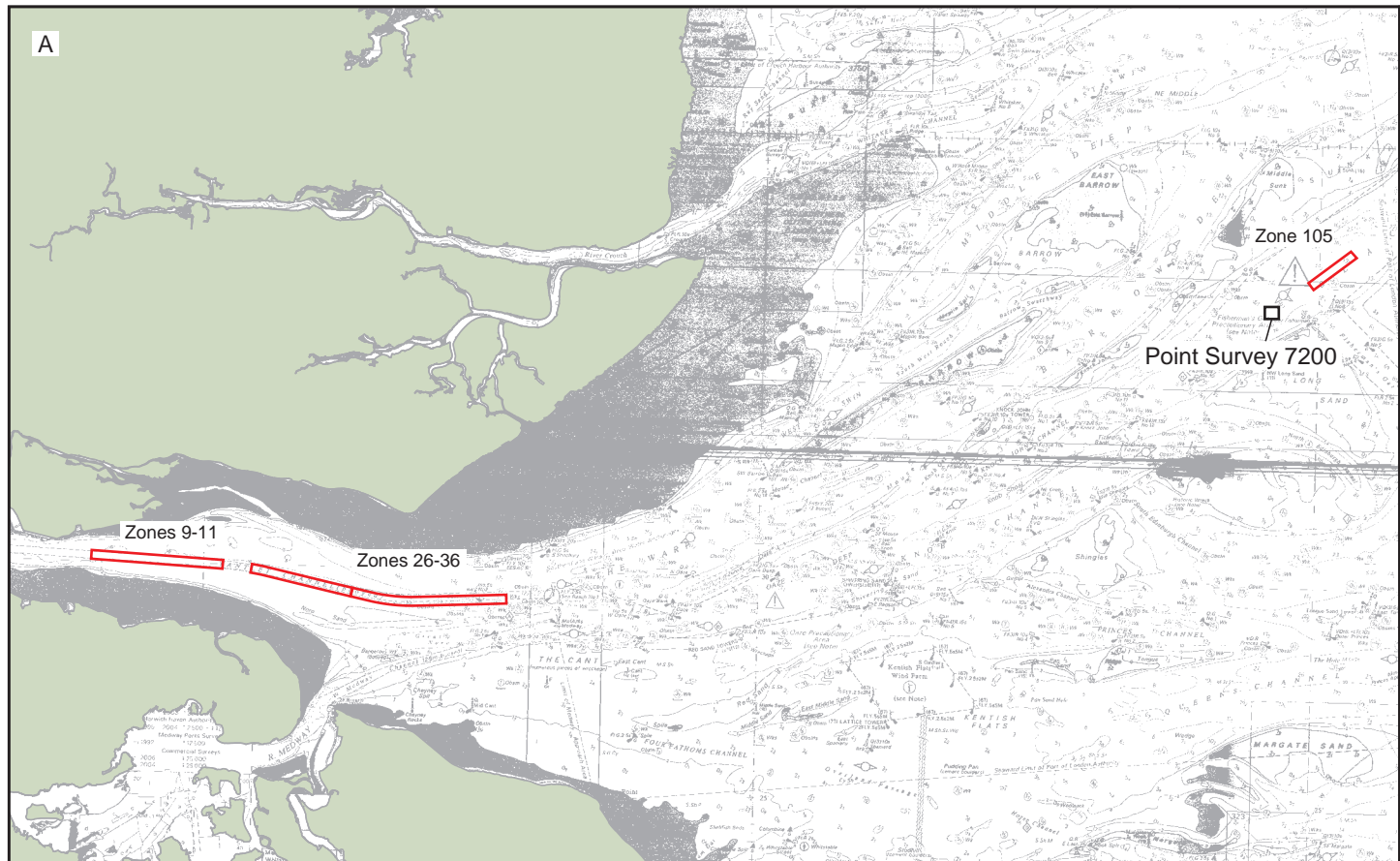
Figure 12



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Zone 105 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 13



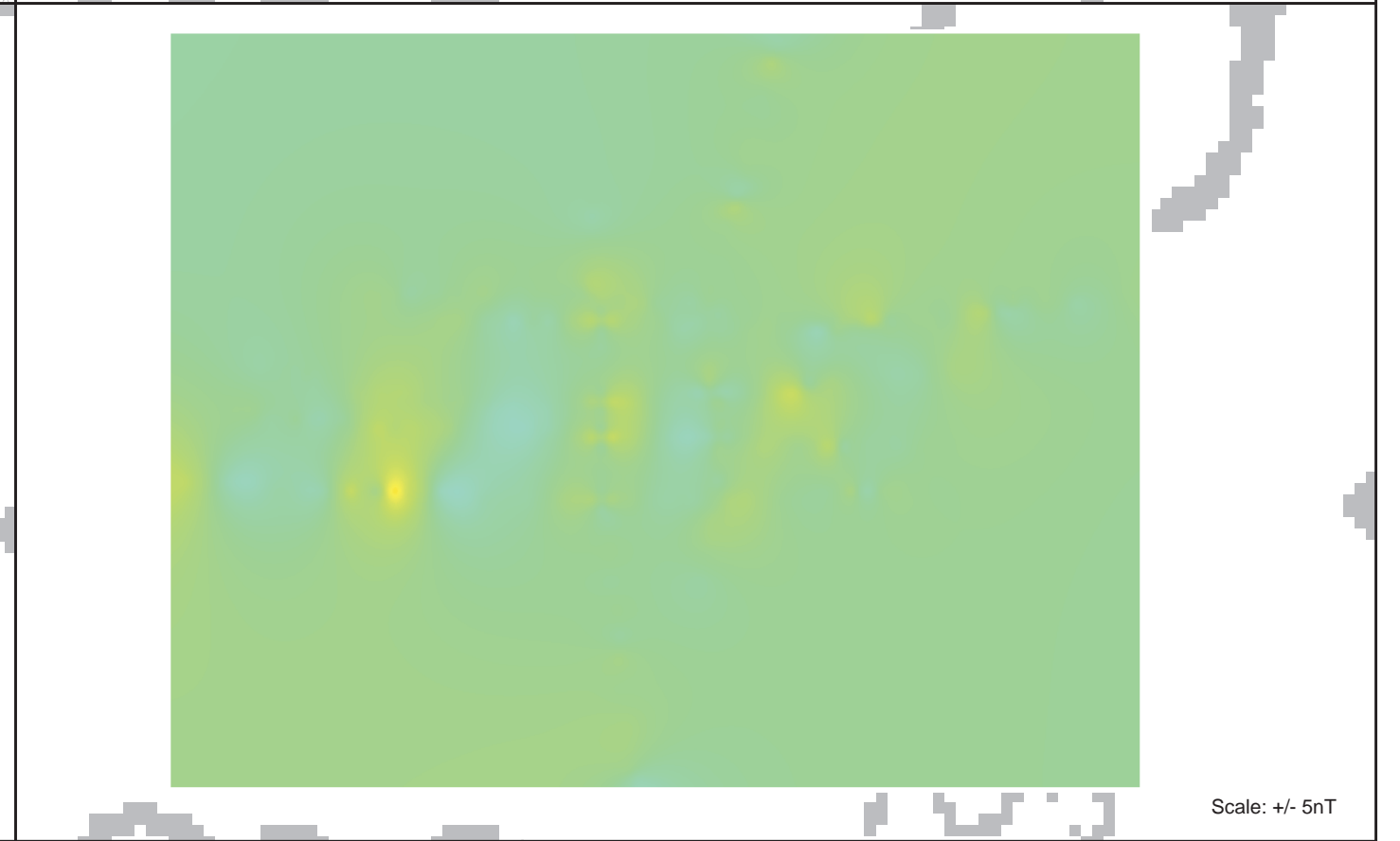
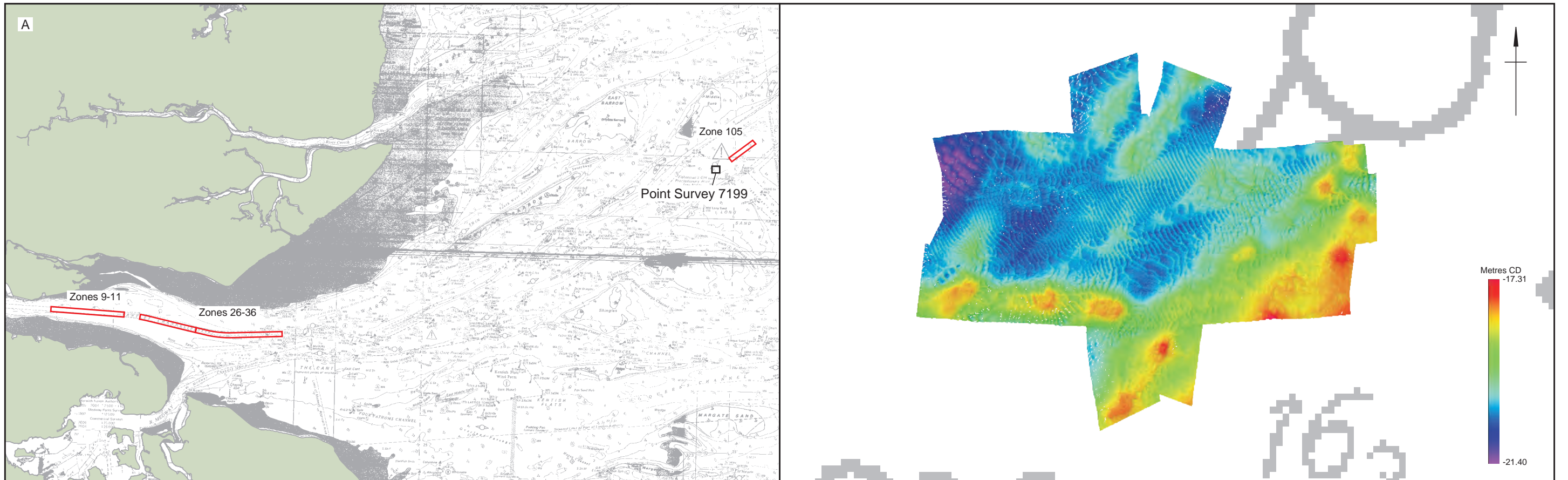
Study Areas


Admiralty chart no. 1183 (dated 2008) and 1975 (dated 2001). Drawing projection UTM WGS84 z31N.
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Point Survey 7200 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 14





 Study Areas

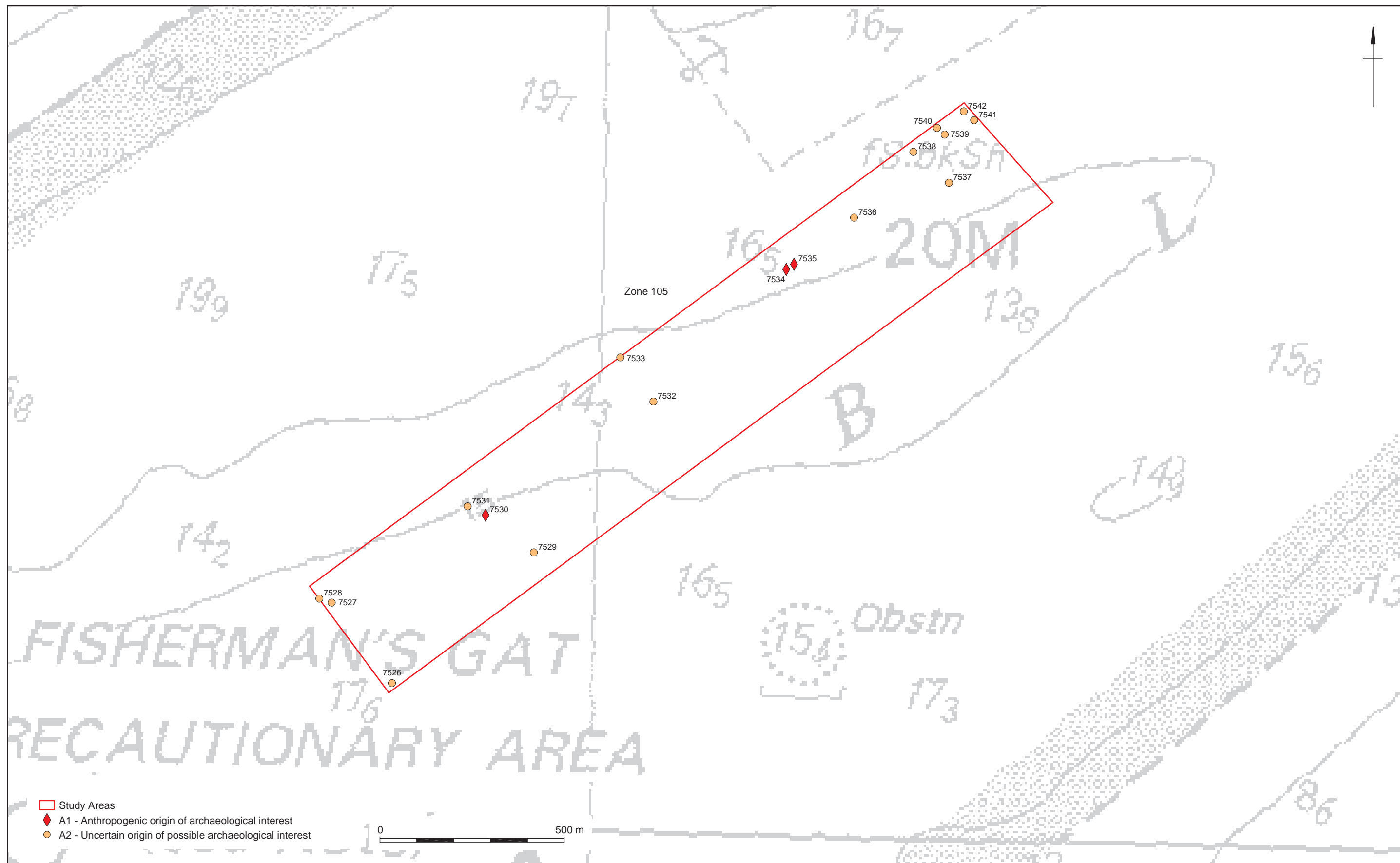


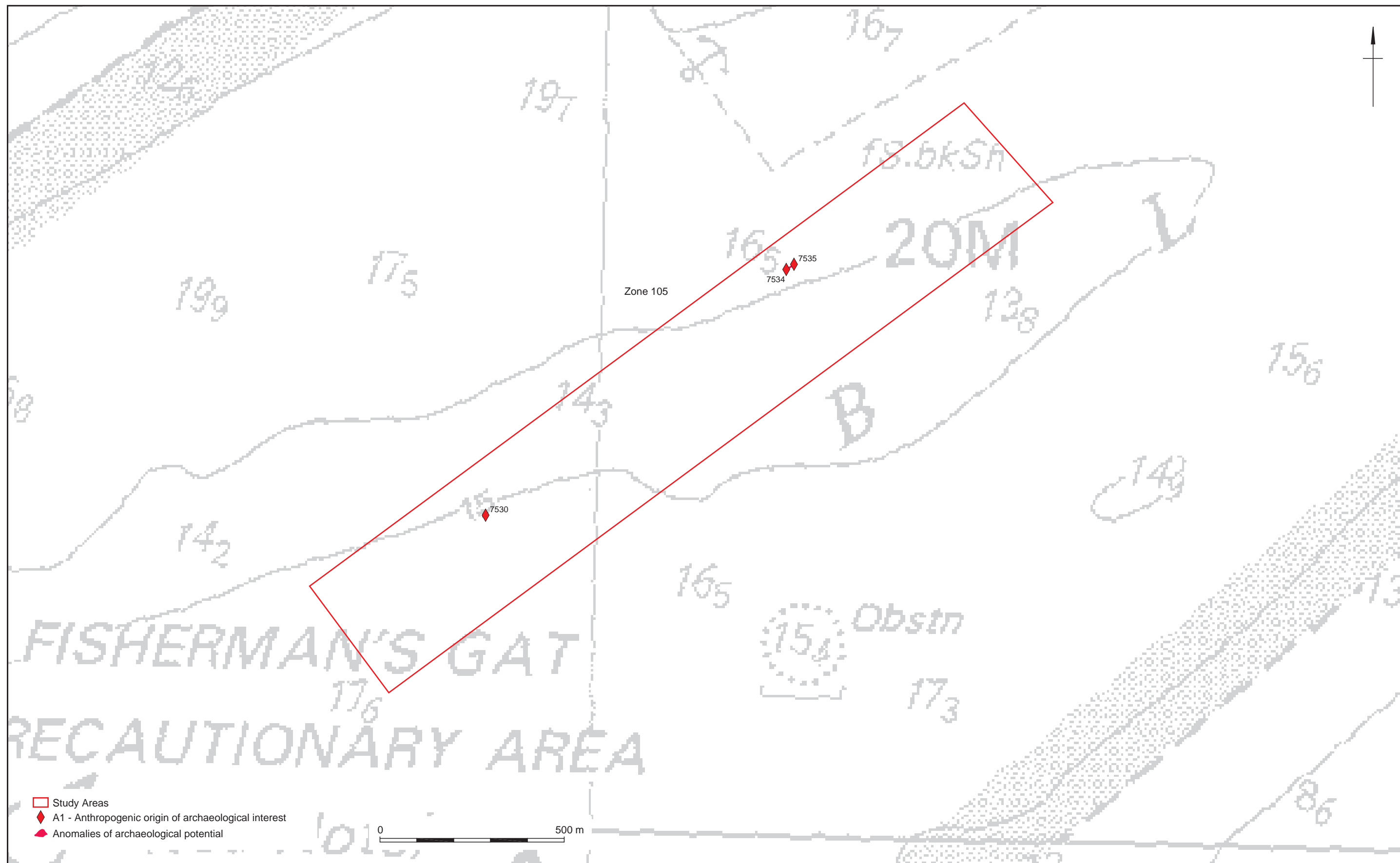
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Point Survey 7199 Bathymetry, Sidescan Sonar and Magnetometer Data

Figure 15





- Study Areas
- ◆ A1 - Anthropogenic origin of archaeological interest
- ◆ Anomalies of archaeological potential

0 500 m

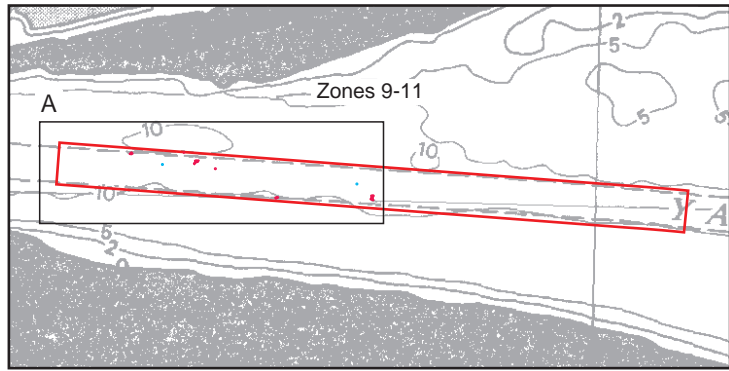
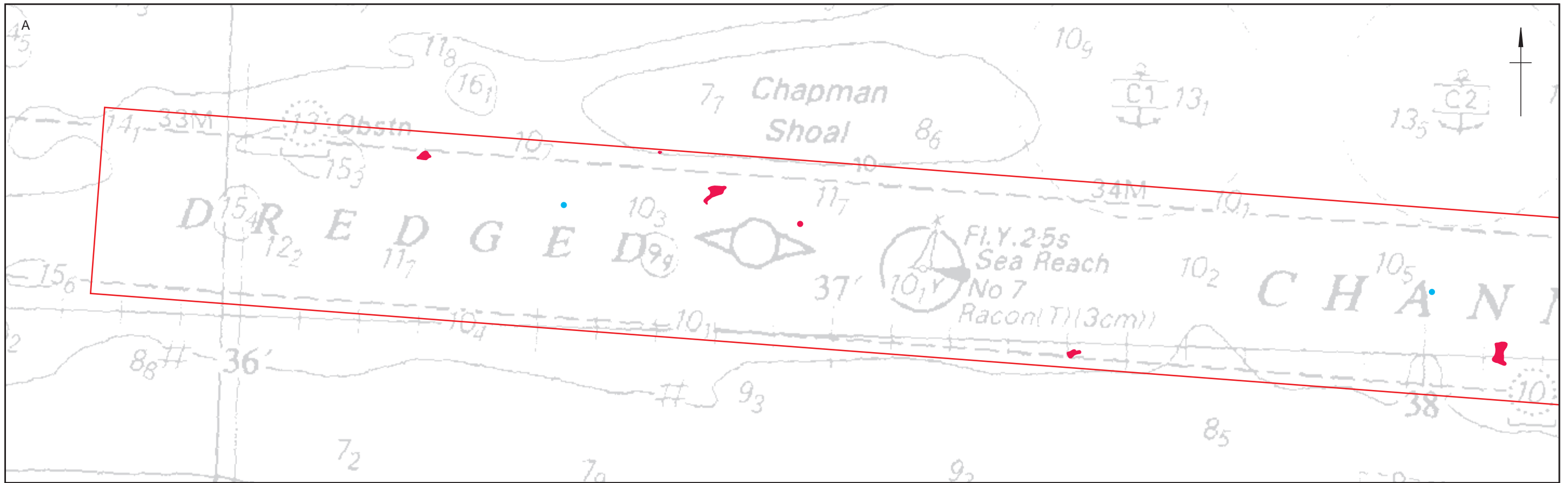


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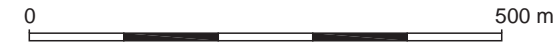
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Zone 105 Anomalies of Archaeological Potential

Figure 17



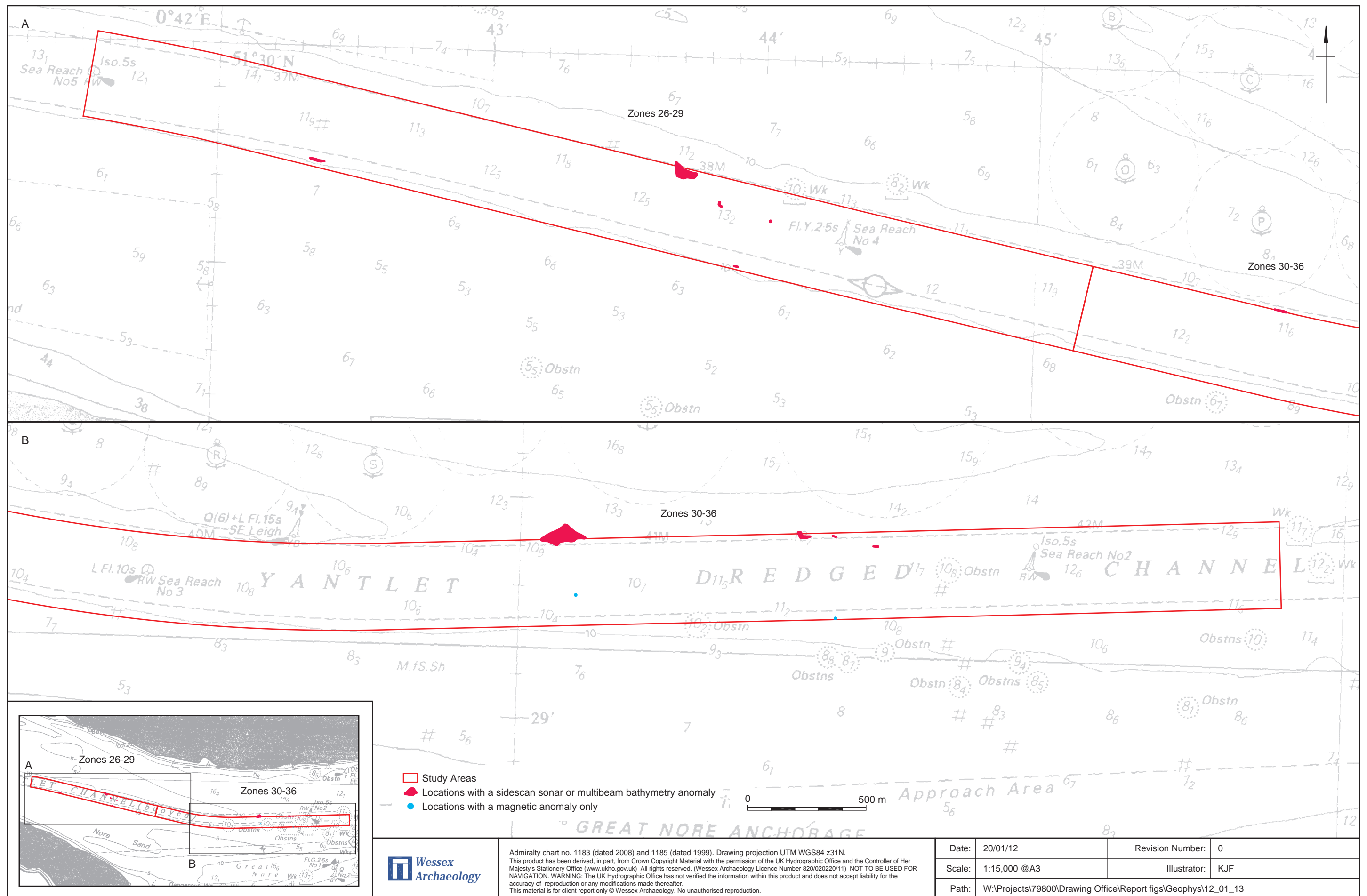
- Study Areas
- ◆ Locations with a sidescan sonar or multibeam bathymetry anomaly
- Locations with a magnetic anomaly only



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			Scale: 1:8000 @A3	Illustrator: KJF
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Zone 9-11 Anomalies which Require Avoidance or Further Investigation

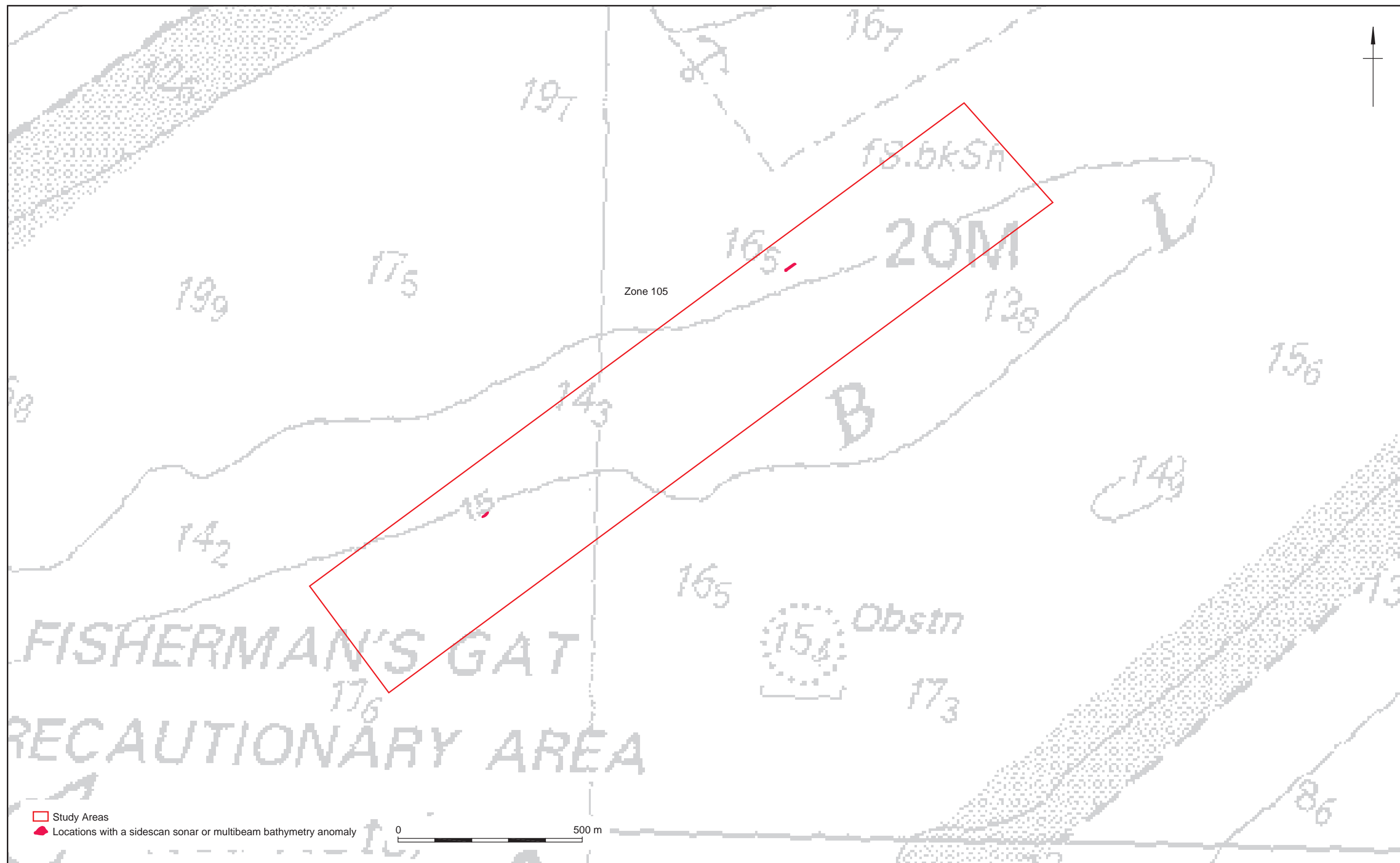
Figure 18



Zone 26-36 Anomalies which Require Avoidance or Further Investigation

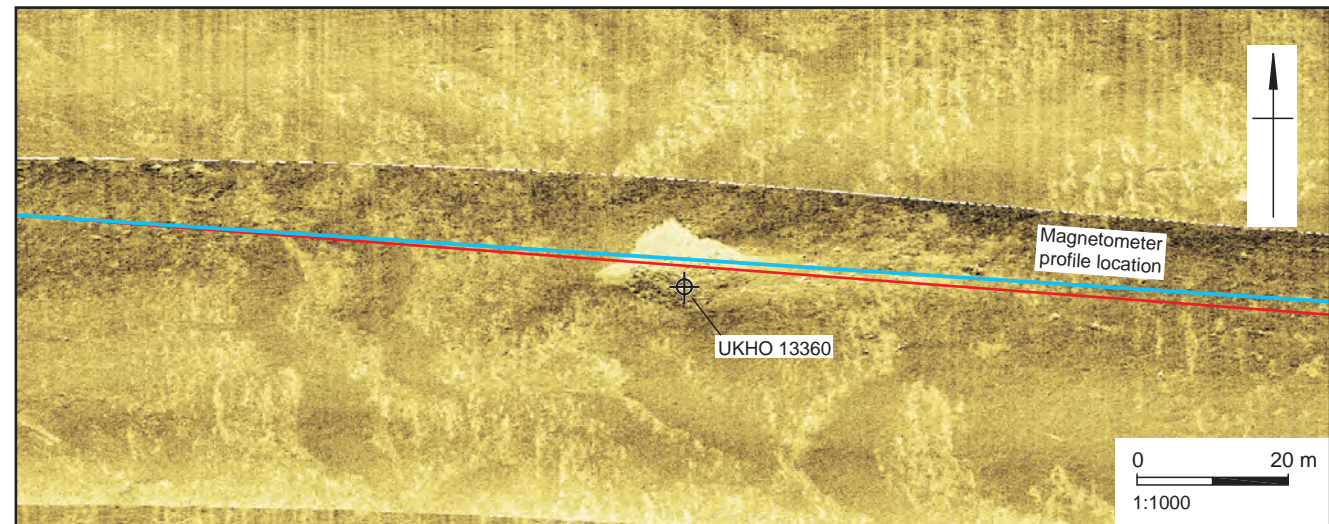
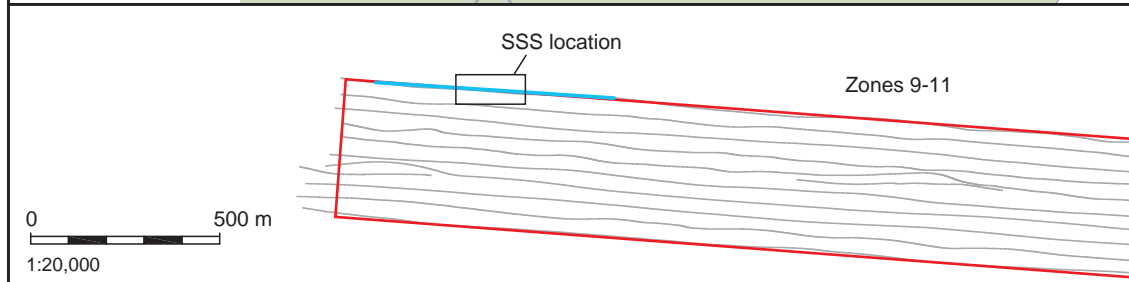
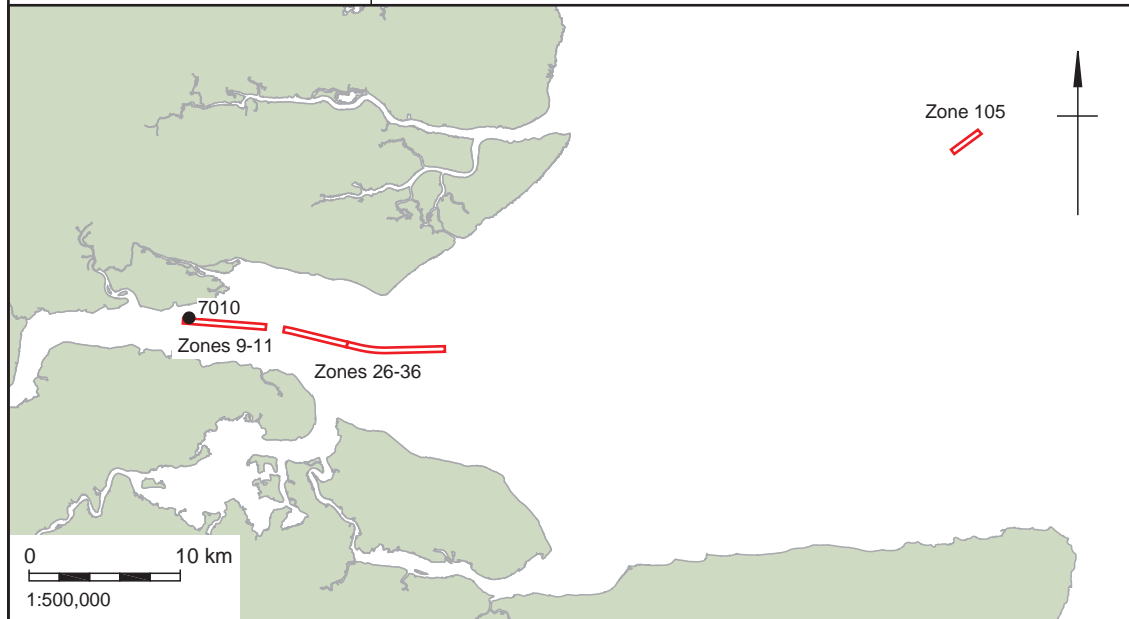
Figure 19

