



Norfolk Vanguard Offshore Wind Farm Outline Written Scheme of Investigation (Offshore)

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Glossary

| AEZ | Archaeological Exclusion Zones |
|-------|---|
| AHOB | Ancient Human Occupation of Britain |
| DCO | Development Consent Order |
| DEFRA | Department for Environment, Food and Rural Affairs |
| DML | Deemed Marine Licence |
| EMU | EMU Limited (geophysical survey contractor) |
| EPP | Evidence Plan Process |
| ES | Environmental Statement |
| ETG | Expert Topic Group |
| Fugro | Fugro Survey B. V. (geophysical and geotechnical survey contractor) |
| HDD | Horizontal Directional Drilling |
| HSC | Historic Seascape Characterisation |
| MHWS | Mean High Water Springs |
| MLWS | Mean Low Water Springs |
| ММО | Marine Management Organisation |
| NHER | Norfolk Historic Environment Record |
| NPPF | National Planning Policy Framework |
| NPS | National Policy Statement |
| NRHE | National Record of the Historic Environment |
| NSIPs | Nationally Significant Infrastructure Project |
| nT | nanoTesla |
| OWF | Offshore Wind Farm |
| PAB | Pathways to Ancient Britain |
| PEIR | Preliminary Environmental Information Report |
| ROV | Remote Operated Vehicle |
| UKHO | United Kingdom Hydrographic Office |
| WSI | Written Scheme of Investigation |
| | |

Terminology

| Array cables | Cables which link the wind turbine generators and the offshore substation platform. |
|---------------------------------|--|
| Interconnector cables | Buried offshore cables which link the offshore electrical platforms. |
| Landfall | Where the offshore cables come ashore at Happisburgh South. |
| Offshore accommodation platform | A fixed structure (if required) providing accommodation for offshore personnel. An accommodation vessel may be used instead. |
| Offshore cable corridor | The corridor of seabed from the Norfolk Vanguard OWF sites to the landfall site within which the offshore export cables would be located. |
| Offshore electrical platform | A fixed structure located within the wind farm area, containing electrical equipment to aggregate the power from the wind turbines and convert it into a more suitable form for export to shore. |
| Offshore export cables | The cables which bring electricity from the offshore substation platform to the landfall. |





| Offshore project area | The overall area of Norfolk Vanguard East, Norfolk Vanguard West and the offshore cable corridor. |
|-----------------------|---|
| Safety zones | An area around a vessel which should be avoided during offshore construction. |
| Scour protection | Protective materials to avoid sediment being eroded away from the base of the foundations as a result of the flow of water. |
| The Applicant | Norfolk Vanguard Limited. |
| The OWF sites | The two distinct offshore wind farm areas, Norfolk Vanguard East and Norfolk Vanguard West. |
| The project | Norfolk Vanguard Offshore Wind Farm, including the onshore and offshore infrastructure. |





1.1 Introduction

- 1. This outline Written Scheme of Investigation (WSI) (offshore) (hereafter the "Offshore WSI") has been produced to set out the proposed approach to archaeological mitigation and investigations to be undertaken in association with the offshore and intertidal project areas (below Mean High Water Springs (MHWS)) of the Norfolk Vanguard offshore wind farm (hereafter 'the project'). Onshore archaeology and cultural heritage are not considered in this document (see Onshore WSI document reference 8.5).
- 2. An updated, final Offshore WSI will be developed in consultation with Historic England, post-consent. This final Offshore WSI will be reviewed and updated as necessary prior to construction based on the final design of the project.
- 3. The requirement for this is set out in the draft Deemed Marine Licence, under DCO Schedules 9 and 10 condition 14(1)(h) and Schedules 11 and 12 condition 9(1)(h). which states:

An archaeological written scheme of investigation in relation to the offshore Order limits seaward of mean low water, which must accord with the outline written scheme of investigation (offshore) and industry good practice, in consultation with the statutory historic body to include—

(i) details of responsibilities of the undertaker, archaeological consultant and contractor;

(ii) a methodology for further site investigation including any specifications for geophysical, geotechnical and diver or remotely operated vehicle investigations;

(iii) archaeological analysis of survey data, and timetable for reporting, which is to be submitted to the MMO within four months of any survey being completed;

(iv) delivery of any mitigation including, where necessary, identification and modification of archaeological exclusion zones;

(v) monitoring of archaeological exclusion zones during and post construction;

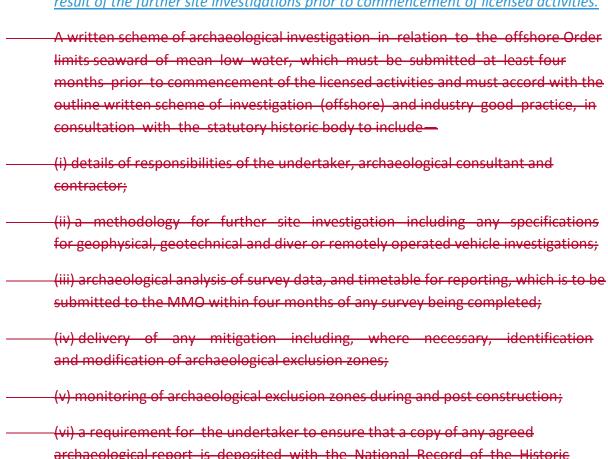
(vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the National Record of the Historic Environment, by submitting a Historic England OASIS (Online Access to the Index of archaeological investigations) form with a digital copy of the report within six months of completion of construction of the authorised scheme, and to notify the MMO that the OASIS form has been submitted to the National Record of the Historic Environment within two weeks of submission;





(vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised scheme; and

(viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order Limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities.



- (vi) a requirement for the undertaker to ensure that a copy of any agreed archaeological report is deposited with the National Record of the Historic Environment, by submitting a Historic England OASIS (Online Access to the Index of archaeological investigations') form with a digital copy of the report within six months of completion of construction of the authorised scheme, and to notify the MMO that the OASIS form has been submitted to the National Record of the Historic Environment within two weeks of submission;
- (vii) a reporting and recording protocol, including reporting of any wreck or wreck material during construction, operation and decommissioning of the authorised scheme; and
- (viii) a timetable for all further site investigations, which must allow sufficient opportunity to establish a full understanding of the historic environment within the offshore Order Limits and the approval of any necessary mitigation required as a result of the further site investigations prior to commencement of licensed activities.





The DMLs set out certain timescales in advance of commencement of the licensed activities, by when the offshore WSI must be submitted to the MMO for their approval.

4.

1.2 Project Background

- 4.5. Norfolk Vanguard comprises two distinct offshore areas, NV East and NV West, which are in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points). These two areas are included in the Environmental Impact Assessment (EIA) and Development Consent Order (DCO) application process as a single project.
- 5.6. The project would consist of between 90 and 200-180 turbines, each having a rated capacity of between 9-10 and 20MW, with a total installed capacity of up to 1,800MW.
- 6.7. Norfolk Vanguard Limited is currently considering constructing the project in a single phase or two phases, up to a total capacity of 1800MW.
- 7.8. Construction of the project under either approach would be anticipated to commence between 2020 and 2021 for the onshore works, and around 2024 for the offshore works.

1.3 Guidance and best practice

- 8.9. In demonstrating adherence to industry good practice, this outline Offshore WSI has been compiled with respect to available archaeological guidance for offshore development including:
 - Protocol for Archaeological Discoveries: Offshore Renewables Projects (The Crown Estate, 2014);
 - Chartered Institute for Archaeologists (CIfA) Code of Practice and Standards and Guidance (CIfA, 2014a, 2014b, 2014c, 2014d);
 - Marine Geophysical Data Acquisition, Processing and Interpretation guidance notes (Plets R., Dix J. and Bates R., 2013);
 - Offshore Geotechnical Investigations and Historic Environment Analysis:
 Guidance for the Renewable Energy Sector (Gribble and Leather, 2011)
 - Model Clauses for Archaeological Written Schemes of Investigation: Offshore Renewables Projects (The Crown Estate, 2010);
 - Historic Environment Guidance for the Offshore Renewable Energy Sector.
 Guidance (Wessex Archaeology, 2007); and
 - Code for Practice for Seabed Development (Joint Nautical Archaeology Policy Committee (JNAPC), 2006).





1.4 Approach

- 9.10. The fundamental objectives of a WSI are set out in the Model Clauses for Archaeological Written Schemes of Investigation: Offshore Renewables Projects (The Crown Estate, 2010) as follows:
 - Set out the respective responsibilities of the Developer, main contractors, and archaeological contractors/consultants, to include contact details and formal lines of communication between the parties and with archaeological Curators;
 - Ensure that any further geophysical and geotechnical investigations associated with the project are subject to archaeological input, review, recording and sampling;
 - Provide for archaeological involvement in any diver and/or ROV obstruction surveys conducted for the scheme;
 - Establish the exact position and extent of archaeological exclusion zones, and methodologies for their monitoring, modification and/or removal;
 - Propose measures for mitigating effects upon any archaeological material encountered during the operation and decommissioning of the scheme; and,
 - Establish the reporting, publication, conservation and archiving requirements for the archaeological works undertaken in the course of the scheme.
- 10.11. The Model Clauses were prepared by Wessex Archaeology for The Crown Estate (2010) in order to set out agreed archaeological methodologies so that they do not have to form part of the drafting and agreement of each WSI prepared for the offshore renewables industry. As such, these methodologies will not be duplicated here. Rather, this outline Offshore WSI draws upon these standard, agreed methodologies and, for each section, sets out how these are relevant to the delivery of Norfolk Vanguard and explains any necessary adaptations and amendments for agreement with Historic England.

1.5 Archaeological and Historical Background

- 11.12. The following section provides a summary of the known and potential archaeological and cultural resource of the offshore project area and its environs based on Chapter 17 Offshore and Intertidal Archaeology and Cultural Heritage in the Environmental Statement (ES) and associated gazetteers.
- 12.13. The main source of data was the technical report authored by Wessex Archaeology (Appendix 17.1 to the ES) which itself was informed by:





- Geophysical survey and geotechnical data acquired for the project by Fugro Survey B. V. (Fugro) between September and November 2016 over NV West and the offshore cable corridor;
- Geophysical survey data previously acquired over NV East by EMU Limited (EMU) and over the eastern end of the offshore cable corridor by Coastline Surveys Ltd in 2012;
- The United Kingdom Hydrographic Office (UKHO) data for charted wrecks and obstructions;
- The National Record of the Historic Environment (NRHE) maintained by Historic England, comprising data for terrestrial and marine archaeological sites, find spots and archaeological events;
- The National Heritage List for England maintained by Historic England, comprising data of designated heritage assets including sites protected under the Protection of Military Remains Act 1986 and the Protection of Wrecks Act 1973;
- The Norfolk Historic Environment Record (NHER), comprising a database of all recorded terrestrial and marine archaeological sites, find spots and archaeological events within the county and offshore;
- The HSC report for East Yorkshire to Norfolk (Newcastle University, 2014);
- The Coastal and Intertidal Zone Archaeology Network (CITiZAN) project database of archaeological find spots;
- Relevant mapping including Admiralty Charts, historic maps and Ordnance Survey; and
- Relevant documentary sources and grey literature held by Wessex Archaeology, and those available through the Archaeological Data Service and other websites.

1.5.1 Seabed Prehistory

- 13.14. There are no known seabed prehistory sites within the study area. Prehistoric archaeology at the landfall at Happisburgh is discussed in section 1716.
- 14.15. Wessex Archaeology (ES Appendices 17.2-17.4) has identified a broad pattern of eight geological units and 171 features of paleogeographic potential indicative of former terrestrial environments, based upon the assessment of sub-bottom profiler data and the assessment of vibrocore samples. The geological units, and the archaeological potential associated with each unit, are detailed in Table 1 Table 1 Table 1
 Not all eight units are identified in any one area and the precise stratigraphy varies according to location.





Table 1 Shallow geological units identified within the study areas by Wessex Archaeology (Appendix 17.4 Table 2)

| WA Unit | Fugro Unit | Geological Unit | Geoarchaeological and Archaeological Potential |
|------------|---------------|--------------------|--|
| 8 | A1 | Holocene seabed | Gravelly sand with shell fragments, sand waves and ripples indicate |
| | | sediments | sediment is mobile. Low potential in areas of mobile sediment: basal |
| | | Post-transgression | contact may cover old land surfaces. |
| | | (MIS 1) | |
| 7 | A2 | Holocene | Fluvial, estuarine and terrestrial (including peat) deposits. Shallow |
| | | sediments | infilled depressions or channels with potential for preserved organic |
| | | Pre-transgression | material of palaeoenvironmental significance. |
| | | (MIS 2-1) | |
| 6 | В | Twente Formation | Thin layer of aeolian periglacial sand. Potential to contain in-situ and |
| | | Upper Devensian | derived archaeological and palaeoenvironmental material. |
| | | (MIS 2) | |
| 5 | С | Upper Brown Bank | Clayey silty sand infilling channels or hollows and deposited in an |
| | | Formation | intertidal/lagoon environment. Potential for in-situ Lower |
| | | Early/Mid | Palaeolithic artefacts. Middle Palaeolithic artefacts may be |
| | | Devensian (MIS | associated with channel edges dependent on age of infill. Basal |
| | | 5d-3) | contact may cover old land surface. |
| 4 | C/D | Lower Brown Bank | Silty sand and sandy silt. Possible intertidal or shallow marine |
| | | Formation / Eem | deposit. In-situ Lower Palaeolithic artefacts may be protected. |
| | | Formation | Middle Palaeolithic artefacts may be associated with channel edges |
| | | Ipswichian or | dependent on age of infill. Basal contact may cover old land surface. |
| | | Lower Devensian | |
| | | (MIS 5e–5d) | |
| 3 | E | Swarte Bank | Silty sandy clays associated with the Anglian glaciation. Unlikely to |
| | | Formation | contain archaeological material. |
| | | Anglian (MIS 12) | |
| 2 | F | Yarmouth | Silty sand with occasional shell fragments, deposited as part of |
| | | Formation | marine |
| | | Lower to Middle | delta complex. Low potential, unlikely to contain archaeology or |
| | | Pleistocene | deposits of palaeoenvironmental significance. |
| | | (MIS >13) | |
| 1 | I | Westkapelle | Deltaic silty clays and sands. Pre-date earliest occupation; of no |
| | | Ground | archaeological interest |
| | | Formation | |
| | | Pliocene – Lower | |
| | | Pleistocene (MIS | |
| | | 103-63) | |

15.16. The archaeological potential associated with the above geological sequence and palaeogeographic features is described in detail in sections 4.2 and 4.3 of Appendix 17.1. In summary, the key areas of potential for seabed prehistory within the study area comprise:





- Potential for Lower Palaeolithic artefacts and landsurfaces protected by overlying Brown Bank Formation;
- Potential for Middle Palaeolithic artefacts associated with Unit 4 (Lower Brown Bank) where present in NV East, identified tentatively within the offshore cable corridor and sporadically in NV West as scattered remnants at the base of Unit 5;
- Potential for Middle Palaeolithic derived and in situ artefacts and intact organic material of palaeoenvironmental interest associated with Unit 5 (Brown Bank Formation) identified as a blanket deposit across the study area, particularly in association with channel features as seen in NV West and the offshore cable corridor;
- Potential for post-glacial Upper Palaeolithic *in situ* archaeological material and palaeoenvironmental material associated with Unit 6 in NV West and possibly in two small areas within the offshore cable corridor to the south of NV West;
- Potential for Mesolithic *in situ* archaeological material and palaeoenvironmental material associated with Unit 7. In particular:
 - The peat layer identified in NV West and the offshore cable corridor may represent a buried land surface and is considered of high archaeological and palaeoenvironmental potential, as it could contain *in situ* archaeological artefacts and preserved organic material;
 - The pre-transgression fluvial features identified in NV West and the offshore cable corridor are deemed to be of high archaeological interest as they may provide evidence of a former terrestrial environment and could contain both *in situ* or derived anthropogenic artefacts and preserved palaeoenvironmental material; and
 - The isolated cut and fill features identified in NV West and the offshore cable corridor may be the remnants of eroded palaeochannel systems although, as their nature is less certain, they are considered of lower archaeological potential.

1.5.2 Maritime and Aviation Archaeology

16.17. Seabed features of archaeological interest are discriminated by Wessex Archaeology in accordance with the definitions set out in Table 2Table 2.

Table 2 Wessex Archaeology's Criteria discriminating relevance of seabed features

| Archaeological Discrimination | | Description |
|-------------------------------|----|--|
| Non- | U1 | Not of anthropogenic origin |
| Archaeological | U2 | Known non-archaeological feature |
| | U3 | Position of a recorded loss at which no physical wreck remains have ever been identified |





| Archaeological Discrimination | | Description |
|---|----|---|
| Archaeological A1 Anthropogenic origin of archaeological interest | | Anthropogenic origin of archaeological interest |
| | A2 | Uncertain origin of possible archaeological interest |
| A3 His | | Historic record of possible archaeological interest – UKHO reference to feature |
| | | that shows no trace on seabed |

17.18. A total of 1234 features of maritime or aviation archaeological interest, or potential archaeological interest, have been identified within the boundaries of NV East, NV West and the offshore cable corridor. These are summarised in Table 3, listed in the Appendix 2 and shown on Figures 17.8 to 17.16 in Volume 2 of the ES.

Table 3 Features of archaeological potential within the study area

| Archaeological Discrimination | Number of seabed features | | | Total | |
|----------------------------------|---------------------------|---------|----------------------------|-------|--|
| | NV East | NV West | Offshore Cable Corridor | | |
| A1 | 5 | 11 | 26 | 42 | |
| A2 | 312 | 172 | 706 | 1190 | |
| А3 | 1 | 1 | 0 | 2 | |
| Total | 318 | 184 | 732 | 1234 | |

18.19. The A1 features identified as being of archaeological interest, comprising wrecks, magnetic only buried anomalies and larger items of debris and debris fields, are summarised in Table 4Table 4.

Table 4 Summary of A1 anomalies within the study area

| WA ID | Туре | Summary | Area |
|-------|----------|--|---------|
| 70021 | Wreck | Unidentified, partially buried wreck with an associated magnetic anomaly indicating the presence of ferrous material. Not previously charted. | NV East |
| 70058 | Magnetic | Extremely strong magnetic anomaly (6587nT) without a corresponding sidescan sonar or bathymetry anomaly suggestive of a buried wreck with a significant amount of ferrous material in its construction. Charted by the UKHO (ID 11214). | |
| 70255 | Wreck | Unidentified, badly damaged and partially buried wreck with associated debris (possibly up to 125m away i.e. A2 anomalies: 70248, 70253 and 70250) and a strong magnetic anomaly indicating a significant amount of ferrous material. Located c. 35m from the recorded position of UKHO charted wreck ID 11213 | |
| 70262 | Wreck | Unidentified, intact wreck, lying on its side and partially buried with associated debris (A2 anomalies: 70263 and 70265) and an associated magnetic anomaly indicating the presence of ferrous material. Charted by the (UKHO ID 11214) | |





| WA ID | Туре | Summary | Area |
|--------|----------|---|----------|
| 74.400 | | | ı |
| 71480 | Wreck | Lies just outside NV East and is the wreck of a submarine (UKHO ID 79542) discovered in 2014. | |
| 71297 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| | | substantial buried ferrous remains. Not previously charted. | |
| 71299 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| 71301 | Debris | substantial buried ferrous remains. Not previously charted. Possibly indicative of a partially buried and previously uncharted | |
| /1301 | field | wreck with a very large magnetic anomaly indicating a substantial | |
| | Tield | quantity of ferrous material. Not previously charted. | |
| 71314 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| | | substantial buried ferrous remains. Not previously charted. | |
| 71323 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| | | substantial buried ferrous remains. Not previously charted. Possibly | |
| | | associated with 71334. | |
| 71325 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| | | substantial buried ferrous remains. Not previously charted. Possibly associated with 71334. | |
| 71332 | Debris | Debris associated with 71334. | |
| 71332 | Debris | Debris associated with 71334. | |
| 71334 | Wreck | | |
| /1554 | WIECK | Large spread of debris indicating a very broken up wreck and associated with a large magnetic anomaly indicating a substantial | |
| | | quantity of ferrous material. Charted by the UKHO (ID 11190). | |
| 71336 | Debris | Debris associated with 71334. | |
| 71479 | Magnetic | Magnetic only anomaly with no surface expression and potential to be | |
| | | substantial buried ferrous remains. Not previously charted. | |
| 70342 | Wreck | Very indistinct area of wreckage with a medium magnetic anomaly. | Offshore |
| | | Associated with UKHO record (11091) of Golden Oriole (possibly), a | cable |
| | | British trawler Sunk 22/01/1915. Previously observed in 2014 as well | corridor |
| 70360 | Wreck | broken-up. An area of wreck debris with a very high magnetic anomaly | |
| 70300 | vvieck | associated, the full extent of which may be buried. The wreck stands | |
| | | upright prominently within large sandwaves but is relatively broken | |
| | | up and in poor condition. Associated with UKHO record (11093) of | |
| | | HMS Dunoon (possibly), a British minesweeper sunk by a mine on | |
| | | 30/05/1940. Last observed as relatively intact but damaged in the | |
| | _ | bows. | |
| 70459 | Wreck | A wreck broken in two, with dispersed wreck debris and some | |
| | | structure and possible deck planking discernible. The stern and hull are not clear and the full extent of the wreck is likely buried by the | |
| | | large sandwaves in the area. The wreck has a large magnetic anomaly | |
| | | associated indicating a ferrous composition. Associated with UKHO | |
| | | record (11092) of <i>Phillipp M</i> , a steam ship which was torpedoed and | |
| | | sunk in 1944. The wreck is described as lying in two parts on the | |
| | | seabed, probably inverted, last observed in 1999. | |
| 70460 | Debris | Small piece of possible wreck debris situated 27 m south-west of wreck 70459 | |
| 70565 | Wreck | A possible area of dispersed wreck. The wreck appears to be broken | |
| | | up with large sections disjointed from the main structure of the | |
| | | wreck. A large magnetic anomaly is associated indicating some ferrous | |
| | | content. Associated with UKHO record 10722 for an unknown wreck | |
| | | described as being broken up and almost buried by sandwaves with | |
| | | debris in the wrecks vicinity, likely boilers and engine. | |





| WA ID | Туре | Summary | Area |
|-------|----------------|---|------|
| 70615 | Magnetic | Very large, magnetic only anomaly with no surface expression and | |
| | | potential to be substantial buried ferrous remains. Not previously charted. | |
| 70617 | Wreck | Large wreck possibly in two parts, with the majority of the hull intact and with deck structure visible as some straight, slatted features. There is a very large magnetic anomaly associated indicating a ferrous construction. Associated with the UKHO record (10544) for <i>Rye</i> , a steamship lying in two parts at right angles, sunk in 1941 by torpedo fire. Last observed in 2014. | |
| 70618 | Debris | Feature identified in an area of textured seafloor with a large magnetic anomaly associated indicating ferrous debris | |
| 70639 | Wreck | Large dispersed wreck, appears upright and with some structure visible with possibly two sections of wreck. The full extent and detail is likely covered by sands. There is a large magnetic anomaly associated with the wreck indicating a ferrous construction. The wreck has a possible associated piece of debris at its northern end (70640). Associated with UKHO record 10546 for <i>Trevethoe</i> , a motor vessel built in 1940 and sunk in 1941, last observed in 2014 as upright but collapsed and in two parts. | |
| 70640 | Debris | Possible wreck debris located 9 m to the north-west of wreck 70639 | |
| 70645 | Wreck | Medium sized wreck with a possible broken off linear piece of debris extending from the wreck. The wreck is intact and upright. There is a medium magnetic anomaly associated with this wreck indicating some ferrous debris. Associated with UKHO record 82114, an unknown wreck that is largely intact and partially buried, previously observed in 2016. | |
| 70659 | Wreck | Large wreck that appears to be intact though possibly partially buried by sandwaves. There is a very large magnetic anomaly associated indicating a ferrous construction. Associated with UKHO record 10849 for an unknown wreck lying in two parts, last observed in 2014. | |
| 70704 | Wreck | Wreckage of an unknown sailing vessel, relatively intact though partially buried. Has a medium magnetic anomaly associated indicating a ferrous construction. Associated with UKHO record 10545 which was last observed in 2014 as intact and mainly covered by a sandwave. | |
| 70709 | Wreck | Wreckage of steamship <i>Montferlan,</i> upright with some debris to the north-east, partially disintegrated, possibly broken up into sections. Feature has a very large associated magnetic anomaly. The UKHO record 10549 states the original length was 128m and was last observed in 2014. | |
| 70744 | Wreck | Large wreck, partially broken up but intact and lying upright on the edge of a large sandwave. Associated wreck debris may be buried by sands. With a very large magnetic anomaly indicating ferrous material. Associated with UKHO record 10548 of an unknown wreck, last observed in 2014. | |
| 70784 | Debris | Possibly part of nearby debris field (70785). Has a very large magnetic contact associated indicating ferrous debris | |
| 70785 | Debris | Small patch of disturbed seafloor with very large magnetic anomaly | |
| 70809 | field Wreck | indicating ferrous material. Possible small debris field. Wreck of steam paddle schooner <i>Seagull</i> , partially disintegrated but intact and upright and on a sandwave rich area of the seabed with some superstructure discernible in the data. With a large magnetic | |





| WA ID | Туре | Summary | Area |
|-------|-----------------|---|------|
| | | anomaly. The UKHO record 10550 states that wreck was last observed in 1994 by divers. | |
| 70810 | Debris field | Small patch of disturbed seafloor. Possible debris associated with the wreck 70809 | |
| 70832 | Debris | Small anomaly identified towards the bow of wreck 70834. Likely to be items of debris associated with wreck. | |
| 70833 | Debris | Small anomaly identified at the bow of a wreck. Possible similar debris identified nearby (70832). Likely to be items of debris associated to wreck 70834. | |
| 70834 | Wreck | Wreck of the steam screw barque <i>Xanthe</i> (UKHO 10660) sunk in 1869. Identified as a distinct, upright wreck, relatively intact, with some possible straight deck features and some associated items of debris and a medium magnetic anomaly. Last observed by the UKHO in 2002. | |
| 70934 | Wreck | Large wreck without distinguishable structural elements and appears badly degraded, though still with some height. Mostly buried and broken up and situated in a depression. Has a very large magnetic anomaly associated indicating a ferrous construction. UKHO record 10554 states this is the <i>Sheaf Water</i> , a steamship torpedoed by a German E-Boat in 1942. Previously identified in 2002. | |
| 70954 | Wreck | Large wreck that appears to be mostly intact and upright with possible deck structure visible. There is a very large magnetic anomaly associated indicating a ferrous construction. Associated with UKHO record 10680 of unknown wreck. Last observed in 1983. | |
| 70958 | Debris field | Approximately four anomalies located directly next to wreck 70962 and likely associated debris | |
| 70962 | Wreck | A large area of dispersed wreck with possible deck structure. Parts of the hull outer edge appear intact. The wreck has a debris field (70958) and possible rope or chain features in close proximity (70952, 70955, 70956 and 70959). Has a large magnetic anomaly associated indicating a ferrous construction. Associated with UKHO record 10556 for <i>Fulgens</i> , a steamship built in 1912 and sunk in 1915 by torpedo. | |

19.20. Seabed features interpreted as A2 have been identified as being of possible anthropogenic origin and have the potential to represent archaeological material on the seabed of maritime or aviation origin. Magnetic only anomalies (without visible surface expression) have the possibility to be buried objects with ferrous content that are of archaeological potential. The types of features identified are summarised in Table 5Table 5.

Table 5 Types of A2 features within the study area

| Type of feature | NV East | NV West | Offshore Cable Corridor | Total |
|-------------------------|---------|---------|----------------------------|-------|
| Debris | 16 | 18 | 45 | 79 |
| Debris Field | 6 | 13 | 25 | 44 |
| Seafloor Disturbance | 17 | 13 | 4 | 34 |
| Bright Reflector | 4 | 15 | 19 | 38 |





| Type of feature | NV East | NV West | Offshore Cable Corridor | Total |
|-----------------|---------|---------|----------------------------|-------|
| Dark Reflector | 116 | 79 | 114 | 309 |
| Rope/Chain | 11 | 2 | 30 | 43 |
| Magnetic | 142 | 31 | 463 | 636 |
| Mound | 0 | 1 | 6 | 7 |
| Total | 312 | 172 | 706 | 1190 |

- 20.21. There are two A3 historic records within the study area. The first (70079) is an unidentified obstruction (UKHO ID 11216) and the second (71377) an area of foul ground (UKHO ID 11236). Nothing was observed at these locations in the geophysical data but they are retained as the potential for buried, non-ferrous archaeological remains at these locations cannot be discounted.
- 21.22. There is also potential for the presence of further maritime archaeological material to be present, associated with Unit 8, post-transgression Holocene marine sediments present across the study area which varies in thickness from a thin veneer to sand banks up to 15m thick. This sediment could periodically bury and expose archaeological material in areas of mobile sediment. Similarly, although there are no known aircraft crash sites within the study area, there is potential for the discovery of previously unknown aircraft material, also associated with Unit 8. Mitigation measures are detailed within 1.7 and methodologies with 1.9.

1.5.3 Intertidal Archaeology

- 22.23. There are 17 previously recorded heritage assets within the intertidal zone (up to MHWS) at the landfall at Happisburgh South. Sixteen of the records relate to findspots of material on the beach (positions at which finds have previously been discovered and recorded but at which material is no longer present). The final record (1045) is the site of Happisburgh Low Lighthouse, one of two lighthouses erected in Happisburgh in 1791. By 1886 it is recorded that the lighthouse had fallen into the sea although a survey in 1980 noted that remains of part of the foundations still survived *in situ* exposed in the cliff, although the majority of the remains lay on the beach or had been covered over by sand.
- 23.24. Red brick sections of masonry, assumed to be the remains of the lighthouse, were observed on the beach during a walkover carried out by Royal HaskoningDHV in November 2017. Scattered, brick, stone, breeze blocks and large flints were also observed further along the beach just to the north west of the landfall. Military features are prevalent along this stretch of coastline and the former locations of (now demolished) features such as pillboxes, Second World War coastal defences, a coastal battery and a machine gun post are recorded in the vicinity of the landfall.





24.25. Beneath the surface deposits, ground investigations at the landfall (detailed in Appendix 28.6 of the ES) have demonstrated the presence of till (sands, clays and gravels) relating to a large doline-type geological feature (sinkhole or solution feature). The potential for archaeological material associated with this till deposit is anticipated.

1.6 Impact Assessment Summary

25.26. Potential impacts to archaeology and cultural heritage below MHWS have been assessed as part of the EIA for Norfolk Vanguard. A summary of the impacts and suggested mitigation is provided in Table 6Table 6.





Table 6 Summary of Potential Impacts Identified for Offshore and Intertidal Archaeology

| Potential Impact | Receptor | Value/Sensitivity | Magnitude | Significance | Mitigation | Residual Impact |
|---|---|----------------------|------------------------|----------------------------|--|---|
| Construction | | | | | | |
| Direct impact to known heritage assets | Wrecks and Anomalies (A1) | s and Anomalies High | | Major adverse | 50m AEZs | No impact |
| | A3 wrecks | High | High | Major adverse | Avoid location | No impact |
| | Additional anomalies (A2) | High | High | Major adverse | Avoid location | No impact |
| | Intertidal assets | Low | No impact | No impact | None | No impact |
| Direct impact to potential heritage assets | In situ prehistoric, maritime or aviation sites | High | High | Major adverse | Further assessment | Minor adverse |
| | <i>In situ</i> intertidal sites | High | Negligible | Minor adverse | Further (geoarchaeological) assessment | Minor adverse |
| | Isolated finds | Medium | Low | Minor adverse | Protocol | Minor adverse |
| Indirect impact to heritage assets from changes to physical processes | Known and potential heritage assets | Low to High | Negligible | Negligible to Minor | None | Negligible to Minor adverse/ beneficial |
| Impacts to site preservation conditions from drilling fluid breakout | Intertidal assets | Low | Negligible / No impact | Negligible | None | Negligible |
| Operation | | | | | | |
| Direct impact to known heritage assets | As for construction | | | | | No impact |
| Direct impact to potential heritage assets | In situ prehistoric, maritime or aviation sites | High | High | Major adverse | Further assessment | Minor adverse |
| Indirect impact to heritage assets from changes to physical processes | Known and potential heritage assets | Low to High | Negligible | No impact to Negligible | None | No impact to Negligible |





| Potential Impact | Receptor | Value/Sensitivity | Magnitude | Significance | Mitigation | Residual Impact | | | | |
|--|--|-------------------|------------|---------------|--|---|--|--|--|--|
| Impacts to site preservation conditions from heat loss from installed cables | Known and potential heritage assets | Low to High | No impact | No impact | None | No impact | | | | |
| Decommissioning | Decommissioning | | | | | | | | | |
| Direct impact to known heritage assets | As for construction | | | | | No impact | | | | |
| Direct impact to potential heritage assets | In situ prehistoric, maritime or aviation sites | High | High | Major adverse | Further assessment | Minor adverse | | | | |
| Indirect impact to heritage assets from changes to physical processes | As for construction (or less) | | | | | Negligible to Minor adverse/ beneficial | | | | |
| Cumulative | | | | | | | | | | |
| Direct impact to known heritage assets | In situ prehistoric, maritime or aviation sites | Low to High | High | Major adverse | Avoidance | No impact | | | | |
| Direct impact to potential heritage assets | In situ prehistoric, maritime or aviation sites | Medium to High | High | Major adverse | Further assessment/reporting protocol | Minor adverse (plus positive benefit from accumulation of data) | | | | |
| Indirect impact to heritage assets from changes to physical processes | Known and potential heritage assets | Low to High | Negligible | No impact | None | No impact | | | | |
| Transboundary | | | | | | | | | | |
| Direct impact to known heritage assets | Wrecks or aircraft of non- British origin | High | High | Major adverse | Avoidance | No impact | | | | |
| Direct impact to potential heritage assets | Wrecks or aircraft of non- British origin | High | High | Major adverse | Further assessment/ reporting protocol/ consideration of legal | Minor adverse | | | | |





| Potential Impact | Receptor | Value/Sensitivity | Magnitude | Significance | Mitigation | Residual Impact |
|---|---|-----------------------|-------------------|--------------------------|---|---|
| | | | | | status in country of origin | |
| | Prehistoric, maritime and aviation archaeological resource (across national boundaries) | Medium to High | High | Major adverse | Further assessment/ reporting protocol | Minor adverse (plus positive benefit from accumulation of data) |
| Indirect impact to heritage assets from changes to physical processes | Tidal ellipses show that all r impacts will not occur. | movement is in a nort | h south direction | so will not cross the in | ternational boundary and t | ransboundary |





1.7 Committed Mitigation Measures

1.7.1 Embedded Mitigation

- 26.27. In order to prevent significant impacts, the following mitigation will be embedded in the project design and is secured through conditions set out in the DCO (and DML Schedule 9 and 10, Part 4, Requirement 14 (1) (h)):
 - 50m AEZs around the extents of known wreck sites (A1s) and 50m around the point locations of A1 magnetic only anomalies within which no development related activities will take place (see section 1.9.3);
 - Avoidance, where possible, of identified anomalies (A2s) or previously recorded sites that have not been seen in the geophysical data (A3s) by micro-siting of design;
 - Further investigation of any identified anomalies (A2s) or previously recorded sites that have not been seen in the geophysical data (A3) that cannot be avoided by micro-siting of design (see section 1.9.6);
 - Further examination of potential prehistoric deposits including geoarchaeological recording of core samples, deposit modelling and archaeological input into any future sampling programme(s) (see section 1.9.5);
 - In the event of impact to potential sites, the establishment of a formal protocol to ensure that any finds are promptly reported, archaeological advice is obtained, and any recovered material is stabilised, recorded and conserved (see section 1.10);
 - Watching briefs where seabed material is brought to the surface, for example during pre-lay grapnel runs (see section 1.9.7);
 - Watching briefs for any intrusive works carried out in the intertidal landfall zone;
 and
 - The archaeological assessment of any further geophysical data (see section 1.9.3).

1.7.2 Additional Mitigation

27.28. Additional mitigation may be required where anomalies or AEZs cannot be avoided or where unexpected discoveries are encountered and reported through the protocol. This may include measures to further investigate the nature and extent of anomalies and/or discoveries, to establish the archaeological interest and to record them prior to removal. The methodology for such works would be set out in works package specific method statements and agreed with the MMO in consultation with Historic England (or the relevant Planning Authority in consultation with the Norfolk County Council (NCC) Historic Environment Service for works above MLWS) prior to works commencing.





1.8 Roles, Responsibilities and Communication

- 28.29. Overall responsibility for the implementation of the final Offshore WSI will lie with Norfolk Vanguard Limited who will ensure that its agents and contractors are contractually bound to adhere to the terms of the final Offshore WSI and to implement the protocol for archaeological discoveries (section 1.10).
- 29.30. For each package of archaeological works Norfolk Vanguard Limited or their agents will, as required, procure the services of specialist archaeological contractors with the requisite experience and expertise to undertake the necessary works. In addition, Norfolk Vanguard Limited will retain the services of a suitably qualified and experienced archaeological contractor (the retained archaeologist) to ensure the effective implementation of the final Offshore WSI and other contractual commitments in relation to archaeology.

30.31. The responsibilities of a retained archaeologist include:

- Compiling, reviewing and updating this outline Offshore WSI following consultation with Norfolk Vanguard Limited and the regulators (MMO) and curators (Historic England) post-consent to produce a final, agreed Offshore WSI;
- Advising Norfolk Vanguard Limited on their responsibilities regarding the implementation of the final Offshore WSI and the Protocol for Archaeological Discoveries;
- Compiling, agreeing and issuing method statements for archaeological contractors to adhere to, following consultation with Norfolk Vanguard Limited and the regulators and curators;
- Advising Norfolk Vanguard Limited on the necessary interaction with the regulators, curators and other third parties;
- Procuring, monitoring the work of, and liaising with specialist archaeological contractors;
- Monitoring the preparation and submission of archaeological reports as appropriate and making them available to the regulators and curators for review and approval; and
- Advising Norfolk Vanguard Limited on any final requirements and arrangements for further analysis, archive deposition, publication and popular dissemination.

31.32. All agents and contractors engaged by Norfolk Vanguard Limited will:

• Familiarise themselves with the requirements of the final Offshore WSI and make it available to their staff, explaining the requirements and need for strict adherence;





- Familiarise themselves with the protocol for archaeological discoveries (section 1.10) and ensure the implementation of and adherence to the protocol by staff, including ensuring staff awareness of the protocol and making staff available for training through toolbox talks, as necessary;
- Assist and afford access to archaeological contractors as advised by Norfolk Vanguard Limited and the retained archaeologist; and
- Inform the retained archaeologist and the archaeological contractors of any environmental or health and safety constraints of which they may be aware that is relevant to the archaeologist's activities on site.
- 32.33. The specific responsibilities of specialist archaeological contractors during subsequent phases of work will be set out in separate task/work package specific method statements.
- 33.34. The regulatory body responsible for enforcing conditions specified in the DML is the MMO. The regulatory body responsible for enforcing the implementation of requirements within the DCO is the relevant Planning Authority in which the works are situated.
- 34.35. The MMO's statutory advisor on the marine historic environment and the archaeological curators for heritage matters offshore (below MHWS) is Historic England. The archaeological curators responsible for heritage matters onshore (above MLWS) are the archaeological advisors from the NCC Historic Environment Service and Historic England's Inspector of Ancient Monuments.
- 35.36. Prior to and during the course of any geoarchaeological recording, assessment and analysis, consultation with the Historic England Regional Science Advisor for the East of England is also recommended to agree on the suitability of the approach.

1.9 Written Scheme of Investigation

36.37. As stated in Section 1.4 the methodologies presented below draw upon the Model Clauses for WSI (The Crown Estate, 2010). In order to avoid repetition, only key statements from the Model Clauses are paraphrased below. However, it is an essential requirement of this outline Offshore WSI that all approaches presented in this document adhere to the methodologies presented in full in the Model Clauses as appropriate and relevant to Norfolk Vanguard. Any adaptations and amendments to these standard approaches will require agreement with the MMO in consultation with Historic England.

