



Hornsea Project Four: Environmental Statement (ES)

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APFP Regulation 5(2)(a)

Volume A6, Annex 5.2: Aerial Photographic and Lidar Assessment Report – Part A

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A6.5.2
Version B

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Glossary

Term	Definition
Commitment	<p>A term used interchangeably with mitigation and enhancement measures. The purpose of Commitments is to reduce and/or eliminate Likely Significant Effects (LSEs), in EIA terms.</p> <p>Primary (Design) or Tertiary (Inherent) are both embedded within the assessment at the relevant point in the EIA (e.g. at Scoping, Preliminary Environmental Information Report (PEIR) or ES).</p> <p>Secondary commitments are incorporated to reduce LSE to environmentally acceptable levels following initial assessment i.e. so that residual effects are acceptable.</p>
Development Consent Order (DCO)	An order made under the Planning Act 2008 granting development consent for one or more Nationally Significant Infrastructure Projects (NSIP).
Energy balancing infrastructure (EBI)	The onshore substation includes energy balancing Infrastructure. These provide valuable services to the electrical grid, such as storing energy to meet periods of peak demand and improving overall reliability.
Export cable corridor (ECC)	The specific corridor of seabed (seaward of Mean High-Water Springs (MHWS)) and land (landward of MHWS) from the Hornsea Project Four array area to the Creyke Beck National Grid substation, within which the export cables will be located.
High Voltage Alternating Current (HVAC)	High voltage alternating current is the bulk transmission of electricity by alternating current (AC), whereby the flow of electric charge periodically reverses direction.
High Voltage Direct Current (HVDC)	High voltage direct current is the bulk transmission of electricity by direct current (DC), whereby the flow of electric charge is in one direction.
Hornsea Project Four Offshore Wind Farm	The term covers all elements of the project (i.e. both the offshore and onshore). Hornsea Four infrastructure will include offshore generating stations (wind turbines), electrical export cables to landfall, and connection to the electricity transmission network. Hereafter referred to as Hornsea Four.
Landfall	The generic term applied to the entire landfall area between Mean Low Water Spring (MLWS) tide and the Transition Joint Bay (TJB) inclusive of all construction works, including the offshore and onshore ECC, intertidal working area and landfall compound. Where the offshore cables come ashore east of Fraisthorpe.
National Grid Electricity Transmission (NGET) substation	The grid connection location for Hornsea Four at Creyke Beck.
Onshore substation (OnSS)	Comprises a compound containing the electrical components for transforming the power supplied from Hornsea Project Four to 400 kV and to adjust the power quality and power factor, as required to meet the UK Grid Code for supply to the National Grid. If a HVDC system is used the OnSS will also house equipment to convert the power from HVDC to HVAC.
Order Limits	The limits within which Hornsea Project Four (the 'authorised project') may be carried out.
Orsted Hornsea Project Four Ltd.	The Applicant for the proposed Hornsea Project Four Offshore Wind Farm Development Consent Order (DCO).

Term	Definition
Planning Inspectorate (PINS)	The agency responsible for operating the planning process for Nationally Significant Infrastructure Projects (NSIPs).

Acronyms

Acronym	Definition
ALS	Airborne Laser Scan
ALSF	Aggregate Levy Sustainability Fund
APS	Air Photo Services
ASCII	American Standard Code for Information Interchange
BCS	British Geological Survey
CSV	Comma Separated Value
CUCAP	Cambridge University Collection of Aerial Photography
CUS	Cranfield University Soilscales
DCO	Development Consent Order
DEM	Digital Elevation Model
DSM	Digital Surface Model
EA	Environment Agency
EBI	Energy Balancing Infrastructure
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
ES	Environmental Statement
HE	Historic England
HHER	Humber Historic Environment Record
HTML	HyperText Markup Language
HVAC	High Voltage Direct Current
HVDC	High Voltage Alternating Current
Lidar	Light detection and ranging
MHWS	Mean High Water Springs
MLWS	Mean Low Water Springs
NAIS	National Archaeological Identification Surveys
NGET	National Grid Electricity Transmission
NMP	National Mapping Programme
NPS	National Policy Statement
NSIP	Nationally Significant Infrastructure Project
OnSS	Onshore Substation
PINS	Planning Inspectorate
PSR	Public Search Room
RCZAS	Rapid Coastal Zone Assessment Survey
RVT	Relief Visualisation Toolkit
OS	Ordnance Survey
SLRM	Simple Local Relief Model

Acronym	Definition
SoCC	Statement of Community Consultation
WWI	World War One
WWII	World War Two

Units

Unit	Definition
kV	Kilovolt
km	Kilometre
m	Metre

1 Introduction

1.1 Project background

1.1.1.1 Orsted Hornsea Project Four Limited (the 'Applicant') is proposing to develop Hornsea Project Four Offshore Wind Farm (hereafter 'Hornsea Four'). Hornsea Four will be located approximately 69 km offshore the East Riding of Yorkshire in the Southern North Sea and will be the fourth project to be developed in the former Hornsea Zone. Hornsea Four will include both offshore and onshore infrastructure including an offshore generating station (wind farm), export cables to landfall, and on to an onshore substation (OnSS) with energy balancing infrastructure (EBI), and connection to the electricity transmission network.

1.1.1.2 Air Photo Services Ltd (APS) was commissioned to undertake a terrestrial Aerial Photographic and Lidar Assessment within and around the onshore Hornsea Four Order Limits (i.e. the landfall, onshore export cable corridor (ECC), the OnSS including EBI, and 400 kV National Grid Electricity Transmission (NGET) connection area). This technical annex has been produced to characterise the baseline environment to inform and support [Volume A3, Chapter 5: Historic Environment](#) of the Hornsea Four Environmental Statement (ES).

1.1.1.3 This assessment has systematically examined the following data sources:

- Historic and modern aerial photographs;
- Satellite imagery data;
- Aerial imagery collected by APEM Ltd.;
- Environment Agency (EA) Lidar data;
- National Mapping Programme (NMP); and
- Humber Historic Environment Record (HHER).

1.1.1.4 This report represents the work undertaken by Air Photo Services Ltd between March 2019 and February 2020.

1.1.1.5 [Figure 1](#) presents the study area (in blue) and the Hornsea Four Order Limits (in red).

1.1.1.6 Due to the amount of data collated during the Hornsea Four Aerial Photographic and Lidar Assessment, this technical report has been split into three parts:

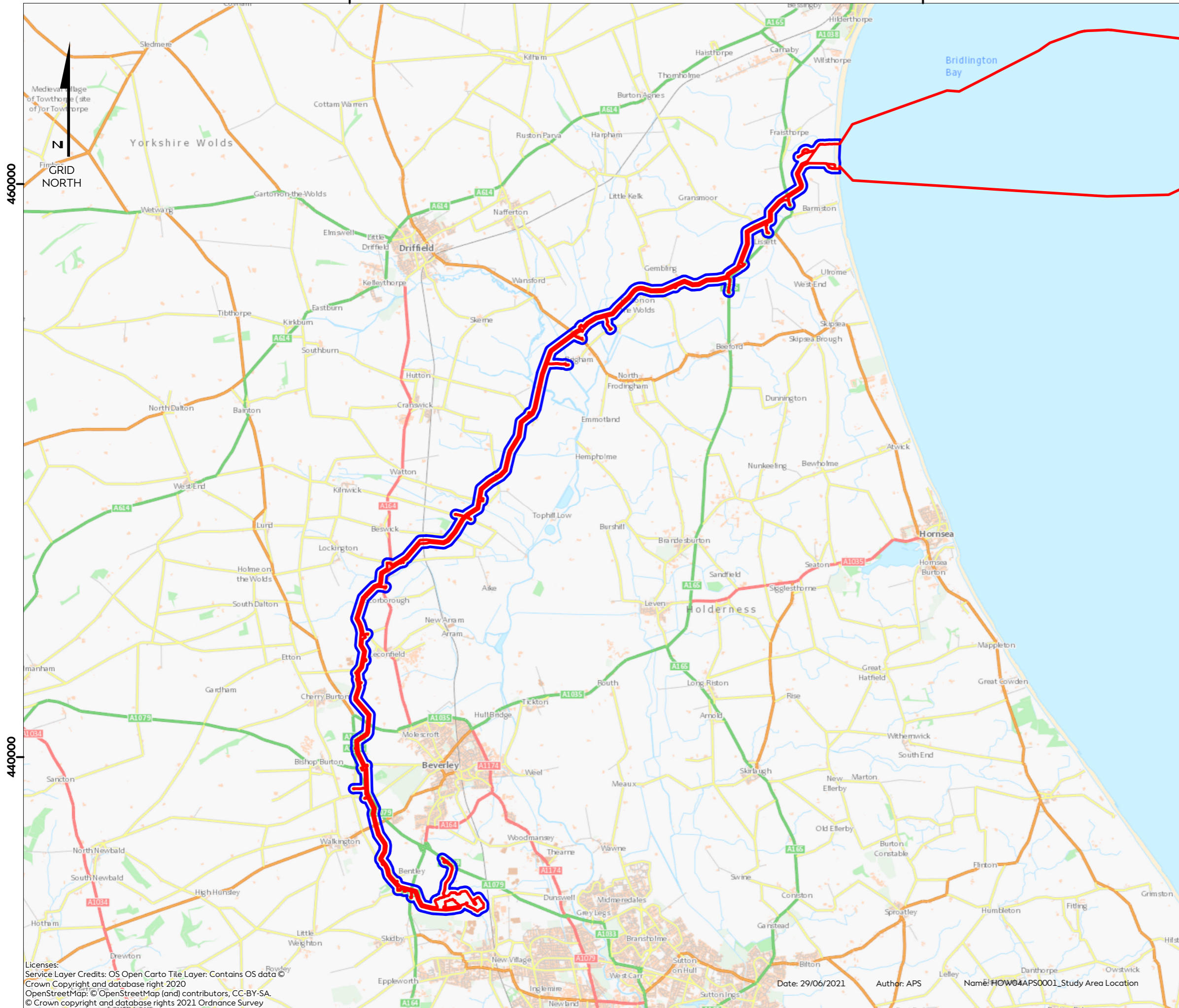
- [Annex 5.2: Aerial Photographic and Lidar Report - Part A](#) (this document) – outlines the methodology, survey results, conclusions and mitigation; and
- [Annex 5.2: Aerial Photographic and Lidar Report - Part B](#) – presents Appendix E, the data derived from the survey in a series of map books as figures (Sheets 1 -19).
- [Annex 5.2: Aerial Photographic and Lidar Report - Part C](#) – presents Appendix E, the data derived from the survey in a series of map books as figures (Sheets 20 -37).

1.2 Aims

- 1.2.1.1 The objective of this technical report is to provide information on the location and nature of buried and upstanding archaeological features. These features are visible on historic aerial photographs, modern aerial and satellite imagery and visualised Airborne Laser Scan (ALS) which is also known as Light detection and ranging (Lidar) data to assess the topographic and micro topographic features within the study area. An initial assessment was carried out in March-August 2019 and the study area was formed of a 150 m buffer around the Hornsea Four pre-DCO boundary (submitted at PEIR (Orsted 2019)). A further assessment was undertaken during January and February 2020 to account for refinements to the Hornsea Four Order Limits after the consideration of responses to formal consultation (as detailed in [Volume A1, Chapter 3: Site Selection and Consideration of Alternatives](#)).
- 1.2.1.2 The purpose of this technical report is to identify the potential for heritage asset identification through the assessment of aerial imagery and Lidar data. This report highlights the key data sources consulted, the methodologies employed, and the results and conclusions drawn from the data acquisition and processing. This technical report supports the data presented in [Volume A3, Chapter 5: Historic Environment](#).

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520000

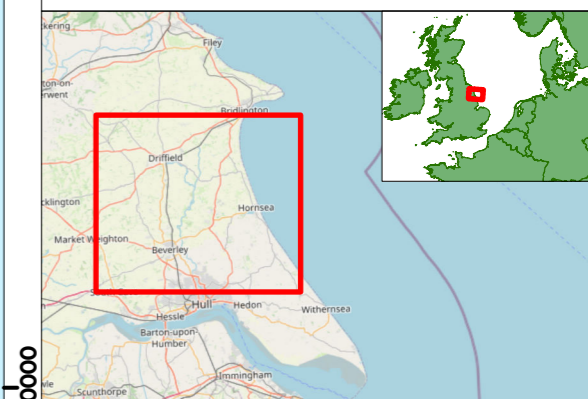


Hornsea Four

Figure 1

Study Area Location

- ▭ Order Limits
- ▭ Study Area



Coordinate System: British National Grid
 Scale@A3: 1:130,000
 0 1.5 3 6 Kilometres
 0 0.5 1 2 Miles

REV	REMARK	DATE
	First Issue for PEIR	01/10/2019
A	Updated following PEIR consultations, for DCO	29/06/2021

Title: Study Area Location
 Document no: HOW04APS0001
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Date: 29/06/2021 Author: APS Name: HOW04APS0001_Study Area Location

500000

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2 Methodology

2.1 Data Sources and Types

2.1.1.1 This survey has utilised a range of aerial imagery sources and archives in order to identify, interpret and map heritage features from the air. This section gives details about the methodology employed to search each archive, the type of data available for study and the interpretation methods applied to each data set.

2.1.2 Historic Aerial Photographs: Types

2.1.2.1 Both vertical and oblique aerial photographs were used in this survey. Vertical aerial photographs are taken for military, commercial and general purposes and used a camera mounted inside a modified aircraft. The aircraft is flown on a pre-planned set of overlapping flight lines which cover the survey area completely. The camera points directly towards the ground. The vertical viewpoint provides vertical aerial photographic coverage from a fixed scale and constant 180° angles at the centre of each frame. The overlap between the areas covered by each consecutive frame is usually 60%. This overlap between frames enables the photograph interpreter to study each pair of vertical photographs under a stereoscope and see the landscape in 3D.

2.1.2.2 Vertical aerial photographs carry inherent distortions introduced by variations in perspective and ground height but are essentially map-like in appearance. They are generally taken for non-archaeological purposes and form the basic data from which most modern maps are compiled. Vertical aerial photographs are a useful source of archaeological data, particularly in areas where features survive as earthworks and as marks in soils and crops.

2.1.2.3 Oblique aerial photographs are taken with a hand-held camera by an archaeologist to portray features which have been identified during specialist aerial survey. The photographs are extremely useful but contain inherent perspective distortions which must be accounted for with rectification and mapping procedures. They are also rather 'subjective' in their targets, and ongoing debate favours the use of 'block coverage' as a more effective way of recording archaeological landscapes. The role of the aerial archaeologist in leading these surveys is important, as is the time of year at which photographs are taken.

2.1.3 Historic England Archive

2.1.3.1 The Historic England (HE) archive in Swindon holds aerial photographs which date up to the present day from, in some cases, before World War II (WWII). Both vertical and oblique aerial photographs were available for this survey. Searching at this archive was conducted in April 2019 and February 2020. HE regularly add new photographs to their archive however this study has only examined photographs accessioned prior to February 2020. The full HE cover search is included in [Appendix A](#) and a map illustrating the coverage of air photographs by HE can be seen at [Figure 2](#). As a result of the COVID-19 pandemic, the HE archives have been closed and therefore no updates to their database have been made since the

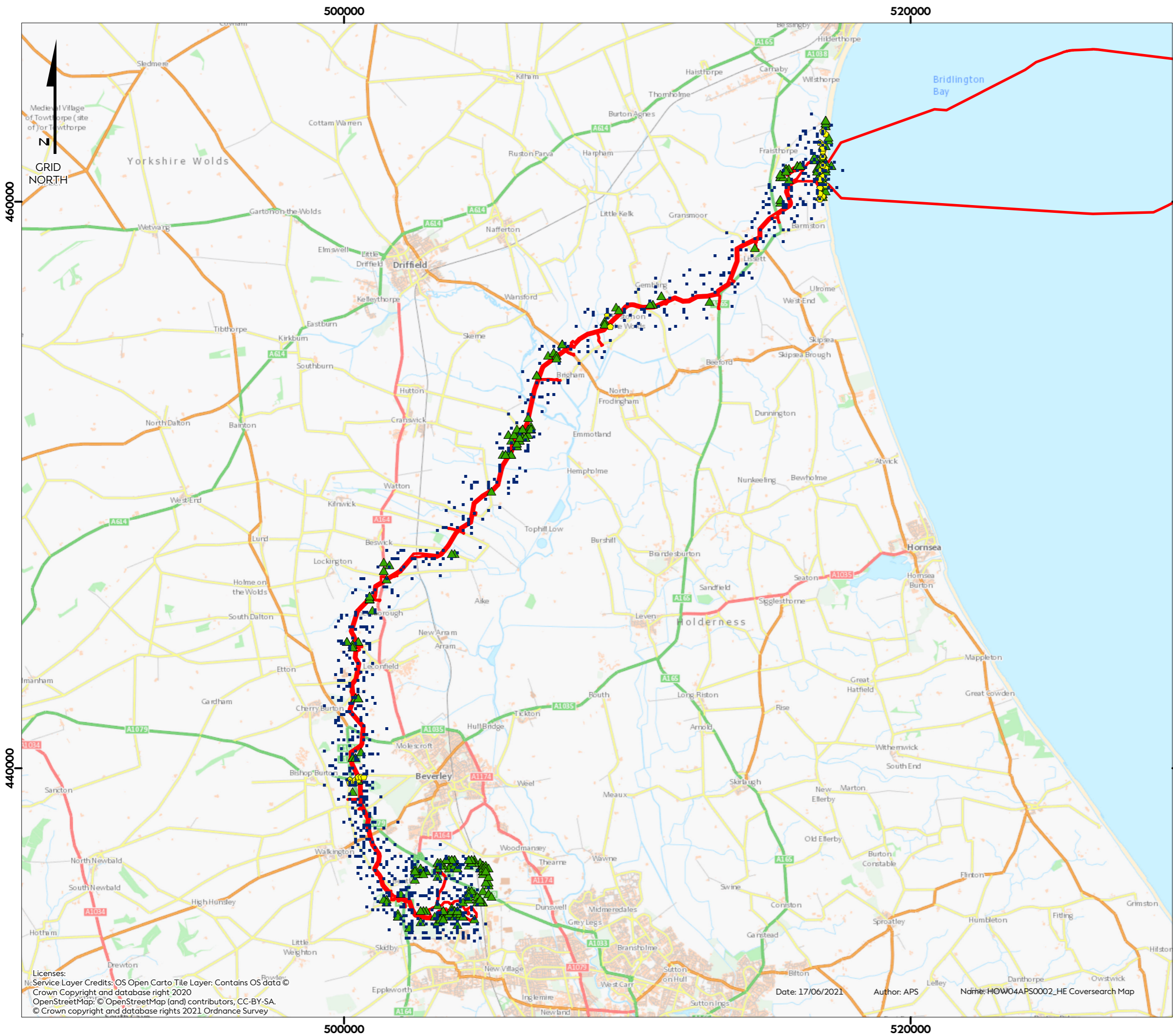
information obtained in 2020. Therefore, there have been no changes to the data that has been used to inform the AP and Lidar review that is presented in this document.

2.1.3.2 The HE archive was searched for vertical and oblique aerial images by archive staff using a HE database programme. These were then taken out of the archive and consulted by APS imagery analysts in the HE Archive Public Search Room (PSR). The images were examined by eye, under magnification, on screen in the case of more recent digital images, or as stereoscopic pairs of prints using a magnifying mirror stereoscope.

2.1.3.3 All the available photographic frames were carefully examined, located to the survey base maps and selectively photographed under HE copyright photography licenses for the survey's research purposes only. This was done with high-quality digital cameras. The images were downloaded and filed, before being checked and prepared for further interpretation and rectification.

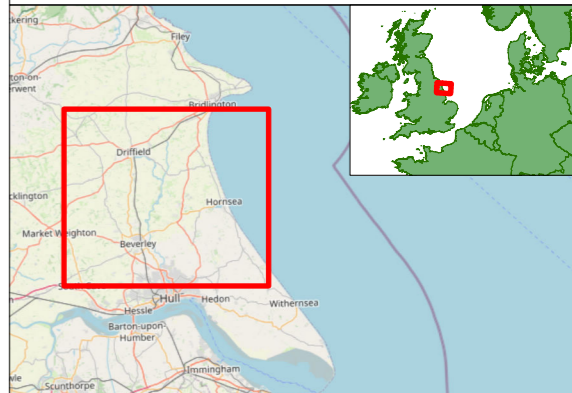
2.1.4 Cambridge University Collection of Aerial Photographs

2.1.4.1 The Cambridge University Collection of Aerial Photography (CUCAP) is stored in the Department of Geography at the University of Cambridge. This collection contains oblique and vertical aerial photographs taken with colour, monochrome and false colour infrared film emulsions. It was closed to all consultation during the data collection phase of this survey, although some small parts of the archive are being digitised it is not clear if the archive will reopen in the future. It is, however, possible to search the online repository to obtain a cover search to ascertain if CUCAP photographs cover the study area. The search was then downloaded as a Comma Separated Values (CSV) file which was used to locate and identify areas where CUCAP had taken oblique or vertical photographs of archaeological targets. This proved useful in identifying areas of potential archaeological features which were photographed by CUCAP and not covered by photographs in other archives. The full CUCAP cover search can be seen at [Appendix B](#) and a map illustrating the coverage of air photographs by CUCAP can be seen at [Figure 3](#).