	Admiralty chart no. 1183 (dated 2008) and 1185 (dated 1999). Drawing projection UTM WGS84 z31N. This product has been derived, in part, from Crown Copyright Material with the permission of the UK Hydrographic Office and the Controller of Her Majesty's Stationary Office (www.ukho.gov.uk). All rights reserved. (Wessex Archaeology Licence Number 820/020220/11) NOT TO BE USED FOR NAVIGATION. WARNING: The UK Hydrographic Office has not verified the information within this product and does not accept liability for the accuracy of reproduction or any modifications made thereafter. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.		Date: 20/01/12	Revision Number: 0
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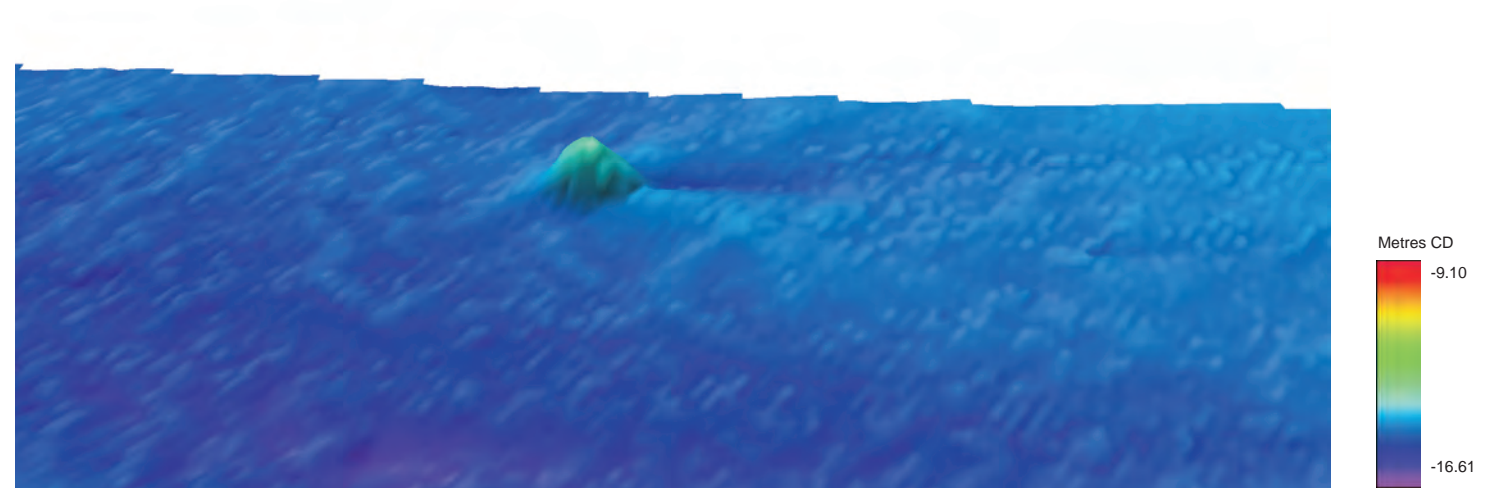


SHEET 1: WA ID 7010 POSSIBLE AIRCRAFT UKHO 13360

Location		333436 E, 5708584 N (UTM31N)	Zone	9-11
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 27.0m x 12.5m x 1.6m. Seabed mound clearly visible on the multibeam bathymetry data but less well-defined on the sidescan sonar data. Associated with a 41nT magnetic anomaly, indicating the presence of some ferrous material in the vicinity. No distinct structure identified besides the seabed mound, though one distinct piece of debris (WA ID 7022) was identified approximately 100m to the east. A large shallow scour, approximately 0.5m deep, extends eastwards of the mound. Identified approximately 5m southeast of the given UKHO position.		
Build	Type	Site has not been definitively identified.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		The site was located by the PLA in 1978 (PLA site number 698), and was interpreted as possible aircraft wreckage beneath a mound following the retrieval by PLA divers of aluminium and ferrous material from the site in 2005. Subsequent diving investigation by WA identified a mound of cobbles contain pieces of coal, bringing the existence of aircraft wreckage into question. However, the current investigation has proven the mound is still present alongside a significant magnetic anomaly, indicating the presence of buried ferrous material. This suggest there may still be aircraft (or other) wreckage buried beneath the visible mound.		

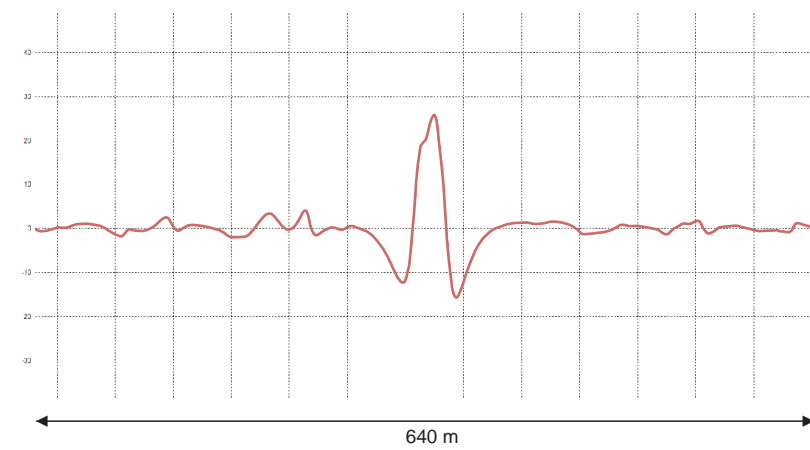


7010: Sidescan sonar



7010: Multibeam bathymetry image, x10 vertical exaggeration, facing north

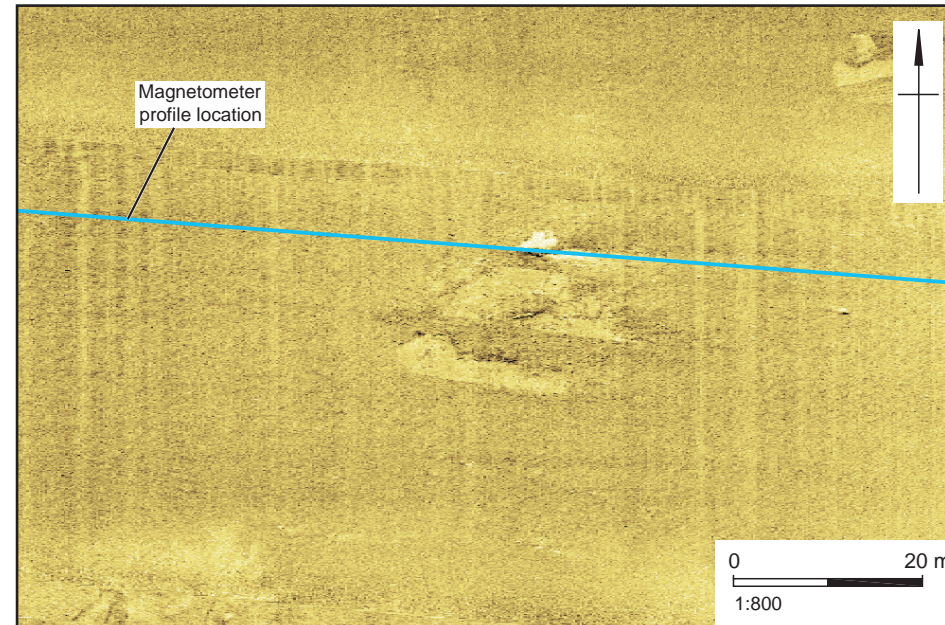
- Study Areas
- Track plot
- Magnetometer profile location
- ⊕ UKHO position



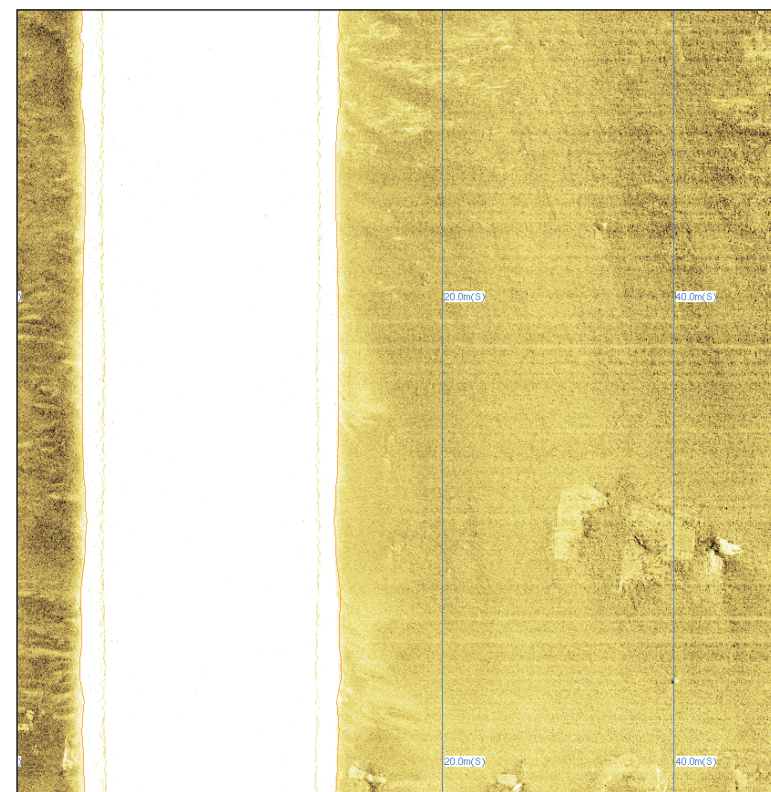
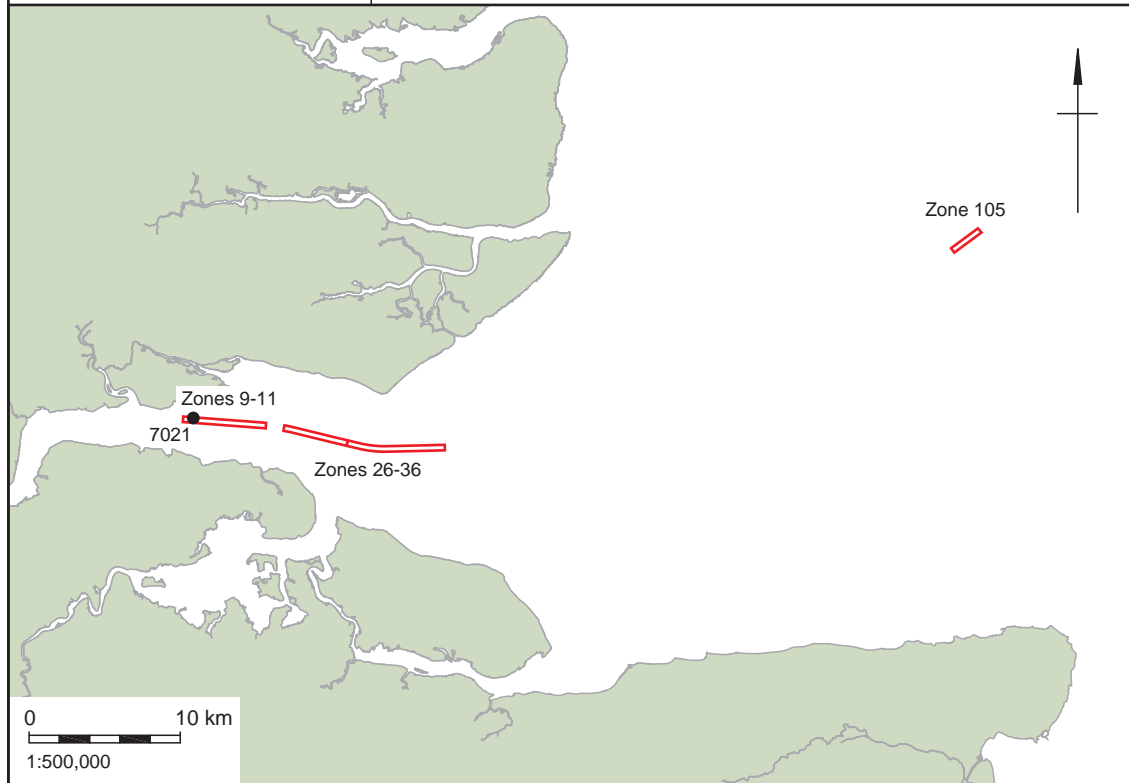
7452: Magnetometer profile

SHEET 2: WA ID 7021 DEBRIS

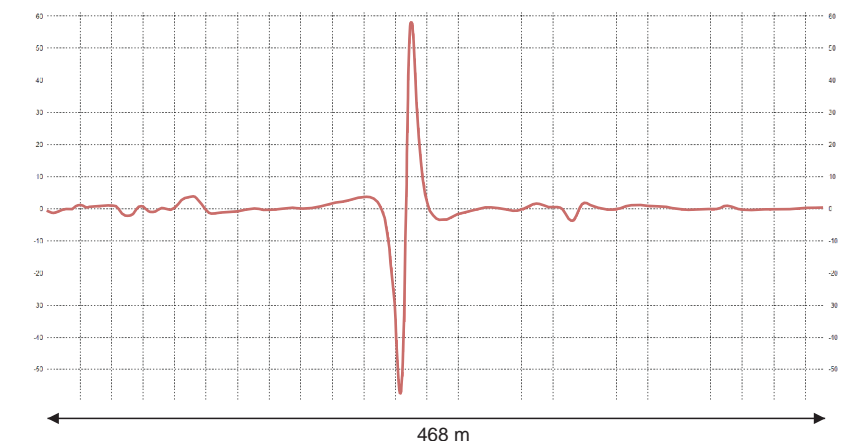
Location		333679 E, 5708527 N (UTM31N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 24.0m x 17.0m x 0.4m. Area of seafloor disturbance containing a prominent dark reflector with shadow, associated with a 99nT magnetic anomaly. Located close to the edge of a dredged area, but in relatively featureless seabed.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located towards the northern edge of the dredged channel. Area of seafloor disturbance and dark reflector possibly indicative of debris located just beneath the superficial sediment. The large associated magnetic anomaly possibly indicates ferrous debris, or the remains of a badly degraded structure.		



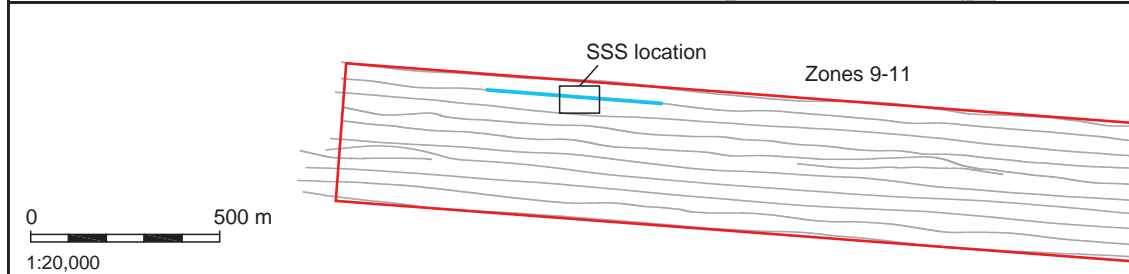
7021: Sidescan sonar mosaic



7021: Sidescan sonar waterfall

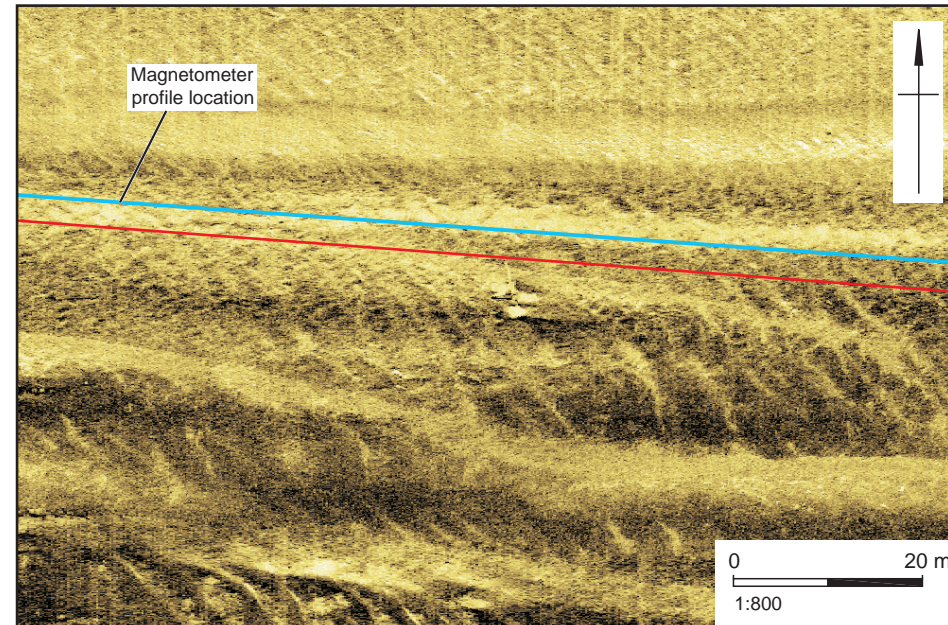


7021: Magnetometer profile

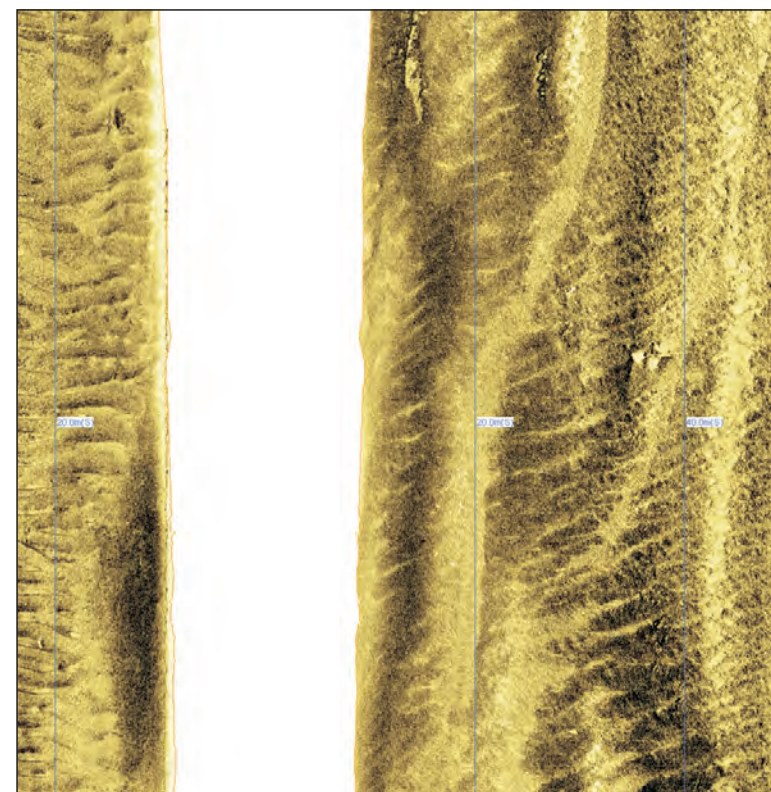
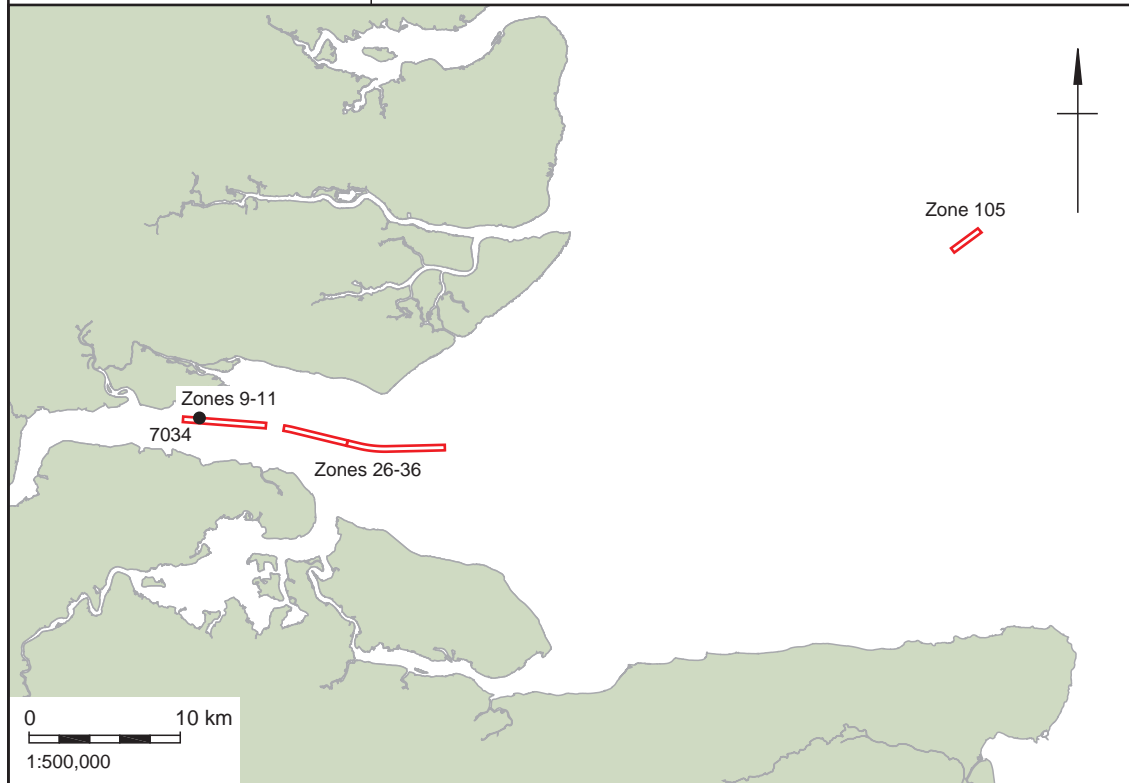


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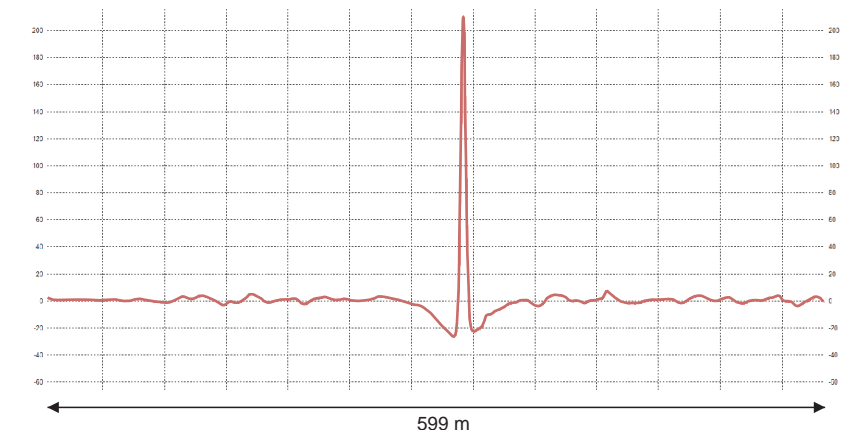
Location		334136 E, 5708533 N (UTM31N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 5.4m x 3.9m x 0.8m. A relatively indistinct dark reflector with large shadow and a surrounding area of seafloor disturbance. Associated with a large 236nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the northern edge of the dredged channel. Possibly a piece of ferrous debris, though the amplitude of the magnetic anomaly indicate the possibility of a large amount of buried ferrous debris in the vicinity.		



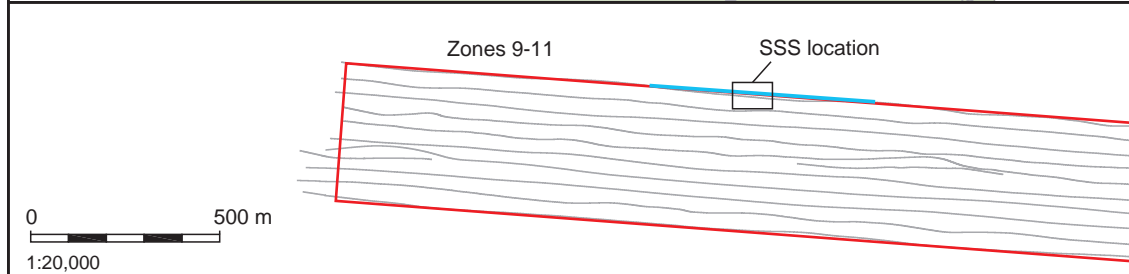
7034: Sidescan sonar mosaic



7034: Sidescan sonar waterfall



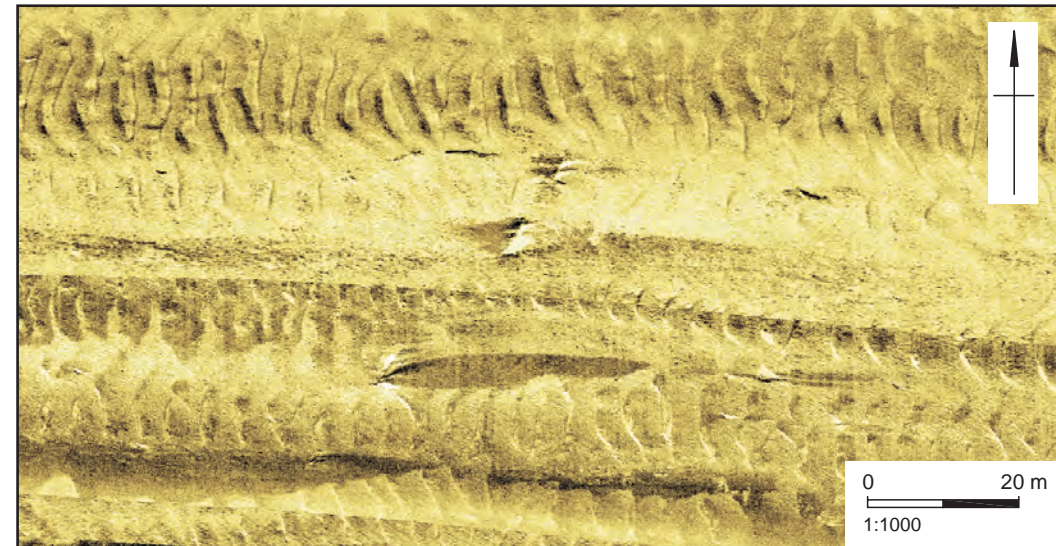
7034: Magnetometer profile



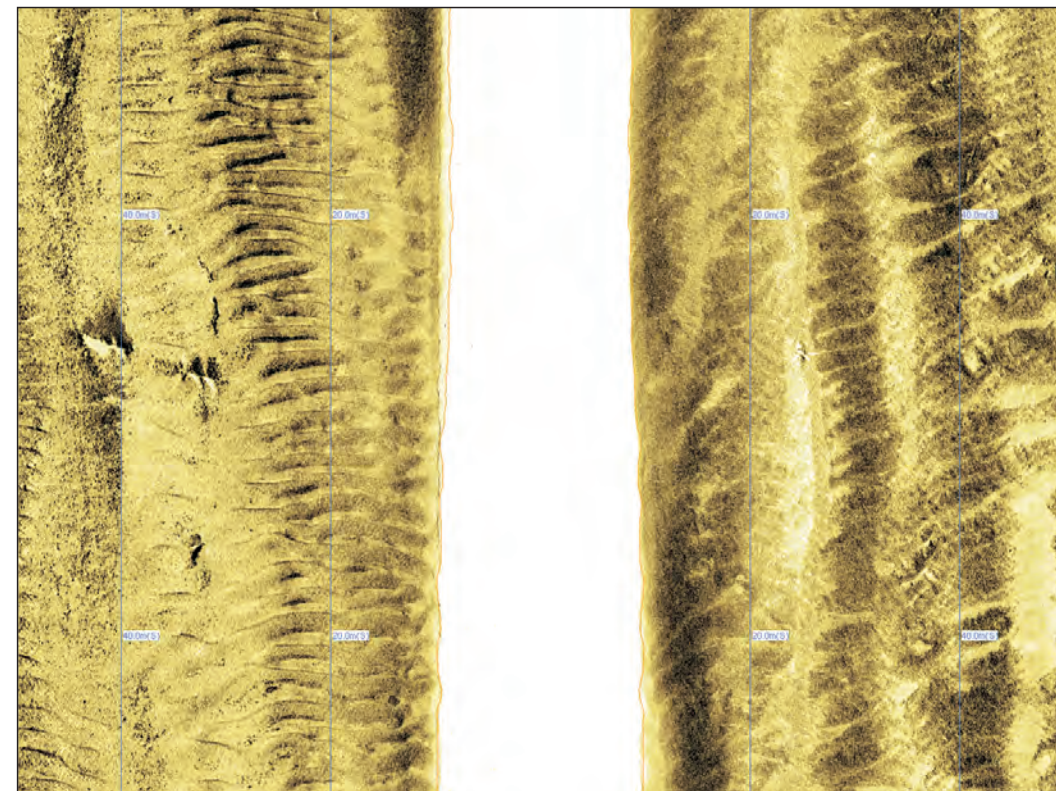
- Study Areas
- Track plot
- Magnetometer profile location

SHEET 4: WA ID 7050, 7051 & 7052 DEBRIS

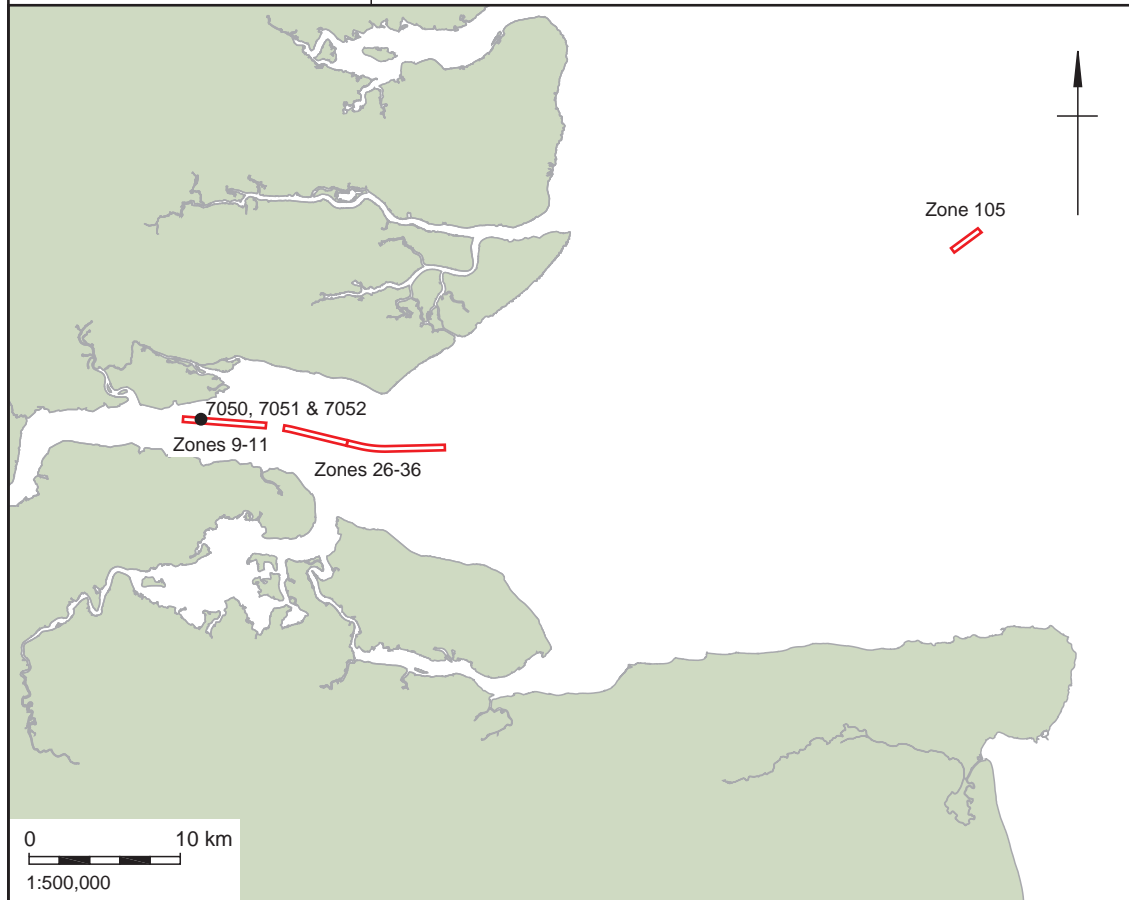
Location		334255 E, 5708459 N (UTM31N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 15.0m x 0.5m x 0.0m. (7052) A collection of 3 main dark reflectors: 7050, 7051 and 7052. 7050 and 7052 comprise relatively short but straight linear dark reflectors along a similar alignment, with 7050 having a shallow scour extending eastwards from the anomaly. 7051 is a curvilinear dark reflector extending at an angle from the northern end of 7052. None of these features have been associated with a magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Located within the dredged channel, to the south of Chapman Shoal. The strong, straight edged nature of the features suggest they are not natural features and are possibly piece of debris, though the lack of a magnetic anomaly in the vicinity indicates any debris is likely to be non-ferrous in nature. The similar alignment of features 7050 and 7052 suggest they could possibly be the same partially buried feature.		