1.9.1 Archaeological Recording, Reporting, Data Management and Archiving

37.38. With regard to survey reports, each package of works will be accompanied by written reports pursuant to the requirements of those works and demonstrating





- appropriate planning, recording and data management and archiving and public dissemination of results as appropriate.
- 38.39. For all aspects of recording, reporting, data management and archiving, Norfolk Vanguard Limited will adhere to standards and guidance as set out in the Model Clauses document. Key points relevant to archaeological recording, reporting, data management and archiving are outlined below.
- 39.40. Once agreed, the methodology for each package of works will be set out in a method statement prepared under the requirements of the final Offshore WSI, and appended to it. Each method statement (work specific WSI) will be agreed with the relevant archaeological curator prior to works commencing.
- 40.41. Each archaeological report will satisfy the method statement for the investigation and will present the project information in sufficient detail to allow interpretation without recourse to the project archive. Reports will typically include:
 - A non-technical summary;
 - The aims and methods of the work;
 - The results of the work including finds and environmental remains;
 - A statement of the potential of the results;
 - Proposals for further analysis and publication (if appropriate); and
 - Illustrations and appendices to support the report.
- 41.42. Each archaeological report will be submitted in draft to the retained archaeologist for submission to Norfolk Vanguard Limited If the report is prepared by the retained archaeologist it will be submitted directly to Norfolk Vanguard Limited.
- 42.43. Decisions regarding the scope of post-fieldwork assessment will be made by agreement between Norfolk Vanguard Limited and the archaeological curators following submission of investigation reports and based on the possible importance of the results in terms of their contribution to archaeological knowledge, understanding or methodological development.
- 43.44. The assessment phase may include (but is not limited to) the following elements:
 - The conservation of appropriate materials, including the X-raying of metalwork;
 - The spot-dating of all pottery from any investigation. This will be corroborated by the scanning of other categories of material;
 - The preparation of site matrices with supporting lists of contexts by type, by spot-dated phase, and by structural grouping supported by appropriate scaled plans;





- An assessment statement will be prepared for each category of material, including reference to quantity, provenance, range and variety, condition and existence of other primary sources; and
- A statement of potential for each material category and for the data set as a
 whole will be prepared, including specific questions that can be answered and
 the potential value of the data to local, regional and national investigation
 priorities.
- 44.45. On the basis of post-fieldwork assessment, and as agreed by the relevant archaeological curators, mitigation requirements will be satisfied by carrying out analysis and reporting of the post-fieldwork assessment. If appropriate, this may include publication of important results in a recognised peer-reviewed journal or as a monograph.
- 45.46. On completion of archaeological works relating to construction of the scheme, an overarching report on the archaeology of the scheme will be prepared and submitted to the MMO and Historic England to a timetable to be agreed with Norfolk Vanguard Limited, the regulator and the archaeological curators. The overarching report need not repeat the details contained in each preceding report, but should serve as an index to, and summary of, the archaeological investigations as a whole.
- 46.47. It is accepted practice to keep project archives, including written, drawn, photographic and artefactual elements (together with a summary of the contents of the archive) together wherever possible and to deposit them in appropriate receiving institutions once their contents are in the public domain. Archives will be developed in line with guidance including:
 - Standard and guidance for the creation, compilation, transfer and deposition of archaeological archives (CIfA, 2014b);
 - Environmental Guidelines for the Permanent Storage of Excavated Material from Archaeological Sites (Institute of Conservation, 1984); and
 - Guidelines for the preparation of excavation archives for long-term storage, (Walker, 1990).
- 47.48. The relevant archaeological curators and the archaeological contractor will agree with the receiving institution a policy for the selection, retention and disposal of excavated material, and confirm requirements in respect of the format, presentation and packaging of archive records and materials, and will notify the receiving institution in advance of any fieldwork.
- 48.49. In England, the NRHE is the repository for fieldwork records. The NRHE operates a policy for the selection of records relating to sites of national importance. Norfolk





Vanguard Limited or their agents will produce an OASIS form for any completed and agreed archaeological reports produced as a result of the final Offshore WSI and ensure that a copy is submitted as a PDF file to the NRHE.

1.9.2 Archaeological Samples and Artefacts

- 49.50. Environmental samples, obtained during pre-construction geotechnical surveys, that are suitable for archaeological and palaeoenvironmental assessment, will be subject to geoarchaeological assessment (see section 1.9.5 below).
- 50.51. Any finds encountered during activities associated with Norfolk Vanguard will be treated in accordance with the relevant guidance provided in the Model Clauses (The Crown Estate 2010) and:
 - Standards and guidance for the collection, documentation, conservation and research of archaeological materials (CIfA, 2014c); and
 - First Aid for Underwater Finds (Robinson, 1998).
- 51.52. General specifications set out in the Model Clauses are summarised below.
- 52.53. Isolated discoveries of artefacts that may come to light during the course of the development will be dealt with through the Protocol for Archaeological Discoveries (see section 1.10 below).
- 53.54. With regard to archaeological works from the point of discovery, all finds will be held by the archaeological contractor in appropriate conditions pending further recording, investigation, study or conservation.
- 54.55. Recovered objects will be selected, retained or disposed of in accordance with the policy agreed with the institution receiving the archive, and in consultation with the archaeological contractors.
- <u>55.56.</u> Contingency will be made for specialist advice and conservation needs on-site should unexpected, unusual or extremely fragile and delicate objects be recovered.
- 56.57. In the event that any item(s) of ordnance is discovered it should be treated with extreme care as it may not be inert. Guidelines on addressing Unexploded Ordnance (UXO) discoveries provided to contractors by Norfolk Vanguard Limited must be followed prior to any recording of items for archaeological purposes.
- 57.58. If human remains are discovered, the process set out in DCO must be followed, alternatively an application for a licence from the Ministry of Justice under Section 25 of the Burials Act 1857 will be made by the Archaeological Contractor(s) (DCO Part 4 Requirement 17). The works will also take place in accordance with the appropriate Environmental Health regulations. With regard to the remains of





crashed aircraft, the majority of aircraft wrecks are military and so fall under the legal protection of the Protection of Military Remains Act 1986. Other specific and bespoke requirements may also be required, on a case-by-case / area-by-area basis.

- 58.59. All archaeological artefacts that have come from a ship are wreck for the purposes of the Merchant Shipping Act 1995. Norfolk Vanguard Limited, via their archaeological contractors, will ensure that the Receiver of Wreck is notified within 28 days of recovery, by Norfolk Vanguard Limited or their agents, for all items of wreck that have been recovered.
- 59.60. All recovered materials, on land and underwater, will be subject to a conservation assessment to gauge whether special measures are required while the material is being held. This conservation assessment will be carried out by the retained archaeologist or an archaeological contractor with an appropriate level of expertise, with advice from appropriate specialists. The retained archaeologist (where appointed) or an archaeological contractor with appropriate expertise will implement recommendations arising from the conservation assessment. Where no special measures are recommended, finds will be conserved, bagged, boxed and stored in accordance with industry guidelines.

1.9.3 Archaeological Exclusion Zones

- 60.61. The principal objective of an AEZ is to prevent damage to or disturbance of a wreck, aircraft or features on the seafloor during activities that may cause direct impacts to a receptor.
- 61.62. The implementation, monitoring and modification of AEZs will take place in accordance with the measures specified in the Model Clauses.
- 62.63. AEZs preclude development activities from taking place within their boundaries, thereby avoiding significant impacts to assets contained within. The position, extent and design of an AEZ should take into account all available information including geology, hydrology and sediment transport and should extend around the boundaries of the asset rather than around a centre-point within the site. In addition, an AEZ will incorporate a buffer in order to ensure that all material associated with that asset is encapsulated within its boundary, as well as to reduce the risk of unintentional impacts.
- 63.64. As part of the embedded mitigation for Norfolk Vanguard, the size and position of AEZs agreed between Norfolk Vanguard Limited and Historic England will inform the design of the wind farm and export cable route. The size and position of AEZs are currently proposed as





- 50m around the extents of known wreck sites and debris/debris fields (A1s) as seen in the geophysical data; and
- 50m around the point location of magnetic only anomalies (A1s) with no corresponding surface expression.
- 64.65. AEZs have not been proposed for the A2 anomalies and the two A3 historic records. Additional work will be required to further investigate the nature and extent of anomalies, to establish the archaeological interest and to record them prior to removal, if they cannot be avoided through micro-siting of design (see section 1.9.6).
- 65.66. AEZs can be reduced, enlarged or removed in agreement with the MMO in consultation with Historic England if further relevant information becomes available. Unless modified by agreement, it is important that AEZs are retained throughout the project lifetime and monitoring of AEZs may be required by the regulator and curator to ensure adherence both during construction and in the future operation of the wind farm (see section 1.11).
- 66.67. Norfolk Vanguard Limited will ensure that details of the AEZs are supplied to all agents and contractors and will retain responsibility for ensuing adherence to the AEZs throughout the project lifespan (pre-construction, construction, operation and decommissioning).
- 67.68. There are 33 AEZs within the Norfolk Vanguard red line boundary. Nine of the total of 42 A1 anomalies relate to items of debris located within the AEZs already recommended for A1 wrecks. These are listed in Table 7 and illustrated in Figures 17.8 to 17.16 in Volume 2 of the ES.

Table 7 Recommended AEZs and avoidance for A1 anomalies

| WA ID | Type Position | | | Recommendation | Area |
|-------|---------------|---------|---------|---------------------------|---------|
| | | Easting | Northin | | |
| | | | g | | |
| 70021 | Wreck | 496438 | 5859769 | 50m around extents | NV East |
| 70058 | Magnetic | 494268 | 5856763 | 50m around point location | |
| 70255 | Wreck | 496393 | 5847836 | 50m around extents | |
| 70262 | Wreck | 498353 | 5847680 | 50m around extents | |
| 71480 | Wreck | 503572 | 5848770 | 50m around extents | |
| 71297 | Magnetic | 470549 | 5875951 | 50m around point location | NV West |
| 71299 | Magnetic | 471001 | 5874207 | 50m around point location | |
| 71301 | Debris field | 470711 | 5873567 | 50m around extents | |
| 71314 | Magnetic | 471077 | 5871919 | 50m around point location | |
| 71323 | Magnetic | 471157 | 5871003 | 50m around point location | |
| 71325 | Magnetic | 470932 | 5870985 | 50m around point location | 1 |
| 71332 | Debris | 470686 | 5870865 | Covered by AEZ for 71334 | 1 |
| 71333 | Debris | 470763 | 5870863 | Covered by AEZ for 71334 | |





| WA ID | Туре | Position | | Recommendation | Area |
|-------|--------------|----------|---------|---------------------------|----------------|
| | | Easting | Northin | | |
| | | | g | | |
| 71334 | Wreck | 470730 | 5870846 | 50m around extents | |
| 71336 | Debris | 470736 | 5870812 | Covered by AEZ for 71334 | |
| 71479 | Magnetic | 464147 | 5851155 | 50m around point location | |
| 70342 | Wreck | 477521 | 5849048 | 50m around extents | Offshore cable |
| 70360 | Wreck | 466386 | 5846784 | 50m around extents | corridor |
| 70459 | Wreck | 446041 | 5844450 | 50m around extents | |
| 70460 | Debris | 446039 | 5844401 | Covered by AEZ for 70459 | |
| 70565 | Wreck | 431217 | 5841986 | 50m around extents | |
| 70615 | Magnetic | 429652 | 5846468 | 50m around point location | |
| 70617 | Wreck | 429617 | 5846348 | 50m around extents | |
| 70618 | Debris | 429562 | 5846957 | 50m around point location | |
| 70639 | Wreck | 428802 | 5847632 | 50m around extents | |
| 70640 | Debris | 428758 | 5847714 | Covered by AEZ for 70639 | |
| 70645 | Wreck | 428283 | 5848091 | 50m around extents | |
| 70659 | Wreck | 426967 | 5850445 | 50m around extents | |
| 70704 | Wreck | 422267 | 5849082 | 50m around extents | |
| 70709 | Wreck | 421671 | 5849182 | 50m around extents | |
| 70744 | Wreck | 419288 | 5849507 | 50m around extents | |
| 70784 | Debris | 415366 | 5849564 | 50m around point location | |
| 70785 | Debris field | 415354 | 5849572 | 50m around extents | |
| 70809 | Wreck | 413550 | 5850143 | 50m around extents | |
| 70810 | Debris field | 413518 | 5850156 | Covered by AEZ for 70809 | |
| 70832 | Debris | 412148 | 5850351 | Covered by AEZ for 70834 | |
| 70833 | Debris | 412143 | 5850353 | Covered by AEZ for 70834 | |
| 70834 | Wreck | 412105 | 5850354 | 50m around extents | |
| 70934 | Wreck | 406929 | 5852021 | 50m around extents | |
| 70954 | Wreck | 406125 | 5853694 | 50m around extents | |
| 70958 | Debris field | 406085 | 5852987 | Covered by AEZ for 70962 | |
| 70962 | Wreck | 406058 | 5852977 | 50m around extents | |

1.9.4 Marine Geophysical Investigations

- 68.69. The following geophysical data (sidescan sonar, multibeam bathymetry, magnetometer and sub-bottom profiler data) was archaeologically assessed by Wessex Archaeology to inform the offshore archaeology baseline assessed as part of the EIA (Appendix 17.1 to the ES):
 - Geophysical survey acquired for the project by Fugro Survey B. V. (Fugro) between September and November 2016 over NV West and the offshore cable corridor; and





- Geophysical survey data previously acquired over NV East by EMU Limited (EMU) and over the eastern end of the offshore cable corridor by Coastline Surveys Ltd in 2012.
- 69.70. The archaeological assessment of any further geophysical data acquired for the project forms part of the commitment by Norfolk Vanguard Limited to embedded mitigation (see section 1.7.1).
- 70.71. Prior to the acquisition of further survey data during the pre-construction phase it is recommended that a data review is undertaken by a suitability qualified and experienced archaeological contractor in order to qualify the continued suitability of the existing data and assessment to the project. This will include the identification of any data gaps and any further regiments to inform the acquisition of further geophysical data in the light of new information which may come to light before the start of the pre-construction phase.
- 71.72. The overarching objectives of the assessment of marine geophysical survey data are to:
 - Identify known heritage assets and provide additional detail on the nature and extent of those assets;
 - Identify previously unidentified seabed features;
 - Identify buried palaeolandscape features that help to clarify the nature of the submerged prehistoric landscape; and
 - Monitor the construction and post-construction effects of Norfolk Vanguard.
- 72.73. As part of the data review, the archaeological contractor should identify specific objectives to inform the scope of further survey work. The acquisition and assessment of geophysical data will be carried out in accordance with good practice as set out in the Model Clauses and in industry guidelines including:
 - Plets R., Dix J. and Bates R. (2013) Marine Geophysical Data Acquisition,
 Processing and Interpretation guidance notes. Guidance prepared for Historic England.
- 73.74. Historic England will be consulted on the scope of all further geophysical surveys undertaken for the project in order to ensure that the data generated are sufficiently robust to meet these archaeological objectives and to enable professional archaeological interpretation and analysis.
- 74.75. Data will be processed, assessed and interpreted by a suitably experienced and qualified archaeological contractor and integrated with the existing assessments as outlined in section 1.5). Data will be provided in raw format to allow the data to be processed by the archaeological contractor using appropriate software in order to





facilitate archaeological assessment and interpretation. Vessel trackplots and factual reporting will also be made available to the archaeological contractor.

- 75.76. If required, a method statement will be issued by Norfolk Vanguard Limited in advance of any further geophysical survey campaigns that incorporate archaeological objectives, as advised by the retained archaeologist and/or archaeological contractor. The method statement will set out the specific details of the campaign and the methodology for archaeological assessment in order to inform consultation with Historic England. Archaeological briefings for survey staff will be carried out prior to the commencement of surveys and Norfolk Vanguard Limited will be responsible for ensuring that surveys proceed in accordance with any planned method statement as agreed with the MMO in consultation with Historic England.
- 76.77. The results of further geophysical interpretation will be compiled as an archaeological report consistent with the Model Clauses on reporting and will form part of the project archive (see section 1.9.1).

1.9.5 Marine Geoarchaeological Investigations

- 77.78. Geotechnical data comprising 65 vibrocores acquired by Fugro in 2016 was geoarchaeology assessed by Wessex Archaeology to inform the seabed prehistory baseline for the ES. To date, three stages of assessment have been undertaken:
 - Stage 1: Geoarchaeological review of preliminary core logs (Appendix 17.2 to the ES);
 - Stage 2: Geoarchaeological description and interpretation (Appendix 17.3 to the ES); and
 - Stage 3: Sub-sampling and palaeoenvironmental assessment (Appendix 17.4 to the ES).
- 78.79. As for the geophysical survey data, prior to the acquisition of further geotechnical data during the pre-construction phase it is recommended that a data review is undertaken by a suitability qualified and experienced archaeological contractor. As part of the review the archaeological contractor will identify any data gaps and any specific archaeological objectives to inform the acquisition of geotechnical data.

 Objectives should take account of the specific research objectives identified through previous geoarchaeological assessment undertaken for the ES.
- 79.80. The primary aim of any geoarchaeological investigations will be the further development of a Quaternary (sedimentary) deposit model for the study area which will both inform and be expanded by subsequent phases of work. An outline deposit model has been prepared as part of the geoarchaeological assessment undertaken to date (see section 1.5.1).





- 80.81. Historic England will be consulted on the scope of all further geotechnical surveys and all geotechnical investigations and subsequent geoarchaeological assessment commissioned by Norfolk Vanguard Limited will be undertaken in accordance with the Model Clauses (The Crown Estate, 2010) and with industry good practice as set out in:
 - Offshore Geotechnical Investigations and Historic Environment Analysis:
 Guidance for the Renewable Energy Sector (Gribble and Leather, 2011);
 - Environmental Archaeology: A Guide to the theory and practice of methods, from sampling and recovery to post-excavation (Historic England, 2011); and
 - Geoarchaeology: using earth sciences to understand the archaeological record (Historic England 2007).
- 81.82. In planning geotechnical surveys, which may be undertaken primarily to meet engineering/design objectives, in order to incorporate archaeological objectives, general provisions should include:
 - Micro-siting of borehole/vibrocore locations to avoid recommended AEZs and anomalies of possible archaeological interest, as set out in section 1.9.3;
 - Comparison of the proposed locations to the positions of previously identified paleogeographic features and deposits of archaeological interest and consideration given to micro-siting the proposed locations to ensure that opportunities to obtain samples to inform archaeological interpretation are not missed; and
 - Consideration given to the acquisition of a second 'archaeology only' cores at specific locations, if required, following advice from the retained archaeologist, the geoarchaeological contractor and in consultation with the Historic England.
- <u>82.83.</u> During all geotechnical surveys, all operatives should observe the Protocol for Archaeological Discoveries, as set out in Section 1.10.
- 83.84. Norfolk Vanguard Limited will procure the services of a specialist geoarchaeological contractor to undertake assessment, and, if required, palaeoenvironmental analysis and dating. Geoarchaeological assessment will also be carried out in accordance with existing interpretations of sub-bottom profiler data assessed for Norfolk Vanguard. Any further sub-bottom profiler data acquired for the project will be assessed by a suitably qualified and experienced archaeological contractor for integration with the results of the geotechnical surveys and any subsequent geoarchaeological assessment.
- 84.85. Prior to the commencement of any site investigation campaign a method statement will be issued by Norfolk Vanguard Limited setting out the specific details of the campaign once the geoarchaeological requirements and locations have been





established in order to inform consultation with Historic England. Archaeological briefings for survey staff will be carried out prior to the commencement of surveys and Norfolk Vanguard Limited will be responsible for ensuring that surveys proceed in accordance with any planned method statement agreed with the MMO in consultation with Historic England.

85.86. The results of further marine geoarchaeological assessment will be compiled as an archaeological report consistent with the Model Clauses on reporting and will form part of the project archive (see section 1.9.1).

1.9.6 Archaeological Investigations Using Divers and/or ROVs

- 86.87. The principal objective of diver/ROV investigation will be to further establish the archaeological interest of previously unidentified seabed features seen in the geophysical data in order to inform the strategy of avoidance through revisions to the scheme design.
- 87.88. It is possible that certainty of the nature and extent of individual anomalies (A2s) may only be achieved through the use of drop down cameras or diver/ROV survey. Ground truthing may also be required in order to clarify the extent of a site in order to alter (enlarge, reduce, move or remove) AEZs (1.9.3).
- 88.89. All ground truthing that may be required to inform the construction of Norfolk Vanguard will be carried out in accordance with good practice as set out in the Model Clauses.
- 89.90. Diver or ROV-based investigations will take place as required and, where the primary objectives are archaeological, operations will be led by archaeologists. However, it may also be possible to combine such surveys with non-archaeological objectives, for identification of UXO for example.
- 90.91. In order to maximise the potential benefits of any proposed diver or ROV surveys, Norfolk Vanguard Limited will seek archaeological input at the planning stage of any such works. Any such survey specification will be informed by previous stages of the project, including the Norfolk Vanguard ES and assessment of geophysical data so that archaeological considerations can be taken into account. Following the completion of a diver/ROV survey, all data, including video footage, will be reviewed by an archaeological contractor with appropriate expertise.
- 91.92. A detailed method statement for any archaeological works will be agreed in advance of works commencing with the MMO in consultation with Historic England.





92.93. The results of diver/ROV assessment will be compiled as an archaeological report consistent with the Model Clauses on reporting and will form part of the project archive (see section 1.9.1).

1.9.7 Archaeological Watching Brief

- 93.94. Due to the use of long HDD to install cables at the landfall, watching briefs within the intertidal area will not be required.
- 94.95. In the event that activities are planned which may result in archaeological material being brought to the surface, through clearance operations and pre-lay grapnel runs, for example, on board supervision by a suitably qualified and experienced archaeologist may be required.
- 95.96. The approach to any archaeological watching brief which may be required will be agreed with the MMO in consultation with Historic England. If areas subject to clearance are considered of medium or high archaeological importance, on board monitoring may be considered necessary to ensure appropriate consideration of archaeological material brought to the surface. In areas of low archaeological importance any material brought to the surface will be dealt with through the Protocol for Archaeological Discoveries (see section 1.10).
- 96.97. If required, the methodology for onboard watching briefs and/or monitoring will be set out in a method statement to be agreed in advance of works commencing with the MMO in consultation with Historic England and in accordance with the Model Clauses.

1.10 Archaeological Recording Protocol

- 97.98. In order to account for unexpected discoveries of archaeological material during construction, operation and decommissioning a formal protocol will be required. It is recommended that if any objects of possible archaeological interest are encountered, that they should be reported using the established Protocol for Archaeological Discoveries: Offshore Renewables Projects (The Crown Estate, 2014) (ORPAD). This will establish whether the objects are of archaeological interest and recommend appropriate mitigation measures where necessary.
- 98.99. Activities during which previously unidentified sites or unexpected discoveries of material may be encountered include:
 - Pre-construction surveys, for example:
 - Anomalies on the seabed identified by geophysical contractors;
 - Obstructions on the seabed encountered during geotechnical surveys or grab sampling;





- archaeological material within cores or grab samples; and
- Seabed features identified during diver or ROV surveys.
- Seabed clearance, pre-lay grapnel runs (e.g. finds brought to the surface);
- Vessel anchoring (e.g. anchor caught on obstruction);
- Installation of the export cables (e.g. obstruction interactions with plough); and
- Installation of wind turbine foundations (e.g. obstruction interactions with jackup legs).
- 99.100. ORPAD came into effect in December 2010 and applies to pre-construction, construction and installation activities in developing offshore renewable energy schemes where an archaeologist is not present on site. The protocol allows for the effective reporting of discoveries of archaeological material in order to ensure that advice, concerning measures to address discoveries, is received, and implemented, in a timely and efficient manner.
- 100.101. Each vessel or worksite team has a Site Champion, a single person who is responsible for reporting discoveries to a Nominated Contact within the Developer's core team. The Nominated Contact uploads discoveries onto a secure web portal and the Implementation Service is alerted to the presence of new discoveries. The Crown Estate provides for the reporting and assessment of discoveries through the ORPAD Implementation Service, currently maintained by Wessex Archaeology.
- 101.102. Individual Site Champions for specific activities will be specified in work package method statements and the identity of the Site Champion will be clearly communicated to work teams, via pre-commencement briefings for example.
- 102.103. Norfolk Vanguard Limited will be responsible for ensuring that teams are provided with appropriate training in the application of ORPAD and that all staff and contractors are aware of their responsibilities under the protocol. The ORPAD documentation, including a full description of the methodology and requirements for implementing the protocol, can be found via the following web link:
 - http://www.thecrownestate.co.uk/media/148964/ei-protocol-forarchaeological-discoveries-offshore-renewables-projects.pdf
- Training to construction staff, site crews and work teams with regard to the practical application of the protocol in their day to day work can be provided by the Implementation Service or by an alternative sufficiently experienced and qualified archaeological contractor. Hard copies of the ORPAD document will be made available for use on board the construction vessels.
- 104.105. Provision will be made by Norfolk Vanguard Limited, in accordance with ORPAD, for the prompt reporting/recording to Historic England of archaeological





remains encountered or suspected during works. If the find is a wreck within the meaning of the Merchant Shipping Act (1996) then a report will also be made to the Receiver of Wreck. If the find is treasure within the meaning of the Treasure Act (1996) then a report will also be made to the Coroner.

presenting the results of the ORPAD implementation during activities and submitted to the MMO within four months. In the event that no discoveries are made, a nil discoveries report should be compiled in order to demonstrate adherence to the scheme.

1.11 Monitoring

<u>106.107.</u> Monitoring requirements are anticipated to comprise:

- Monitoring of the final Offshore WSI by the retained archaeologist in order to ensure that the scheme of investigation is appropriate to the scheme design;
- Monitoring of archaeological works by the archaeological curators, including monitoring of the effectiveness of AEZs; and
- Monitoring during and post construction, including a conservation programme for finds (see section 1.9.2).
- The performance of the final Offshore WSI will be monitored during the course of the pre-construction phase and the contents of the final Offshore WSI will be reviewed and updated as necessary prior to construction in order to inform a construction phase document specific to the final design. Provision will also be made for the final Offshore WSI to be revised as appropriate should elements of the project change or particular archaeological issues come to light. Any revisions will be prepared by the retained archaeologist and submitted by Norfolk Vanguard Limited, or their agents to the MMO for approval in consultation with Historic England.
- disseminated to MMO and Historic England by Norfolk Vanguard Limited, or their agents, so that the results can be reviewed and any concerns addressed. All survey reports undertaken for the purposes of archaeological evaluation will be submitted to the MMO and Historic England within a specified timescale of the survey being completed to be agreed with the regulator.
- 109.110. Historic England and the MMO will be notified in advance by Norfolk Vanguard Limited or their agents of the commencement of work timetables and the commencement of any work on site that may have an impact on archaeology, and will be informed at this time of the name and contact details for the retained archaeologist. During any site evaluation/investigation or construction work that has





the potential to impact archaeological remains the retained archaeologist may liaise directly with Historic England with regard to site monitoring and reporting only after prior reference to Norfolk Vanguard Limited. Norfolk Vanguard Limited will be kept informed of all contact between the retained archaeologist and the archaeological curators.

will be prepared by Norfolk Vanguard Limited, or by the retained archaeologist on behalf of Norfolk Vanguard Limited, to review whether there have been any incursions into each zone and whether there are still archaeological grounds for maintaining each zone. The frequency of such reports will be agreed with the MMO in consultation with Historic England, but may include reports at the conclusion of key construction phases and a post-construction monitoring report, including an archaeological assessment of post-construction geophysical survey data. If it becomes apparent that activities have encroached upon an AEZ, Norfolk Vanguard Limited will seek advice from the retained archaeologist.

assessment of post-construction geophysical survey data relative to the baseline data will also assess the effects of any indirect impacts that may have occurred to heritage assets as a result of the wind farm construction. Based on the results of the initial post-construction review, any further requirements during the operation phase will be agreed in consultation with Historic England. Further monitoring may only be necessary if significant changes to coastal and/or offshore processes are identified or if new information relevant to the integrity of archaeologically important items comes to light.