Hornsea Four
Figure 2
 Historic England Aerial
 Photography Coverage

- Order Limits
- Vertical Aerial Photograph Coverage
- ◆ Military Aerial Photograph Coverage
- ▲ Oblique Aerial Photograph Coverage




Coordinate system: British National Grid
 Scale@A3: 1:130,000
 0 1 2 4 Kilometres
 0 0.5 1 2 Miles

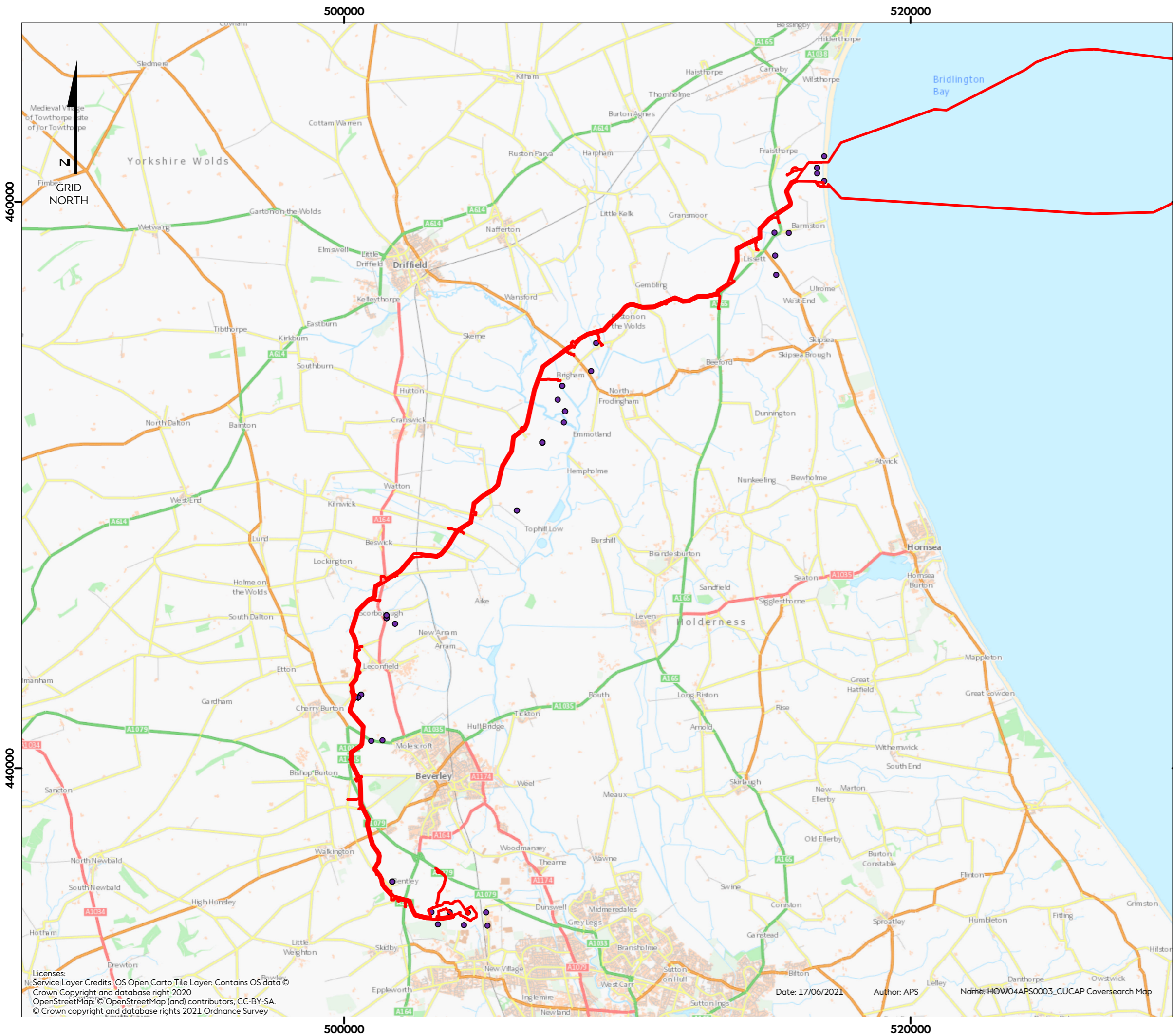
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Date: 17/06/2021 Author: APS Name: HOW04APS0002_HE Coversearch Map

Title: Historic England
 Aerial Photograph Coverage
 Document no: HOW04APS0002
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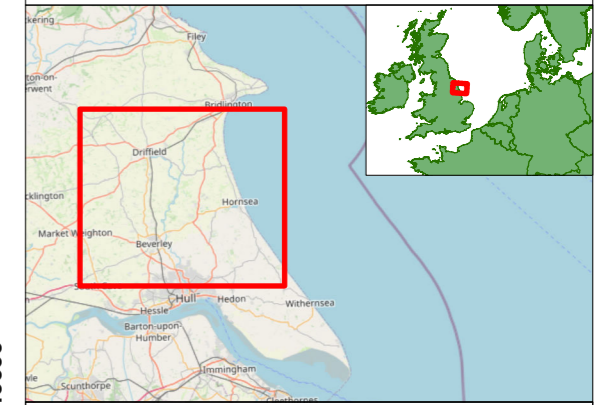


Hornsea Four

Figure 3

Cambridge University Collection of Aerial Photography Coverage

- Order Limits
- Cambridge University Collection Aerial Photograph Coverage



Coordinate system: British National Grid
 Scale@A3: 1:130,000
 0 1 2 4 Kilometres
 0 0.5 1 2 Miles

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Title: Cambridge University Collection Aerial Photograph Coverage
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2.1.5 Humber Historic Environment Record

2.1.5.1 The Humber Historic Environment Record (HHER) kindly provided access to their previously recorded heritage asset data in the form of shapefiles and a HyperText Markup Language (HTML) gazetteer of features. These were provided to Hornsea Four and shared with APS for cross referencing. The HHER also provided APS with access to their extensive aerial photograph collection, based in Hull, which APS manually searched for photographs that were located within the study area. Photographs that were identified to fall within the study area were recorded into a CSV file and loaded into QGIS. A table of photographs consulted at the HHER is presented at [Appendix C](#) and a map illustrating the coverage of air photographs, over the study area, by HHER can be seen at [Figure 4](#).

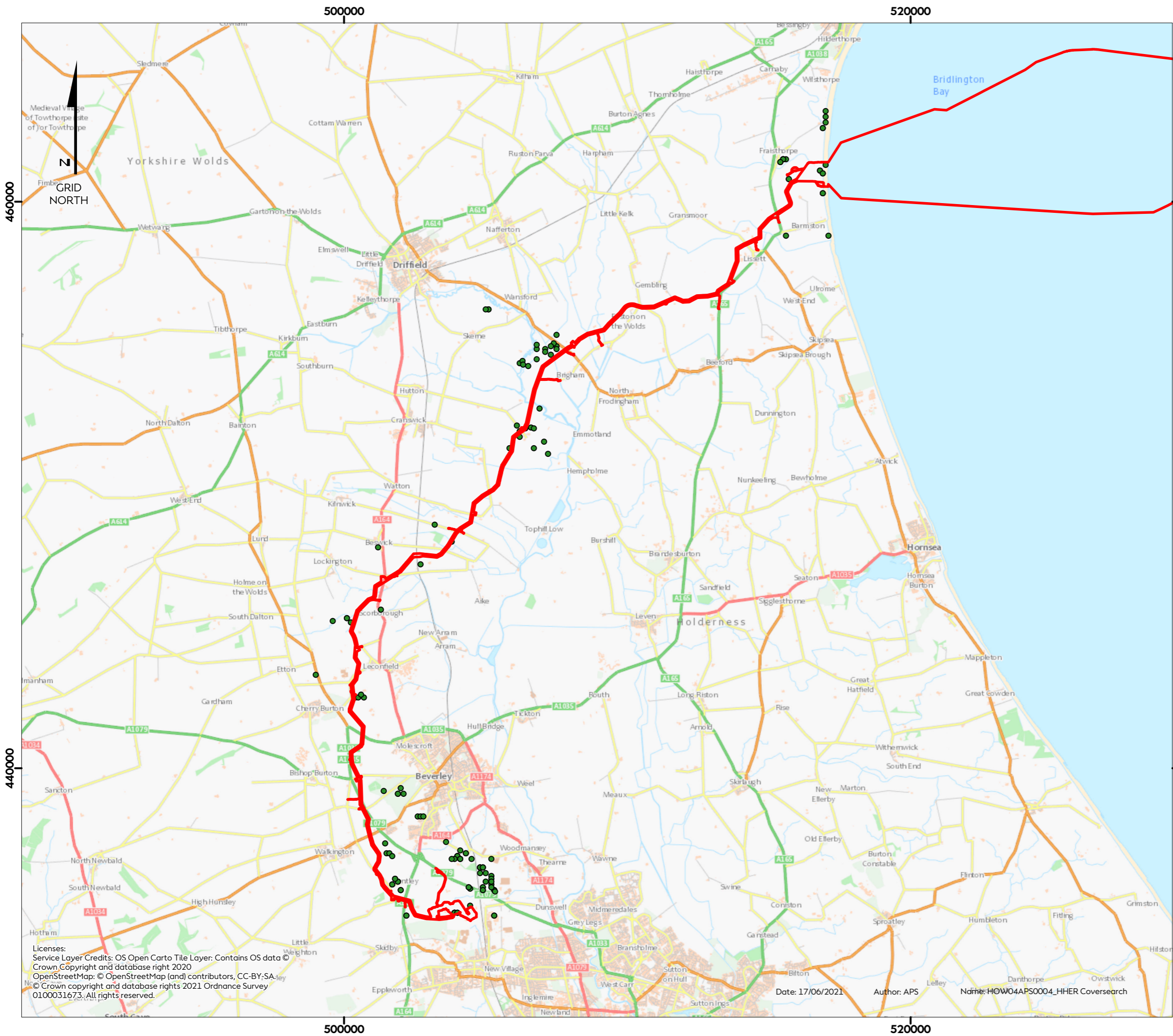
2.1.6 Online Aerial and Satellite-Derived Images

2.1.6.1 All available online aerial and satellite derived images which constitute the open-source mosaics of aerial imagery displayed on Google Earth and Bing Maps (aerial and birds-eye if available) were consulted for this survey. All timelines available on these geoportals were systematically consulted, with an end-date to the interpretation and access of 11 March 2020. Following magnification, relevant images were captured at the highest resolution using the 'save-image' function in Google Earth Pro. They were saved, labelled and filed to be used in the same way as the aerial images derived from the HE and HHER archive collections. As a result of the COVID-19 pandemic, the HE archives have been closed and therefore no updates to their database have been made since the information obtained in 2020. Therefore, there have been no changes to the data that has been used to inform the AP and Lidar review that is presented in this document.

2.1.6.2 Bing Maps was used in the same manner but with the limitations that there was a restricted single view timeline and less flexible image capture mechanisms. The Microsoft 'snipping tool' was used to capture the relevant images.

2.1.7 APEM Aerial Photo Survey

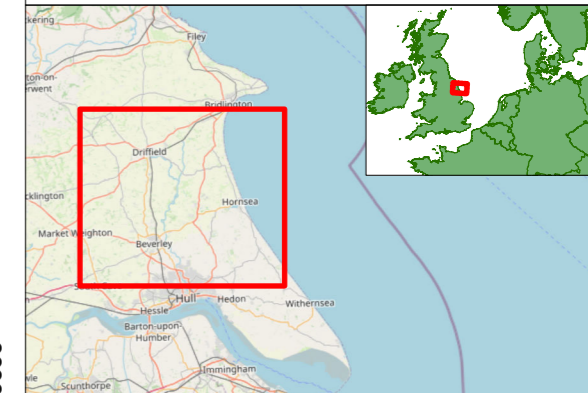
2.1.7.1 A scheme-wide aerial photo survey was completed by APEM in July 2018 and was provided to APS as tiled mosaic raster data. These tiles were loaded into QGIS and were systematically reviewed at a zoomed in scale.



Hornsea Four

Figure 4
Humber Historic Environment
Record Aerial Photograph
Coverage

- Order Limits
- Humber Historic Environment Record Aerial Photography Coverage



Coordinate system: British National Grid
Scale@A3: 1:130,000
0 1 2 4 Kilometres
0 0.5 1 2 Miles

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	First Issue for PEIR	01/10/2019
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Title: Humber Historic Environment Record Aerial Photograph Coverage
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Date: 17/06/2021 Author: APS Name: HOW04APS0004_HHER Coversearch

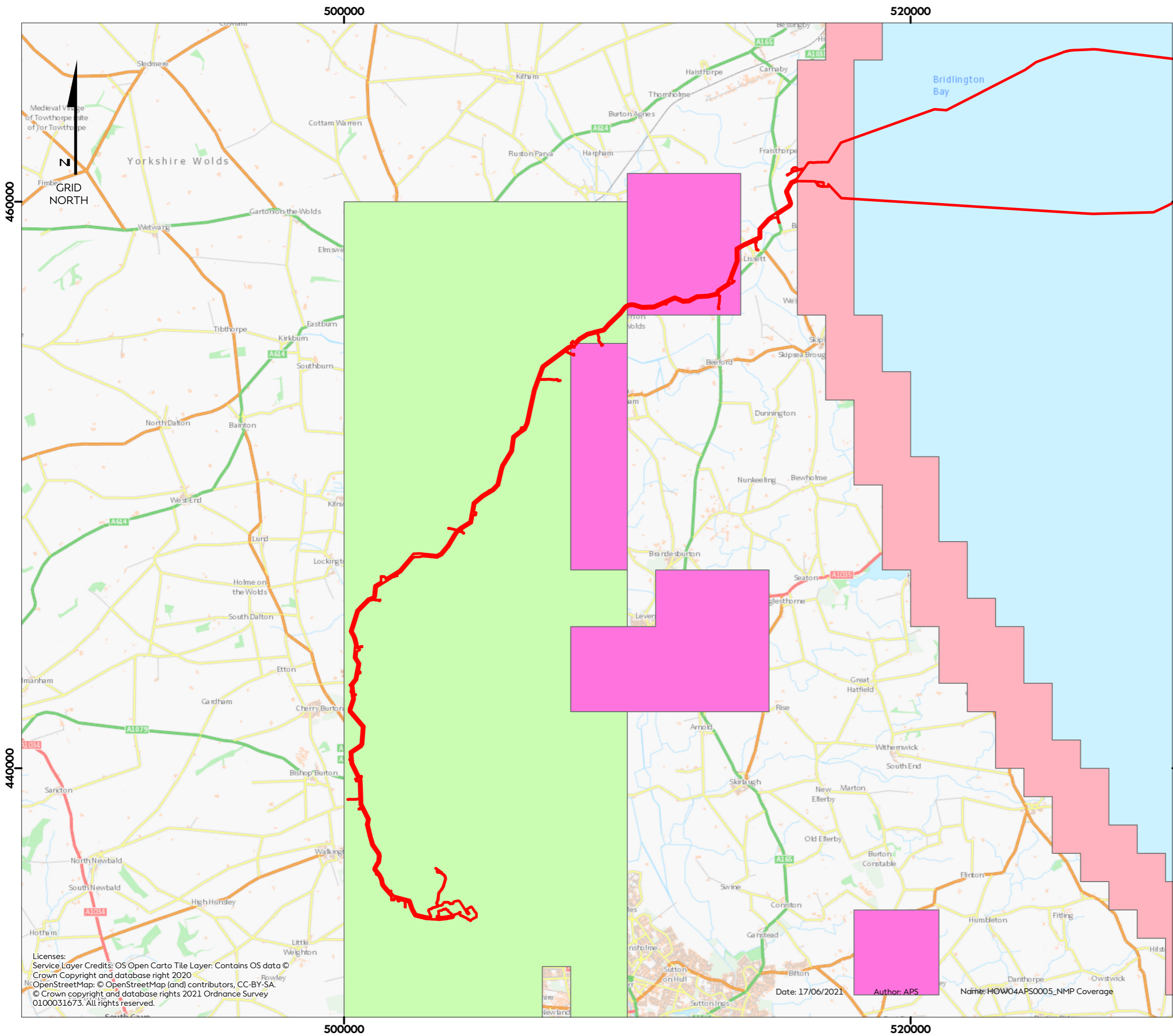
2.1.8 Historic England National Mapping Programme

2.1.8.1 The HE National Mapping Programme (NMP) is an ongoing project which utilises airborne data sources to record heritage assets. Earlier NMP project's outputs were hand drawn and more recent projects record assets digitally as shapefiles. The NMP data for this study were drawn from the NMP projects listed in [Table 1](#) and a map detailing the coverage for each project can be seen at [Figure 5](#). This map shows all NMP/Aerial Investigation and Mapping projects with available data in February 2020. A further project, the Holderness National Archaeological Identification Survey (NAIS), is a planned but not completed project, as informed by Historic England's 2020 SHP file database of NMP projects which was provided to APS in February 2020. As a result of the COVID-19 pandemic, the HE archives have been closed and therefore no updates to their database have been made since the information obtained in 2020. Therefore, there have been no changes to the data that has been used to inform the AP and Lidar review that is presented in this document.

2.1.8.2 These data provide a baseline of aerial photographic interpretation which can be checked, expanded and updated. These are incorporated into the APS survey and commented upon and updated via new polygons and lines where appropriate. They were augmented by close analysis of vertical and oblique aerial photographs. Where the NMP projects have recorded features not seen during the APS survey, these data have been left unenclosed by APS extent of area polygons. The data were supplied to APS via the HE archive as shapefiles and were incorporated into GIS and attribute tables as separate acknowledged georeferenced digital layers.

Table 1: NMP Projects Consulted.