7050, 7051 & 7052: Sidescan sonar mosaic



7050, 7051 & 7052: Sidescan sonar waterfall



Study Areas



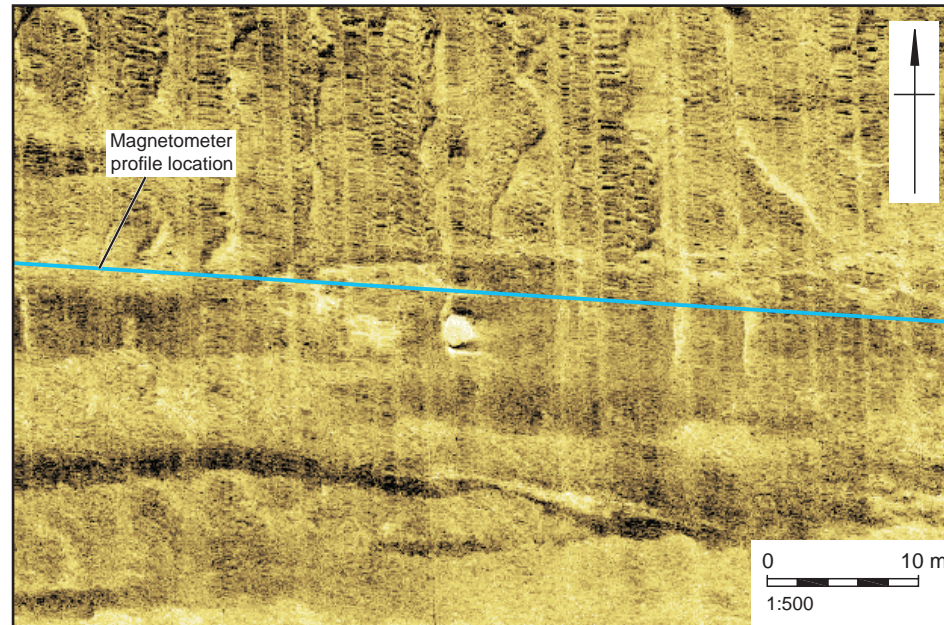
Drawing projection: UTM WGS84 z31N.
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Date: 17/01/12 Revision Number: 0 Illustrator: KJF

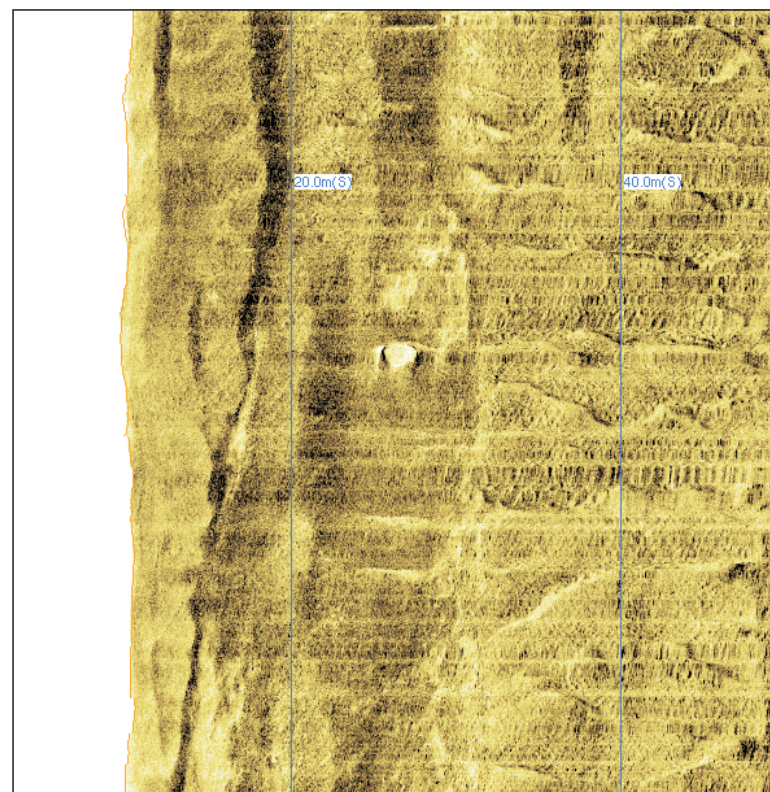
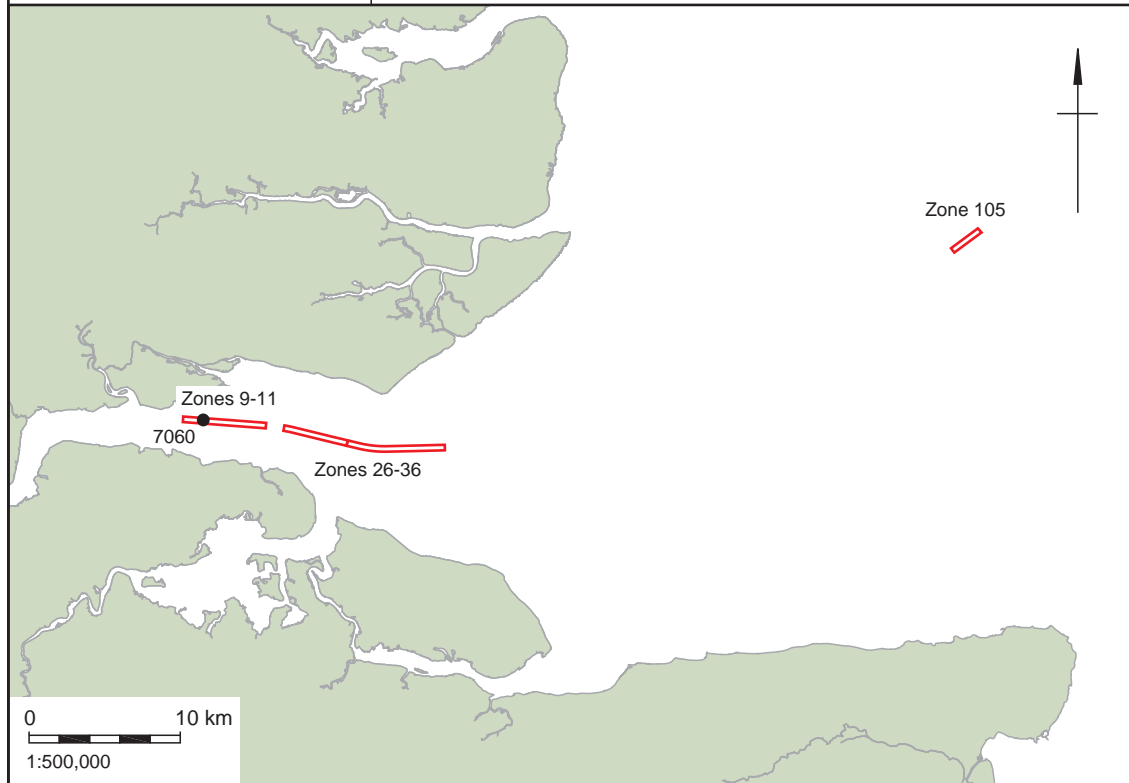
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SHEET 5: WA ID 7060 DEBRIS

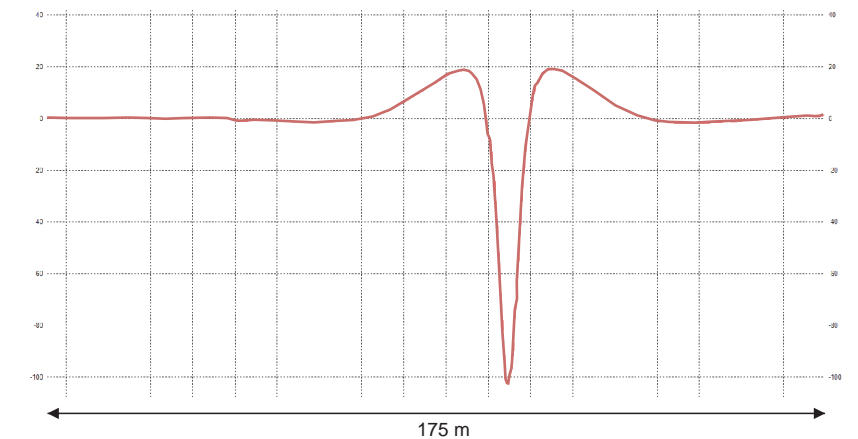
Location		334410 E, 5708393 N (UTM31N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 1.5m x 0.3m x 0.7m. A distinct dark reflector with a large shadow, though data is unclear and could be a circular feature with a central depression. Associated with a large 103nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyards			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located towards the centre of the dredged channel, south of Chapman Shoal. Possible piece of ferrous debris, though the large associated magnetic anomaly possibly indicates further buried ferrous debris in the vicinity.		



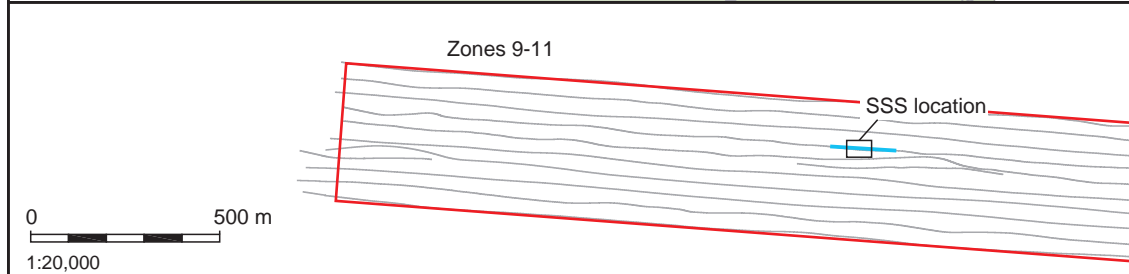
7060: Sidescan sonar mosaic



7060: Sidescan sonar waterfall



7060: Magnetometer profile



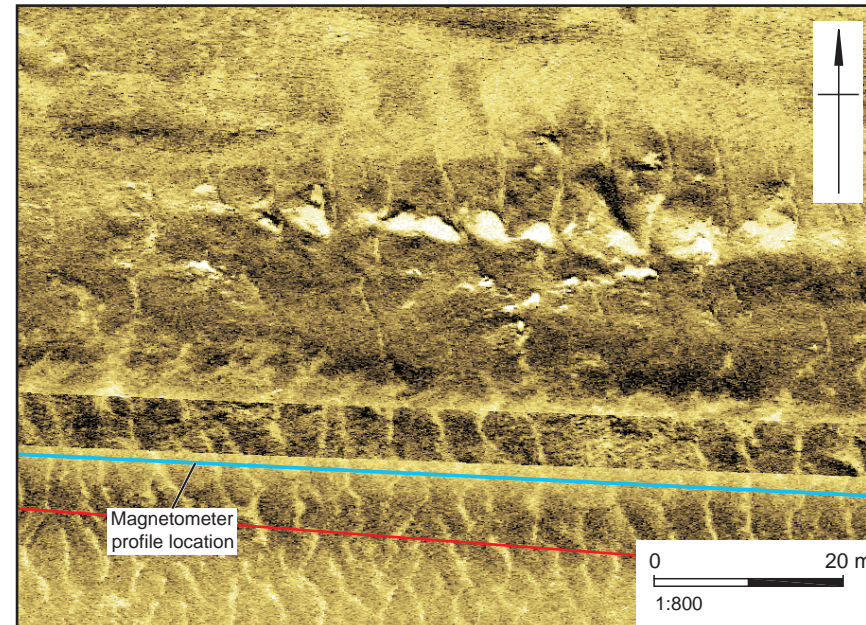
- ▭ Study Areas
- Track plot
- Magnetometer profile location



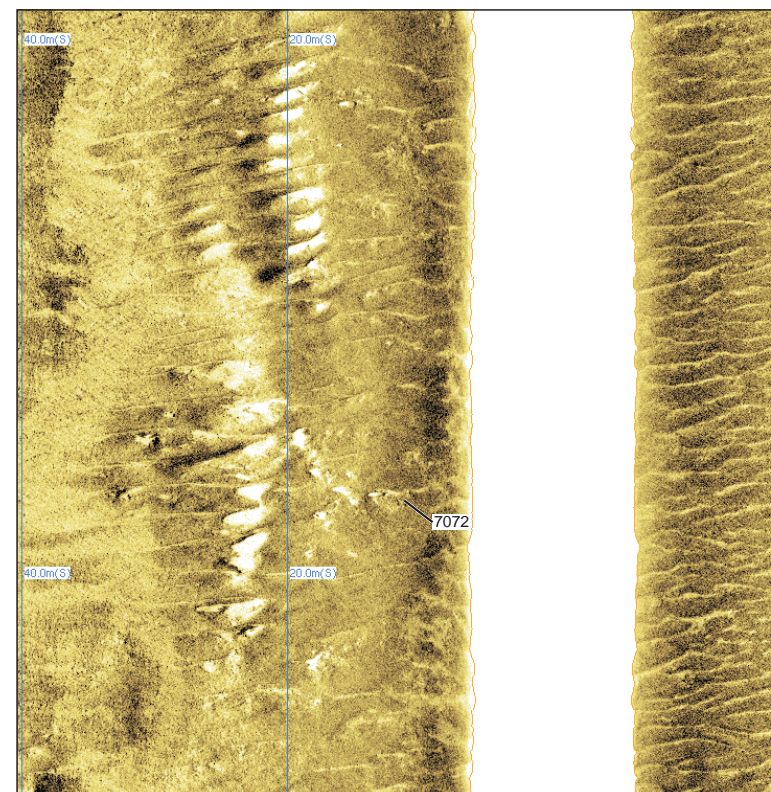
Drawing projection: UTM WGS84 z31N.
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Date:	01/02/12	Revision Number:	0	Illustrator:	KJF
Path:	W:\Projects\79800\Drawing Office\Report figs\Geophys\12_01_13				

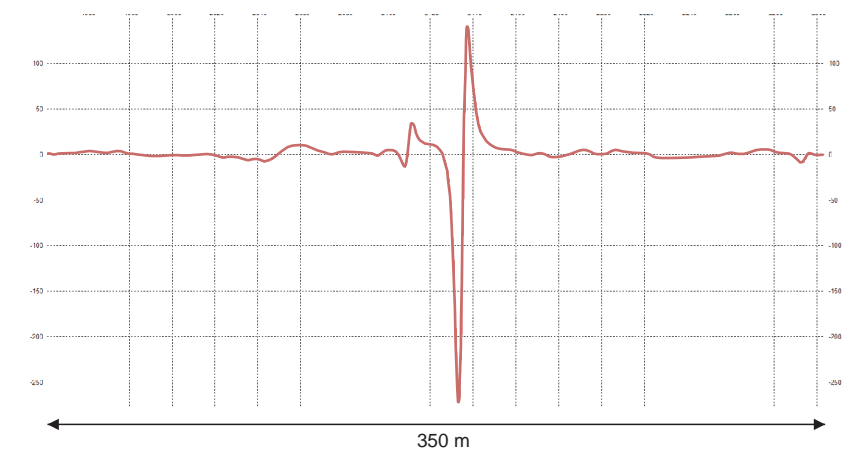
Location		410399 E, 5968036 N (UTM30N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 29.5m x 10.3m x 0.5m. An area of irregular dark reflectors, possibly seafloor disturbance, containing a distinct dark reflector with shadow measuring up to 0.5m in height. Associated with a large 411nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyards			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the southern edge of the dredged channel. The feature is very poorly defined, apart from the main dark reflector, though the large magnetic anomaly suggests the presence of a large amount of buried ferrous debris within the immediate vicinity.		



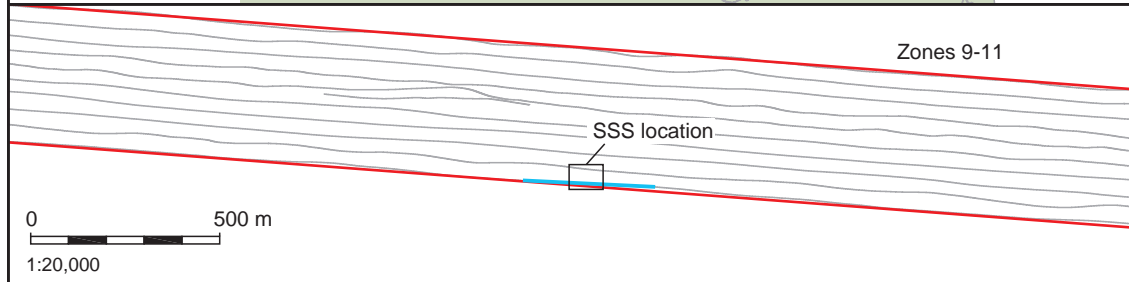
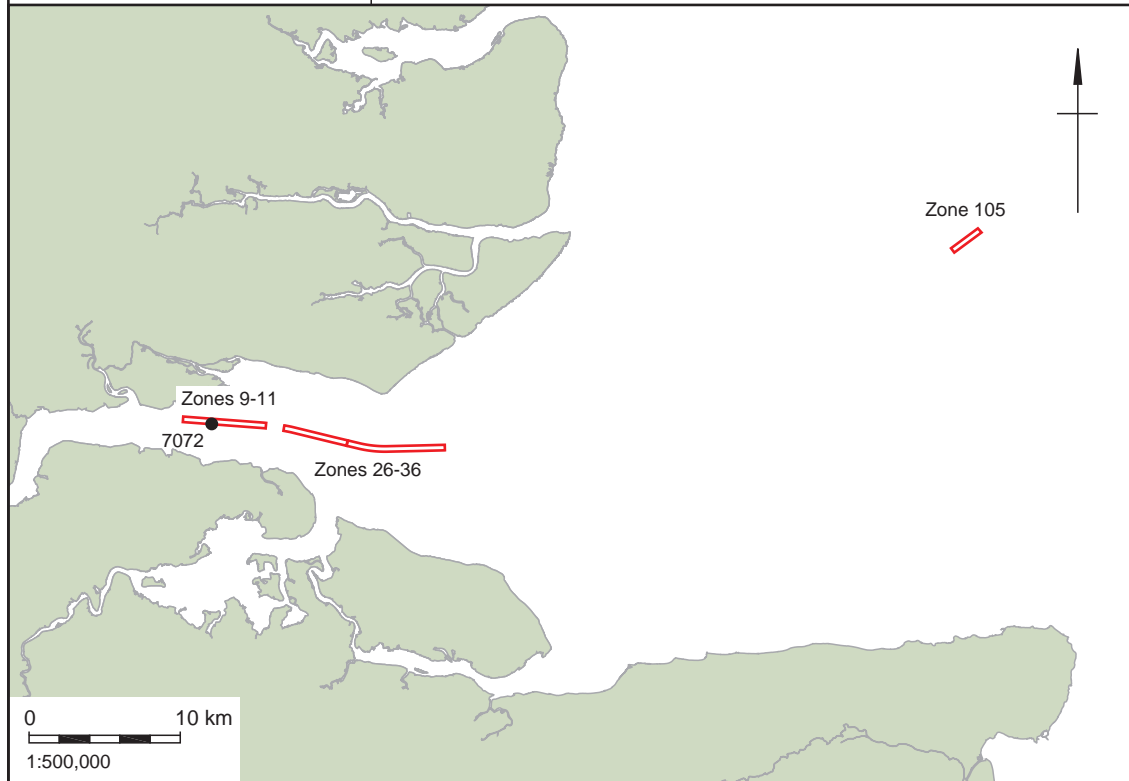
7072: Sidescan sonar mosaic



7072: Sidescan sonar waterfall



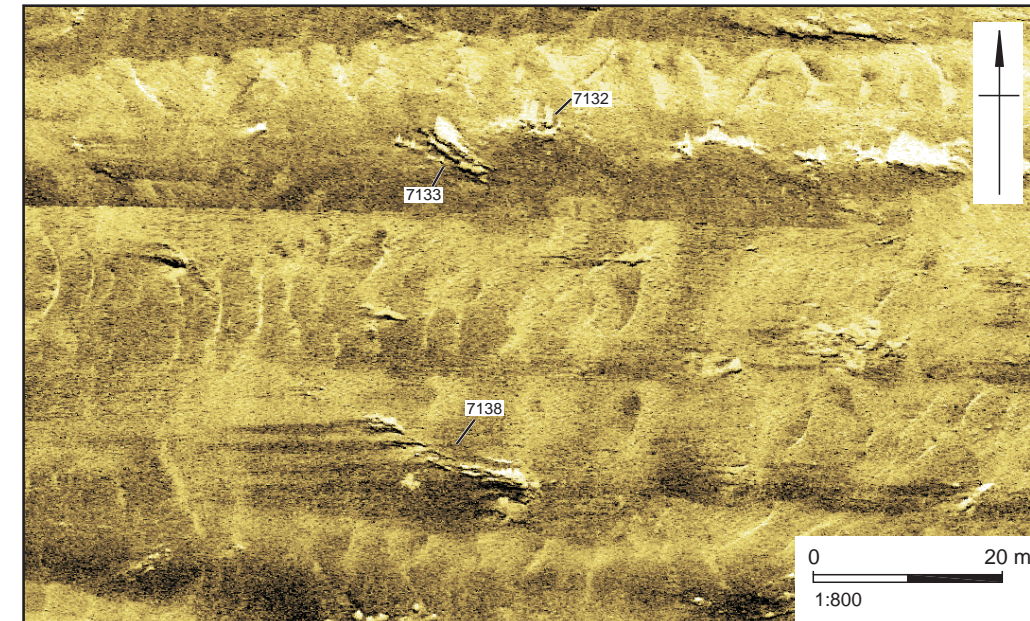
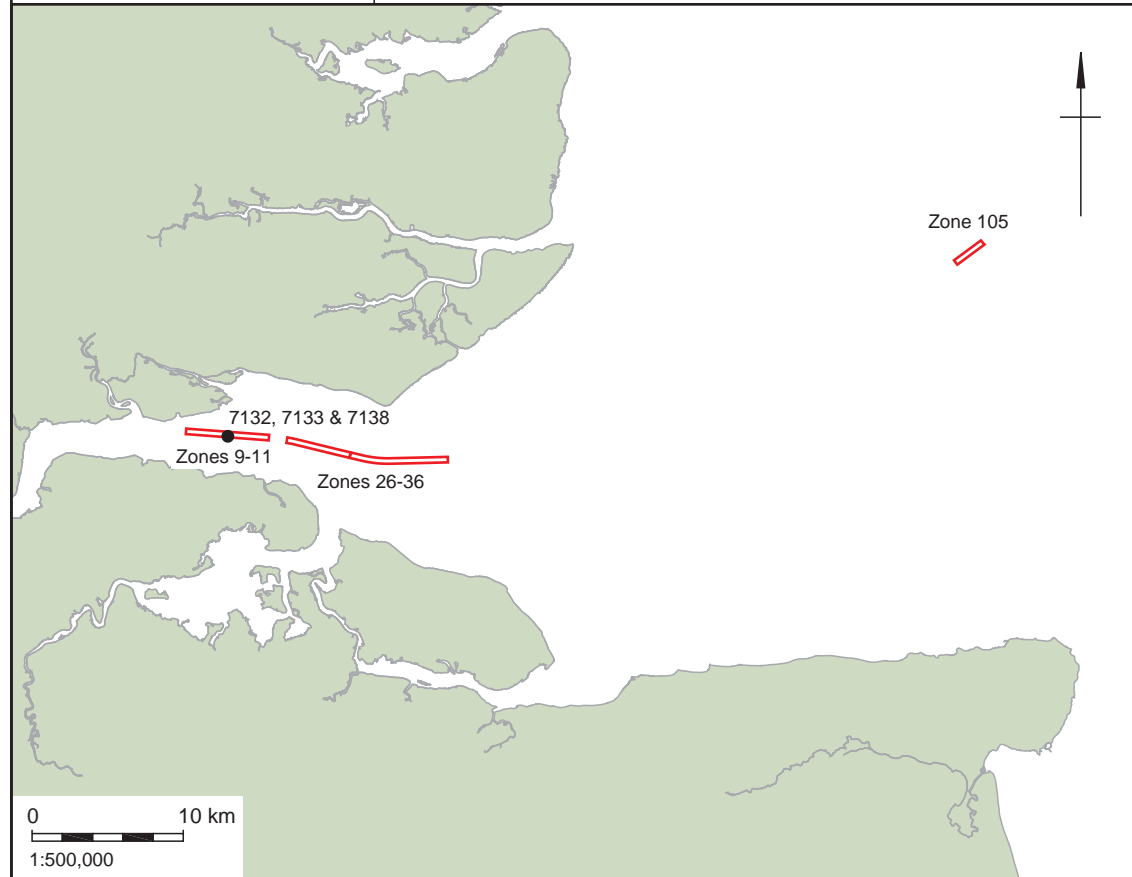
7072: Magnetometer profile



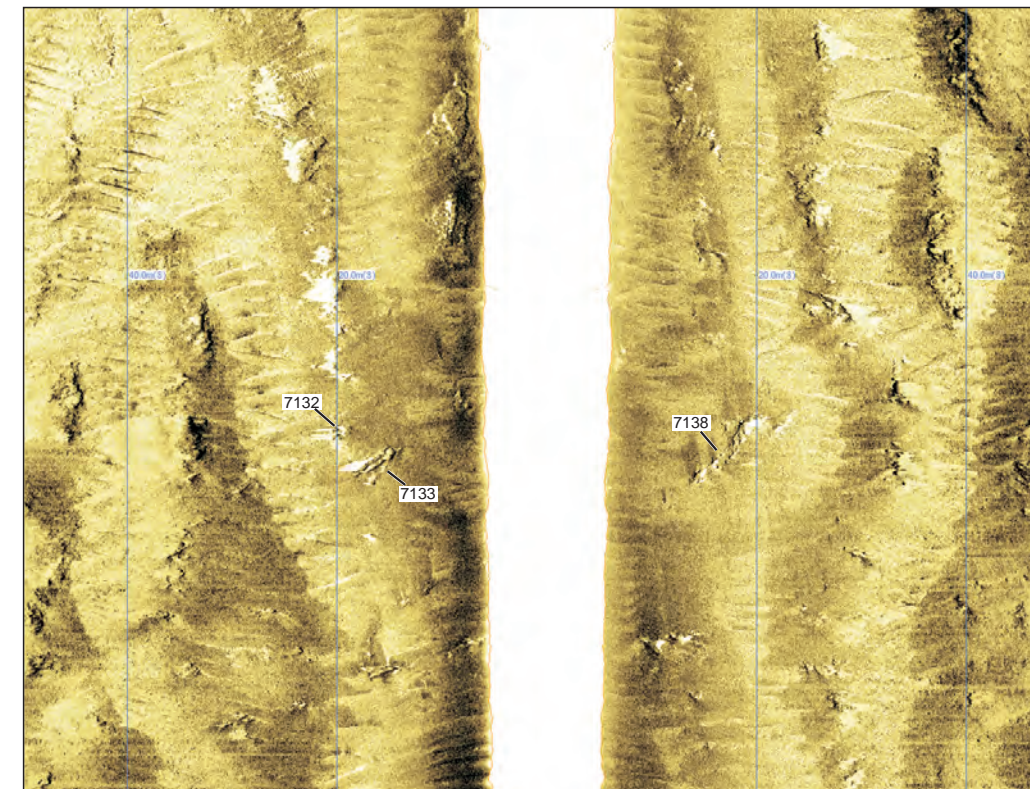
- ▭ Study Areas
- Track plot
- Magnetometer profile location

SHEET 7: WA ID 7132, 7133 & 7138 DEBRIS

Location		335783 E, 5708159 N (UTM31N) 335774 E, 5708156 N (UTM31N) 335777 E, 5708123 N (UTM31N)	Zone	9-11
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		7132 Dimensions: 3.7m x 5.3m x 0.6m 7133 Dimensions: 8.2m x 2.7m x 0.6m 7138 Dimensions: 21.0m x 7.3m x 0.4m Three separate features located within the same area. 7132 is a collection of irregular dark reflectors with large shadows. 7133 is an elongate, rectangular dark reflector with shadow and some possible visible structure. 7138 comprises two parallel curvilinear dark reflectors with small shadows. None of the features have been associated with a magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located within the dredged channel. A series of adjacent, irregular features, within a dredged area but different in appearance to surrounding instances of seafloor disturbance. Possible partially buried pieces of debris, or the remains of a degraded structure. The lack of a magnetic anomaly indicates any debris is likely to be non-ferrous in nature.		



7132, 7133 & 7138: Sidescan sonar mosaic

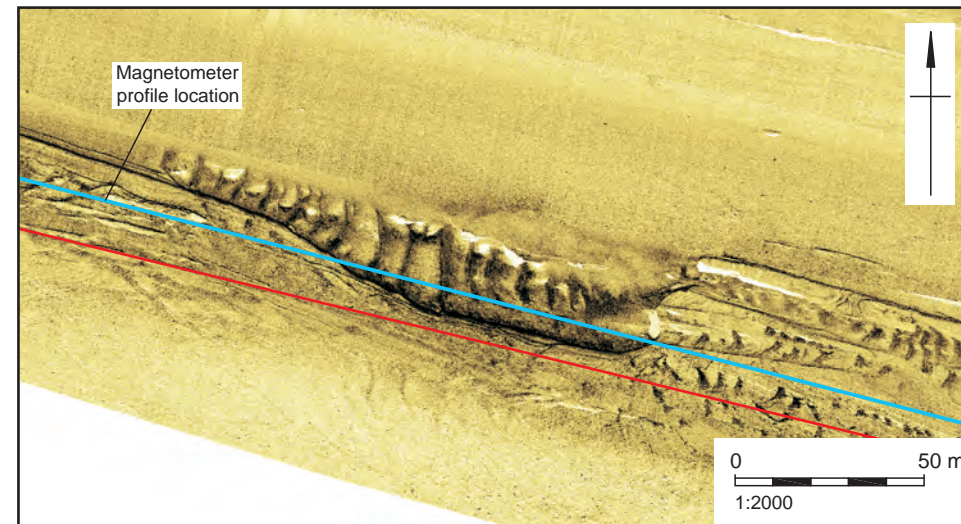


7132, 7133 & 7138: Sidescan sonar waterfall

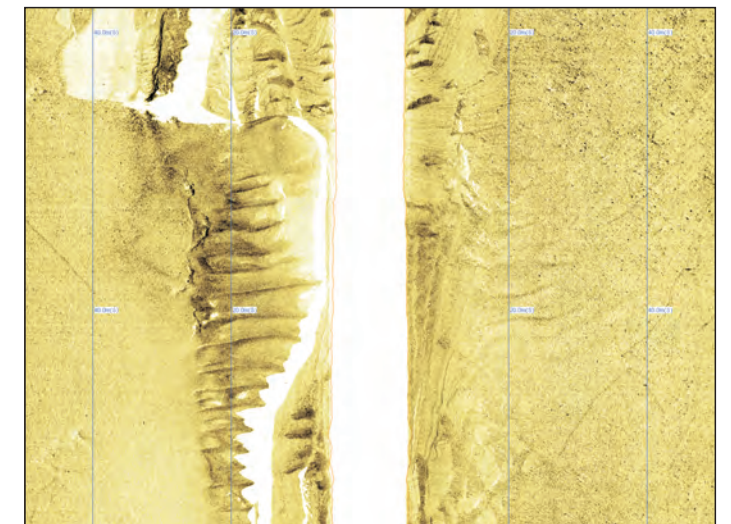
Study Areas

SHEET 8: WA ID 7209 DEBRIS

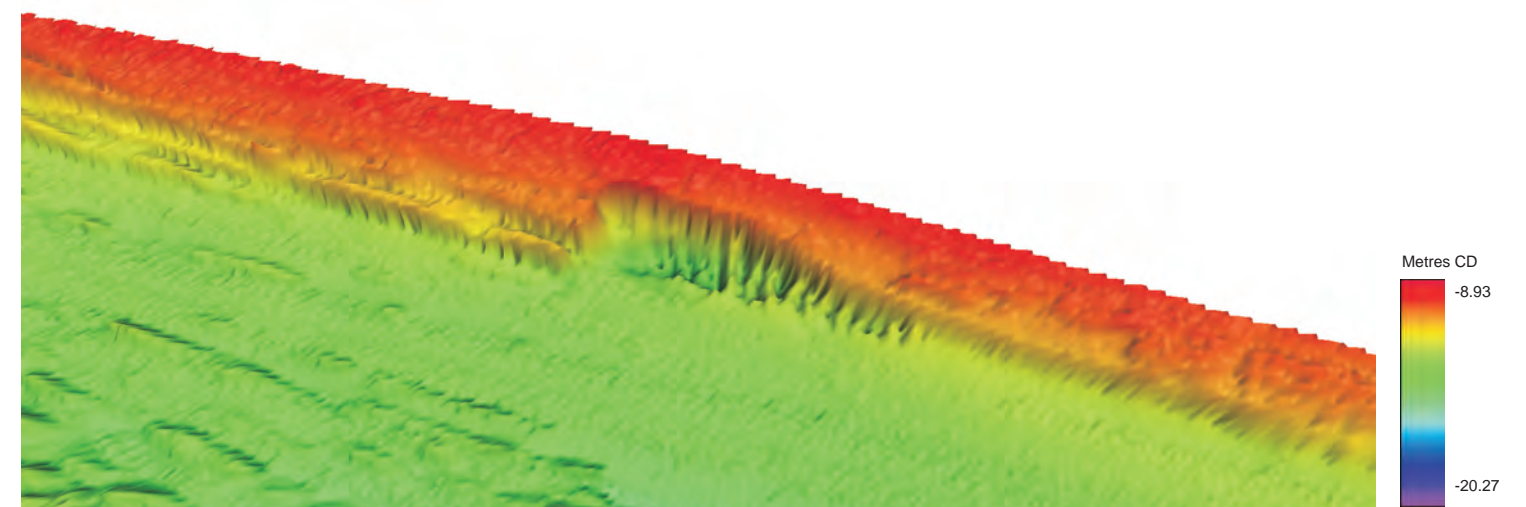
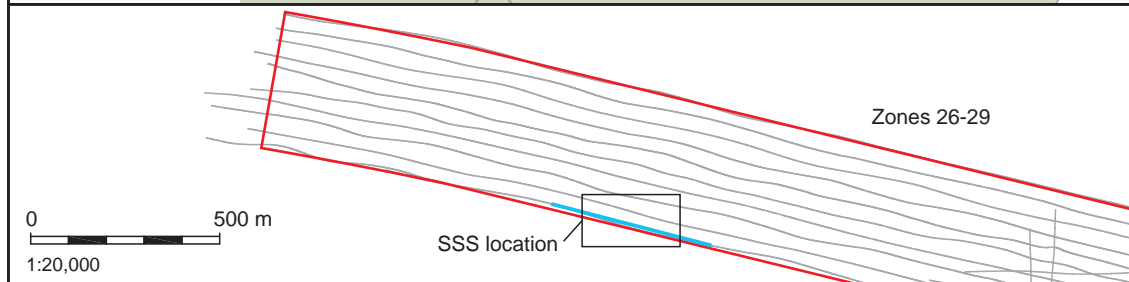
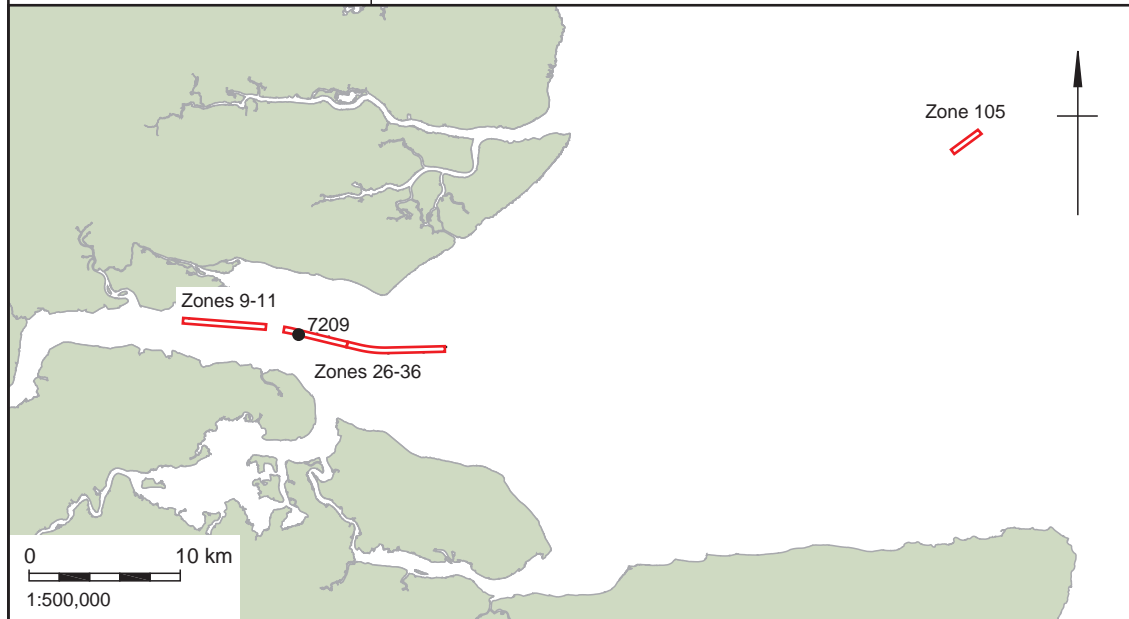
Location		340662 E, 5707493 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 58.8m x 6.3m x 0.0m. An area of irregular curvilinear dark reflectors, located at the southern edge of the dredged channel and associated with a magnetic anomaly. The most prominent feature, however, is a large partially infilled scour identified by both the sidescan sonar and multibeam bathymetry data. The scour measures approximately 130m x 26m x -4m, and appears to cut into the edge of the dredged channel.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Although there appears to be an area of debris on the seabed, the more prominent feature appears to be the large scour. This feature does not seem to be created by dredging, as there are no other similar features along the edge of the rest of the dredged channel, and could represent a significant piece of buried debris of which feature 7209 is a small exposed part. A 50nT associated magnetic anomaly indicates the possible presence of ferrous material in the area.		