1.12 References

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APPENDIX 1: GAZETTEER OF PALAEOLANDSCAPE FEATURES

| WA ID | Classification | Archaeological Discrimination | Description | Age |
|---------|------------------------|-------------------------------|--|----------------------------|
| NV East | | | | |
| 75000 | Infilled Depression | P2 | Broad, approximately NNW-SSE trending, unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by sub-parallel internal reflectors. Feature acoustically blanked (probably by shallow gas) along its western edge so exact extent unknown, although it is likely to be part of feature 75003. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 4.1m - 31.9m BSB. | lpswichian or Devensian |
| 75001 | Acoustic Blanking | P2 | Small area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Only identified on one survey line. Depth Range: 11.6m - 11.7m BSB. | Devensian |
| 75002 | Acoustic Blanking | P2 | Extensive, approximately NNW-SSE trending area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 3.5m - 26.3m BSB. | Devensian |
| 75003 | Infilled Depression | P2 | Broad, approximately NNW-SSE trending, unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by sub-parallel internal reflectors. Feature acoustically blanked (probably by shallow gas) along its eastern edge so exact extent unknown, although it is likely to be part of feature 75000. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 7.5m - 26.8m BSB. | Ipswichian or Devensian |
| 75004 | Acoustic Blanking | P2 | Extensive, approximately NNW-SSE trending area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 3.5m - 26.3m BSB. | Devensian |
| 75005 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 6.7m - 7.9m BSB. | Devensian |
| 75006 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 7.8m - 12.3m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|--------------------------------|----------------------------------|--|----------------------------|
| 75007 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 7.1m - 10.1m BSB. | Devensian |
| 75008 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Only identified on one survey line. Depth Range: 8.9m - 9.7m BSB. | Devensian |
| 75009 | Infilled Depression | P2 | Broad unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by poorly defined sub-parallel internal reflectors. Possible second phase of acoustically unstructured fill in some areas, though this is unclear. Unit is acoustically blanked (probably by gas) along its eastern edge, and so extent is unknown. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 8.6m - 25.5m BSB. | lpswichian or Devensian |
| 75010 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Depth Range: 7.6m - 11.7m BSB. | Devensian |
| 75011 | Infilled Depression | P2 | Broad, approximately NNW-SSE trending, unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by poorly defined sub-parallel internal reflectors. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 6.8m - 18.0m BSB. | lpswichian or Devensian |
| 75012 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Only identified on a single survey line. Depth Range: 10.3m - 11.1m BSB. | Devensian |
| 75013 | Acoustic Blanking | P2 | Area of acoustic blanking within BNB Formation (Unit 5), probably caused by shallow gas and indicative of organic material within the sediment. Only identified on a single survey line. Depth Range: 9.8m - 11.0m BSB. | Devensian |
| 75014 | High Amplitude Reflector | P1 | Area of intermittent high amplitude reflectors, possibly within YM Formation (Unit 2) although this is unclear. Possibly indicative of preserved organic material. Depth Range: 13.7m - 19.0m BSB. | Pre-Anglian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|---------|-----------------------------|-------------------------------|---|-------------------------------------|
| 75015 | Infilled Depression | P2 | Broad unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by poorly defined sub-parallel internal reflectors. Possible second phase of acoustically unstructured fill in some areas, though this is unclear. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 6.2m - 38.9m BSB. | lpswichian or Devensian |
| 75016 | Infilled Depression | P2 | Unit below the base of BNB Formation (Unit 5), appears to be the fill of a topographically controlled depression. Characterised by a single phase of fill characterised by numerous sub-parallel internal reflectors. Unit not definitely known, but could be EE or an early deposit of BNB (Unit 4). Depth Range: 5.7m - 10.7m BSB. | Ipswichian or Devensian |
| 75017 | Infilled Depression | P2 | Unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by poorly defined sub-parallel internal reflectors. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Present within both NV East and the ECR. Depth Range: 6.1m - 13.6m BSB. | lpswichian or Devensian |
| NV West | | | | |
| 75018 | High Amplitude Reflector | P1 | Extensive, relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is occasionally cut/disrupted by cut and fill features, particularly channel 75021. Peat recovered from vibrocore VC088 suggest this represents a buried land surface (Unit 7). Depth Range: 0.8 - 5.8m BSB. | Holocene (Pre- Transgression) |
| 75019 | Simple Cut and Fill | P2 | Small, relatively poorly defined possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of fill, with relative strong basal reflector. Possible remains of a fluvial feature associated with the same surface as high amplitude reflector 75018 (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth Range: 2.0 - 3.1m BSB. | Holocene (Pre- Transgression) |
| 75020 | Simple Cut and Fill | P2 | Small, relatively poorly defined possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of fill, with poorly defined basal reflector. Possible remains of a fluvial feature associated with the same surface as high amplitude reflector 75018 (Unit 7), although could be an internal reflector. Depth range: 4.0 - 7.0m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75021 | Channel | P1 | Relatively small but distinct channel feature cut into the BNB Formation (Unit 5), identified on a number of survey lines. Relatively poorly defined basal reflector, with a single phase of acoustically chaotic fill. Possible fluvial feature, possibly associated with channel 75025 and the same surface as high amplitude reflectors 75018, 75023 and 75022 (Unit 7). Depth Range: 1.5 - 6.5m BSB. | Holocene (Pre- Transgression) |
| 75022 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is cut/disrupted by channel 75021. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 2.1 - 4.2m BSB. | Holocene (Pre- Transgression) |
| 75023 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is cut/disrupted by channel 75021. Peat recovered from vibrocore VC085 suggest this represents a buried land surface (Unit 7). Depth Range: 1.6 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75024 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is cut/disrupted by channel 75025. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 0.8 - 3.0m BSB. | Holocene (Pre- Transgression) |
| 75025 | Channel | P1 | Relatively small but distinct channel feature cut into the BNB Formation (Unit 5), identified on a number of survey lines. Relatively poorly defined basal reflector, with a single phase of acoustically chaotic fill. Possible fluvial feature, possibly associated with channel 75021 and the same surface as high amplitude reflector 75024 (Unit 7). Depth Range: 1.6 - 6.7m BSB. | Holocene (Pre- Transgression) |
| 75026 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line, but probably related to similar feature 75028. Feature is cut/disrupted by cut and fill feature 75027. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 2.4 - 3.8m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|--|-------------------------------------|
| 75027 | Simple Cut and Fill | P2 | Small, relatively poorly defined possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of fill, with relative strong basal reflector. Possible remains of a fluvial feature associated with the same surface as high amplitude reflectors 75028 and 75026 (Unit 7), although could be an internal reflector. Identified on two survey lines. Depth Range: 1.6 - 5.4m BSB. | Holocene (Pre- Transgression) |
| 75028 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is cut/disrupted by cut and fill feature 75027. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.6 - 5.4m BSB. | Holocene (Pre- Transgression) |
| 75029 | High Amplitude Reflector | P1 | Extensive, relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on numerous survey lines. Feature is intermittent in places, but closely spaced anomalies have been grouped together. Feature is occasionally cut/disrupted by cut and fills, particularly channels 75035 and 75038. Peat recovered from vibrocores VC075, VC076, and VC080, plus roots recovered from vibrocore VC081, suggest this represents a buried land surface (Unit 7). Depth Range: 0.6 - 10.5m BSB. | Holocene (Pre- Transgression) |
| 75030 | Simple Cut and Fill | P2 | Small, possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of layered fill, with a well defined basal reflector. Possible remains of a fluvial feature associated with the same surface as high amplitude reflector 75029 (Unit 7), although could be an internal reflector. Depth range: 2.5 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75031 | Simple Cut and Fill | P2 | Small, possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of layered fill, with a well defined basal reflector. Possible remains of a fluvial feature, possibly associated with the same surface as high amplitude reflector 75029 (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth range: 3.6 - 4.8m BSB. | Holocene (Pre- Transgression) |
| 75032 | Simple Cut and Fill | P2 | Possible cut and fill feature cut into BNB Formation (Unit 5). Relatively poorly defined basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial feature, possibly associated with the same surface as high amplitude reflector 75029 (Unit 7), although could be an internal feature. Depth Range: 3.2 - 7.9m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75033 | Simple Cut and Fill | P2 | Distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with a single phase of acoustically structured fill. Possible remnants of a fluvial channel, possibly relating to the same surface as high amplitude reflector 75029 (Unit 7). Depth Range: 1.6 - 5.2m BSB. | Holocene (Pre- Transgression) |
| 75034 | Simple Cut and Fill | P2 | Distinct cut and fill feature cut into BNB Formation (Unit 5). Distinct basal reflector with a single phase of acoustically structured fill. Possible remnants of a fluvial channel, possibly relating to the same surface as high amplitude reflector 75029 (Unit 7). Depth Range: 1.5 - 8.4m BSB. | Holocene (Pre- Transgression) |
| 75035 | Channel | P1 | Distinct channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Poorly defined basal reflector with a single phases of acoustically layered fill. Possible fluvial feature, possibly associated with the same surface as high amplitude reflector 75029 (Unit 7). Depth Range: 2.4 - 13.0m BSB. | Holocene (Pre- Transgression) |
| 75036 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Feature is cut/disrupted by channel 75035. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.3 - 6.4m BSB. | Holocene (Pre- Transgression) |
| 75037 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.3 - 4.5m BSB. | Holocene (Pre- Transgression) |
| 75038 | Channel | P1 | Distinct channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Poorly defined basal reflector with a single phases of acoustically layered fill. Possible fluvial feature, possibly associated with the same surface as high amplitude reflectors 75029 and 75039 (Unit 7). Depth Range: 1.3 - 7.7m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|---|-------------------------------------|
| 75039 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Feature is cut/disrupted by channel 75038. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 4.2m BSB. | Holocene (Pre- Transgression) |
| 75040 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 2.7m BSB. | Holocene (Pre- Transgression) |
| 75041 | Simple Cut and Fill | P2 | Distinct cut and fill feature cut into BNB Formation (Unit 5). Distinct basal reflector with a single phase of acoustically structured fill. Possible remnants of a fluvial channel, possibly relating to the same surface as high amplitude reflector 75029 (Unit 7). Depth Range: 4.7 - 8.7m BSB. | Holocene (Pre- Transgression) |
| 75042 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Feature is cut/disrupted by cut and fill 75043. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 3.3 - 4.2m BSB. | Holocene (Pre- Transgression) |
| 75043 | Simple Cut and Fill | P2 | Possible cut and fill feature cut into BNB Formation (Unit 5). Relatively poorly defined basal reflector with single phase of unstructured fill. Possible remnants of a fluvial feature, possibly associated with the same surface as high amplitude reflector 75029 (Unit 7), although could be an internal reflector. Depth Range: 4.2 - 6.6m BSB. | Holocene (Pre- Transgression) |
| 75044 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.8 - 4.2m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|--|-------------------------------------|
| 75045 | Channel | P1 | Possible channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Relatively poorly defined basal reflector, with a single phase of acoustically layered fill. Possible buried fluvial feature (Unit 7). Depth Range: 1.6 - 9.0m BSB. | Holocene (Pre- Transgression) |
| 75046 | Simple Cut and Fill | P2 | Small, possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of layered fill, with a well defined basal reflector. Possible remains of a fluvial feature (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth range: 1.4 - 3.4m BSB. | Holocene (Pre- Transgression) |
| 75047 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.0 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75048 | Simple Cut and Fill | P2 | Small, possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of layered fill, with a well defined basal reflector. Possible remains of a fluvial feature (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth range: 2.4 - 4.6m BSB. | Holocene (Pre- Transgression) |
| 75049 | Simple Cut and Fill | P2 | Small, possible cut and fill feature cut into BNB Formation (Unit 5). Single phase of layered fill, with a well defined basal reflector. Possible remains of a fluvial feature (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth range: 1.4 - 2.8m BSB. | Holocene (Pre- Transgression) |
| 75050 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.4 - 2.3m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|--|-------------------------------------|
| 75051 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.1 - 3.9m BSB. | Holocene (Pre- Transgression) |
| 75052 | Acoustic Blanking | P2 | Irregular area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth Range: 2.3 - 4.8m BSB. | Holocene (Pre- Transgression) |
| 75053 | Simple Cut and Fill | P2 | Possible poorly defined cut and fill feature cut into BNB Formation (Unit 5). Poorly defined basal reflector with single phase of acoustically transparent fill. Possible remnant fluvial feature, possibly associated with the same surface as high amplitude reflector 75054 (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth Range: 2.9 - 4.6m BSB. | Holocene (Pre- Transgression) |
| 75054 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Feature is cut/disrupted by cut and fill 75053. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.5 - 4.2m BSB. | Holocene (Pre- Transgression) |
| 75055 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by possible poorly developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 3.3 - 9.3m BSB. | Devensian |
| 75056 | Acoustic Blanking | P2 | Area of acoustic blanking within the lower layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material. Identified on more than one survey line. Depth Range: 9.9 - 12.4m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|---|-------------------------------------|
| 75057 | Acoustic Blanking | P2 | Small area of acoustic blanking within the lower layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material. Only identified on one survey line. Depth Range: 11.2 - 11.9m BSB. | Devensian |
| 75058 | Simple Cut and Fill | P2 | Relatively poorly defined cut and fill feature cut into BNB Formation (Unit 5), identified on more than one survey line. Intermittent basal reflector with a single phase of acoustically unstructured fill. Possible remnants of a fluvial system, possibly related to the same surface as high amplitude reflector 75029 (Unit 7). Depth Range: 2.4 - 6.3m BSB. | Holocene (Pre- Transgression) |
| 75059 | Simple Cut and Fill | P2 | Possible poorly defined cut and fill feature cut into BNB Formation (Unit 5). Poorly defined basal reflector with single phase of acoustically transparent fill. Possible remnant fluvial feature, possibly associated with the same surface as high amplitude reflector 75029 (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth Range: 3.6 -6.8m BSB. | Holocene (Pre- Transgression) |
| 75060 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Feature is cut/disrupted by channel 75061. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.2 - 5.6m BSB. | Holocene (Pre- Transgression) |
| 75061 | Channel | P1 | Small but distinct channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Generally well defined basal reflector with a single phases of acoustically transparent fill. Possible buried fluvial feature, possibly associated with the same surface as high amplitude reflector 75060 (Unit 7). Depth Range: 1.3 - 4.4m BSB. | Holocene (Pre- Transgression) |
| 75062 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth Range: 2.2 - 2.8m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75063 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 2.6m BSB. | Holocene (Pre- Transgression) |
| 75064 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth Range: 2.0 - 2.9m BSB. | Devensian |
| 75065 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on a number of survey lines. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth Range: 1.6 - 3.2m BSB. | Devensian |
| 75066 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth Range: 2.0 - 2.5m BSB. | Devensian |
| 75067 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.4 - 2.5m BSB. | Holocene (Pre- Transgression) |
| 75068 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.2 - 1.9m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75069 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth Range: 1.2 - 1.4m BSB. | Devensian |
| 75070 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 1.7m BSB. | Holocene (Pre- Transgression) |
| 75071 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 0.9m BSB. | Holocene (Pre- Transgression) |
| 75072 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.9m BSB. | Holocene (Pre- Transgression) |
| 75073 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.3 - 2.8m BSB. | Holocene (Pre- Transgression) |
| 75074 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth Range: 3.6 - 4.1m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|--|-------------------------------------|
| 75075 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.0 - 3.6m BSB. | Holocene (Pre- Transgression) |
| 75076 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on more than one survey line. Feature is cut/disrupted by cut and fill feature 75077. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.6 - 5.4m BSB. | Holocene (Pre- Transgression) |
| 75077 | Channel | P1 | Distinct channel feature cut into BNB Formation (Unit 5), identified on more than one survey line. Poorly defined basal reflector with a single phase of acoustically layered fill. Possible fluvial feature, possibly associated with the same surface as high amplitude reflectors 75076 and 75078 (Unit 7). Depth Range: 2.0 - 8.8m BSB. | Holocene (Pre- Transgression) |
| 75078 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on more than one survey line. Feature is cut/disrupted by cut and fill feature 75077. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.3 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75079 | Simple Cut and Fill | P2 | Distinct cut and fill feature cut into BNB Formation (Unit 5). Distinct basal reflector with a single phase of acoustically structured fill. Possible remnants of a fluvial channe (Unit 7), although only identified on one survey line. Depth Range: 2.0 - 6.5m BSB. | Holocene (Pre- Transgression) |
| 75080 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.2 - 4.6m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|---|-------------------------------------|
| 75081 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by possible poorly developed dune features, suggesting a significant time of exposure. Possible buried land surface (Unit 7). Depth Range: 2.7 - 5.0m BSB. | Devensian |
| 75082 | High Amplitude Reflector | P1 | Relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)), identified on a number of survey lines. Peat recovered from within similar features suggest this represents a buried land surface (Unit 7). Depth Range: 1.5 - 3.3m BSB. | Holocene (Pre- Transgression) |
| 75083 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 2.5m BSB. | Holocene (Pre- Transgression) |
| 75084 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line, and located at the edge of the area. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.3 - 2.0m BSB. | Holocene (Pre- Transgression) |
| 75085 | Simple Cut and Fill | P2 | Small but distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial system (Unit 7). Depth Range: 2.6 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75086 | Simple Cut and Fill | P2 | Small but distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial system (Unit 7). Depth Range: 2.0 - 4.8m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|---|-------------------------------------|
| 75087 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line, and reflector extends over the top of cut and fill features 75085 and 75087. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.0 - 3.3m BSB. | Holocene (Pre- Transgression) |
| 75088 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.6 - 3.2m BSB. | Holocene (Pre- Transgression) |
| 75089 | High Amplitude Reflector | P1 | Area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line, and reflector is situated partially on top of channel feature 75092. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 2.8m BSB. | Holocene (Pre- Transgression) |
| 75090 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.6 - 2.5m BSB. | Holocene (Pre- Transgression) |
| 75091 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 0.8 - 1.7m BSB. | Holocene (Pre- Transgression) |
| 75092 | Channel | P1 | Small but distinct channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Generally well defined basal reflector with a single phase of acoustically transparent fill. Possible buried fluvial feature (Unit 7). Depth Range: 1.3 - 4.8m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|---|-------------------------------------|
| 75093 | High Amplitude Reflector | P1 | Area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line, and reflector is situated partially on top of channel feature 75092. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.7 - 3.2m BSB. | Holocene (Pre- Transgression) |
| 75094 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line, but is close to the edge of channel 75092. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.0 - 1.2m BSB. | Holocene (Pre- Transgression) |
| 75095 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.2 - 2.3m BSB. | Holocene (Pre- Transgression) |
| 75096 | Simple Cut and Fill | P2 | Small but distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial system (Unit 7). Depth Range: 1.7 - 4.4m BSB. | Holocene (Pre- Transgression) |
| 75097 | Simple Cut and Fill | P2 | Possible poorly defined cut and fill feature cut into BNB Formation (Unit 5). Poorly defined basal reflector with single phase of acoustically transparent fill. Possible remnant fluvial feature (Unit 7), although could be an internal reflector. Only identified on one survey line. Depth Range: 1.8 - 4.8m BSB. | Holocene (Pre- Transgression) |
| 75098 | Simple Cut and Fill | P2 | Small but distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial system (Unit 7), although could be an internal BNB feature. Depth Range: 1.4 - 7.2m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|------------------------|----------------------------------|---|-------------------------------------|
| 75099 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by large, well-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 3.0 - 7.9m BSB. | Devensian |
| 75100 | Acoustic Blanking | P2 | Long, but relatively narrow, area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on a number of survey lines. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer or erosion surface. Appears to be associated with channels 75103 and 66046. Depth Range: 1.5 - 4.9m BSB. | Devensian |
| 75101 | Simple Cut and Fill | P2 | Possible poorly defined cut and fill feature cut into BNB Formation (Unit 5). Poorly defined basal reflector with single phase of acoustically transparent fill. Possible remnant fluvial feature (Unit 7), although could be an internal reflector. Depth Range: 1.7 -4.2m BSB. | Holocene (Pre- Transgression) |
| 75102 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature, cut through the BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Only identified on one survey line. Possible remnants of a fluvial system (Unit 7). Depth Range: 1.4 - 7.3m BSB. | Holocene (Pre- Transgression) |
| 75103 | Channel | P1 | Poorly defined channel feature (Unit 7) identified on a number of survey lines, cut through BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Depth Range: 1.3 - 6.1m BSB. | Holocene (Pre- Transgression) |
| 75104 | Simple Cut and Fill | P2 | Shallow, possible cut and fill feature cut into BNB Formation (Unit 5), although only identified on one survey line. Strong, well defined basal reflector with single phase of unstructured fill. Possible remnants of an eroded fluvial system (Unit 7), although is located in an area of shallow gas and so may be associated. Depth Range: 0.8 - 3.7m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|-------------------------------|---|-------------------------------------|
| 75105 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.2 - 1.7m BSB. | Holocene (Pre- Transgression) |
| 75106 | High Amplitude Reflector | P1 | Area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on more than one survey line. Feature is cut/disrupted by cut and fills 75107 and 75108, and partially overlaps possible shallow gas 75100. Peat recovered from within similar features suggest it could be an area of buried land surface (Unit 7). Depth Range: 0.5 - 3.4m BSB. | Holocene (Pre- Transgression) |
| 75107 | Simple Cut and Fill | P2 | Shallow, possible cut and fill feature cut into BNB Formation (Unit 5), identified on more than one survey line. Strong, well defined basal reflector with single phase of unstructured fill. Possible remnants of an eroded fluvial system (Unit 7), although is located in an area of shallow gas and so may be associated. Depth Range: 0.8 - 2.6m BSB. | Holocene (Pre- Transgression) |
| 75108 | Simple Cut and Fill | P2 | Shallow, possible cut and fill feature cut into BNB Formation (Unit 5), although only identified on one survey line. Strong, well defined basal reflector with single phase of unstructured fill. Possible remnants of an eroded fluvial system (Unit 7), although is located in an area of shallow gas and so may be associated. Depth Range: 1.2 - 2.7m BSB. | Holocene (Pre- Transgression) |
| 75109 | Simple Cut and Fill | P2 | Small but distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with single phase of acoustically layered fill. Possible remnants of a fluvial system (Unit 7). Depth Range: 1.7 - 4.4m BSB. | Holocene (Pre- Transgression) |
| 75110 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer or erosion surface. Appears to be associated with channel 75112. Only identified on one survey line. Depth Range: 2.7 - 3.2m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75111 | Simple Cut and Fill | P2 | Possible poorly defined cut and fill feature cut into BNB Formation (Unit 5), only identified on one survey lines. Very poorly defined basal reflector with single phase of acoustically transparent fill. Possible remnants of an eroded fluvial system (Unit 7). Depth Range: 2.7 - 5.2m BSB. | Holocene (Pre- Transgression) |
| 75112 | Channel | P1 | Distinct shallow channel feature cut into BNB Formation (Unit 5), identified on a number of survey lines. Well defined basal reflector with a single phase of acoustic unstructured fill, often associated with areas of possible shallow gas within BNB. Possible buried fluvial feature, possibly associated with the same surface as high amplitude reflector 75113 (Unit 7). Depth Range: 1.4 - 5.4m BSB. | Holocene (Pre- Transgression) |
| 75113 | High Amplitude Reflector | P1 | Extensive area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5) (possibly above a thin layer of TN Formation (Unit 6)). Identified on a number of survey lines, the feature follows the course of, overlies, and extends slightly beyond, channel 75112. Peat recovered from within similar features suggest it could be the remnants of a buried land surface (Unit 7). Depth Range: 1.0 - 3.6m BSB. | Holocene (Pre- Transgression) |
| 75114 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer or erosion surface. Appears to be associated with channel 75112 (Unit 7). Depth Range: 2.4 - 3.8m BSB. | Devensian |
| 75115 | Erosion Surface | P1 | Extensive internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by large, well-developed dune features, suggesting a significant time of exposure. Possible buried land surface (Unit 7). Depth Range: 1.3 - 9.2m BSB. | Devensian |
| 75116 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature cut into the BNB Formation (Unit 5), identified on more than one survey line. Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial system (Unit 7). Depth Range: 2.1 - 8.8m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|------------------------|-------------------------------|---|-------------------------------------|
| 75117 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature cut into the BNB Formation (Unit 5), but only identified on one survey line. Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial system (Unit 7). Depth Range: 1.6 - 6.0m BSB. | Holocene (Pre- Transgression) |
| 75118 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature cut into the BNB Formation (Unit 5), identified on more than one survey line. Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial system (Unit 7). Depth Range: 2.2 - 4.7m BSB. | Holocene (Pre- Transgression) |
| 75119 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature cut into the BNB Formation (Unit 5), but only identified on one survey line. Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial system (Unit 7). Depth Range: 1.9 - 5.4m BSB. | Holocene (Pre- Transgression) |
| 75120 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature identified on a number of survey lines, cut through BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial feature (Unit 7). Depth Range: 1.4 - 9.5m BSB. | Holocene (Pre- Transgression) |
| 75121 | simple Cut and Fill | P2 | Poorly defined cut and fill feature only identified on one survey line, cut through BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possible remnants of an eroded fluvial feature (Unit 7). Depth Range: 2.5 - 6.9m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|------------------------|-------------------------------|--|-------------------------------------|
| 75122 | Channel | P1 | Poorly defined channel feature identified on a number of survey lines, cut through BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possibly related to nearby cut and fill 75123 (Unit 7). Depth Range: 1.6 - 7.3m BSB. | Holocene (Pre- Transgression) |
| 75123 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature identified on more than one survey line, cut through BNB Formation (Unit 5) and into the underlying YM Formation (Unit 2). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the internal BNB structure and YM/BNB boundary reflector. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined. Possibly related to nearby channel 75122 (Unit 7). Depth Range: 1.4 - 7.3m BSB. | Holocene (Pre- Transgression) |
| 75124 | Simple Cut and Fill | P2 | Distinct cut and fill feature cut into BNB Formation (Unit 5), but only identified on one survey line. Distinct basal reflector with a single phase of acoustically layered fill. Possible remnants of a fluvial channel (Unit 7), possibly relating to features 75122 and 75123, although appears slightly higher in the stratigraphy and is different in character, so may be a later phase feature. Depth Range: 0.6 - 3.9m BSB. | Holocene (Pre- Transgression) |
| 75125 | Channel | P1 | Relatively poorly defined channel feature identified on a number of survey lines, cut into BNB Formation (Unit 5). Very poorly defined basal reflector, but with a relatively strong internal structure characterised by layered reflectors. Possible remains of a fluvial system (Unit 7). Depth Range: 1.6 - 5.8m BSB. | Holocene (Pre- Transgression) |
| 75126 | Simple Cut and Fill | P2 | Poorly defined cut and fill feature only identified on one survey line, cut into BNB Formation (Unit 5). Poorly defined basal reflector, with a single phase of acoustically transparent fill. Possible remnants of an eroded fluvial feature (Unit 7). Depth Range: 2.0 - 4.3m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|----------------|-------------------------------|-------------------------------|---|-------------------------------------|
| 75127 | Coarse Sediment Deposit | P2 | Isolated, possible small coarse sediment deposit at the base of BNB Formation (Unit 5), identified on one survey line only. Possible bank deposit or transgression feature. Depth Range: 5.0 - 6.2m BSB. | lpswichian or Devensian |
| Offshore Cable | e Corridor | | | |
| 75128 | Infilled Depression | P2 | Broad, approximately NNW-SSE trending, unit below the base of BNB Formation (Unit 5), appears to be the fill of a large topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by sub-parallel internal reflectors. Feature appears to extend eastwards into NV East but feature not identified during data interpretation of this area, probably due to differences in data quality. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 7.6m - 12.6m BSB. | Ipswichian or Devensian |
| 75129 | Infilled Depression | P2 | Approximately WNW-ESE trending unit below the base of BNB Formation (Unit 5), appears to be the fill of a topographically controlled depression. Relatively low relief basal reflector with single phase of fill characterised by sub-parallel internal reflectors. Feature appears to extend eastwards into NV East but feature not identified during data interpretation of this area, probably due to differences in data quality. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Depth Range: 7.5m - 26.8m BSB. | Ipswichian or Devensian |
| 75130 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth range: 2.3 - 2.8m BSB. | Devensian |
| 75131 | Channel | P1 | Poorly defined channel feature identified on a number of survey lines cutting into BNB Formation (Unit 5). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined, and apparent blanking of underlying data may indicate the presence of diffuse shallow gas. Feature appears to extend eastwards into NV East but feature not identified during data interpretation of this area, probably due to differences in data quality. Depth Range: 1.1 - 3.9m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|------------------------|-------------------------------|--|-------------------------------------|
| 75132 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth range: 1.7 - 2.4m BSB. | Devensian |
| 75133 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth range: 2.0 - 2.3m BSB. | Devensian |
| 75134 | Acoustic Blanking | P2 | Small area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Only identified on one survey line. Depth range: 2.1 - 2.9m BSB. | Devensian |
| 75135 | Simple Cut and Fill | P2 | Small, simple cut and fill identified beneath a veneer of Holocene sediment, cut into the top of the BNB Formation (Unit 5). Single phase of fill characterised by closely spaced, subparallel horizons, indicating well layered sediment. Some slight blanking of lower horizons. Feature only identified on one line. Depth range: 1.2 - 6.4m BSB. | Holocene (Pre- Transgression) |
| 75136 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on more than one survey line. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth range: 1.6 - 3.9m BSB. | Devensian |
| 75137 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on more than one survey line. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth range: 2.1 - 3.6m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|---|-------------------------------------|
| 75138 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on more than one survey line. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth range: 2.1 - 3.5m BSB. | Devensian |
| 75139 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5), identified on more than one survey line. Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth range: 1.1 - 6.6m BSB. | Devensian |
| 75140 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5), identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.1 - 3.4m BSB. | Holocene (Pre- Transgression) |
| 75141 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.1 - 3.1m BSB. | Holocene (Pre- Transgression) |
| 75142 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5), identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.9 - 4.5m BSB. | Holocene (Pre- Transgression) |
| 75143 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5), identified on more than one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 3.1 - 5.0m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|---|-------------------------------------|
| 75144 | Channel | P1 | Poorly defined channel feature identified on a number of survey lines cutting into BNB Formation (Unit 5). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined, and apparent blanking of underlying data may indicate the presence of diffuse shallow gas. Depth Range: 0.3 - 7.0m BSB. | Holocene (Pre- Transgression) |
| 75145 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.5 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75146 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 2.0 - 3.4m BSB. | Holocene (Pre- Transgression) |
| 75147 | High Amplitude Reflector | P1 | Small area of a relatively flat, high amplitude reflector at the top of the BNB Formation (Unit 5). Only identified on one survey line. Peat recovered from within similar features suggest it could be an isolated area of buried land surface (Unit 7). Depth Range: 1.3 - 5.2m BSB. | Holocene (Pre- Transgression) |
| 75148 | Simple Cut and Fill | P2 | Possible simple cut and fill feature identified cutting into the BNB Formation (Unit 5), beneath possible Holocene sediment. Only identified on one survey line. Single phase of acoustically chaotic fill, suggesting well mixed channel fill. Basal reflector very poorly defined. Depth range: 1.0 - 2.6m BSB. | Holocene (Pre- Transgression) |
| 75149 | Simple Cut and Fill | P2 | Possible simple cut and fill feature identified cutting into the BNB Formation (Unit 5), beneath possible Holocene sediment. Only identified on one survey line. Single phase of acoustically chaotic fill, suggesting well mixed channel fill. Basal reflector very poorly defined. Depth range: 1.2 - 3.8m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|------------------------|-------------------------------|---|-------------------------------------|
| 75150 | Channel | P1 | Poorly defined channel feature identified on a number of survey lines cutting into BNB Formation (Unit 5). Very poorly defined basal reflector, and feature is mainly delineated by disruption to the BNB structure. Possible single phase of fill comprising very faint internal reflectors, although the structure cannot be definitively determined, and apparent blanking of underlying data may indicate the presence of diffuse shallow gas. Depth Range: 1.8 - 5.1m BSB. | Holocene (Pre- Transgression) |
| 75151 | Simple Cut and Fill | P2 | Possible simple cut and fill feature identified cutting into the BNB Formation (Unit 5), beneath possible Holocene sediment. Only identified on one survey line. Single phase of acoustically chaotic fill, suggesting well mixed channel fill. Basal reflector very poorly defined. Depth range: 1.2 - 3.8m BSB. | Holocene (Pre- Transgression) |
| 75152 | Infilled Depression | P2 | Localised unit below the base of BNB Formation (Unit 5), appears to be the fill of a topographically controlled depression. Relatively low relief basal reflector with single phase of acoustically chaotic fill. Unit not definitely known, but possibly EE or an earlier BNB unit (Unit 4). Data from vibrocore VC116 suggests the unit comprises dense sand. Depth Range: 5.1m - 10.3m BSB. | Ipswichian or Devensian |
| 75153 | Channel | P1 | Possible channel feature identified cutting into the top of BNB (or possible EE) and YM Formation (Unit 2). Feature has a poorly defined basal reflector and closely spaced, subparallel internal reflectors indicated well layered sediment. Possible remnant fluvial feature. Identified on a number of survey lines. Depth range 1.4 - 10.6m BSB. | Holocene (Pre- Transgression) |
| 75154 | Acoustic Blanking | P2 | Area of acoustic blanking within the upper layers of BNB Formation (Unit 5). Possible accumulation of shallow gas, indicating preserved organic material, although could be a localised gravelly layer. Depth Range: 1.1 - 1.9m BSB. | Devensian |
| 75155 | Simple Cut and Fill | P2 | Possible, poorly defined cut and fill feature identified cutting into BNB Formation (Unit 5), possibly with more than one phase of fill. Fill is characterised by parallel internal reflectors, with some possible blanking of lower horizon. Basal reflector not particularly distinct. Depth range: 1.3 - 7.7 m BSB. | Holocene (Pre- Transgression) |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-----------------------------|----------------------------------|--|-------------------------------------|
| 75156 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by relatively poorly-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 4.3 - 11.0m BSB. | Devensian |
| 75157 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by relatively poorly-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 4.6 - 9.9m BSB. | Devensian |
| 75158 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by relatively poorly-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 7.4 - 12.8m BSB. | Devensian |
| 75159 | Simple Cut and Fill | P2 | Possible simple cut and fill feature cut into BNB Formation (Unit 5), identified on more than one survey line. Base of feature not particularly distinct, possibly an internal reflector within the possible BNB or EE Formation (Unit 4) or could be the remnants of an eroded fluvial feature. Depth range: 0.5 - 6.9 m BSB. | Holocene (Pre- Transgression) |
| 75160 | High Amplitude Reflector | P1 | High amplitude reflector identified within well layered sediments of interpreted BNB. Some possible blanking of lower horizons. Feature identified on one line. Could indicate shallow gas or a layer of organic material. Depth range: 4.9 - 6.1 m BSB. | Devensian |
| 75161 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by relatively well-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 5.3 - 17.6m BSB. | Devensian |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-------------------------|----------------------------------|--|-------------------------------------|
| 75162 | Erosion Surface | P1 | Internal erosion surface within the BNB Formation (Unit 5), identified on more than one survey line. Overlain by relatively well-developed dune features, suggesting a significant time of exposure. Possible buried land surface. Depth Range: 9.4 - 16.1m BSB. | Devensian |
| 75163 | Simple Cut and Fill | P2 | Cut and fill feature identified cutting into top of the BNB Formation (Unit 5). Feature has a distinct, high amplitude base and possible blanking of lower horizons. Feature identified on one line. Possible remnants of an eroded fluvial feature. Depth range: 0.6 - 2.9 m BSB. | Holocene (Pre- Transgression) |
| 75164 | Simple Cut and Fill | P2 | Possible cut and fill feature identified cutting into possible EE formation (Unit 4). Poorly defined basal reflector with indistinct fill, and only identified on one line, possible continuation of 75165 however this isn't clear. Depth range: 1.0 - 4.2m BSB. | Post- Ipswichian |
| 75165 | Simple Cut and Fill | P2 | Possible cut and fill feature identified cutting into possible EE formation (Unit 4). Poorly defined basal reflector with indistinct fill, and only identified on one line, possible continuation of 75164 however this isn't clear. Depth range: 1.0 - 9.4m BSB. | Post- Ipswichian |
| 75166 | Simple Cut and Fill | P2 | Possible small simple cut and fill feature cut into possible WK Formation (Unit 1). Poorly defined basal reflector with indistinct fill, and only identified on one line. Could be an internal reflector. Depth range: 1.0 - 5.8 m BSB. | Unknown |
| 75167 | Complex Cut and Fill | P2 | Possible indistinct complex cut and fill feature cutting into the top of the possible WK Formation (Unit 1). Only identified on one line, possible continuation of 75168 however this isn't clear. Depth range: 0.7 - 4.7 m BSB. | Unknown |





| WA ID | Classification | Archaeological Discrimination | Description | Age |
|-------|-------------------------|-------------------------------|---|---------|
| 75168 | Complex Cut and Fill | P2 | Possible indistinct complex cut and fill feature cutting into the top of the possible WK Formation (Unit 1). Only identified on one line, possible continuation of 75167 however this isn't clear. Depth range: 0.3 - 3.2 m BSB. | Unknown |
| 75169 | Simple Cut and Fill | P2 | Possible small simple cut and fill feature cutting into possible WK Formation (Unit 1). Feature is poorly defined and only identified on one line. Depth range: 0.6 - 2.0 m BSB. | Unknown |
| 75170 | Acoustic Blanking | P2 | Indistinct reflector identified in upper unit beneath seabed, possibly WK Formation (Unit 1). Feature not particularly distinct, but some possible blanking/disturbance to lower horizons indicating possible shallow gas accumulation or a localised gravel deposit. Feature only identified on one line. Depth range 1.8 - 3.3 m BSB. | Unknown |