Project Name	Project Dates	Data Format
Hull Valley	October 2011 – August 2012	Shapefile – Line and Polygon
East Yorkshire ALSF	October 2007 – February 2008	Shapefile – Line and Polygon
Yorkshire RCZAS	May 2006 – April 2007	Shapefile – Line and Polygon

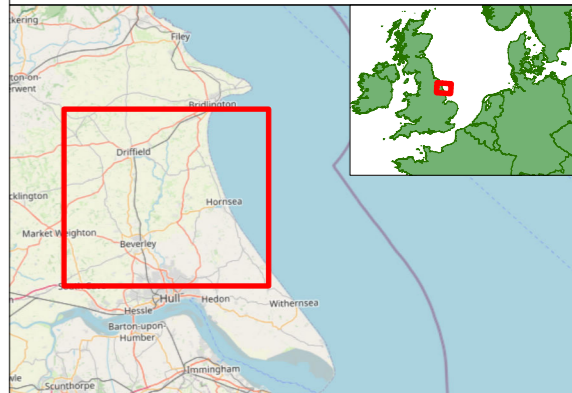


Hornsea Four

Figure 5

Historic England National Mapping Programme Coverage

- Order Limits
- East Yorkshire ALSF (Aggregate Levy Sustainability Fund)
- Hull Valley
- Yorkshire RCZAS (Rapid Coastal Zone Assessment Survey)



Coordinate system: British National Grid
 Scale@A3: 1:130,000
 0 1 2 4 Kilometres
 0 0.5 1 2 Miles

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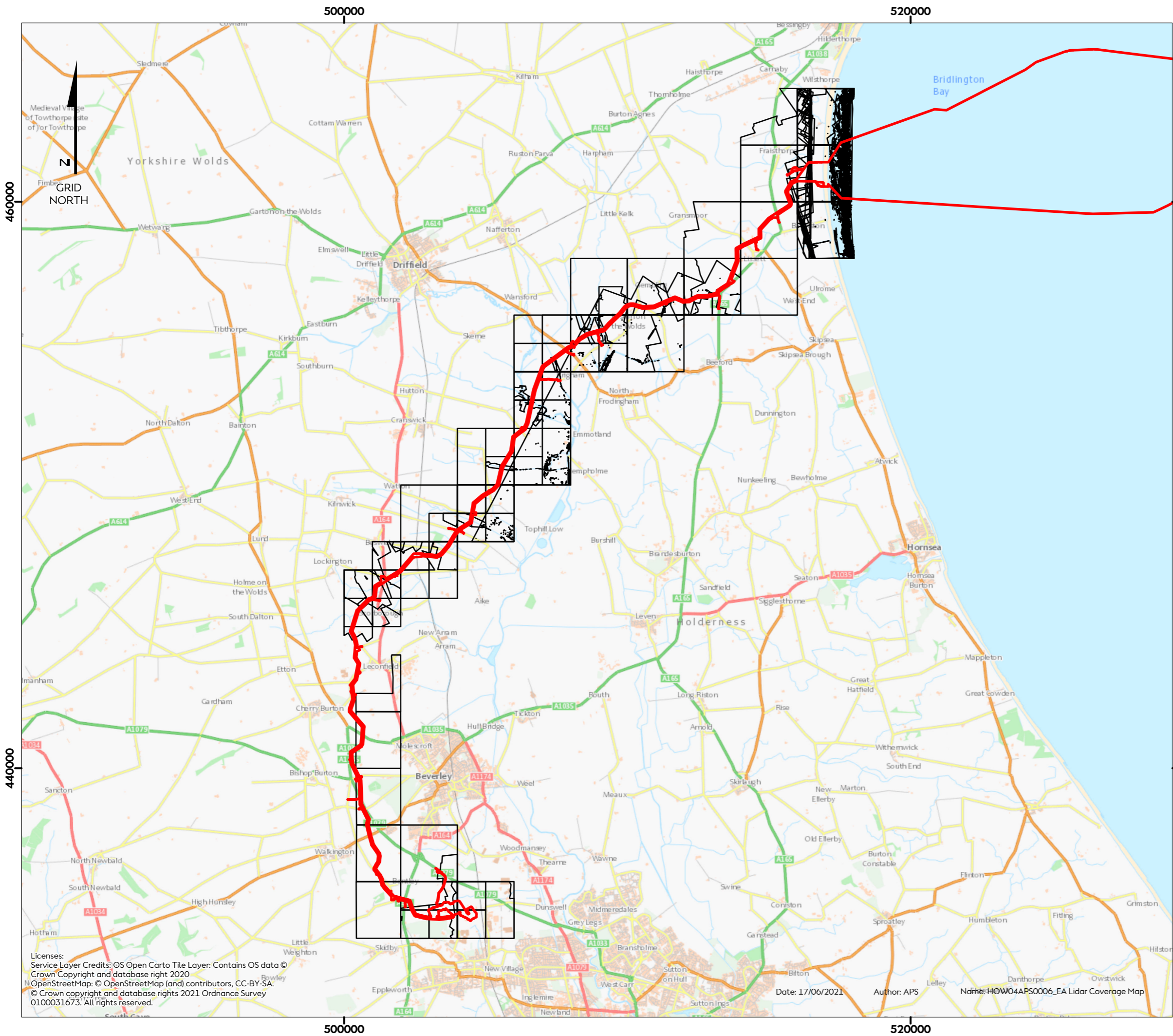
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2.1.9 Environment Agency Lidar Data

- 2.1.9.1 Lidar data have been collected from airborne survey platforms in recent years at varying resolutions, and are available for downloading, processing, visualising and interpreting via the Environment Agency (EA) website (Environment Agency 2020).
- 2.1.9.2 Lidar data indicates variation in the height of the ground surface. Data is collected by an active laser beam fired in pulses which scans the ground surface. The reflected pulses are recorded by the sensor on board a geolocated airborne survey platform, fitted with an inertial measurement unit to record the roll, pitch and yaw of the aircraft.
- 2.1.9.3 The point cloud data derived from the survey are processed into a series of Digital Elevation Models (DEM) usually in American Standard Code for Information Interchange (ASCII) format. These include Digital Surface Models (DSM) which contain tree cover and buildings, and Digital Terrain Models (DTM) which remove tree cover and can reveal features beneath the tree canopy (Bennett et al 2012; Hesse 2010; Štular et al 2012).
- 2.1.9.4 These data are of assistance in recording micro and macro topographic features which may indicate relict or extant archaeological features and historic landscapes alongside more modern features. Lidar data are best interpreted and used in conjunction with modern and historic aerial photographs and maps to provide ground truth information for features and sites recorded via this prospection method.
- 2.1.9.5 The data needed were identified by using the EA timestamp shapefile detailing the Lidar file names within the area of interest and the Ordnance Survey 10 km and 5 km grid square to identify the grids and quarter sheets. DTMs were selected as the primary data source as the ability to remove the tree canopy makes it ideal for prospection. All available Lidar data for this site were downloaded for completeness of evidence. The metadata for the Lidar downloaded for this assessment can be seen at [Appendix D](#) and a map detailing the coverage can be seen at [Figure 6](#).
- 2.1.9.6 The data were visualised into Hillshade, Multi Directional Hillshade, Simple Local Relief Model (SLRM), Sky View Factor, Open Positive and Open Negative using the Relief Visualisation Toolkit (RVT) Version 1.2. These visualisations were chosen as they are of most use for archaeological prospection. The multiple ASCII tiles were merged before being visualised for ease of use in the GIS. The data were analysed alongside the aerial photographs and base mapping to double check the topography and nature of features interpreted from Lidar data.
- 2.1.9.7 An additional SLRM was created using a simplified process based upon the methodology proposed by Hesse (Hesse 2010). A low pass filter was applied to nearest neighbour resampling, and the resampled model was removed from the original DTM creating a Local Relief Model. This was then processed through the RVT with a smoothing factor of 20 m.

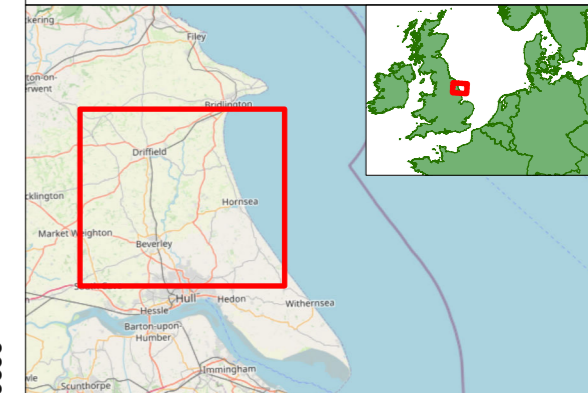


Hornsea Four

Figure 6

Environment Agency Lidar Coverage

- Order Limits
- Environment Agency Lidar Coverage All Years and Resolutions



Coordinate system: British National Grid
 Scale@A3: 1:130,000
 0 1 2 4 Kilometres
 0 0.5 1 2 Miles

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2.2 Data Collection

2.2.1.1 The data collection and mapping for Hornsea Four was split into two stages. The details of each stage are outlined in the following sections.

2.2.2 Stage One: Outline Mapping

2.2.2.1 Stage One was undertaken initially to identify archaeological assets through 'APS Site Polygons'. These polygons indicate the extent of area around a feature or group of archaeological features or, in the case of ridge and furrow, the surrounding field boundaries. A detailed supporting attribute table was compiled at this stage detailing the following for each feature:

- APS Site Number;
- Asset Type;
- Broad Type;
- Evidence Type (1-10);
- Source (1-10);
- Period;
- Monument ID Number;
- NMP Unique ID Number;
- Comment;
- By;
- Supplier;
- Client;
- Project;
- Easting;
- Northing;
- National Grid Reference;
- Map Source; and
- Map Book Number.

2.2.2.2 This process created the remote sensing database which forms the basis for all detailed mapping and analysis.

2.2.3 Stage Two: Detailed Mapping

2.2.3.1 At Stage Two, detailed mapping was undertaken within the previously identified site polygons, to reflect the extent of features. Polygons were used to map all features except for ridge and furrow, where a single directional line was added to all ridge and furrow site polygons.

2.3 Data Processing

2.3.1.1 The collected digitised photographs and images were labelled and archived and selected frames were geo-rectified to the Ordnance Survey (OS) digital map base with the QGIS rectification tool for interpretation and mapping. Interpretative or source queries were

addressed as appropriate by further reference to the archived photographs in the survey files, or directly against stereo pairs and obliques in the HE and HHER archives.

- 2.3.1.2 Following comparison to other airborne sources and HHER data, polygons were digitised around the extent of features identified, and a site database created in QGIS as an attribute table within a shapefile. When all data sources had been examined, interpretative lines and polygons were digitised to further shapefiles to indicate the form, extent and type of features.

2.4 Data Presentation

- 2.4.1.1 The data were presented in shapefile data format within the project GIS. A shapefile contains geographical reference data as individual objects such as a ditch, a bank, a structure or a coordinate area. Features exist as 'objects' and their 'attributes' where the interpretations are recorded within the shapefile.
- 2.4.1.2 In addition to the shapefile, the data derived from the survey are presented in a series of map books as figures to this report in [Appendix E \(Annex 5.2 – Aerial Photo and Lidar Report – Part B](#) and [Annex 5.2 – Aerial Photo and Lidar Report – Part C](#)). The map books present keyed, labelled and individually numbered illustrations at a consistent scale.
- 2.4.1.3 The data are also presented as a results table ([Table 3](#)), which can be seen at [Section 4](#). The table is derived from selected attributes within the main feature mapping shapefile. It summarises the location, type and interpretation of each individually identified site or area of features.
- 2.4.1.4 The archaeological assets identified during the initial assessment (March – August 2019) were assigned a reference from 001 to 265. Following a further assessment undertaken during January and February 2020, the additional archaeological assets identified were assigned a reference from 301 to 316. The reference numbers 266 to 300 have not been used and therefore do not exist in the dataset.

2.5 Assumptions and Limitations

2.5.1 Introduction

- 2.5.1.1 Remote sensing is a non-intrusive survey method, and not all features which are identified may be accurately dated by this means.

2.5.2 Historic aerial photographs

- 2.5.2.1 The assumption that aerial photographic survey and vertical and oblique aerial photographs show all features and will reveal a complete archaeological record in a given area is erroneous. This is due to many interactive survey, seasonal, environmental, meteorological and perception and interpretation issues which are set out below.

- 2.5.2.2 Interpretation of aerial photographs relies either on visual identification of the effect heritage assets have on crops and other vegetation, marks in soils or visible features or earthworks which are more visible at times of clear low light.
- 2.5.2.3 It is important to note that aerial photographs usually only shows part of the horizontal and vertical extent of buried and upstanding features. Their capacity to reveal features as cropmarks, vegetation marks, soil marks or as the shadows cast by banks, ditches and walls, depends upon several environmental and agricultural factors prevalent at the time of the photographic survey. It is possible for many years' photography over one site to show nothing at all, and then during one instance of survey to reveal complex buried cropmark features. The direction of light at the time of photography, with reference to shadows cast and crop or soil marked features highlighted, can also affect the visibility of features on aerial photographs. Unlike digitally processed Lidar and other data, the azimuth of the sun cannot be changed on a conventional aerial photograph.
- 2.5.2.4 Past and present land use also presents limitations to visibility of features. A cropped arable regime of cereals often allows the formation of cropmarks, whereas grassland, unless seen in times of extreme moisture stress, can mask the appearance of buried features. The time of year is thus important in gaining maximum benefit from aerial photographic sorties. In winter, the low leaf index and lower light angle assists visibility of topographic and earthwork features. In summer, ripening crops, often from April through to harvest in July/August, may show differential marks over buried features. Dry conditions will often cause parching in grass, which will then reveal areas of former foundations as the grass dies over the harder less moisture retentive buried features. Following harvest, weathering and ploughing, marks in soil often show where buried archaeological deposits are being actively ploughed and brought to the surface.
- 2.5.2.5 Aerial photographs cannot be used to detect features in heavily wooded areas whilst Lidar survey may penetrate gaps in the tree canopy to provide a DTM of the ground surface beneath.
- 2.5.2.6 In constructing a comprehensive interpretation of the archaeological landscape, it is thus advantageous to examine a range of photographs, taken under a variety of environmental conditions.
- 2.5.2.7 The aerial photographs taken in the 1940s often recorded extant medieval fields and provided a starting point for the assessment of how modern ploughing methods have contributed to erosion and the attrition of features. In turn, the typical ridges and furrows caused by the medieval turning of a heavy ox-drawn plough often masks underlying deposits on aerial imagery.
- 2.5.2.8 The remit of past oblique aerial surveys, the survey areas chosen and the visibility of sites to the aerial archaeologist can often determine the content and coverage of oblique aerial photography. Observer led flights may be heavily biased and may miss features which were present but were not seen or recorded. This is apparent when comparing vertical aerial photographs taken at times when crops were responsive to concurrent oblique observer-led

surveys. In these instances, vertical photographs often record much more extensive cropmark landscapes than the observer-led oblique photographs.

- 2.5.2.9 It is also important to note that the perception of the environment and expectation of what is to be found may often limit the air photo analyst's mental 'openness' to features. This perception factor is mitigated by repeated examination of imagery taken in different years and under different conditions, and by teamwork between two or more interpreters checking the data. 'Photo fatigue' is also a factor in drop-off rates of discovery or perception of features. It is mitigated by alternating activities and personnel, checking interpretations with other team members and taking adequate visual breaks, particularly when using a stereoscope to examine large sorties over extensive areas of land.

2.5.3 Online aerial photographs and satellite-derived images

- 2.5.3.1 Google Earth regularly uploads new images and attributes some images with the name of the provider and a date of capture. These dates are not verified, but for archaeological survey this is not a legally essential element of the metadata. The issue with data derived from geoportals such as Google Earth is that it changes and is added to; it is a dynamic collection of varied mosaiced dated images and varied resolutions of data derived from aerial photography and satellite imagery. During 2017-2018, Google began to capture its own data, and these layers are largely 'unattributed' in terms of provider. The main UK providers to Google Earth include Getmapping, Infoterra & Bluesky, The GeoInformation Group, Digital Globe (satellite) and Spot and Landsat (varied and often low resolution). The mosaic 'cuts' where images have been blended together and captured in different seasons are readily apparent, often within the same 'timeline' data.

- 2.5.3.2 The same limitations outlined above apply to mosaiced vertical aerial photographs which are gathered for specific purposes, often at different times. These sorties are helpful in that they provide a very high resolution georeferenced aerial photographic base for the survey, which aids the georeferencing and interpretation of older photographs and comparative analysis of images taken at different times. However, as is the case with many 'block coverage' surveys, the timing is often not optimal for the gathering of heritage data.

2.5.4 National Mapping Programme

- 2.5.4.1 The NMP data are derived from aerial photographs, and the same sources have been re-examined for this survey. The main limitation of the NMP data is that the NMP is an 'overview' survey. The NMP data are of high quality, but as expected, additions have been made to it from newly available airborne and remote sensing data sources.

2.5.5 Remote sensing limitations: conclusion

- 2.5.5.1 Aerial photograph assessments are often based on sequences of historical imagery which provide a series of 'snapshots' of the landscape under different conditions. In contrast, Lidar and multi-spectral data are typically gathered at a single or series of closely spaced points in time. Levelled features which are now only visible as cropmarks are not usually visible via

Lidar data unless they are recorded as substantially differing vegetation heights within a DSM, or the features causing the cropmarks are still extant as micro topographic differences in the ground surface. The limitations of these data sources are appreciated and considered during survey and use of multiple data sources and multiple times of survey increases the discovery rate and certainty of interpretation from all remote sensing data sources when they are examined concurrently.

3 Desktop Review

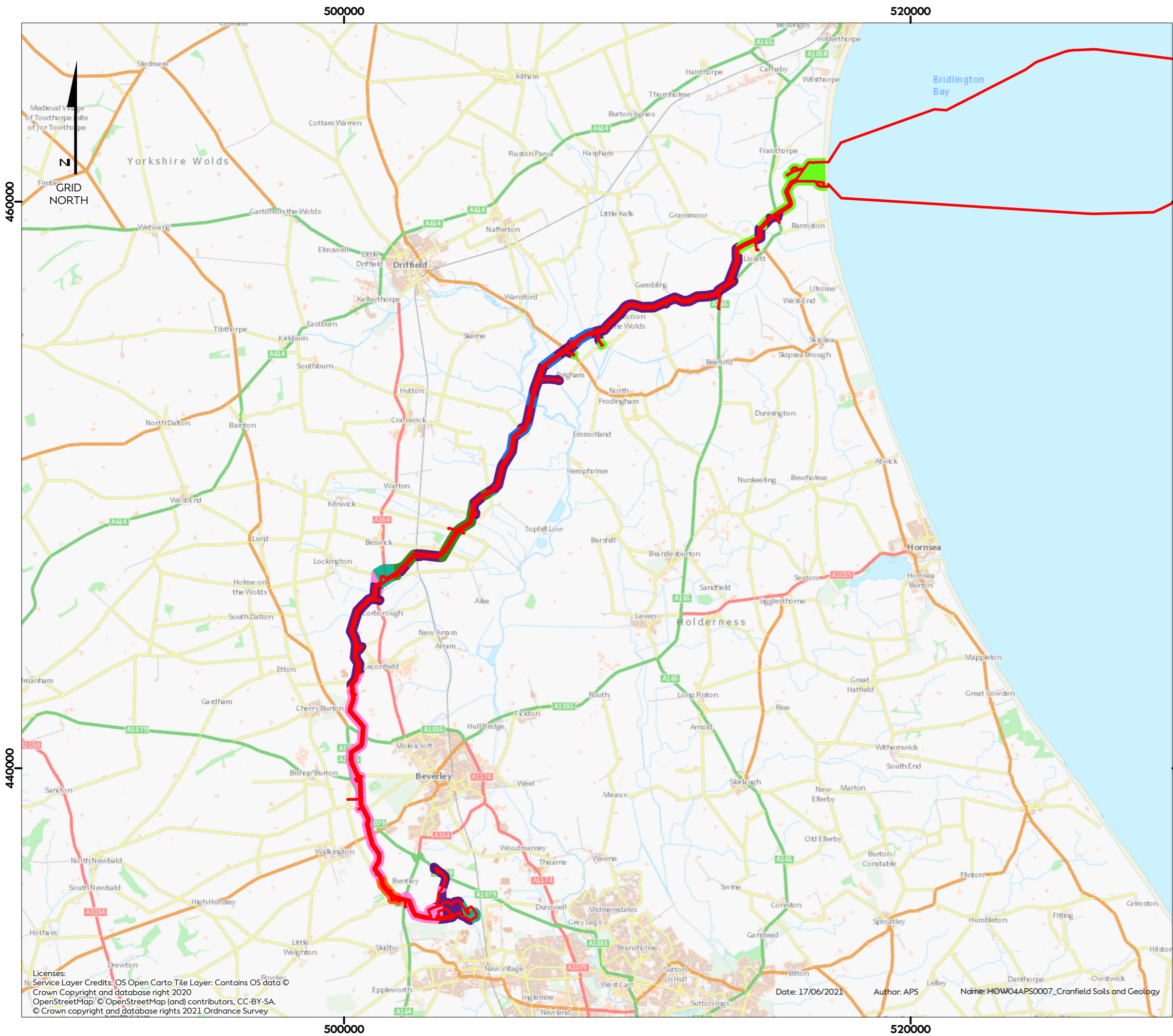
3.1 Topography, Land Use, Geology and Soils

- 3.1.1.1 Hornsea Four lies within a relatively flat landscape with very occasional low and gently sloped hills. The area is dominated by agricultural fields, with a few small areas of woodland, crossed in places by roads and watercourses. A significant number of farms, hamlets and small villages dot the landscape, with the great majority located along the edge of, rather than within, the study area. Further information regarding the topography, land use, geology and soils of the study area can be seen in the [Volume A6, Annex 5.4: Geoarchaeological Desk Based Assessment](#).
- 3.1.1.2 The British Geological Survey (BGS) records a range of superficial geologies within the study area. The majority of the area is recorded as 'Till, Devensian – Diamicton' which was formed in the Quaternary period as part of an environment previously dominated by ice age conditions (BGS 2019). These superficial deposits are present across the full length of the study area, though they are less dominant in the northern part.
- 3.1.1.3 'Alluvium – Clay, Silt, Sand and Gravel' which was formed in the Quaternary period as part of an environment previously dominated by rivers (BGS 2019), is present in thin bands in the southern part of the study area. In the middle and northern parts of the study area it is more widespread, covering significant areas.
- 3.1.1.4 'Head – Clay, Silt, Sand and Gravel' which was formed in the Quaternary period as part of an environment previously dominated by subaerial slopes (BGS 2019), is present in the southern half of the area. As with the southern areas of Alluvium, this deposit is present only as thin bands, covering a very small part of the study area. This deposit is not present in the more northerly parts of the study area.
- 3.1.1.5 'Glaciofluvial Deposits, Devensian – Sand and Gravel' which was formed in the Quaternary period as part of an environment previously dominated by ice age conditions (BGS 2019), is present in patches. These patches are sparse in the south, becoming larger and more frequent in the northern part of the study area. Similar to the alluvial deposits they cover a very significant part of the far northern end of the study area.
- 3.1.1.6 'Sand and Gravel of Uncertain Age and Origin – Sand and Gravel' which was formed in the Quaternary period as part of an environment of unknown nature (BGS 2019), is present in a limited number of small patches in the southern part of the study area.