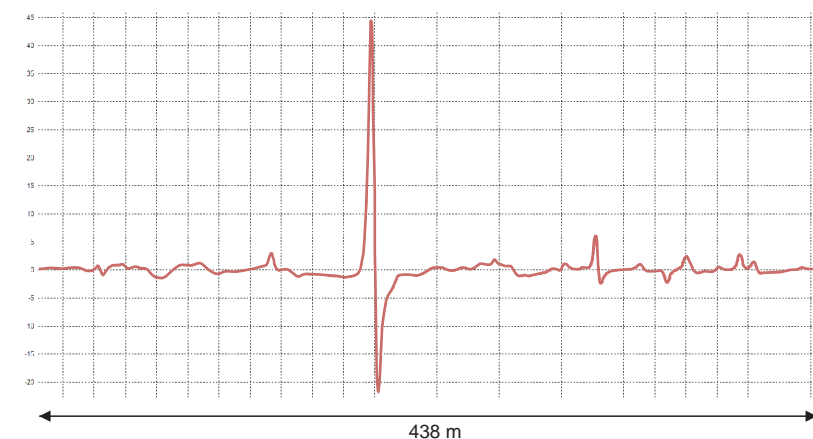
7209: Sidescan sonar mosaic



7209: Sidescan sonar waterfall



7209: Multibeam bathymetry image, x10 vertical exaggeration, facing south

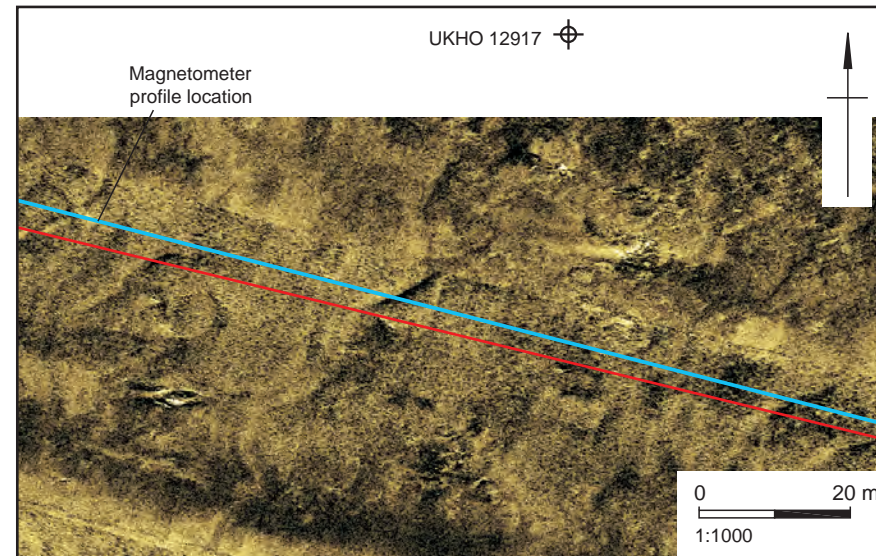


7209: Magnetometer profile

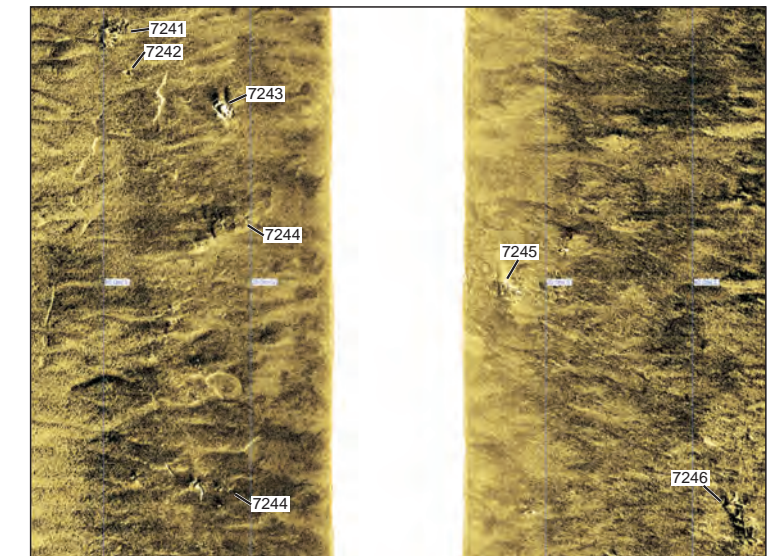
- Study Areas
- Track plot
- Magnetometer profile location

SHEET 9: WA ID 7245 "IRON BAR WRECK" UKHO 12917

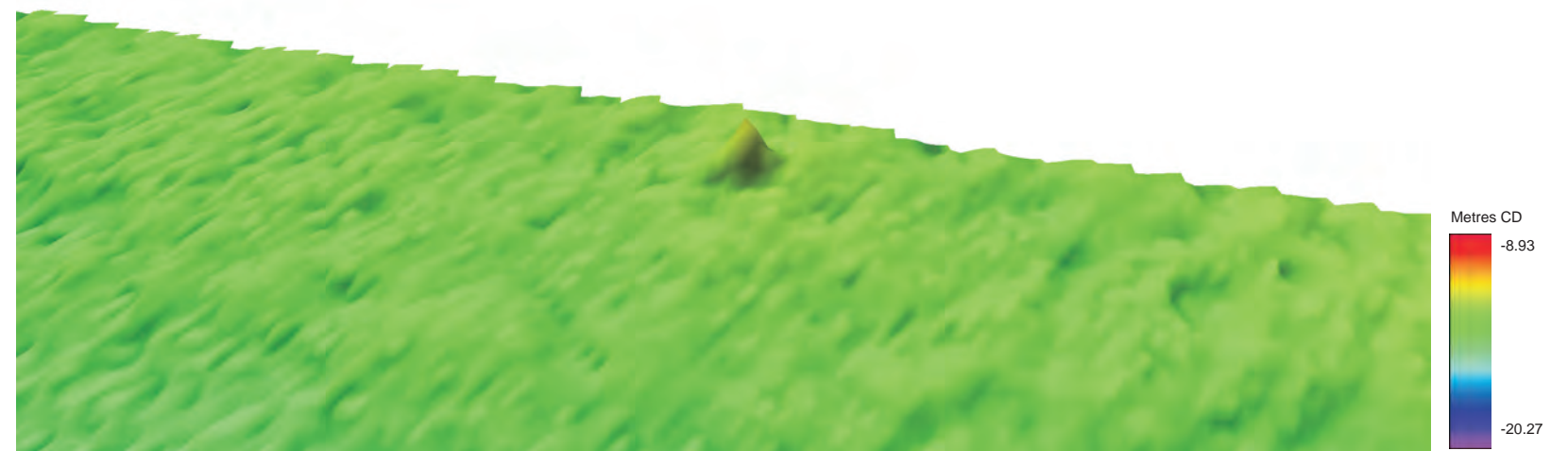
Location		341910 E, 5707549 N (UTM31N)	Zone	26-36
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 17.0m x 10.6m x 1.0m. Small mound identified on the multibeam bathymetry data, identified on the sidescan sonar as a small pile of possible debris. Associated with a 13nT magnetic anomaly. Although given as the main site, a number of other significant pieces of possible debris lie scattered within the vicinity, especially 7241, 7243, 7246 and 7247. No structure remains that is identifiable as a vessel, though the features are close to the recorded location of the unnamed "Iron Bar Wreck". The main mound is located on the northern edge of the dredged channel, just outside of the current study area, though some of the associated debris lies within the study area.		
Build	Type	Wooden ship		
	Construction	No definitive details, but reported to have been an old wooden vessel carrying a cargo of iron bars.		
	Dimensions	Unknown		
	Shipyards	Unknown		
Loss	Cause	Unknown		
Extent of Survival		Recorded by the UKHO as a Foul Ground, this is the location of a wreck site first identified in 1978 and salvaged in the same year. It is recorded that the salvage officer in charge of removing the wreck was not confident everything was cleared, and the current dataset seems to suggest scattered debris still exists in this location approximately centred on the previously described mound. The presence of a magnetic anomaly at the site indicates the presence of some ferrous debris, possibly the remains of the iron bars said to have been the cargo of the vessel.		



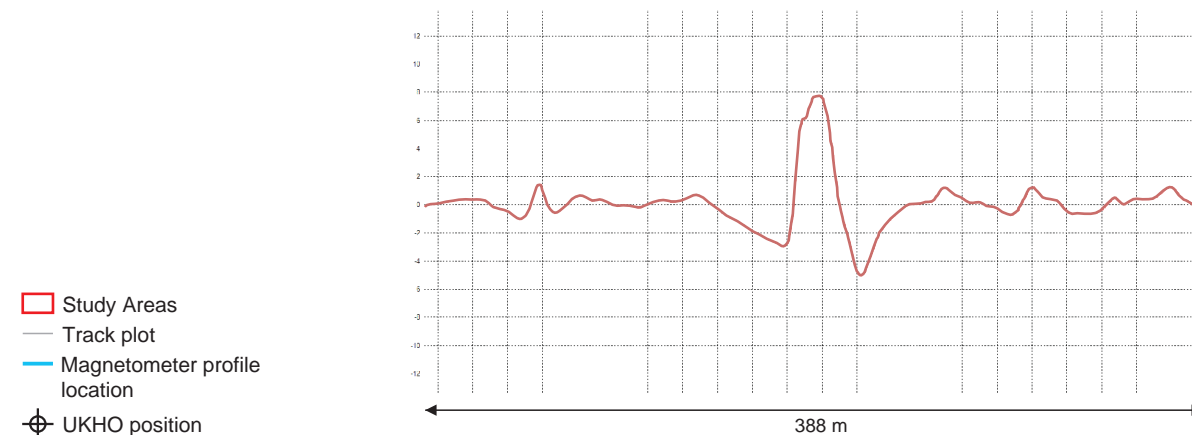
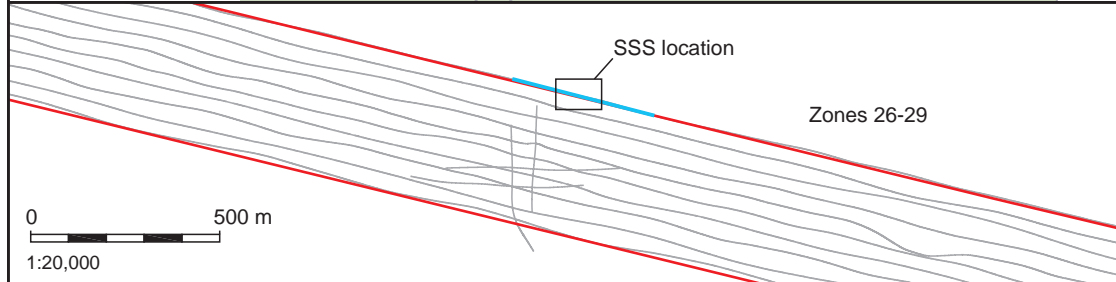
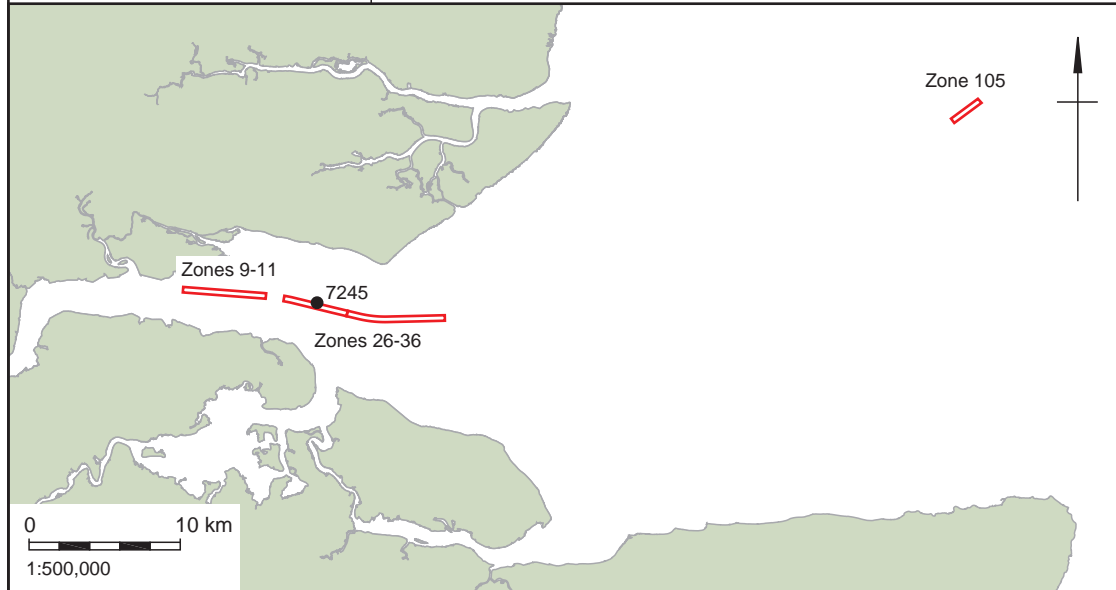
7245: Sidescan sonar mosaic



7245: Sidescan sonar waterfall



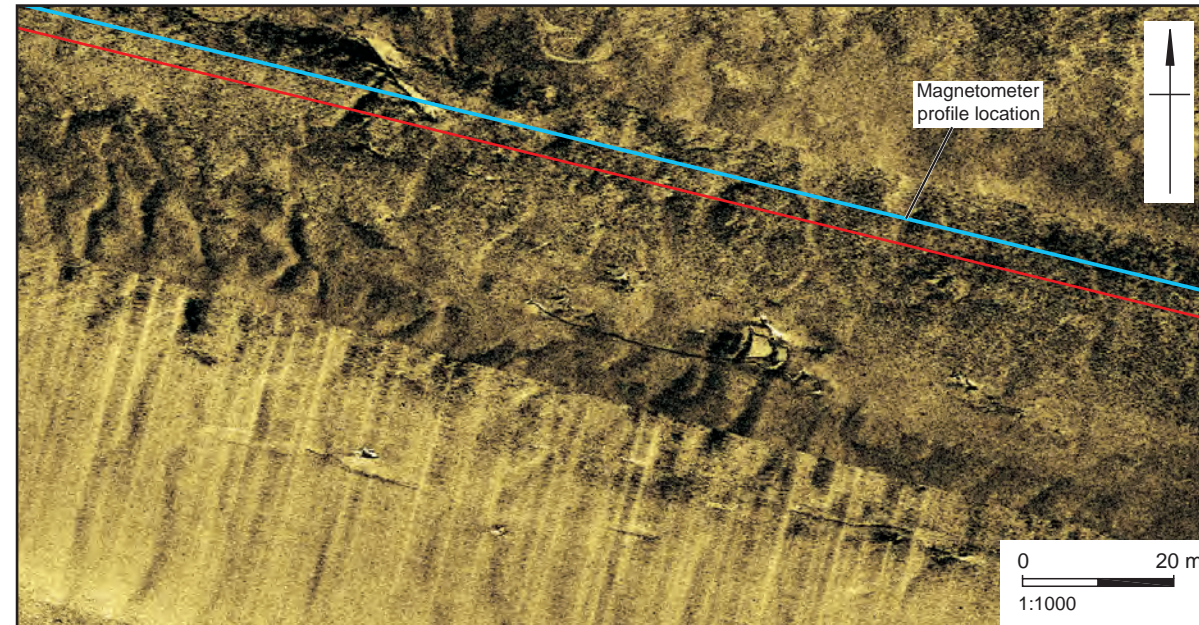
7245: Multibeam bathymetry image, x10 vertical exaggeration, facing north



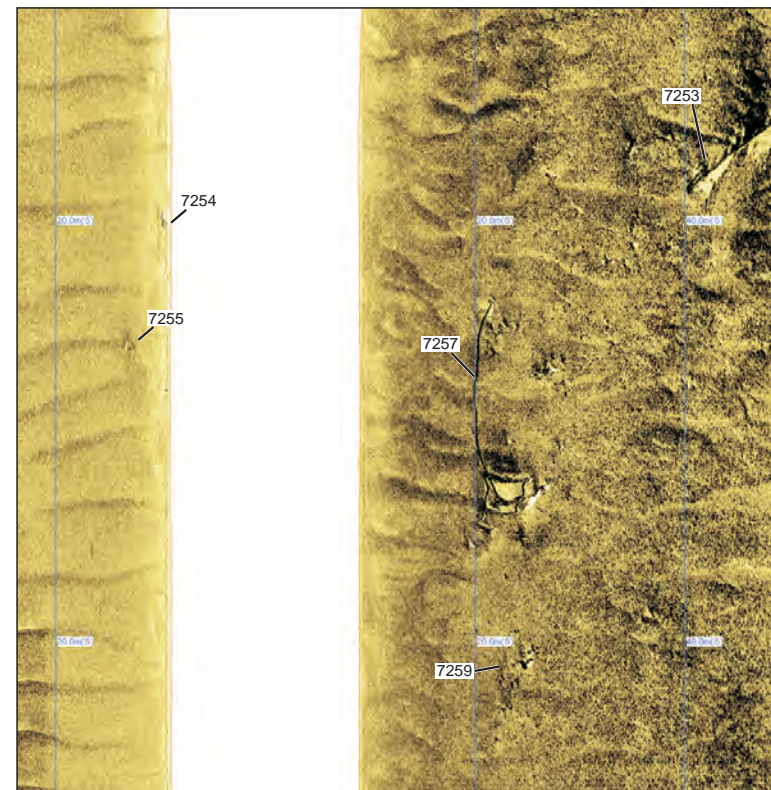
7245: Magnetometer profile

SHEET 10: WA ID 7257 DEBRIS

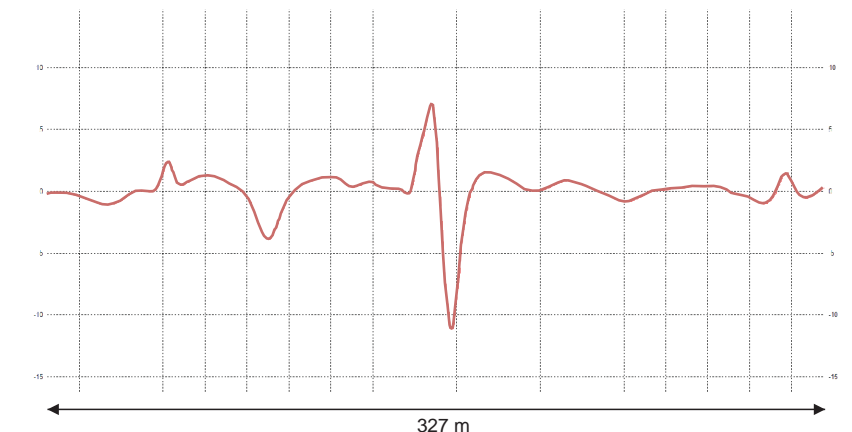
Location		342223 E, 5707441 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 41.0m x 10.3m x 0.0m. Area of well-defined curvilinear dark reflectors possibly associated with a number of other nearby anomalies, mainly 7253, 7254, 7255 and 7259. 7253, a straight, linear dark reflector, appears to be associated with a 17nT magnetic anomaly (illustrated) suggesting it is at least partially ferrous in nature.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Feature 7257 is possibly mainly lengths of rope or chain, but other surrounding pieces of debris suggest it could represent a small exposed section of a larger buried structure. The lack of a large magnetic anomaly suggests any structure is likely to be mainly non-ferrous in nature. Although it has not been previously recorded as a feature or obstruction, it is situated between the locations of the known "Iron Bar Wreck" (WA ID 7245, 330m to the WNW) and the wreck of the London (King) (WA ID 7296, 460m to the ESE) and could possibly be debris from either one of these sites, or be another site in itself.		



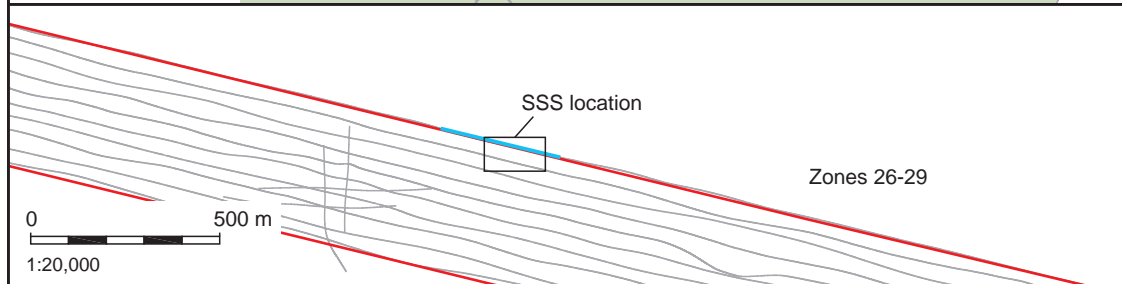
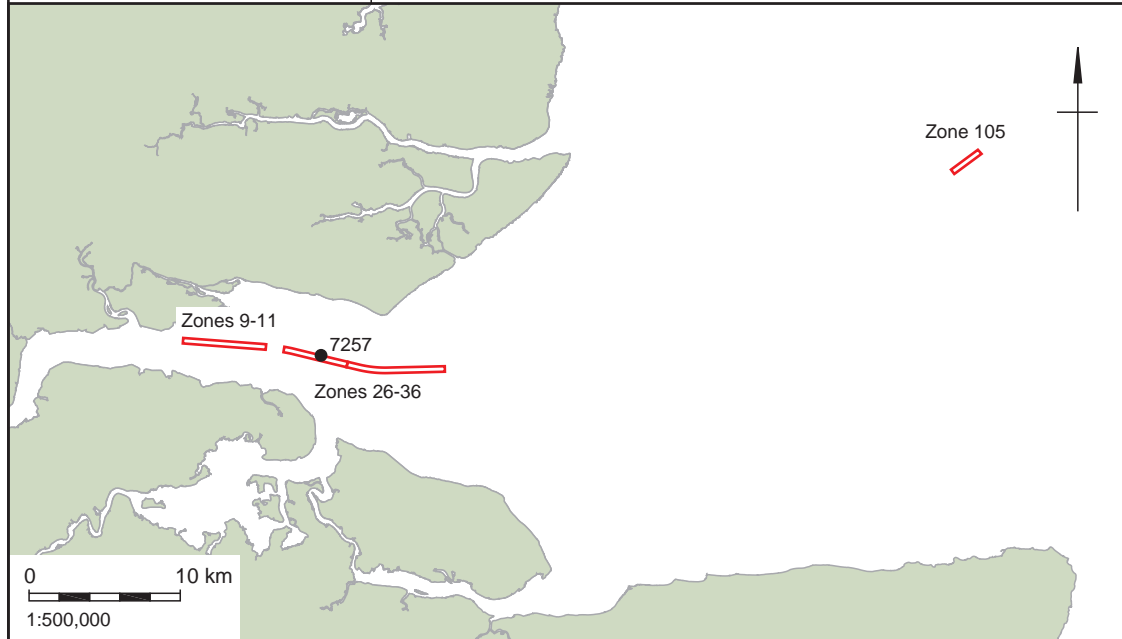
7257: Sidescan sonar mosaic



7257: Sidescan sonar waterfall

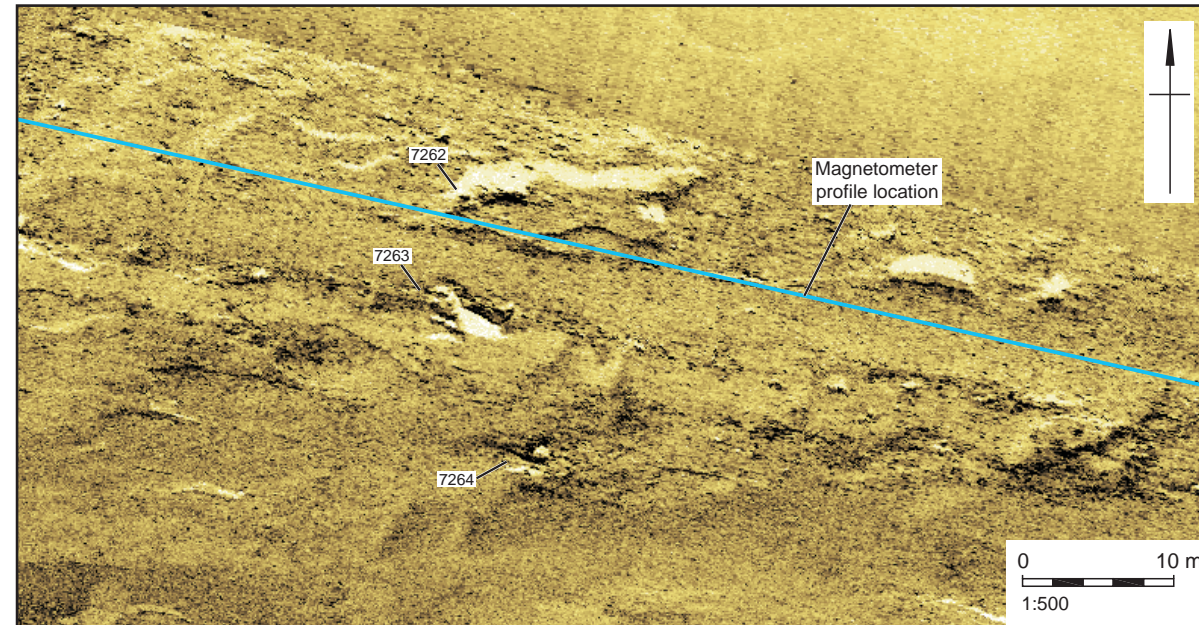


7257: Magnetometer profile

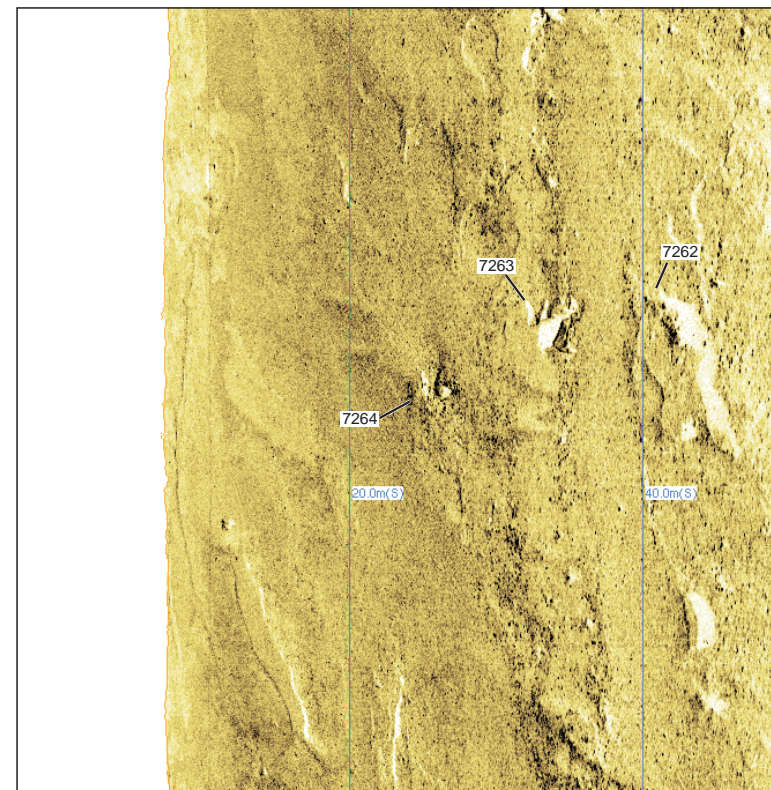


SHEET 11: WA ID 7262, 7263 & 7264 DEBRIS

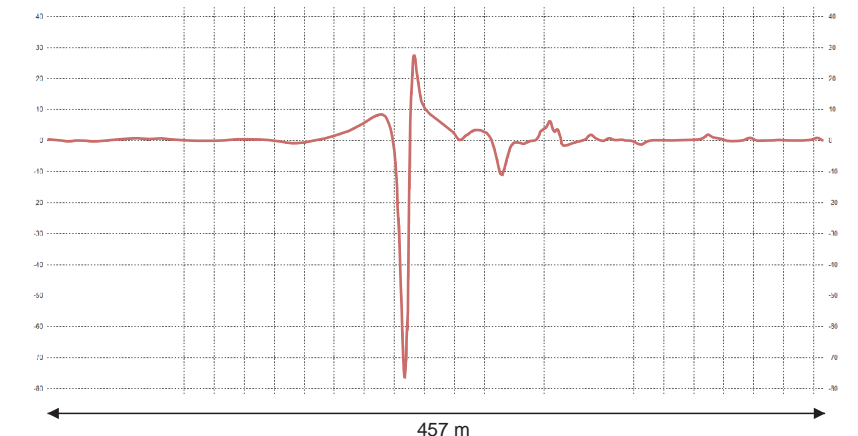
Location		342359 E, 5707314 N (UTM31N) 342538 E, 5707305 N (UTM31N) 342364 E, 5707297 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		7262 Dimensions: 5.0m x 0.7m x 0.3m 7263 Dimensions: 4.3m x 5.8m x 0.0m 7264 Dimensions: 0.7m x 0.4m x 0.2m Three separate features within the same area. 7262 is a poorly defined, irregular dark reflector with a shadow. 7263 is an area of irregular dark reflectors centered around a larger curvilinear dark reflector. 7264 is an irregular dark reflector with shadow. The features have been associated with a 93nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyards			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located towards the centre of the dredged channel. 7263 is most likely to be an area of debris, with 7262 and 7264 being associated pieces of debris. The identification of a large magnetic anomaly indicates any debris is possibly ferrous in origin, with the possibility of more buried beneath the seabed sediment.		