APPENDIX 2: GAZETTEER OF SEABED FEATURES

| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|---------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| NV East | | | | | | | | | | |
| 70000 | Magnetic | 503394 | 5861745 | A2 | - | - | - | 547 | Large asymmetrical dipolar anomaly, no recorded wrecks or obstructions and possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70001 | Dark reflector | 504907 | 5861509 | A2 | 0.8 | 0.5 | 0.1 | - | Approximately oval shaped anomaly with a slight L-shape to it, appears partially buried. | |
| 70002 | Magnetic | 504689 | 5861472 | A2 | - | - | - | 20 | Distinct dipolar anomaly on ridge of sandwave, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70003 | Dark reflector | 504173 | 5861185 | A2 | 3.4 | 1.3 | 0 | - | Four oval shaped intermittent anomalies, possibly partially buried object. | |
| 70004 | Magnetic | 503394 | 5861153 | A2 | - | - | - | 11 | Small but distinct dipolar anomaly in an area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70005 | Magnetic | 502797 | 5861124 | A2 | - | - | - | 11 | Negative monopolar anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70006 | Magnetic | 502673 | 5861066 | A2 | - | - | - | 8 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70007 | Magnetic | 499082 | 5861061 | A2 | - | - | - | 8 | Dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70008 | Magnetic | 502893 | 5860998 | A2 | - | - | - | 123 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70009 | Dark reflector | 500616 | 5860788 | A2 | 7.9 | 5.4 | 0.3 | - | Bathymetric anomaly of a possible mound located in an area of sand ripples with a diamond shaped anomaly measuring 3.1m x 2.7m x 0.7m with scour, possibly piece of debris. | |
| 70010 | Dark reflector | 500160 | 5860738 | A2 | 2.5 | 1.7 | 0.2 | - | Almost triangular shaped anomaly with weak tiny circular anomaly nearby, possibly debris. | |
| 70011 | Magnetic | 499005 | 5860571 | A2 | - | - | - | 17 | Asymmetrical dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70012 | Magnetic | 498786 | 5860491 | A2 | | - | | 23 | Two anomalies approximatey 25m apart and possibly associated. Stronger is a dipole of 23nT with the weaker a small dipole anomaly of 8nT, in an area of noise. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70013 | Magnetic | 503479 | 5860359 | A2 | - | - | - | 10 | Narrow peaked monopolar positive anomaly but in an area of larger broad anomalies possibly natural in origin. | |
| 70014 | Dark reflector | 496046 | 5860324 | A2 | 5.6 | 0.4 | 0 | - | Thick linear anomaly, possibly partially buried, faint scour trailing off one end. | |
| 70015 | Magnetic | 503289 | 5860278 | A2 | - | - | - | 5 | Distinct small dipolar anomaly in area of broad dipolar anomalies, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70016 | Magnetic | 499999 | 5860245 | A2 | - | - | - | 14 | Narrow peaked positive monopolar anomaly, stronger than other anomalies in area that are possibly natural, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70017 | Debris | 501768 | 5860169 | A2 | 10.4 | 3.9 | 0.7 | - | Possible rounded mound located in an area of sand ripples with associated scour on its north-west side visible in the bathymetry data. Complex irregular looking anomaly and weakly contrasting but with a prominent pointed oval shaped shadow with scour. Possibly piece of debris lying on seabed. | |
| 70018 | Magnetic | 503474 | 5860142 | A2 | - | - | - | 5 | Distinct but weak asymmetrical dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70019 | Magnetic | 496390 | 5859947 | A2 | - | - | - | 111 | Distinct asymmetric medium dipole anomaly on single line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70020 | Rope/chain | 498804 | 5859831 | A2 | 18 | 0.7 | 0.1 | - | Narrow curvilinear anomaly possibly rope or chain. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70021 | Wreck | 496438 | 5859769 | A1 | 21.5 | 9.7 | 0.6 | 62 | Elongated oval shaped area containing several linear crossing dark reflectors showing degrading structure of a wreck partially buried in sediment with two further pieces of debris lying nearby approximately 5.5m x 0.5m and 2m x 0.5m in size. The pieces of debris are both within 10m of the main wreck site. Associated is a very distinct medium sized asymmetric dipole anomaly of 62nT and just to south and possibly associated is a second magnetic small and wide dipole of 19nT suggesting the presence of ferrous material. The wreck is located at the edge of a sandwave in an area of sand ripples. | |
| 70022 | Magnetic | 497097 | 5859655 | A2 | - | - | - | 7 | Small negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70023 | Magnetic | 505096 | 5859429 | A2 | - | - | - | 40 | Distinct asymmetrical dipolar anomaly, possible piece of ferrous, but located on crest of a sandwave, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70024 | Seafloor disturbance | 498418 | 5859302 | A2 | 26 | 3.7 | 0.1 | 19 | Elongated oval shaped area in sand ripples containing at least four short crescent-shaped dark reflectors, possibly partially buried objects. Associated are two magnetic anomalies possibly indicating ferrous material within the seafloor disturbance. | |
| 70025 | Dark reflector | 498638 | 5859111 | A2 | 3.3 | 2.3 | 0 | - | Three parallel short linear anomalies, possibly buried debris. | |
| 70026 | Magnetic | 492881 | 5859097 | A2 | - | - | - | 26 | Small sized dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70027 | Magnetic | 502666 | 5858973 | A2 | - | - | - | 20 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. Slightly to the south of cable visible in magnetic and sidescan sonar data. | |
| 70028 | Dark reflector | 492537 | 5858942 | A2 | 10.1 | 0.8 | 0.1 | - | Two anomalies adjacent to each other which appear partially buried and possibly part of the same feature, a short narrow linear with a subrectangular anomaly. | |
| 70029 | Magnetic | 494668 | 5858805 | A2 | - | - | - | 36 | Small sized negative dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70030 | Dark reflector | 497304 | 5858631 | A2 | 2.7 | 1.8 | 0.6 | - | Triangular shaped anomaly in scour mark and appears partially buried. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70031 | Dark reflector | 492935 | 5858549 | A2 | 3.1 | 1.6 | 0.1 | - | Sub-rectangular anomaly with shadow only at one end, possibly a piece of debris. | |
| 70032 | Magnetic | 497868 | 5858486 | A2 | - | - | - | 32 | Distinct small sized dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70033 | Seafloor disturbance | 497923 | 5858432 | A2 | 6.9 | 5.3 | 0 | - | Irregular shaped and complex looking anomaly, possibly debris. | |
| 70034 | Magnetic | 493082 | 5858410 | A2 | - | - | - | 49 | Small asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70035 | Magnetic | 492203 | 5858215 | A2 | - | - | - | 674 | Large asymmetric distinct dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70036 | Dark reflector | 497815 | 5858202 | A2 | 4.2 | 1 | 0.1 | - | Wedge shaped anomaly, possibly partially buried. | |
| 70037 | Dark reflector | 499425 | 5858175 | A2 | 5.1 | 0.3 | 0.1 | - | Narrow linear anomaly, possibly piece of debris. | |
| 70038 | Seafloor disturbance | 494116 | 5858120 | A2 | 3 | 2.9 | 0.5 | - | Approximately circular anomaly, possibly second immediately adjacent but difficult to distinguish, appears partially buried. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70039 | Magnetic | 495993 | 5858052 | A2 | - | - | - | 31 | Small sized positive monopole with weaker asymmetric dipole adjacent, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70040 | Seafloor disturbance | 491024 | 5857988 | A2 | 8.7 | 4.9 | 0.6 | - | Irregular shaped anomaly, mounded area with scour mark, unable to discern any further detail, possibly piece of buried debris. Bathymetry data shows a small depression in an area of sand ripples which corresponds to location of scour, object not visible within it. | |
| 70041 | Dark reflector | 505466 | 5857809 | A2 | 4 | 3.2 | 0.3 | - | Weak approximately rectangular anomaly partially buried in sediment. | |
| 70042 | Seafloor disturbance | 487240 | 5857789 | A2 | 17.9 | 5.7 | 0.7 | - | Strong curvilinear dark reflector, no complex detail suggesting structure seen but large object partially buried in sand ripples. Possibly outline structure of a large object or wreck. In area of mobile sediment and not much more visible. | |
| 70043 | Dark reflector | 490963 | 5857598 | A2 | 2 | 0.5 | 0.3 | - | Short bar shaped anomaly with scour, possibly piece of debris. | |
| 70044 | Dark reflector | 495647 | 5857503 | A2 | 15 | 0.5 | 0 | - | Two anomalies, approximately 15m apart east-west orientation. Smaller is a short narrow linear 5m x 0.5m at edge of range. The larger is an intermittent curvilinear anomaly 11m x 0.5m and possibly length of rope/chain. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70045 | Dark reflector | 495783 | 5857497 | A2 | 35.2 | 0.5 | 0 | - | Three small rectangular anomalies in a linear orientation, possibly all associated and pieces of debris. | |
| 70046 | Magnetic | 487263 | 5857491 | A2 | - | - | - | 24 | Thin and small asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70047 | Debris | 489828 | 5857487 | A2 | 6.9 | 4.9 | 0 | - | Complex looking curvilinear anomaly. | |
| 70048 | Magnetic | 489977 | 5857473 | A2 | - | - | - | 15 | Small but distinct dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70049 | Magnetic | 502862 | 5857341 | A2 | - | - | - | 11 | Distinct small dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70050 | Magnetic | 487263 | 5857272 | A2 | - | - | - | 39 | Narrow and distinct dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70051 | Dark reflector | 498125 | 5857264 | A2 | 15.4 | 0.4 | 0.1 | - | Two small oval shaped anomalies which are possibly opposite ends of single object but buried by sediment in between. | |
| 70052 | Magnetic | 487575 | 5857230 | A2 | - | - | - | 19 | Distinct asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70053 | Dark reflector | 491197 | 5857213 | A2 | 4.1 | 0.7 | 0.2 | - | Short thick linear anomaly with slight curvilinear at one end. Possibly piece of debris. | |
| 70054 | Magnetic | 501273 | 5857103 | A2 | - | - | - | 13 | Narrow positive monopolar anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70055 | Seafloor disturbance | 497740 | 5856926 | A2 | 32.5 | 7 | 0 | - | Irregular shaped area containing a semi-circular dark reflector and several further weak diffuse irregular-shaped dark reflectors. Possibly partially buried or possibly natural. | |
| 70056 | Dark reflector | 505309 | 5856926 | A2 | 9.1 | 0.5 | 0 | - | Short thick linear with weaker curvilinear attached, possibly piece of debris lying on seabed. | |
| 70057 | Magnetic | 495866 | 5856773 | A2 | - | - | - | 62 | Medium distinct asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70058 | Magnetic | 494268 | 5856763 | A1 | - | - | - | 6587 | Very large dipole, possibly wreck anomaly but there is no sidescan sonar or bathymetry anomaly visible at this location and there is not recorded wreck or obstructions at this location. | |
| 70059 | Dark reflector | 492814 | 5856660 | A2 | 7.8 | 2 | 0.1 | - | Irregular shaped anomaly in area of sand ripples, possibly piece of debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70060 | Magnetic | 504055 | 5856657 | A2 | - | - | - | 11 | Positive monopolar anomaly, in an area of broader negative anomalies, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70061 | Dark reflector | 485178 | 5856649 | A2 | 5.4 | 3.1 | 0.8 | - | Oval shaped anomaly with tiny circular dark reflectors scattered around it, straight edged shadow, possibly piece of debris. | |
| 70062 | Magnetic | 488589 | 5856545 | A2 | - | - | - | 34 | Small sized asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70063 | Magnetic | 491867 | 5856487 | A2 | - | - | - | 21 | Irregular shaped dipole anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70064 | Seafloor disturbance | 504729 | 5856405 | A2 | 12.4 | 8.8 | 0 | - | Depression orientated approximately north-south and containing numerous small circular dark reflectors, possibly natural in origin but multibeam bathymetry data indicates it is on top of big sandbank, which means more likely to be anthropogenic. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70065 | Magnetic | 488672 | 5856342 | A2 | - | - | - | 67 | Narrow and distinctive medium dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70066 | Dark reflector | 485119 | 5856280 | A2 | 5.5 | 0.3 | 0.2 | - | Narrow linear anomaly possibly in two pieces and broken up. | |
| 70067 | Magnetic | 502260 | 5856204 | A2 | - | - | - | 28 | Asymmetrical dipolar anomaly, stronger anomaly than other on survey line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70068 | Bright reflector | 487554 | 5856136 | A2 | 4.7 | 3.4 | 0.5 | - | Triangular anomaly, difficult to distinguish dark reflector to identify object causing shadow/bright reflector. Scour marks off either side and possibly a piece of debris. Bathymetry anomaly is a possible rounded mound located in an area of sand ripples with associated scour to the north. | |
| 70069 | Magnetic | 505763 | 5856107 | A2 | - | - | - | 13 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70070 | Magnetic | 505161 | 5856080 | A2 | - | - | - | 23 | Irregular looking dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70071 | Rope/chain | 499023 | 5856038 | A2 | 6.3 | 2.8 | 0 | 10 | L-shaped anomaly, slight scour visible off one end. Negative monopolar anomaly at location suggesting presence of ferrous material. | |
| 70072 | Dark reflector | 496642 | 5855951 | A2 | 8 | 0.4 | 0 | - | Curvilinear anomaly with further small circular anomaly nearby, possibly associated. | |
| 70073 | Dark reflector | 500429 | 5855944 | A2 | 6 | 0.4 | 0 | - | Narrow curvilinear anomaly disappearing into the sediment. | |
| 70074 | Magnetic | 485967 | 5855913 | A2 | - | - | - | 13 | Distinct and narrow dipolar anomaly possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70075 | Dark reflector | 499246 | 5855881 | A2 | 3.5 | 1.1 | 0.3 | - | Circular shaped anomaly with attached narrow linear in a small hollow in the sediment, scour off one side too. Possibly boulders in depressions. | |
| 70076 | Dark reflector | 484924 | 5855802 | A2 | 13.4 | 3.6 | 0.1 | - | Thick diffuse crescent shaped anomaly and two further, smaller, yet more distinct crescent shaped anomalies in discrete area at edge of range, possibly all associated. | |
| 70077 | Magnetic | 487047 | 5855798 | A2 | - | - | - | 30 | Distinct small sized negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| 70079 Recorded Obstruction 485478 5855681 A3 2 1 0.8 - surveyed position of this obstruction is regarded as having an accuracy of 13m. No geophysical anomaly observed in previous zoning assessment or in 2013 data. 70080 Dark reflector 499103 5855643 A2 2.5 0.5 0.1 - Small rectangular anomaly, appears partially buried. 70081 Dark reflector 489787 5855640 A2 5.1 2.7 0.1 - Two linear anomalies lying side by side, one slightly larger at 5.1m in length with the second linear 4.1m and appears more intermittent possibly broken up or buried along parts of its length. 70082 Magnetic 489962 5855407 A2 - - - 18 Small dipole in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry | WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|---|-------|----------------------|---------|----------|-------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| Recorded Obstruction Respectively Survey data Indicates the presence of a very small contact with no associated Respectively Survey doi: Recorded Obstruction Respectively Survey | 70078 | Magnetic | 489268 | 5855761 | A2 | - | - | - | 24 | isolated dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible | |
| 70080 Dark reflector 499103 5855643 AZ 2.5 0.5 0.1 - partially buried. 70081 Dark reflector 489787 5855640 A2 5.1 2.7 0.1 - length with the second linear 4.1m and appears more intermittent possibly broken up or buried along parts of its length. 70082 Magnetic 489962 5855407 A2 - - - 18 Small dipole in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry | 70079 | Recorded Obstruction | 485478 | 5855681 | A3 | 2 | 1 | 0.8 | - | detected in 1994. Survey data indicates the presence of a very small contact with no associated magnetometic anomaly. The surveyed position of this obstruction is regarded as having an accuracy of 13m. No geophysical anomaly observed in previous zoning | 11216 (UKHO) |
| 70081 Dark reflector 489787 5855640 A2 5.1 2.7 0.1 - side, one slightly larger at 5.1m in length with the second linear 4.1m and appears more intermittent possibly broken up or buried along parts of its length. 70082 Magnetic 489962 5855407 A2 - - - 18 Small dipole in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry | 70080 | Dark reflector | 499103 | 5855643 | A2 | 2.5 | 0.5 | 0.1 | - | | |
| 70082 Magnetic 489962 5855407 A2 18 buried ferrous object as there is no sidescan sonar or bathymetry | 70081 | Dark reflector | 489787 | 5855640 | A2 | 5.1 | 2.7 | 0.1 | - | side, one slightly larger at 5.1m in length with the second linear 4.1m and appears more intermittent possibly broken up or buried along parts of its length. | |
| 70083 Dark reflector 491397 5855393 A2 1.1 0.2 0.2 - Short narrow linear. | | | | | | - | - | - | - | buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|-------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70084 | Dark reflector | 491241 | 5855392 | A2 | 6.8 | 1.4 | 0 | - | Two oval shaped anomalies lying side by side, at edge of range and when viewed on adjacent line there is an approximately oval shaped bright reflector which was interpreted as part of a sand ripple. Possible oval shaped area of darker reflection but very weak contrast if it is an object here and it does not resemble anomaly on adjacent survey line. | |
| 70085 | Dark reflector | 488532 | 5855336 | A2 | 12.1 | 5.9 | 0 | - | Weak linear dark reflector at different orientation to direction of sand ripples in area. Further small approximate circular anomalies next to it. Possibly piece of debris partially buried. | |
| 70086 | Rope/chain | 490106 | 5855226 | A2 | 67.3 | 0.5 | 0.2 | - | Intermittent short linear dark reflectors in a linear orientation, possibly exposed length or cable. | |
| 70087 | Magnetic | 493570 | 5855185 | A2 | - | - | - | 21 | Small sized asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70088 | Magnetic | 492176 | 5855153 | A2 | - | - | - | 43 | Asymmetric dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70089 | Magnetic | 496642 | 5855051 | A2 | - | - | - | 37 | Distinct narrow dipolar anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70090 | Magnetic | 490850 | 5855047 | A2 | - | - | - | 35 | Small sized negative monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70091 | Bright reflector | 490130 | 5854931 | A2 | 8.5 | 0.5 | 0 | - | Linear anomaly lying across area of sand ripples. | |
| 70092 | Magnetic | 486060 | 5854895 | A2 | - | - | - | 15 | Asymmetric dipole anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70093 | Magnetic | 484178 | 5854884 | A2 | - | - | - | 20 | Small sized, distinct asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70094 | Dark reflector | 493207 | 5854854 | A2 | 25 | 1 | 0.3 | - | Two dark reflectors space approximately 25m apart and possibly associated through their proximity. The larger is a diffuse subrectangular shaped anomaly 5.1m x 1m with the second a much smaller triangular anomaly 0.7m x 0.6m x 0.3m. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70095 | Magnetic | 505371 | 5854790 | A2 | - | - | - | 5 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70096 | Magnetic | 500251 | 5854775 | A2 | - | - | - | 13 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70097 | Rope/chain | 501824 | 5854746 | A2 | 22 | 0.4 | 0 | - | Intermittent curvilinear dark reflector, possibly length of buried rope or chain. | |
| 70098 | Dark reflector | 492205 | 5854602 | A2 | 4.5 | 1.1 | 0 | - | Narrow rectangular anomaly possibly piece of debris. Quite strong return. | |
| 70099 | Magnetic | 488661 | 5854581 | A2 | - | - | - | 9 | Thin and small positive monopole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70100 | Magnetic | 483855 | 5854536 | A2 | - | - | - | 29 | Asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70101 | Dark reflector | 488771 | 5854515 | A2 | 2.1 | 0.7 | 0.4 | - | Short rectangular anomaly with straight edged shadow and slight scour. | |
| 70102 | Magnetic | 503166 | 5854425 | A2 | - | - | - | 11 | Dipolar but possibly similar anomalies along survey line, in an area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70103 | Dark reflector | 484120 | 5854366 | A2 | 3.7 | 0.7 | 0 | - | Curvilinear anomaly at edge of range, | |
| | | | | · · - | | | - | | in area of sand ripples. | |
| | | | | | | | | | Irregular shaped dipole, possibly | |
| 70104 | Magnetic | 493765 | 5854362 | A2 | - | - | - | 15 | buried ferrous object as there is no | |
| | | | | · - | | | | | sidescan sonar or bathymetry | |
| | | | | | | | | | anomaly visible at this location. | |
| | | | | | | | | | Curvilinear anomaly which splits into | |
| 70105 | Dark reflector | 501126 | 5854334 | A2 | 7 | 1.9 | 0.1 | - | two linears at one end, possibly piece | |
| | | | | | | | | | of debris lying on seabed. | |
| | | | | | | | | | Narrow and distinct asymmetric | |
| | | | | | | | | | dipole, possibly buried ferrous object | |
| 70106 | Magnetic | 489563 | 5854198 | A2 | - | - | - | 33 | as there is no sidescan sonar or | |
| | | | | | | | | | bathymetry anomaly visible at this | |
| | | | | | | | | | location. | |
| | | | | | | | | | Asymmetric dipole in area of noise, | |
| | | | | | | | | | possibly buried ferrous object as | |
| 70107 | Magnetic | 493640 | 5854141 | A2 | - | - | - | 9 | there is no sidescan sonar or | |
| | | | | | | | | | bathymetry anomaly visible at this | |
| | | | | | | | | | location. | |
| 70108 | Dark reflector | 487600 | 5854137 | A2 | 2 | 0.3 | 0.1 | | Discrete cluster of three small oval | |
| 70108 | Dark reflector | 467000 | 3634137 | AZ | 2 | 0.5 | 0.1 | _ | shaped anomalies. | |
| | | | | | | | | | Medium asymmetric dipole, possibly | |
| 70109 | Magnetic | 495444 | 5854110 | A2 | | | | 60 | buried ferrous object as there is no | |
| 70109 | iviagnetic | 493444 | 3634110 | AZ | - | - | - | 60 | sidescan sonar or bathymetry | |
| | | | | | | | | | anomaly visible at this location. | |
| | | | | | | | | | Weak semi-circular shaped anomaly | |
| 70110 | Dark reflector | 407500 | E0E4067 | 4.2 | 11.2 | 2 | 1 | | with second short curvilinear | |
| \0110 | Dark reflector | 487598 | 5854067 | A2 | 11.3 | 3 | 1 | - | adjacent and appearing partially | |
| | | | | | | | | | buried with weak contrast. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70111 | Rope/chain | 505646 | 5854054 | A2 | 81.7 | 0.4 | 0 | 15 | Short narrow intermittent linears in a linear orientation, possibly buried cable or seabed scarring. Magnetic anomaly 50m to south-east of a dipolar anomaly, distinct from the larger broader anomalies in the vicinity possibly suggesting presence of ferrous material. | |
| 70112 | Magnetic | 505252 | 5854031 | A2 | - | - | - | 12 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70113 | Magnetic | 501451 | 5853953 | A2 | - | - | - | 12 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70114 | Magnetic | 485244 | 5853882 | A2 | - | - | - | 16 | Small but distinct dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70115 | Debris field | 501902 | 5853766 | A2 | 18.1 | 16.9 | 0.3 | - | One main area containing numerous circular anomalies with two separate larger curvilinear dark reflectors nearby, possible further debris in between. No obvious structure and appears partially buried. Previously recorded as a seafloor disturbance measuring 46m x 32m x 0.3m so the smaller dimensions recorded here possibly show that it has been further buried in sediment since the area was last surveyed. | |
| 70116 | Debris | 495933 | 5853642 | A2 | 6.8 | 0.5 | 0.1 | - | Linear anomaly partially buried in soft sediment, possibly further curvilinear attached could be piece of isolated debris. | |
| 70117 | Magnetic | 495862 | 5853578 | A2 | - | - | - | 36 | Asymmetric dipole in area of noise, possibly natural or possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70118 | Magnetic | 492245 | 5853570 | A2 | - | - | - | 133 | Distinct dipole anomaly, anomaly across two lines, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70119 | Magnetic | 495758 | 5853504 | A2 | - | - | - | 70 | Medium dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70120 | Rope/chain | 492280 | 5853486 | A2 | 119.1 | 0.3 | 0 | | Small intermittent linear dark reflectors in a linear orientation, possibly buried cable. | |
| 70121 | Dark reflector | 487381 | 5853436 | A2 | 4.7 | 4.5 | 0.1 | - | Triangular shaped anomaly with parallel linear dark reflector along one side, partially buried but there is a possibility that the feature is natural. | |
| 70122 | Magnetic | 505966 | 5853429 | A2 | - | - | - | 67 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70123 | Dark reflector | 501789 | 5853412 | A2 | 5.6 | 2.6 | 0 | - | Two oval shaped anomalies side by side. | |
| 70124 | Dark reflector | 494017 | 5853383 | A2 | 4.2 | 3.8 | 0 | - | Irregular shaped anomaly, breaks up the crest of a sand ripple. | |
| 70125 | Dark reflector | 491980 | 5853369 | A2 | 2.3 | 0.7 | 0.1 | - | Sub-oval shaped anomaly with triangular shadow. | |
| 70126 | Magnetic | 501042 | 5853297 | A2 | - | - | - | 12 | Narrow peaked monopolar anomaly, stronger that similar anomalies along survey line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70127 | Magnetic | 486576 | 5853273 | A2 | - | - | - | 33 | Distinct asymmetric small sized dipole, possibly part of a trend but kept due to its strength or possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70128 | Magnetic | 501448 | 5853207 | A2 | - | - | - | 35 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70129 | Dark reflector | 499800 | 5853197 | A2 | 1.8 | 1.7 | 0.4 | - | Oval shaped anomaly, diffuse in appearance with think narrow linear protruding. | |
| 70130 | Debris | 489326 | 5853090 | A2 | 5.5 | 0.3 | 0.1 | - | Narrow linear anomaly with second separate short linear at one end. | |
| 70131 | Dark reflector | 488985 | 5852970 | A2 | 4 | 0.4 | 0 | - | Narrow, short, slightly curved linear. | |
| 70132 | Dark reflector | 502833 | 5852920 | A2 | 5.1 | 4.1 | 0.8 | - | Partially buried so difficult to see but a linear possibly with second anomaly adjacent whose scour is more prominent. | |
| 70133 | Magnetic | 503572 | 5852838 | A2 | - | - | - | 16 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70134 | Magnetic | 486645 | 5852832 | A2 | - | - | - | 37 | Narrow and distinct dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70135 | Dark reflector | 495005 | 5852802 | A2 | 7 | 3.3 | 0 | - | Curvilinear anomaly, weak and intermittent and appears partially buried, possibly piece of debris. | |
| 70136 | Magnetic | 487560 | 5852795 | A2 | - | - | - | 34 | Narrow and distinct asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70137 | Dark reflector | 493518 | 5852779 | A2 | 10.4 | 2.3 | 0.1 | - | Two anomalies adjacent to each other, possibly associated, possibly debris. Circular anomaly and linear narrow anomaly next to it disappearing into the sediment. | |
| 70138 | Dark reflector | 489316 | 5852761 | A2 | 4.9 | 1 | 0 | - | Thick curvilinear anomaly. | |
| 70139 | Dark reflector | 504704 | 5852697 | A2 | 4 | 2.9 | 0.2 | - | Two parallel irregular shaped linears, possibly partially buried debris. | |
| 70140 | Magnetic | 484365 | 5852618 | A2 | - | - | - | 62 | Medium distinct asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70141 | Magnetic | 483846 | 5852465 | A2 | - | - | - | 29 | Small sized possible dipole anomaly, looks more uniform than surrounding data, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70142 | Dark reflector | 503940 | 5852441 | A2 | 1.7 | 0.4 | 0.3 | - | Oval shaped anomaly with rectangular shadow and slight scour. | |
| 70143 | Seafloor disturbance | 487598 | 5852370 | A2 | 12.2 | 7 | 0.3 | - | Semi-circular shaped area of dark reflectors comprising two adjacent curvilinear anomalies. Diffuse with no obvious structure but could be partially buried object, buried at base of sandwave. | |
| 70144 | Dark reflector | 487793 | 5852307 | A2 | 3.8 | 0.5 | 0.2 | - | Rectangular anomaly lying on sand ripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70145 | Magnetic | 484434 | 5852277 | A2 | - | - | - | 46 | Distinct asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70146 | Magnetic | 488043 | 5852258 | A2 | - | - | - | 44 | Small sized distinctive asymmetric dipole | |
| 70147 | Magnetic | 491954 | 5852251 | A2 | - | - | - | 218 | Large asymmetric dipole anomaly across adjacent lines, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70148 | Dark reflector | 505075 | 5851991 | A2 | 0.9 | 0.7 | 0.4 | - | Approximately V-shaped anomaly with slight scour, possibly partially buried. Possible extending scour visible as a depression measuring 17.8m x 7.5m x 0.5m in the multibeam bathymetry data. | |
| 70149 | Dark reflector | 489096 | 5851966 | A2 | 2 | 1 | 0.1 | - | Two semi-circular anomalies lying side-by-side. | |
| 70150 | Seafloor disturbance | 492070 | 5851830 | A2 | 13.5 | 12.3 | 0.2 | - | Discrete oval shaped area containing at least three sub-circular dark reflectors, one with height which is measured here. Possibly piece of debris and could indicate further buried debris. Area has harder sediments also compared to surrounding area. | |
| 70151 | Magnetic | 503852 | 5851811 | A2 | - | - | - | 8 | Distinct dipolar anomaly in broader area of positive anomalies, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70152 | Magnetic | 492847 | 5851804 | A2 | - | - | - | 28 | Asymmetric dipole, also present on adjacent line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70153 | Dark reflector | 500184 | 5851664 | A2 | 2 | 0.6 | 0.2 | - | Short thick linear, possibly piece of debris. | |
| 70154 | Magnetic | 497146 | 5851631 | A2 | - | - | - | 127 | Medium positive monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70155 | Dark reflector | 500003 | 5851455 | A2 | 4 | 0.4 | 0.1 | - | Strong linear anomaly. | |
| 70156 | Magnetic | 503436 | 5851329 | A2 | - | - | - | 14 | Distinct dipolar anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70157 | Magnetic | 493040 | 5851206 | A2 | - | - | - | 12 | Asymmetric dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70158 | Dark reflector | 490770 | 5851202 | A2 | 2.2 | 0.2 | 0.1 | - | Small, oblong anomaly, isolated. | |
| 70159 | Magnetic | 492545 | 5851167 | A2 | - | - | - | 48 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70160 | Rope/chain | 502675 | 5851160 | A2 | 41.2 | 0.4 | 0 | - | Intermittent linear dark reflector, possibly buried cable or seabed scarring. | |
| 70161 | Dark reflector | 495776 | 5851121 | A2 | 2.5 | 0.3 | 0 | - | Short, narrow linear anomaly. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70162 | Magnetic | 502739 | 5851034 | A2 | - | - | - | 16 | Negative monopolar anomaly, stonger than other similar anomalies along survey line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70163 | Dark reflector | 493434 | 5851023 | A2 | 3.3 | 0.6 | 0 | - | Curvilinear anomaly, appears partially buried, at edge of range. | |
| 70164 | Magnetic | 485548 | 5850999 | A2 | - | - | - | 34 | Two anomalies approximately 35m apart, asymmetric dipolar anomaly and small sized dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70165 | Rope/chain | 502997 | 5850944 | A2 | 94.2 | 0.6 | 0 | - | Intermittent curvilinear dark reflectors in a curvilinear orientation, possibly buried cable or rope/chain or possibly seabed scarring. | |
| 70166 | Seafloor disturbance | 499790 | 5850889 | A2 | 6.4 | 2.4 | 0.5 | - | Irregular shaped anomaly, possibly piece of debris lying at crest of a sand ripple. | |
| 70167 | Dark reflector | 499228 | 5850858 | A2 | 3.7 | 1.2 | 0.3 | - | Pear drop shaped anomaly with shadow only in the curved part of the anomaly, possibly piece of debris. | |
| 70168 | Seafloor disturbance | 501684 | 5850769 | A2 | 13.7 | 13.3 | 0.2 | - | Discrete area containing numerous small circular and short linear dark reflectors, possibly debris but badly degraded and broken up, no structure visible to identify definitely as wreck but possible. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70169 | Magnetic | 487356 | 5850767 | A2 | - | - | - | 40 | Narrow and distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70170 | Dark reflector | 492800 | 5850749 | A2 | 6.2 | 0.3 | 0 | - | Linear anomaly at different orientation to direction of sand ripples in the area. | |
| 70171 | Dark reflector | 488448 | 5850728 | A2 | 1.9 | 0.5 | 0 | - | Two small circular anomalies lying adjacent to each other. | |
| 70172 | Seafloor disturbance | 492382 | 5850684 | A2 | 33.3 | 20.8 | 0.2 | - | Discrete area in sand ripples containing several circular and curvilinear dark reflectors some with height. Three are possibly in linear orientation. Could indicate buried debris. | |
| 70173 | Dark reflector | 486313 | 5850680 | A2 | 3.8 | 0.3 | 0.3 | - | Narrow, short curvilinear anomaly with uneven height. | |
| 70174 | Dark reflector | 492696 | 5850661 | A2 | 3.2 | 0.6 | 0 | - | Short linear anomaly, possibly partially buried and located approximately 35m to the north-east of debris field anomaly 70176 and possibly further associated debris. | |
| 70175 | Seafloor disturbance | 497297 | 5850658 | A2 | 27.8 | 7.3 | 0 | - | Irregular shaped anomaly that has numerous dark reflectors mostly circular in shape. Possibly object partially or nearly wholly buried. | |
| 70176 | Debris field | 492663 | 5850640 | A2 | 16.6 | 12.4 | 0 | - | Irregular shaped discrete area containing several small circular and curvilinear dark reflectors which could be debris on the seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70177 | Dark reflector | 492580 | 5850624 | A2 | 2.2 | 0.7 | 0.2 | - | Sub-oval shaped anomaly with one part of it exhibiting height. | |
| 70178 | Magnetic | 504025 | 5850596 | A2 | - | - | - | 25 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70179 | Magnetic | 492356 | 5850591 | A2 | - | - | - | 20 | Irregular shaped anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70180 | Dark reflector | 485248 | 5850585 | A2 | 1.1 | 0.6 | 0.2 | - | Small approximately circular anomaly, isolated. | |
| 70181 | Bright reflector | 487994 | 5850520 | A2 | 5.3 | 2.9 | 0 | - | Rectangular anomaly, possibly piece of debris of material such as plastic or rubber or wood. | |
| 70182 | Dark reflector | 497488 | 5850430 | A2 | 2.2 | 0.7 | 0.1 | - | Approxmately triangular shaped anomaly partially buried in sediment possibly piece of debris. | |
| 70183 | Magnetic | 500734 | 5850366 | A2 | - | - | - | 46 | Distinct dipolar anomaly, in an area of sand ripples but anomalies responding to those are weaker and follow curvilinear pattern. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70184 | Rope/chain | 492374 | 5850291 | A2 | 40.6 | 0.4 | 0 | - | Intermittent linear dark reflector possibly buried rope/chain or larger object such as cable. | |
| 70185 | Dark reflector | 487927 | 5850289 | A2 | 3.5 | 0.7 | 0.4 | - | Approximately square-shaped anomaly, possibly piece of debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70186 | Magnetic | 502340 | 5850183 | A2 | - | - | - | 20 | Dipolar anomaly, stronger than other dipolar anomalies along survey line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70187 | Debris | 492357 | 5850168 | A2 | 13 | 0.4 | 0 | 65 | Two thick curvilinear anomalies approximately 13m apart. The slightly larger one is 4.4m and the smaller one is 3.7m. A medium magnetic anomaly is associated, indicating ferrous content. | |
| 70188 | Debris | 492166 | 5850155 | A2 | 12.8 | 8.5 | 0 | 20 | Three curvilinear anomalies in a discrete area possibly all part of same object as it looks like the curvilinears disappear into and out of the sediment and therefore partially buried. Approximately 30m to the east is a weak almost triangular dark reflector 3m x 0.7m possibly associated. Magnetic contact therefore possibly debris is ferrous. | |
| 70189 | Seafloor disturbance | 484208 | 5850135 | A2 | 22.8 | 8.6 | 0.8 | - | Boomerang shaped dark reflector perpendicular to direction of sand ripples, possibly buried object with height. Second associated narrow linear off one area, full extent unknown as partially buried in sediment, no obvious structure to indicate a wreck but large object nonetheless with scour measuring 7.3m x 5.4m x 1.5m. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70190 | Dark reflector | 491059 | 5850095 | A2 | 3.3 | 0.4 | 0 | - | Short, weak linear anomaly. | |
| | | | | | | | | | Discrete area containing at least two | |
| | | | | | | | | | objects, weak curvilinear dark | |
| 70191 | Debris field | 502303 | 5850080 | A2 | 14.6 | 2.8 | 0 | _ | reflector 4m x 2.5m and ring shaped | |
| 70151 | Debits field | 302303 | 3030000 | 7.2 | 14.0 | 2.0 | Ü | | dark reflector nearby 1.7m wide, | |
| | | | | | | | | | possible further tiny circular dark | |
| | | | | | | | | | reflectors are also debris. | |
| 70192 | Dark reflector | 502705 | 5850057 | A2 | 0.9 | 0.7 | 0.2 | _ | Approximately circular anomaly in | |
| 70151 | Burk remeded | 302703 | 3030037 | , 12 | 0.5 | 0.7 | 0.2 | | area of sand ripples. | |
| | | | | | | | | | Asymmetrical dipolar anomaly, | |
| | | | | | | | | | possibly buried ferrous object as | |
| 70193 | Magnetic | 503738 | 5849999 | A2 | - | - | - | 7 | there is no sidescan sonar or | |
| | | | | | | | | | bathymetry anomaly visible at this | |
| | | | | | | | | | location. | |
| | | | | | | | | | Approximately rectangular anomaly, | |
| 70194 | Dark reflector | 487788 | 5849932 | A2 | 5.1 | 3.1 | 0.4 | - | possibly with narrow linear coming | |
| | | | | | - | - | - | | off one side, appears nearly wholly | |
| | | | | | | | | | buried with slight scour. | |
| | | | | | | | | | Irregular dipole, possibly buried | |
| | | | | | | | | | ferrous object as there is no sidescan | |
| | | | | | | | | | sonar or bathymetry anomaly visible | |
| 70195 | Magnetic | 483957 | 5849862 | A2 | - | - | - | 39 | at this location. Two other anomalies | |
| | - | | | | | | | | are aligned with 70195 in a linear | |
| | | | | | | | | | orientation - 70196 and 70198 - they | |
| | | | | | | | | | are possibly associated with each | |
| | | | | | | | | | other. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70196 | Magnetic | 483954 | 5849778 | A2 | - | - | - | 37 | Irregular dipole, at the same location as previously identified zoning anomaly. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. Two other anomalies are aligned with 70196 in a linear orientation - 70195 and 70198 - they are possibly associated with each other. | |
| 70197 | Magnetic | 498232 | 5849755 | A2 | - | - | - | 24 | Two adjacent anomalies, a small dipole of 12nT in noisy data and a larger irregular shaped dipole of 24nT. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70198 | Magnetic | 483954 | 5849715 | A2 | - | - | - | 34 | Irregular dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. Two other anomalies are aligned with 70198 in a linear orientation - 70195 and 70196 - they are possibly associated with each other. | |
| 70199 | Dark reflector | 490320 | 5849691 | A2 | 18.5 | 1.8 | 0 | - | Diffuse linear anomaly measuring 18.5m x 1.8m and is located approximately 60m to the north-east of debris field anomaly 70202 , possibly associated with it. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|-------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70200 | Magnetic | 502043 | 5849688 | A2 | - | - | - | 10 | Dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70201 | Magnetic | 486621 | 5849687 | A2 | - | - | - | 28 | Small sized asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70202 | Debris field | 490377 | 5849670 | A2 | 25 | 12 | 0.8 | - | Irregular shaped discrete area partially visible in the bathy as an elongated mound overlying sand ripples. Area contains one major curvilinear and several narrow curvilinear dark reflectors but with no obvious structure. Possibly associated is anomaly 70199 approximately 60m to the north-west. | |
| 70203 | Seafloor disturbance | 487053 | 5849457 | A2 | 16 | 5.8 | 0.5 | - | Discrete area containing at least three curvilinear regular spaced dark reflectors with scour coming off each one. No obvious structure therefore not classified as debris or wreck. | |
| 70204 | Dark reflector | 495916 | 5849456 | A2 | 4.1 | 2.2 | 0 | - | Rectilinear anomaly, weak and intermittent, partially buried, possibly piece of debris. | |
| 70205 | Dark reflector | 491997 | 5849437 | A2 | 2.8 | 1.6 | 0.2 | - | Triangular anomaly in area of sand ripples, possibly piece of debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70206 | Magnetic | 484545 | 5849367 | A2 | - | - | - | 31 | Distinct wide dipole anomaly in noisy area, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70207 | Magnetic | 490544 | 5849349 | A2 | - | - | - | 37 | Narrow small sized positive monopole in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70208 | Magnetic | 493932 | 5849341 | A2 | - | - | - | 46 | Irregular and wide dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70209 | Magnetic | 484632 | 5849196 | A2 | - | - | - | 41 | Distinct small sized dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70210 | Seafloor disturbance | 487018 | 5849159 | A2 | 24.7 | 4.3 | 0.2 | 13 | Curvilinear diffuse dark reflector, height is a minimum as object at edge of range and data is of average quality, weather noise visible and it appears partially buried. Anomaly has scour and is in an area of slightly raised seabed. Thin and distinctive small negative monopole anomaly indicates possibility of ferrous material. | |
| 70211 | Dark reflector | 493073 | 5849147 | A2 | 3.4 | 0.2 | 0.1 | - | Short thick linear anomaly, possibly piece of debris lying on seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70212 | Dark reflector | 486171 | 5849025 | A2 | 10.3 | 4.9 | 0 | - | Curvilinear dark reflector with further rectangular 'frame' shaped dark reflector attached, possibly piece of debris. | |
| 70213 | Dark reflector | 492690 | 5849012 | A2 | 3.3 | 0.3 | 0.1 | - | Narrow weak linear. | |
| 70214 | Dark reflector | 496592 | 5849011 | A2 | 1.5 | 0.4 | 0 | - | Narrow strong linear, possibly piece of debris lying on seabed. | |
| 70215 | Dark reflector | 491266 | 5848989 | A2 | 5.3 | 0.4 | 0 | - | Short intermittent linear anomaly. | |
| 70216 | Magnetic | 503341 | 5848973 | A2 | - | - | - | 45 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70217 | Magnetic | 496019 | 5848907 | A2 | - | - | - | 10 | Asymmetric distinct dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70218 | Dark reflector | 503180 | 5848758 | A2 | 2.5 | 0.4 | 0.1 | - | Thick short linear with height only at one end. | |
| 70219 | Magnetic | 501631 | 5848736 | A2 | - | - | - | 25 | Positive narrow peaked monopolar anomaly, possibly associated with anomalies 70220 and 70221 making up part of a larger feature. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70220 | Magnetic | 501532 | 5848734 | A2 | - | - | - | 23 | Negative monopolar anomaly, possibly associated with anomalies 70219 and 70221 making up part of a larger feature. Possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70221 | Dark reflector | 501464 | 5848700 | A2 | 6.8 | 0.4 | 0 | - | S-shaped anomaly, possibly length of rope or chain, possibly associated with anomalies 70219 and 70220 making up part of a larger feature. | |
| 70222 | Magnetic | 502144 | 5848683 | A2 | - | - | - | 15 | Dipolar anomaly, stronger than other similar anomalies on survey line. possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70223 | Dark reflector | 491994 | 5848582 | A2 | 25.3 | 0.4 | 0 | - | Three narrow, short intermittent linears measuring between 1.6 to 2.5m in length and 0.3 to 0.4m in width. Only one has height. Possibly linear feature such as a cable but not magnetic contacts associated | |
| 70224 | Dark reflector | 500986 | 5848577 | A2 | 4.2 | 0.3 | 0 | - | Short curvilinear anomaly in area of sand ripples, possibly partially buried. | |
| 70225 | Dark reflector | 500956 | 5848554 | A2 | 4.6 | 0.5 | 0 | - | Narrow linear anomaly, slightly fatter at one end, possibly second tiny linear nearby. | |
| 70226 | Magnetic | 500832 | 5848536 | A2 | - | - | - | 19 | Positive monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70227 | Dark reflector | 486970 | 5848523 | A2 | 3.6 | 0.5 | 0.3 | - | Sub-rectangular anomaly in area of sand ripples, possibly partially buried piece of debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70228 | Magnetic | 500734 | 5848497 | A2 | - | - | - | 34 | Negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70229 | Magnetic | 484020 | 5848428 | A2 | - | - | - | 29 | Small sized positive monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70230 | Debris | 502521 | 5848325 | A2 | 4.3 | 3.6 | 0 | 6 | One linear and one curvilinear anomaly side by side with weak magnetic contact suggesting presence of ferrous material. | |
| 70231 | Magnetic | 498816 | 5848245 | A2 | - | - | - | 42 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70232 | Magnetic | 488544 | 5848226 | A2 | - | - | - | 58 | Asymmetric dipole, very distinctive, could be part of linear alignment, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70233 | Magnetic | 498628 | 5848225 | A2 | - | - | - | 28 | Small sized negative monopole, possibly sandwave but distinct against other anomalies in the area, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70234 | Magnetic | 501630 | 5848215 | A2 | - | - | - | 10 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70235 | Dark reflector | 502685 | 5848184 | A2 | 6.4 | 0.4 | 0 | - | Curvilinear anomaly with one end disappearing into sediment and very weak, possibly piece of partially buried debris. | |
| 70236 | Dark reflector | 494187 | 5848166 | A2 | 3.3 | 0.3 | 0.1 | - | Narrow linear with uneven height. | |
| 70237 | Magnetic | 496948 | 5848156 | A2 | - | - | - | 17 | Very distinct, thin symmetric dipole, isolated on one line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70238 | Magnetic | 498933 | 5848154 | A2 | - | - | - | 15 | Negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70239 | Dark reflector | 484465 | 5848117 | A2 | 3.3 | 0.7 | 0 | - | Small rectangular anomaly, in area of sand ripples, is located on the route of a cable but has been kept as it is in a different orientation from the cable anomalies. | |
| 70240 | Dark reflector | 495887 | 5848117 | A2 | 3.9 | 0.3 | 0.3 | - | Narrow linear with large rounded shadow. | |
| 70241 | Magnetic | 488544 | 5848052 | A2 | - | - | - | 71 | Asymmetric dipole, very distinctive, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70242 | Magnetic | 484614 | 5848037 | A2 | - | - | - | 38 | Distinct small sized negative monopole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70243 | Magnetic | 497745 | 5848014 | A2 | - | - | - | 49 | Irregular shaped dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70244 | Dark reflector | 490292 | 5848011 | A2 | 6.3 | 0.5 | 0 | - | Narrow linear lying across sediment. | |
| 70245 | Magnetic | 490739 | 5847970 | A2 | - | - | - | 11 | Small asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70246 | Dark reflector | 489010 | 5847966 | A2 | 1.5 | 0.6 | 0.3 | - | Sub-oval shaped small anomaly. | |
| 70247 | Dark reflector | 492329 | 5847948 | A2 | 2.2 | 1.4 | 0.4 | - | Diffuse curvilinear anomaly with several tiny circular anomalies around it. | |
| 70248 | Dark reflector | 496496 | 5847899 | A2 | 1.6 | 1.1 | 0.3 | | Sub-oval shaped anomaly with slight scour which is possibly a boulder in a depression but due to its locations approximately 60m north-east of wreck 70255 it is potentially inferred as debris. | |
| 70249 | Dark reflector | 487436 | 5847874 | A2 | 9.5 | 3.2 | 0.1 | - | Irregular complex looking anomaly with slight height, possibly piece of debris but there is a possibility that the feature is natural. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70250 | Debris field | 496455 | 5847872 | A2 | 23.3 | 4.2 | 0.2 | - | At least 5 smaller approximately circular dark reflectors in a discrete area ranging from 0.5m to 2.5m in size and lying approximately 120m from the main wreck area of 70255 . | |
| 70251 | Dark reflector | 484970 | 5847866 | A2 | 8.8 | 6.1 | 1.2 | - | Oval shaped anomaly with weaker, more diffuse irregular shaped area coming off one side. In area of sand ripples. Rectangular 'frame' shaped anomaly with scour obscuring part of the object, in area of sand ripples and appears partially buried, true extent therefore unknown. | |
| 70252 | Magnetic | 494540 | 5847865 | A2 | - | - | - | 11 | Small negative monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70253 | Debris | 496470 | 5847849 | A2 | 1.5 | 0.4 | 0.1 | - | Small thick linear dark reflector, possibly associated debris from wreck anomaly 70255 . | |
| 70254 | Dark reflector | 489981 | 5847837 | A2 | 12 | 0.2 | 0.1 | - | Two short, narrow linears one 3m x 0.2m x 0.1m and the second 2.2m x 0.2m x 0.1m. | |