- 3.1.1.7 All of these superficial deposits contain, or are entirely composed of, sand and gravel which can provide good results from aerial survey, dependent on the time of year and ground conditions. Clay and Silt, also present in many of these deposits, is similarly capable of providing good results. Thus, the superficial deposits across the full study area are well suited to aerial survey.
- 3.1.1.8 The BGS records three bedrock geologies within the study area: 'Burnham Chalk Formation – Chalk' covers the southern half of the study area; 'Flamborough Chalk Formation – Chalk' covers the greater part of the northern half of the study area; and 'Rowe Chalk Formation – Chalk' covers the far northeast of the study area where it approaches the coastline. All of these areas were formed in the Cretaceous period in an environment previously dominated by warm chalk seas (BGS 2019). These three highly similar bedrock deposits are very well suited to the recording of crop and soil marks over buried features from the air and are well drained.
- 3.1.1.9 Cranfield University Soilscales (CUS) also provides useful information about the geology of the study area. This data describes seven distinct soil types across the study area, which can be seen in [Figure 7](#). The soil types present are described here.
- 3.1.1.10 'Holderness', which is the most prevalent soil type within the study area, is described as 'slowly permeable, seasonally wet, slightly acid but base-rich loamy and clayey soils' (CUS 2019). This soil type is shown as dark purple in [Figure 7](#).
- 3.1.1.11 'Burlingham 2', which is present over a large part of the southern end of the study area, is described as 'Slightly acid loamy and clayey soils with impeded drainage' (CUS 2019). This soil type is shown as pink in [Figure 7](#).
- 3.1.1.12 'Downholland 3', which is present around the central part of the study area, is described as 'Loamy and sandy soils with naturally high groundwater and a peaty surface' (CUS 2019). This soil type is shown as dark green in [Figure 7](#).
- 3.1.1.13 'Frome', which is present in four patches in the northern part of the study area, is described as 'Loamy and clayey floodplain soils with naturally high groundwater.' (CUS 2019). This soil type is shown as blue in [Figure 7](#).
- 3.1.1.14 'Hunstanton', a small area of which is present at the southern end of the study area, is described as 'Freely draining slightly acid but base-rich soils.' (CUS 2019). This soil type is shown as orange in [Figure 7](#).
- 3.1.1.15 'Landbeach', which is present in two small patches around the central part of the study area, is described as 'Freely draining lime-rich loamy soils.' (CUS 2019). This soil type is shown as dark turquoise in [Figure 7](#).

3.1.1.16 'Wick 1', which is present at the far northern end of the study area, is described as 'Freely draining slightly acid loamy soils.' (CUS 2019). This soil type is shown as lime green in [Figure 7](#).

3.1.1.17 Good soil drainage is potentially beneficial to the visibility of archaeological features in aerial imagery and as such the majority of the recorded soil types are likely to provide good conditions for aerial analysis. The less well drained Burlingham 2, Downholland 3 and Frome soil types may provide less suitable conditions, potentially impeding the effectiveness of aerial survey in recording marks in crops on a regular basis.

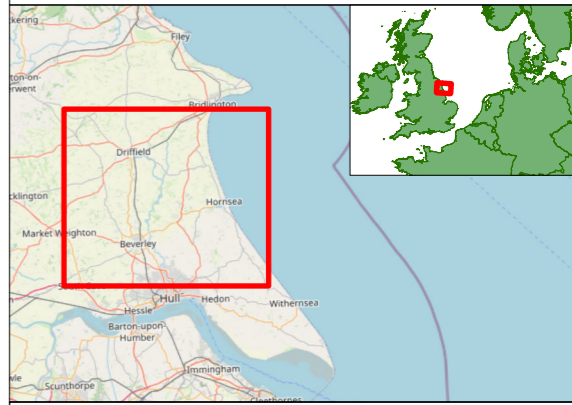


Hornsea Four

Figure 7

Geology and Soils Map

- Order Limits
- National Soils Types
- Burlingham 2
- Downholland 3
- Frome
- Holderness
- Hunstanton
- Landbeach
- Wick 1



Coordinate system: British National Grid
 Scale@A3: 1:130,000
 0 1 2 4 Kilometres
 0 0.5 1 2 Miles

REV	REMARK	DATE
	First Issue for PEIR	01/10/2019
A	Updated following PEIR consultations, for DCO	17/06/2021

Title: Geology and Soils Map
 Document no: HOW04APS0007
 Created by: ASJ
 Checked by: AK
 Approved by: CC



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3.2 Previously Recorded Heritage Assets

3.2.1 Introduction

3.2.1.1 Information regarding previously recorded heritage assets has been provided by HE and the HHER, a more detailed analysis of these data are discussed in [Volume A6, Annex 5.1: Historic Environment Desk Based Assessment](#). The HHER reference number has been used to refer to sites where one is available. The data was provided as shapefiles in point, line and polygon format and was loaded into the project GIS for analysis. The shapefiles were accompanied by the monument reports in HTML format. Not all heritage assets recorded in the HHER and HE data are likely to be seen through aerial sources and as such will not be discussed in detail.

3.2.1.2 [Table 2](#) outlines a summary of the data provided by the project. Several heritage assets included in the data are architectural in origin and so are beyond the remit of this study and will not be discussed in detail. These assets include a single Listed Building and 14 HHER Monument records.

Table 2: Summary of HHER Data within Study Area.

Data Type	Number of Features
HHER Events	8
HHER Monuments	111
Listed Buildings	1
Scheduled Monuments	1

3.2.2 Prehistoric

3.2.2.1 Forty-eight HHER Monument records and two HHER event records relate to the prehistoric period. The HHER records 18 entries which relate to prehistoric flint findspots which have not been discussed in detail as they are not assets that could be identified from the air.

3.2.2.2 Nine barrow sites are recorded in the HHER monument data. These include three round barrow sites of Bronze Age date (MHU3147, MHU6590, MHU19369). MHU3147 represents a ploughed down round barrow associated with a ditch feature which was identified from aerial imagery. MHU6590 has been identified by the HHER as a possible round barrow also from aerial imagery sources. No details were recorded in the HHER relating to MHU19369.

3.2.2.3 A single square barrow site of Neolithic to Iron Age date is recorded (MHU1519). This site was excavated in 1970.

3.2.2.4 Three square barrow sites of Iron Age date are recorded (MHU327, MHU19425, MHU10044). MHU327 was identified by the HHER from aerial imagery and represents a square barrow with a central pit. MHU10044 represents a group of six to eight square barrows arranged in

a contiguous north – south line, with a single outlier. No details are recorded relating to MHU19425.

- 3.2.2.5 A further monument record identifies possible burial mounds of Bronze Age date, but this identification is uncertain (MHU21086). The mounds are recorded as having diameters of between 25 and 30 m, with one mound featuring a central pit. The mounds were identified by the HHER from aerial imagery dated to 1945 but were not visible during ground survey in 2009.
- 3.2.2.6 A Bronze Age inhumation cemetery is recorded (MHU3727) but no details regarding the site are in the HHER. Information regarding the site on PastScape.org states that two inhumation burials were uncovered by excavation in advance of the installation of a petrol tank. A pair of Bronze Age urns were uncovered alongside the inhumations, one of which was identified as a food vessel.
- 3.2.2.7 A possible Iron Age occupation site is recorded by the HHER (MHU2802). This was identified by the presence of large quantities of animal bones, pottery, organic remains and burnt stone in peat deposits.
- 3.2.2.8 The remaining five monument records for this period represent enclosure sites of Late Iron Age to Roman date. Four of these are rectilinear enclosures (MHU22239, MHU22179, MHU22148, MHU22121). The remaining site is significant in scale and encompasses five enclosures of varying types in addition to possible barrows and further features (MHU21078).
- 3.2.2.9 MHU22239 represents a rectilinear Iron Age to Roman enclosure which was identified by the Hull Valley NMP from aerial imagery. The enclosure is recorded as measuring 62 m by 48 m internally.
- 3.2.2.10 MHU22179 represents a rectilinear enclosure, of probable Iron Age to Roman date, identified as a cropmark from aerial imagery by the Hull Valley NMP. The enclosure is recorded as measuring 55 m by 73 m internally.
- 3.2.2.11 MHU22148 represents a rectilinear enclosure, of probable Iron Age to Roman date, identified as a cropmark from aerial imagery by the Hull Valley NMP. The enclosure is recorded as measuring 70 m by 56 m internally.
- 3.2.2.12 MHU22121 represents a rectilinear enclosure, of probable Iron Age to Roman date, identified as a cropmark from aerial imagery by the East Riding of Yorkshire Assessment of Archaeological Resource in Aggregate Areas Project (Deegan 2008). The enclosure is recorded as measuring 68 m by 60 m internally.
- 3.2.2.13 MHU21078 represents a collection of five enclosures with associate features including a potential trackway, potential square barrow, field system, pit alignment and various ditch features. The enclosures present on the site consist of a triple ditched rectangular enclosure, two single ditched rectangular enclosures, a circular enclosure and a curvilinear enclosure.

The enclosures overlap at points, suggesting that the site had multiple phases of use, as the HHER suggests. The HHER records these features as Iron Age to Roman in date.

3.2.3 Roman

- 3.2.3.1 No sites of Roman date are identified in the data beyond the five enclosure sites of Iron Age to Roman date which have been considered above (MHU22239, MHU22179, MHU22148, MHU22121, MHU21078).

3.2.4 Medieval

- 3.2.4.1 There are five records of features of medieval date and a further four records of medieval to post-medieval date included in the data. One record (MHU711) is a Scheduled Monument.
- 3.2.4.2 There is a single findspot of medieval date recorded in the HHER data (MHU1379). This covers a priory seal discovered in the area of Burn Parks in the 19th century.
- 3.2.4.3 A medieval sanctuary cross, consisting of a 2 m limestone shaft mounted on a stone base, is recorded to the east of Killingwoldgraves (MHU711). This cross remains in its original location and is a Scheduled Monument.
- 3.2.4.4 A medieval moated site is recorded at Rotsea Manor (MHU4539). The site includes a trackway, banks and areas of ridge and furrow in addition to the moat.
- 3.2.4.5 MHU13179 represents an earthwork bank, which is shown on the 1855 OS map with the label "*Old Inclosure Bank*". It is believed to be of medieval date.
- 3.2.4.6 The final site of medieval date identified in the data is Raventhorpe Deserted Medieval Village (MHU3350). Aerial imagery suggests the presence of around 15 houses at the site, while records indicated that there was at one time a watermill and a chapel. The village was abandoned some time prior to 1517, when the nearby deer park was expanded over the site.
- 3.2.4.7 The first of the records of medieval to post-medieval date is the site of Winthorpe Manor (MHU3725). This site was excavated in 1956, but unfortunately the full records of the works are lost. It is understood that the excavations uncovered the site of a 12th-13th century house and suggested a possible location for a 14th-15th century successor to the original building, Winthorpe Hall. Favourable conditions for recording from aerial photographs in 1959 revealed several croft walls on the site which in turn led to the identification of further 15th century habitation of the site.
- 3.2.4.8 MHU22017 is associated with the Winthorpe Manor site. As with Winthorpe Manor, the site was excavated between 1956-1963 but the records of this excavation have been lost. This record covers the additional area of probable 15th century habitation to the south of the Winthorpe Manor site. The exact nature of this site is not clear from the records available,

but it is understood that finds from the site included possible Saxon pottery and a silver penny of Henry III.

- 3.2.4.9 A fishery, known as Arram Carr Fishery is recorded in documents dating to 1473 (MHU12722). No further details regarding this site are recorded but it is believed to be of medieval to post-medieval date.
- 3.2.4.10 The site of a windmill is recorded in the HHER (MHU12725). The first record of this site is dated to 1314, with a second reference from 1570 also being identified. It is understood that the site was disused by 1625.

3.2.5 Post-medieval

- 3.2.5.1 There are 16 records of post-medieval date in the data. Many of the records relate to wells and toll roads. A single record from this period covers a findspot (MHU21059). The record relates to a gun flint of 18th or 19th century date.
- 3.2.5.2 Two wells are recorded in the HHER data. The first was identified from a record on the 1890 OS map, where it is marked "*Artesian Well*" (MHU12875). The second was identified on the 1854 OS map where it is simply marked "*Well*" (MHU14024).
- 3.2.5.3 Three toll gates are recorded in the HHER data. The first was identified from the 1890 OS map on which it is marked as "*Dunflat Gate*" (MHU12805). The second was identified from the 1855 OS map where it is marked as "*Pratwoods Gate*", this gate was turnpiked in 1769 (MHU12382). The third was not recorded from OS mapping and is not named, being known simply as Site of Turnpike Bar and Road (MHU10977). The HHER records that the bar was placed at Killingwoldgraves and is known to have been moved to the eastern end of that village in 1830.
- 3.2.5.4 Two Milestones are recorded in the HHER data. The first was identified on the 1855 OS map where it is marked "*MS Beverley 2 miles*" (MHU12377). The second was identified from the 1893 OS map where it is marked "*MS Beverley 2 South Cave 7 ¼*" (MHU12974).
- 3.2.5.5 Two gravel pits are recorded in the HHER data. The first is recorded as both a sand pit and a gravel pit, each of the two pits being marked by those names on the 1855 OS map (MHU13107). The second is named Old Gravel Pits, Raventhorpe in the HHER but no further details regarding it are recorded (MHU14919). This site lies some 200 m north of the abandoned village of Raventhorpe, which the HHER records as medieval in date, suggesting that this post-medieval gravel pit may not in fact be related to that site.
- 3.2.5.6 A road bridge is recorded in the HHER data (MHU12871). The bridge is marked as "*Wilfolme Bridge*" on the 1855 OS map. The HHER does not record the current state of this bridge, however a small bridge is visible on aerial imagery dated 2018 at the location marked by the HHER. This may indicate that the bridge remains intact.

- 3.2.5.7 The site of a house known as Wood Cottage is recorded in the HHER (MHU12980). The location was identified on the 1893 OS map. No further details on the site are recorded in the HHER.
- 3.2.5.8 The site of a farm known as Dog Kennel Farm is recorded in the HHER data (MHU13020). The location is marked as "*Dog Kennels*" on the 1855 OS map and as "*Dog Kennel Farm*" on later OS mapping. No further information regarding this site is recorded in the HHER.
- 3.2.5.9 The site of a Wesleyan Methodist Chapel is recorded in the HHER data (MHU15234). The chapel is recorded in the 1854 OS map, where it is marked "*Wesleyan Methodist Chapel*". It appears on the 1892 OS map but is not labelled. Though the HHER does not make comment on the current state of this chapel it appears that it has been demolished.

3.2.6 World War I

- 3.2.6.1 A single monument dated to World War I (WWI) is recorded in the HHER data (MHU21050). This record covers a site that also includes features of World War II (WWII) date. The HHER records that traces of one or perhaps two square pillboxes of WWI date were identified on the site. WWII features recorded on the site include trackways and barbed wire obstructions. It is noted by the HHER that the majority of these features have been destroyed by coastal erosion and that there were no features visible from the ground in 2009.

3.2.7 World War II

- 3.2.7.1 Three monuments of WWII date are recorded in the HHER. The first site is a possible pillbox, identified by aerial imagery (MHU21049).
- 3.2.7.2 The second site is the location of a minefield with barbed wire obstructions and a possible military building. These features have been identified by the HHER from aerial imagery. It is noted by the HHER that the site has been destroyed by coastal erosion, with no features being visible from the ground in 2009.
- 3.2.7.3 The final site is the location of a lozenge shaped pillbox with associated blast wall and barbed wire obstructions (MHU21076). This site was identified from aerial imagery. The HHER records that the site was partially intact in 2009 with the western blast wall upstanding.

3.2.8 Unknown

- 3.2.8.1 Sixteen monuments are recorded as unknown in the HHER. In addition to these, two monuments recorded in the HHER as Lower Palaeolithic to post-medieval in date have been included in this section. The majority of the features identified in this section are sites visible on aerial imagery.
- 3.2.8.2 Five recorded undated monuments refer to sites containing a range of features. The first of these is a ditch system with possible ring ditches (MHU2252). This site has been identified

from aerial imagery. The second is a site consisting of ditches, trackways and a possible ring ditch (MHU979).

- 3.2.8.3 The third is a site consisting of a rectilinear enclosure and an apparent field boundary (MHU331). The HHER suggests that the features are of Iron Age/Roman date though the site is recorded as undated.
- 3.2.8.4 The fourth is recorded as a trackway, but it is also noted as including further features, though these are referred to only as "site" (MHU9878).
- 3.2.8.5 The fifth is a site consisting of ditches and a possible enclosure site (MHU3346). These features have been recorded from aerial imagery, being described by the HHER as "poor cropmarks".
- 3.2.8.6 Two of the recorded sites are undated enclosures. The first is recorded simply as "possible enclosures" with no further details, the mapping for the feature shows it consists of two such possible enclosures (MHU 19432). The second is recorded as a "Square Ditched Enclosure" with no further detail available (MHU8109).
- 3.2.8.7 Three undated pit features are recorded in the HHER. The first is recorded as a gravel pit (MHU12882). It has been identified from the 1891 OS map. The second is named "Old Pit at Burn Park Farm" and has been identified from the 1855 OS map on which it is shown but not named (MHU12381). The third is recorded as a chalk pit, being labelled as "Old Chalk Pit" on the 1893 OS map (MHU12981).
- 3.2.8.8 A single building of unknown date is recorded (MHU12884). The building is shown on the 1891 OS map but is not labelled, its use is not recorded.
- 3.2.8.9 A number of ditched field boundaries are recorded under the name "Old Field Boundaries, S of Throstle Nest Farm" (MHU10371). The HHER records that the site has been identified from aerial imagery.
- 3.2.8.10 A monument consisting of earthworks is recorded as "Banks/Earthworks S of Carr Lane" (MHU13262).
- 3.2.8.11 A soil mark site is recorded as "Soil mark W of Parkhouse" with no further information available (MHU19099)
- 3.2.8.12 The location of two possible tracks or ditches, visible on aerial imagery, is recorded simply as "Linear Features" (MHU10378).
- 3.2.8.13 As previously stated, two sites with broad date ranges of Lower Palaeolithic to post-medieval are included in this section. The first of these sites is recorded as "Linear Feature, Foston" and consists of a single linear feature identified by the HHER on the 1850-1856 OS map (MHU22021). It is suggested by the HHER that this feature may represent the arm of a moat. The second site is a substantial one (MHU326). It is recorded under the name

“*Watermill Grounds Cropmark Complex*”. It consists of a network of rectangular enclosures, ring ditches, square barrows and further enclosures. The HHER note that the site is being damaged over time by coastal erosion. The overlaid positioning of the various features suggests multiphase habitation on the site, with some parts identified by the HHER as likely Iron Age or Roman in date.

3.3 Summary

3.3.1.1 In summary, the HHER has provided an important overview of the types of sites that are known within the study area and has highlighted the potential and types of heritage asset that are likely to be encountered as part of this assessment of aerial imagery and Lidar data.

4 Results

4.1.1.1 The results from the mapping are presented in [Table 3](#). Sites 001 to 265 were recorded in the initial assessment (March to August 2019). Sites 301 to 316 were the additional new archaeological assets that had been identified following the 2020 assessment accounting for the refinements made to the Hornsea Four Order Limits post-PEIR. These have been numbered from south to north of the study area based upon the eastings and northings for each site. The table details the following:

- APS Site Number;
- Asset Type;
- Broad Type;
- Period;
- Humberside Historic Environment Monument ID;
- National Mapping Programme Unique ID;
- Comment;
- National Grid Reference; and
- Map Book Number.

4.1.1.2 The mapping from aerial imagery and Lidar is presented in the Map Books in [Appendix E \(Annex 5.2 – Aerial Photo and Lidar Report – Part B and Annex 5.2 – Aerial Photo and Lidar Report – Part C\)](#). Within results [Table 3](#) the map book number that the site is visible in is provided for ease of reference between the table and the map book.

Table 3: Results.