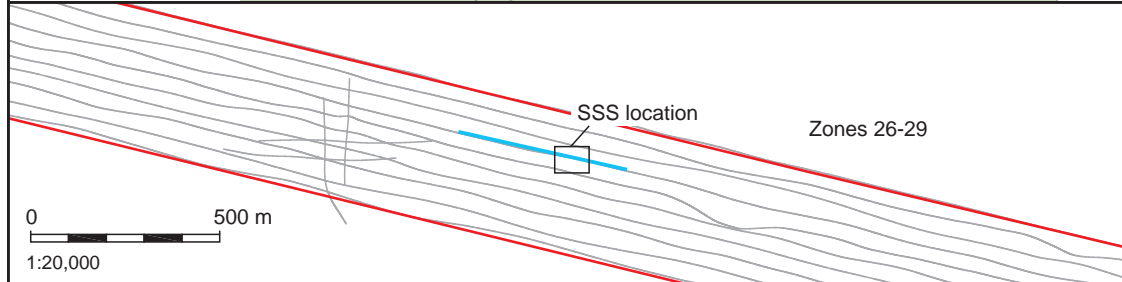
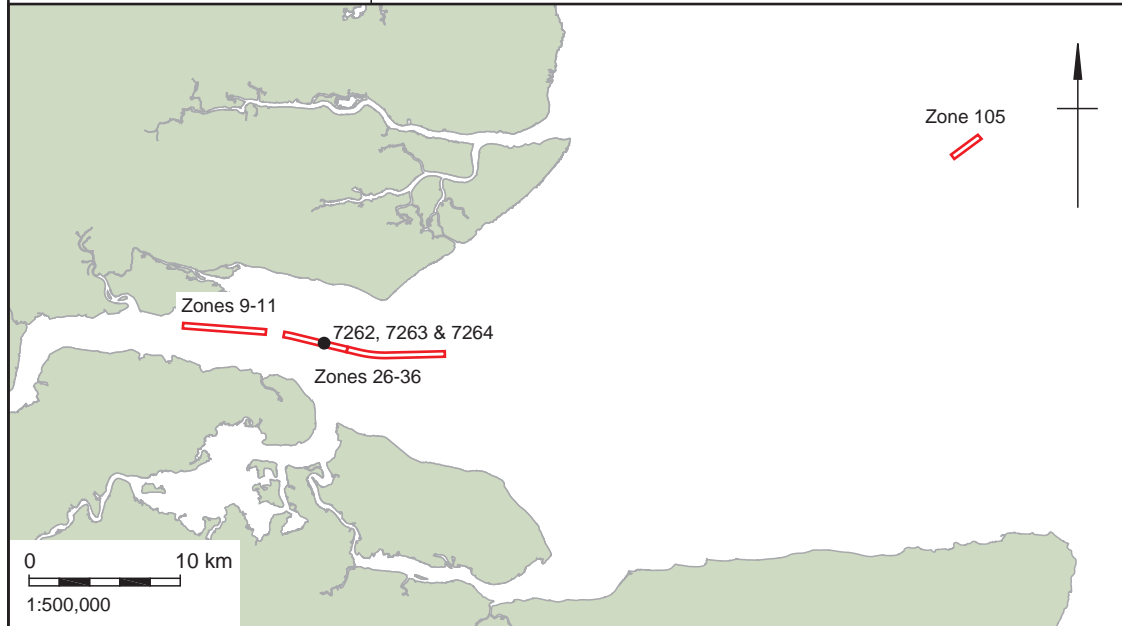
7262, 7263 & 7264: Sidescan sonar mosaic



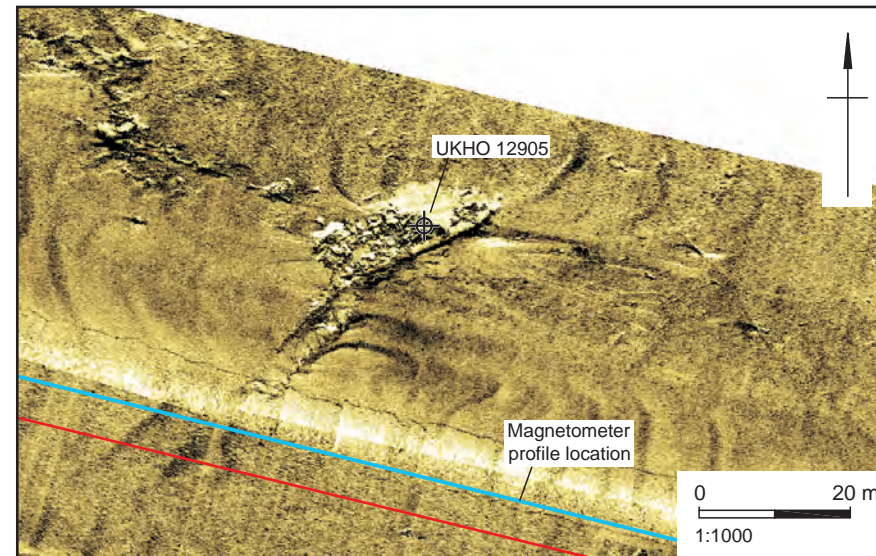
7262, 7263 & 7264: Sidescan sonar waterfall



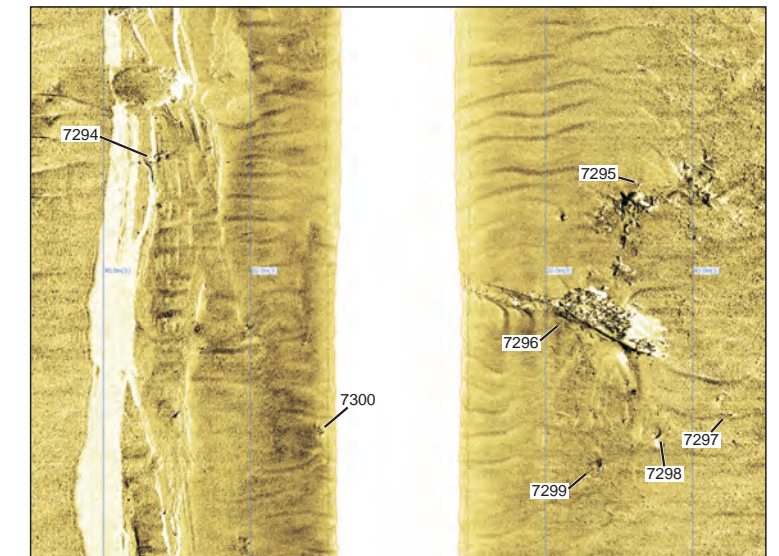
7262, 7263 & 7264: Magnetometer profile



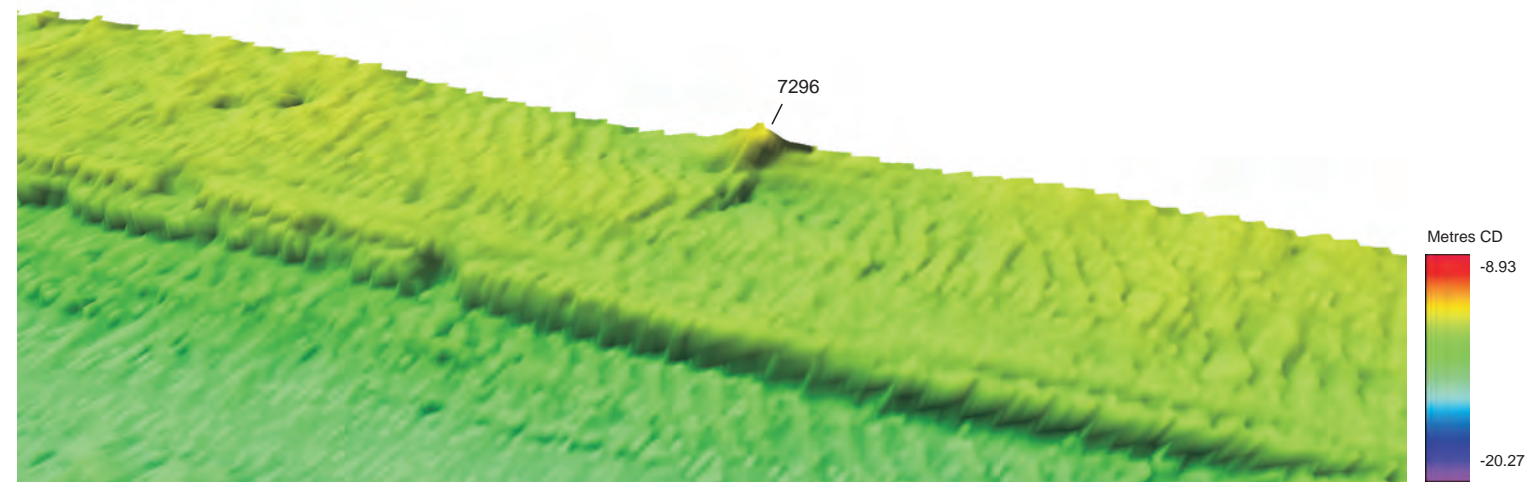
Location		342683 E, 5707378 N (UTM31N)	Zone	26-36
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 21.8m x 8.4m x 1.1m. Prominent collection of dark reflectors which outline the main part of the wreck, which appears upright though fairly broken up and partially buried. A second, smaller structure appears to be partially buried located immediately adjacent to the southwest of the main wreck. A shallow scour extends eastwards from the main structure. Other areas of debris, most notably WA ID 7295, area located within the vicinity. The small magnetic anomaly indicates the presence of a small amount of ferrous debris.		
Build	Type	2nd Rate Ship of the Line		
	Construction	Wooden hull		
	Dimensions	37.6m x 12.5m x 5.1m		
	Shipyard	Chatham, 1654		
Loss	Cause	Explosion caused by accidental ignition of gunpowder, 7th March 1665. Over 300 hands lost.		
Extent of Survival		Previously known as "The King", this site (UKHO 12905, NMR 908041) is now one of two parts of the HMS London designated wreck site. The site is no known actually known to contain two wrecks. The main, larger wreck is that of the HMS London, and is thought to represent part of the hold of the vessel. The site has is characterised by a rich artefact assemblage, and artefacts as diverse as a bronze cannon, structural timbers, a glass bottle and human remains. The potential remains for numerous other artefacts to be present at the site. The second vessel, located immediately to the southwest, is thought to be a small coastal or home trade vessel and has been dated to after 1832. This structure appears mostly buried, and the potential remains for other buried artefacts to be located in the vicinity.		



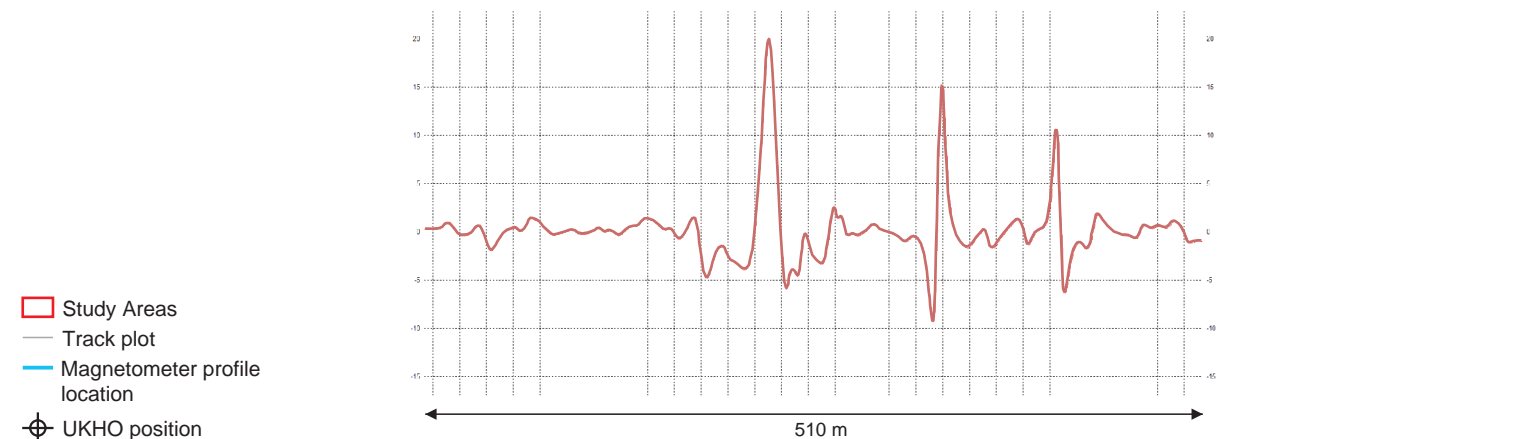
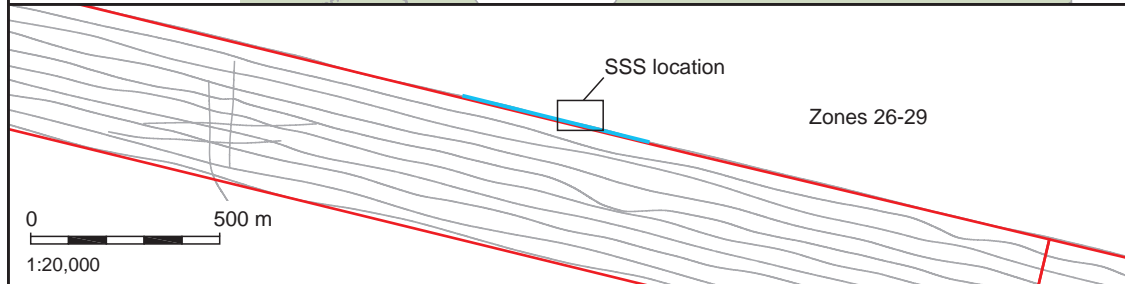
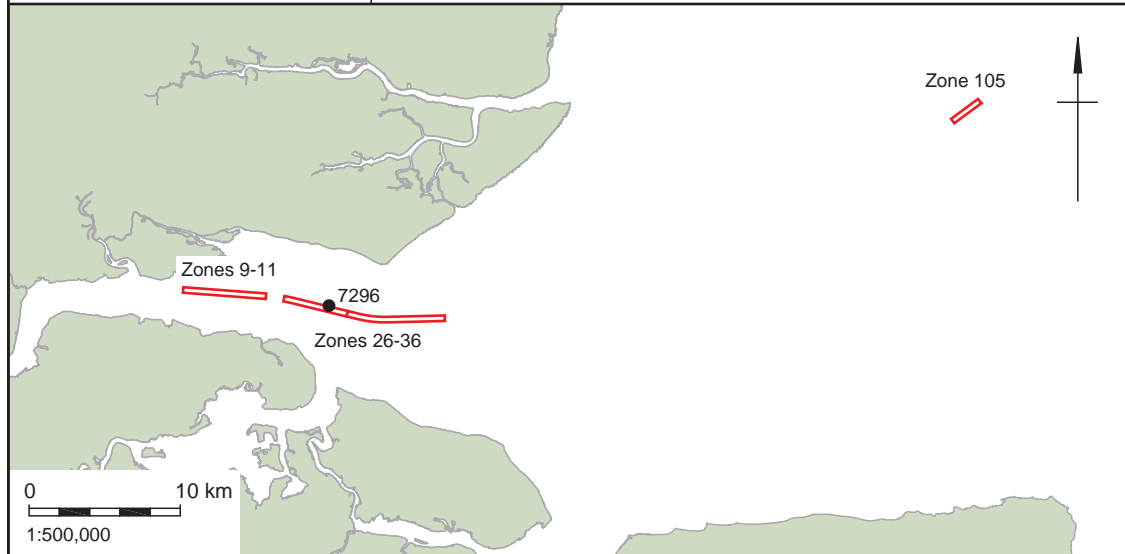
7296: Sidescan sonar mosaic



7296: Sidescan sonar waterfall



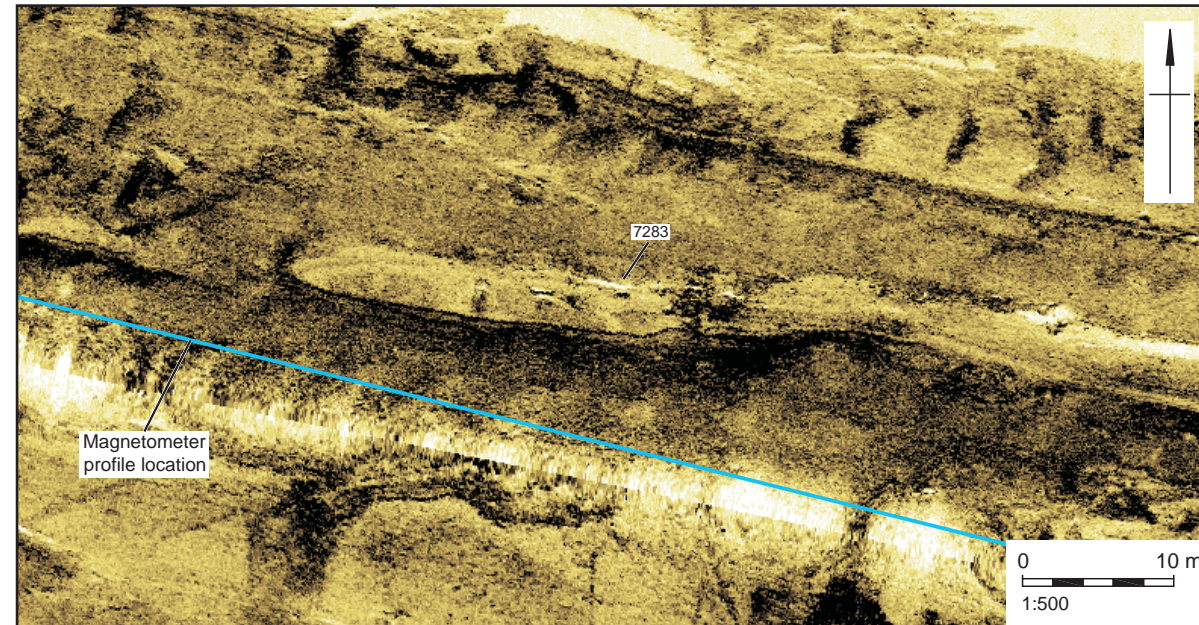
7296: Multibeam bathymetry image, x10 vertical exaggeration, facing north



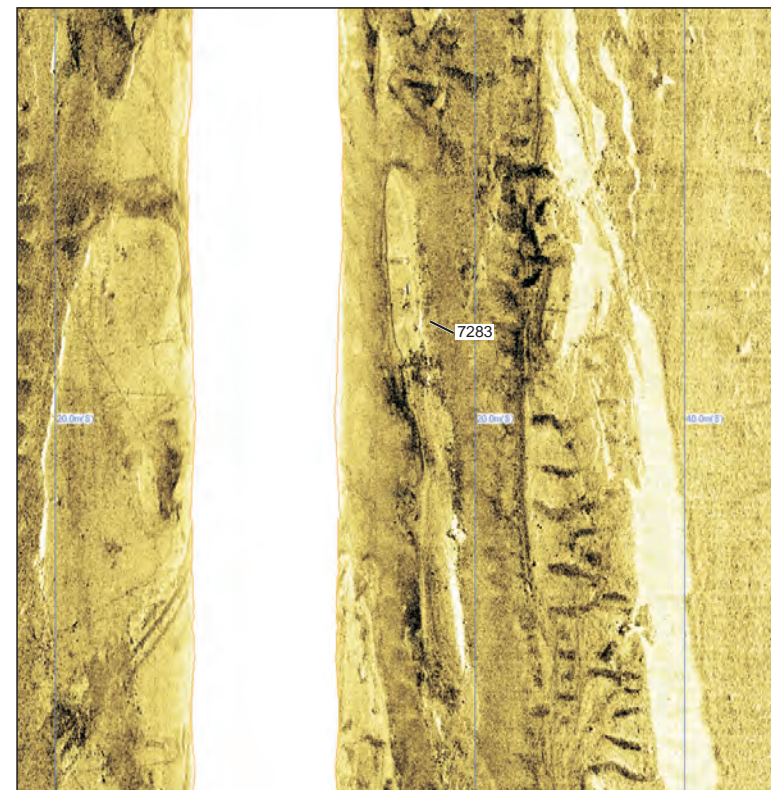
7296: Magnetometer profile

SHEET 13: WA ID 7283 DEBRIS

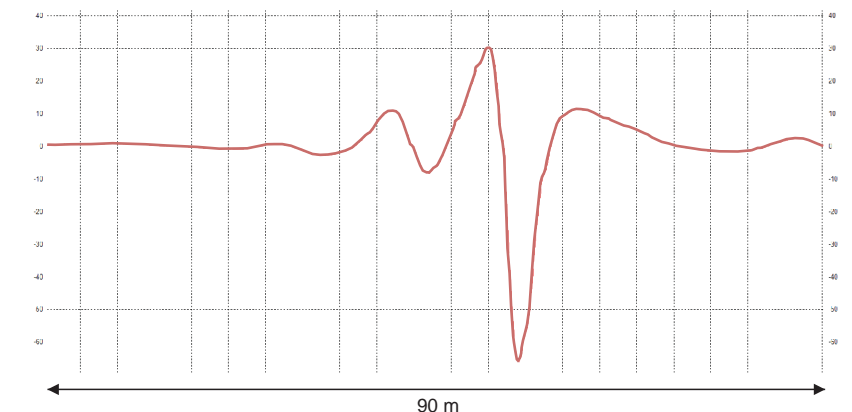
Location		342574 E, 5707233 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 1.7m x 0.1m x 0.1m Very small, linear dark reflector with a small shadow located within a large but shallow seabed depression. Numerous indistinct, straight dark reflectors also identified within the vicinity. Associated with a 91nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located towards the centre of the dredged channel. A very small feature, but associated with a large magnetic anomaly suggesting it is a piece of ferrous debris. The size of the magnetic anomaly also suggests other pieces of buried ferrous debris are present within the vicinity.		



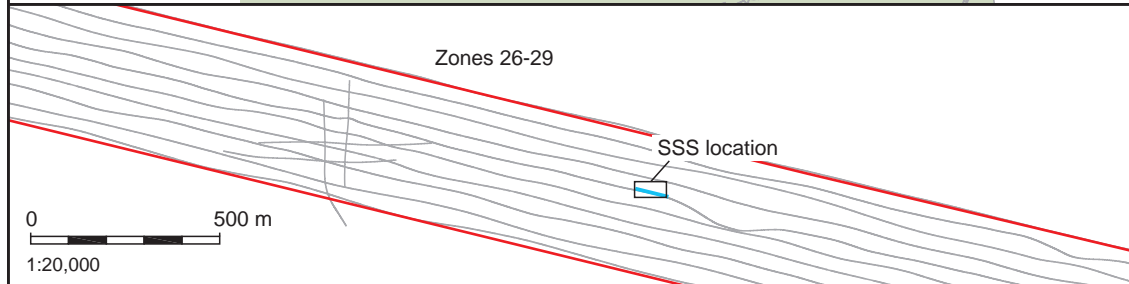
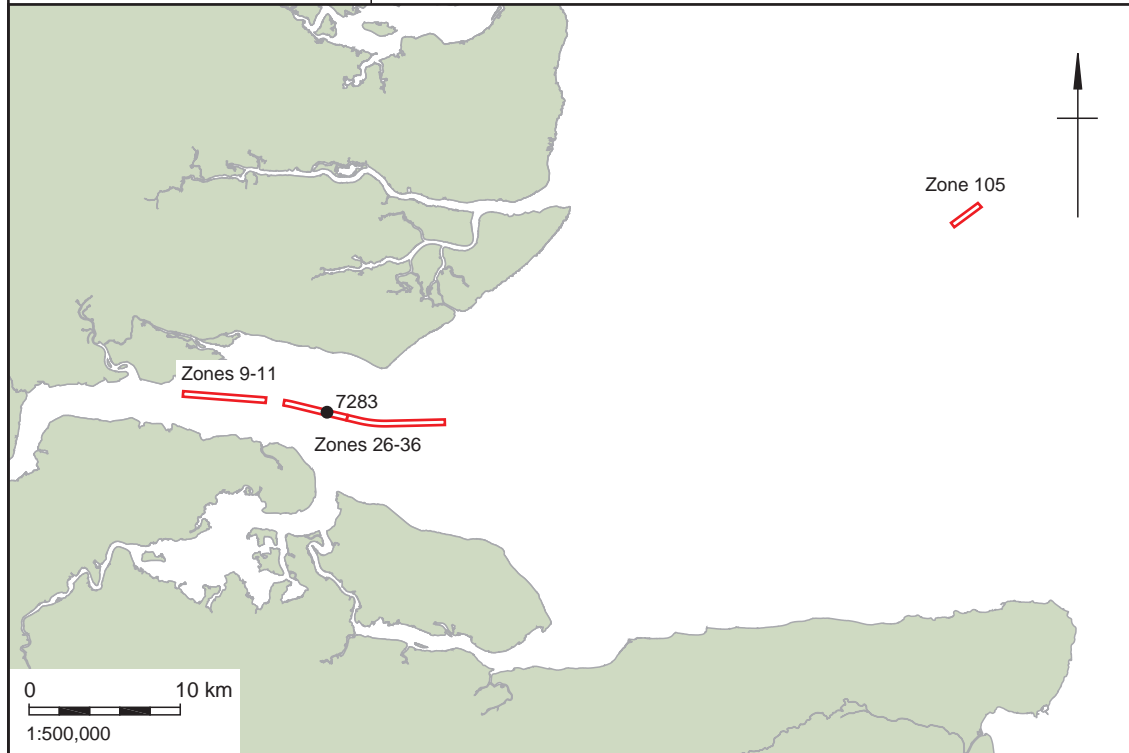
7283: Sidescan sonar mosaic



7283: Sidescan sonar waterfall



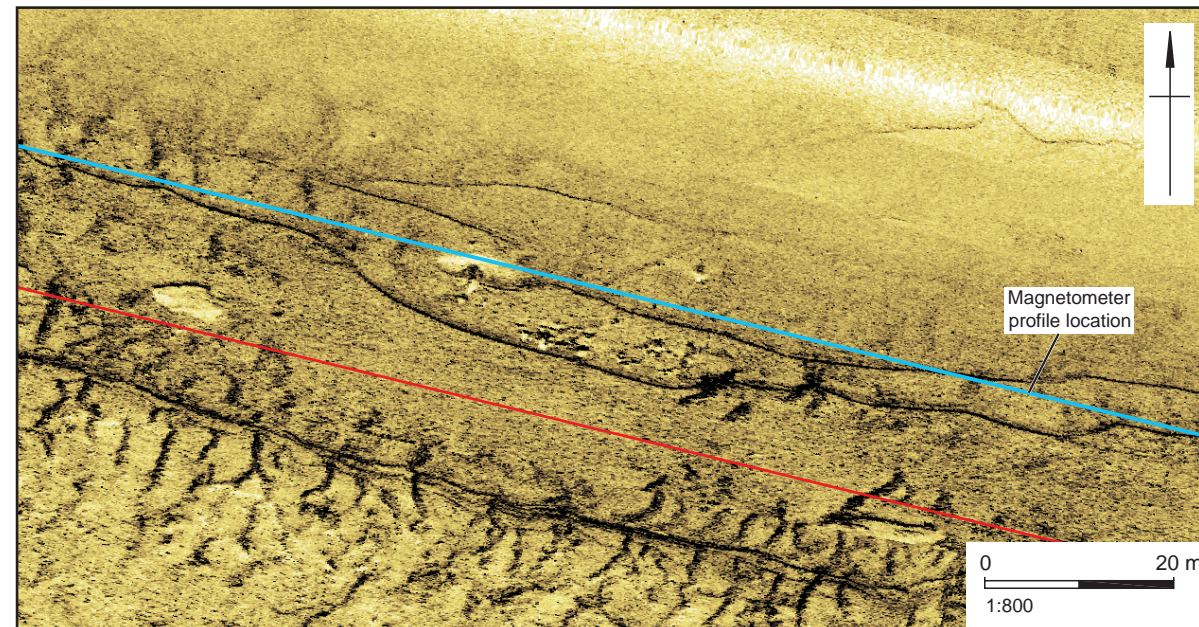
7283: Magnetometer profile



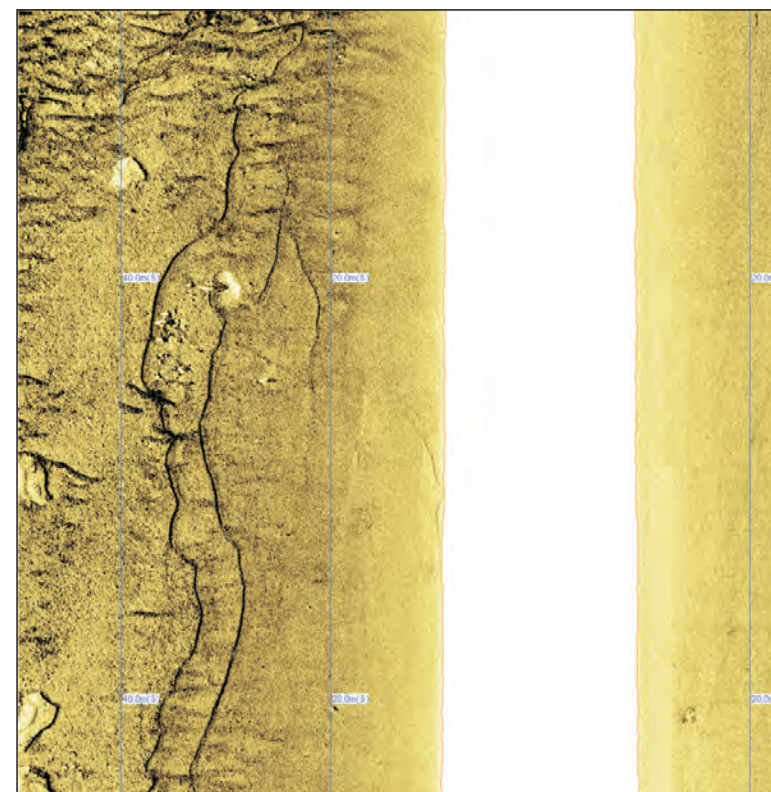
- Study Areas
- Track plot
- Magnetometer profile location

SHEET 14: WA ID 7274 DEBRIS

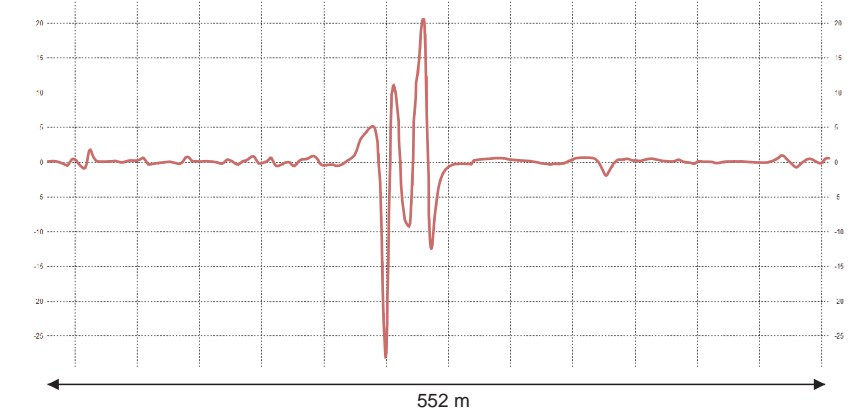
Location		342426 E, 5707044 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 30.1m x 5.4m x 0.3m Scatter of irregular dark reflectors with shadows, up to 0.3m in height. Associated with a 41nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. On the southern edge of the dredged channel. Possibly a debris field or partially buried remains of a degraded structure. The identified magnetic anomaly indicates at least some of the debris is ferrous in nature.		