| | society rogether | | | | | | | | | |
|-------|------------------|--------|---------|----|----|----|-----|------|--|--------|
| | | | | | | | | | Discrete irregular shaped area in soft | |
| | | | | | | | | | sediment containing one prominent | |
| | | | | | | | | | L-shaped dark reflector which looks | |
| | | | | | | | | | structural and numerous linear and | |
| | | | | | | | | | curvilinear dark reflectors scattered | |
| | | | | | | | | | around. It is interpreted as a wreck, | |
| | | | | | | | | | damaged, partially buried and | |
| | | | | | | | | | orientated north-west to south-east. | |
| | | | | | | | | | An unknown wreck, first detected in | |
| | | | | | | | | | 1994 with the surveyed position of | |
| | | | | | | | | | this wreck regarded as having an | |
| | | | | | | | | | accuracy of 15m. According to the | |
| | | | | | | | | | UKHO description the 1994 survey | |
| | | | | | | | | | data indicates the presence of an | |
| | | | | | | | | | entire wreck, largely buried, lying just | |
| | | | | | | | | | below the crest of an adjacent | |
| | | | | | | | | | sandwave. Only a small portion of the | 11213 |
| 70255 | Wreck | 496393 | 5847836 | A1 | 60 | 22 | 1.5 | 2879 | wreck was observed standing above | (UKHO) |
| | | | | | | | | | the seabed level. The wreck is | (3) |
| | | | | | | | | | thought to be orientated south-east | |
| | | | | | | | | | to north-west measuring 35m x 5m x | |
| | | | | | | | | | 2.9m, the orientation corresponding | |
| | | | | | | | | | to the 2013 results. Magnetometer | |
| | | | | | | | | | data indicate that the wreck extends | |
| | | | | | | | | | to the SE for approximately 40m. At | |
| | | | | | | | | | the location of the recorded wreck | |
| | | | | | | | | | position is a small irregular shaped | |
| | | | | | | | | | area 7.5m x 4m x 0.5m containing | |
| | | | | | | | | | diffuse dark reflectors with the | |
| | | | | | | | | | majority of the wreck debris visible to | |
| | | | | | | | | | the north-west of the site and | |
| | | | | | | | | | measuring 37.5m x 16m x 1.5m. | |
| | | | | | | | | | Potentially we are seeing the two | |
| | | | | | | | | | ends of the wreck site with the rest | |
| | | | | | | | | | significantly buried, this would | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| | | | | | | | | | increase the length of the wreck to 60m from the UKHO recorded length of 35m. A significant amount of ferrous material is suggested by a very large and wide dipole anomaly across two lines. Possible associated wreck debris ranges from 1.5m x 1m in size to 23.5m x 4m for a discrete area containing more than one piece of debris, the anomalies are 70248, 70250 and 70253. To the north-east, south-east and west are five pieces of debris visible but there is possibility of further debris buried in sediment potentially up to 125m away from main wreck site. | |
| 70256 | Magnetic | 487809 | 5847825 | A2 | - | - | - | 39 | Small sized negative monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70257 | Magnetic | 500622 | 5847810 | A2 | - | - | - | 18 | Distinct dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70258 | Dark reflector | 495584 | 5847766 | A2 | 3.8 | 1.5 | 0 | - | Possibly anthropogenic origin, small oval shaped anomaly at intersection of two orientations of sand ripples. Diffuse and difficult to distinguish shape. | |
| 70259 | Rope/chain | 490067 | 5847758 | A2 | 57.2 | 2.8 | 0 | - | Series of several curvilinear or linear small dark reflectors in a linear orientation. Possibly buried cable causing seafloor disturbance. | |
| 70260 | Magnetic | 486351 | 5847758 | A2 | - | - | - | 18 | Small asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70261 | Debris | 489869 | 5847738 | A2 | 3.8 | 0.5 | 0.1 | 14 | Pointed, sub-oval shaped anomaly with small negative monopole anomaly, possibly piece of debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70262 | Wreck | 498353 | 5847680 | A1 | 33.0 | 8.0 | 1.7 | 153 | Discrete area containing several curvilinear and rectilinear dark reflectors 33m x 8m x 1.7m and showing structure of a wreck lying on its side, partially buried in sediment going from sand ripples to coarser sediment. Further small anomalies nearby are debris. Several parallel linear dark reflectors and areas of numerous tiny circular dark reflectors showing nearly wholly buried structure of a wreck, upright, looks like deck structure. Three pieces of potential wreck debris to east and south-east of wreck. Debris ranges in size from 1m x 0.5m x 0.2m to 2.6m x 1.2m and are either oval shaped or square-shaped dark reflectors. Strongest associated magnetic contact at location of wreck is a large negative monopole anomaly. An unknown wreck, first detected in 1994. Survey data indicates that the wreck is small and present in its entirety lying NW/SE, although it is broken up, it measures 30m x 5m x 0.6m. A magnetic anomaly associated with the wreck was also observed. The surveyed position of this wreck is regarded as having an accuracy of 13m. | 11214 (UKHO) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70263 | Debris | 498368 | 5847678 | A2 | 1.1 | 0.6 | 0.2 | - | Small approximately oval shaped dark reflector near wreck 70262 and possibly associated debris. | |
| 70264 | Dark reflector | 486628 | 5847669 | A2 | 6.3 | 1.1 | 0.3 | - | Weak intermittent linear with four separate triangular shadows with overall scour. | |
| 70265 | Debris | 498385 | 5847642 | A2 | 2.6 | 1.2 | 0 | - | Approximately oval shaped dark reflector in vicinity of wreck 70262 and possibly associated. Looks partially buried. | |
| 70266 | Debris | 498770 | 5847617 | A2 | 13.8 | 1.1 | 0.2 | - | Diffuse approximately oval shape with second short narrow linear adjacent and a narrow curvilinear attached, possibly partially buried debris as several anomalies visible in a discrete area. | |
| 70267 | Dark reflector | 491777 | 5847612 | A2 | 2.9 | 0.5 | 0.2 | - | Short bar-shaped anomaly with only a narrow linear shadow at one point, not along full length. | |
| 70268 | Dark reflector | 498171 | 5847533 | A2 | 40 | 3.5 | 0.2 | - | Discrete elongated area containing four anomalies either rectangular in shape or approximately triangular ranging in size from 4.5m x 3.5m x 0.2m to 1.8m x 0.8m x 0.1m. They are all possible associated forming a roughly linear orientation from north to south. | |
| 70269 | Magnetic | 498416 | 5847500 | A2 | - | - | - | 9 | Thin negative small monopole anomaly in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70270 | Magnetic | 501416 | 5847500 | A2 | - | - | - | 22 | Negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70271 | Dark reflector | 501684 | 5847486 | A2 | 7.2 | 0.9 | 0.1 | - | Rectilinear, intermittent anomaly, appears partially buried, possibly piece of debris. | |
| 70272 | Magnetic | 498218 | 5847447 | A2 | - | - | - | 25 | Asymmetric irregular shaped dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70273 | Debris | 485872 | 5847427 | A2 | 16.3 | 5.2 | 0.2 | - | Discrete area on crest of sand ripple containing two curvilinear dark reflectors adjacent to each other with possibly further circular dark reflectors nearby. Possibly further anomalies buried. | |
| 70274 | Magnetic | 489530 | 5847358 | A2 | - | - | - | 39 | Asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70275 | Magnetic | 493723 | 5847351 | A2 | - | - | - | 47 | Asymmetric dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70276 | Magnetic | 501005 | 5847336 | A2 | - | - | - | 16 | Dipolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70277 | Dark reflector | 497835 | 5847280 | A2 | 1.7 | 0.7 | 0.1 | - | Small sub-oval shaped anomaly, appears partially buried. | |
| 70278 | Magnetic | 485925 | 5847252 | A2 | - | - | - | 45 | Irregular shaped dipole of 23nT and irregular shaped negative monopole of 45nT, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70279 | Magnetic | 496524 | 5847248 | A2 | - | - | - | 25 | Small sized distinct dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70280 | Magnetic | 501124 | 5847245 | A2 | - | - | - | 33 | Negative monopolar anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70281 | Magnetic | 489740 | 5847210 | A2 | - | - | - | 24 | Distinct small sized dipole in area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70282 | Debris field | 484776 | 5847154 | A2 | 4.7 | 2.9 | 0.1 | - | Narrow curvilinear, further three very small similar anomalies in immediate vicinity, possibly associated and making up a group of debris. | |
| 70283 | Magnetic | 483815 | 5847110 | A2 | - | - | - | 38 | Small sized possible monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|-----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70284 | Dark reflector | 491558 | 5847076 | A2 | 1.3 | 0.7 | 0.1 | _ | Two small circular anomalies grouped | |
| 70204 | Dark reflector | 491336 | 3047070 | AZ | 1.5 | 0.7 | 0.1 | _ | together, only one has height. | |
| 70285 | Bright reflector | 486522 | 5847068 | A2 | 2.8 | 0.9 | 0 | _ | Sub-rectangular anomaly with scour, | |
| 70200 | Dright refreetor | 100322 | 30 17 000 | , | 2.0 | 0.5 | | | possibly piece of debris. | |
| | | | | | | | | | Adjacent small triangular anomalies, | |
| 70286 | Dark reflector | 495677 | 5847039 | A2 | 3.4 | 1.3 | 0 | - | partially buried and possibly a piece | |
| | | | | | | | | | of debris. | |
| | | | | | | | | | Negative narrow monopolar | |
| | | | | | | | | | anomaly, possibly buried ferrous | |
| 70287 | Magnetic | 500212 | 5846982 | A2 | - | - | - | 29 | object as there is no sidescan sonar | |
| | | | | | | | | | or bathymetry anomaly visible at this | |
| | | | | | | | | | location. | |
| 70288 | Dark reflector | 489235 | 5846982 | A2 | 4.2 | 0.8 | 0 | - | Pointed oval shaped anomaly. | |
| 70289 | Dark reflector | 495462 | 5846968 | A2 | 2.5 | 0.2 | 0 | _ | Short narrow linear, in area of sand | |
| | | | | | | | · | | ribbons. | |
| 70290 | Rope/chain | 496587 | 5846868 | A2 | 130 | 0.9 | 0.1 | - | Intermittent linear bright reflector, | |
| | | | | | | | | | possibly seabed scar or buried cable. | |
| | | | | | | | | | Medium negative monopole | |
| | | | | | | | | | anomaly, possibly buried ferrous | |
| 70291 | Magnetic | 489929 | 5846868 | A2 | - | - | - | 67 | object as there is no sidescan sonar | |
| | | | | | | | | | or bathymetry anomaly visible at this | |
| | | | | | | | | | location. | |
| 70292 | Debris | 489362 | 5846856 | A2 | 1.3 | 0.6 | 0.5 | - | Circular anomaly but with narrow | |
| | | | | | | | | | thin, linear, shadow. | |
| | | | | | | | | | Circular anomaly with straight edged | |
| 70293 | Dark reflector | 487569 | 5846833 | A2 | 1.5 | 0.4 | 0.3 | - | shadow it is possible debris but could | |
| | | | | | | | | | be a boulder | |
| 70294 | Dark reflector | 493264 | 5846790 | A2 | 1.6 | 0.6 | 0 | - | Small pointed oval shaped anomaly, | |
| | | | | | - | | | | appears partially buried in sediment. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70295 | Magnetic | 495940 | 5846725 | A2 | - | - | - | 12 | Small but distinct dipole, could be natural or possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70296 | Dark reflector | 491990 | 5846614 | A2 | 2.8 | 0.4 | 0 | - | Narrow rectangular, nearly T-shaped anomaly at edge of range. | |
| 70297 | Dark reflector | 492952 | 5846516 | A2 | 5.8 | 3.8 | 0.6 | - | Small sub-oval area of dark reflection and which appears to be partially buried. Possible small shallow areas of scour off either side of object, possibly piece of debris. | |
| 70298 | Dark reflector | 492651 | 5846464 | A2 | 2.7 | 1 | 0.2 | - | Irregular looking oval shaped anomaly, area contains at least three connecting curvilinear dark reflectors, possibly buried object. | |
| 70299 | Dark reflector | 484679 | 5846411 | A2 | 2.4 | 2.2 | 0.3 | - | Square shaped anomaly in area of sand ripples, possibly piece of debris. | |
| 70300 | Dark reflector | 488859 | 5846389 | A2 | 6.3 | 0.6 | 0.1 | - | Strong narrow linear anomaly possibly with weak curvilinear anomaly attached, lying on sediment, possibly piece of debris. | |
| 70301 | Dark reflector | 486924 | 5846351 | A2 | 6.8 | 0.2 | 0.7 | - | Weak narrow linear anomaly in a depression. | |
| 70302 | Magnetic | 495213 | 5846302 | A2 | - | - | - | 37 | Small sized negative monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70303 | Seafloor disturbance | 486469 | 5846205 | A2 | 65 | 11.5 | 1.1 | - | Discrete area measuring 40m x 11.5m x 1m consisting of one larger pointed oval shaped dark reflector with irregular shadow. Main anomaly is surrounded by intermittent curvilinears in no regular order and showing no obvious structure. Appears partially buried with at least one further piece of associated debris 45m to the south-east of the main area in the form of a linear anomaly measuring 6m x 1m x 0.1m. Scour extending immediately north for a distance of up to 50m. Classified as seafloor disturbance as there is no structure visible to confirm it is a wreck. | |
| 70304 | Magnetic | 488007 | 5846204 | A2 | - | - | - | 38 | Small sized negative monopole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70305 | Debris | 488363 | 5846158 | A2 | 5.3 | 4.3 | 0.7 | - | Approximately rectangular frame- shaped anomaly with further linear and circular dark reflector adjacent. | |
| 70306 | Magnetic | 488523 | 5846103 | A2 | - | - | - | 22 | Small and distinct asymmetric dipole, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70307 | Dark reflector | 487339 | 5846089 | A2 | 4.4 | 2.9 | 0 | - | Sub-rectangular, diffuse anomaly, appears partially buried in area of | |
| | | | | | | | | | sand ripples. Distinct small dipole in area of noise, possibly buried ferrous object as | |
| 70308 | Magnetic | 493406 | 5846085 | A2 | - | - | - | 11 | there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70309 | Magnetic | 491314 | 5846074 | A2 | - | - | - | 16 | Thin asymmetric dipole in a area of noise, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70310 | Dark reflector | 484577 | 5846055 | A2 | 19.6 | 4.3 | 0.9 | - | Elongated depression cutting across sand ripples measuring 10.5m x 7.4m x 0.7m which is a thick bar shaped structure, with narrow linear protruding off shorter end which increases the dimensions of the overall anomaly. Appears partially buried in sediment therefore dimensions are a minimum. | |
| 70311 | Magnetic | 484815 | 5845871 | A2 | - | - | - | 100 | Medium and distinct thin dipole anomaly on one line, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70312 | Debris | 485572 | 5845620 | A2 | 15.5 | 12.5 | 0.4 | - | Irregular shaped discrete area containing a complex anomaly of numerous dark reflectors that suggest structure but weak contrast. Looks broken up and damaged but partially buried so difficult to see full condition. Partially buried therefore true extent unknown. It is situated in trend of high magnetic anomalies and therefore the presence of magnetic material cannot be ruled out. | |
| 70313 | Dark reflector | 488229 | 5845487 | A2 | 3.5 | 2.2 | 0.2 | - | Irregular shaped complex looking anomaly. | |
| 70314 | Magnetic | 484316 | 5845272 | A2 | - | - | - | 90 | Irregular shaped dipole anomaly in noisy area but large magnetic value compared to other anomalies in the area, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70315 | Magnetic | 486921 | 5845260 | A2 | - | - | - | 68 | Distinct dipole anomaly, possibly buried ferrous object as there is no sidescan sonar or bathymetry anomaly visible at this location. | |
| 70316 | Dark reflector | 486968 | 5845181 | A2 | 6.5 | 4.8 | 0.4 | - | Oval shaped anomaly with second but weaker oval anomaly and a narrow curvilinear anomaly adjacent. Appears partially buried in area of sand ripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|--------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71480 | Wreck | 503572 | 5848770 | A1 | 64 | 20 | 4.4 | 600 | Wreck of a submarine. Narrow elongated bathymetry anomaly oriented north-east to south-west and measuring 63.2 x 5.8 x 4.m and with an isolated scour to the northeast end. Prominent thick long dark reflector with numerous small linear, curvilinear and circular dark reflectors showing structure of wreck, intact, upright, heavily buried in sediment, disrupts sediment pattern in area with scour of approximately 160m extending to the north-east. Solid large linear dark reflectors showing bulk structure of wreck, possibly on side but looking intact, partially buried in sediment and debris seen scattered in vicinity, potentially more buried. Width of main wreck site is 6m but debris extending from wreck measures up to 20m. Possibly further debris to the south at a distance of approximately 40m from end of wreck shown by two magnetic anomalies | 79542 (UKHO) |
| NV Wes | t | | | | | | | | | |
| 71296 | Bright reflector | 470936 | 5876930 | A2 | 5.4 | 4.5 | 0 | - | A large and slightly bulbous bright reflector object located within sandwaves, looks anomalous to the surrounding seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71297 | Magnetic | 470549 | 5875951 | A1 | - | - | - | 953 | Very large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71298 | Debris | 467660 | 5874419 | A2 | 9.6 | 3.6 | 0.5 | - | Large piece of debris, a distinct dark reflector with an irregular shape, has two short and thin curvilinear dark reflectors attached and a bright shadow, isolated on a sandy and even area of the seabed. | |
| 71299 | Magnetic | 471001 | 5874207 | A1 | - | - | - | 1450 | Very large asymmetric dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. Lies approximately 180m west of charted pipeline and not part of linear anomaly associated with it. | |
| 71300 | Dark reflector | 467655 | 5873863 | A2 | 4.4 | 0.7 | 0.2 | - | Small straight object with a bright shadow on a different alignment to sandripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71301 | Debris field | 470711 | 5873567 | A1 | 23.0 | 0.9 | 0.2 | 7022 | Several distinct linear dark reflectors with height identified in an area of megaripples. Features appear to be in a line therefore possibly represent one, partially buried feature such as a possible wreck and, as such, have been grouped together as one. Length measurement represents length of entire feature. Largest individual dark reflector measures 7.6m. Feature has a very large associated magnetic anomaly, indicating ferrous material. | |
| 71302 | Magnetic | 470559 | 5873521 | A2 | - | - | - | 343 | Large asymmetric dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71303 | Dark reflector | 467627 | 5873298 | A2 | 8.1 | 0.9 | 0 | - | A thick linear dark reflector with no shadow, may be geological. | |
| 71304 | Bright reflector | 469341 | 5873168 | A2 | 5.3 | 2.6 | 0 | - | A linear and slightly right angled bright reflector, isolated and distinct feature, in a noisy area. | |
| 71305 | Debris | 467374 | 5872945 | A2 | 4.2 | 2.6 | 0.3 | - | A medium sized piece of possible debris, very distinct square shaped dark reflector with a dull shadow and in a depression, located near sandwaves. | |
| 71306 | Magnetic | 469173 | 5872781 | A2 | - | - | - | 244 | Large negative monopole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71307 | Dark reflector | 464983 | 5872669 | A2 | 7.4 | 1.2 | 0.3 | - | Poorly defined, irregular dark reflector with a shadow at either end. Image possibly distorted by movement of the sonar fish. | |
| 71308 | Debris | 471006 | 5872655 | A2 | 3.2 | 1.7 | 0.1 | - | A medium sized oval possible debris feature, distinct dark reflector with a very slight shadow located within sandwaves. | |
| 71309 | Dark reflector | 471069 | 5872611 | A2 | 6.5 | 0.5 | 0 | - | A thick and distinct right angled linear dark reflector with no shadow but in a depression. | |
| 71310 | Magnetic | 470829 | 5872335 | A2 | - | - | - | 33 | Small monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71311 | Bright reflector | 464688 | 5872253 | A2 | 9.3 | 2.3 | 0 | - | Slightly elongated, irregularly shaped, bright reflector. Other, smaller and less distinct bright reflectors possible nearby. | |
| 71312 | Bright reflector | 464545 | 5872107 | A2 | 3.8 | 3.3 | 0 | - | Irregular bright reflector, possibly a shadow but with no discernible contact, close to dark reflector 71313. | |
| 71313 | Dark reflector | 464549 | 5872098 | A2 | 7.9 | 1.3 | 0.6 | - | Elongated dark reflector with a broad shadow. Identified in an area of megaripples, 8m from bright reflector 71312. | |
| 71314 | Magnetic | 471077 | 5871919 | A1 | - | - | - | 896 | Large asymmetric dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71315 | Magnetic | 470861 | 5871493 | A2 | | | | 135 | Medium anomaly only identified on one survey line. Indicative of possible | |
| 71313 | Magnetic | 470001 | 3071433 | A2 | | | | 155 | buried ferrous debris. | |
| | | | | | | | | | Large dipole only identified on one | |
| 71316 | Magnetic | 470505 | 5871285 | A2 | - | - | - | 269 | survey line. Indicative of possible | |
| | | | | | | | | | substantial buried ferrous debris. | |
| | | | | | | | | | Poorly defined dark reflector with a | |
| 71317 | Dark reflector | 466117 | 5871188 | A2 | 6.1 | 4.8 | 0.6 | - | slight shadow identified in an area of | |
| | | | | | | | | | megaripples. | |
| | | | | | | | | | Distinct dark reflector, with a bright | |
| | | | | | | | | | reflector at the front section, | |
| 71318 | Dark reflector | 466214 | 5871180 | A2 | 11.1 | 6.0 | 0 | - | identified on the crest of a sandwave. | |
| | | | | | | | | | Possibly a natural feature however | |
| | | | | | | | | | looks quite distinct. | |
| | | | | | | | | | Straight dark reflector identified in an | |
| 71319 | Dark reflector | 466065 | 5871119 | A2 | 4.7 | 0.8 | 0.2 | - | area of megaripples. Feature has a | |
| | | | | | | | | | slight shadow. | |
| | | | | | | | | | Small, elongated dark reflector | |
| 71320 | Dark reflector | 464647 | 5871067 | A2 | 5.5 | 2.0 | 0 | - | identified in an area of megaripples. | |
| | | | | | | | | | Feature possibly has a slight shadow. | |
| | | | | | | | | | May be a natural feature. | |
| | | | | | | | | | Small, elongated dark reflector | |
| 71321 | Dark reflector | 464666 | 5871039 | A2 | 6.9 | 1.8 | 0.2 | - | identified in an area of megaripples. | |
| | | | | | | | | | Feature possibly has a slight shadow. | |
| | | | | | | | | | May be a natural feature. | |
| | | | | | | | | | Large asymmetric dipole only | |
| 71322 | Magnetic | 470425 | 5871023 | A2 | | | | 230 | identified on one survey line. Indicative of possible substantial | |
| /1322 | Magnetic | 470425 | 38/1023 | AZ | - | - | - | 230 | buried ferrous debris. Located 327 | |
| | | | | | | | | | north-west of wreck 71334. | |
| | | | | | | | | | HOLLII-WEST OF MIECK /1334. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71323 | Magnetic | 471157 | 5871003 | A1 | - | - | - | 1320 | Very large positive monopole only identified on one survey line. Indicative of possible substantial buried ferrous debris. Located 450m north-east of wreck 71334. | |
| 71324 | Seafloor disturbance | 466673 | 5870988 | A2 | 14.6 | 10.3 | 0.5 | - | Patch of seafloor disturbance. Comprised of irregularly shaped dark reflectors, some with slight height. One particularly distinct feature in its centre, measuring 4.9 x 0.9m, with a height of 0.5m. Some bright reflectors identified. Possible linear extending across the sandwaves. Observed in the MBES data as an indistinct rounded mound with a slight surrounding build-up (16 x 14 x 0.7m). | |
| 71325 | Magnetic | 470932 | 5870985 | A1 | - | - | - | 1127 | Very large dipolar anomaly only identified on one survey line. Indicative of possible substantial substantial buried ferrous debris. Located 245m north-east of wreck 71334. | |
| 71326 | Magnetic | 470807 | 5870969 | A2 | - | - | - | 92 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. Located 105m north-east of wreck 71334. | |
| 71327 | Dark reflector | 463349 | 5870964 | A2 | 6.4 | 0.6 | 0.5 | - | Thin rounded edge of an object with corresponding bright shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71328 | Magnetic | 470473 | 5870947 | A2 | - | - | - | 113 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. Located 255m north-west of wreck 71334. | |
| 71329 | Bright reflector | 464869 | 5870908 | A2 | 4.2 | 1.9 | 0 | - | Small, irregular bright reflector identified in an area of megaripples. Possibly a natural feature however looks quite distinct. | |
| 71330 | Magnetic | 465967 | 5870899 | A2 | - | - | - | 67 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71331 | Dark reflector | 463715 | 5870879 | A2 | 2.9 | 0.6 | 0.2 | - | A linear dark reflector, slightly tapered in the centre and with a bright shadow, located on an uneven sandwave rich area of the seabed. | |
| 71332 | Debris | 470686 | 5870865 | A1 | 4.6 | 1.8 | 0.3 | - | A long and thick curvilinear dark reflector with a bright shadow, likely debris and possibly related to nearby wreckage. Feature may be ferrous but any magnetic anomaly here is likely to be masked by the very large anomaly associated with the main area of wreckage 71334. | |
| 71333 | Debris | 470763 | 5870863 | A1 | 5.3 | 0.4 | 0.1 | - | A long, thin and distinct dark reflector with a dull shadow, located at the edge of the range and may be slightly stretched. Possibly part of the wreckage 71334 however, due to the quality of the data it is difficult to discern whether this is the case. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71334 | Wreck | 470730 | 5870846 | A1 | 54.0 | 41.2 | 0.6 | 5974 | Large spread of debris comprising mainly linear and curvilinear thin dark reflectors with height, longest is 12m, could be highly broken up or partially buried wreckage. Identified as a very large magnetic anomaly on the magnetometer data, indicating a substantial quantity of ferrous material. Magnetic anomaly is noisy and widely spaced, possible slight positioning error between lines of data, or possible indication of buried material extending beyond the boundaries identified on the sonar data. Identified by UKHO as a nondangerous wreck, well buried, almost flush with the seabed. Observed in MBES data as irregular mound within an area of sandwaves aligned northeast to south-west, measuring 28 x 18m. | 11190 (UKHO) |
| 71335 | Magnetic | 470880 | 5870838 | A2 | - | - | - | 175 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. Located 135m east from wreck 71334. | |
| 71336 | Debris | 470736 | 5870812 | A1 | 3.6 | 0.2 | 0.2 | - | A long and very thin discreet dark reflector. Feature has a slight shadow and is located in sandwaves, possibly debris related to wreck 71334 (35m to the north). | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71337 | Dark reflector | 465168 | 5870750 | A2 | 7.0 | 0.8 | 0 | - | Slightly curved dark reflector identified in an area of megaripples. No discernible height. Possibly natural however looks a little more distinct. | |
| 71338 | Magnetic | 470732 | 5870708 | A2 | - | - | - | 92 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. Located 120m east of wreck 71334. | |
| 71339 | Bright reflector | 466335 | 5870354 | A2 | 8.2 | 2.2 | 0 | - | Series of three, slightly oval bright reflectors in a row. Image possibly distorted by movement of the sonar fish. | |
| 71340 | Magnetic | 471050 | 5869966 | A2 | - | - | - | 57 | Medium dipole anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71341 | Dark reflector | 464209 | 5869963 | A2 | 3.0 | 1.2 | 0.1 | - | A distinct rectangular shaped dark reflector with a bright but short shadow. | |
| 71342 | Dark reflector | 469214 | 5869852 | A2 | 4.0 | 2.3 | 0 | - | A medium sized very distinctive rounded dark reflector with no shadow located within sandwaves. | |
| 71343 | Dark reflector | 464015 | 5869754 | A2 | 8.1 | 0.9 | 0.6 | - | A long, thin and curvilinear dark reflector with a large and bright shadow, located in sandwaves and possibly related to nearby dark reflector feature 71344. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71344 | Dark reflector | 464025 | 5869733 | A2 | 5.1 | 1.4 | 0.4 | - | A slightly jagged dark reflector with a shadow, located within sandwaves. The full extent may be covered. Possibly related to nearby dark reflector feature 71343. | |
| 71345 | Dark reflector | 461224 | 5869547 | A2 | 6.6 | 1.0 | 0.2 | - | Small thin object with bright shadow, distorted at one end. | |
| 71346 | Dark reflector | 462783 | 5869346 | A2 | 2.7 | 0.5 | 0.1 | - | A long and thin linear dark reflector with a short shadow, indistinct anomaly. | |
| 71347 | Bright reflector | 463783 | 5869207 | A2 | 9.6 | 4.0 | 0 | - | A large bright reflector anomaly, looks anthropogenic with a fanned profile shape, located within sandwaves. | |
| 71348 | Magnetic | 463241 | 5868689 | A2 | - | - | - | 51 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71349 | Bright reflector | 467825 | 5868655 | A2 | 9.2 | 1.7 | 0 | - | Slightly rectangular bright reflector identified in an area of megaripples. Possibly part of a natural formation however looks relatively distinct. | |
| 71350 | Magnetic | 460521 | 5868531 | A2 | - | - | - | 620 | Large asymmetric dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71351 | Dark reflector | 459422 | 5868511 | A2 | 2.7 | 0.3 | 0.3 | - | An indistinct but long and thin dark reflector with a short but bright shadow, may be associated with nearby dark reflector 71352 and debris field 71353. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71352 | Debris | 459417 | 5868507 | A2 | 4.3 | 3.0 | 0 | 84 | An indistinct dark reflector that may be associated or part of debris field on opposite channel 71353. An irregular shaped feature that may be buried and with no obvious shadow. Identified approximately 10m east south-east of a magnetic anomaly measuring 8nT, however difficult to discern which feature, if any, it is associated to. | |
| 71353 | Debris field | 459393 | 5868497 | A2 | 25.2 | 12.3 | 0.3 | 84 | Possible debris field, with several small dark reflectors with height, identified on two lines. One large piece of debris, a rounded dark reflector with indistinct curvilinear dark reflectors surrounding it, or possibly partially buried pieces, object has some shadow visible, possibly some associated debris on other channel (71352). Identified approximately 10m south-west of a magnetic anomaly measuring 8nT, however difficult to discern which feature, if any, it is associated with. | |
| 71354 | Dark reflector | 469281 | 5868494 | A2 | 7.8 | 2.5 | 0.6 | - | Poorly defined dark reflector, not particularly distinct, with a broad shadow. Identified in an area of megaripples. Possibly a natural feature. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71355 | Dark reflector | 464179 | 5868285 | A2 | 10.3 | 6.3 | 0.2 | - | Large dark reflector that appears broken up or partially buried by sands. The feature has a thick and distinct curvilinear edge and smaller dark reflectors within and bright shadows, has some possible scouring orientated east and measuring 6m. | |
| 71356 | Magnetic | 470801 | 5868241 | A2 | - | - | - | 586 | Large negative monopole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71357 | Dark reflector | 466335 | 5868205 | A2 | 8.9 | 5.5 | 0 | - | Slightly oval dark reflector with a brighter reflector in the centre. Identified in an area of megaripples, possibly a natural feature. | |
| 71358 | Bright reflector | 464400 | 5868104 | A2 | 5.3 | 4.4 | 0 | - | A distinct bulbous bright reflector with a slight dark reflector outline and a possible bright reflector linear object attached, located within sandwaves. | |
| 71359 | Magnetic | 466645 | 5867823 | A2 | - | - | - | 122 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71360 | Dark reflector | 469581 | 5867798 | A2 | 4.3 | 3.1 | 0.3 | - | Poorly defined dark reflector, possibly with a slight shadow. Some possible disturbance to surrounding sediment. Possibly a natural feature however looks a little anomalous. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71361 | Debris field | 465600 | 5867662 | A2 | 40.8 | 15.3 | 0.6 | - | A large area of partially buried debris features, a structural looking crossed linear dark reflector is visible in parts with bright shadows and smaller possible associated debris in the sands surrounding the feature. Not visible in the bathymetry data. | |
| 71362 | Debris | 465576 | 5867598 | A2 | 20.1 | 0.9 | 0.2 | - | A very long and thin slightly curvilinear shaped dark reflector with a bright, short shadow, located in sandwaves and may be partially buried debris. | |
| 71363 | Bright reflector | 468278 | 5867476 | A2 | 12.3 | 6.0 | 0 | - | Elongated bright reflector, appears to be an 'x' shape. Not particularly distinct. | |
| 71364 | Dark reflector | 467225 | 5867314 | A2 | 5.8 | 0.8 | 0.4 | - | Elongated dark reflector with slight height. Not particularly distinct. Identified in an area of megaripples, possibly a natural feature. | |
| 71365 | Dark reflector | 459025 | 5867120 | A2 | 3.0 | 0.7 | 0.4 | - | A distinct crescent shaped dark reflector with a bright shadow, located within sandwaves, isolated feature. | |
| 71366 | Dark reflector | 468502 | 5867011 | A2 | 5.0 | 2.8 | 0.6 | - | Poorly defined dark reflector with an irregular shadow. Feature identified towards the limit of the data therefore hard to discern. | |
| 71367 | Rope/chain | 465416 | 5867008 | A2 | 12.7 | 0.6 | 0.1 | - | A partially buried or broken up thin linear dark reflector with a shadow located within sandwaves. Quite distinct possible rope or chain. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71368 | Dark reflector | 469839 | 5866908 | A2 | 7.7 | 1.6 | 0.6 | - | Poorly defined, elongated dark reflector with a very slight shadow. Identified in an area of megaripples. | |
| 71369 | Dark reflector | 464095 | 5866854 | A2 | 4.5 | 0.7 | 0.1 | - | A long and thick linear dark reflector with a short and bright shadow, distinct anomaly within large sandwaves. | |
| 71370 | Dark reflector | 466587 | 5866795 | A2 | 2.7 | 0.5 | 0.2 | - | A distinct and slightly curvilinear dark reflector with a bright shadow, located within sandwaves. | |
| 71371 | Magnetic | 469685 | 5866793 | A2 | - | - | - | 218 | Large positive monopole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71372 | Dark reflector | 470665 | 5866788 | A2 | 5.8 | 1.2 | 0 | - | A large and slightly oval shaped distinct dark reflector with no shadow, distinct anomaly within sandwaves. | |
| 71373 | Seafloor disturbance | 462025 | 5866580 | A2 | 20.5 | 11.1 | 0 | - | Small patch of disturbed seafloor comprised several dark reflectors. Not particularly distinct however looks a little anomalous. Observed in the MBES data as a small irregular mound within area of sandwaves (18 x 17 x 1.1m). | |
| 71374 | Debris | 463190 | 5866253 | A2 | 16.2 | 0.8 | 0 | - | Straight, linear dark reflector identified in an area of megaripples. Not particularly distinct, possibly a natural feature however appears to be perpendicular to the natural orientation of the ripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71375 | Debris | 457509 | 5866051 | A2 | 7.4 | 1.6 | 0.2 | - | An indistinct possible large piece of debris, a cross shaped dark reflector with shadows in parts, located on the edge of sandwaves. | |
| 71376 | Dark reflector | 466574 | 5865877 | A2 | 2.8 | 0.2 | 0.2 | - | An indistinct linear dark reflector with a bright shadow, situated on a sandwave and may be partially buried. | |
| 71377 | Recorded Obstruction | 467513 | 5865872 | А3 | - | - | - | - | UKHO have a record of an area of foul ground however nothing anthropogenic was identified on the geophysical data. | 11236 (UKHO) |
| 71378 | Seafloor Disturbance | 454526 | 5865807 | A2 | 10.9 | 10.6 | 0 | - | An anomalous area of small bright and dark reflectors. Has a rather speckled appearance. In area of rippled seabed. | |
| 71379 | Dark reflector | 469084 | 5865720 | A2 | 6.9 | 0.2 | 0.1 | - | Straight, narrow dark reflector with a slight shadow. Not particularly distinct. | |
| 71380 | Dark reflector | 462262 | 5865503 | A2 | 6.9 | 2.6 | 0.6 | - | Elongated, irregularly shaped dark reflector with a slight shadow. Possibly a natural feature or item of debris. | |
| 71381 | Magnetic | 456149 | 5865143 | A2 | - | - | - | 62 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71382 | Dark reflector | 464999 | 5865023 | A2 | 7.9 | 0.8 | 0.5 | - | A long and thick linear dark reflector with a large and bright shadow, looks anthropogenic within large sandwaves. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71383 | Debris | 462861 | 5864962 | A2 | 4.1 | 3.2 | 2.2 | - | Small oval patch of disturbed seafloor around a distinct, angular dark reflector with height in its centre (disturbed seabed measures 20.4 x 7.4m). UKHO describes feature as a low mound, possibly a wellhead however with no associated magnetic anomaly. Observed in the MBES data as a small sub-rounded object (7 x 6 x 1.7m) within a slight depression with some scour to the north-west. No charted wellheads or pipelines here. | 11235 (UKHO) |
| 71384 | Dark reflector | 467186 | 5864794 | A2 | 5.2 | 0.2 | 0.1 | - | A long and thin distinct linear dark reflector with a bright shadow located within sandwaves. | |
| 71385 | Dark reflector | 458836 | 5864552 | A2 | 4.7 | 2.8 | 0 | - | A large, distinct and isolated rectangular shaped dark reflector with no shadow, looks anomalous to the surrounding seabed. | |
| 71386 | Dark reflector | 456581 | 5864541 | A2 | 7.7 | 1.7 | 0.6 | - | Indistinct feature with a clear and bright shadow. Located on a rippled seabed. | |
| 71387 | Dark reflector | 467740 | 5864536 | A2 | 4.8 | 2.2 | 0 | - | A large and distinct oval shaped dark reflector with no shadow, located on the edge of a sandwave. Isolated feature. | |
| 71388 | Magnetic | 459359 | 5864415 | A2 | - | - | - | 34 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71389 | Dark reflector | 459434 | 5864415 | A2 | 2.3 | 0.5 | 0 | - | A linear dark reflector with no shadow, located within sandwaves, isolated and distinct feature. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71390 | Dark reflector | 462250 | 5863977 | A2 | 11.3 | 0.7 | 0.2 | - | A very long and thin linear dark reflector with a slight shadow visible, lying within sandwaves this looks anthropogenic rather than part of them. | |
| 71391 | Bright reflector | 463556 | 5863945 | A2 | 8.8 | 1.5 | 0 | - | Elongated bright reflector identified in an area of megaripples. Possibly part of a natural feature however looks quite distinct. | |
| 71392 | Bright reflector | 470190 | 5863857 | A2 | 4.6 | 3.2 | 0 | - | 'L' shaped bright reflector, close to other, similar bright reflectors. Possibly part of a natural feature. | |
| 71393 | Dark reflector | 463009 | 5863847 | A2 | 13.9 | 0.8 | 0 | - | Short, slightly bent linear dark reflector. No discernible height. Possibly natural however looks slightly more distinct. | |
| 71394 | Dark reflector | 460449 | 5863844 | A2 | 7.8 | 2.1 | 0.3 | - | Three rounded small dark reflectors aligned with a shadow with a thick linear (5.2m length) dark reflector with no shadow attached to this. | |
| 71395 | Seafloor disturbance | 458042 | 5863627 | A2 | 17.6 | 4.1 | 0.9 | - | A large feature with a very distinct and large area of shadows. The dark reflectors are vaguely visible as thin curvilinear features, there is a main piece with two linears coming off, one bright reflector and one thin dark reflector with a shadow. | |
| 71396 | Dark reflector | 455890 | 5863588 | A2 | 10.5 | 1.5 | 0.4 | - | Elliptical object which appears across sand ripples. Some slight varying bright shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71397 | Dark reflector | 469886 | 5863181 | A2 | 3.1 | 1.5 | 0.5 | - | Small rounded dark reflector with a broad, irregular shadow. Feature is not particularly distinct. | |
| 71398 | Rope/chain | 470616 | 5862905 | A2 | 44.4 | 0.7 | 0 | - | Curvilinear dark reflector, with a bright reflector at the front in the central section. Feature not always particularly distinct. Possible rope or chain. | |
| 71399 | Magnetic | 461333 | 5862863 | A2 | - | - | - | 87 | Distinct medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71400 | Debris | 466420 | 5862227 | A2 | 10.1 | 2.4 | 0.4 | - | A large possible piece of debris, a rounded and hollow dark reflector with a linear piece attached to this, has a bright reflector shadow and possibly in a depression. Located within sandwaves. | |
| 71401 | Magnetic | 463131 | 5862213 | A2 | - | - | - | 480 | Large asymmetric dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71402 | Dark reflector | 465775 | 5862092 | A2 | 7.1 | 0.4 | 0.1 | - | Small, slightly curved elongated dark reflector with a slight shadow. | |
| 71403 | Magnetic | 463049 | 5862063 | A2 | - | - | - | 44 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71404 | Dark reflector | 465137 | 5862030 | A2 | 15.0 | 1.5 | 0.6 | - | Slightly wavy linear dark reflector with a broad shadow. Identified in an area of megaripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71405 | Debris field | 465303 | 5861937 | A2 | 23.7 | 16.9 | 0.5 | - | Small patch of possible debris features comprising several dark reflectors of different shapes with height. Identified in an area of megaripples. | |
| 71406 | Magnetic | 462347 | 5861921 | A2 | - | - | - | 58 | Medium distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71407 | Dark reflector | 470782 | 5861681 | A2 | 3.8 | 2.3 | 0.5 | - | Poorly defined dark reflector with a relatively distinct, irregular shadow. | |
| 71408 | Dark reflector | 469247 | 5861598 | A2 | 5.8 | 2.8 | 0.5 | - | An indistinct large dark reflector with a shadow in parts, appears broken up or partially buried by sands, appears to have a rounded dark reflector with smaller anomalies joined to this. | |
| 71409 | Seafloor disturbance | 459980 | 5861546 | A2 | 22.0 | 10.2 | 0.6 | - | Discrete area of small dark reflectors of varying shapes with varying height shadows. | |
| 71410 | Dark reflector | 456808 | 5861509 | A2 | 4.2 | 0.3 | 0.1 | - | Distinct linear object with height in area of irregular seabed. | |
| 71411 | Dark reflector | 458062 | 5861390 | A2 | 2.6 | 0.9 | 0.3 | - | Rather indistinct feature with height and scour. | |
| 71412 | Debris field | 462554 | 5861336 | A2 | 22.2 | 9.8 | 0.5 | 26 | Large spread of possible debris located within sandwaves, approximately 9 dark reflectors of various shapes and sizes, the largest measures 3.8 x 2m. The full extent of this debris may be buried by sands. Identified on the magnetic data as a small dipole indicating some ferrous material. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71413 | Dark reflector | 470441 | 5861228 | A2 | 4.7 | 1.0 | 0.2 | - | Poorly defined straight, elongated dark reflector with a very faint shadow. Identified in an area of megaipples. | |
| 71414 | Dark reflector | 459229 | 5860911 | A2 | 31.2 | 0.8 | 0 | - | A long, thin and slightly curvilinear dark reflector with no shadow. At far extent of data. | |
| 71415 | Magnetic | 457611 | 5860895 | A2 | - | - | - | 107 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71416 | Seafloor disturbance | 458624 | 5860621 | A2 | 11.6 | 10.5 | 0.4 | - | Sub-rounded area of dark and bright reflectors. Appears indistinct with corresponding rounded bright shadow. | |
| 71417 | Dark reflector | 465118 | 5860542 | A2 | 4.8 | 1.6 | 0 | - | Elongated dark reflector, poorly defined. | |
| 71418 | Debris field | 463437 | 5860495 | A2 | 40.1 | 8.2 | 0.3 | - | A group of parallel curvilinear dark reflectors with bright shadows in a triangular alignment, approximately six at the widest point though very indistinct, possibly buried by sandwaves. | |
| 71419 | Dark reflector | 456525 | 5860463 | A2 | 4.9 | 0.8 | 0.4 | - | Small linear item with height near 71420. In an area of sandwaves. | |
| 71420 | Dark reflector | 456530 | 5860457 | A2 | 4.8 | 0.5 | 0.6 | - | Rather indistinct small linear feature with height in area of small sandwaves, close to dark reflector 71419 | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71421 | Debris field | 463311 | 5859642 | A2 | 17.5 | 6.2 | 0.3 | - | Large spread of possible debris, including an irregular oval shaped dark reflector hollow anomaly. Features don't look joined up so may be partially buried by sands, some have shadows and some not. Looks to be situated in an area of disturbed seabed. | |
| 71422 | Dark reflector | 463323 | 5859580 | A2 | 3.5 | 1.8 | 0.2 | - | A medium sized dark reflector with a small shadow that does not appear to be solid, may be slightly buried by sands or broken up. | |
| 71423 | Dark reflector | 457700 | 5859220 | A2 | 6.6 | 0.6 | 0 | - | A thin curvilinear dark reflector feature, isolated object. | |
| 71424 | Dark reflector | 467511 | 5859031 | A2 | 10.2 | 3.1 | 0.6 | - | Slightly rectangular dark reflector with a bright reflector in the centre and a broad shadow. Identified in an area of megaripples. | |
| 71425 | Debris | 463547 | 5859014 | A2 | 5.7 | 0.7 | 0.3 | - | A distinct long and thin linear dark reflector with a dull shadow, distinct feature lying perpendicular to the sandwaves. | |
| 71426 | Debris | 458485 | 5858743 | A2 | 5.4 | 0.7 | 0.2 | - | Distinct linear dark reflector with height. Possibly slightly stretched data here. | |
| 71427 | Seafloor disturbance | 459917 | 5858607 | A2 | 21.1 | 8.0 | 0 | - | Oval shaped area of disturbed seabed. Possibly contains some debris. | |
| 71428 | Debris field | 459669 | 5858243 | A2 | 41.7 | 9.6 | 0.7 | - | A large debris field. Contains mostly linear debris. In area of rippled seabed. Some bright reflectors. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71429 | Dark reflector | 467349 | 5858041 | A2 | 6.4 | 1.0 | 0.4 | - | Elongated dark reflector, bent round in a slight 'v' shape, with a distinct shadow. Identified in an area of megaripples. | |
| 71430 | Dark reflector | 463366 | 5857745 | A2 | 4.9 | 0.6 | 0.4 | - | A long thin and slightly curvilinear dark reflector with a bright shadow, located at the edge of a sandwave. | |
| 71431 | Dark reflector | 459404 | 5857717 | A2 | 5.1 | 0.8 | 0 | - | Two small dark reflectors situated next to each other. | |
| 71432 | Dark reflector | 468081 | 5857433 | A2 | 3.8 | 1.5 | 0.5 | - | Small round dark reflector with a bright reflector in its centre. Feature appears to extend out. Contact has a distinct, relatively broad shadow, identified in an area of megaripples. | |
| 71433 | Debris field | 463740 | 5857305 | A2 | 12.6 | 3.1 | 0.3 | - | A large spread of small dark reflectors, some with shadows, close together within sandwaves, possible debris field. | |
| 71434 | Seafloor Disturbance | 460065 | 5857241 | A2 | 7.1 | 2.8 | 0 | - | Depression or scour containing possible debris. Bright reflector on the near side, backed by a dark reflector. | |
| 71435 | Magnetic | 469435 | 5857207 | A2 | - | - | - | 120 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71436 | Dark reflector | 458818 | 5857042 | A2 | 5.4 | 1.2 | 0 | - | Rather indistinct elongate feature. Possible scouring around one end. In area of rippled seabed. | |
| 71437 | Seafloor disturbance | 459385 | 5856973 | A2 | 20.5 | 10.2 | 0 | - | Irregularly shaped area of bright and dark reflectors. Appears situated at one end of a patch of coarser sediment. Possibly contains debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| | | | | | | | | | A very distinct thick linear dark | |
| 71438 | Dark reflector | 462846 | 5856794 | A2 | 3.8 | 0.5 | 0.2 | - | reflector with a bright shadow lying | |
| | | | | | | | | | perpendicular to the sandwaves. | |
| 71439 | Bright reflector | 464942 | 5856502 | A2 | 4.3 | 0.2 | 0 | _ | Small straight thin object with no | |
| 71433 | Bright reflector | 404342 | 3030302 | 74 | 7.5 | 0.2 | U | | obvious dark reflector or shadow. | |
| | | | | | | | | | Small and thin linear feature with | |
| 71440 | Dark reflector | 459416 | 5856382 | A2 | 4.2 | 0.3 | 0.2 | - | height. Possible debris. Isolated | |
| | | | | | | | | | object on rippled seabed. | |
| | | | | | | | | | Linear bright reflector feature with no | |
| 71441 | Bright reflector | 460814 | 5856368 | A2 | 6.5 | 1.0 | 0 | _ | apparent object in front. Seabed is | |
| /1441 | Dright reflector | 400014 | 3030300 | 74 | 0.5 | 1.0 | Ü | | irregular with ripples and shadows | |
| | | | | | | | | | nearby but this one looks anomalous. | |
| | | | | | | | | | An indistinct linear dark reflector with | |
| 71442 | Dark reflector | 470099 | 5856157 | A2 | 5.5 | 0.7 | 0.3 | - | a large pointed shadow, located | |
| | | | | | | | | | within sandwaves. | |
| | | | | | | | | | Medium positive monopole only | |
| 71443 | Magnetic | 469821 | 5856125 | A2 | _ | _ | _ | 51 | identified on one survey line. | |
| 71443 | Widgifette | 403021 | 3030123 | 712 | | | | 31 | Indicative of possible buried ferrous | |
| | | | | | | | | | debris. | |
| | | | | | | | | | Possible area of seafloor disturbance, | |
| | | | | | | | | | may just be a localised area of | |
| 71444 | Seafloor Disturbance | 461437 | 5855625 | A2 | 28.5 | 18.2 | 0 | - | irregular seabed but it is anomalous | |
| | | | | | | | | | here. Consists of many small bright | |
| | | | | | | | | | reflectors and some dark reflectors. | |
| | | | | | | | | | Medium dipole only identified on one | |
| 71445 | Magnetic | 462945 | 5855147 | A2 | - | - | - | 177 | survey line. Indicative of possible | |
| | | | | | | | | | buried ferrous debris. | |
| | | | | | | | | | A long, thin and distinct linear dark | |
| 71446 | Dark reflector | 463880 | 5855077 | A2 | 4.4 | 0.4 | 0.2 | - | reflector with a bright shadow, lying | |
| | | | | | | | | | perpendicular to sandwaves. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71447 | Seafloor disturbance | 467803 | 5854603 | A2 | 20.2 | 5.9 | 0.3 | - | Elliptical area of dark and small reflectors. Seems off the angle of sandwaves. | |
| 71448 | Dark reflector | 460687 | 5854541 | A2 | 3.4 | 0.6 | 0.2 | - | Linear feature with possible height located on an uneven area of the seabed and 6m from 71449. | |
| 71449 | Dark reflector | 460690 | 5854535 | A2 | 4.5 | 0.8 | 0.3 | - | An elongate object with height, located 6m from 71448. | |
| 71450 | Bright reflector | 460711 | 5854518 | A2 | 3.7 | 1.0 | 0 | - | An elongate bright reflector feature with no obvious object in front. | |
| 71451 | Dark reflector | 469491 | 5854489 | A2 | 3.6 | 2.0 | 0.6 | - | Dark reflector with a relatively broad shadow. | |
| 71452 | Debris | 464769 | 5854398 | A2 | 11.9 | 4.5 | 0.9 | - | A large piece of possible debris, an irregular triangle shaped dark reflector with a bright, pointed shadow, isolated object within sandwaves, has some slight scouring orientated north and measuring 9m. Observed in the MBES data as a small sub-rounded object within a slight depression to the south-west of a possible cable. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71453 | Debris field | 463732 | 5854346 | A2 | 33.5 | 17.1 | 0.3 | 239 | A large scatter of potential debris, approximately 10 dark reflector anomalies, some with shadows, rounded, linear and square objects visible within an area of sandwaves and further anomalies may be buried. The largest is 4.1 x 2.5m. Has a large magnetic anomaly associated indicating ferrous debris. Observed as an irregular mound (26 x 10 x 0.5m) in the MBES data. | |
| 71454 | Dark reflector | 460370 | 5854342 | A2 | 3.4 | 1.0 | 0.5 | - | An elongate dark reflector with variable height indicated by shadow. | |
| 71455 | Debris | 463706 | 5854335 | A2 | 1.7 | 0.5 | 1.1 | 239 | Possible piece of debris, very thin and long dark reflector with a bright distinct shadow, located 27m southwest from possible debris field 71453 and may be related. Has a large magnetic anomaly associated indicating ferrous debris. Observed as a small round mound in the MBES data measuring 3 x 3 x 0.2m. | |
| 71456 | Debris | 463481 | 5853862 | A2 | 2.9 | 1.3 | 0.4 | 38 | A rectangular shaped dark reflector with a bright and tapered shadow, isolated and distinct feature on a sandwave rich area of the seabed. Has a small magnetic anomaly associated indicating ferrous debris. | |
| 71457 | Magnetic | 463503 | 5853825 | A2 | - | - | - | 43 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71458 | Mound | 465194 | 5853745 | A2 | 21.3 | 7.0 | 0.5 | - | A large object visible as a slightly curvilinear dark reflector that is wider but more indistinct at one end than the other with a large dull shadow. Observed in the MBES data as a long tapering mound of sloping height, aligned north-west to south-east, within sandwaves but on a different alignment. | |
| 71459 | Dark reflector | 465987 | 5853739 | A2 | 3.0 | 0.7 | 0.2 | - | A distinct dark reflector, appears as a rounded dark reflector with a shadow and a very thin linear dark reflector attached to this, located in sandwaves and isolated. | |
| 71460 | Magnetic | 465955 | 5853643 | A2 | - | - | - | 220 | Large dipole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 71461 | Magnetic | 462057 | 5853581 | A2 | - | - | - | 91 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71462 | Debris | 461860 | 5853426 | A2 | 6.7 | 0.7 | 0.2 | - | Curvilinear object with height in area of rippled seabed. | |
| 71463 | Seafloor disturbance | 470959 | 5853148 | A2 | 14.4 | 8.3 | 0 | - | Medium sized, mottled patch of disturbed seafloor identified in an area of megaripples. Possibly a natural feature however looks a little anomalous. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71464 | Seafloor disturbance | 470963 | 5853127 | A2 | 20.5 | 7.3 | 1.1 | - | Large and slightly oval shaped area of disturbed seafloor identified in an area of megaripples. Possibly a natural feature however looks anomalous to the surrounding seabed. | |
| 71465 | Debris | 464915 | 5852959 | A2 | 5.2 | 0.8 | 0.3 | - | A linear alignment of four possible objects close together, only has a shadow at one end of the feature and possibly in a slight depression within an area of sandwaves, possible debris. | |
| 71466 | Dark reflector | 470286 | 5852755 | A2 | 5.5 | 5.2 | 0.4 | - | Angular bent object with slight shadow. Follows sand ripples so could be part of natural feature but looks anomalous. | |
| 71467 | Dark reflector | 470245 | 5852729 | A2 | 9.4 | 6.1 | 0.4 | - | Sub rounded object which looks dappled and some rounded bright reflector. | |
| 71468 | Dark reflector | 470244 | 5852718 | A2 | 3.4 | 2.5 | 0.3 | - | Small angular object with corresponding bright shadow. | |
| 71469 | Debris | 462289 | 5852648 | A2 | 12.5 | 2.8 | 0 | - | A curvilinear feature with no height and possible scouring around it. Located within sandwaves. | |
| 71470 | Dark reflector | 462472 | 5852549 | A2 | 4.4 | 0.4 | 0.3 | - | Long and thin linear object with height, possibly associated with nearby debris field 71471. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71471 | Debris field | 462479 | 5852515 | A2 | 15.7 | 9.0 | 2.4 | - | Area containing several objects with height. Some linear and some more blocky. Identified by UKHO as a possible cable with anchor attached. Observed in the MBES data as a small sub-rounded mound within a possible larger seafloor disturbance. The nearest magnetic survey line is located 47m away and this may explain why, if it is an anchor, there is no magnetic anomaly associated this this feature. | 11246 (UKHO) |
| 71472 | Debris field | 461988 | 5852355 | A2 | 11.8 | 7.8 | 0 | - | Medium sized area containing dark reflectors, some of which are linear. Bright reflectors indicate height or scouring. | |
| 71473 | Dark reflector | 470419 | 5852141 | A2 | 2.5 | 1.7 | 0.9 | - | Irregular dark reflector with a distinct shadow and some possible associated scour. | |
| 71474 | Dark reflector | 470335 | 5852008 | A2 | 7.5 | 2.4 | 0.6 | - | Irregular object, possibly in stretched data, with some bright angular shadow. | |
| 71475 | Debris field | 466763 | 5851999 | A2 | 6.8 | 4.3 | 0.3 | - | An irregular shaped dark reflector with shadows in parts, large object that appears to be broken up or partially buried by sediment, appears to be two crossed linear features and some small, rounded dark reflectors. | |
| 71476 | Magnetic | 470359 | 5851917 | A2 | - | - | - | 52 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------------|------------------|--------------------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71477 | Debris | 469565 | 5851813 | A2 | 5.5 | 2.0 | 0.5 | - | Dark reflector identified within sandwaves, a very distinct curvilinear thick dark reflector with a bright shadow and possibly in a slight depression. Possible non-ferrous item of debris. | |
| 71478 | Debris field Magnetic | 467849 464147 | 5851714 5851155 | A2 A1 | 11.5 | 10.7 | 1.2 | - 4455 | Large spread of possible debris located within large sandwaves and possibly partially buried. Small but distinct dark reflectors with shadows, largest is 1.5 x 0.7m. Observed in the MBES data as an indistinct mound with an apex (50 x 20 x 1m) aligned north-east to south-west. Very large dipole identified on more than one survey line. Indicative of | |
| | e Cable Corridor | 404147 | 3631133 | | _ | | _ | 4433 | possible substantial buried ferrous debris. | |
| 70317 | Debris | 483654 | 5850867 | A2 | 6.0 | 1.3 | 0.6 | - | Observed in 2012 OFTO data. Weakly contrasting and diffuse narrow rectangular anomaly in depression, possibly piece of debris. Associated multibeam bathymetry beam showing slight mound amongst sandwaves but no associated magnetic contact. Not observed in the most recent 2016 dataset and may have since been buried | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70318 | Seafloor disturbance | 483569 | 5847632 | A2 | 9.2 | 4.0 | 0.7 | - | Observed in 2012 OFTO data. Weak, larger diffuse irregular shaped anomaly with height, possibly natural but larger in size than other natural features in area. Distinct depression with mound to the south visible on the multibeam bathymetry. Located approximately 25m north of 70319. No associated magnetic contact. Not observed in the most recent 2016 dataset and may have since been buried. | |
| 70319 | Mound | 483557 | 5847594 | A2 | 9.0 | 7.0 | 0.6 | - | Observed originally in 2012 OFTO data. Weak, larger diffuse irregular shaped anomaly with height, possibly natural but larger in size than other natural features in area. Distinct mound on quiet seafloor with two adjacent depressions separated by central barrier orientated north - south. Larger depression is located to the west of the mound. Located approx. 25m south of 70318. No associated magnetic contact. In the 2016 bathymetry data this is visible as a small mound within natural features/possible dredging scars. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70320 | Debris | 483355 | 5847396 | A2 | 8.0 | 6.0 | 0.3 | - | Observed originally in 2012 OFTO data. Diffuse, large curvilinear anomaly, appears partially buried and with scour, possibly piece of debris. A distinct depression is visible on the multibeam bathymetry. No associated magnetic contact. In the 2016 bathymetry data this is visible as a large object within a depression, slightly rounded shaped feature, has scouring orientated north measuring 25 m. The depression measures 8 m x 6 m | |
| 70321 | Dark reflector | 483255 | 5848355 | A2 | 8.2 | 1.7 | 0 | - | A large dark reflector with no shadow, distinct and irregular shaped anomaly | |
| 70322 | Debris field | 483134 | 5848791 | A2 | 38.3 | 6.0 | 0.2 | - | A very large oval shaped area of possible debris. Indistinct group of bright and dark reflectors that appear to be partially buried by sands. It has a long rope or chain coming off the feature orientated to the north. Not visible in bathymetry data. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70323 | Debris | 483073 | 5848816 | A2 | 6.5 | 2.1 | 0.2 | - | Observed in 2012 OFTO data. Approximately oval shaped anomaly with three short linear dark reflectors on the outer edge with an inner area of curvilinear bright reflector, possibly non-ferrous piece of debris as there is no associated magnetic contact. Not observed in the most recent 2016 dataset and may have since been buried | |
| 70324 | Magnetic | 483028 | 5855129 | A2 | - | - | - | 27 | Observed in 2012 OFTO data. Small distinct anomaly located amongst sandwaves. No associated multibeam bathymetry or side scan sonar contact. Not observed in the most recent 2016 dataset however retained given magnetometer line spacing. | |
| 70325 | Magnetic | 482987 | 5849995 | A2 | - | - | - | 39 | Small anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70326 | Magnetic | 482932 | 5851879 | A2 | - | - | - | 157 | Observed in 2012 OFTO data. Medium sized distinct negative anomaly located amongst sandwaves. No associated multibeam bathymetry or side scan sonar contact. Not observed in the most recent 2016 dataset however retained given magnetometer line spacing. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70327 | Dark Reflector | 482777 | 5846618 | A2 | 7.2 | 2.3 | 0 | - | Observed in 2012 OFTO data. Weak, partially buried oval shaped anomaly. No associated magnetic contact. Not observed in the most recent 2016 dataset and may have since been buried | |
| 70328 | Dark reflector | 482605 | 5852302 | A2 | 4.2 | 0.4 | 0.2 | - | A long and thin distinct dark reflector with a dull tapered shadow, located on an area of sandwaves | |
| 70329 | Debris | 482491 | 5849286 | A2 | 2.5 | 1.4 | 0 | - | A triangular shaped bright reflector, located in an area of sandwaves small and very distinct anomaly, possibly debris | |
| 70330 | Magnetic | 482393 | 5851869 | A2 | - | - | - | 33 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70331 | Bright reflector | 482374 | 5848830 | A2 | 7.2 | 1.9 | 0 | - | Large oval shaped bright reflector, distinct anomaly. | |
| 70332 | Bright reflector | 482368 | 5849369 | A2 | 5.6 | 1.1 | 0 | - | Slightly tapered linear shaped bright reflector, possibly part of sandwaves though looks to be quite isolated from them. | |
| 70333 | Magnetic | 482302 | 5849420 | A2 | - | - | - | 62 | Observed in 2012 OFTO data. Distinct dipole anomaly located amongst sandwaves. No associated multibeam bathymetry or side scan sonar contact. Not observed in the most recent 2016 dataset however retained given magnetometer line spacing. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70334 | Dark reflector | 482146 | 5850322 | A2 | 7.8 | 2.0 | 0.7 | - | One or possibly two dark reflectors directly next to one another with very bright shadows. Very distinctive anomaly located within sandwaves. | |
| 70335 | Debris field | 482142 | 5850334 | A2 | 8.6 | 5.5 | 0.3 | - | A medium sized possible debris field located within sandwaves. The anomaly comprises indistinct dark reflectors with bright shadows, located on the crest of a sandwave. Possible area of gravel | |
| 70336 | Debris field | 482107 | 5848737 | A2 | 9.1 | 4.1 | 0.2 | - | A possible area of debris or perhaps partially buried debris. A half butterfly shaped dark reflector with bright shadows situated in a depression. The full extent is possibly buried, may just be natural | |
| 70337 | Magnetic | 481997 | 5848895 | A2 | - | - | - | 41 | Observed in 2012 OFTO data. Distinct dipole anomaly located amongst sandwaves. No associated multibeam bathymetry or side scan sonar contact. Not observed in the most recent 2016 dataset however retained given magnetometer line spacing. | |
| 70338 | Magnetic | 481631 | 5849897 | A2 | - | - | - | 29 | Observed in 2012 OFTO data. A broad irregular magnetic anomaly. No associated multibeam bathymetry or side scan sonar contact. Not observed in the most recent 2016 dataset however retained given magnetometer line spacing. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70339 | Magnetic | 480753 | 5849174 | A2 | - | - | - | 52 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70340 | Mound | 480053 | 5849399 | A2 | 4.2 | 3.8 | 0.7 | - | A large oval shaped hollow dark reflector with a large but dull shadow, located in sandwaves and the full extent may be hidden, there is some scouring visible. Identified in the bathymetry data as a small but distinct mound | |
| 70341 | Dark reflector | 477907 | 5849684 | A2 | 7.3 | 0.8 | 0 | - | A long, thin and curvilinear dark reflector with no shadow. Looks slightly more anthropogenic than part of a sandwave | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70342 | Wreck | 477521 | 5849048 | A1 | 33.0 | 14.0 | 1.0 | 50 | Very indistinct area of wreckage. An oval shaped area of bright and dark reflectors, some with shadows and some without, lying perpendicular to sandwaves. There is very little detail visible to identify this as a wreck. In the bathymetry data a long and thick linear mound is visible, lying slightly perpendicular to the large sandwaves and may be masked by sediment, it is aligned north-east to south-west and has faint scouring orientated north and measuring 50m. Has a medium magnetic anomaly associated, though nearest mag line is 27m away. Associated with UKHO record (11091) of Golden Oriole (possibly), a British trawler Sunk 22/01/1915. Previously observed in 2014 as well broken-up with dimensions of 26m x 8.3m x 1.4m. | 11091 (UKHO) |
| 70343 | Magnetic | 477288 | 5849286 | A2 | - | - | - | 28 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70344 | Debris field | 477130 | 5848283 | A2 | 5.4 | 0.8 | 0.2 | - | Three small dark reflectors with shadow located on the edge of a sandwave, largest measures 1.9 m x 0.7 m. Possibly rocks though not many seen in this area of the seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70345 | Dark reflector | 474764 | 5848339 | A2 | 8.6 | 0.5 | 0.2 | - | A very long and thin linear dark reflector with a bright shadow, feature looks slightly disjointed. Located within sandwaves and full extent may be partially buried | |
| 70346 | Debris field | 473868 | 5847907 | A2 | 11.7 | 0.8 | 0.4 | - | A spread of possible debris comprising three very thin linear dark reflectors with shadows, possibly broken up single piece of debris, full extent may be buried by fine sediments | |
| 70347 | Debris | 473461 | 5847936 | A2 | 4.3 | 0.9 | 0 | - | Medium sized rectangular shaped bright reflector located in between sandwaves, distinctive possible debris feature. | |
| 70348 | Debris field | 472271 | 5848199 | A2 | 11.0 | 3.7 | 0.5 | - | Possible debris field comprising 5+ medium sized dark reflectors with shadows. Curvilinear and linear features, the largest measures 0.4 m x 3.3 m. Located in sandwaves and full extent may be buried. Not visible in bathymetry data. | |
| 70349 | Magnetic | 472004 | 5849266 | A2 | - | - | - | 42 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70350 | Bright reflector | 471930 | 5848358 | A2 | 7.3 | 3.1 | 0 | - | A large half circular shaped bright reflector, located on the edge of a sandwave and may be part of it, though looks larger and more distinctive than surrounding seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70351 | Magnetic | 471821 | 5849407 | A2 | - | - | - | 22 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70352 | Magnetic | 471771 | 5848989 | A2 | - | - | - | 36 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70353 | Dark reflector | 471589 | 5847886 | A2 | 2.1 | 0.7 | 2.1 | - | A small/medium sized rectangular shaped dark reflector with a large, bright and bulbous shadow, very similar to 70354 which is 5 m away | |
| 70354 | Dark reflector | 471584 | 5847884 | A2 | 1.4 | 0.7 | 2.1 | - | A small rectangular shaped dark reflector with a very long, thin and bright shadow, located within sandwaves, very similar to 70353 which is 5 m away | |
| 70355 | Debris | 471567 | 5847880 | A2 | 7.1 | 1.5 | 1.9 | - | A long and thick linear dark reflector with a large shadow, very distinctive feature in an area of sandwaves, possible debris | |
| 70356 | Bright reflector | 471561 | 5850060 | A2 | 8.7 | 1.8 | 0 | - | A large and distinctive bright reflector, appears as two semi-circles aligned, looks highly anthropogenic. | |
| 70357 | Debris | 470982 | 5848241 | A2 | 8.9 | 0.5 | 0 | - | A long and thick linear bright reflector anomaly, looks too straight to be a sandwave, possible debris. | |
| 70358 | Dark reflector | 469971 | 5847765 | A2 | 3.0 | 0.4 | 0 | - | A thin and distinct dark reflector with no shadow, located on the edge of a sandwave. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70359 | Magnetic | 467009 | 5847525 | A2 | - | - | - | 15 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70360 | Wreck | 466386 | 5846784 | A1 | 54.0 | 11.0 | 4.0 | 15867 | An area of wreck debris consisting of a large spread of linear, curvilinear and smaller dark reflectors with shadows located within sandwaves. The full extent of the wreck may be buried. The largest piece measures 5.8m x 1.4m. The wreck is relatively broken up and in poor condition. Large amount of scour visible. Not seen in full in sidescan data as towfish went over the top and not good quality data. In the bathymetry data the wreck is aligned north-east to south-west, it possibly has some debris or broken structure situated directly to the north-east end of the vessel (70361). The wreck stands upright prominently within large sandwaves and has a large amount of scouring orientated north to south and measuring over 300m visible. Very high magnetic anomaly associated. Some possible debris associated. Associated with UKHO record (11093) of HMS Dunoon (possibly), a British minesweeper with original dimensions 70.4m x 8.5m x 2.1m. Sunk by a mine on 30/05/1940. Last observed as relatively intact but damaged in the bows with a length of 62m and a recorded height of 5.2m. | 11093 (UKHO) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70361 | Debris | 466368 | 5846827 | A2 | 6.4 | 1.9 | 0.2 | - | A thick linear dark reflector with a shadow on a rough and uneven area of the seabed. Large piece of possible debris associated with wreck 70360 situated 47 m to the south-east. | |
| 70362 | Magnetic | 465809 | 5847281 | A2 | - | - | - | 52 | Medium dipole identified on more than one survey line Indicative of possible buried ferrous debris. | |
| 70363 | Magnetic | 465267 | 5847174 | A2 | - | - | - | 14 | Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70364 | Magnetic | 464769 | 5846759 | A2 | - | - | - | 6 | Small but distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70365 | Debris | 464150 | 5846800 | A2 | 8.7 | 3.6 | 1.2 | - | A large piece of possible debris, very solid and distinct dark reflector with a short but bright shadow, has some scour associated orientated north and measuring 24 m | |
| 70366 | Magnetic | 464076 | 5846817 | A2 | - | - | - | 31 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70367 | Magnetic | 463601 | 5846121 | A2 | - | - | - | 29 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70368 | Dark reflector | 463238 | 5845318 | A2 | 3.6 | 0.6 | 0.4 | - | A long and thin distinct dark reflector with a large but dull shadow, very distinct anomaly on a rough and uneven area of the seabed, possibly in a slight depression | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70369 | Dark reflector | 463126 | 5845352 | A2 | 3.2 | 2.2 | 0.3 | - | A very distinctive rectangular shaped dark reflector with a dull shadow, feature possibly has some scouring orientated north and measuring 40 m | |
| 70370 | Magnetic | 462912 | 5845478 | A2 | - | - | - | 18 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70371 | Magnetic | 462780 | 5845538 | A2 | - | - | - | 11 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70372 | Dark reflector | 462763 | 5846108 | A2 | 3.8 | 0.7 | 0.5 | - | A medium sized rectangular shaped dark reflector with a bright and tapered shadow, possibly broken in two and located on a sandwave rich are of the seabed | |
| 70373 | Magnetic | 462342 | 5844954 | A2 | - | - | - | 17 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70374 | Debris field | 462243 | 5846617 | A2 | 8.4 | 3.8 | 0.7 | - | A medium sized possible area of debris. Three very distinct and aligned circular dark reflectors with bright, bulbous shadows, with some scouring. The full extent of the features may be buried by sandwaves | |
| 70375 | Dark reflector | 461996 | 5850153 | A2 | 4.2 | 1.3 | 0.6 | - | A distinct medium sized curvilinear shaped dark reflector with a bright, tapered shadow, isolated anomaly with scouring orientated north-west and measuring 50 m | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70376 | Debris | 461852 | 5846402 | A2 | 3.6 | 0.6 | 0.3 | - | A very distinct long and curvilinear shaped dark reflector with a bright shadow, has some slight scour or sediment build up to the north measuring 4.5 m | |
| 70377 | Debris | 461821 | 5845391 | A2 | 8.5 | 0.5 | 0.2 | - | A long and thin linear dark reflector with a bright shadow and situated in a slight depression, located on the edge of a sandwave, possibly debris | |
| 70378 | Magnetic | 461635 | 5851612 | A2 | - | - | - | 9 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70379 | Debris field | 461596 | 5850052 | A2 | 29.0 | 11.0 | 0.5 | - | A large spread of debris comprising six dark reflectors, five of which have shadows. The largest is a long and thin curvilinear feature with dimensions of 22.6 m x 1 m, located in an area of sandwaves and the full extent may be buried. In the bathymetry data this is visible as a large and distinct mound with little height in an area of small sandwaves. Oval shaped and anomalous to the surrounding seabed, there is a slight depression within the mound's centre | |
| 70380 | Debris | 461555 | 5851073 | A2 | 8.8 | 1.6 | 0.1 | - | A curved dark reflector with corresponding curvilinear shadow. Has scouring associated orientated north-west and measuring 32.5 m, possible debris | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70381 | Dark reflector | 461439 | 5851955 | A2 | 12.3 | 1.2 | 0.6 | - | A medium sized curvilinear shaped dark reflector with a bright triangular shaped shadow. Some faint possible scouring orientated north-west and measuring 5.4 m is associated. | |
| 70382 | Magnetic | 461374 | 5850385 | A2 | - | - | - | 23 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70383 | Debris | 461351 | 5850856 | A2 | 5.8 | 0.4 | 0.2 | - | A very distinct, long curvilinear dark reflector with a short but bright shadow and situated in a depression, possible item of debris | |
| 70384 | Dark reflector | 461287 | 5846389 | A2 | 9.0 | 0.5 | 0 | - | A very long and thick linear dark reflector with no shadow. Distinct feature located within sandwaves, looks more anthropogenic than natural. | |
| 70385 | Bright reflector | 461270 | 5850984 | A2 | 17.7 | 2.1 | 0 | - | Possible wide curvilinear shaped bright reflector in poor quality data, does not look like a sandwave. Not visible in bathymetry data. | |
| 70386 | Dark reflector | 461051 | 5847518 | A2 | 2.6 | 0.5 | 0.2 | - | An indistinct thin linear dark reflector with a bright shadow. Isolated anomaly in noisy data | |
| 70387 | Dark reflector | 460834 | 5844988 | A2 | 12.8 | 0.5 | 0 | - | Long and thin linear dark reflector with no shadow, possibly in a slight depression. Not visible in bathymetry data. | |
| 70388 | Magnetic | 460694 | 5847360 | A2 | - | - | - | 37 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70389 | Debris | 460582 | 5851838 | A2 | 5.8 | 0.8 | 0.3 | - | Very distinct dark reflector with a bright shadow, a curvilinear feature distinct and isolated on a sandy and even area of the seabed. Possibly debris | |
| 70390 | Magnetic | 460421 | 5847701 | A2 | - | - | - | 43 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70391 | Dark reflector | 460364 | 5846227 | A2 | 2.4 | 1.2 | 0.3 | - | A small dark reflector with a very bright shadow and sediment build up around its extent. Possibly natural though distinct on a sandy area of the seabed | |
| 70392 | Dark reflector | 460345 | 5851503 | A2 | 6.1 | 1.5 | 0.7 | - | A right angled dark reflector with bright triangular shadow, possibly natural though distinctive and isolated on a sandy area of the seabed | |
| 70393 | Dark reflector | 460314 | 5848410 | A2 | 3.7 | 1.1 | 0.5 | - | A distinct long and curvilinear shaped dark reflector with a bright shadow and situated in a depression, located within sandwaves | |
| 70394 | Dark reflector | 460279 | 5851418 | A2 | 2.4 | 1.5 | 0.3 | - | A distinct rounded dark reflector with a bright shadow. Possibly large rock though quite infrequent on this area of the seabed. Located within sandwaves. | |
| 70395 | Magnetic | 460265 | 5846817 | A2 | - | - | - | 41 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70396 | Debris field | 460236 | 5854038 | A2 | 28.8 | 11.9 | 1.1 | - | Large spread of possible debris. It appears to be a hollow oval shaped indistinct dark reflector with two long and thin curvilinear ropes/chain coming off it, located on a gravelly area of the seabed. | |
| 70397 | Dark reflector | 459916 | 5844318 | A2 | 3.9 | 0.3 | 0.3 | - | A very distinct curvilinear dark reflector with a bright shadow, possibly slightly stretched in data, isolated feature | |
| 70398 | Magnetic | 459845 | 5848062 | A2 | - | - | - | 189 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70399 | Debris field | 459385 | 5845426 | A2 | 9.5 | 8.0 | 2.5 | - | A large, but indistinct spread of possible debris. Thick curvilinear shaped dark reflector with a very large and bright shadow. The feature is situated within sandwaves and may be partially buried. There is some scouring to the south and possible scour or a smaller scatter of debris to the north measuring 14 m. In the bathymetry data this is visible as a medium sized distinct rounded mound with height situated in a depression and with associated scouring 2 m deep, orientated north and measuring 100 m | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70400 | Debris | 459354 | 5845416 | A2 | 3.8 | 2.1 | 0.6 | - | A medium sized angular shaped dark reflector with a thin bright shadow, situated in a depression with scouring orientated to the north and measuring 7.7 m. | |
| 70401 | Magnetic | 457715 | 5844963 | A2 | - | - | - | 57 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70402 | Magnetic | 457658 | 5844953 | A2 | - | - | - | 266 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70403 | Magnetic | 457049 | 5844090 | A2 | - | - | - | 13 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70404 | Magnetic | 456701 | 5844519 | A2 | - | - | - | 64 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70405 | Magnetic | 456350 | 5843541 | A2 | - | - | - | 90 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70406 | Magnetic | 455205 | 5843522 | A2 | - | - | - | 38 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70407 | Bright reflector | 455075 | 5844256 | A2 | 4.0 | 2.7 | 0 | - | A medium sized circular bright reflector feature located on the edge of a sandwave, anomalous to the surrounding seabed. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70408 | Dark reflector | 454424 | 5844932 | A2 | 2.8 | 0.7 | 0 | - | A long and thick linear dark reflector with no shadow, very distinct feature located within sandwaves | |
| 70409 | Debris field | 454152 | 5844749 | A2 | 23.0 | 12.0 | 1.0 | - | A large area of possible debris, appears as a scattering of tiny dark reflectors Possibly partially covered by sands, feature is distinct and anomalous to the surrounding seabed, located within sandwaves which may be disguising the full extent. In the bathymetry this is visible as a large and distinct oval shaped mound situated within small sandwaves. Very distinct and isolated feature. | |
| 70410 | Debris | 454044 | 5844958 | A2 | 3.8 | 1.1 | 0.3 | - | A long and thick curvilinear dark reflector with a shadow. Very distinct feature in an area of sandwaves, possible debris | |
| 70411 | Magnetic | 453482 | 5843765 | A2 | - | - | - | 6 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70412 | Magnetic | 453207 | 5843922 | A2 | - | - | - | 18 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70413 | Debris | 452921 | 5843296 | A2 | 17.8 | 0.8 | 0.0 | - | Broken up or disjointed linear shaped bright reflector feature, large and indistinct anomaly on a sandy area of the seabed, isolated possible debris feature. Not visible in bathymetry data. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70414 | Magnetic | 452700 | 5844836 | A2 | - | - | - | 44 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70415 | Magnetic | 452631 | 5844717 | A2 | - | - | - | 10 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70416 | Magnetic | 452252 | 5843213 | A2 | - | - | - | 6 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70417 | Debris | 452221 | 5842953 | A2 | 4.6 | 0.4 | 0.1 | - | A long and thin distinct linear dark reflector with a bright shadow, isolated possible debris | |
| 70418 | Magnetic | 451919 | 5843240 | A2 | - | - | - | 7 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70419 | Debris field | 450816 | 5843285 | A2 | 19.9 | 17.2 | 0.3 | - | Possible group of debris made up of distinct dark reflectors with shadows, some small circular (1 m x 0.4 m) and larger linear (5 m x 0.4 m) anomalies, approximately 15 in total over a large area. Nothing visible in bathymetry data. | |
| 70420 | Dark reflector | 450806 | 5842974 | A2 | 5.3 | 1.7 | 0.2 | - | An oval shaped dark reflector/circular group of small dark reflectors with shadows, may be a gravel patch or rocks | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70421 | Debris | 450787 | 5842981 | A2 | 4.4 | 0.3 | 0.2 | - | A long and thin linear dark reflector with a bright shadow, located in between sandwaves, possibly linear debris | |
| 70422 | Dark reflector | 450781 | 5842606 | A2 | 3.3 | 1.4 | 0.1 | - | Very distinctive dark reflector with a bright shadow located in between sandwaves, possibly broken in two parts or partially buried in its centre. Rectangular shaped feature | |
| 70423 | Dark reflector | 450781 | 5842981 | A2 | 1.8 | 1.3 | 0.3 | - | A disjointed or partially broken up distinct dark reflector with a bright shadow. Located in between sandwaves, may be natural | |
| 70424 | Magnetic | 450644 | 5842687 | A2 | - | - | - | 79 | Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70425 | Magnetic | 450469 | 5843104 | A2 | - | - | - | 30 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70426 | Magnetic | 450459 | 5842806 | A2 | - | - | - | 19 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70427 | Magnetic | 450457 | 5843861 | A2 | - | - | - | 365 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70428 | Magnetic | 450450 | 5843838 | A2 | - | - | - | 11 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70429 | Magnetic | 450445 | 5844334 | A2 | - | - | - | 9 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70430 | Dark reflector | 450175 | 5844259 | A2 | 2.8 | 0.3 | 0.2 | - | A long and thin linear dark reflector with a dull shadow, situated at the edge of a sandwave but does not look part of them | |
| 70431 | Magnetic | 450129 | 5843224 | A2 | - | - | - | 108 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70432 | Magnetic | 450096 | 5843177 | A2 | - | - | - | 45 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70433 | Magnetic | 450066 | 5843086 | A2 | - | - | - | 58 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70434 | Dark reflector | 450064 | 5842559 | A2 | 3.0 | 0.9 | 0.2 | - | A long and thick rectangular dark reflector with a bright shadow, located in between sandwaves, very distinct feature | |
| 70435 | Dark reflector | 450060 | 5843704 | A2 | 3.5 | 0.8 | 0.3 | - | A long and thin linear dark reflector with a bright shadow, distinct feature located in between sandwaves, tagged mainly due to length, lots of similar but smaller features on this area of the seabed | |
| 70436 | Magnetic | 449995 | 5843028 | A2 | - | - | - | 37 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70437 | Dark reflector | 449882 | 5844269 | A2 | 4.5 | 1.0 | 0.4 | - | A very thin slightly curvilinear dark reflector with a right angled end. Feature has a very bright shadow and is distinct within an area of sandwaves | |
| 70438 | Dark reflector | 449840 | 5844210 | A2 | 3.8 | 0.5 | 1.3 | - | A large curvilinear shaped dark reflector with a bright shadow. Distinct anomaly located within sandwaves - does not look to be part of them | |
| 70439 | Dark reflector | 449615 | 5843736 | A2 | 8.2 | 1.9 | 0.1 | - | An indistinct curvilinear dark reflector with a shadow in parts. Feature looks disjointed or partially buried between sandwaves | |
| 70440 | Magnetic | 449571 | 5842924 | A2 | - | - | - | 79 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70441 | Magnetic | 449427 | 5842568 | A2 | - | - | - | 28 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70442 | Magnetic | 449401 | 5842568 | A2 | - | - | - | 35 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70443 | Magnetic | 449391 | 5843836 | A2 | - | - | - | 16 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70444 | Magnetic | 449156 | 5843838 | A2 | - | - | - | 30 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70445 | Magnetic | 448908 | 5842930 | A2 | - | - | - | 145 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70446 | Dark reflector | 448792 | 5843781 | A2 | 4.0 | 0.8 | 0 | - | A long and thin linear dark reflector with no shadow, possibly in a slight depression. Looks more anthropogenic than surrounding seabed features. | |
| 70447 | Magnetic | 448669 | 5844394 | A2 | - | - | - | 14 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70448 | Magnetic | 448632 | 5844142 | A2 | - | - | - | 17 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70449 | Debris | 448556 | 5843957 | A2 | 7.4 | 1.0 | 0.3 | - | Possible object with rope or chain attached. An indistinct dark reflector measuring 1m x 0.6 m with a dull shadow and possible rope orientated to the north visible as a very indistinct curvilinear thin dark reflector | |
| 70450 | Magnetic | 447837 | 5842659 | A2 | - | - | - | 20 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70451 | Dark reflector | 447615 | 5844361 | A2 | 3.4 | 0.4 | 0.2 | - | A distinctive irregular shaped linear dark reflector with a dull shadow, located in between sandwaves and looks to be an object rather than part of them | |
| 70452 | Magnetic | 447578 | 5843824 | A2 | - | - | - | 20 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70453 | Magnetic | 447236 | 5844040 | A2 | - | - | - | 48 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70454 | Magnetic | 447062 | 5844336 | A2 | - | - | - | 49 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70455 | Debris | 446424 | 5843694 | A2 | 4.9 | 2.8 | 0.2 | 277 | A distinct but thin right angled linear dark reflector with a bright shadow. Has a large magnetic anomaly associated indicating ferrous debris | |
| 70456 | Debris field | 446339 | 5844375 | A2 | 25.8 | 18.1 | 0.9 | - | A large spread of possible debris, 250 m from wreck 70459. Approximately nine small irregularly shaped dark reflectors, some with shadows, some without. The debris field is located on an area of sandwaves and the full extent may be buried. Largest feature measures 2.7 m x 1.8 m | |
| 70457 | Magnetic | 446199 | 5843670 | A2 | - | - | - | 287 | Large symmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70458 | Magnetic | 446154 | 5843670 | A2 | - | - | - | 299 | Large symmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70459 | Wreck | 446041 | 5844450 | A1 | 88.0 | 40.0 | 10.0 | 775 | A wreck broken in two. In the sidescan data a large spread of highly dispersed wreck debris is visible, with some structure and possible deck planking discernible as parallel dark reflectors with shadows. The stern and hull are not clear and the full extent of the wreck is likely buried by the large sandwaves in the area. In the bathymetry data the wreck is clearly lying in two parts 17m from one another with both sections orientated north-west to south-east. There is a large amount of scouring visible orientated north-west to south-east and measuring over 100m. The individual dimensions of the northern section are 41m x 23m x 10m and the southern section are 44m x 19m x 8m. The wreck has a large magnetic anomaly associated indicating a ferrous composition. In the UKHO database this is recorded as Phillipp M, a steam ship with dimensions of 80.5m x 11.9m x 7m which was torpedoed and sunk in 1944. The wreck is described as lying in two parts on the seabed, probably inverted, with measurements of 55m x 30m x 7.7m last observed in 1999. | 11092 (UKHO) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70460 | Debris | 446039 | 5844401 | A1 | 1.6 | 0.2 | 0.2 | - | Small piece of possible wreck debris, a thin curvilinear dark reflector with a shadow located within sandwaves and situated 27 m south-west of wreck 70459 | |
| 70461 | Bright reflector | 445715 | 5844227 | A2 | 7.3 | 1.1 | 0 | - | A large and thick curvilinear bright reflector, one end appears to fork, very distinct anomaly on a rough and uneven area of the seabed, situated within sandwaves. | |
| 70462 | Magnetic | 445598 | 5844152 | A2 | - | - | - | 208 | Large positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70463 | Magnetic | 445231 | 5843920 | A2 | - | - | - | 40 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70464 | Magnetic | 445145 | 5843920 | A2 | - | - | - | 140 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70465 | Magnetic | 444825 | 5844171 | A2 | - | - | - | 125 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70466 | Magnetic | 444242 | 5843639 | A2 | - | - | - | 66 | Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70467 | Magnetic | 444149 | 5843070 | A2 | - | - | - | 61 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70468 | Magnetic | 443703 | 5844186 | A2 | - | - | - | 42 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70469 | Magnetic | 443609 | 5843618 | A2 | - | - | - | 26 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70470 | Debris | 443566 | 5844007 | A2 | 2.5 | 1.0 | 0 | - | Possible rounded dark reflector object with no shadow (0.9 x 0.7 m) with a rope or chain attached, again with no shadow. Located within an area of large sandwaves. | |
| 70471 | Magnetic | 443536 | 5843665 | A2 | - | - | - | 45 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70472 | Magnetic | 443387 | 5843746 | A2 | - | - | - | 146 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70473 | Dark reflector | 443201 | 5842896 | A2 | 3.8 | 0.7 | 0 | - | A long and thin dark reflector with no shadow. Isolated and distinct feature on a sandy area of the seabed. | |
| 70474 | Debris | 442829 | 5844132 | A2 | 5.7 | 0.6 | 0.0 | 126 | A distinct horseshoe shaped curvilinear dark reflector with no shadow, located within sandwaves. Looks slightly broken up or buried in parts. Has a medium magnetic anomaly associated indicating ferrous debris | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70475 | Magnetic | 442811 | 5844082 | A2 | - | - | - | 40 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70476 | Magnetic | 442688 | 5844458 | A2 | - | - | - | 16 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70477 | Magnetic | 442487 | 5844254 | A2 | - | - | - | 21 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70478 | Magnetic | 442445 | 5842572 | A2 | - | - | - | 17 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70479 | Magnetic | 441841 | 5842994 | A2 | - | - | - | 180 | Medium anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70480 | Magnetic | 441531 | 5842566 | A2 | - | - | - | 107 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70481 | Magnetic | 441178 | 5844460 | A2 | - | - | - | 50 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70482 | Magnetic | 439306 | 5842926 | A2 | - | - | - | 17 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70483 | Magnetic | 438749 | 5842360 | A2 | - | - | - | 23 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70484 | Magnetic | 438624 | 5842364 | A2 | - | - | - | 22 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70485 | Magnetic | 438618 | 5843790 | A2 | - | - | - | 14 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70486 | Magnetic | 438489 | 5844374 | A2 | - | - | - | 10 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70487 | Magnetic | 438324 | 5844140 | A2 | - | - | - | 65 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70488 | Magnetic | 438199 | 5842052 | A2 | - | - | - | 26 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70489 | Magnetic | 437503 | 5844509 | A2 | - | - | - | 58 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70490 | Magnetic | 437457 | 5844446 | A2 | - | - | - | 45 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70491 | Dark reflector | 436891 | 5843933 | A2 | 2.4 | 0.6 | 0.1 | - | An irregularly shaped dark reflector with a bright shadow. It appears to be a thin linear feature with a rounded dark reflector at one end. Located within sandwaves, possibly natural. | |