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_001	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks on aerial imagery sources.	TA 027 343	6
APS_002	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566944	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 048 344	2
APS_003	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 039 345	4
APS_004	Enclosure	Enclosure	Unknown	N/A	1566826	A partial enclosure which is visible as an earthwork on aerial imagery sources.	TA 032 345	4
APS_005	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 036 345	4
APS_006	Hollow	Hollow	Unknown	N/A	N/A	A hollow is visible as an earthwork on aerial imagery sources.	TA 021 346	6

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_007	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566944	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 048 346	2
APS_008	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 025 346	6
APS_009	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566959	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as a cropmark on aerial imagery sources.	TA 044 347	2
APS_010	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated northeast - southwest which is visible as an earthwork has been identified through aerial imagery sources.	TA 024 347	6
APS_011	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks on aerial imagery sources.	TA 026 347	6

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_012	Ditch	Ditch	Unknown	N/A	1566826	A group of ditches on a variety of orientations have been identified as earthworks and cropmarks through aerial imagery sources.	TA 034 347	4
APS_013	Ditch	Ditch	Unknown	N/A	N/A	A group of ditches on a variety of orientations have been identified as earthworks through aerial imagery sources which may relate to the Iron Age field system directly to the north.	TA 037 347	4
APS_014	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and cropmark and is orientated approximately northwest - southeast.	TA 038 347	4
APS_015	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 023 347	6
APS_016	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 024 347	6
APS_017	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated north - south which is visible as a cropmark has been identified through aerial imagery sources.	TA 039 347	4

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_018	Ditch	Ditch	Unknown	N/A	N/A	Two parallel ditches roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 039 347	4
APS_019	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark on aerial imagery sources	TA 028 348	6
APS_020	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated northeast - southwest which is visible as an earthwork has been identified through aerial imagery sources.	TA 029 348	6
APS_021	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566959	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as a cropmark on aerial imagery sources.	TA 046 348	2
APS_022	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated east - west which is visible as a cropmark has been identified through aerial imagery sources.	TA 047 348	2
APS_023	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 034 348	4

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_024	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566959	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and later as cropmark on aerial imagery sources.	TA 035 348	4
APS_025	Trackway	Road	Unknown	N/A	N/A	A trackway roughly orientated northwest - southeast which is visible as a cropmark has been identified through aerial imagery sources.	TA 018 349	6
APS_026	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northeast - southwest.	TA 032 349	4
APS_027	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566956	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 020 349	6
APS_028	Field System	Land Use Site	Iron Age / Roman	MHU6600 MHU6599	910624	An area of former field systems which are visible as cropmark ditches through aerial imagery sources.	TA 039 349	4

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_029	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566959	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 025 350	6
APS_030	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 033 350	4
APS_031	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately east - west.	TA 018 350	5 / 6
APS_032	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork and later as cropmarks on aerial imagery sources.	TA 018 350	5 / 6
APS_033	Enclosure	Enclosure	Unknown	N/A	1566005	A partial enclosure and a trackway roughly orientated east - west which is visible as a cropmark on aerial imagery sources.	TA 027 350	5 / 6
APS_034	Mound	Mound	Unknown	N/A	N/A	The site of an undated mound which is visible as an earthwork on aerial imagery sources.	TA 023 351	5 / 6

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_035	Defensive Feature	Defensive Feature	WWII	N/A	1565875	War time features visible as a mixture of banks and ditches in 1945 and then as cropmarks in 2016.	TA 025 352	5
APS_036	Ditch	Ditch	Unknown	N/A	N/A	Parallel ditch roughly orientated east - west which is visible as cropmarks has been identified through aerial imagery sources.	TA 019 352	5
APS_037	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 036 353	1 / 4 / 5 / 6
APS_038	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated north - south which is visible as a cropmark has been identified through aerial imagery sources.	TA 038 353	4
APS_039	Square Enclosure	Enclosure	Prehistoric	N/A	N/A	A square enclosure which is visible as a cropmark on aerial imagery sources.	TA 022 353	5
APS_040	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated northeast - southwest which is visible as an earthwork has been identified through aerial imagery sources.	TA 016 354	5 / 7
APS_041	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as	TA 023 354	5

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
						an earthwork on aerial imagery sources.		
APS_042	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northwest - southeast.	TA 016 354	5 / 7
APS_043	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and later as cropmarks on aerial imagery sources.	TA 020 354	5
APS_044	Bank	Bank	Unknown	N/A	1566276	A bank roughly orientated north - south which is visible as a headland bank has been identified through aerial imagery sources.	TA 019 354	5
APS_045	Bank	Bank	Medieval / Post Medieval	N/A	1566276	A bank roughly orientated north - south which is visible as a headland bank has been identified through aerial imagery sources.	TA 020 355	5
APS_046	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 025 355	5

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_047	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 018 356	5
APS_048	Field System	Land Use Site	Prehistoric	N/A	N/A	Series of cropmark ditches which appear to form either a settlement site or a field system including trackways, pits and enclosures.	TA 048 356	1
APS_049	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 021 356	5
APS_050	Field Boundary	Boundary	Post Medieval	N/A	N/A	A bank roughly orientated northeast - southwest which is visible as an earthwork and later as a cropmark has been identified through aerial imagery sources.	TA 023 356	5
APS_051	Field Boundary	Boundary	Post Medieval	N/A	N/A	A bank roughly orientated northeast - southwest which is visible as an earthwork has been identified through aerial imagery sources.	TA 015 357	7

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_052	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated east - west which is visible as a cropmark has been identified through aerial imagery sources.	TA 021 357	5
APS_053	Ditch	Ditch	Unknown	N/A	N/A	An area of former field systems and ditches which are visible as cropmark ditches through aerial imagery sources.	TA 034 357	3 / 4
APS_054	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 017 357	5
APS_055	Earthwork	Earthwork	Post Medieval	N/A	1566002	A site, previously mapped by the NMP, which comprises the earthwork remains of ditches, banks and circular enclosures which are likely related to agriculture.	TA 022 357	5
APS_056	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566959	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and cropmark on aerial imagery sources.	TA 036 357	3

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_057	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 018 357	5
APS_058	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 024 358	5
APS_059	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 019 358	5
APS_060	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566274	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 020 358	5

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_061	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 020 358	5
APS_062	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 021 358	5
APS_063	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 017 358	5
APS_064	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 014 358	7
APS_065	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks on aerial imagery sources.	TA 011 359	7

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_066	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as earthworks on aerial imagery sources.	TA 022 359	5
APS_067	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks and later as cropmarks on aerial imagery sources.	TA 015 359	5 / 7
APS_068	Deserted Settlement	Settlement	Medieval	MHU9750	N/A	The site of a deserted Medieval settlement of Bentley is visible as earthworks on aerial imagery sources.	TA 018 360	5
APS_069	Square Enclosure	Enclosure	Prehistoric	N/A	N/A	A square enclosure which is visible as a cropmark on aerial imagery sources.	TA 024 360	5
APS_070	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately northeast - southwest.	TA 011 360	7

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_071	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 028 360	3
APS_072	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as cropmarks on aerial imagery sources.	TA 018 361	5
APS_073	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 020 361	5
APS_074	Ditch	Ditch	Unknown	N/A	N/A	A group of ditches on a variety of orientations have been identified as ditches through aerial imagery sources.	TA 014 362	7
APS_075	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 012 363	7

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_076	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and later as cropmarks on aerial imagery sources.	TA 008 364	7
APS_077	Field System	Land Use Site	Prehistoric	N/A	1565984	Series of cropmark ditches which appear to form either a settlement site or a field system including trackways, pits and enclosures visible in aerial photographs, satellite imagery and Lidar. Previously recorded by NMP.	TA 027 364	3
APS_078	Ditch	Ditch	Unknown	N/A	1566281	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west, separated by two ditches is visible as an earthwork and cropmark on aerial imagery sources.	TA 035 365	3
APS_079	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 010 365	8

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_080	Bank	Bank	Unknown	N/A	1566276	Probable headland bank visible as cropmarks on satellite imagery and earthworks on Environment Agency Lidar, ridge and furrow previously mapped by NMP.	TA 013 366	8
APS_081	Ditch	Ditch	Unknown	N/A	1566060	A ditch roughly orientated north - south which is visible as a cropmark has been identified through aerial imagery sources.	TA 033 367	3
APS_082	Double Ditched Enclosure	Enclosure	Unknown	N/A	1087958	A partial double ditched enclosure which is visible as a cropmark on aerial imagery sources.	TA 036 368	3
APS_083	Ditch	Ditch	Unknown	N/A	N/A	A group of ditches on a variety of orientations have been identified as earthworks and later as cropmarks through aerial imagery sources.	TA 010 370	8
APS_084	Enclosure	Enclosure	Prehistoric	N/A	N/A	A partial enclosure which is visible as a cropmark on aerial imagery sources.	TA 014 371	8
APS_085	Enclosure	Enclosure	Prehistoric	N/A	N/A	A partial enclosure which is visible as a cropmark on aerial imagery sources.	TA 013 374	8

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_086	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566271	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an cropmarks and residual earthworks on aerial imagery sources.	TA 011 375	8
APS_087	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and cropmarks on aerial imagery sources.	TA 014 375	8 / 9
APS_088	Ditch	Ditch	Unknown	N/A	1087954	Undated series of parallel East / West aligned undulating ditches are visible as cropmarks on aerial photographs, satellite imagery and previously mapped by NMP.	TA 014 376	8
APS_089	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566271	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks on aerial imagery sources.	TA 010 377	9
APS_090	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566271	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks and cropmarks on aerial imagery sources.	TA 005 377	8 / 9

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_091	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 009 377	9
APS_092	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 005 377	7 / 8 / 9 10
APS_093	Hollow	Hollow	Unknown	N/A	N/A	A hollow is visible as an earthwork on aerial imagery sources.	TA 008 377	9
APS_094	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 010 378	9
APS_095	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and later as cropmarks on aerial imagery sources.	TA 006 379	9
APS_096	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks on aerial imagery sources.	TA 009 379	9

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_097	Hollow	Hollow	Unknown	N/A	N/A	A hollow is visible as an earthwork on aerial imagery sources.	TA 007 381	9
APS_098	Palaeochannel	Palaeochannel	Prehistoric	N/A	N/A	The visible extent of a natural palaeochannel which has been identified through aerial imagery sources.	TA 005 383	9
APS_099	Pit	Pit	Unknown	N/A	N/A	A pit of unknown date is visible as an earthwork on aerial imagery sources.	TA 008 386	9
APS_100	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 008 387	9
APS_101	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and later as cropmarks on aerial imagery sources.	TA 007 389	9 / 10
APS_102	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately north - south.	TA 003 389	9 / 10
APS_103	Pit	Pit	Unknown	N/A	N/A	A group of pits of unknown date are visible as cropmarks on aerial imagery sources.	TA 007 390	10

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_104	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated northeast - southwest which is visible as an earthwork and later as a cropmark has been identified through aerial imagery sources.	TA 007 391	10
APS_105	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated northwest - southeast which is visible as an earthwork has been identified through aerial imagery sources.	TA 007 391	10
APS_106	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated northwest - southeast which is visible as an earthwork and a cropmark has been identified through aerial imagery sources.	TA 006 392	10
APS_107	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 005 393	10
APS_108	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately east - west	TA 002 394	10

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_109	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northwest - southeast.	TA 007 395	10
APS_110	Bank	Bank	Unknown	N/A	1552238	A bank roughly orientated northeast - southwest which is visible as an earthwork has been identified through aerial imagery sources.	TA 005 395	10
APS_111	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as a cropmark on aerial imagery sources.	TA 004 395	10
APS_112	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566264	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 004 397	10
APS_113	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated north - south which is visible as an earthwork has been identified through aerial imagery sources.	TA 005 398	10

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_114	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 004 398	10
APS_115	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately east - west.	TA 003 404	11
APS_116	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551834	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 002 404	11
APS_117	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551834	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 005 404	11
APS_118	Enclosure	Enclosure	Iron Age / Roman	MHU22297	1550545	A partial enclosure which is visible as a cropmark on aerial imagery sources.	TA 003 404	11
APS_119	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551834	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 006 405	11

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_120	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551834	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 004 405	11
APS_121	Enclosure	Enclosure	Iron Age / Roman	MHU22299	1550552	A partial enclosure which is visible as a cropmark on aerial imagery sources.	TA 007 406	11
APS_122	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 003 406	11
APS_123	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as a cropmark on aerial imagery sources.	TA 002 406	11
APS_124	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551834	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 003 406	11

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_125	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately southeast - northwest.	TA 004 410	11
APS_126	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552441	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 007 414	12
APS_127	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552441	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as a cropmark on aerial imagery sources.	TA 004 415	12
APS_128	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552441	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 007 417	12
APS_129	Deserted Settlement	Settlement	Medieval	MHU3350	79241 1418157 1552441	The site of a deserted Medieval settlement of Raventhorpe is visible as earthworks on aerial imagery sources.	TA 004 425	13

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_130	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552441	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 005 428	13
APS_131	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552441	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 000 429	13
APS_132	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately northwest - southeast.	TA 006 432	13
APS_133	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552443	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 004 432	13

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_134	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthwork and later as a mark in grass on aerial imagery sources.	TA 000 432	13
APS_135	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552443	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as cropmarks on aerial imagery sources.	TA 007 433	13
APS_136	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 002 433	13
APS_137	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552443	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 004 435	13 / 14

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_138	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately northeast - southwest.	TA 007 438	14
APS_139	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552440	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northeast - southwest.	TA 003 441	14
APS_140	Trackway	Road	Unknown	N/A	1430033 1551869 1552332	A complex site comprising a trackway, ditches, pits, and curvilinear ditched features. The trackway is mostly visible as cropmarks however some residual earthwork remains at the southern extent.	TA 004 444	14
APS_141	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1552443	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 005 446	14

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_142	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthwork and later as a cropmark on aerial imagery sources.	TA 999 449	14 / 15
APS_143	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northeast - southwest.	TA 003 449	15
APS_144	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately northwest - southeast.	TA 001 450	15
APS_145	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549229	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 999 452	15

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_146	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately northeast - southwest.	TA 003 452	15
APS_147	Manor	Land Use Site	Medieval / Post Medieval	MHU3725	79184	The site of Winthorpe Manor and House which is visible as earthwork ditches on aerial imagery sources and more recently on Google Earth as cropmarks.	TA 001 452	15
APS_148	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately northwest - southeast.	TA 003 453	15
APS_149	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549229	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 004 456	15

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_150	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549233	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 006 457	15
APS_151	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 008 458	15
APS_152	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549233	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork and later as a cropmark on aerial imagery sources.	TA 010 458	15
APS_153	Rectilinear Enclosure	Enclosure	Iron Age / Roman	MHU22179	1548780	A rectilinear enclosure is visible as a cropmark and residual earthwork on aerial imagery sources.	TA 009 461	15 / 16
APS_154	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549229	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 015 464	16

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_155	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1548665 1549229	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west, a former field boundary dating to the Post Medieval period and a hollow are visible as earthworks on aerial imagery sources.	TA 012 465	16
APS_156	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549229	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork and later as a soil mark on aerial imagery sources.	TA 016 466	16
APS_157	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 017 468	16
APS_158	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west.	TA 017 468	16
APS_159	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west.	TA 019 469	16

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_160	Ditch	Ditch	Unknown	N/A	N/A	A group of ditches on a variety of orientations have been identified as cropmarks through aerial imagery sources.	TA 021 469	16
APS_161	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west.	TA 019 469	16
APS_162	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and is orientated approximately east - west.	TA 019 470	16
APS_163	Field System	Land Use Site	Unknown	N/A	N/A	An area of former field systems which are visible as earthwork ditches through aerial imagery sources.	TA 016 470	16
APS_164	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west.	TA 019 470	16
APS_165	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549229	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 021 471	16
APS_166	Hollow	Hollow	Unknown	N/A	N/A	A hollow is visible as an earthwork on aerial imagery sources.	TA 023 471	17

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_167	Square Barrow	Square Barrow	Iron Age	MHU19425	N/A	The site of a possible square barrow is visible as an earthwork on aerial imagery sources.	TA 022 472	17
APS_168	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549224	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as a cropmark on aerial imagery sources.	TA 027 473	17
APS_169	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork ditch and is orientated approximately northwest - southeast.	TA 024 474	17
APS_170	Mound	Mound	Unknown	N/A	N/A	The site of an undated mound which is visible as an earthwork on aerial imagery sources.	TA 021 475	17
APS_171	Ditch	Ditch	Unknown	N/A	1549001	A series of ditches roughly orientated northeast - southwest which is visible as cropmarks has been identified through aerial imagery sources.	TA 036 475	18
APS_172	Ditch	Ditch	Unknown	N/A	1548746	A ditch has been identified as a cropmark and residual earthwork through aerial imagery sources.	TA 031 475	17

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_173	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549224	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as a cropmark on aerial imagery sources.	TA 027 476	17
APS_174	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately north - south.	TA 029 476	17
APS_175	Pit	Pit	Unknown	N/A	1548746	A group of pits of unknown date are visible as an earthwork on aerial imagery sources.	TA 028 476	17
APS_176	Field Boundary	Boundary	Post Medieval	N/A	N/A	A ditch roughly orientated northeast - southwest which is visible as an earthwork and later as a cropmark has been identified through aerial imagery sources.	TA 039 481	18
APS_177	Field Boundary	Boundary	Post Medieval	N/A	N/A	A ditch roughly orientated northeast - southwest which is visible as an earthwork and later as a cropmark has been identified through aerial imagery sources.	TA 038 485	19
APS_178	Ditch	Ditch	Unknown	N/A	1548818	A group of ditches of unknown purpose have been identified as earthworks through aerial imagery sources.	TA 047 487	19

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_179	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 044 488	19
APS_180	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 043 488	19
APS_181	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately north - south.	TA 043 489	19
APS_182	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated north - south which is visible as an earthwork has been identified through aerial imagery sources.	TA 045 490	19
APS_183	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthwork and later as a cropmark on aerial imagery sources.	TA 046 491	19
APS_184	Pit	Pit	Unknown	N/A	N/A	A group of pits of unknown date are visible as cropmarks on aerial imagery sources.	TA 046 492	19

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_185	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and later as a cropmark on aerial imagery sources.	TA 050 497	20
APS_186	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks and residual earthworks on aerial imagery sources.	TA 053 497	20
APS_187	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1551232	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as an earthwork on aerial imagery sources.	TA 050 499	20
APS_188	Ditch	Ditch	Unknown	N/A	1551246	A ditch roughly orientated northeast - southwest which is visible as an earthwork and later as a cropmark has been identified through aerial imagery sources.	TA 052 499	20
APS_189	Field Boundary	Boundary	Post Medieval	N/A	1367270	A group of former field boundaries dating to the Post Medieval period which were visible as banks and ditches and are now visible as cropmarks on aerial imagery sources.	TA 056 503	20 / 21

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_190	Field Boundary	Boundary	Unknown	MHU19368 MHU9878	1550347 1559252 1550344 1550255	A group of former field boundaries dating to the Post Medieval period and groups of pits are visible as cropmarks on aerial imagery sources.	TA 057 509	21 / 22
APS_191	Trackway	Road	Unknown	MHU9878	1550255	Two trackways roughly orientated northeast - southwest which are visible as earthworks and later as cropmarks has been identified through aerial imagery sources.	TA 058 511	21 / 22
APS_192	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550344 1550255 1550259	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as earthwork and later as cropmarks on aerial imagery sources.	TA 061 515	22
APS_193	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	MHU4539 MHU15234	1550290 1550255 1550263 1550347	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 063 517	22
APS_194	Enclosure	Enclosure	Prehistoric	MHU8109	1550284 1550194 1550174	An enclosure which is visible as a cropmark and residual earthworks on aerial imagery sources.	TA 060 518	22

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_195	Field System	Land Use Site	Prehistoric	MHU19369 MHU2252	1550185 1550344 79378	An area of former field systems which are visible as cropmark ditches through aerial imagery sources.	TA 065 524	22 / 23
APS_196	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated northeast - southwest which is visible as a cropmark has been identified through aerial imagery sources.	TA 068 529	23
APS_197	Field Boundary	Boundary	Post Medieval	N/A	1550338	A former field boundary dating to the Post Medieval period is visible as a cropmark and residual earthwork and is orientated approximately northwest - southeast.	TA 066 531	23
APS_198	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks and cropmarks on aerial imagery sources.	TA 070 531	23
APS_199	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338 1550215	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks and later as cropmarks on aerial imagery sources.	TA 065 533	23

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_200	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthwork on aerial imagery sources.	TA 071 535	24
APS_201	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast – southwest is visible as an earthwork on aerial imagery sources.	TA 065 535	24
APS_202	Field Boundary	Boundary	Post Medieval	N/A	1550338 1550335 1550116	A group of former field boundaries dating to the Post Medieval period and undated ring ditches are visible as earthworks and later as cropmarks on aerial imagery sources.	TA 070 540	24
APS_203	Field System	Land Use Site	Iron Age / Roman	MHU8161 MHU7177	1550229 1549554 1550229 1550101 1550338	An area of former field systems which are visible as earthwork and cropmark ditches through aerial imagery sources.	TA 074 547	25
APS_204	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and cropmarks and is orientated approximately northeast - southwest.	TA 084 549	26

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_205	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and cropmarks and is orientated approximately northwest - southeast.	TA 081 551	25
APS_206	Ditch	Ditch	Post Medieval	EHU1963	N/A	A series of ditches roughly orientated northeast - southwest which is visible as an earthwork and later as cropmarks has been identified through aerial imagery sources.	TA 084 552	26
APS_207	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	EHU1963	1549729	An area of Medieval / Post Medieval Ridge and Furrow and field boundaries which is orientated approximately northeast - southwest is visible as earthworks and cropmarks on aerial imagery sources.	TA 089 553	26
APS_208	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east – west is visible as earthworks on aerial imagery sources.	TA 094 553	26