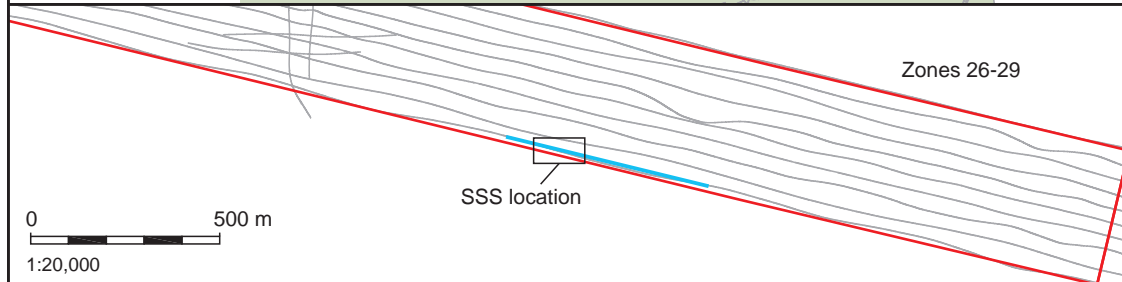
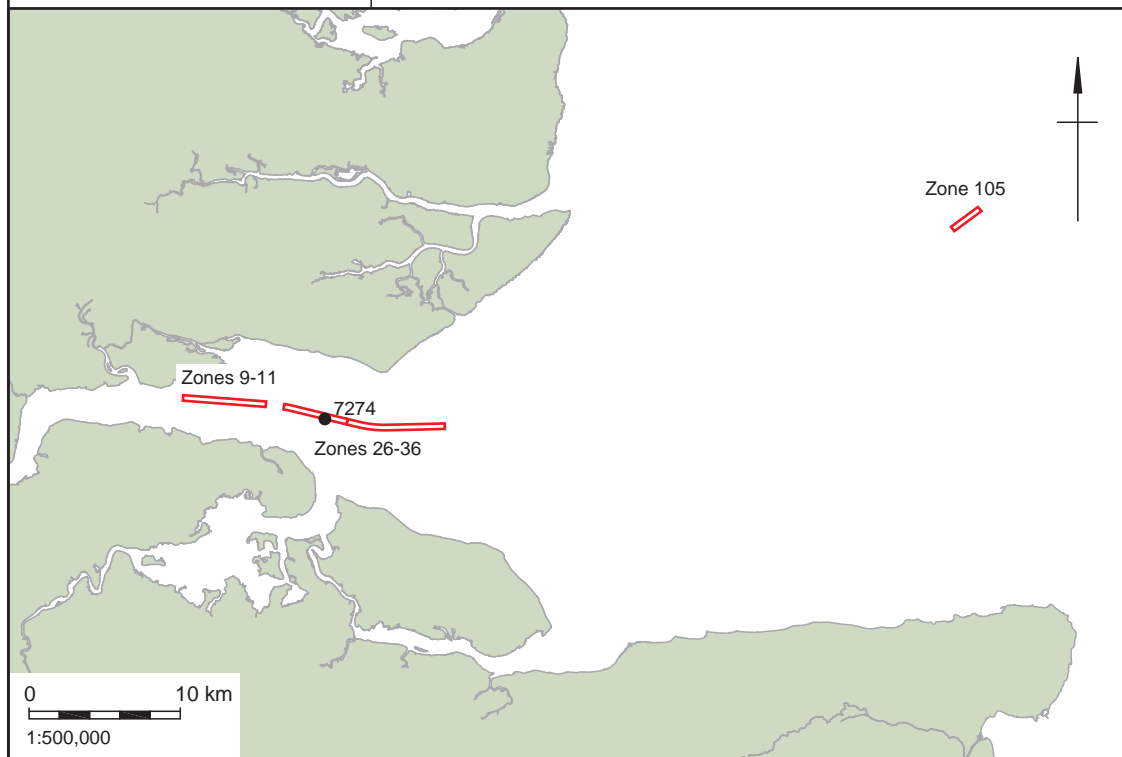
7274: Sidescan sonar mosaic



7274: Sidescan sonar waterfall

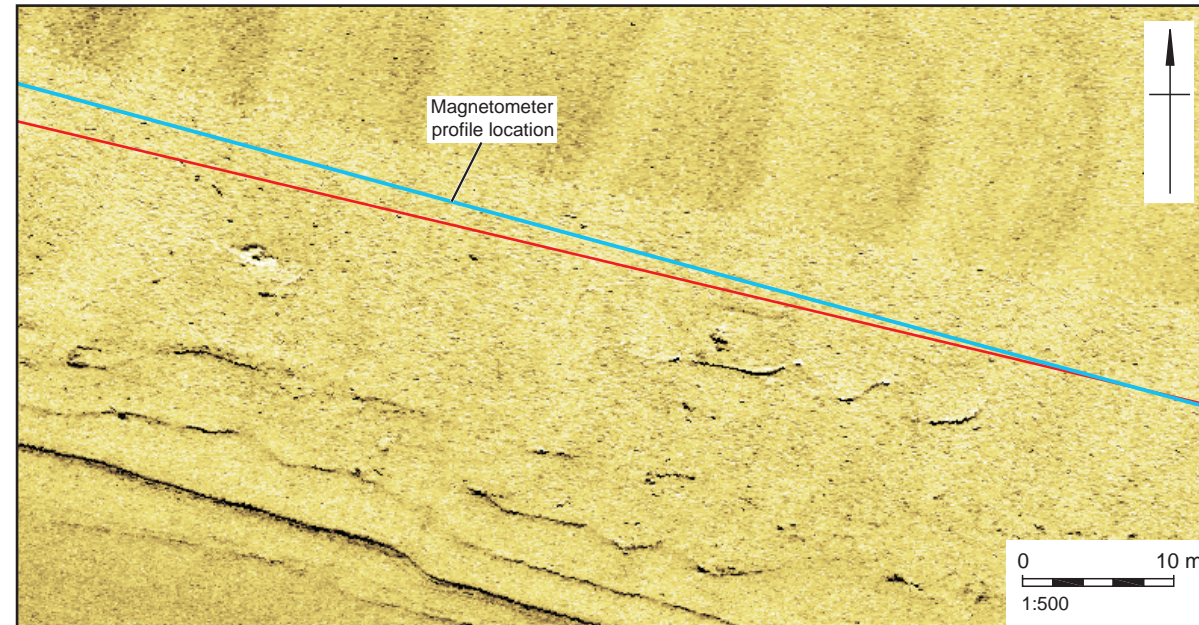


7274: Magnetometer profile

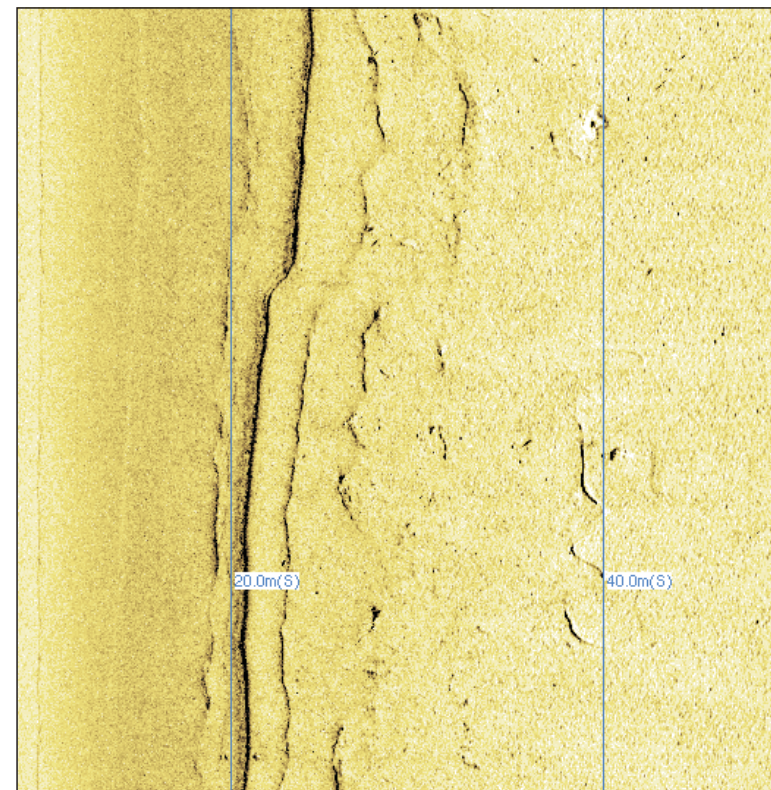


SHEET 15: WA ID 7358, 7359 & 7360 DEBRIS

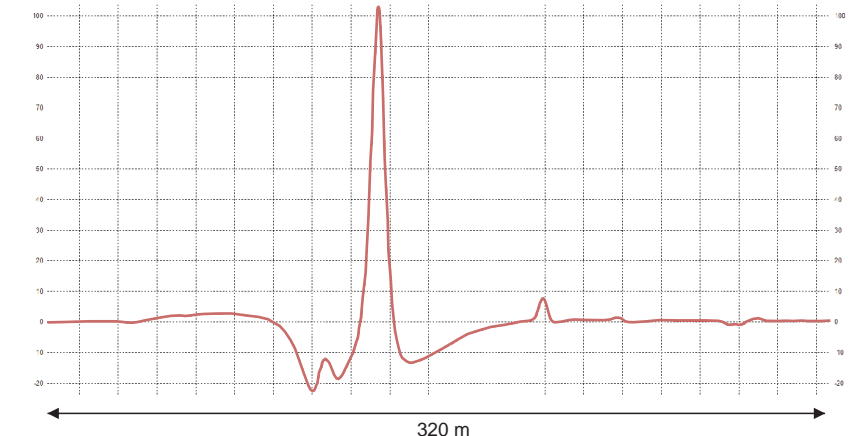
Location		344706 E, 5706861 N (UTM31N) 344736 E, 5706855 N (UTM31N) 344743 E, 5706852 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		7358 Dimensions: 0.6m x 0.2m x 0.1m 7359 Dimensions: 1.4m x 0.3m x 0.2m 7360 Dimensions: 24.1m x 0.1m x 0.1m Three separate features within the same area. 7358 is a small dark reflector with a small shadow, located within a depression or scour. 7359 is a larger dark reflector with a larger shadow. 7360 is a curvilinear dark reflector with a small shadow, probably a length of rope or chain. All are associated with a large 110nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the northern edge of the dredged channel, right on the edge of the study area. The probable length of rope or chain is the most obvious anthropogenic feature, and the other dark reflectors are possibly associated debris. However, the identification of such a large magnetic anomaly in this area suggests the presence of a significant amount of buried ferrous debris in the immediate vicinity.		



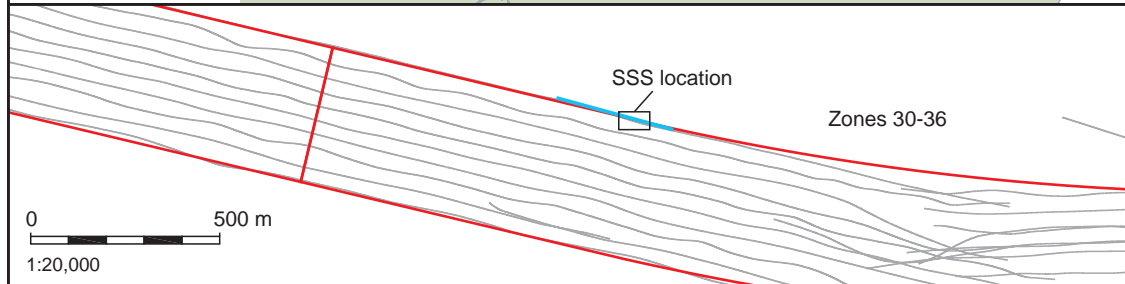
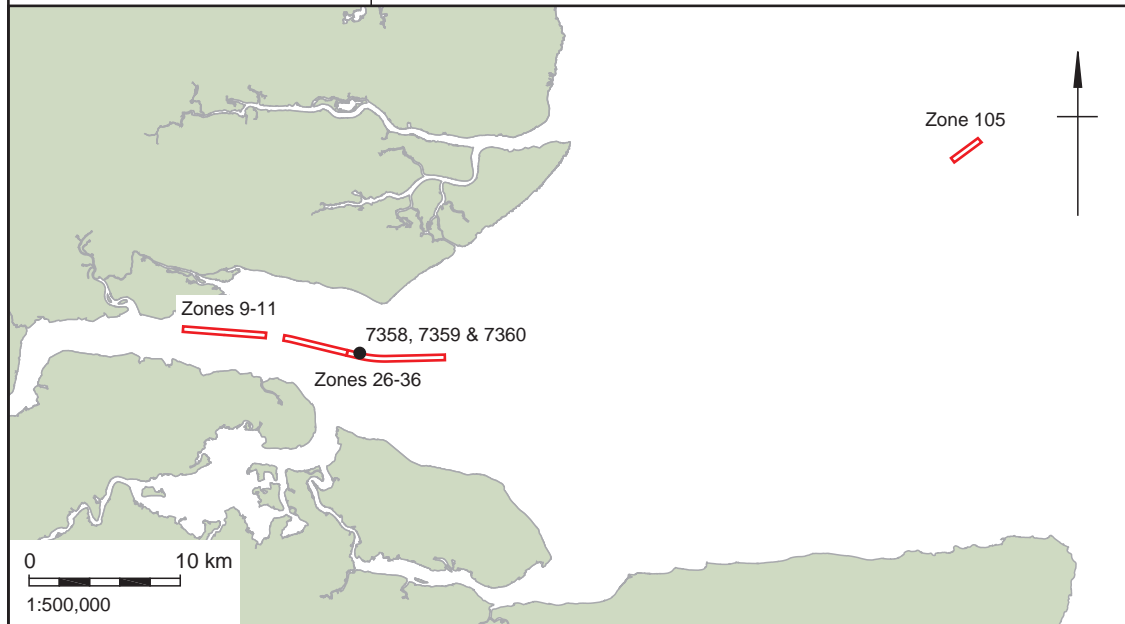
7358, 7359 & 7360: Sidescan sonar mosaic



7358, 7359 & 7360: Sidescan sonar waterfall

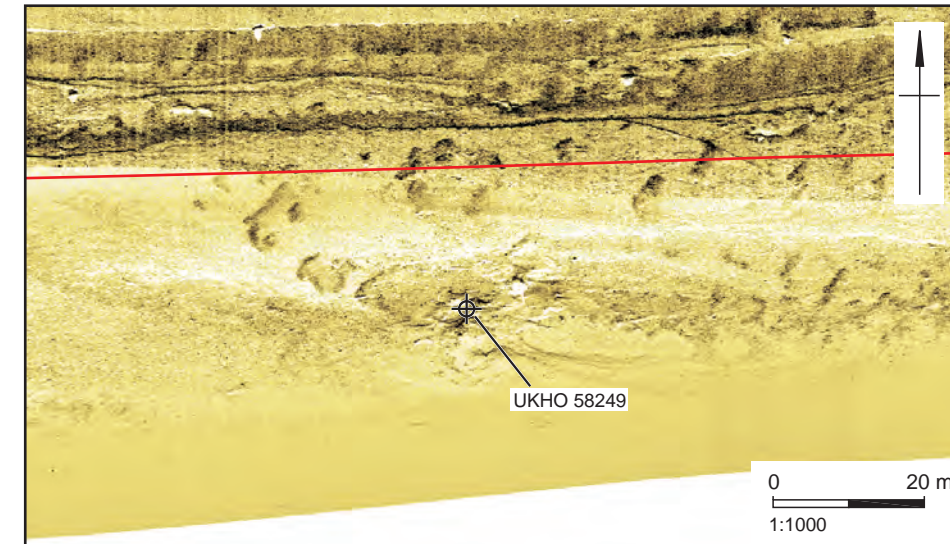


7358, 7359 & 7360: Magnetometer profile

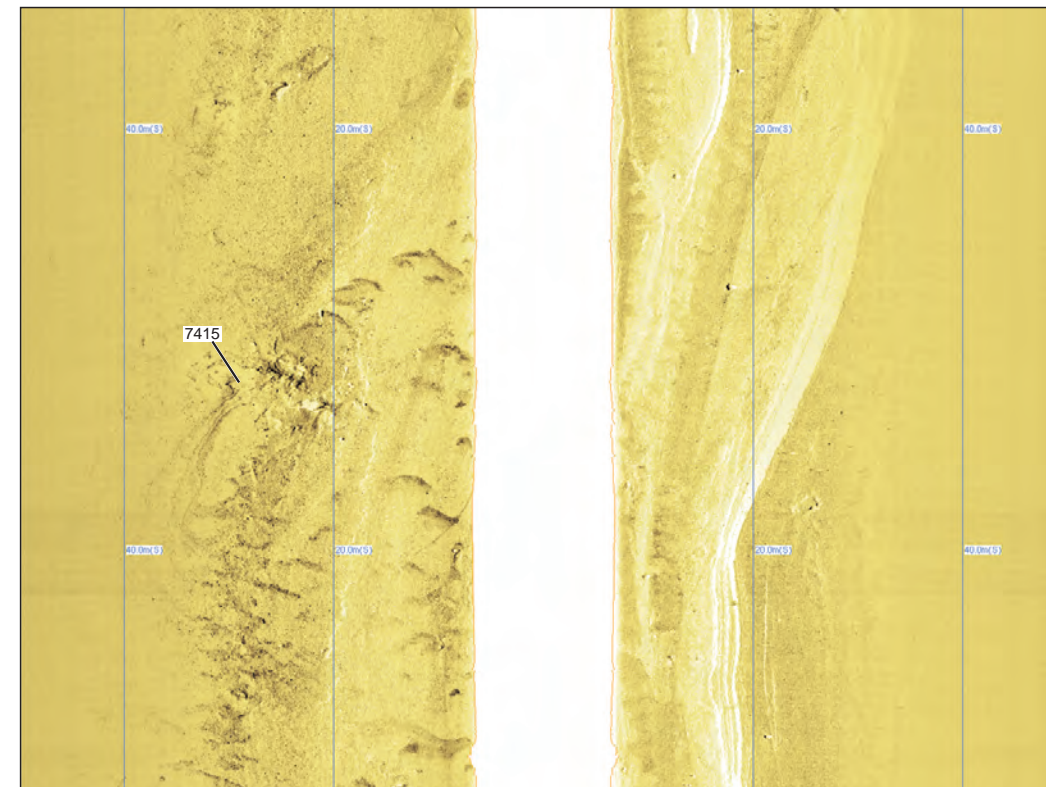


- Study Areas
- Track plot
- Magnetometer profile location

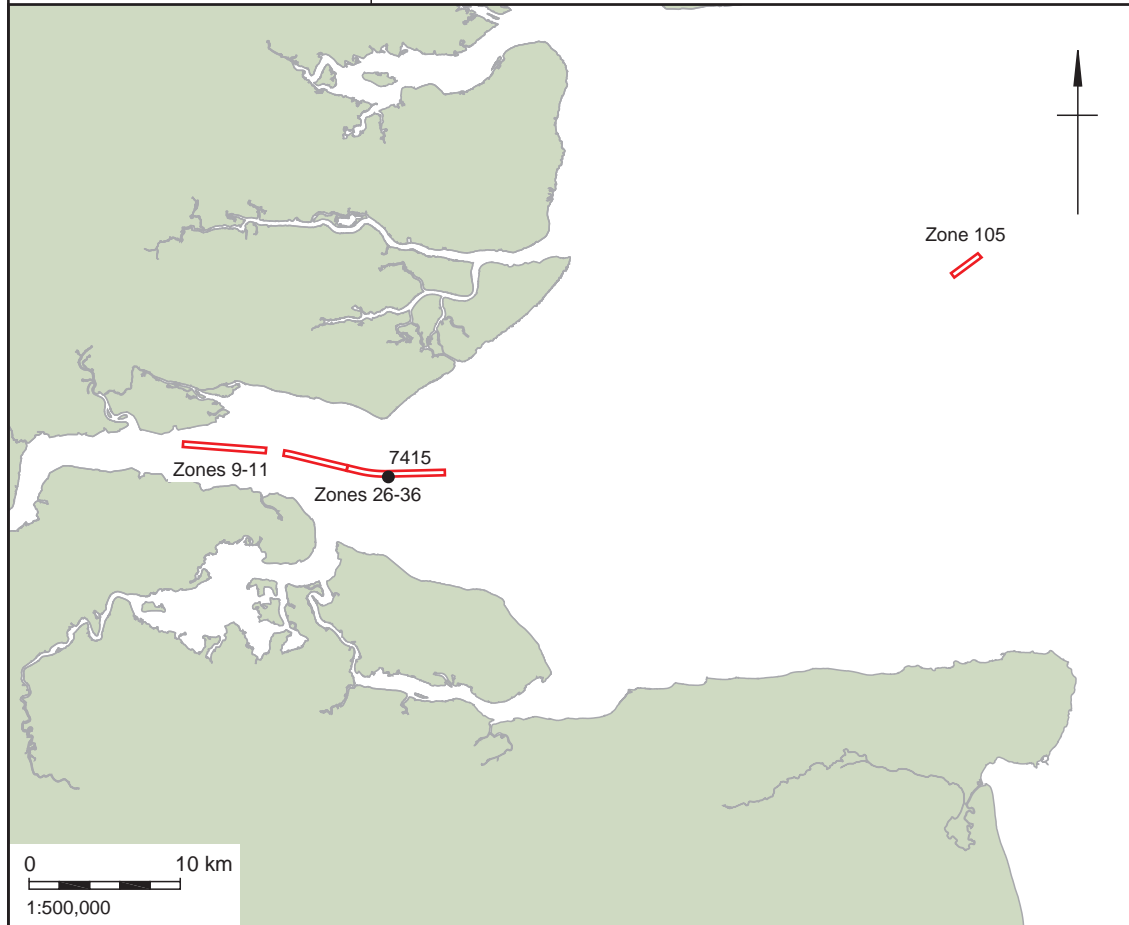
Location		346626 E, 5706282 N (UTM31N)	Zone	26-36
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 21.3m x 19.8m x 0.4m. Area of seafloor disturbance and irregular dark reflectors situated close to the recorded location of the "Pottery Wreck". One small dark reflector measures 0.4m in height, though no measurable height was recorded for the rest of the feature. No magnetic anomaly was found associated with the site. The feature is not recognisable as a vessel, and is more likely to be a scatter of partially buried debris.		
Build	Type	Possible Thames Bawley (fishing vessel).		
	Construction	Wooden (elm and oak), possibly originally clinker built and later converted to carvel construction.		
	Dimensions	Unknown		
	Shipyard	Unknown		
Loss	Cause	Unknown		
Extent of Survival		First discovered by the PLA in 1999 the site has been dived on more than one occasion and numerous objects have been recovered, including both structural timbers and personal artefacts. No objects have been recovered that indicate the identity of the vessel, and it has been referred to as the "Pottery Wreck". Recorded by the UKHO as an obstruction, the current geophysical investigation indicates some debris and decayed remains of the vessel still exist at the site, though it seems unlikely that any coherent structure survives.		



7415: Sidescan sonar mosaic

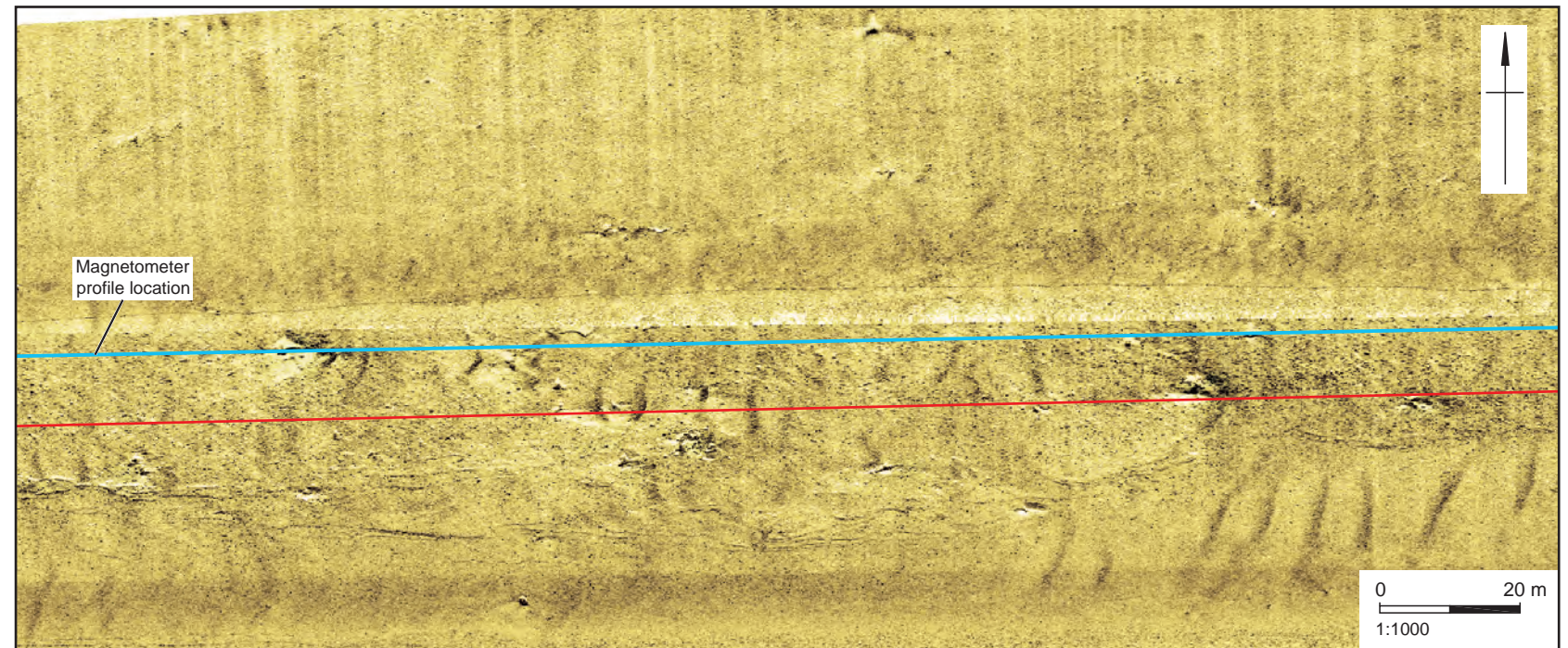


7415: Sidescan sonar waterfall

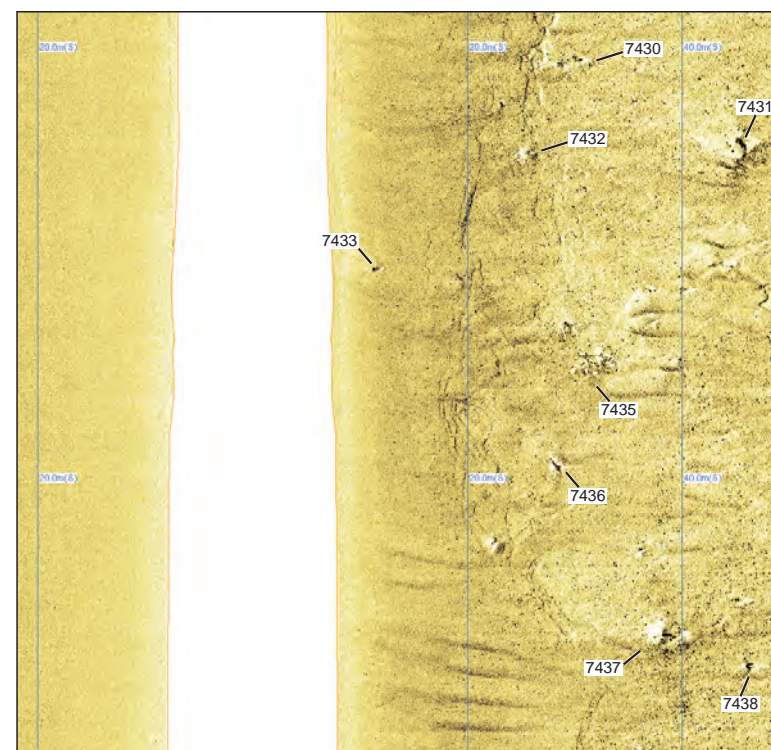
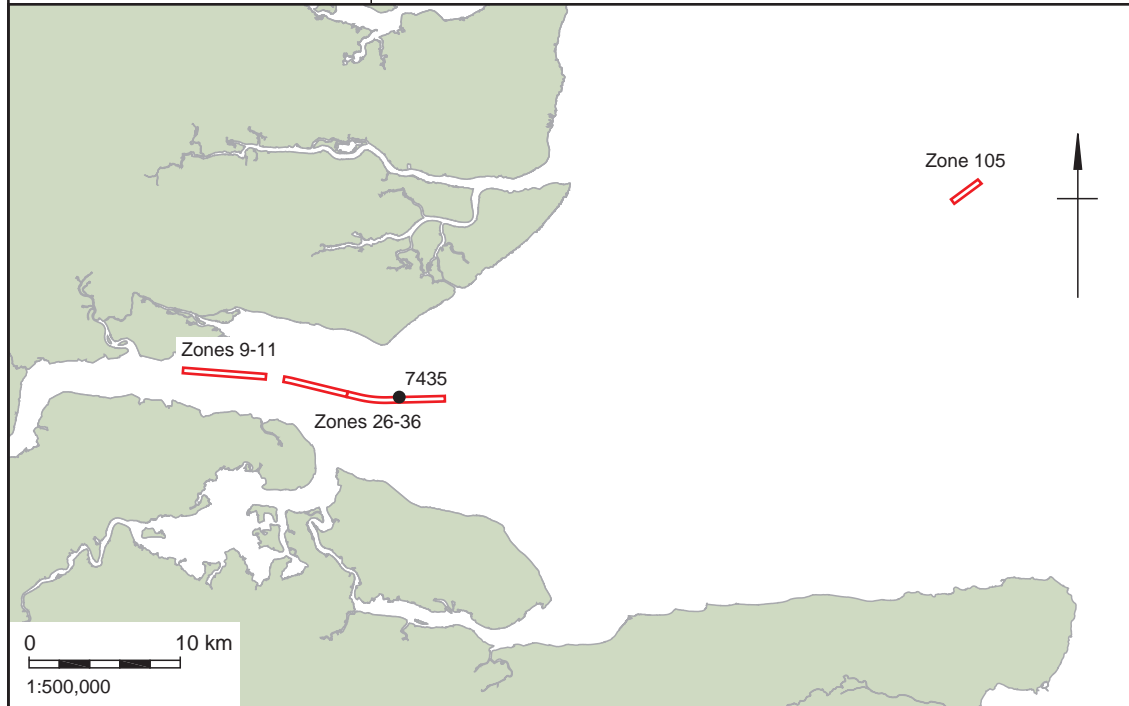


SHEET 17: WA ID 7435 DEBRIS

Location		347316 E, 5706677 N (UTM30N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 16.0m x 8.1m x 0.0m. Relatively large area of scattered, irregular dark reflectors, approximately centred on feature 7435. The anomalies differ in appearance, from small debris fields to stronger, isolated reflectors with shadows. The central four features (7433, 7434, 7435 and 7436) area associated with a large 179nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the northern edge of the dredged channel, partially outside of the study area. A concentrated scatter of different pieces of debris and small debris fields, the magnetic anomaly indicating a significant amount of ferrous debris is possibly buried in the vicinity. Possibly the remains of a degraded structure, similar in appearance to the known remains of the "Iron Bar Wreck" (WA ID 7245).		