| 70492 | Rope/chain | 436750 | 5841279 | A2 | 14.2 | 0.3 | 1.0 | - | Short, curvilinear dark reflector possibly with a slight shadow. Feature is not particularly distinct, possibly short length of rope or chain. | |
| 70493 | Rope/chain | 436598 | 5841819 | A2 | 42.7 | 0.4 | 0 | - | A long length of rope or chain, visible as a slightly curvilinear dark reflector with no shadow, possibly in a slight depression, the feature is located perpendicular to sandwaves. | |
| 70494 | Bright reflector | 436386 | 5841067 | A2 | 7.3 | 5.3 | 0 | - | Rounded bright reflector with a slightly darker reflector in the centre. Identified in an area of textured seafloor. | |
| 70495 | Bright reflector | 436136 | 5841143 | A2 | 4.9 | 0.9 | 0 | - | Straight, elongated bright reflector that appears to be quite isolated. | |
| 70496 | Magnetic | 436117 | 5841464 | A2 | - | - | - | 45 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70497 | Magnetic | 435895 | 5841784 | A2 | - | - | - | 48 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70498 | Magnetic | 435847 | 5841261 | A2 | - | - | - | 64 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70499 | Magnetic | 435847 | 5841877 | A2 | - | - | - | 61 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70500 | Magnetic | 435826 | 5841150 | A2 | - | - | - | 253 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70501 | Magnetic | 435764 | 5842595 | A2 | - | - | - | 73 | Medium symmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70502 | Magnetic | 435704 | 5842886 | A2 | - | - | - | 241 | Large anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70503 | Rope/chain | 435606 | 5842596 | A2 | 7.2 | 0.5 | 0 | - | Bright curvilinear item of debris in a 'C' shape. Possible disturbance to surrounding sediment. Not particularly distinct, possible short length of rope or chain. | |
| 70504 | Magnetic | 435552 | 5843199 | A2 | - | - | - | 63 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70505 | Magnetic | 435469 | 5843891 | A2 | - | - | - | 69 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70506 | Magnetic | 435186 | 5843596 | A2 | - | - | - | 263 | Large positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70507 | Magnetic | 434933 | 5842138 | A2 | - | - | - | 249 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70508 | Magnetic | 434576 | 5843899 | A2 | - | - | - | 255 | Large distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70509 | Magnetic | 434464 | 5840546 | A2 | - | - | - | 111 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70510 | Magnetic | 434448 | 5843370 | A2 | - | - | - | 70 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70511 | Magnetic | 434424 | 5844278 | A2 | - | - | - | 156 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70512 | Magnetic | 434420 | 5843727 | A2 | - | - | - | 294 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70513 | Magnetic | 434410 | 5840860 | A2 | - | - | - | 36 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70514 | Magnetic | 434405 | 5841204 | A2 | - | - | - | 44 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70515 | Magnetic | 434324 | 5844467 | A2 | - | - | - | 446 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70516 | Magnetic | 434307 | 5844495 | A2 | - | - | - | 132 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70517 | Dark reflector | 434300 | 5844354 | A2 | 3.2 | 0.4 | 0.3 | - | Elongated dark reflector with slight shadow | |
| 70518 | Magnetic | 434221 | 5840653 | A2 | - | - | - | 20 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70519 | Dark reflector | 434155 | 5843628 | A2 | 2.9 | 0.7 | 1.7 | - | Relatively indistinct dark reflector with a triangular shadow. Close to similar anomaly 70520 | |
| 70520 | Bright reflector | 434147 | 5843636 | A2 | 8.0 | 3.7 | 0 | - | Slightly rectangular bright reflector with indistinct thin linear dark reflectors within this. Possibly shadows. Not particularly distinct but looks relatively anomalous. Similar contact nearby (70519). | |
| 70521 | Magnetic | 433962 | 5841796 | A2 | - | - | - | 33 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70522 | Magnetic | 433853 | 5843190 | A2 | - | - | - | 71 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70523 | Magnetic | 433852 | 5841313 | A2 | - | - | - | 37 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70524 | Magnetic | 433829 | 5840434 | A2 | - | - | - | 43 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70525 | Debris | 433768 | 5841827 | A2 | 11.8 | 3.8 | 1.0 | - | Large, irregular dark reflector, not particularly well defined but with a distinct shadow, possibly debris identified in an area of megaripples. | |
| 70527 | Magnetic | 433658 | 5845726 | A2 | - | - | - | 501 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70528 | Magnetic | 433425 | 5846588 | A2 | - | - | - | 38 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70529 | Magnetic | 433375 | 5844958 | A2 | - | - | - | 98 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70530 | Magnetic | 433316 | 5842340 | A2 | - | - | - | 17 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70531 | Magnetic | 433261 | 5845178 | A2 | - | - | - | 224 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70532 | Magnetic | 433196 | 5843381 | A2 | - | - | - | 32 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70533 | Magnetic | 433049 | 5841825 | A2 | - | - | - | 14 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70534 | Magnetic | 433032 | 5842317 | A2 | - | - | - | 19 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70535 | Dark reflector | 432926 | 5845457 | A2 | 3.4 | 0.4 | 0.4 | - | Small, elongated dark reflector with a broad bright reflector. Quite distinct. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70536 | Magnetic | 432891 | 5845147 | A2 | - | - | - | 37 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70537 | Magnetic | 432838 | 5845047 | A2 | - | - | - | 33 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70538 | Magnetic | 432787 | 5847169 | A2 | - | - | - | 86 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70539 | Magnetic | 432560 | 5846510 | A2 | - | - | - | 136 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70540 | Magnetic | 432506 | 5842643 | A2 | - | - | - | 57 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70541 | Magnetic | 432504 | 5840940 | A2 | - | - | - | 62 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70542 | Magnetic | 432142 | 5846243 | A2 | - | - | - | 79 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70543 | Dark reflector | 432002 | 5847855 | A2 | 19.0 | 2.1 | 0 | - | Curvilinear dark reflector with no discernible height, in an elongated 'c' shape. | |
| 70544 | Magnetic | 431993 | 5847927 | A2 | - | - | - | 94 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70545 | Magnetic | 431965 | 5848728 | A2 | - | - | - | 38 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70546 | Magnetic | 431910 | 5848089 | A2 | - | - | - | 105 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70547 | Bright reflector | 431845 | 5847684 | A2 | 2.8 | 1.6 | 0 | - | Small bright reflector, with darker reflector around rim. Possibly a natural feature. | |
| 70548 | Magnetic | 431842 | 5844213 | A2 | - | - | - | 31 | Small distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70549 | Magnetic | 431708 | 5848772 | A2 | - | - | - | 121 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70550 | Magnetic | 431696 | 5844740 | A2 | - | - | - | 78 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70551 | Magnetic | 431658 | 5842024 | A2 | - | - | - | 44 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70552 | Dark reflector | 431645 | 5846233 | A2 | 7.2 | 0.5 | 0.5 | - | Long, straight and narrow dark reflector with a broad, distinct shadow. Identified in an area of textured seafloor. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70553 | Magnetic | 431620 | 5845127 | A2 | - | - | - | 68 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70554 | Magnetic | 431616 | 5844790 | A2 | - | - | - | 79 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70555 | Dark reflector | 431549 | 5847373 | A2 | 4.4 | 0.4 | 0.3 | - | Curved elongated dark reflector with an irregular shadow identified in an area of megaripples. | |
| 70556 | Dark reflector | 431534 | 5846342 | A2 | 6.3 | 2.0 | 0.4 | - | Straight elongated dark reflector with a larger dark contact at the front. Slight shadow and some possible disturbance to surrounding sediment. | |
| 70557 | Bright reflector | 431519 | 5847683 | A2 | 4.6 | 1.3 | 0 | - | Distinct, curved bright reflector. Possibly a shadow but with no discernible contact. Identified in an area of textured seafloor, may be part of a natural formation. | |
| 70558 | Magnetic | 431504 | 5842911 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70559 | Magnetic | 431484 | 5841571 | A2 | - | - | - | 59 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70560 | Dark reflector | 431458 | 5848228 | A2 | 2.3 | 0.6 | 0.2 | - | Small dark reflector with a slightly angular shadow. Identified in an area of ripples. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70561 | Dark reflector | 431428 | 5844360 | A2 | 4.0 | 0.5 | 0.2 | - | Straight, short dark reflector with a very slight shadow. Feature is not particularly distinct. | |
| 70562 | Dark reflector | 431412 | 5846495 | A2 | 3.4 | 0.3 | 0.2 | - | Short, straight dark reflector with a slightly rounded shadow. | |
| 70563 | Dark reflector | 431386 | 5848806 | A2 | 3.5 | 0.3 | 0.2 | - | Small, slightly elongated dark reflector with a slight shadow. | |
| 70564 | Magnetic | 431261 | 5848896 | A2 | - | - | - | 122 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70565 | Wreck | 431217 | 5841986 | A1 | 70.0 | 31.0 | 6.3 | 200 | A possible area of dispersed wreck, visible in the sidescan data as several dark reflectors that are not always distinct, with broad shadows. An elongated dark reflector with some possible associated scour and a distinct, rounded shadow is also visible which may be part of some vessel structure. In the bathymetry data this is visible as a large wreck situated within sandwaves and partially buried by sediments. The wreck appears to be broken up with large sections disjointed from the main structure of the wreck. There is some scouring coming from the wreck orientated south-east and measuring approximately 50m. A large magnetic anomaly is associated indicating some ferrous content. In the UKHO record this is an unknown wreck described as being broken up and almost buried by sandwaves with debris in the wrecks vicinity, likely boilers and engine. | 10722 (UKHO); 892268 (NRHE) |
| 70566 | Magnetic | 431129 | 5844010 | A2 | - | - | - | 40 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70567 | Magnetic | 431088 | 5843109 | A2 | - | - | - | 22 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70568 | Bright reflector | 431067 | 5848781 | A2 | 2.6 | 1.0 | 0 | - | Two short, straight bright reflectors close to each other. Image possibly distorted by movement of the sonar fish. | |
| 70569 | Magnetic | 431048 | 5843905 | A2 | - | - | - | 58 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70570 | Magnetic | 431035 | 5848341 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70571 | Magnetic | 431007 | 5847422 | A2 | - | - | - | 305 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70572 | Magnetic | 430952 | 5842480 | A2 | - | - | - | 225 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70573 | Dark reflector | 430914 | 5845897 | A2 | 4.1 | 0.2 | 0.2 | - | Slightly curved elongated dark reflector with a very slight shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70574 | Debris field | 430902 | 5848141 | A2 | 31.0 | 13.0 | 1.3 | 106 | Large area of possible debris, some slightly darker reflectors and bright reflectors, some of which appear to be relatively straight. Not particularly distinct. In the bathymetry data this is visible as a large oval mound, located on a rough and sandwave rich area of the seabed. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 70575 | Dark reflector | 430895 | 5845895 | A2 | 6.0 | 0.3 | 0.3 | - | Small, relatively straight dark reflector with a slight shadow. In line with another similar contact, possibly part of the same, partially buried feature. | |
| 70576 | Debris | 430895 | 5848188 | A2 | 4.8 | 1.9 | 0.9 | 158 | A distinct but poorly defined dark reflector with height identified in an area of megaripples. Some disturbance to surrounding sediment. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 70577 | Magnetic | 430893 | 5843903 | A2 | - | - | - | 58 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70578 | Magnetic | 430888 | 5847340 | A2 | - | - | - | 55 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70579 | Dark reflector | 430872 | 5843755 | A2 | 2.5 | 0.2 | 0.2 | - | Straight, narrow dark reflector with a very slight shadow. Not particularly distinct | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70580 | Magnetic | 430872 | 5847034 | A2 | - | - | - | 99 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70581 | Dark reflector | 430804 | 5848049 | A2 | 3.0 | 0.6 | 0.2 | - | Small, distinct dark reflector with a very slight shadow. Identified in an area of megarippples. | |
| 70582 | Dark reflector | 430756 | 5846123 | A2 | 3.0 | 0.2 | 0.1 | - | Short, straight distinct dark reflector with a very slight shadow | |
| 70583 | Dark reflector | 430721 | 5844754 | A2 | 6.9 | 0.8 | 0.6 | - | Straight, narrow dark reflector with a distinct but irregular shadow. Feature is identified in an area of, and perpendicular to, megaripples. | |
| 70584 | Magnetic | 430668 | 5843112 | A2 | - | - | - | 61 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70585 | Magnetic | 430619 | 5843102 | A2 | - | - | - | 31 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70586 | Magnetic | 430610 | 5848511 | A2 | - | - | - | 92 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70587 | Magnetic | 430609 | 5844209 | A2 | - | - | - | 364 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70588 | Magnetic | 430606 | 5848846 | A2 | - | - | - | 94 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70589 | Magnetic | 430520 | 5848897 | A2 | - | - | - | 45 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70590 | Magnetic | 430503 | 5847230 | A2 | - | - | - | 151 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70591 | Magnetic | 430494 | 5848400 | A2 | - | - | - | 39 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70592 | Magnetic | 430456 | 5847097 | A2 | - | - | - | 39 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70593 | Magnetic | 430444 | 5845598 | A2 | - | - | - | 67 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70594 | Magnetic | 430412 | 5848557 | A2 | - | - | - | 23 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70595 | Magnetic | 430409 | 5848055 | A2 | - | - | - | 594 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70596 | Magnetic | 430362 | 5847371 | A2 | - | - | - | 663 | Large anomaly monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70597 | Dark reflector | 430308 | 5845494 | A2 | 6.9 | 2.0 | 1.7 | - | Two dark reflectors or one broken up dark reflector with a distinct, irregular shadow. Feature identified in an area of textured seafloor. | |
| 70598 | Bright reflector | 430297 | 5848546 | A2 | 5.4 | 3.3 | 0 | - | Triangular bright reflector with a small dark reflector at front. In an area of textured seafloor, looks anomalous. | |
| 70599 | Magnetic | 430290 | 5845592 | A2 | - | - | - | 92 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70600 | Magnetic | 430260 | 5845299 | A2 | - | - | - | 79 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70601 | Seafloor disturbance | 430166 | 5847846 | A2 | 10.7 | 6.3 | 0.3 | - | Possible 'X' shaped seafloor disturbance, comprised of some bright reflectors and some dark reflectors, possibly with height. | |
| 70602 | Magnetic | 430144 | 5845429 | A2 | - | - | - | 841 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70603 | Magnetic | 430137 | 5849410 | A2 | - | - | - | 428 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70604 | Magnetic | 430137 | 5848871 | A2 | - | - | - | 44 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70605 | Magnetic | 430128 | 5849097 | A2 | - | - | - | 428 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70606 | Magnetic | 430106 | 5846681 | A2 | - | - | - | 28 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70607 | Magnetic | 430095 | 5848288 | A2 | - | - | - | 225 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70608 | Magnetic | 430033 | 5847568 | A2 | - | - | - | 294 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70609 | Magnetic | 429987 | 5846807 | A2 | - | - | - | 60 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70610 | Dark reflector | 429842 | 5849672 | A2 | 1.4 | 0.6 | 0.8 | - | Small dark reflector with a distinct but tapered shadow. Identified in an area of megaripples, appears quite distinct. | |
| 70611 | Magnetic | 429816 | 5845514 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70612 | Magnetic | 429794 | 5848360 | A2 | - | - | - | 99 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70613 | Magnetic | 429783 | 5849881 | A2 | - | - | - | 130 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70614 | Magnetic | 429772 | 5847316 | A2 | - | - | - | 52 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70615 | Magnetic | 429652 | 5846468 | A1 | - | - | - | 1697 | Very large negative monopole only identified on one survey line. Indicative of possible substantial buried ferrous debris. | |
| 70616 | Debris | 429625 | 5848286 | A2 | 3.0 | 1.6 | 0.4 | - | Slightly square object, not particularly distinct. Comprises four, short, straight, parallel dark reflectors with a slight shadow, possibly debris | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|--------------------------------------|
| 70617 | Wreck | 429617 | 5846348 | A1 | 56.7 | 47.0 | 6.4 | 6367 | Large wreck possibly in two parts, lying perpendicular to one another. Identified as distinct dark reflectors with broad shadows. The wreck appears to be intact in its two parts, with the majority of the hull intact and with deck structure visible as some straight, slatted features. In the bathymetry data the wreck is clearly broken in two parts with some standing structure visible. The two parts measure 77m in length when added together in the bathymetry data, close to the original recorded dimensions (73.2m). There is a very large magnetic anomaly associated indicating a ferrous construction. The UKHO records this as the Rye, a steamship lying in two parts at right angles, sunk in 1941 by torpedo fire. Original dimensions were 73.2m x 10.4m x 4.6m. Last observed in 2014 with dimensions 40m x 40m x 6m. | 10544 (UKHO); 907459 (NRHE) |
| 70618 | Debris | 429562 | 5846957 | A1 | 3.1 | 2.5 | 2.0 | 1182 | Distinct dark reflector with a broad shadow. Feature identified in an area of textured seafloor. Has a very large magnetic anomaly associated indicating ferrous debris | |
| 70619 | Dark reflector | 429554 | 5848941 | A2 | 7.0 | 2.4 | 1.0 | - | Irregularly shaped dark reflector with a broad, slightly irregular shadow. Identified as two rounded dark reflectors connected in the centre | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70620 | Debris | 429512 | 5846995 | A2 | 3.4 | 1.9 | 2.0 | 67 | Distinct dark reflector with a broad shadow. Feature identified in an area of textured seafloor. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 70621 | Magnetic | 429501 | 5845892 | A2 | - | - | - | 129 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70622 | Magnetic | 429492 | 5846128 | A2 | - | - | - | 45 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70623 | Magnetic | 429458 | 5847054 | A2 | - | - | - | 515 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70624 | Debris | 429364 | 5847229 | A2 | 4.1 | 2.2 | 1.4 | 202 | Distinct dark reflector with a broad shadow. Feature identified in an area of textured seafloor. Has a large magnetic anomaly associated indicating ferrous debris | |
| 70625 | Magnetic | 429359 | 5848209 | A2 | - | - | - | 133 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70626 | Magnetic | 429316 | 5847322 | A2 | - | - | - | 270 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70627 | Magnetic | 429254 | 5847128 | A2 | - | - | - | 72 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70628 | Magnetic | 429137 | 5849801 | A2 | - | - | - | 43 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70629 | Magnetic | 429095 | 5848900 | A2 | - | - | - | 212 | Large positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70630 | Magnetic | 429074 | 5845972 | A2 | - | - | - | 66 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70631 | Magnetic | 429062 | 5847041 | A2 | - | - | - | 27 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70632 | Magnetic | 429055 | 5846006 | A2 | - | - | - | 51 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70633 | Dark reflector | 429036 | 5846962 | A2 | 4.4 | 0.4 | 0.3 | - | Very narrow, straight dark reflector with a slight shadow. Not particularly distinct. | |
| 70634 | Magnetic | 429030 | 5848829 | A2 | - | - | - | 81 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70635 | Magnetic | 429026 | 5849810 | A2 | - | - | - | 48 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70636 | Magnetic | 428994 | 5847172 | A2 | - | - | - | 55 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70637 | Magnetic | 428946 | 5849408 | A2 | - | - | - | 113 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70638 | Magnetic | 428889 | 5849291 | A2 | - | - | - | 58 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70639 | Wreck | 428802 | 5847632 | A1 | 146.4 | 46.6 | 11.7 | 818 | Large dispersed wreck. Possibly two sections of wreck visible. A thick slightly curvilinear dark reflector, possibly the hull edge, is discernible in the sidescan sonar data. The wreck is comprised of numerous straight dark reflectors with shadows. The wreck is orientated north-west to south-east and lies perpendicular to the large sandwaves. The full extent and detail is likely covered by sands. The wreck has a possible associated piece of debris at its northern end (70640) which is a long, thin and indistinct linear dark reflector with a broad shadow and dimensions of 20.5m x 1.1m x 3.3m. In the bathymetry data the wreck appears upright and with some structure visible. There is a large magnetic anomaly associated with the wreck indicating a ferrous construction. The UKHO records this wreck as the Trevethoe, a motor vessel built in 1940 and sunk in 1941, with original dimensions of 131.8m x 17.1m x 7.5m. Last observed in 2014 as upright but collapsed and in two parts with dimensions 140m x 25m x 5m. | 10546 (UKHO); 907460 (NRHE) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70640 | Debris | 428758 | 5847714 | A1 | 20.5 | 1.1 | 3.3 | - | A long, thin and indistinct linear dark reflector, with a long, broad shadow. Possible wreck debris located 9 m to the north-west of wreck 70639 | |
| 70641 | Magnetic | 428647 | 5848054 | A2 | - | - | - | 45 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70642 | Dark reflector | 428588 | 5848570 | A2 | 11.3 | 0.4 | 0.1 | - | Long and thin curvilinear dark reflector with a slight but distinct shadow. | |
| 70643 | Magnetic | 428505 | 5849281 | A2 | - | - | - | 676 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70644 | Magnetic | 428419 | 5849889 | A2 | - | - | - | 28 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70645 | Wreck | 428283 | 5848091 | A1 | 24.0 | 8.5 | 5.4 | 52 | Medium sized wreck, visible as a distinct dark reflector outline that is likely the hull, with some dark reflectors in its centre. The wreck has a broad, irregular and distinct shadow and has been identified in an area of megaripples. There is a possible broken off linear piece of debris extending from the wreck in one of the sidescan sonar images. The wreck is orientated north-east to southwest. In the bathymetry data this is visible as a large and distinct wreck lying in between large sandwaves. The wreck is intact and upright with some slight scouring orientated north-east to south-west and measuring 16m either side. There is a medium magnetic anomaly associated with this wreck indicating some ferrous debris, though the nearest line of data is 25m from the wrecks location. In the UKHO record this is an unknown wreck that is largely intact and partially buried, previously observed in 2016 with dimensions of 24m x 10m x 4m. | 82114 (UKHO) |
| 70646 | Dark reflector | 428180 | 5849375 | A2 | 2.6 | 0.3 | 0.1 | - | Short, straight narrow dark reflector with a slight but distinct shadow. | |
| 70647 | Dark reflector | 428169 | 5849394 | A2 | 5.4 | 0.4 | 0.1 | - | Short, straight narrow dark reflector with a slight but distinct shadow. Feature is not particularly distinct. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70648 | Magnetic | 428107 | 5849613 | A2 | - | - | - | 93 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70649 | Magnetic | 428061 | 5848208 | A2 | - | - | - | 56 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70650 | Magnetic | 428002 | 5849599 | A2 | - | - | - | 78 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70651 | Debris field | 427880 | 5849577 | A2 | 16.4 | 6.9 | 0.6 | - | A medium sized spread of possible debris comprising approximately eight dark reflectors with height. Possibly natural however looks a little anomalous. Possible debris field. | |
| 70652 | Dark reflector | 427831 | 5848600 | A2 | 2.9 | 0.4 | 0.2 | - | Short, straight dark reflector with slight height. | |
| 70653 | Magnetic | 427682 | 5849792 | A2 | - | - | - | 17 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70654 | Dark reflector | 427667 | 5848061 | A2 | 2.6 | 0.3 | 0.6 | - | Straight, narrow dark reflector with a broad shadow. Numerous similar but smaller contacts identified nearby | |
| 70655 | Magnetic | 427658 | 5850018 | A2 | - | - | - | 29 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70656 | Magnetic | 427425 | 5849416 | A2 | - | - | - | 136 | Medium and distinctive dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70657 | Magnetic | 427326 | 5848829 | A2 | - | - | - | 38 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70658 | Dark reflector | 427033 | 5850434 | A2 | 4.6 | 0.4 | 0.3 | - | Small, short, straight dark reflector with a slight shadow. | |
| 70659 | Wreck | 426967 | 5850445 | A1 | 56.0 | 22.0 | 6.7 | 9466 | Large wreck that appears to be intact though possibly partially buried by sandwaves. It is possibly listing slightly to the starboard side and has a broad shadow. Some elongated straight dark reflectors are visible. The wreck is orientated east to west with a large amount of scouring orientated north-west to south-east. In the bathymetry data the wreck appears to cut through a megaripple. There is a very large magnetic anomaly associated indicating a ferrous construction. The UKHO record (10849) gives this as an unknown wreck lying in two parts, last observed in 2014 with dimensions of 50m x 10m x 5.1m. | 10849 (UKHO) |
| 70660 | Magnetic | 426880 | 5849236 | A2 | - | - | - | 21 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70661 | Dark reflector | 426817 | 5850012 | A2 | 6.9 | 0.9 | 0.3 | - | Narrow dark reflector with a broad shadow. A distinct 's' shaped dark reflector identified in front of the contact. Feature looks a little anomalous. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70662 | Magnetic | 426787 | 5848935 | A2 | - | - | - | 18 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70663 | Magnetic | 426760 | 5850126 | A2 | - | - | - | 340 | Large anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70665 | Debris field | 426553 | 5849978 | A2 | 24.7 | 14.0 | 3.2 | 194 | An indistinct possible debris field comprising an area of numerous small dark reflectors, some of which appear to be slightly slatted, with distinct, irregular shadows. Located on a very rough and uneven area of the seabed with sandwaves. The full extent is possibly buried by sands. In the bathymetry data this is visible as an indistinct medium sized triangular mound that appears to be largely covered by sediment. The orientation is unclear, possibly north-east to south-west. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 70666 | Magnetic | 426493 | 5850084 | A2 | - | - | - | 26 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70667 | Magnetic | 426488 | 5849307 | A2 | - | - | - | 16 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70668 | Magnetic | 426435 | 5849675 | A2 | - | - | - | 57 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70669 | Magnetic | 426319 | 5848674 | A2 | - | - | - | 27 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70670 | Rope/chain | 426220 | 5849495 | A2 | 55.0 | 0.2 | 0.2 | - | Straight, narrow linear item with a very slight shadow. Identified in an area od megaripples. Feature appears to be slightly intermittent suggesting partial burial by mobile sediments. Possible rope or chain. | |
| 70671 | Magnetic | 426213 | 5850327 | A2 | - | - | - | 15 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70672 | Dark reflector | 426185 | 5850409 | A2 | 2.8 | 0.9 | 0.4 | - | Short, straight dark reflector in an patch of disturbed seafloor in an area of megaripples, looks distinct | |
| 70673 | Magnetic | 426145 | 5849832 | A2 | - | - | - | 34 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70674 | Magnetic | 426063 | 5850154 | A2 | - | - | - | 40 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70675 | Magnetic | 426015 | 5849775 | A2 | - | - | - | 19 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70676 | Magnetic | 425970 | 5850552 | A2 | - | - | - | 54 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70677 | Magnetic | 425963 | 5849551 | A2 | - | - | - | 15 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70678 | Magnetic | 425937 | 5850353 | A2 | - | - | - | 24 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70679 | Magnetic | 425884 | 5850357 | A2 | - | - | - | 61 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70680 | Magnetic | 425702 | 5850101 | A2 | - | - | - | 41 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70681 | Magnetic | 425643 | 5849614 | A2 | - | - | - | 14 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70682 | Magnetic | 425500 | 5849633 | A2 | - | - | - | 11 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70683 | Magnetic | 425489 | 5850285 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70684 | Magnetic | 425148 | 5850043 | A2 | - | - | - | 20 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70685 | Magnetic | 425089 | 5850228 | A2 | - | - | - | 42 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70686 | Magnetic | 424644 | 5850275 | A2 | - | - | - | 55 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70687 | Magnetic | 424444 | 5848813 | A2 | - | - | - | 33 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70688 | Magnetic | 424071 | 5848790 | A2 | - | - | - | 42 | Small irregular anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70689 | Magnetic | 424052 | 5849094 | A2 | - | - | - | 33 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70690 | Magnetic | 423728 | 5850769 | A2 | - | - | - | 47 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70691 | Magnetic | 423713 | 5849164 | A2 | - | - | - | 139 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70692 | Bright reflector | 423667 | 5849174 | A2 | 4.4 | 3.0 | 0 | - | Circular bright reflector with a dark reflector in the centre. Identified within an area of megaripples, possibly a natural feature. | |
| 70693 | Magnetic | 423262 | 5850476 | A2 | - | - | - | 17 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70694 | Magnetic | 423235 | 5849551 | A2 | - | - | - | 21 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70695 | Magnetic | 423207 | 5849185 | A2 | - | - | - | 85 | Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70696 | Magnetic | 423104 | 5850773 | A2 | - | - | - | 16 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70697 | Magnetic | 422908 | 5850623 | A2 | - | - | - | 31 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70698 | Magnetic | 422890 | 5849463 | A2 | - | - | - | 15 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70699 | Magnetic | 422784 | 5849039 | A2 | - | - | - | 109 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70700 | Magnetic | 422571 | 5849429 | A2 | - | - | - | 224 | Large and distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70701 | Magnetic | 422490 | 5849054 | A2 | - | - | - | 28 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70702 | Magnetic | 422435 | 5849009 | A2 | - | - | - | 19 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70703 | Magnetic | 422290 | 5849776 | A2 | - | - | - | 22 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70704 | Wreck | 422267 | 5849082 | A1 | 26.0 | 7.0 | 2.0 | 117 | Wreckage of an unknown sailing vessel. Appears on the sonar data to be relatively intact though partially buried. Numerous short, straight dark reflectors with height. A medium sized wreck that is located within large sandwaves and thus difficult to distinguish in the bathymetry data. Appears to be aligned north-east to south-west and very little detail is visible - the wreck is mostly buried by sediments and the hull edge is difficult to see. Has a medium magnetic anomaly associated indicating a ferrous construction. This is an unknown wreck in the UKHO record which was last observed in 2014 as intact, mainly covered by a sandwave and measuring 46m x 8m x 2m. | 10545 (UKHO) |
| 70705 | Magnetic | 422091 | 5849938 | A2 | - | - | - | 42 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70706 | Magnetic | 422088 | 5849332 | A2 | - | - | - | 43 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70707 | Magnetic | 421931 | 5849407 | A2 | - | - | - | 40 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70708 | Magnetic | 421831 | 5849489 | A2 | - | - | - | 58 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70709 | Wreck | 421671 | 5849182 | A1 | 153.0 | 38.0 | 10.2 | 10244 | Wreckage of steamship Montferlan. Identified on the bathymetry data as a distinct mound aligned north-east to south-west with scour to the south-west of the wreck. Bathymetry detail suggests that the wreck is upright with some debris to the north-east. Appears on the sonar data to be partially disintegrated, possibly broken up into sections, with a long distinct shadow. Numerous straight, sometimes slatted, sometimes square, dark reflectors identified. Feature has a very large associated magnetic anomaly. UKHO record states the original length was 128m. Last observed in 2014 with measurements of 160m x 34m x 7.7m. | 10549 (UKHO); 907461 (NRHE) |
| 70710 | Magnetic | 421494 | 5850694 | A2 | - | - | - | 59 | Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70711 | Magnetic | 421409 | 5849573 | A2 | - | - | - | 44 | Small symmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70712 | Magnetic | 421381 | 5850683 | A2 | - | - | - | 49 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70713 | Magnetic | 421210 | 5850816 | A2 | - | - | - | 77 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70714 | Magnetic | 421207 | 5849111 | A2 | - | - | - | 64 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70715 | Debris field | 421173 | 5849391 | A2 | 20.0 | 17.0 | 2.9 | 178 | A broad, elongated dark reflector with several straight dark reflectors jutting out from its edge. Feature appears to be partially buried. In the bathymetry data this is visible as a large and distinct mound that has a slight circular profile with one side steeper than the other. Identified on the magnetometer data as a medium asymmetric dipole indicating ferrous material. Possibly a debris field or a small, partially buried wreck. | |
| 70716 | Mound | 420995 | 5849159 | A2 | 18.5 | 7.0 | 0.6 | - | A medium sized mound within a depression, the depression measures 16m x 7m x -0.5m in the bathymetry data. In the sidescan data the feature is visible as a broad, slightly rounded dark reflector with a distinct, tapered shadow, with possible associated scour. Contact possibly sits within a slight depression. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70717 | Magnetic | 420991 | 5850668 | A2 | - | - | - | 41 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70718 | Magnetic | 420969 | 5850103 | A2 | - | - | - | 146 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70719 | Dark reflector | 420943 | 5849672 | A2 | 2.4 | 0.5 | 0.4 | - | Distinct but irregular dark reflector with height, appears to be in a slight zigzag. Object identified in an area of megaripples. | |
| 70720 | Magnetic | 420940 | 5850715 | A2 | - | - | - | 87 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70721 | Magnetic | 420927 | 5850593 | A2 | - | - | - | 51 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70722 | Magnetic | 420807 | 5849404 | A2 | - | - | - | 495 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70723 | Magnetic | 420768 | 5850761 | A2 | - | - | - | 100 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70724 | Magnetic | 420764 | 5850468 | A2 | - | - | - | 287 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70725 | Magnetic | 420754 | 5849207 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70726 | Magnetic | 420737 | 5850735 | A2 | - | - | - | 24 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70727 | Dark reflector | 420735 | 5850102 | A2 | 0.7 | 0.2 | 0.1 | - | Short, straight dark reflector with a very slight shadow. Identified in an area of megaripples. | |
| 70728 | Magnetic | 420530 | 5849111 | A2 | - | - | - | 112 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70729 | Magnetic | 420396 | 5849951 | A2 | - | - | - | 55 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70730 | Magnetic | 420316 | 5850327 | A2 | - | - | - | 56 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70731 | Magnetic | 420224 | 5849195 | A2 | - | - | - | 185 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70732 | Magnetic | 420032 | 5849147 | A2 | - | - | - | 41 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70733 | Magnetic | 419991 | 5850091 | A2 | - | - | - | 83 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70734 | Magnetic | 419974 | 5849184 | A2 | - | - | - | 238 | Large dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70735 | Debris field | 419825 | 5849775 | A2 | 26.0 | 12.0 | 2.5 | - | A large group of small dark reflectors with a distinct, jagged shadow. Identified in an area of megaripples and the full extent may be buried. In the bathymetry data this is visible as a large and distinct mound with scour to the east and north-east of the target. Possible debris field. | |
| 70736 | Magnetic | 419809 | 5849809 | A2 | - | - | - | 95 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70737 | Magnetic | 419665 | 5850149 | A2 | - | - | - | 72 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70738 | Magnetic | 419647 | 5850360 | A2 | - | - | - | 76 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70739 | Magnetic | 419573 | 5850705 | A2 | - | - | - | 23 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70740 | Magnetic | 419534 | 5850533 | A2 | - | - | - | 21 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70741 | Magnetic | 419329 | 5850307 | A2 | - | - | - | 775 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70742 | Dark reflector | 419321 | 5849324 | A2 | 0.8 | 0.7 | 0.2 | - | Small round dark reflector with a short but distinct shadow. Possibly natural however looks anomalously round. | |
| 70743 | Magnetic | 419320 | 5850103 | A2 | - | - | - | 331 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70744 | Wreck | 419288 | 5849507 | A1 | 68.0 | 11.3 | 6.0 | 10181 | Large wreck that appears in the sonar data to be partially broken up with numerous straight dark reflectors and some slatted items. In the bathymetry data the wreck is visible as intact and lying upright on the edge of a large sandwave. The wreck is orientated north-east to southwest with scouring measuring 30m and orientated to the south-east. Associated wreck debris may be buried by sands. Wreck is identified on the magnetometer data as a very large magnetic anomaly indicating ferrous material. Associated UKHO record of an unknown wreck, last observed in 2014 measuring 60m x 10m x 4.1m. | 10548 (UKHO); 892271 (NRHE) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70745 | Magnetic | 419265 | 5849383 | A2 | - | - | - | 25 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70746 | Magnetic | 419150 | 5849325 | A2 | - | - | - | 138 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70747 | Magnetic | 419125 | 5851125 | A2 | - | - | - | 24 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70748 | Magnetic | 419071 | 5850689 | A2 | - | - | - | 84 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70749 | Magnetic | 419066 | 5851187 | A2 | - | - | - | 37 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70750 | Dark reflector | 419064 | 5850541 | A2 | 1.8 | 0.3 | 0.2 | - | Elongated dark reflector with a distinct shadow. | |
| 70751 | Magnetic | 419015 | 5849935 | A2 | - | - | - | 75 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70752 | Magnetic | 419009 | 5849664 | A2 | - | - | - | 146 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70753 | Dark reflector | 418931 | 5849803 | A2 | 0.9 | 0.2 | 0.2 | - | Small, dark reflector with a distinct shadow which appears to extend out beyond the contact. Some possible associated scour. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70754 | Dark reflector | 418930 | 5849791 | A2 | 2.0 | 0.4 | 0.4 | - | Small dark reflector with a distinct, rounded, relatively broad shadow. Some possible associated scour. | |
| 70755 | Magnetic | 418916 | 5850637 | A2 | - | - | - | 63 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70756 | Magnetic | 418884 | 5849422 | A2 | - | - | - | 24 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70757 | Magnetic | 418523 | 5850069 | A2 | - | - | - | 41 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70758 | Magnetic | 418379 | 5850671 | A2 | - | - | - | 250 | Large positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70759 | Magnetic | 418305 | 5850967 | A2 | - | - | - | 382 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70760 | Magnetic | 418276 | 5850891 | A2 | - | - | - | 38 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70761 | Magnetic | 418101 | 5850986 | A2 | - | - | - | 184 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70762 | Magnetic | 418059 | 5850991 | A2 | - | - | - | 236 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70763 | Magnetic | 417939 | 5849439 | A2 | - | - | - | 49 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70764 | Magnetic | 417769 | 5849397 | A2 | - | - | - | 32 | Small anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70765 | Magnetic | 417414 | 5851081 | A2 | - | - | - | 105 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70766 | Magnetic | 417339 | 5850021 | A2 | - | - | - | 55 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70767 | Magnetic | 416973 | 5850755 | A2 | - | - | - | 91 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70768 | Magnetic | 416881 | 5849985 | A2 | - | - | - | 11 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70769 | Magnetic | 416815 | 5849811 | A2 | - | - | - | 71 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70770 | Magnetic | 416536 | 5851027 | A2 | - | - | - | 143 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70771 | Magnetic | 416273 | 5849462 | A2 | - | - | - | 26 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|-------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70772 | Magnetic | 416270 | 5849491 | A2 | - | - | - | 30 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70773 | Magnetic | 416231 | 5851312 | A2 | - | - | - | 799 | Large dipole anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70774 | Magnetic | 416223 | 5849757 | A2 | - | - | - | 96 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70775 | Magnetic | 416096 | 5851067 | A2 | - | - | - | 35 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70776 | Magnetic | 416077 | 5851249 | A2 | - | - | - | 21 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70777 | Magnetic | 415948 | 5851087 | A2 | - | - | - | 15 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70778 | Magnetic | 415790 | 5851270 | A2 | - | - | - | 29 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70779 | Magnetic | 415763 | 5849825 | A2 | - | - | - | 48 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70780 | Dark reflector | 415670 | 5850820 | A2 | 1.2 | 0.3 | 0.2 | - | Elongated dark reflector with a distinct, slightly irregular shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70781 | Magnetic | 415655 | 5850729 | A2 | - | - | - | 36 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70782 | Debris field | 415394 | 5849528 | A2 | 9.9 | 0.4 | 1.1 | 260 | Small patch of disturbed seafloor. Possibly several small objects with height piled up. Interpreted as being a small debris field. Associated large magnetic anomaly suggests ferrous debris. | |
| 70783 | Magnetic | 415373 | 5851454 | A2 | - | - | - | 60 | Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70784 | Debris | 415366 | 5849564 | A1 | 0.8 | 0.6 | 0.8 | 1113 | Distinct dark reflector with an irregular shadow. Other similar but smaller contacts identified nearby. Possibly part of nearby debris field (70785). Has a very large magnetic contact associated indicating ferrous debris | |
| 70785 | Debris field | 415354 | 5849572 | A1 | 10.8 | 2.4 | 1.3 | 1113 | Small patch of disturbed seafloor comprised numerous dark reflectors with height. Very large monopole identified on the magnetometer data indicating ferrous material. Possible small debris field. | |
| 70786 | Magnetic | 415318 | 5850961 | A2 | - | - | - | 71 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70787 | Magnetic | 415303 | 5851388 | A2 | - | - | - | 78 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70788 | Magnetic | 415281 | 5851195 | A2 | - | - | - | 36 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70789 | Magnetic | 415184 | 5849952 | A2 | - | - | - | 184 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70790 | Magnetic | 415045 | 5850663 | A2 | - | - | - | 34 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70791 | Mound | 415020 | 5849973 | A2 | 9.1 | 1.1 | 1.2 | - | Small patch of dark reflector, not particularly distinct, but with a clear shadow and some possible scour. Possibly natural however looks a little anomalous. Identified as a small mound on the bathymetry data. | |
| 70792 | Magnetic | 414893 | 5850619 | A2 | - | - | - | 40 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70793 | Magnetic | 414871 | 5850387 | A2 | - | - | - | 22 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70794 | Dark reflector | 414866 | 5849913 | A2 | 1.8 | 1.6 | 0.7 | - | Broad, slightly irregular dark reflector with a distinct shadow. Possibly several objects close together. May be a natural feature. | |
| 70795 | Magnetic | 414746 | 5850304 | A2 | - | - | - | 35 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70796 | Magnetic | 414654 | 5850537 | A2 | - | - | - | 58 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70797 | Magnetic | 414371 | 5850803 | A2 | - | - | - | 76 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70798 | Dark reflector | 414339 | 5850340 | A2 | 1.0 | 0.1 | 0.3 | - | Small dark reflector with a distinct shadow. Bright reflector at the front of the contact, possibly related. | |
| 70799 | Magnetic | 414289 | 5850975 | A2 | - | - | - | 53 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70800 | Magnetic | 414188 | 5850981 | A2 | - | - | - | 20 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70801 | Magnetic | 414181 | 5849933 | A2 | - | - | - | 172 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70802 | Magnetic | 414007 | 5851075 | A2 | - | - | - | 217 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70803 | Magnetic | 413984 | 5851304 | A2 | - | - | - | 97 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70804 | Magnetic | 413882 | 5851313 | A2 | - | - | - | 28 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70805 | Magnetic | 413875 | 5851575 | A2 | - | - | - | 15 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70806 | Magnetic | 413857 | 5849835 | A2 | - | - | - | 51 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70807 | Magnetic | 413733 | 5851587 | A2 | - | - | - | 11 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70808 | Magnetic | 413700 | 5851069 | A2 | - | - | - | 79 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70809 | Wreck | 413550 | 5850143 | A1 | 47.0 | 18.0 | 7.6 | 1779 | Wreck of steam paddle schooner Seagull. The wreck is orientated in a NW - SE direction. Wreck appears to be partially disintegrated on the sonar data with numerous straight dark reflectors and a broad, irregular shadow. In the bathymetry data the wreck appears intact and upright on a sandwave rich area of the seabed, again some superstructure is discernible in the data. Wreck is identified on the magnetometer data as a large asymmetrical dipole. The UKHO record states that the original dimensions were 52.1m x 7m. This wreck was last observed in 1994 by divers, who measured the length as 40m and the height as 8.6m. | 10550 (UKHO); 892272 (NRHE) |
| 70810 | Debris field | 413518 | 5850156 | A1 | 8.0 | 3.3 | 0.4 | - | Small patch of disturbed seafloor with some possible straight features with height, however nothing is clearly discernible. Possible debris associated with the wreck 70809 | |
| 70811 | Magnetic | 413517 | 5850235 | A2 | - | - | - | 81 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70812 | Magnetic | 413491 | 5851668 | A2 | - | - | - | 110 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70813 | Magnetic | 413294 | 5851181 | A2 | - | - | - | 74 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70814 | Magnetic | 413256 | 5849895 | A2 | - | - | - | 69 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70815 | Magnetic | 413243 | 5849961 | A2 | - | - | - | 75 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70816 | Debris | 413210 | 5850774 | A2 | 8.3 | 0.4 | 0.1 | - | Short curvilinear dark reflector with a slight shadow. Possible item of debris however not particularly distinct. | |
| 70817 | Magnetic | 413169 | 5849901 | A2 | - | - | - | 67 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70818 | Dark reflector | 412926 | 5850034 | A2 | 0.8 | 0.7 | 0.5 | - | Relatively indistinct, straight dark reflector with a relatively broad shadow. Possibly a natural feature. | |
| 70819 | Magnetic | 412731 | 5850815 | A2 | - | - | - | 36 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70820 | Magnetic | 412715 | 5851475 | A2 | - | - | - | 301 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70821 | Magnetic | 412714 | 5851035 | A2 | - | - | - | 30 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70822 | Magnetic | 412605 | 5849769 | A2 | - | - | - | 69 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70823 | Debris | 412557 | 5850455 | A2 | 82.7 | 0.9 | 0.4 | 110 | Long, straight linear item of debris with height identified on the sonar data. Feature correlates with a medium asymmetric dipole identified on the magnetometer data indicating ferrous debris. | |
| 70824 | Magnetic | 412502 | 5850689 | A2 | - | - | - | 34 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70825 | Magnetic | 412445 | 5851504 | A2 | - | - | - | 158 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70826 | Magnetic | 412413 | 5849863 | A2 | - | - | - | 36 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70827 | Magnetic | 412322 | 5850037 | A2 | - | - | - | 53 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70828 | Magnetic | 412261 | 5850645 | A2 | - | - | - | 52 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70829 | Dark reflector | 412242 | 5849928 | A2 | 2.7 | 0.1 | 0.2 | - | Faint, straight, elongated dark reflector with a slight shadow. | |
| 70830 | Magnetic | 412230 | 5850469 | A2 | - | - | - | 88 | Medium distinct negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|--------------------------------------|
| 70831 | Dark reflector | 412223 | 5849946 | A2 | 2.3 | 0.8 | 0.3 | - | Distinct, straight elongated dark reflector with a broad shadow. | |
| 70832 | Debris | 412148 | 5850351 | A1 | 1.6 | 0.3 | 0.5 | - | Small dark reflector, not particularly distinct, identified towards the bow of wreck 70834. Likely to be items of debris associated with wreck. | |
| 70833 | Debris | 412143 | 5850353 | A1 | 0.9 | 0.6 | 0.6 | - | Small dark reflector identified at the bow of a wreck. Partially obscured by the wreck shadow. Possible similar debris identified nearby (70832). Likely to be items of debris associated to wreck 70834. | |
| 70834 | Wreck | 412105 | 5850354 | A1 | 66.0 | 12.8 | 6.4 | 147 | Wreck of the steam screw barque Xanthe (UKHO) sunk in 1869. Identified on the sonar data as a distinct, upright wreck. Wreck appears to be relatively intact, with some possible straight deck features and some associated items of debris. In the bathymetry data the wreck consists of one distinct target aligned east to west, lying on the seabed at a depth of 29m. Wreck is identified on the magnetometer data as a medium magnetic anomaly. UKHO record states that the original dimensions were 62.2m x 8.5m x 4.9m and that the wreck was last observed in 2002, with dimensions of 55m x 10m x 7m. | 10660 (UKHO); 892273 (NRHE) |
| 70835 | Magnetic | 411891 | 5850871 | A2 | - | - | - | 66 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70836 | Magnetic | 411629 | 5850952 | A2 | - | - | - | 49 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70837 | Rope/chain | 411622 | 5850101 | A2 | 67.1 | 1.1 | 0.3 | 64 | Long and reasonably straight linear dark reflector with slight height. Possible rope or chain. Has a medium magnetic anomaly associated indicating ferrous debris. | |
| 70838 | Rope/chain | 411607 | 5850260 | A2 | 128.2 | 0.4 | 0.4 | - | Long and thin curvilinear dark reflector with slight height. Possible rope/chain, feature curves round in a loop at one end. | |
| 70839 | Rope/chain | 411475 | 5850313 | A2 | 105.3 | 0.5 | 0.5 | 35 | A long, thin and curvilinear dark reflector with a slight shadow, likely long length of rope or chain. Has a small magnetic anomaly associated indicating ferrous debris. | |
| 70840 | Magnetic | 411359 | 5850463 | A2 | - | - | - | 308 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70841 | Magnetic | 411189 | 5850739 | A2 | - | - | - | 327 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70842 | Magnetic | 411177 | 5850603 | A2 | - | - | - | 662 | Large negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70843 | Magnetic | 411154 | 5850789 | A2 | - | - | - | 40 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70844 | Debris | 411081 | 5851344 | A2 | 7.1 | 0.4 | 0 | - | Short, narrow curvilinear bright reflector identified in an area of rippled seabed. | |
| 70845 | Magnetic | 410999 | 5851831 | A2 | - | - | - | 44 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70846 | Magnetic | 410993 | 5850260 | A2 | - | - | - | 39 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70847 | Debris | 410940 | 5851086 | A2 | 35.3 | 0.4 | 0.4 | - | Relatively straight linear item of debris, orientated east - west, with an irregular, intermittent shadow. Identified in an area of textured seafloor. | |
| 70848 | Magnetic | 410900 | 5850242 | A2 | - | - | - | 63 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70849 | Magnetic | 410851 | 5851515 | A2 | - | - | - | 33 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70850 | Magnetic | 410795 | 5851571 | A2 | - | - | - | 38 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70851 | Magnetic | 410762 | 5850475 | A2 | - | - | - | 95 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70852 | Magnetic | 410694 | 5849930 | A2 | - | - | - | 40 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70853 | Magnetic | 410575 | 5851709 | A2 | - | - | - | 48 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70854 | Magnetic | 410573 | 5851587 | A2 | - | - | - | 61 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70855 | Magnetic | 410464 | 5851920 | A2 | - | - | - | 67 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70856 | Rope/chain | 410452 | 5851174 | A2 | 43.4 | 0.3 | 0.2 | 94 | Long length of a slightly curvilinear dark reflector with a slight shadow. Possible rope or chain. Has a medium magnetic anomaly associated indicating ferrous debris. | |
| 70857 | Magnetic | 410399 | 5851420 | A2 | - | - | - | 46 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70858 | Magnetic | 410367 | 5850127 | A2 | - | - | - | 206 | Large dipolar anomaly only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70859 | Magnetic | 410341 | 5851681 | A2 | - | - | - | 43 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70860 | Magnetic | 410327 | 5849961 | A2 | - | - | - | 134 | Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 70861 | Magnetic | 410266 | 5850427 | A2 | - | - | - | 26 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 70862 | Magnetic | 410254 | 5851569 | A2 | - | - | - | 62 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70863 | Debris field | 410221 | 5851797 | A2 | 29.9 | 12.8 | 0.9 | 40 | Small patch of disturbed seafloor. Appears to be slightly darker reflector with some objects with height. Has a small magnetic anomaly associated indicating ferrous debris. | |
| 70864 | Magnetic | 410145 | 5850132 | A2 | - | - | - | 84 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70865 | Magnetic | 410080 | 5850090 | A2 | - | - | - | 79 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70866 | Magnetic | 410048 | 5851912 | A2 | - | - | - | 70 | Medium anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70867 | Magnetic | 409983 | 5851893 | A2 | - | - | - | 34 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70868 | Magnetic | 409858 | 5851319 | A2 | - | - | - | 170 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70869 | Magnetic | 409809 | 5850446 | A2 | - | - | - | 198 | Medium asymmetric dipole Identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70870 | Magnetic | 409231 | 5851189 | A2 | - | - | - | 415 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70871 | Rope/chain | 409224 | 5851490 | A2 | 27.9 | 0.3 | 0.2 | - | Short, relatively straight linear item of debris possibly with a slight shadow. Not particularly distinct. | |
| 70872 | Magnetic | 409102 | 5850383 | A2 | - | - | - | 81 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70873 | Magnetic | 408920 | 5850554 | A2 | - | - | - | 21 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70874 | Rope/chain | 408842 | 5850853 | A2 | 71.8 | 0.2 | 0.2 | - | Curvilinear item of debris with a slight shadow. Possible rope or chain. | |
| 70875 | Dark reflector | 408818 | 5851046 | A2 | 3.7 | 1.5 | 0.4 | - | Small round dark reflector with a brighter reflector in the centre and a distinct, irregular shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70876 | Magnetic | 408780 | 5850544 | A2 | - | - | - | 48 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70877 | Magnetic | 408775 | 5851203 | A2 | - | - | - | 154 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70878 | Magnetic | 408658 | 5852225 | A2 | - | - | - | 25 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70879 | Magnetic | 408520 | 5852354 | A2 | - | - | - | 37 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70880 | Magnetic | 408487 | 5852290 | A2 | - | - | - | 114 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 70881 | Debris | 408481 | 5850795 | A2 | 2.5 | 1.9 | 0.5 | 241 | Small, circular dark reflector with a bright reflector in the centre with a broad distinct shadow. Has a large magnetic anomaly associated indicating ferrous debris | |
| 70882 | Magnetic | 408463 | 5852212 | A2 | - | - | - | 29 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70883 | Debris | 408450 | 5850815 | A2 | 8.1 | 0.2 | 0.2 | - | Short, straight linear item of debris curved round in a 'v', or possibly two objects close together. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70884 | Dark reflector | 408420 | 5850627 | A2 | 3.1 | 2.4 | 0.6 | - | Dark circular dark reflector with a bright reflector in the centre and a distinct shadow. Some slight disturbance to surrounding sediment. | |
| 70885 | Magnetic | 408400 | 5850489 | A2 | - | - | - | 39 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70886 | Magnetic | 408392 | 5851348 | A2 | - | - | - | 33 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70887 | Magnetic | 408380 | 5851461 | A2 | - | - | - | 87 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70888 | Debris | 408377 | 5851568 | A2 | 1.8 | 1.7 | 0.5 | 54 | Small, round dark reflector with a bright reflector in the centre in a depression. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 70889 | Magnetic | 408357 | 5850798 | A2 | - | - | - | 53 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70890 | Magnetic | 408348 | 5851600 | A2 | - | - | - | 77 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70891 | Magnetic | 408329 | 5852368 | A2 | - | - | - | 90 | Medium distinctive dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70892 | Dark reflector | 408288 | 5851095 | A2 | 7.8 | 1.2 | 0.5 | - | Narrow dark reflector in a 'V' shape with a slight shadow. Looks a little irregular, may also be a slightly triangular object. | |
| 70893 | Dark reflector | 408269 | 5850876 | A2 | 5.8 | 0.9 | 0.8 | - | Straight dark reflector with a broad, distinct shadow. Object appears to be slightly rectangular | |
| 70894 | Magnetic | 408265 | 5852699 | A2 | - | - | - | 692 | Large dipole anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70895 | Magnetic | 408253 | 5850701 | A2 | - | - | - | 46 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70896 | Magnetic | 408216 | 5850658 | A2 | - | - | - | 238 | Large asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70897 | Mound | 408208 | 5851780 | A2 | 5.0 | 3.4 | 1.4 | - | Distinct dark reflector within a slight depression with a relatively broad shadow. Visible in the bathymetry as a distinct mound in the centre of a slight depression or scour measuring 17 m x 14 m x 0.6 m. | |
| 70898 | Magnetic | 408186 | 5850687 | A2 | - | - | - | 313 | Large asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70899 | Dark reflector | 408170 | 5850847 | A2 | 4.4 | 1.9 | 1.1 | - | Distinct, 'v' shape dark reflector with a distinct, tapered shadow. Some disturbance to surrounding seabed. | |
| 70901 | Dark reflector | 408137 | 5851136 | A2 | 3.3 | 0.9 | 0.7 | - | Distinct dark reflector with a broad, slightly angular shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70902 | Magnetic | 408094 | 5852138 | A2 | - | - | - | 34 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70903 | Magnetic | 408061 | 5851869 | A2 | - | - | - | 103 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70904 | Magnetic | 408025 | 5851490 | A2 | - | - | - | 220 | Large positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70905 | Dark reflector | 408005 | 5851031 | A2 | 1.6 | 1.5 | 0.3 | - | Small, circular dark reflector with a bright reflector in the centre with a distinct curved shadow. | |
| 70906 | Magnetic | 407965 | 5852058 | A2 | - | - | - | 26 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70907 | Magnetic | 407771 | 5851284 | A2 | - | - | - | 42 | Small distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70908 | Magnetic | 407756 | 5852353 | A2 | - | - | - | 54 | Medium distinctive dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70910 | Magnetic | 407667 | 5852948 | A2 | - | - | - | 57 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70911 | Magnetic | 407640 | 5853077 | A2 | - | - | - | 92 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70912 | Magnetic | 407639 | 5851465 | A2 | - | - | - | 41 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70913 | Rope/chain | 407630 | 5853193 | A2 | 92.7 | 0.8 | 0.4 | 305 | Curvilinear dark reflector with slight height possibly split apart or partially buried across its extent. Possible rope or chain orientated north-west to south-east on a relatively flat and even area of the seabed. Has a large magnetic anomaly associated indicating ferrous debris. | |
| 70914 | Magnetic | 407630 | 5852981 | A2 | - | - | - | 117 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70915 | Mound | 407613 | 5852594 | A2 | 16.0 | 15.0 | 1.9 | 128 | Large, rounded, poorly defined dark reflector with a broad, long shadow. In the bathymetry data this is visible as a large circular mound. Has a large medium magnetic anomaly associated indicating ferrous debris is contained | |
| 70916 | Dark reflector | 407518 | 5851012 | A2 | 2.6 | 0.7 | 0.6 | - | An irregularly shaped thin dark reflector, relatively straight and with a fairly broad shadow. | |
| 70917 | Magnetic | 407474 | 5853234 | A2 | - | - | - | 54 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70918 | Magnetic | 407469 | 5852212 | A2 | - | - | - | 154 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70919 | Dark reflector | 407440 | 5851807 | A2 | 4.1 | 0.5 | 0.5 | - | Dark reflector with a broad, distinct shadow. Looks quite large however image likely distorted by movement of sonar fish. | |
| 70921 | Rope/chain | 407326 | 5851962 | A2 | 69.9 | 0.5 | 0.1 | 31 | Faint linear dark reflector, curved into a 'v' shape with a rounded joint, with a slight shadow, possibly rope or chain. Has a small magnetic anomaly associated indicating ferrous debris. | |
| 70922 | Magnetic | 407291 | 5851104 | A2 | - | - | - | 193 | Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 70923 | Dark reflector | 407269 | 5851868 | A2 | 1.8 | 1.5 | 0.4 | - | Small, circular dark reflector with a bright reflector in the centre with a distinct shadow. | |
| 70924 | Magnetic | 407269 | 5851069 | A2 | - | - | - | 43 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70925 | Dark reflector | 407266 | 5851035 | A2 | 2.4 | 0.9 | 0.6 | - | Faint dark reflector with a distinct, broad shadow. | |
| 70926 | Magnetic | 407211 | 5853274 | A2 | - | - | - | 25 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70928 | Dark reflector | 407187 | 5851658 | A2 | 6.4 | 1.5 | 0.4 | - | Narrow elongated dark reflector with a broad distinct shadow. Object extends out with a very slight shadow. | |
| 70930 | Magnetic | 407157 | 5851175 | A2 | - | - | - | 22 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70931 | Magnetic | 407156 | 5851314 | A2 | - | - | - | 26 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70932 | Rope/chain | 407100 | 5851063 | A2 | 9.3 | 0.5 | 0.2 | - | Relatively short linear dark reflector with a slight shadow. Possible rope or chain identified in a relatively featureless area of seafloor. | |
| 70933 | Magnetic | 407047 | 5852501 | A2 | - | - | - | 161 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|--------------------------------------|
| 70934 | Wreck | 406929 | 5852021 | A1 | 105.0 | 46.4 | 1.9 | 1056 | Large wreck visible as numerous small objects with height, some of which are quite straight. No distinguishable structural elements are visible and it appears badly degraded, though still with some height. The wreck is orientated north to south on a relatively flat and even area of the seabed. In the bathymetry data this wreck is visible as mostly buried and broken up and situated in a depression. Has a very large magnetic anomaly associated indicating a ferrous construction. UKHO record 10554 states this is the Sheaf Water, a steamship torpedoed by a German E-Boat in 1942 with original dimensions of 97.5m x 13.1m. Previously identified in 2002 with dimensions as 110m x 25m x 2m. | 10554 (UKHO); 907463 (NRHE) |
| 70935 | Debris | 406866 | 5852138 | A2 | 4.3 | 3.3 | 1.4 | - | A triangular dark reflector with a distinct dark reflector at the front with a distinct, narrow shadow. Possible debris, located 80 m from dispersed wreck (70934) | |
| 70936 | Bright reflector | 406791 | 5851618 | A2 | 7.1 | 0.1 | 0 | - | Straight, elongated bright reflector. Possibly a shadow with no discernible contact. | |
| 70937 | Dark reflector | 406764 | 5852637 | A2 | 4.7 | 0.5 | 0.3 | - | Short straight distinct dark reflector with a broad shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70938 | Magnetic | 406737 | 5852583 | A2 | - | - | - | 39 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70939 | Dark reflector | 406699 | 5852290 | A2 | 4.2 | 0.9 | 0.4 | - | Straight, distinct dark reflector, which bends round slightly at one end, with a broad shadow. Object possibly distorted by movement of the sonar fish. | |
| 70940 | Magnetic | 406685 | 5851341 | A2 | - | - | - | 86 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70941 | Bright reflector | 406611 | 5852664 | A2 | 6.5 | 0.7 | 0 | - | Short, straight narrow bright reflector identified in an isolated area of seafloor. | |
| 70942 | Magnetic | 406605 | 5852642 | A2 | - | - | - | 358 | Large anomaly only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70943 | Dark reflector | 406587 | 5852212 | A2 | 4.3 | 1.4 | 0.3 | - | Small, circular dark reflector with a bright reflector in the centre and a distinct shadow. | |
| 70945 | Magnetic | 406516 | 5851497 | A2 | - | - | - | 37 | Small distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70946 | Rope/chain | 406463 | 5853677 | A2 | 65.1 | 0.4 | 0.3 | - | Relatively straight linear dark reflector with a shadow on a flat and even area of the seabed, possible rope or chain. | |
| 70947 | Magnetic | 406445 | 5851623 | A2 | - | - | - | 59 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70948 | Debris field | 406424 | 5852262 | A2 | 31.0 | 31.0 | -0.7 | 386 | Slightly diamond shaped debris field comprising bright reflectors with a dark reflector running through the centre. Possible scour. In the bathymetry data this is visible as a large depression with slight mound in the centre. Has a large magnetic anomaly associated indicating ferrous debris. | |
| 70951 | Magnetic | 406216 | 5852461 | A2 | - | - | - | 51 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70952 | Rope/chain | 406176 | 5852858 | A2 | 98.2 | 0.6 | 0.3 | - | A long straight and narrow linear dark reflector with a slight shadow, possible rope or chain associated or caught on wreck (70962). | |
| 70953 | Magnetic | 406141 | 5851570 | A2 | - | - | - | 65 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|--------------------------------------|
| 70954 | Wreck | 406125 | 5853694 | A1 | 73.2 | 29.6 | 5.1 | 12104 | Large wreck that appears to be mostly intact. It has numerous dark reflectors, some of which are quite straight and have long, distinct shadows. These may be deck structure visible in the sidescan sonar data. The vessel has a large height measurement and is orientated north-east to south-west on a relatively flat and even area of the seabed. In the bathymetry data this wreck appears upright with a distinct area of scour orientated south-east and a depth of 1m below the seabed. There does not appear to be any outlying debris visible. There is a very large magnetic anomaly associated indicating a ferrous construction. Associated with UKHO record 10680 of unknown wreck. Last observed with dimensions 80m x 20m x 4m in 1983. | 10680 (UKHO); 892279 (NRHE) |
| 70955 | Rope/chain | 406125 | 5852888 | A2 | 14.2 | 0.6 | 0.1 | - | Short and straight curvilinear item of debris with slight height, possibly a rope or chain. Identified close to similar linear feature and wreck (70962). | |
| 70956 | Rope/chain | 406096 | 5852907 | A2 | 82.9 | 1.1 | 0.2 | - | Very long, relatively straight and narrow dark reflector with slight height. Possibly fishing gear attached to wreck 70962. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70957 | Magnetic | 406089 | 5853496 | A2 | - | - | - | 12 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70958 | Debris field | 406085 | 5852987 | A1 | 44.4 | 19.2 | 0.2 | - | Large patch of a dispersed dark reflectors with height. Approximately four anomalies, one thin linear dark reflector and smaller anomalies. Located directly next to wreck 70962 and likely associated debris | |
| 70959 | Rope/chain | 406077 | 5853046 | A2 | 33.1 | 0.4 | 0.3 | - | Faint curvilinear dark reflector with slight height, possible rope or chain associated with nearby wreck (70962). | |
| 70960 | Rope/chain | 406070 | 5853720 | A2 | 70.1 | 0.4 | 0.1 | - | Long and thin linear dark reflector identified close to wreck. Possibly related rope or chain or modern material snagged on the wreck (70954). | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|--------------------------------------|
| 70962 | Wreck | 406058 | 5852977 | A1 | 107.0 | 43.5 | 4.0 | 30656 | A large area of dispersed wreck, visible as numerous dark reflectors, some of which are quite straight, with distinct broad shadows which may be deck structure. Parts of the hull outer edge appear intact. The wreck has a debris field (70958) and possible rope or chain features in close proximity (70952, 70955, 70956 and 70959). The wreck is orientated north to south. In the bathymetry data this wreck is recorded with a general seabed depth of 14m and is visible as one distinct target with one high point at the northern end. Has a large magnetic anomaly associated indicating a ferrous construction. In the UKHO database this is recorded as Fulgens, a steamship built in 1912 with dimensions of 93.1m x 12.9m and sunk in 1915 by torpedo. | 10556 (UKHO); 907465 (NRHE) |
| 70963 | Magnetic | 406046 | 5851855 | A2 | - | - | - | 109 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70964 | Magnetic | 406037 | 5852080 | A2 | - | - | - | 29 | Small positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70965 | Debris field | 405986 | 5853162 | A2 | 29.0 | 15.0 | 0.7 | 345 | Small patch of objects with height with distinct shadows, possible debris field. In the bathymetry data this is visible as a depression (-0.8 m) with slight mound in the centre on a slope. Has a large magnetic anomaly associated indicating ferrous debris | |
| 70966 | Magnetic | 405904 | 5854081 | A2 | - | - | - | 56 | Medium symmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70968 | Magnetic | 405841 | 5852185 | A2 | - | - | - | 58 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70969 | Rope/chain | 405828 | 5852225 | A2 | 67.2 | 0.4 | 0.2 | - | A long, thin and faint linear dark reflector with associated dark reflector. Feature appears to be in a relatively broad 'v' shape. Object on end of possible rope or chain measures 2.3m x 1.8m x 0.8m. | |
| 70970 | Magnetic | 405824 | 5851595 | A2 | - | - | - | 131 | Medium distinctive dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70972 | Rope/chain | 405726 | 5851715 | A2 | 56.7 | 0.3 | 0.4 | - | Linear dark reflector with a very slight shadow, possibly rope or chain although may just be a scar. Has a UKHO record (10553 - British fishing vessel Nikki) 13m to the north-east but no visible remains. | 10553 (UKHO) |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|--------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| | | | | | | | | | Small dipole only identified on one | |
| 70973 | Magnetic | 405678 | 5852003 | A2 | - | - | - | 28 | survey line. Indicative of possible | |
| | | | | | | | | | buried ferrous debris. | |
| | | | | | | | | | Straight, linear item of debris with a | |
| 70974 | Rope/chain | 405662 | 5853148 | A2 | 46.0 | 0.7 | 0.3 | _ | slight shadow identified in a relatively | |
| 70374 | Nope, chair | 403002 | 3033140 | 7.2 | 40.0 | 0.7 | 0.5 | | featureless area of seafloor, possible | |
| | | | | | | | | | rope or chain. | |
| | | | | | | | | | Large anomaly only identified on one | |
| 70975 | Magnetic | 405458 | 5852406 | A2 | - | - | - | 615 | survey line. Indicative of possible | |
| | | | | | | | | | buried ferrous debris. | |
| | | | | | | | | | Medium dipole only identified on one | |
| 70977 | Magnetic | 405438 | 5852011 | A2 | - | - | - | 107 | survey line. Indicative of possible | |
| | | | | | | | | | buried ferrous debris. | |
| | | | | | | | | | Straight, but relatively indistinct dark | |
| | | | | | | | | | reflector but with a clearly defined | |
| | | | | | | | | | shadow. Shadow appears to be | |
| 70978 | Debris | 405427 | 5851976 | A2 | 4.8 | 2.5 | 1.6 | 34 | slightly square with a dark reflector in | |
| | | | | | | | | | the centre. Has a small magnetic | |
| | | | | | | | | | anomaly associated indicating ferrous | |
| | | | | | | | | | debris | |
| | | | | | | | | | Distinct long and slightly curvilinear | |
| 70979 | Dark reflector | 405401 | 5852664 | A2 | 4.1 | 0.9 | 0.7 | _ | dark reflector with a distinct jagged | |
| , 55.5 | 24 (6116666) | /03.01 | 3032004 | , | | 0.5 | 0., | | shadow. Other, smaller objects | |
| | | | | | | | | | identified in the surrounding area. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 70981 | Debris field | 405293 | 5852497 | A2 | 22.7 | 11.9 | 1.0 | - | Distinct slightly rounded dark reflector with a broad shadow within a small debris field or seafloor disturbance with some large objects with height. In the bathymetry data this is visible as three slightly distinct mounds in a circular arrangement on a relatively flat and even area of the seabed, slightly more distinct than surrounding features | |
| 70982 | Magnetic | 405215 | 5853665 | A2 | - | - | - | 25 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70983 | Magnetic | 405183 | 5851919 | A2 | - | - | - | 64 | Medium negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70987 | Bright reflector | 405062 | 5852152 | A2 | 5.7 | 0.5 | 0 | - | Straight and narrow bright reflector. Not particularly distinct feature. | |
| 70988 | Rope/chain | 405057 | 5853805 | A2 | 31.9 | 0.3 | 0.2 | - | Short, slightly angular linear item of debris with height. Similar linear feature identified nearby. Possibly joined and partially buried, or split in two parts, may be rope or chain. Individually features measure 13.6m x 5.5m. | |
| 70989 | Rope/chain | 405000 | 5852448 | A2 | 38.0 | 0.3 | 0.2 | - | Dark, linear feature with a slight shadow. Possible rope or chain. | |
| 70991 | Magnetic | 404900 | 5852184 | A2 | - | - | - | 27 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 70992 | Magnetic | 404887 | 5853971 | A2 | - | - | - | 42 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70994 | Magnetic | 404787 | 5853518 | A2 | - | - | - | 39 | Small distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70996 | Magnetic | 404661 | 5854180 | A2 | - | - | - | 75 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 70997 | Dark reflector | 404657 | 5852481 | A2 | 6.8 | 0.4 | 0.3 | - | Straight dark reflector with a distinct shadow. | |
| 70998 | Dark reflector | 404649 | 5852896 | A2 | 6.1 | 0.4 | 0.2 | - | Straight narrow dark reflector with a distinct, relatively broad shadow. Similar feature identified nearly, possibly part of a longer, partially buried, linear feature (70999). | |
| 70999 | Dark reflector | 404635 | 5852909 | A2 | 9.9 | 0.2 | 0.2 | - | Straight narrow dark reflector with a distinct, relatively broad shadow. Similar feature identified nearly, possibly a longer, partially buried, linear feature (70998). | |
| 71000 | Dark reflector | 404575 | 5853973 | A2 | 3.6 | 3.1 | 1.7 | - | Slightly triangular dark reflector, not particularly distinct, with a long, narrow and bright shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71001 | Seafloor disturbance | 404559 | 5852372 | A2 | 22.0 | 5.0 | 1.1 | - | Elongated seafloor disturbance with irregular shadows or numerous objects with height close together in a line. In the bathymetry data this is visible as a linear alignment of small mounds, slightly more distinct than surrounding seabed features, aligned east to west. | |
| 71002 | Dark reflector | 404548 | 5853642 | A2 | 0.4 | 0.3 | 0.4 | - | Distinct, relatively straight dark reflector with a broad shadow. | |
| 71004 | Magnetic | 404512 | 5852601 | A2 | - | - | - | 191 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71005 | Magnetic | 404498 | 5853434 | A2 | - | - | - | 83 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71006 | Magnetic | 404490 | 5853306 | A2 | - | - | - | 28 | Small distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71008 | Debris | 404365 | 5852692 | A2 | 5.0 | 2.5 | 1.1 | 77 | Dark reflector with a broad, slightly jagged shadow, distinct feature with a medium magnetic anomaly associated indicating ferrous debris | |
| 71009 | Debris | 404352 | 5852638 | A2 | 7.0 | 5.2 | 3.0 | - | A large dark reflector with a distinct, broad shadow, appears to be broken up or partially buried and looks particularly distinct. Possibly debris. Visible in the bathymetry data as a pointed mound with a circular profile. Close to a debris field 71011 | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71010 | Dark reflector | 404340 | 5852252 | A2 | 2.6 | 0.5 | 0.4 | - | Two dark reflector objects with a broad shadow with other bright reflectors surrounding them | |
| 71011 | Debris field | 404337 | 5852642 | A2 | 23.2 | 5.1 | 1.8 | - | A large patch of dark reflectors with a long, distinct jagged shadow. Possibly debris field, feature looks particularly distinct compared to surrounding sediment. Visible in the bathymetry data as an irregular shaped large oval mound close to another smaller mound, More distinct than surrounding seabed features. Is close to a piece of debris 71009. | |
| 71013 | Magnetic | 404296 | 5854168 | A2 | - | - | - | 38 | Small negative monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71015 | Dark reflector | 404182 | 5853087 | A2 | 10.6 | 0.5 | 0.3 | - | Elongated, slightly curved dark reflector with a distinct shadow. | |
| 71016 | Dark reflector | 404136 | 5852961 | A2 | 8.0 | 0.3 | 0.3 | - | Straight, slight, dark reflector with a distinct shadow. | |
| 71017 | Debris | 404133 | 5852674 | A2 | 3.5 | 1.7 | 1.1 | 55 | Dark reflector with a distinct, slightly irregular shadow. Shadow appears to extend beyond the limits of dark reflector, has a medium magnetic anomaly associated indicating ferrous debris | |
| 71018 | Magnetic | 404133 | 5853090 | A2 | - | - | - | 130 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71019 | Rope/chain | 404118 | 5853471 | A2 | 20.9 | 0.3 | 0.3 | - | Slight linear item, not particularly distinct, with a faint shadow. Very long and thin possible rope or chain feature. | |
| 71022 | Dark reflector | 404029 | 5853119 | A2 | 9.0 | 0.3 | 0.3 | - | Long, thin and straight dark reflector with a distinct shadow. | |
| 71024 | Rope/chain | 404024 | 5854631 | A2 | 22.6 | 0.1 | 0.1 | - | Faint, curvilinear dark reflector identified with slight shadow, possible length of rope or chain. | |
| 71025 | Magnetic | 404022 | 5854153 | A2 | - | - | - | 56 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71027 | Debris field | 404000 | 5852417 | A2 | 54.0 | 16.0 | 0.8 | - | Possible debris field comprising over ten dark and bright reflectors, some long thin and distinct linear dark reflectors with shadows visible (8.2m x 0.8m x 0.7m maximum). | |
| 71029 | Debris | 403994 | 5854060 | A2 | 1.9 | 0.2 | 1.6 | 32 | Dark reflector with a long, narrow shadow. Has a small magnetic anomaly associated indicating ferrous debris | |
| 71030 | Dark reflector | 403954 | 5852726 | A2 | 4.4 | 1.0 | 0.4 | - | Straight dark reflector with a broad shadow. Feature looks fairly straight however may just be distorted by movement of sonar fish. | |
| 71031 | Debris | 403929 | 5853910 | A2 | 2.1 | 0.5 | 0.9 | 226 | Indistinct slightly irregular dark reflector with a long shadow. Full extent is possibly covered by sandy sediments. Has a large magnetic anomaly associated indicating ferrous debris. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71032 | Magnetic | 403915 | 5854331 | A2 | - | - | - | 73 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71034 | Rope/chain | 403849 | 5854418 | A2 | 13.6 | 0.3 | 0.1 | - | Faint, slightly curved linear dark reflector with a slight shadow, possibly rope or chain. | |
| 71035 | Magnetic | 403849 | 5853353 | A2 | - | - | - | 31 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71036 | Rope/chain | 403842 | 5854306 | A2 | 24.8 | 0.2 | 0.4 | 37 | Distinct, relatively straight linear dark reflector with height. Feature bends round at an angle at one end. Possible rope or chain on an otherwise featureless area of the seabed. Has a small negative monopole associated indicating some ferrous content. | |
| 71037 | Rope/chain | 403840 | 5853945 | A2 | 25.5 | 0.8 | 0.3 | - | Long and thin linear item of debris with a slight shadow. Identified in a relatively featureless area of seafloor, possible rope or chain feature. | |
| 71038 | Dark reflector | 403837 | 5853230 | A2 | 8.8 | 0.2 | 0.3 | - | A long and straight, slight, dark reflector with a distinct shadow. Identified in an area of megaripples however appears to be perpendicular to the orientation of the natural features. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71040 | Magnetic | 403822 | 5852844 | A2 | - | - | - | 54 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71044 | Magnetic | 403709 | 5853753 | A2 | - | - | - | 253 | Large asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71045 | Dark reflector | 403707 | 5853319 | A2 | 6.6 | 0.6 | 0.2 | - | Straight, slight, dark reflector with a distinct shadow in an area of relatively featureless seabed. | |
| 71048 | Magnetic | 403647 | 5853542 | A2 | - | - | - | 362 | Large dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71049 | Magnetic | 403611 | 5852965 | A2 | - | - | - | 79 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71052 | Rope/chain | 403563 | 5854315 | A2 | 92.5 | 0.3 | 0.1 | - | A long and thin linear dark reflector in a broad 'v' shape with a slight shadow, or a linear split in two/partially buried in its centre. Very long and distinct possible rope or chain, appears to be covered by sediment in parts. | |
| 71057 | Magnetic | 403467 | 5853573 | A2 | - | - | - | 54 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71058 | Dark reflector | 403457 | 5852745 | A2 | 3.7 | 1.7 | 1.5 | - | Irregular series of dark reflectors, possibly with a faint, long, narrow shadow. Possibly natural however looks a little anomalous to surroundings. | |
| 71059 | Dark reflector | 403457 | 5853696 | A2 | 2.1 | 0.6 | 0.7 | - | Short, straight dark reflector with a relatively broad shadow. | |
| 71061 | Magnetic | 403426 | 5852756 | A2 | - | - | - | 41 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71063 | Magnetic | 403407 | 5852958 | A2 | - | - | - | 539 | Large asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 71064 | Debris | 403387 | 5852775 | A2 | 35.2 | 4.0 | 0.4 | 70 | Elongated, large dark reflector with an irregular shadow. In the bathymetry data this is visible as a long and thick linear item of debris orientated north-west to south-east and possibly broken up or partially buried in parts. Has a medium dipole associated indicating ferrous debris | |
| 71070 | Dark reflector | 403224 | 5853126 | A2 | 5.4 | 1.2 | 0.3 | - | Straight dark reflector, possibly with a taller section at one end, and a distinct shadow. | |
| 71075 | Magnetic | 403157 | 5852804 | A2 | - | - | - | 66 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71076 | Dark reflector | 403156 | 5853066 | A2 | 7.9 | 0.2 | 0.3 | - | Distinct, narrow elongated dark reflector with a broad shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71077 | Bright reflector | 403155 | 5853210 | A2 | 6.2 | 1.0 | 0 | - | Short, narrow, rectangular bright reflector. Possibly a shadow but with no discernible contact. | |
| 71078 | Magnetic | 403087 | 5852984 | A2 | - | - | - | 179 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71079 | Magnetic | 403051 | 5853039 | A2 | - | - | - | 121 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71080 | Debris | 403019 | 5853862 | A2 | 4.9 | 3.5 | 1.7 | 141 | Slightly triangular dark reflector with a stronger response at the front of the feature, with a long, narrow shadow. Has a medium magnetic anomaly associated indicating ferrous debris | |
| 71081 | Magnetic | 402897 | 5853157 | A2 | - | - | - | 74 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71084 | Dark reflector | 402874 | 5852852 | A2 | 3.3 | 2.6 | 0.2 | - | A small angular object with some scour and corresponding shadow | |
| 71086 | Magnetic | 402827 | 5854036 | A2 | - | - | - | 132 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71087 | Magnetic | 402782 | 5852993 | A2 | - | - | - | 12 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71088 | Debris | 402774 | 5853831 | A2 | 6.7 | 0.3 | 0.5 | - | Straight, distinct dark reflector with a broad shadow. Possibly two linear contacts close together with a third in its shadow. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|---|------------------------|
| 71089 | Magnetic | 402761 | 5853242 | A2 | - | - | - | 25 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71091 | Dark reflector | 402636 | 5853108 | A2 | 2.0 | 1.1 | 0.4 | - | Angular object with angular scour and angular bright shadow, located in sandwaves | |
| 71092 | Magnetic | 402568 | 5853189 | A2 | - | - | - | 61 | Medium dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71093 | Magnetic | 402567 | 5853091 | A2 | - | - | - | 16 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71094 | Magnetic | 402562 | 5853209 | A2 | - | - | - | 53 | Medium positive monopole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71095 | Dark reflector | 402526 | 5853432 | A2 | 6.7 | 0.2 | 0.2 | - | Straight dark reflector with a slightly rounded shadow | |
| 71099 | Magnetic | 402443 | 5853664 | A2 | - | - | - | 49 | Small distinct negative monopole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71100 | Magnetic | 402425 | 5853407 | A2 | - | - | - | 19 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71101 | Magnetic | 402414 | 5853236 | A2 | - | - | - | 162 | Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris. | |
| 71102 | Seafloor disturbance | 402391 | 5853488 | A2 | 10.2 | 5.2 | 0.7 | - | Large irregular area of dark reflector objects with some angular bright shadows. | |