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_209	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549729 1548725	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 096 555	26 / 27
APS_210	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 092 555	26
APS_211	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549729 1549544	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 092 557	26
APS_212	Ditch	Ditch	Unknown	N/A	1549729	A group of ditches on a variety of orientations have been identified as earthworks and later as cropmarks through aerial imagery sources.	TA 093 559	26
APS_213	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 107 559	27

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_214	Field Boundary	Boundary	Post Medieval	N/A	N/A	A pair of former field boundaries dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west.	TA 118 562	28
APS_215	Field System	Land Use Site	Post Medieval	N/A	1549545 1549729 1461211 1549729	An area of former field systems which are visible as earthworks and later as cropmark ditches through aerial imagery sources.	TA 099 562	27
APS_216	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 110 563	27 / 28
APS_217	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northwest - southeast.	TA 111 563	28
APS_218	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461209	An area of Medieval / Post Medieval Ridge and Furrow which is on multiple orientations is visible as earthworks and later as cropmarks on aerial imagery sources.	TA 115 563	28
APS_219	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 124 563	29

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_220	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and later as cropmarks on aerial imagery sources.	TA 129 564	29
APS_221	Field Boundary	Boundary	Unknown	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 110 564	28
APS_222	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 123 564	29
APS_223	Square Enclosure	Enclosure	Prehistoric	MHU22121	1460721	An Iron Age - Roman square ditched enclosure is visible as a cropmark on aerial imagery sources.	TA 108 564	27 / 28
APS_224	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which are visible on aerial imagery sources.	TA 114 565	28
APS_225	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which are visible on aerial imagery sources.	TA 113 565	28

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_226	Bank	Bank	Unknown	N/A	N/A	A curvilinear bank roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 120 565	28 / 29
APS_227	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and later as cropmarks on aerial imagery sources.	TA 112 566	28
APS_228	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks on aerial imagery sources.	TA 114 566	28
APS_229	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is on multiple alignments is visible as earthworks on aerial imagery sources.	TA 116 567	28
APS_230	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is on multiple alignments is visible as earthworks on aerial imagery sources.	TA 119 567	28

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_231	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1461211	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks on aerial imagery sources.	TA 115 568	28
APS_232	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as a cropmark and residual earthwork and is orientated approximately northwest - southeast.	TA 124 568	29
APS_233	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated east - west which is visible as an earthwork has been identified through aerial imagery sources.	TA 129 569	29
APS_234	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated north - south which is visible as an earthwork and later as cropmark has been identified through aerial imagery sources.	TA 131 569	29
APS_235	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 141 578	31

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_236	Military Airfield	Airfield	WWI / WWII	MHU11147	1401983	The site of a former Military Airfield, RAF Lissett, which was first used during WWII, the airfield is still partially in use and some areas have been repurposed for wind turbines.	TA 132 579	29 / 30 / 31
APS_237	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork on aerial imagery sources.	TA 142 579	31
APS_238	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 142 580	31
APS_239	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 141 584	31
APS_240	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as an earthwork on aerial imagery sources.	TA 139 584	31

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_241	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northeast - southwest.	TA 146 586	32
APS_242	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately north - south.	TA 138 586	32
APS_243	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as a cropmark and is orientated approximately north - south.	TA 147 587	32
APS_244	Ridge and Furrow	Cultivation Marks	Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as an earthwork and cropmark on aerial imagery sources.	TA 144 589	32
APS_245	Ditch	Ditch	Unknown	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as cropmarks on aerial imagery sources.	TA 146 591	32

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_246	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as cropmarks on aerial imagery sources.	TA 147 595	32
APS_247	Ditch	Ditch	Unknown	N/A	N/A	A ditch roughly orientated northwest - southeast which is visible as residual earthworks has been identified through aerial imagery sources.	TA 155 598	33
APS_248	Ditch	Ditch	Unknown	N/A	N/A	A group of ditches on a variety of orientations have been identified as earthworks and cropmarks through aerial imagery sources.	TA 153 601	33
APS_249	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately northwest - southeast.	TA 160 605	33
APS_250	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and later as cropmarks and is orientated approximately northwest - southeast.	TA 167 606	34

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_251	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and cropmark and is orientated approximately northeast - southwest.	TA 156 606	33
APS_252	Field Boundary	Boundary	Post Medieval	N/A	N/A	A former field boundary dating to the Post Medieval period is visible as an earthwork and is orientated approximately east - west then north - south.	TA 162 606	33 / 34
APS_253	Ditch	Ditch	Unknown	N/A	N/A	A bank roughly orientated northwest - southeast and pits which are visible as cropmarks has been identified through aerial imagery sources.	TA 157 608	33 / 35
APS_254	Field System	Land Use Site	Medieval / Post Medieval	MHU326 MHU21086	1446484	A field system is visible as cropmarks on aerial imagery sources, the site may relate to the multi period occupation site recorded by the HER.	TA 167 609	34 / 36
APS_255	Anti Glider Ditch	Anti-Aircraft Defence Site	WWII	MHU21077	1446311	The site of anti-glider ditches utilised during WWII, the ditches are no longer extant but have been observed from aerial sources as extant structures, earthworks and more recently as residual earthworks and cropmarks.	TA 167 612	36

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_256	Enclosure	Enclosure	Prehistoric	MHU21078	1446482 1446399	The HER records Iron Age to Roman enclosures at Watermill Grounds which are visible as cropmarks on aerial imagery sources.	TA 166 612	36
APS_257	Ditch	Ditch	Unknown	MHU21070	1446481	A complex site made up of ditches and pits, the majority of which are visible as cropmark features. A few of the ditches are visible as residual earthworks.	TA 161 613	36
APS_258	Defensive Feature	Defensive Feature	WWII	N/A	N/A	Extent of area of coastal wartime defences, mostly characterised by Dragons Teeth mapped in detail by the NMP.	TA 170 615	34 / 36 / 37
APS_259	Deserted Settlement	Settlement	Medieval	MHU360	N/A	The site of Fraisthorpe Medieval Settlement and manor which is formed of residual earthworks.	TA 155 616	35
APS_260	Cropmark Site	Cropmark	Prehistoric	MHU331 MHU327	1446477	A complex cropmark site which is formed of linear and curvilinear ditches, former field boundaries and pits all of which are visible as cropmarks on aerial imagery sources.	TA 164 617	36

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_261	Anti-Glider Ditch	Anti-Aircraft Defence Site	WWII	N/A	N/A	The site of anti-glider ditches utilised during WWII, the ditches are no longer extant but have been observed from aerial sources as extant earthworks and more recently as residual earthworks and cropmarks.	TA 164 622	37
APS_262	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 168 624	37
APS_263	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks on aerial imagery sources.	TA 168 626	37
APS_264	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks on aerial imagery sources.	TA 166 627	37
APS_265	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	N/A	An area of Medieval / Post Medieval Ridge and Furrow on multiple alignments is visible as earthworks and later as	TA 168 630	37

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
						cropmarks on aerial imagery sources.		
APS_301	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1566276	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northwest - southeast is visible as an earthwork on aerial imagery sources.	TA 015 355	7
APS_302	Pit	Pit	Unknown	N/A	N/A	A pit of unknown date is visible as an earthwork on aerial imagery sources.	TA 012 359	7
APS_303	Modern Service	Modern Service	Modern	N/A	N/A	The line of a modern service trench which has been identified through aerial imagery sources.	TA 033 362	3
APS_304	Field Boundary	Boundary	Post Medieval	N/A	N/A	A group of former field boundaries dating to the Post Medieval period are visible as earthworks and later as cropmarks on aerial imagery sources.	TA 009 390	10

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_305	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1549233	An area of Medieval / Post Medieval Ridge and Furrow on multiple alignments is visible as earthworks on aerial imagery sources.	TA 014 458	15 / 16
APS_306	Ditch	Ditch	Iron Age / Roman	MHU22336	1548766	A partial enclosure which is visible as a cropmark on aerial imagery sources.	TA 014 472	16
APS_307	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550347	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks on aerial imagery sources.	TA 064 517	22
APS_308	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338	An area of Medieval / Post Medieval Ridge and Furrow on multiple alignments is visible as earthworks on aerial imagery sources.	TA 074 534	24
APS_309	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 075 538	24

APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_310	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1550338	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately north - south is visible as earthworks on aerial imagery sources.	TA 077 539	24
APS_311	Mining	Mining/spoil heaps	Modern	N/A	1464129	Area of Modern spoil heaps visible on aerial imagery sources.	TA 083 545	25
APS_312	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1464153	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately northeast - southwest is visible as earthworks on aerial imagery sources.	TA 090 547	26
APS_313	Field System	Field System	Post Medieval	MHU8161 MHU7177	1550338	An area of former field systems which are visible as cropmark ditches through aerial imagery sources.	TA 076 547	24 / 25
tAPS_314	Ridge and Furrow	Cultivation Marks	Medieval / Post Medieval	N/A	1464153	An area of Medieval / Post Medieval Ridge and Furrow which is orientated approximately east - west is visible as earthworks on aerial imagery sources.	TA 092 548	26

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APS Site Number	Asset Type	Broad Type	Period	Monument Unique ID (HHER)	NMP Unique ID	Comment	NGR	Map Book Number
APS_315	Bank	Bank	Unknown	N/A	N/A	A bank roughly orientated northwest - southeast which is visible as an earthwork has been identified through aerial imagery sources.	TA 152 605	33
APS_316	Ditch	Ditch	Medieval	MHU349	N/A	A ditch roughly orientated northeast - southwest which is visible as a cropmark has been identified through aerial imagery sources.	TA 156 612	35

5 Discussion

5.1 Summary

5.1.1.1 This aerial photographic and Lidar assessment has identified 281 archaeological sites, some of which have been previously identified by the HHER and the NMP. In many instances this assessment has augmented the information and mapping available for many of the existing sites and has identified a significant number of new sites.

5.1.1.2 This discussion section will highlight the key findings from this assessment according to time period. Sites that are not securely dated are discussed at the end of this section in a general 'undated' section.

5.2 Prehistoric

5.2.1.1 The Prehistoric period is well represented in the features identified through this aerial photograph and Lidar assessment.

5.2.1.2 APS_028 is the site of a complex early field system likely relating to Iron Age – Roman agriculture. The site is recorded in the HHER under Monument ID MHU6599 as the '*Burn Park CM Complex*'. The site comprises linear and curvilinear ditches which are visible as cropmarks alongside small pit features.

5.2.1.3 APS_048 is formed of ditches which are likely to date to the Prehistoric period. The ditches appear to form part of field system, suggesting that the site is related to early agriculture. At the approximate centre of the site the NMP has mapped a partial square ditched enclosure and at the southern end of the site there are four circular ditched features. The site is not recorded by the HHER but has been partially mapped by the NMP.

5.2.1.4 APS_077 also likely dates to the prehistoric period and is formed of a series of linear ditches, some of which appear to be part of a former field system. At the approximate centre of the site there is a circular ditched feature alongside a small pit. The circular feature is also transected by a linear ditch running east – west. The site has previously been partially mapped by the NMP however it is not recorded by the HHER.

5.2.1.5 Site APS_098 is the visible extent of a palaeochannel. Whilst they are natural features, palaeochannels often provide environmental and artefactual data from early archaeological periods when excavated.

5.2.1.6 There are seven APS sites which relate to enclosures dating to the Prehistoric period. APS_039, APS_069 and APS_084 are small double ditched square enclosures which are visible as cropmarks. APS_085 is a square double ditched enclosure which appears to have an entrance close to the south east corner. APS_194 is a double ditched square enclosure which sits in the landscape alongside a series of linear ditches and pits as well as a double ditched circular feature. The site has been partially mapped by the NMP and is recorded by the HHER under Monument ID MHU8109. APS_223 is a square ditched enclosure, dating to the Iron Age – Roman periods, which has previously been mapped by the NMP and is

recorded in the HHER under number MHU22121. APS_256 is a complex site located at the northern end of the study area. The site comprises a large rectilinear enclosure which is partially visible as a cropmark as well as a circular ditched enclosure. To the immediate south of the circular enclosure there is a square double ditched enclosure with two smaller square enclosures. The site also contains a number of pits, banks and linear ditches. Some of these ditches may relate to later field systems and there are some later field boundaries of probable Post Medieval date mapped within this site. The HHER records site APS_256 as Iron Age – Roman in date under Monument ID number MHU21078 and the site has also been partially mapped by the NMP. The site is overlain by WWII Anti Glider ditches at APS_255 which is discussed in more detail in [Section 5.6](#) of this report.

- 5.2.1.7 APS_118 and APS_121 are fragmented Iron Age – Roman enclosures which are visible as cropmarks. The enclosures are recorded by the HHER under Monument IDs MHU22297 and MHU22299. Both enclosures have been previously mapped by the NMP.
- 5.2.1.8 APS_153 is a square enclosure which is visible as cropmark and dates to the Iron Age – Roman period, with a likely entrance on the southern side. The site is recorded by the HHER under Monument ID MHU22179 and has also been previously mapped by the NMP.
- 5.2.1.9 APS_306 is a partial enclosure which is visible as a cropmark and dates to the Iron Age – Roman period. The site is recorded by the HHER under Monument ID MHU22336 and has also been previously mapped by the NMP.
- 5.2.1.10 APS_167 is the site of a possible square barrow recorded by the HHER under Monument ID MHU19425. The site is not clearly defined in the aerial imagery and as such could also be a subsidiary feature to the square barrows recorded by the HHER.
- 5.2.1.11 APS_195 is the site of an early ditched field system recorded by the HHER under Monument ID MHU2252. There is also a ring ditch within the site which has been recorded by the HHER under Monument ID MHU19369. The site is made up of linear ditches and also includes part of a double ditched trackway as well as scattered pit features. The site has been partially mapped by the NMP.
- 5.2.1.12 APS_203 is a field system that may also relate to a settlement site. The site comprises a series of linear and curvilinear ditches. The site also includes some later Medieval – Post Medieval ridge and furrow which overlays the earlier features. The site is recorded in the HHER under Monument IDs MHU8161 and MHU7177 and has also been partially mapped by the NMP.
- 5.2.1.13 APS_260 is a group of linear ditched features which appear to form the remnants of an early field system. The earlier features which are clustered at the southern end of the site are overlain by later Post Medieval field boundaries which have since been removed. The site also contains small pits and two curvilinear ditched features which are visible as cropmarks. The site has been partially mapped by the NMP and is recorded by the HHER under Monument IDs MHU331 and MHU327.

5.3 Roman

5.3.1.1 This assessment has not identified any sites that specifically date to the Roman period. The sites that are considered Iron Age – Roman have been discussed in the Prehistoric section.

5.4 Medieval

5.4.1.1 The majority of sites relating to the Medieval and Post Medieval periods relate to fields of ridge and furrow. The ridge and furrow mostly survives as cropmarks however in some areas there are examples of sites surviving as residual earthworks, most notably in the vicinity of the deserted settlement sites discussed below.

5.4.1.2 The Medieval settlement of Bentley is mapped at APS_68, where the site comprises banks and ditches which appear as a mixture of earthworks and cropmarks. There are also examples of residual ridge and furrow within the site.

5.4.1.3 APS_129 is the site of a Deserted Medieval Village which has been recorded by the HHER as MHU3350 and by the NMP. The village is known as Raventhorpe Medieval Village and is visible as earthwork remains. The site comprises banks, ditches and house platforms.

5.4.1.4 APS_147 is the site of Winthorpe Manor and the later Winthorpe Hall recorded by the HHER under Monument ID MHU3725. The site comprises a mixture of ditches and banks which are visible as residual earthworks and cropmarks. The site has also been partially mapped by the NMP.

5.4.1.5 APS_259 is the site of a shrunken Medieval settlement and manorial complex at Fraisthorpe. The site is largely indicated on the OS base mapping and has been partially mapped by the NMP. The site comprises banks, ditches and ridge and furrow in a variety of states of preservation from cropmark to residual earthwork. The site is recorded by the HHER under Monument ID MHU360.

5.5 Post Medieval

5.5.1.1 This assessment has identified 144 Post Medieval field boundaries which are no longer extant. These boundaries have been seen as structures in the form of fences or extant features in early aerial photographs and then observed as no longer present in later sorties. These former boundaries are visible as earthworks and cropmarks and are useful when identifying post enclosure land arrangement and use in this study area.

5.6 WWI and WWII

5.6.1.1 There are five sites that have been identified by this assessment of aerial imagery and Lidar data that date to WWI and WWII.

5.6.1.2 APS_035 is the site of probable war time features which take the form of structures and banked earthworks. The site has been previously mapped by the NMP.

- 5.6.1.3 APS_236 is the site of a former Military Airfield, RAF Lissett, which was first used during WWII. The airfield is still partially in use and some areas have been repurposed for wind turbines. The site has previously been partially mapped by the NMP and is recorded by the HHER under Monument ID MHU11147.
- 5.6.1.4 Two areas of anti-glider ditches have been recorded as sites APS_255 and APS_261. The ditches were observed as extant features in the 1940s and are now visible as residual earthworks and cropmarks. Both sites were partially mapped by the NMP and are recorded by the HHER under Monument ID MHU21077.
- 5.6.1.5 APS_258 is an extent of area polygon that covers the foreshore and beach at the northern extent of the route. The polygon highlights the presence of war time anti-invasion features, mostly in the form of Dragons Teeth. The features have been mapped in detail by the NMP.

5.7 Modern

- 5.7.1.1 The lines of five modern services have been identified as part of this assessment. The full extent of these are likely to extend beyond the study area.

5.8 Undated

- 5.8.1.1 There are 78 sites that have been identified through this aerial photographic and Lidar assessment where the exact date of the site is unknown. Of these 78 sites, 13 are banks, 33 are ditched features, two field boundaries, four hollows, two mounds and five pits.
- 5.8.1.2 There are three undated enclosures at sites APS_004, APS_033 and APS_082. The three enclosures have all be partially mapped by the NMP and are formed of ditches.
- 5.8.1.3 APS_025 is a trackway visible as a cropmark. The trackway is orientated approximately northwest – southeast and is formed of two linear ditched features.
- 5.8.1.4 A further trackway is visible at APS_140 forming part of a more complex site. The trackway is formed of two sinuous parallel ditches. There are also further ditches and pits within the immediate vicinity of the trackway. The site has been previously mapped by the NMP.
- 5.8.1.5 A third undated trackway is mapped at APS_191, the trackway is orientated southwest – northeast and is recorded by the HHER under Monument ID MHU9878.
- 5.8.1.6 APS_163 is an undated field system which is made up of a series of linear ditched features which are visible as cropmarks.

6 Conclusion

- 6.1.1.1 Aerial photographs and Lidar data gathered between the 1940s and the present time show a contiguous landscape of buried eroded cropmark features and earthworks across the study area.
- 6.1.1.2 Features dating to the prehistoric, medieval, post-medieval, modern and WWI/WWII periods have been identified and mapped. Some of these features have been previously identified by the HHER and the NMP, however in most cases this assessment has augmented these data.
- 6.1.1.3 It is highly likely that the below-ground archaeological deposits which cause the marks in crops will be more extensive, both horizontally and vertically, than shown via the remote sensing data. Absence of cropmark evidence, due to the multiple limitations detailed above, does not necessarily indicate an absence of archaeological deposits in apparently blank areas.
- 6.1.1.4 The separation of dating into specific periods of prehistory and history can only be confirmed by ground-based or documentary analyses, but some dating evidence for sites within the study area has been proposed by the HHER and the NMP. From a remote sensing viewpoint, this landscape may be analysed in a 'living' manner as one which developed over time and is likely to contain many multi-period elements. These will be more deeply stratified and extensive below the ground than is apparent in the results of the survey. The remains visible as cropmarks are all likely to have been impacted by agricultural practices, to some degree, with little or no micro-topographic features visible on the ground.
- 6.1.1.5 Overall this assessment has identified a range of features and has highlighted the potential for heritage assets within the study area and its immediate environs.

7 References

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Appendix A Historic England Coversearch

All aerial photographs held at Historic England (HE) Archive (enquiry references 118679, 118680, 118681, 118682, 119999, 120000, 123508, 123509, 123510, 123511, 123512, 123513, 123514 and 123515) that were studied as part of this assessment can be seen in the tables below.

Table A 1: Verticals.