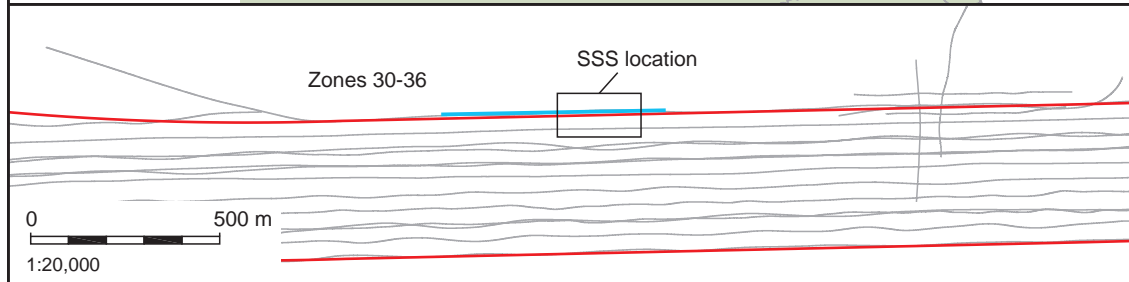
7435: Sidescan sonar mosaic



7435: Sidescan sonar waterfall



7435: Magnetometer profile

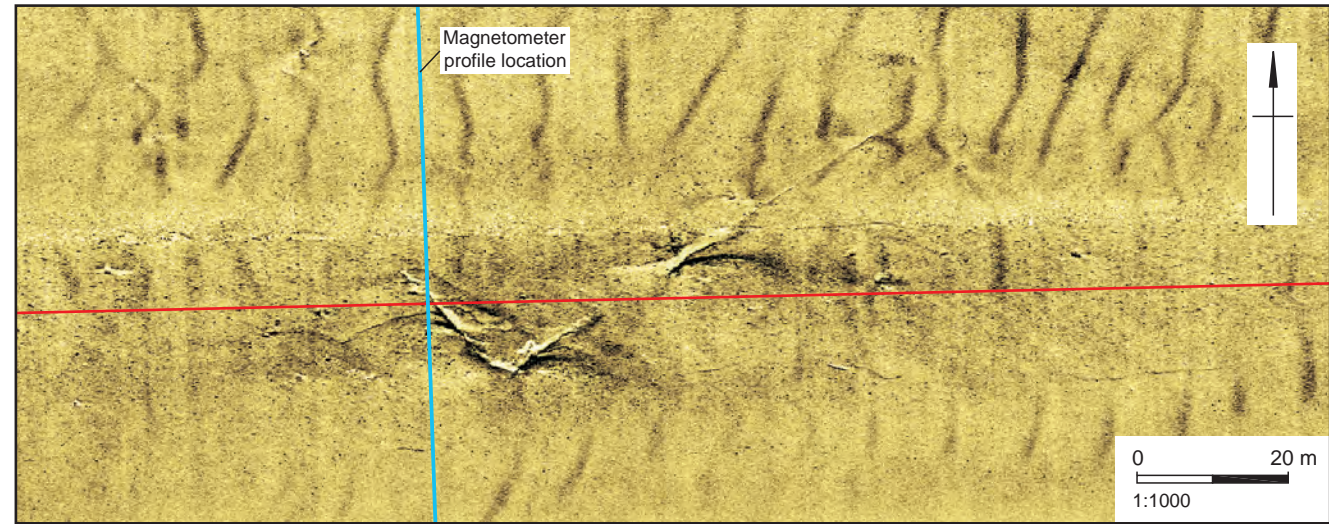
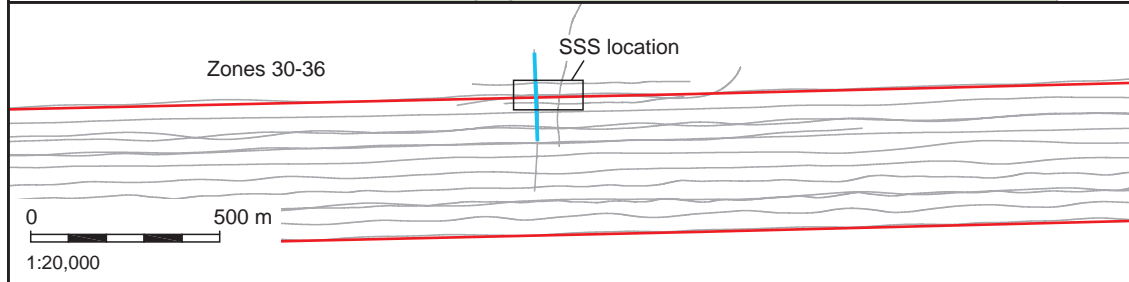


Drawing projection: UTM WGS84 z31N.
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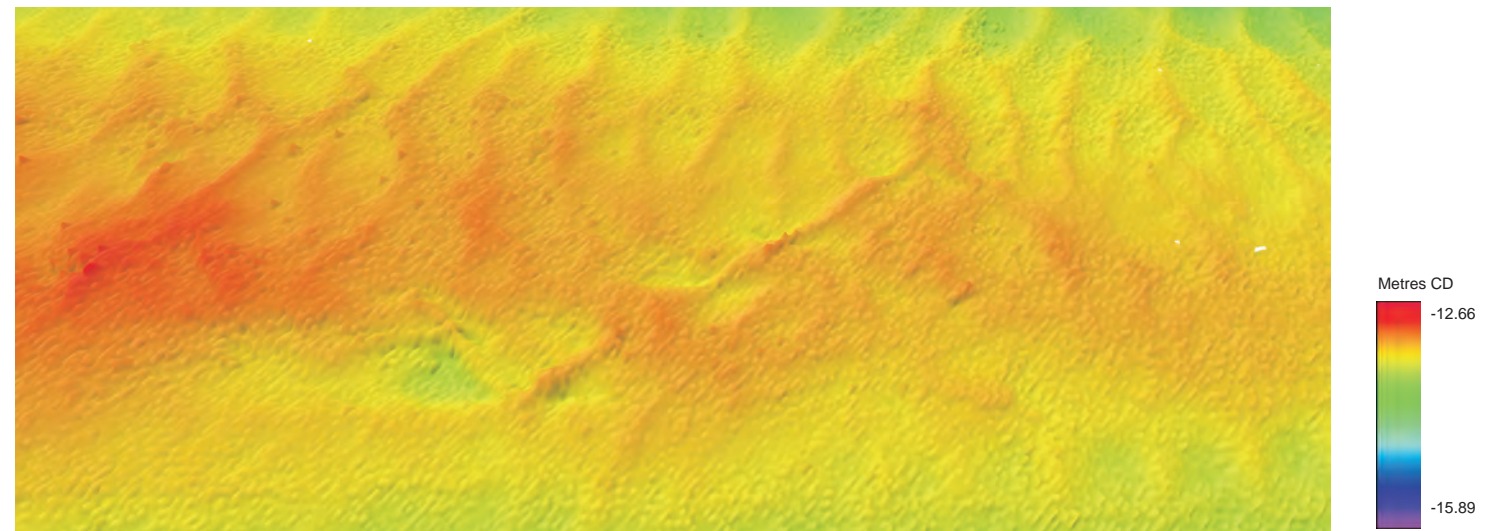
Date:	17/01/12	Revision Number:	0	Illustrator:	KJF
Path:	W:\Projects\79800\Drawing Office\Report figs\Geophys\12_01_13				

SHEET 18: WA ID 7452 "SUBMARINE BOOM"

Location		410399 E, 5968036 N (UTM30N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 76.2m x 21.2mm x 0.3m. Straight, right angled linear dark reflector identified by both the sidescan sonar and multibeam bathymetry, and associated with a complex 59nT magnetic anomaly. Located on the northern edge of the dredged channel, just outside of the current geophysical study area. Numerous other dark reflectors have been identified within the vicinity, indicating debris spread over a relatively wide area.		
Build	Type	Site has not been definitively identified.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		The structure is not currently present within the UKHO or NMR database, and is not known to have been previously identified by the PLA. Sidescan sonar data from 2002, and pre-dredge multibeam bathymetry data, show the same area covered by sand waves, indicating the feature has probably only been exposed relatively recently. The feature appears similar to a recorded "submarine boom", located approximately 800m to the SE on the southern edge of the dredged channel (WA ID 7473, UKHO 58374, PLA 794), part of past anti-submarine defences of the Thames. It is possible that this feature is another, previously unknown, section of these defences.		



7452: Sidescan sonar



7452: Multibeam bathymetry image, x10 vertical exaggeration, facing north

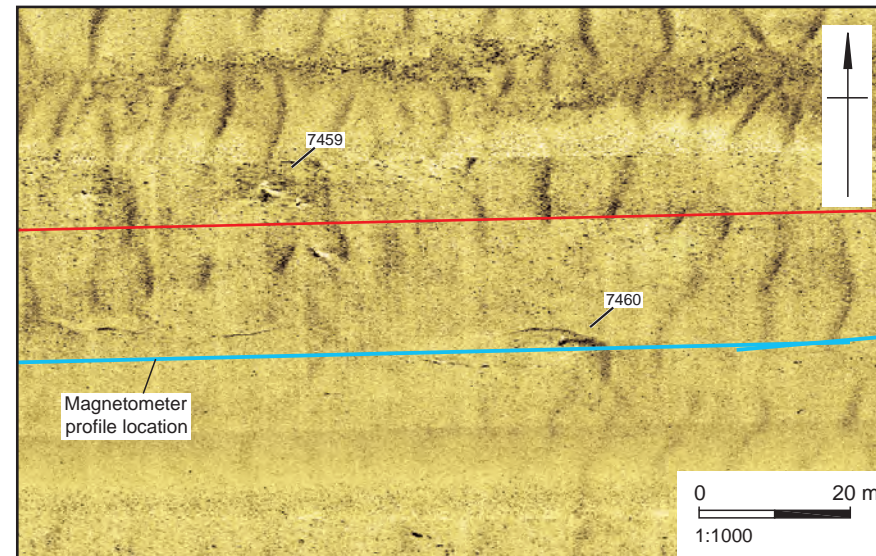
- Study Areas
- Track plot
- Magnetometer profile location



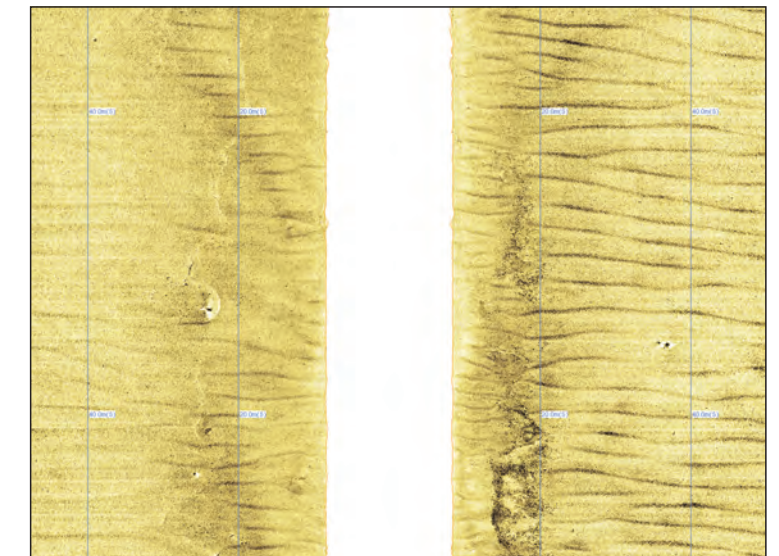
7452: Magnetometer profile

SHEET 19: WA ID 7458, 7459 & 7460 DEBRIS

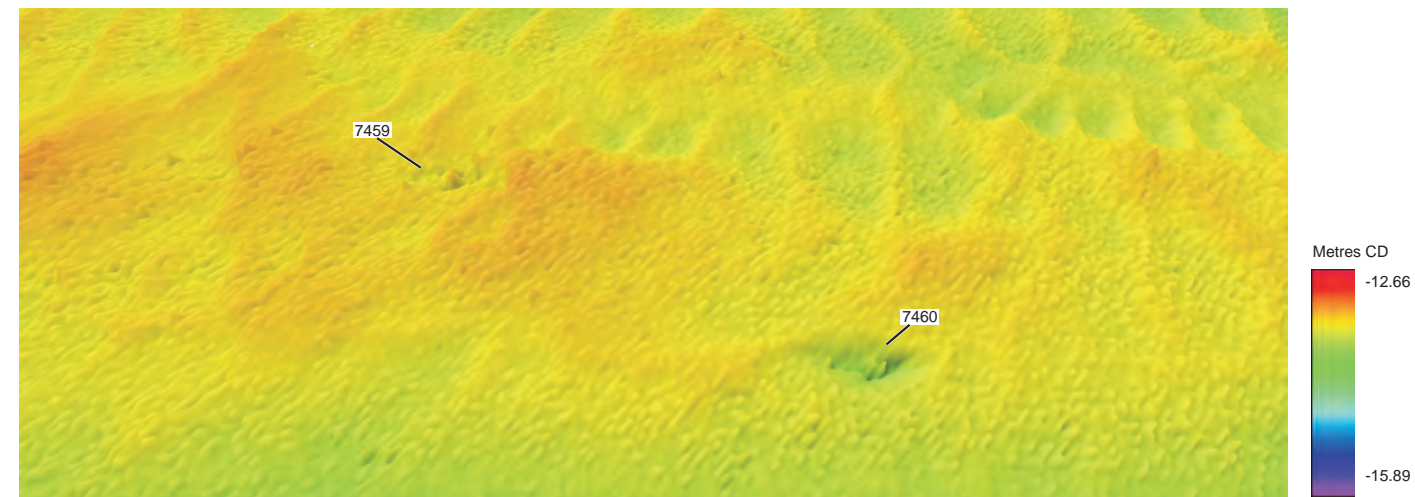
Location		348325 E, 5706706 N (UTM31N) 348365 E, 5706687 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		7459 Dimensions: 11.0m x 5.0m x 0.2m. 7460 Dimensions: 12.5m x 6.5m x -0.4m. Two separate features located within the same area. 7459 is an area of irregular seabed or small low mound, poorly defined on sidescan sonar data but more visible on multibeam bathymetry data. 7460 is a small depression containing a curvilinear dark reflector, possibly a length of rope or chain, and an associated dark reflector. Both are located close to a large 135nT magnetic anomaly (7458).		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the northern edge of the dredged channel. The features are prominent enough to be identified by multibeam bathymetry, and are associated with a large magnetic anomaly, indicating they area possibly ferrous debris. The size of the magnetic anomaly indicates there may be other buried ferrous debris in the vicinity.		



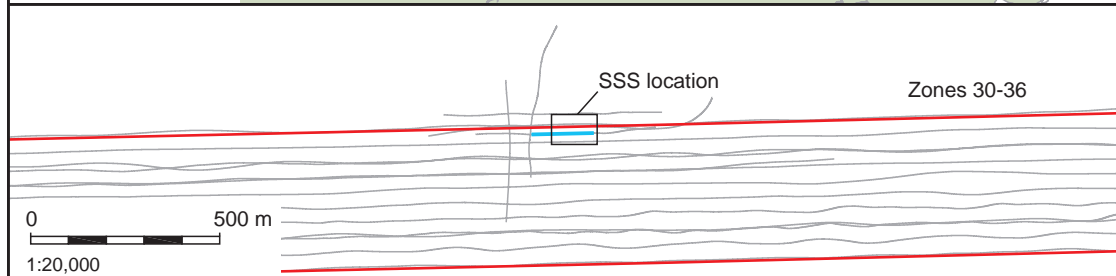
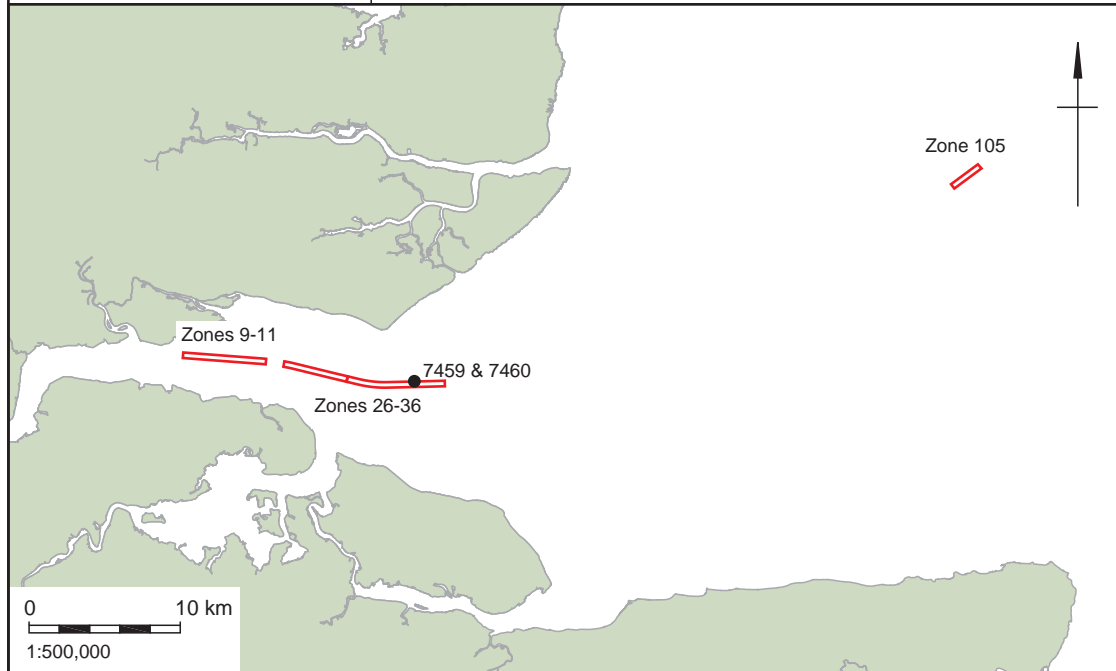
7458, 7459 & 7460: Sidescan sonar mosaic



7458, 7459 & 7460: Sidescan sonar waterfall



7458, 7459 & 7460: Multibeam bathymetry image, x10 vertical exaggeration, facing north



7458, 7459 & 7460: Magnetometer profile

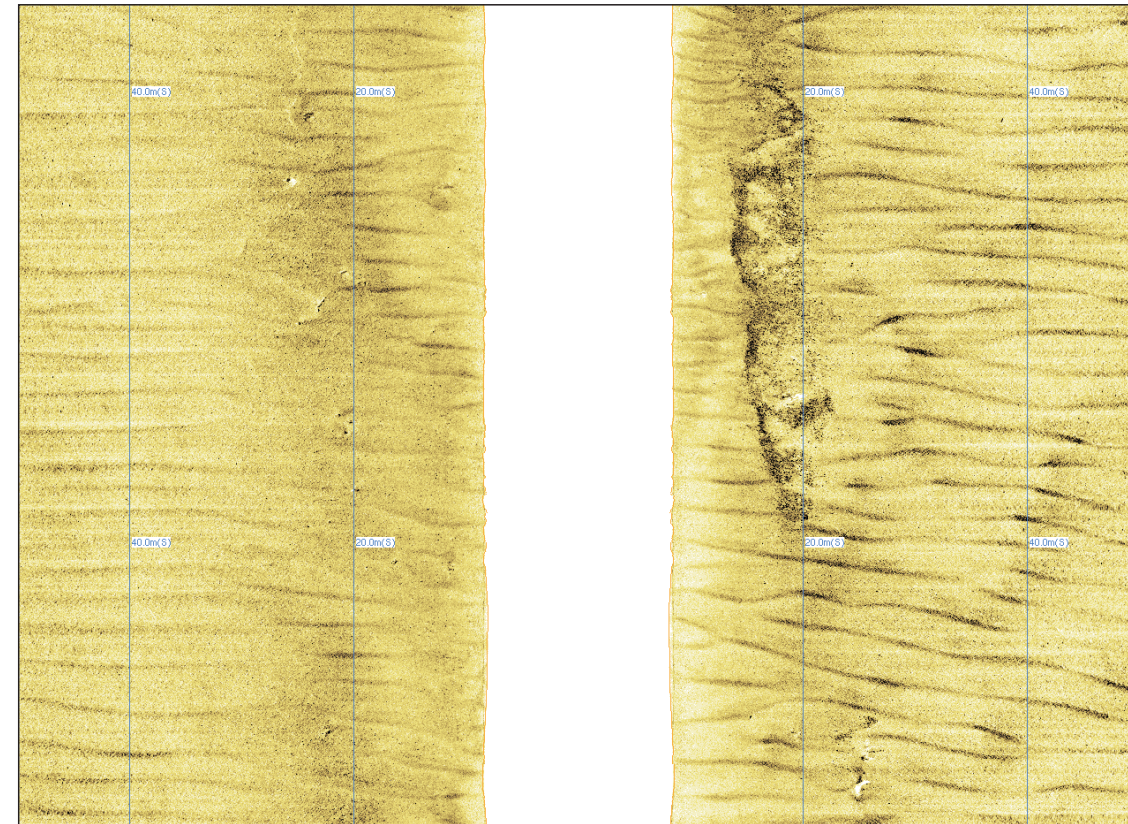
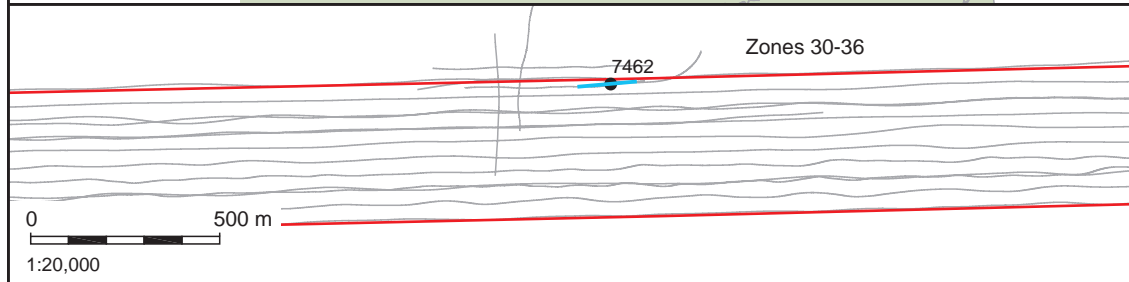


Drawing projection: UTM WGS84 z31N.
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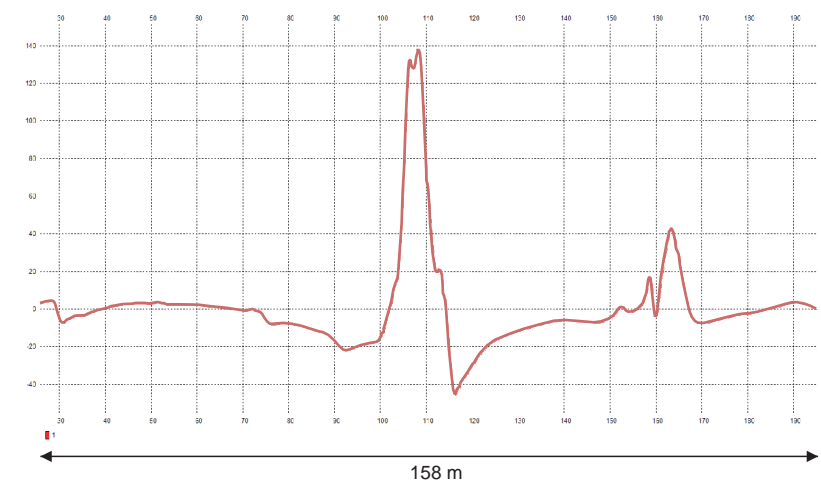
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SHEET 20: WA ID 7462 DEBRIS

Location		348473 E, 5706691 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 16.7m x 0.3m x 0.0m. A poorly defined, intermittent, curvilinear dark reflector, possibly a partially buried length of rope or chain. Located in an area of small, scattered dark reflectors, and associated with a large 123nT magnetic anomaly.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyards			
Loss	Cause			
Extent of Survival		Not known to have been previously identified by UKHO or PLA, and not mapped as a feature or obstruction. Located on the northern edge of the dredged channel. The main feature is poorly defined, but is associated with a large magnetic anomaly. This, combined with the scatter of small, irregular dark reflectors in the immediate surrounding area, suggests the presence of a significant amount of partially buried ferrous debris located within the vicinity.		



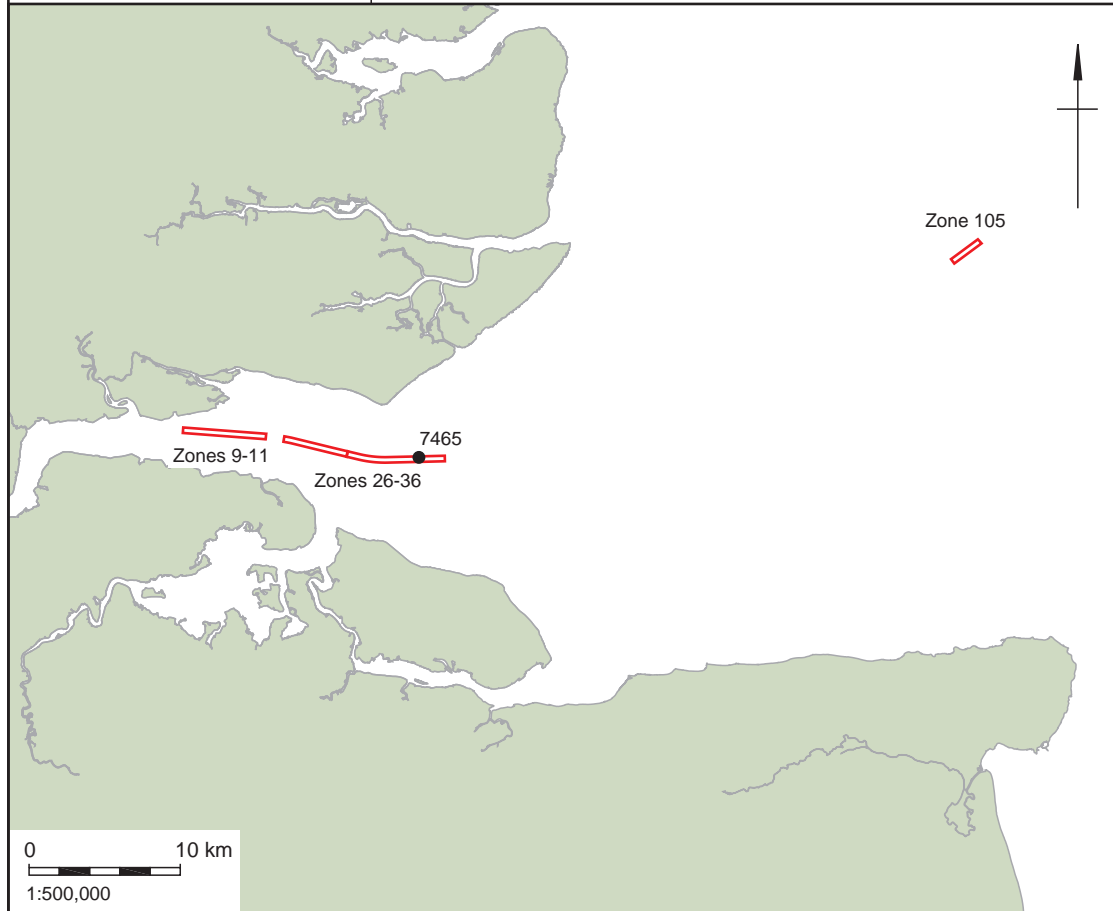
7462: Sidescan sonar waterfall



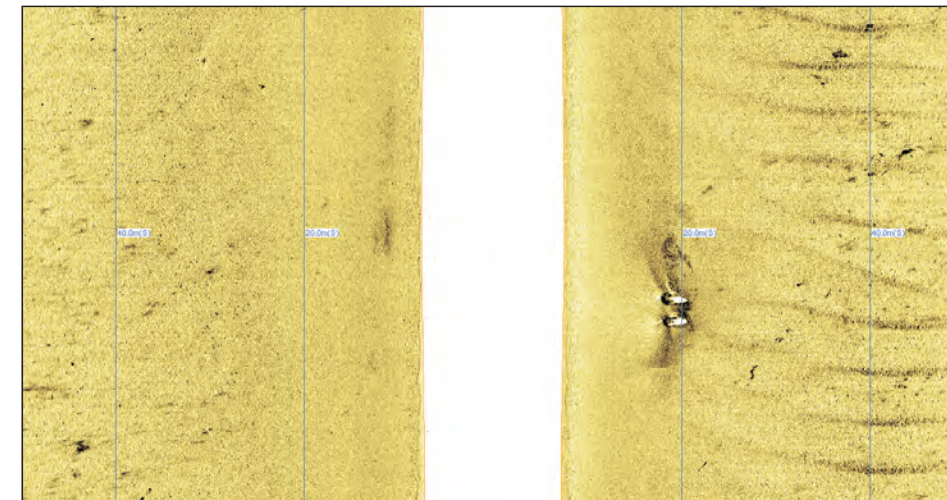
7462: Magnetometer profile

- ▭ Study Areas
- Track plot
- Magnetometer profile location

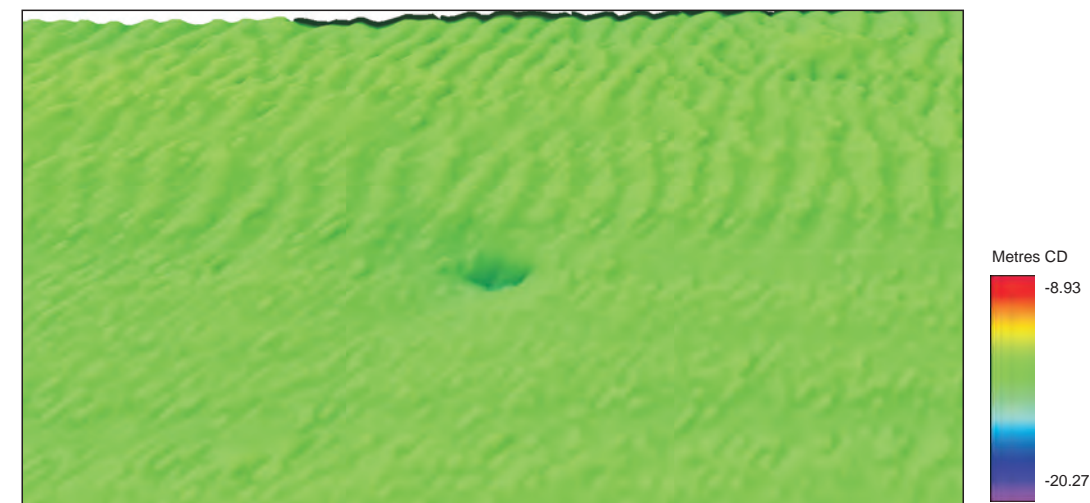
Location		348648 E, 5706648 N (UTM31N)	Zone	26-36
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 27m x 17.5m x -1.0m. A large, distinct, oval depression containing two similar, adjacent, strong dark reflectors with shadows. The reflectors are approximately the same size, measuring 2.0m x 1.0m x 0.7m and are located in the centre of the depression. The immediately surrounding seabed is generally featureless, making this a prominent feature. No magnetic anomaly has been found associated with this feature.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Located within the dredged channel, towards its northern side. The prominent nature of the anomalies indicates they are possibly man-made, though the lack of a magnetic anomaly suggests they are non-ferrous in nature. They are located in an area where numerous remains of a submarine boom have been reported, especially a structure 430m WNW (WA ID 7452) and another 410m SSE (WA ID 7473), and so could potentially be related, though further investigation would need to be undertaken to confirm this.		



7465: Sidescan sonar mosaic



7465: Sidescan sonar waterfall

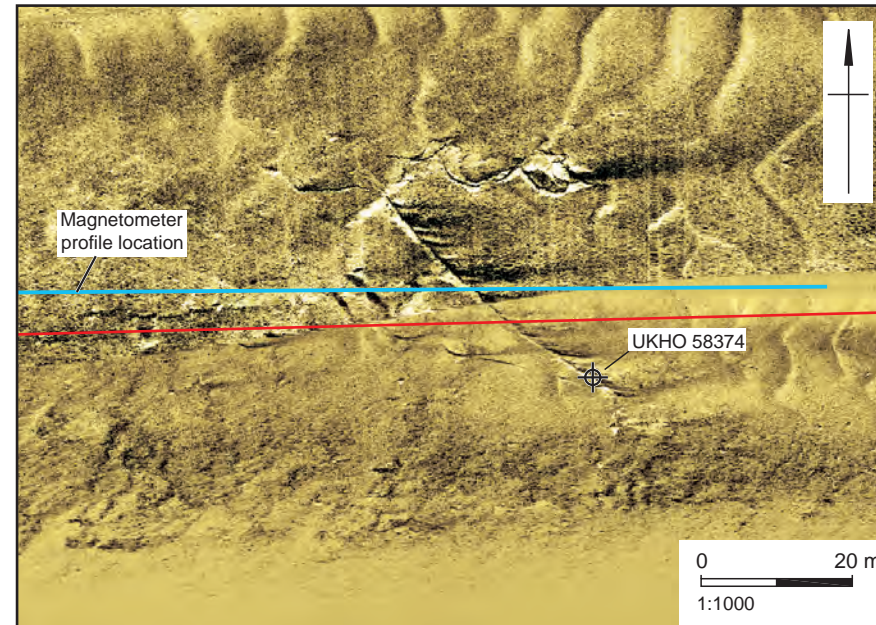


7465: Multibeam bathymetry image, x10 vertical exaggeration, facing north

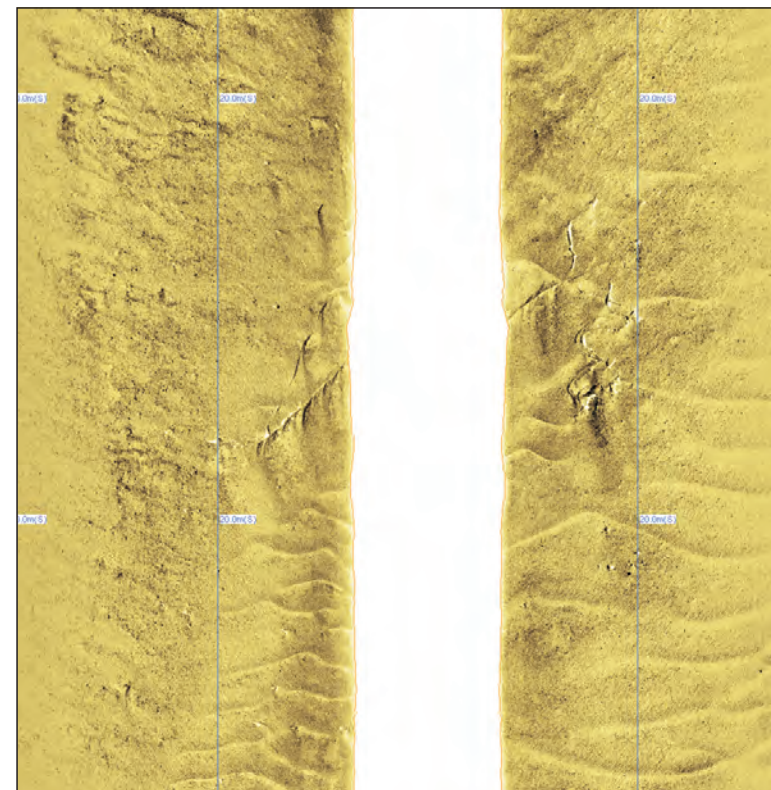
Study Areas

SHEET 22: WA ID 7473 "SUBMARINE BOOM" UKHO 58374

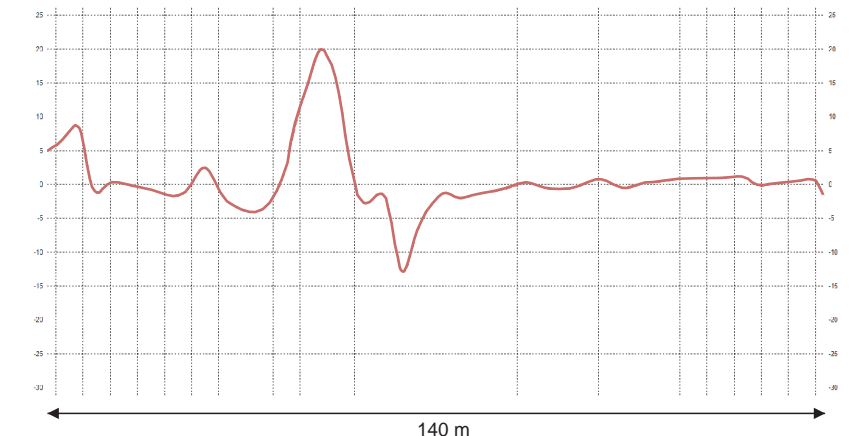
Location		410399 E, 5968036 N (UTM31N)	Zone	26-36
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 57.5m x 46.7m x 0.0m. Area of irregular dark reflectors, mainly comprising a straight, linear dark reflector with curvilinear dark reflectors extending from either end. Possibly a structure with attached lengths of rope or chain, and an associated 26nT magnetic anomaly indicates the presence of some ferrous material. Located on the southern edge of the dredged channel, close to the site of a recorded "Submarine Boom".		
Build	Type	Possible Submarine Boom (part of).		
	Construction	Probably concrete and cables		
	Dimensions	N/A		
	Shipyard	N/A		
Loss	Cause	N/A		
Extent of Survival		Recorded as foul ground by UKHO, investigations by PLA have recovered sinkers and other debris from this location, suggesting it is the remains of past anti-submarine defences of the Thames. It is similar in appearance to another, previously unrecorded, feature located 800m NW on the northern edge of the channel (WA ID 7452).		