| WA ID | Classification | Easting | Northing | Archaeological Discrimination | Length (m) | Width (m) | Height (m) | Magnetic Amplitude (nT) | Description | External References |
|-------|----------------|---------|----------|----------------------------------|------------|-----------|------------|-------------------------------|--|------------------------|
| 71103 | Magnetic | 402386 | 5853657 | A2 | - | - | - | 204 | Large distinct dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71105 | Magnetic | 402357 | 5853620 | A2 | - | - | - | 100 | Medium irregular dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71106 | Dark reflector | 402355 | 5853542 | A2 | 8.3 | 1.4 | 0.6 | - | Irregular object, possibly several adjacent objects, with irregular bright shadow | |
| 71107 | Magnetic | 402341 | 5853745 | A2 | - | - | - | 35 | Small asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris with no surface expression. | |
| 71108 | Magnetic | 402332 | 5853707 | A2 | - | - | - | 40 | Small dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |
| 71111 | Dark reflector | 402228 | 5853594 | A2 | 4.1 | 0.2 | 0.2 | - | Straight, narrow dark reflector with a broad shadow | |
| 71113 | Magnetic | 402137 | 5853592 | A2 | - | - | - | 91 | Medium asymmetric dipole only identified on one survey line. Indicative of possible buried ferrous debris. | |