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
ADA/061(Z)	112	TA 001 420	27-Aug-81	500100	442000
ADA/061(Z)	113	SE 998 417	27-Aug-81	499800	441700
ADA/075	5	TA 003 419	08-Feb-82	500300	441900
ADA/075	12	TA 002 420	08-Feb-82	500200	442000
ADA/075	13	TA 006 422	08-Feb-82	500600	442200
ADA/081(Y)	35	TA 000 419	22-Apr-82	500000	441900
ADA/081(Y)	36	TA 004 421	22-Apr-82	500400	442100
ADA/086(Z)	164	TA 005 422	17-May-82	500500	442200
ADA/086(Z)	165	TA 002 420	17-May-82	500200	442000
ADA/157(Y)	199	TA 007 385	06-Aug-83	500700	438500
ADA/157(Y)	200	TA 009 383	06-Aug-83	500900	438300
ADA/157(Y)	201	TA 011 381	06-Aug-83	501100	438100
ADA/216(Z)	132	TA 046 339	14-Aug-84	504600	433900
ADA/216(Z)	133	TA 042 340	14-Aug-84	504200	434000
ADA/216(Z)	134	TA 037 340	14-Aug-84	503700	434000
ADA/216(Z)	135	TA 033 340	14-Aug-84	503300	434000
ADA/216(Z)	136	TA 028 340	14-Aug-84	502800	434000
ADA/216(Z)	137	TA 023 340	14-Aug-84	502300	434000
MAL/68042	1	TA 008 419	13-Jun-68	500800	441900
MAL/68042	2	TA 015 414	13-Jun-68	501500	441400
MAL/70070	181	TA 105 555	16-Sep-70	510500	455500
MAL/70070	182	TA 105 562	16-Sep-70	510500	456200
MAL/70070	174	TA 111 563	25827	511100	456300
MAL/70070	175	TA 110 570	25827	511000	457000
MAL/70070	182	TA 105 562	25827	510500	456200
MAL/70070	183	TA 104 569	25827	510400	456900
MAL/70070	174	TA 111 563	16-Sep-70	511100	456300
MAL/75066	34	TA 008 390	08-Dec-75	500800	439000
MAL/75066	41	TA 003 372	08-Dec-75	500300	437200
MAL/75066	61	TA 013 357	08-Dec-75	501300	435700
MAL/75066	62	TA 022 357	08-Dec-75	502200	435700

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
MAL/75066	63	TA 031 358	08-Dec-75	503100	435800
MAL/75066	107	TA 033 342	08-Dec-75	503300	434200
MAL/75066	10	SE 993 406	08-Dec-75	499300	440600
MAL/75066	11	TA 001 405	08-Dec-75	500100	440500
MAL/75066	12	TA 010 405	08-Dec-75	501000	440500
MAL/75066	64	TA 039 358	08-Dec-75	503900	435800
MAL/75066	65	TA 047 357	08-Dec-75	504700	435700
MAL/75066	106	TA 042 342	08-Dec-75	504200	434200
MAL/75066	108	TA 024 342	08-Dec-75	502400	434200
MAL/76047	8	TA 135 589	27935	513500	458900
MAL/76047	9	TA 136 580	27935	513600	458000
MAL/76047	10	TA 137 571	27935	513700	457100
MAL/76047	9	TA 136 580	24-Jun-76	513600	458000
MAL/76047	10	TA 137 571	24-Jun-76	513700	457100
MAL/76047	11	TA 137 563	24-Jun-76	513700	456300
MAL/77021	120	TA 166 617	28310	516600	461700
MAL/77021	121	TA 166 607	28310	516600	460700
MAL/77021	122	TA 166 598	28310	516600	459800
MAL/77021	129	TA 156 598	28310	515600	459800
MAL/77021	119	TA 166 626	04-Jul-77	516600	462600
MAL/77021	120	TA 166 617	04-Jul-77	516600	461700
MAL/77021	121	TA 166 607	04-Jul-77	516600	460700
MAL/77021	129	TA 156 598	04-Jul-77	515600	459800
MAL/77022	169	TA 167 614	28312	516700	461400
MAL/77022	170	TA 167 624	28312	516700	462400
MAL/77022	177	TA 157 590	28312	515700	459000
MAL/77022	169	TA 167 614	06-Jul-77	516700	461400
MAL/77022	170	TA 167 624	06-Jul-77	516700	462400
MAL/77022	177	TA 157 590	06-Jul-77	515700	459000
OS/00916B	202	TA 002 369	15-Mar-00	500200	436900
OS/00916B	263	TA 002 382	15-Mar-00	500200	438200
OS/00916B	264	TA 002 394	15-Mar-00	500200	439400
OS/02224	5	TA 003 398	01-Oct-02	500300	439800
OS/02224	38	TA 003 386	01-Oct-02	500300	438600
OS/02224	44	TA 010 374	01-Oct-02	501000	437400
OS/02224	74	TA 017 362	01-Oct-02	501700	436200
OS/02224	75	TA 010 362	01-Oct-02	501000	436200
OS/02224	4	SE 996 398	01-Oct-02	499600	439800

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/02224	70	TA 044 362	01-Oct-02	504400	436200
OS/02224	71	TA 037 362	01-Oct-02	503700	436200
OS/02224	72	TA 031 362	01-Oct-02	503100	436200
OS/02224	73	TA 024 362	01-Oct-02	502400	436200
OS/02225	10	TA 017 350	01-Oct-02	501700	435000
OS/02225	11	TA 024 350	01-Oct-02	502400	435000
OS/02225	12	TA 031 350	01-Oct-02	503100	435000
OS/02225	13	TA 038 350	01-Oct-02	503800	435000
OS/02225	14	TA 045 350	01-Oct-02	504500	435000
OS/02659	68	SE 998 396	01-Oct-02	499800	439600
OS/02659	69	SE 998 389	01-Oct-02	499800	438900
OS/02659	60	SE 998 452	01-Oct-02	499800	445200
OS/02659	61	SE 998 445	01-Oct-02	499800	444500
OS/02659	62	SE 998 438	01-Oct-02	499800	443800
OS/02659	63	SE 998 431	01-Oct-02	499800	443100
OS/02659	64	SE 998 424	01-Oct-02	499800	442400
OS/02659	65	SE 998 417	01-Oct-02	499800	441700
OS/02659	66	SE 998 410	01-Oct-02	499800	441000
OS/02659	67	SE 999 403	01-Oct-02	499900	440300
OS/03605	68	TA 162 600	37771	516200	460000
OS/03605	69	TA 155 600	37771	515500	460000
OS/03605	70	TA 148 600	37771	514800	460000
OS/03605	176	TA 155 613	37771	515500	461300
OS/03605	177	TA 162 613	37771	516200	461300
OS/03605	67	TA 168 601	30-May-03	516800	460100
OS/03605	120	TA 169 625	30-May-03	516900	462500
OS/03605	178	TA 169 613	30-May-03	516900	461300
OS/03605	68	TA 162 600	30-May-03	516200	460000
OS/03605	177	TA 162 613	30-May-03	516200	461300
OS/04049	41	TA 003 400	24-May-04	500300	440000
OS/04049	42	SE 996 401	24-May-04	499600	440100
OS/04049	46	TA 003 437	24-May-04	500300	443700
OS/04049	47	TA 010 437	24-May-04	501000	443700
OS/04049	116	TA 010 413	24-May-04	501000	441300
OS/04049	117	TA 003 413	24-May-04	500300	441300
OS/04049	122	TA 003 450	24-May-04	500300	445000
OS/04049	123	TA 010 450	24-May-04	501000	445000
OS/04049	191	TA 003 425	24-May-04	500300	442500

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/04049	192	SE 996 425	24-May-04	499600	442500
OS/04049	196	TA 003 462	24-May-04	500300	446200
OS/04049	197	TA 010 462	24-May-04	501000	446200
OS/04049	198	TA 017 462	24-May-04	501700	446200
OS/04070	7	TA 018 474	22-Jun-04	501800	447400
OS/04070	8	TA 025 474	22-Jun-04	502500	447400
OS/04070	9	TA 032 474	22-Jun-04	503200	447400
OS/04106	61	TA 051 499	28-Aug-04	505100	449900
OS/04106	62	TA 045 499	28-Aug-04	504500	449900
OS/04106	75	TA 017 474	28-Aug-04	501700	447400
OS/04106	76	TA 024 474	28-Aug-04	502400	447400
OS/04106	77	TA 031 474	28-Aug-04	503100	447400
OS/04106	78	TA 038 474	28-Aug-04	503800	447400
OS/04106	129	TA 044 486	28-Aug-04	504400	448600
OS/04106	130	TA 038 486	28-Aug-04	503800	448600
OS/04106	60	TA 058 499	28-Aug-04	505800	449900
OS/04544	48	TA 086 549	28-May-04	508600	454900
OS/04544	49	TA 079 549	28-May-04	507900	454900
OS/04544	108	TA 072 537	28-May-04	507200	453700
OS/04544	109	TA 065 537	28-May-04	506500	453700
OS/04544	164	TA 093 562	28-May-04	509300	456200
OS/04544	165	TA 086 562	28-May-04	508600	456200
OS/04544	28	TA 148 598	38135	514800	459800
OS/04544	29	TA 155 598	38135	515500	459800
OS/04544	30	TA 162 599	38135	516200	459900
OS/04544	85	TA 141 586	38135	514100	458600
OS/04544	86	TA 148 586	38135	514800	458600
OS/04544	87	TA 155 586	38135	515500	458600
OS/04544	140	TA 120 574	38135	512000	457400
OS/04544	141	TA 127 574	38135	512700	457400
OS/04544	142	TA 134 574	38135	513400	457400
OS/04544	159	TA 127 562	38135	512700	456200
OS/04544	160	TA 120 561	38135	512000	456100
OS/04544	161	TA 113 561	38135	511300	456100
OS/04544	162	TA 106 562	38135	510600	456200
OS/04544	31	TA 169 599	28-May-04	516900	459900
OS/04544	29	TA 155 598	28-May-04	515500	459800
OS/04544	30	TA 162 599	28-May-04	516200	459900

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/04544	142	TA 134 574	28-May-04	513400	457400
OS/04544	143	TA 141 574	28-May-04	514100	457400
OS/04544	107	TA 079 537	28-May-04	507900	453700
OS/04544	161	TA 113 561	28-May-04	511300	456100
OS/04544	162	TA 106 562	28-May-04	510600	456200
OS/04544	163	TA 099 562	28-May-04	509900	456200
OS/04545	50	TA 093 561	28-May-04	509300	456100
OS/04545	51	TA 086 562	28-May-04	508600	456200
OS/04545	26	TA 120 574	38135	512000	457400
OS/04545	27	TA 127 574	38135	512700	457400
OS/04545	28	TA 134 574	38135	513400	457400
OS/04545	45	TA 127 562	38135	512700	456200
OS/04545	46	TA 120 562	38135	512000	456200
OS/04545	47	TA 113 562	38135	511300	456200
OS/04545	48	TA 106 561	38135	510600	456100
OS/04545	28	TA 134 574	28-May-04	513400	457400
OS/04545	29	TA 141 574	28-May-04	514100	457400
OS/04545	47	TA 113 562	28-May-04	511300	456200
OS/04545	48	TA 106 561	28-May-04	510600	456100
OS/04545	49	TA 099 561	28-May-04	509900	456100
OS/04558	11	TA 045 500	13-Jun-04	504500	450000
OS/04558	12	TA 051 500	13-Jun-04	505100	450000
OS/04558	13	TA 058 501	13-Jun-04	505800	450100
OS/04558	56	TA 065 513	13-Jun-04	506500	451300
OS/04558	57	TA 058 513	13-Jun-04	505800	451300
OS/04558	78	TA 058 525	13-Jun-04	505800	452500
OS/04558	79	TA 065 525	13-Jun-04	506500	452500
OS/09052	33	TA 033 349	02-Jul-09	503300	434900
OS/09052	34	TA 024 349	02-Jul-09	502400	434900
OS/09052	35	TA 015 349	02-Jul-09	501500	434900
OS/09052	62	TA 015 366	02-Jul-09	501500	436600
OS/09052	32	TA 042 349	02-Jul-09	504200	434900
OS/09052	63	TA 024 366	02-Jul-09	502400	436600
OS/09052	64	TA 033 366	02-Jul-09	503300	436600
OS/09052	65	TA 042 366	02-Jul-09	504200	436600
OS/09053	12	TA 006 383	02-Jul-09	500600	438300
OS/09053	37	TA 006 400	02-Jul-09	500600	440000
OS/09053	36	SE 997 400	02-Jul-09	499700	440000

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/09053	60	TA 006 417	02-Jul-09	500600	441700
OS/09053	61	SE 997 417	02-Jul-09	499700	441700
OS/09053	84	SE 997 433	02-Jul-09	499700	443300
OS/09053	85	TA 006 434	02-Jul-09	500600	443400
OS/09053	108	TA 006 450	02-Jul-09	500600	445000
OS/09053	109	SE 997 450	02-Jul-09	499700	445000
OS/09053	134	TA 015 467	02-Jul-09	501500	446700
OS/09053	135	TA 024 467	02-Jul-09	502400	446700
OS/09053	154	TA 042 484	02-Jul-09	504200	448400
OS/09053	155	TA 033 484	02-Jul-09	503300	448400
OS/09053	187	TA 042 501	02-Jul-09	504200	450100
OS/09053	188	TA 051 501	02-Jul-09	505100	450100
OS/09053	189	TA 060 501	02-Jul-09	506000	450100
OS/66124	101	TA 008 351	01-Jun-66	500800	435100
OS/68116	748	TA 002 399	14-May-68	500200	439900
OS/68116	749	TA 010 399	14-May-68	501000	439900
OS/68227	115	TA 005 387	14-Jun-68	500500	438700
OS/68227	195	TA 009 375	14-Jun-68	500900	437500
OS/68227	196	TA 005 363	14-Jun-68	500500	436300
OS/70155	25	TA 006 453	27-May-70	500600	445300
OS/70155	26	SE 999 453	27-May-70	499900	445300
OS/70155	32	TA 002 442	27-May-70	500200	444200
OS/70155	33	TA 009 442	27-May-70	500900	444200
OS/70155	67	TA 005 428	27-May-70	500500	442800
OS/70155	68	SE 998 429	27-May-70	499800	442900
OS/70155	77	SE 999 419	27-May-70	499900	441900
OS/70155	78	TA 006 418	27-May-70	500600	441800
OS/70155	24	TA 013 453	27-May-70	501300	445300
OS/70239	160	TA 004 403	18-Jun-70	500400	440300
OS/71137	2	TA 001 398	02-May-71	500100	439800
OS/71137	66	TA 002 410	02-May-71	500200	441000
OS/71137	67	TA 009 410	02-May-71	500900	441000
OS/71137	129	TA 002 433	02-May-71	500200	443300
OS/71137	130	TA 008 434	02-May-71	500800	443400
OS/71137	131	TA 007 445	02-May-71	500700	444500
OS/71137	132	TA 000 444	02-May-71	500000	444400
OS/71137	193	TA 004 455	02-May-71	500400	445500
OS/71137	194	TA 011 455	02-May-71	501100	445500

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/71137	195	TA 007 467	02-May-71	500700	446700
OS/71137	1	TA 007 398	02-May-71	500700	439800
OS/73198	186	TA 047 501	19-May-73	504700	450100
OS/73198	187	TA 054 501	19-May-73	505400	450100
OS/73198	218	TA 049 488	19-May-73	504900	448800
OS/73198	219	TA 042 488	19-May-73	504200	448800
OS/73198	233	TA 021 477	19-May-73	502100	447700
OS/73198	234	TA 027 477	19-May-73	502700	447700
OS/73198	235	TA 033 476	19-May-73	503300	447600
OS/73198	236	TA 040 476	19-May-73	504000	447600
OS/73198	188	TA 061 501	19-May-73	506100	450100
OS/73198	232	TA 015 477	19-May-73	501500	447700
OS/73202	65	TA 004 449	27-May-73	500400	444900
OS/73202	121	TA 017 463	27-May-73	501700	446300
OS/73202	122	TA 011 463	27-May-73	501100	446300
OS/73202	123	TA 004 463	27-May-73	500400	446300
OS/74084	90	TA 046 501	26-May-74	504600	450100
OS/74084	91	TA 053 502	26-May-74	505300	450200
OS/74084	92	TA 060 502	26-May-74	506000	450200
OS/74084	133	TA 070 526	26-May-74	507000	452600
OS/74084	134	TA 063 526	26-May-74	506300	452600
OS/74084	220	TA 058 512	26-May-74	505800	451200
OS/74084	221	TA 064 512	26-May-74	506400	451200
OS/74084	257	TA 089 547	26-May-74	508900	454700
OS/74084	258	TA 083 547	26-May-74	508300	454700
OS/74084	259	TA 076 548	26-May-74	507600	454800
OS/74084	260	TA 069 548	26-May-74	506900	454800
OS/74084	347	TA 065 537	26-May-74	506500	453700
OS/74084	348	TA 070 536	26-May-74	507000	453600
OS/74084	381	TA 094 560	26-May-74	509400	456000
OS/74084	382	TA 088 561	26-May-74	508800	456100
OS/74084	376	TA 128 559	27175	512800	455900
OS/74084	377	TA 121 559	27175	512100	455900
OS/74084	378	TA 114 560	27175	511400	456000
OS/74084	379	TA 108 560	27175	510800	456000
OS/74084	471	TA 120 574	27175	512000	457400
OS/74084	472	TA 126 574	27175	512600	457400
OS/74084	473	TA 133 574	27175	513300	457400

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/74084	473	TA 133 574	26-May-74	513300	457400
OS/74084	474	TA 140 574	26-May-74	514000	457400
OS/74084	349	TA 076 536	26-May-74	507600	453600
OS/74084	378	TA 114 560	26-May-74	511400	456000
OS/74084	379	TA 108 560	26-May-74	510800	456000
OS/74084	380	TA 101 560	26-May-74	510100	456000
OS/74085	490	TA 122 576	27175	512200	457600
OS/74085	491	TA 129 575	27175	512900	457500
OS/74085	492	TA 136 575	27175	513600	457500
OS/74085	505	TA 149 588	27175	514900	458800
OS/74085	506	TA 142 588	27175	514200	458800
OS/74085	704	TA 155 611	27175	515500	461100
OS/74085	705	TA 162 610	27175	516200	461000
OS/74085	710	TA 163 599	27175	516300	459900
OS/74085	711	TA 156 599	27175	515600	459900
OS/74085	712	TA 150 599	27175	515000	459900
OS/74085	824	TA 163 624	27175	516300	462400
OS/74085	706	TA 168 610	26-May-74	516800	461000
OS/74085	709	TA 169 599	26-May-74	516900	459900
OS/74085	825	TA 169 624	26-May-74	516900	462400
OS/74085	705	TA 162 610	26-May-74	516200	461000
OS/74085	710	TA 163 599	26-May-74	516300	459900
OS/74085	711	TA 156 599	26-May-74	515600	459900
OS/74085	492	TA 136 575	26-May-74	513600	457500
OS/74085	493	TA 143 575	26-May-74	514300	457500
OS/75261	1248	TA 169 624	27568	516900	462400
OS/75261	1249	TA 161 623	27568	516100	462300
OS/75261	1248	TA 169 624	23-Jun-75	516900	462400
OS/75261	1249	TA 161 623	23-Jun-75	516100	462300
OS/75291	1	TA 152 591	27575	515200	459100
OS/75291	2	TA 155 599	27575	515500	459900
OS/75291	3	TA 160 611	27575	516000	461100
OS/75291	19	TA 169 608	27575	516900	460800
OS/75291	17	TA 162 625	30-Jun-75	516200	462500
OS/75291	18	TA 165 617	30-Jun-75	516500	461700
OS/75291	19	TA 169 608	30-Jun-75	516900	460800
OS/75291	2	TA 155 599	30-Jun-75	515500	459900
OS/75291	3	TA 160 611	30-Jun-75	516000	461100

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/76081	63	TA 156 605	27919	515600	460500
OS/76081	64	TA 158 615	27919	515800	461500
OS/76081	81	TA 163 612	27919	516300	461200
OS/76081	82	TA 167 603	27919	516700	460300
OS/76081	80	TA 161 622	08-Jun-76	516100	462200
OS/76081	81	TA 163 612	08-Jun-76	516300	461200
OS/76081	82	TA 167 603	08-Jun-76	516700	460300
OS/76081	63	TA 156 605	08-Jun-76	515600	460500
OS/76081	64	TA 158 615	08-Jun-76	515800	461500
OS/80118	4	TA 008 378	Jul-80	500800	437800
OS/80118	5	TA 014 374	Jul-80	501400	437400
OS/80118	18	TA 029 355	Jul-80	502900	435500
OS/80118	19	TA 025 361	Jul-80	502500	436100
OS/80118	20	TA 022 367	Jul-80	502200	436700
OS/80118	21	TA 018 373	Jul-80	501800	437300
OS/80118	22	TA 014 379	Jul-80	501400	437900
OS/80118	23	TA 011 384	Jul-80	501100	438400
OS/80118	24	TA 007 389	Jul-80	500700	438900
OS/80118	25	TA 004 394	Jul-80	500400	439400
OS/80118	26	TA 000 398	Jul-80	500000	439800
OS/80118	27	SE 997 403	Jul-80	499700	440300
OS/80118	7	TA 026 367	Jul-80	502600	436700
OS/80118	8	TA 032 364	Jul-80	503200	436400
OS/80118	9	TA 038 361	Jul-80	503800	436100
OS/80118	10	TA 045 359	Jul-80	504500	435900
OS/82037	32	TA 001 396	18-Apr-82	500100	439600
OS/82037	33	TA 007 395	18-Apr-82	500700	439500
OS/82037	59	TA 008 389	18-Apr-82	500800	438900
OS/82037	60	TA 003 388	18-Apr-82	500300	438800
OS/82037	61	TA 007 379	18-Apr-82	500700	437900
OS/82037	62	TA 011 379	18-Apr-82	501100	437900
OS/82037	85	TA 011 372	18-Apr-82	501100	437200
OS/82037	86	TA 007 372	18-Apr-82	500700	437200
OS/82037	29	TA 007 405	18-Apr-82	500700	440500
OS/82037	30	TA 003 405	18-Apr-82	500300	440500
OS/82040	15	TA 163 625	30059	516300	462500
OS/82040	15	TA 163 625	18-Apr-82	516300	462500
OS/82149	49	TA 055 492	13-Jul-82	505500	449200