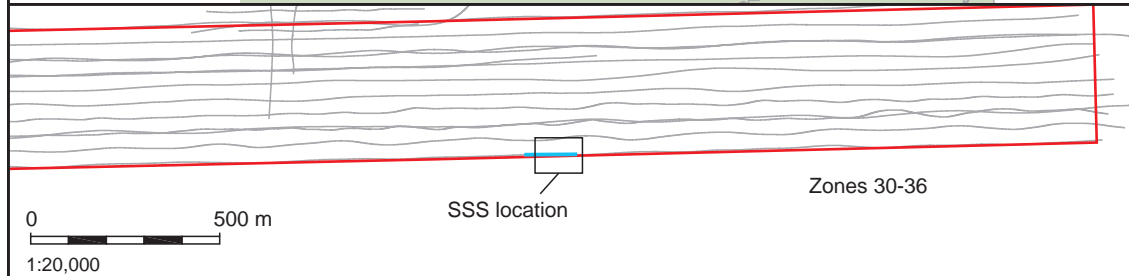
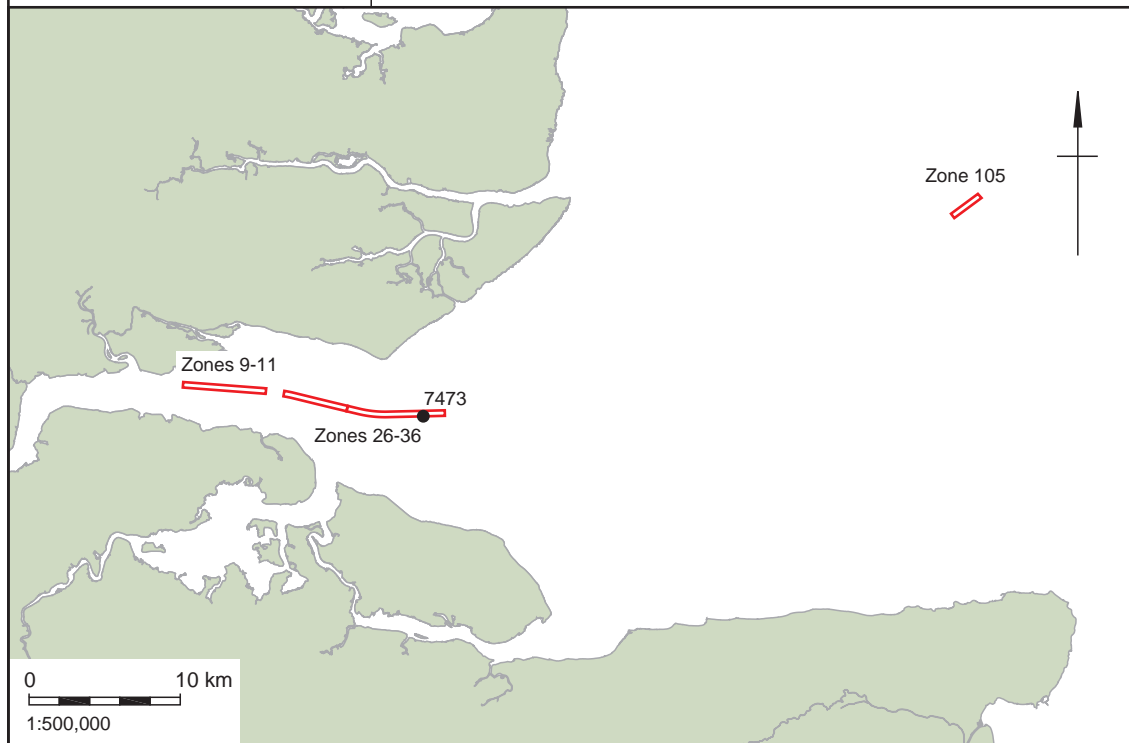
7473: Sidescan sonar mosaic



7473: Sidescan sonar waterfall



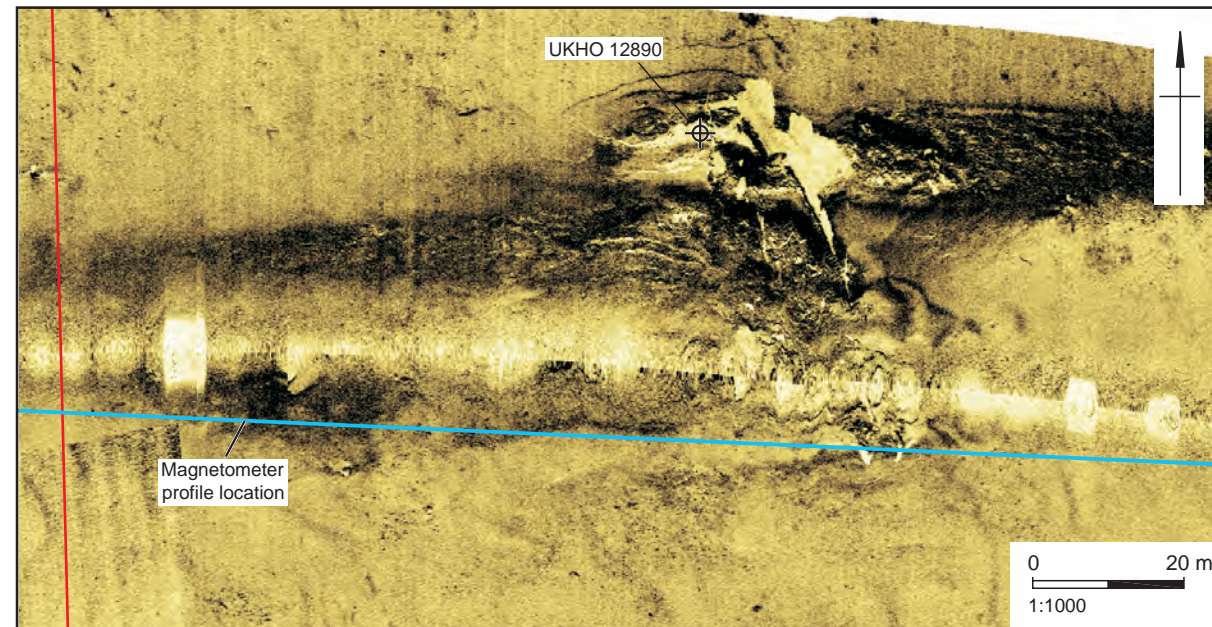
7473: Magnetometer profile



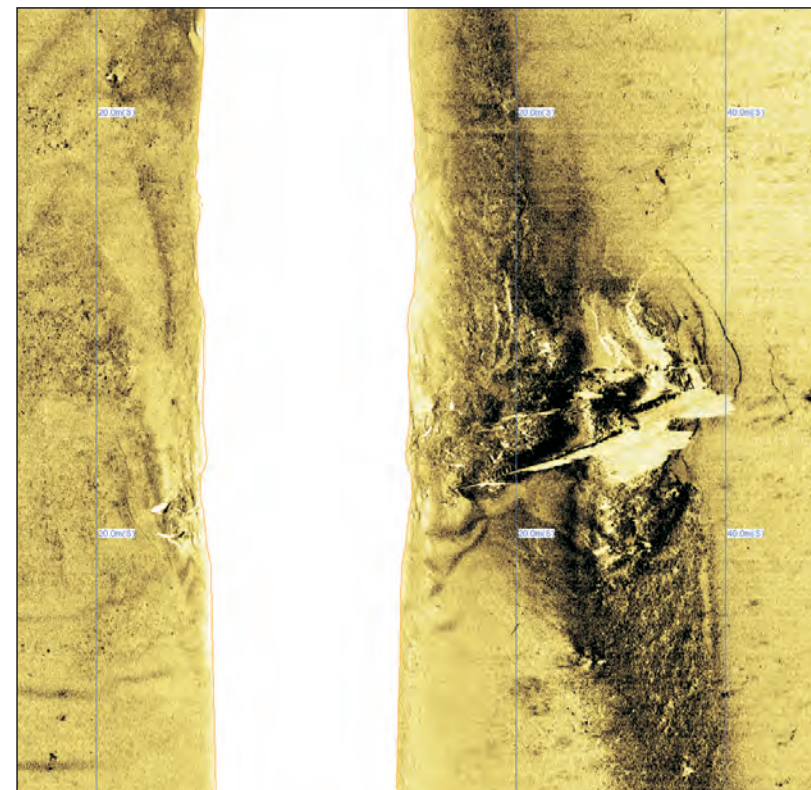
- ▭ Study Areas
- Track plot
- Magnetometer profile location
- ⊕ UKHO position

SHEET 23: WA ID 7519 DOVENBY (NORTH) UKHO 12890

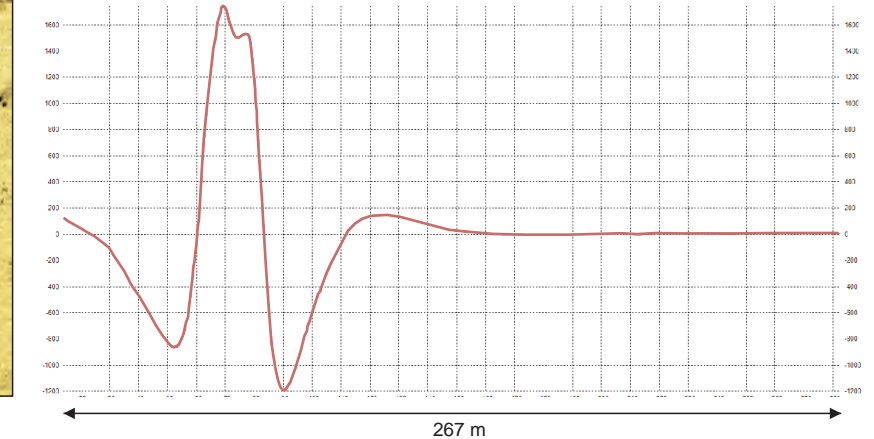
Location		410399 E, 5968036 N (UTM30N)	Zone	26-36
Archaeological Importance		High (Site previously subject to CMS)		
Geophysical survey dimensions and notes		Dimensions: 59.5m x 25.5m x 2.2m. Obvious, upstanding wreck located within a large, deep scour which extends to the east and west of the structure. Although a large part of coherent structure remains, numerous areas appear broken up and debris is scattered within the immediate vicinity, especially within the scour. A very large (2840nT) magnetic anomaly indicates the vessel has a steel hull.		
Build	Type	Unknown		
	Construction	Steel hull		
	Dimensions	Unknown		
	Shipyard	Unknown		
Loss	Cause	Unknown		
Extent of Survival		Originally thought to be a section of the Dovenby (WA ID 7517, UKHO 12888), subsequent geophysical investigations indicate this site, still referred to as Dovenby (North), is actually a different, as yet unidentified, vessel. The wreck appears similar to the Dovenby in that it is a steel hulled vessel of similar size. Diving investigations have revealed it has been significantly cut up and dispersed with explosives, and is now lying on its side within a deep scour.		



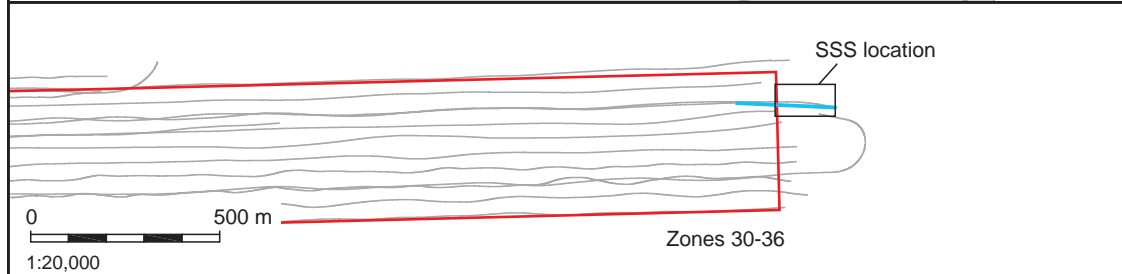
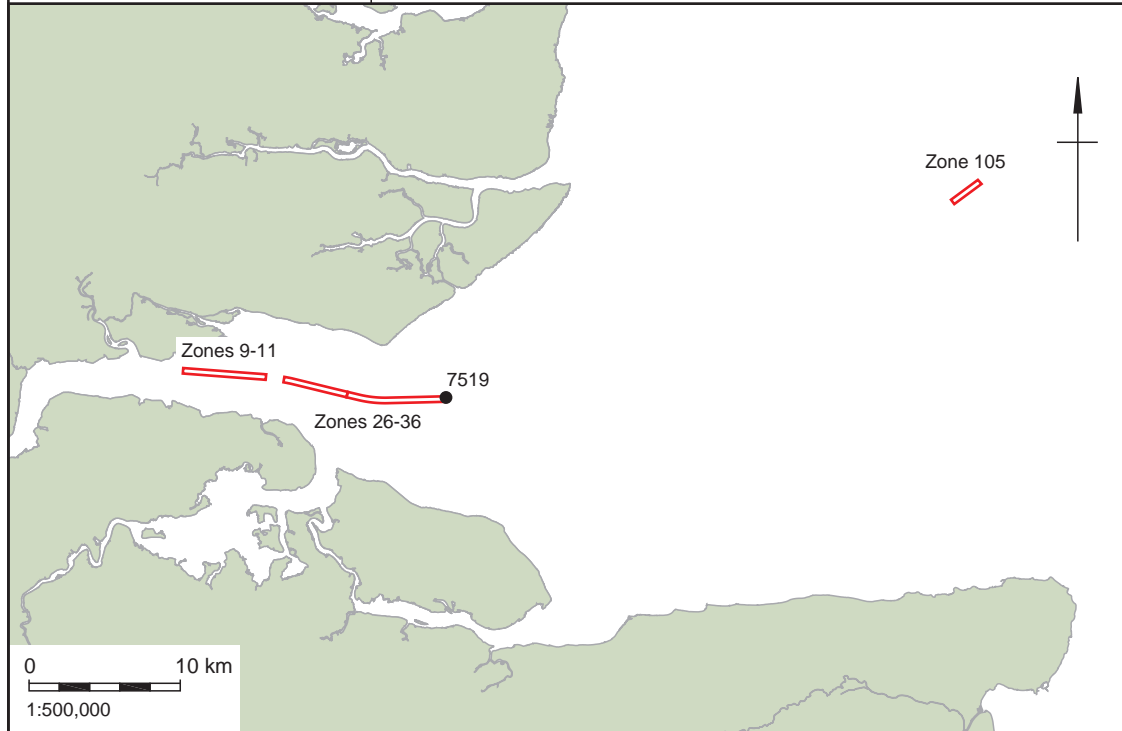
7519: Sidescan sonar mosaic



7519: Sidescan sonar waterfall

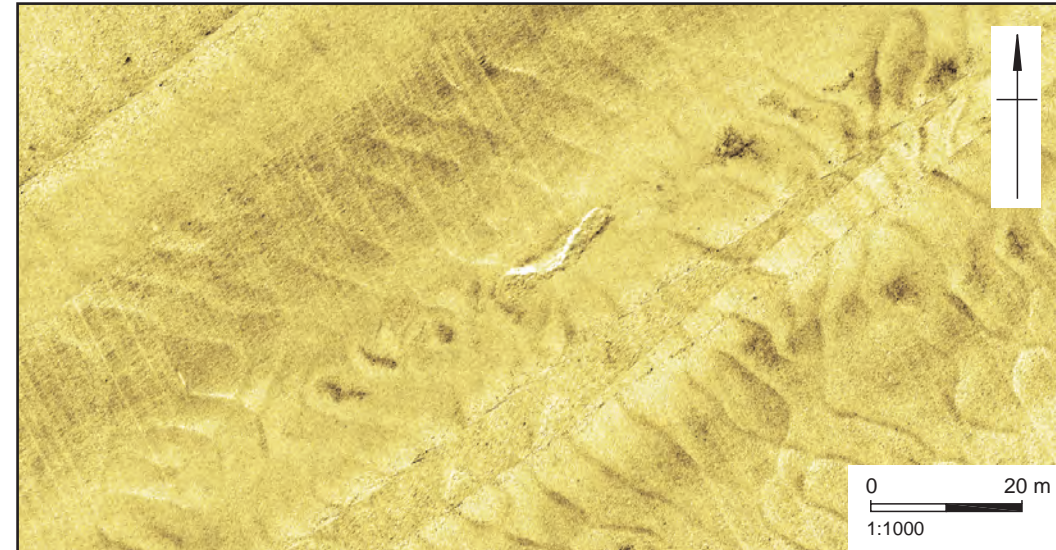


7519: Magnetometer profile

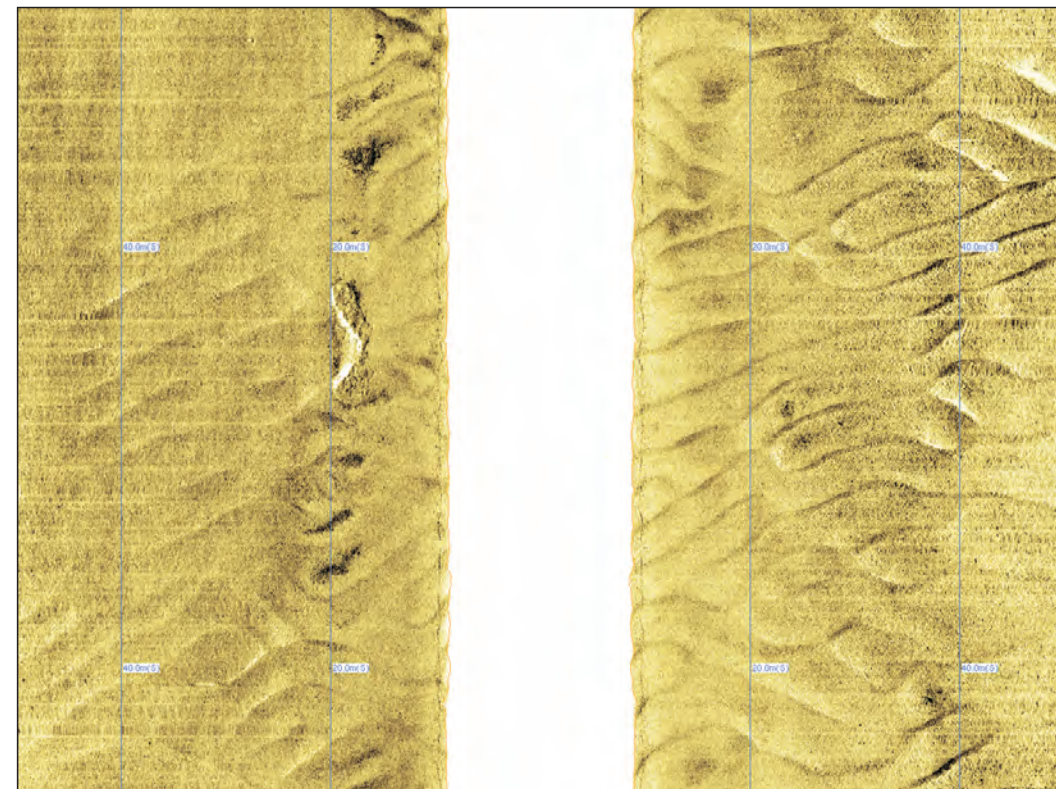
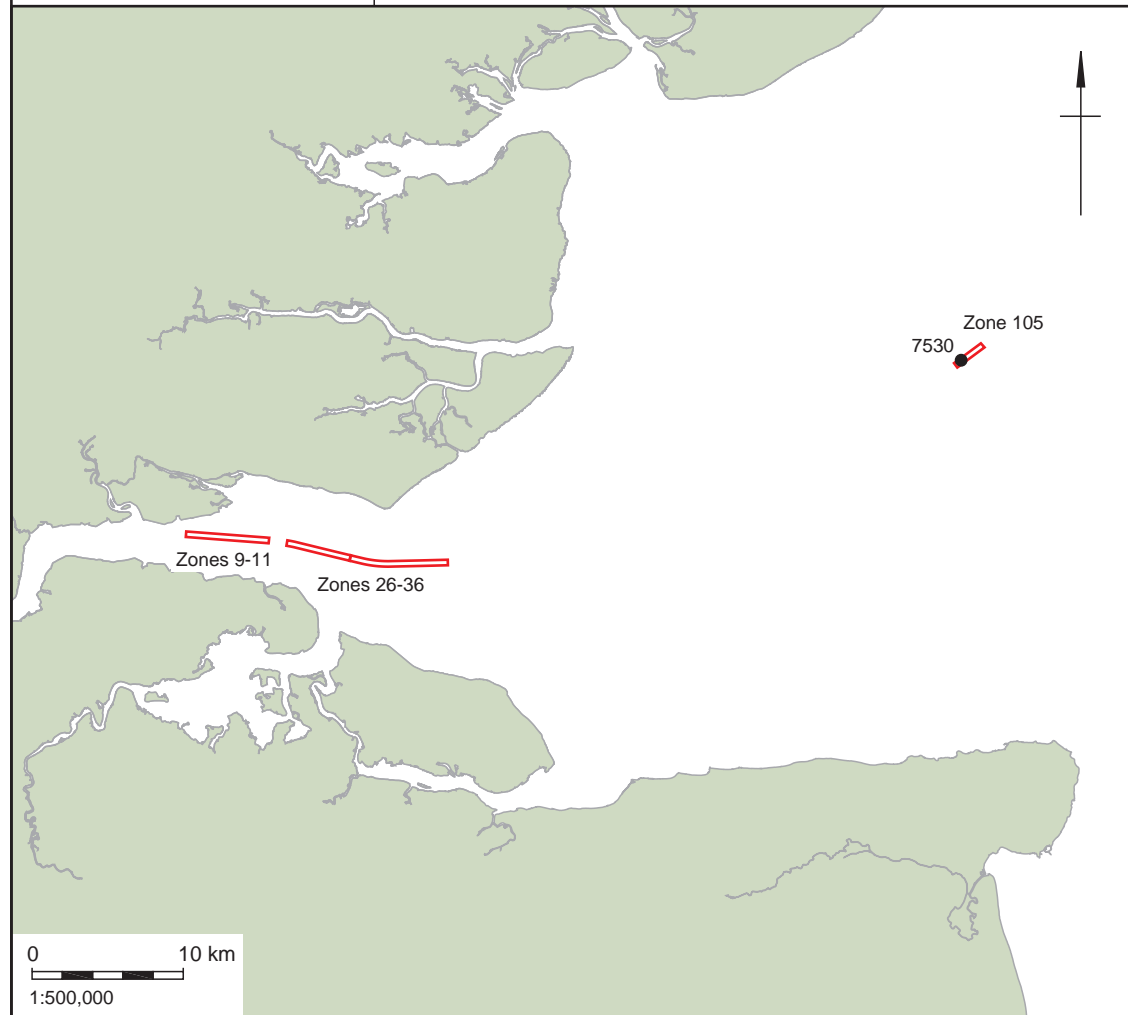


- Study Areas
- Track plot
- Magnetometer profile location
- ⊕ UKHO position

Location		384314 E, 5719914 N (UTM31N)	Zone	105
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 21.0m x 4.3m x 0.4m. An unusual shaped seabed mound, possibly a curvilinear feature with sediment deposited over it, mainly identified on the sidescan sonar data though very tentatively identified by the multibeam bathymetry. The feature appears isolated in an area of poorly defined sand ripples, and is orientated at 90 degrees to the direction of the crests of the sand ripples.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Located within the dredged channel, the feature is within an area of mobile sand and could represent a mound of partially buried debris or a small structure. The lack of an associated magnetic anomaly indicates any structure or debris present is likely to be non-ferrous in nature.		



7530: Sidescan sonar mosaic

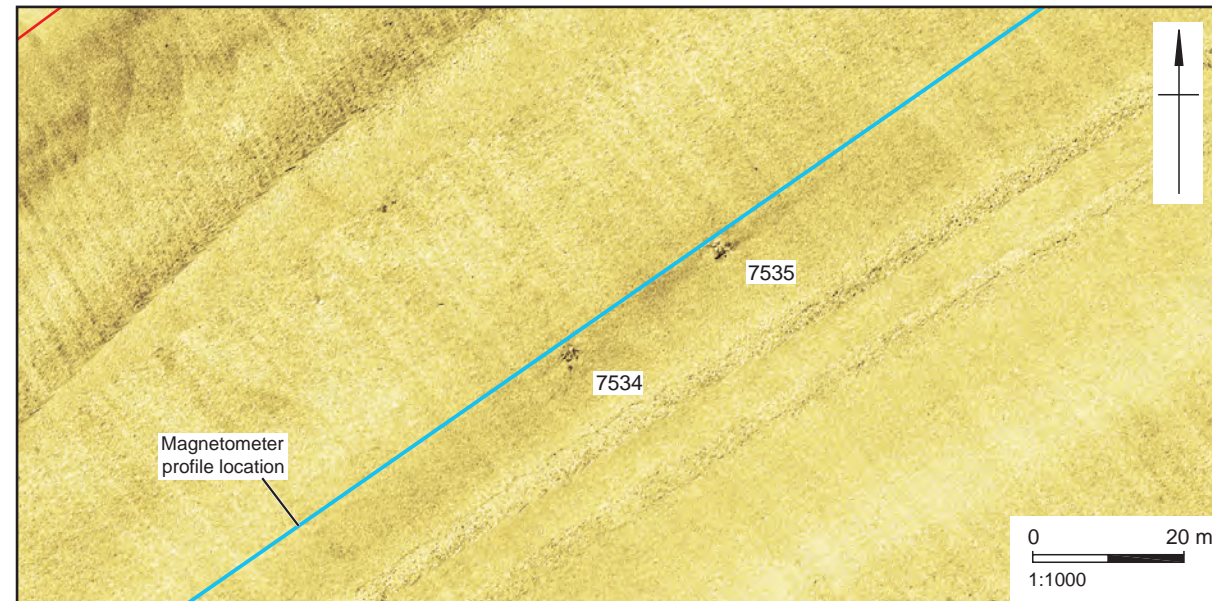


7530: Sidescan sonar waterfall

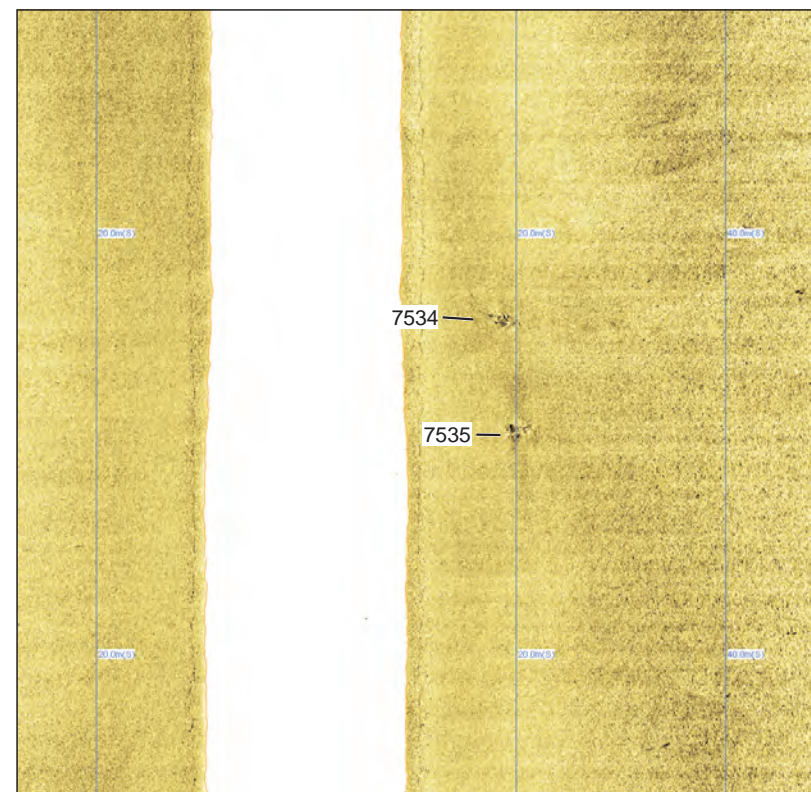
Study Areas

SHEET 25: WA ID 7534 & 7535 DEBRIS

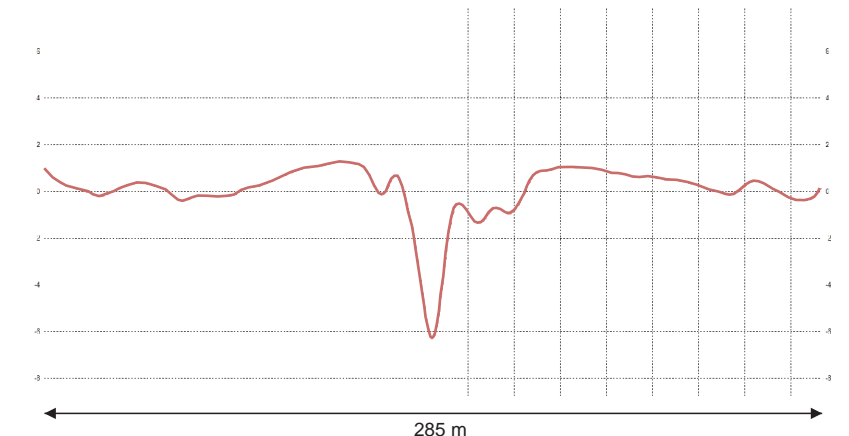
Location		385130 E, 5720611 N (UTM31N) 385151 E, 5720625 N (UTM31N)	Zone	105
Archaeological Importance		High (New site)		
Geophysical survey dimensions and notes		Dimensions: 5.4m x 2.7m x 0.0m. Dimensions: 4.1m x 2.7m x 0.0m. Two similar, irregular dark reflectors located approximately 25m apart and associated with a small but distinct 8nT magnetic anomaly. Despite their small size and lack of measurable height, both stand out clearly from the surrounding featureless seabed and were identified on more than one survey line.		
Build	Type	Not confirmed as a structure.		
	Construction			
	Dimensions			
	Shipyard			
Loss	Cause			
Extent of Survival		Not previously known to have been identified by UKHO or PLA, and not mapped as a feature or obstruction. Located within the dredged channel and area from which aircraft remains have previously been recovered (Strike 8024). The small but distinct nature of the features, alongside the small magnetic anomaly, indicates they are also possible pieces of debris from an aircraft.		



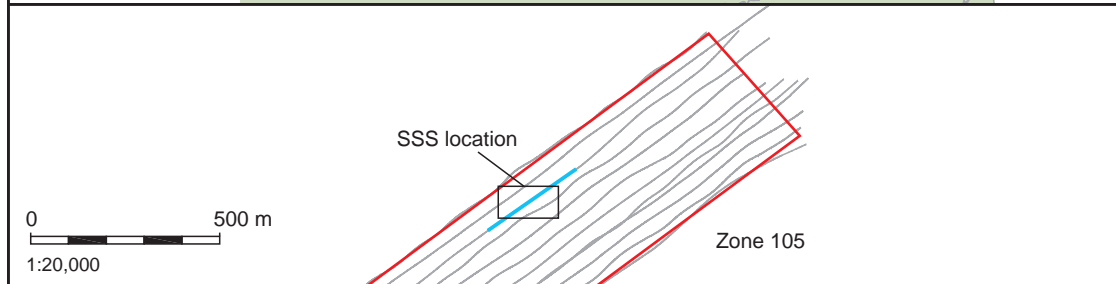
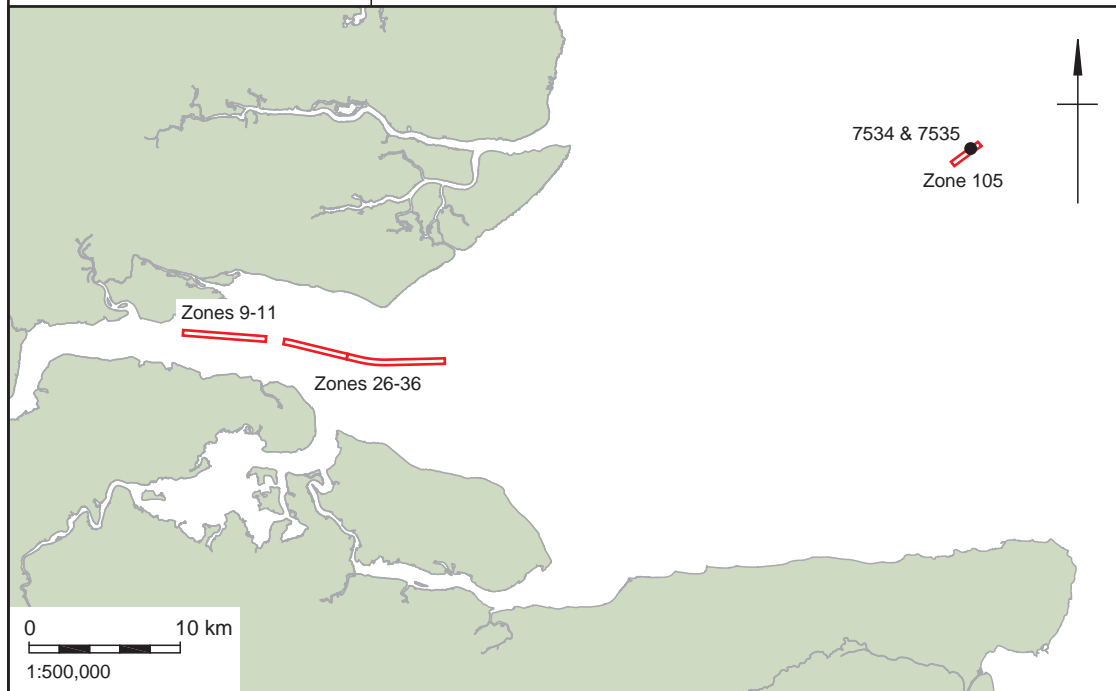
7534 & 7535: Sidescan sonar mosaic



7534 & 7535: Sidescan sonar waterfall



7534 & 7535: Magnetometer profile





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