APPENDIX 3: GAZETTEER OF INTERTIDAL FEATURES

| WA ID | Site Type | Description | Period | NRHE / NHER | Easting | Northing |
|-------|------------|---|-----------------------------|-------------------------------|---------|----------|
| 1001 | Findspot | Prehistoric flint flake. | Prehistoric | NHER MNF46197 | 401797 | 5853261 |
| 1002 | Findspot | Prehistoric flint flake. | Prehistoric | NHER MNF46198 | 401845 | 5853227 |
| 1003 | Findspot | Prehistoric flint core. | Prehistoric | NHER MNF46202 | 401868 | 5853208 |
| 1004 | Findspot | Prehistoric flint flake. | Prehistoric | NHER MNF46203 | 401897 | 5853192 |
| 1005 | Findspot | Prehistoric flint scraper. | Prehistoric | NHER MNF46207 | 401825 | 5853256 |
| 1007 | Findspot | Flint flake. | Prehistoric | NHER MNF46200 | 402166 | 5853026 |
| 1008 | Findspot | Two prehistoric flint artefacts. | Prehistoric | NHER MNF18837 | 401802 | 5853345 |
| 1009 | Findspot | Lower Palaeolithic flint hand axe. | Palaeolithic | NHER MNF44878 | 402101 | 5853111 |
| 1010 | Findspot | Lower Palaeolithic lithic working and butchery site, comprising over 200 worked flints, environmental evidence. | Palaeolithic | NHER MNF39512 | 401935 | 5853311 |
| 1018 | Findspot | Primary Palaeolithic flint flake. | Palaeolithic | NHER MNF28062 | 402030 | 5853253 |
| 1025 | Findspot | A Palaeolithic flint implement found in the parish of Happisburgh. | Palaeolithic | NRHE 619088 | 401993 | 5853228 |
| 1033 | Findspot | Multi-period finds. | Prehistoric - post-medieval | NHER MNF44734 | 402020 | 5853226 |
| 1034 | Findspot | Blade fragment of a leaf shaped sword. | Bronze Age | NHER MNF18519 | 402009 | 5853150 |
| 1035 | Findspot | Copper alloy flanged axehead found on Happisburgh beach. | Bronze Age | NHER MNF38613 | 401923 | 5853347 |
| 1037 | Findspot | Early Saxon silver pyramid mount with garnet. | Medieval | NHER MNF56876 | 401923 | 5853347 |
| 1038 | Findspot | Medieval gold ring dating to the late 12th or 13th century. | Medieval | NHER MNF50467 | 401847 | 5853310 |
| 1045 | Lighthouse | Happisburgh Low Lighthouse was one of two lighthouses erected in Happisburgh in 1791. By 1886 the lighthouse had fallen, probably as a result of coastal erosion. In 1980, when recorded by the RCHME, remains of part of the foundations still survived <i>in situ</i> but the majority of the remains lay on the beach or had been covered by sand. | Post-medieval | NRHE 524226; NHER MNF15435 | 402104 | 5853068 |