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/86163	42	TA 150 606	31627	515000	460600
OS/86163	43	TA 150 601	31627	515000	460100
OS/86163	44	TA 150 596	31627	515000	459600
OS/86163	45	TA 150 590	31627	515000	459000
OS/86163	42	TA 150 606	03-Aug-86	515000	460600
OS/86163	43	TA 150 601	03-Aug-86	515000	460100
OS/87139	8	TA 029 342	09-Sep-87	502900	434200
OS/87139	9	TA 035 343	09-Sep-87	503500	434300
OS/87139	10	TA 040 343	09-Sep-87	504000	434300
OS/87139	11	TA 046 343	09-Sep-87	504600	434300
OS/87201	27	TA 025 340	23-Oct-87	502500	434000
OS/87201	28	TA 030 340	23-Oct-87	503000	434000
OS/87201	29	TA 034 340	23-Oct-87	503400	434000
OS/87201	30	TA 039 340	23-Oct-87	503900	434000
OS/87201	31	TA 044 340	23-Oct-87	504400	434000
OS/87201	32	TA 048 340	23-Oct-87	504800	434000
OS/88264	138	TA 036 356	18-Sep-88	503600	435600
OS/88264	139	TA 030 356	18-Sep-88	503000	435600
OS/88264	140	TA 023 356	18-Sep-88	502300	435600
OS/88264	141	TA 016 355	18-Sep-88	501600	435500
OS/88264	155	TA 028 342	18-Sep-88	502800	434200
OS/88264	156	TA 034 342	18-Sep-88	503400	434200
OS/88264	190	TA 009 380	18-Sep-88	500900	438000
OS/88264	191	TA 003 380	18-Sep-88	500300	438000
OS/88264	199	TA 004 369	18-Sep-88	500400	436900
OS/88264	200	TA 011 370	18-Sep-88	501100	437000
OS/88264	137	TA 043 356	18-Sep-88	504300	435600
OS/88264	157	TA 040 342	18-Sep-88	504000	434200
OS/88264	158	TA 046 342	18-Sep-88	504600	434200
OS/88264	203	TA 031 369	18-Sep-88	503100	436900
OS/88264	204	TA 036 369	18-Sep-88	503600	436900
OS/88264	205	TA 042 369	18-Sep-88	504200	436900
OS/88264	201	TA 018 369	18-Sep-88	501800	436900
OS/88264	202	TA 024 369	18-Sep-88	502400	436900
OS/88265	4	TA 002 394	18-Sep-88	500200	439400
OS/88265	5	TA 009 394	18-Sep-88	500900	439400
OS/89305	26	TA 151 604	32678	515100	460400
OS/89305	27	TA 158 604	32678	515800	460400

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/89305	28	TA 164 603	32678	516400	460300
OS/89305	31	TA 166 621	32678	516600	462100
OS/89305	32	TA 160 620	32678	516000	462000
OS/89305	28	TA 164 603	19-Jun-89	516400	460300
OS/89305	29	TA 172 604	19-Jun-89	517200	460400
OS/89305	31	TA 166 621	19-Jun-89	516600	462100
OS/89305	27	TA 158 604	19-Jun-89	515800	460400
OS/89305	32	TA 160 620	19-Jun-89	516000	462000
OS/89404	115	TA 020 369	05-Sep-89	502000	436900
OS/89404	116	TA 020 360	05-Sep-89	502000	436000
OS/89404	117	TA 020 351	05-Sep-89	502000	435100
OS/91317	24	TA 072 532	02-Oct-91	507200	453200
OS/92265	40	TA 158 602	33808	515800	460200
OS/92265	41	TA 155 606	33808	515500	460600
OS/92265	59	TA 144 591	33808	514400	459100
OS/92265	60	TA 147 587	33808	514700	458700
OS/92265	108	TA 142 578	33808	514200	457800
OS/92265	109	TA 140 583	33808	514000	458300
OS/92265	115	TA 155 590	33808	515500	459000
OS/92265	116	TA 155 596	33808	515500	459600
OS/92265	117	TA 157 601	33808	515700	460100
OS/92265	118	TA 157 606	33808	515700	460600
OS/92265	142	TA 167 611	33808	516700	461100
OS/92265	143	TA 168 606	33808	516800	460600
OS/92265	140	TA 167 621	23-Jul-92	516700	462100
OS/92265	141	TA 167 616	23-Jul-92	516700	461600
OS/92265	142	TA 167 611	23-Jul-92	516700	461100
OS/92265	143	TA 168 606	23-Jul-92	516800	460600
OS/92265	117	TA 157 601	23-Jul-92	515700	460100
OS/92265	118	TA 157 606	23-Jul-92	515700	460600
OS/92265	107	TA 144 573	23-Jul-92	514400	457300
OS/92265	108	TA 142 578	23-Jul-92	514200	457800
OS/92329	146	TA 008 392	26-May-92	500800	439200
OS/92329	147	TA 008 387	26-May-92	500800	438700
OS/92329	103	TA 019 461	26-May-92	501900	446100
OS/92329	134	TA 008 461	26-May-92	500800	446100
OS/92329	135	TA 008 455	26-May-92	500800	445500
OS/92329	136	TA 008 450	26-May-92	500800	445000

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/92329	137	TA 008 444	26-May-92	500800	444400
OS/92329	138	TA 007 438	26-May-92	500700	443800
OS/92329	139	TA 007 432	26-May-92	500700	443200
OS/92329	140	TA 007 427	26-May-92	500700	442700
OS/92329	141	TA 007 421	26-May-92	500700	442100
OS/92329	142	TA 007 415	26-May-92	500700	441500
OS/92329	143	TA 007 410	26-May-92	500700	441000
OS/92329	144	TA 007 404	26-May-92	500700	440400
OS/92329	133	TA 006 467	26-May-92	500600	446700
OS/92329	145	TA 008 398	26-May-92	500800	439800
OS/95723	32	SE 999 394	17-Aug-95	499900	439400
OS/95723	33	TA 000 381	17-Aug-95	500000	438100
OS/96005	6	TA 004 395	07-Mar-96	500400	439500
OS/96005	84	TA 009 384	07-Mar-96	500900	438400
OS/96005	85	TA 004 384	07-Mar-96	500400	438400
OS/96005	88	TA 004 375	07-Mar-96	500400	437500
OS/96005	89	TA 009 375	07-Mar-96	500900	437500
OS/96005	165	TA 014 365	07-Mar-96	501400	436500
OS/96005	166	TA 009 365	07-Mar-96	500900	436500
OS/96005	172	TA 014 355	07-Mar-96	501400	435500
OS/96005	173	TA 019 355	07-Mar-96	501900	435500
OS/96005	174	TA 024 355	07-Mar-96	502400	435500
OS/96005	175	TA 030 354	07-Mar-96	503000	435400
OS/96005	176	TA 035 354	07-Mar-96	503500	435400
OS/96005	244	TA 034 345	07-Mar-96	503400	434500
OS/96005	245	TA 029 345	07-Mar-96	502900	434500
OS/96005	246	TA 024 345	07-Mar-96	502400	434500
OS/96005	5	SE 999 395	07-Mar-96	499900	439500
OS/96005	159	TA 045 365	07-Mar-96	504500	436500
OS/96005	160	TA 040 365	07-Mar-96	504000	436500
OS/96005	161	TA 034 365	07-Mar-96	503400	436500
OS/96005	162	TA 029 365	07-Mar-96	502900	436500
OS/96005	163	TA 024 365	07-Mar-96	502400	436500
OS/96005	177	TA 040 355	07-Mar-96	504000	435500
OS/96005	178	TA 045 355	07-Mar-96	504500	435500
OS/96005	242	TA 044 345	07-Mar-96	504400	434500
OS/96005	243	TA 039 345	07-Mar-96	503900	434500
OS/96005	164	TA 019 365	07-Mar-96	501900	436500

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/96544	24	TA 152 605	35177	515200	460500
OS/96544	25	TA 158 605	35177	515800	460500
OS/96544	26	TA 165 606	35177	516500	460600
OS/96544	29	TA 165 618	35177	516500	461800
OS/96544	26	TA 165 606	22-Apr-96	516500	460600
OS/96544	29	TA 165 618	22-Apr-96	516500	461800
OS/96544	78	TA 165 631	22-Apr-96	516500	463100
OS/96544	25	TA 158 605	22-Apr-96	515800	460500
OS/97048	95	TA 096 556	28-Mar-97	509600	455600
OS/97048	96	TA 089 556	28-Mar-97	508900	455600
OS/97048	97	TA 082 556	28-Mar-97	508200	455600
OS/97048	120	TA 069 543	28-Mar-97	506900	454300
OS/97048	121	TA 076 543	28-Mar-97	507600	454300
OS/97048	122	TA 083 543	28-Mar-97	508300	454300
OS/97048	156	TA 069 531	28-Mar-97	506900	453100
OS/97048	157	TA 062 531	28-Mar-97	506200	453100
OS/97048	23	TA 145 594	35517	514500	459400
OS/97048	24	TA 151 594	35517	515100	459400
OS/97048	33	TA 144 581	35517	514400	458100
OS/97048	34	TA 137 581	35517	513700	458100
OS/97048	70	TA 103 568	35517	510300	456800
OS/97048	71	TA 110 568	35517	511000	456800
OS/97048	72	TA 117 568	35517	511700	456800
OS/97048	73	TA 124 568	35517	512400	456800
OS/97048	74	TA 131 568	35517	513100	456800
OS/97048	75	TA 138 568	35517	513800	456800
OS/97048	92	TA 117 556	35517	511700	455600
OS/97048	93	TA 110 556	35517	511000	455600
OS/97048	94	TA 103 556	35517	510300	455600
OS/97048	25	TA 158 594	28-Mar-97	515800	459400
OS/97048	26	TA 165 594	28-Mar-97	516500	459400
OS/97048	74	TA 131 568	28-Mar-97	513100	456800
OS/97048	75	TA 138 568	28-Mar-97	513800	456800
OS/97048	70	TA 103 568	28-Mar-97	510300	456800
OS/97048	71	TA 110 568	28-Mar-97	511000	456800
OS/97051	11	TA 055 506	30-Mar-97	505500	450600
OS/97051	12	TA 062 506	30-Mar-97	506200	450600
OS/97051	53	TA 062 518	30-Mar-97	506200	451800

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/97051	54	TA 055 518	30-Mar-97	505500	451800
OS/97051	52	TA 069 518	30-Mar-97	506900	451800
OS/97128	44	SE 999 405	01-May-97	499900	440500
OS/97128	45	SE 999 454	01-May-97	499900	445400
OS/97128	126	SE 999 415	01-May-97	499900	441500
OS/97783	42	SE 999 425	11-Sep-97	499900	442500
OS/97783	43	SE 999 445	11-Sep-97	499900	444500
OS/97783	125	SE 999 435	11-Sep-97	499900	443500
OS/99344	6	TA 160 595	36411	516000	459500
OS/99344	7	TA 161 601	36411	516100	460100
OS/99344	8	TA 162 608	36411	516200	460800
OS/99344	9	TA 163 615	36411	516300	461500
OS/99344	19	TA 165 614	36411	516500	461400
OS/99344	20	TA 166 608	36411	516600	460800
OS/99344	31	TA 156 605	36411	515600	460500
OS/99344	32	TA 159 598	36411	515900	459800
OS/99344	18	TA 164 621	08-Sep-99	516400	462100
OS/99344	19	TA 165 614	08-Sep-99	516500	461400
OS/99344	20	TA 166 608	08-Sep-99	516600	460800
OS/99344	7	TA 161 601	08-Sep-99	516100	460100
OS/99344	8	TA 162 608	08-Sep-99	516200	460800
OS/99344	21	TA 166 601	08-Sep-99	516600	460100
OS/99344	31	TA 156 605	08-Sep-99	515600	460500
OS/99344	32	TA 159 598	08-Sep-99	515900	459800
OS/99591	13	TA 045 495	25-Jun-99	504500	449500
OS/99591	14	TA 050 495	25-Jun-99	505000	449500
OS/99591	44	TA 004 444	25-Jun-99	500400	444400
OS/99591	45	SE 999 444	25-Jun-99	499900	444400
OS/99591	53	TA 035 485	25-Jun-99	503500	448500
OS/99591	54	TA 040 485	25-Jun-99	504000	448500
OS/99591	55	TA 045 485	25-Jun-99	504500	448500
OS/99591	86	TA 004 435	25-Jun-99	500400	443500
OS/99591	87	SE 999 434	25-Jun-99	499900	443400
OS/99591	92	TA 019 474	25-Jun-99	501900	447400
OS/99591	93	TA 025 474	25-Jun-99	502500	447400
OS/99591	94	TA 029 474	25-Jun-99	502900	447400
OS/99591	95	TA 035 474	25-Jun-99	503500	447400
OS/99591	128	TA 004 425	25-Jun-99	500400	442500

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
OS/99591	129	SE 999 424	25-Jun-99	499900	442400
OS/99591	132	TA 009 464	25-Jun-99	500900	446400
OS/99591	133	TA 014 464	25-Jun-99	501400	446400
OS/99591	170	TA 004 415	25-Jun-99	500400	441500
OS/99591	171	SE 999 415	25-Jun-99	499900	441500
OS/99591	173	TA 004 454	25-Jun-99	500400	445400
OS/99591	174	TA 009 454	25-Jun-99	500900	445400
OS/99591	212	TA 004 404	25-Jun-99	500400	440400
OS/99591	213	SE 999 404	25-Jun-99	499900	440400
RAF/106G/LA/212	3099	TA 001 454	13-Apr-45	500100	445400
RAF/106G/LA/212	3100	TA 008 449	13-Apr-45	500800	444900
RAF/106G/LA/212	4101	TA 001 429	13-Apr-45	500100	442900
RAF/106G/LA/212	4102	TA 008 424	13-Apr-45	500800	442400
RAF/106G/LA/212	3165	TA 002 429	13-Apr-45	500200	442900
RAF/106G/LA/212	4165	TA 009 448	13-Apr-45	500900	444800
RAF/106G/LA/215	4132	TA 007 395	13-Apr-45	500700	439500
RAF/106G/LA/215	4133	TA 013 390	13-Apr-45	501300	439000
RAF/106G/LA/215	3128	SE 998 415	13-Apr-45	499800	441500
RAF/106G/LA/215	3129	TA 003 411	13-Apr-45	500300	441100
RAF/106G/LA/215	4024	TA 005 437	13-Apr-45	500500	443700
RAF/106G/LA/215	4025	TA 000 441	13-Apr-45	500000	444100
RAF/106G/LA/215	4138	TA 040 367	13-Apr-45	504000	436700
RAF/106G/LA/215	4139	TA 045 362	13-Apr-45	504500	436200
RAF/106G/LA/215	4140	TA 051 358	13-Apr-45	505100	435800
RAF/106G/LA/215	3023	SE 998 418	13-Apr-45	499800	441800
RAF/106G/LA/215	3024	SE 993 422	13-Apr-45	499300	442200
RAF/106G/LA/215	4023	TA 010 433	13-Apr-45	501000	443300
RAF/106G/LA/215	4131	TA 002 400	13-Apr-45	500200	440000
RAF/106G/LA/253	1108	TA 002 389	28-Apr-45	500200	438900
RAF/106G/LA/253	1109	TA 006 387	28-Apr-45	500600	438700
RAF/106G/LA/253	1110	TA 011 385	28-Apr-45	501100	438500
RAF/106G/LA/253	1227	TA 006 371	28-Apr-45	500600	437100
RAF/106G/LA/253	1228	TA 010 368	28-Apr-45	501000	436800
RAF/106G/LA/253	1229	TA 014 365	28-Apr-45	501400	436500
RAF/106G/LA/253	1230	TA 018 361	28-Apr-45	501800	436100
RAF/106G/LA/253	1231	TA 023 358	28-Apr-45	502300	435800
RAF/106G/LA/253	1232	TA 027 355	28-Apr-45	502700	435500
RAF/106G/LA/253	2122	TA 013 372	28-Apr-45	501300	437200

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/106G/LA/253	2123	TA 010 374	28-Apr-45	501000	437400
RAF/106G/LA/253	2124	TA 006 376	28-Apr-45	500600	437600
RAF/106G/LA/253	2229	TA 010 356	28-Apr-45	501000	435600
RAF/106G/LA/253	2230	TA 014 352	28-Apr-45	501400	435200
RAF/106G/LA/253	2231	TA 018 349	28-Apr-45	501800	434900
RAF/106G/LA/253	2232	TA 023 345	28-Apr-45	502300	434500
RAF/106G/LA/253	1001	TA 040 360	28-Apr-45	504000	436000
RAF/106G/LA/253	1002	TA 036 361	28-Apr-45	503600	436100
RAF/106G/LA/253	1003	TA 032 363	28-Apr-45	503200	436300
RAF/106G/LA/253	1004	TA 029 364	28-Apr-45	502900	436400
RAF/106G/LA/253	1005	TA 025 366	28-Apr-45	502500	436600
RAF/106G/LA/253	1118	TA 024 356	28-Apr-45	502400	435600
RAF/106G/LA/253	1119	TA 021 357	28-Apr-45	502100	435700
RAF/106G/LA/253	1120	TA 017 359	28-Apr-45	501700	435900
RAF/106G/LA/253	1121	TA 014 361	28-Apr-45	501400	436100
RAF/106G/UK/1032	3267	TA 149 603	16768	514900	460300
RAF/106G/UK/1032	3378	TA 131 581	16768	513100	458100
RAF/106G/UK/1032	4267	TA 163 610	16768	516300	461000
RAF/106G/UK/1032	4268	TA 162 614	16768	516200	461400
RAF/106G/UK/1032	4378	TA 147 590	16768	514700	459000
RAF/106G/UK/1032	4379	TA 146 596	16768	514600	459600
RAF/106G/UK/1032	4264	TA 168 621	27-Nov-45	516800	462100
RAF/106G/UK/1032	4265	TA 173 614	27-Nov-45	517300	461400
RAF/106G/UK/1032	3267	TA 149 603	27-Nov-45	514900	460300
RAF/106G/UK/1032	4267	TA 163 610	27-Nov-45	516300	461000
RAF/106G/UK/1666	4056	TA 033 342	23-Jul-46	503300	434200
RAF/106G/UK/1666	4057	TA 028 342	23-Jul-46	502800	434200
RAF/106G/UK/1666	4058	TA 023 342	23-Jul-46	502300	434200
RAF/106G/UK/1666	4115	TA 035 356	23-Jul-46	503500	435600
RAF/106G/UK/1666	4116	TA 030 356	23-Jul-46	503000	435600
RAF/106G/UK/1666	4117	TA 025 356	23-Jul-46	502500	435600
RAF/106G/UK/1666	4118	TA 020 357	23-Jul-46	502000	435700
RAF/106G/UK/1666	3179	TA 043 354	23-Jul-46	504300	435400
RAF/106G/UK/1666	3180	TA 038 354	23-Jul-46	503800	435400
RAF/106G/UK/1666	3181	TA 033 355	23-Jul-46	503300	435500
RAF/106G/UK/1666	3182	TA 028 355	23-Jul-46	502800	435500
RAF/106G/UK/1666	4054	TA 042 341	23-Jul-46	504200	434100
RAF/106G/UK/1666	4055	TA 038 342	23-Jul-46	503800	434200

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/106G/UK/1666	3183	TA 023 355	23-Jul-46	502300	435500
RAF/106G/UK/723	3147	SE 993 394	26-Aug-45	499300	439400
RAF/106G/UK/723	4146	TA 019 381	26-Aug-45	501900	438100
RAF/106G/UK/723	3149	SE 996 409	26-Aug-45	499600	440900
RAF/106G/UK/723	3150	SE 997 416	26-Aug-45	499700	441600
RAF/106G/UK/723	3151	SE 999 424	26-Aug-45	499900	442400
RAF/106G/UK/723	3152	TA 000 431	26-Aug-45	500000	443100
RAF/106G/UK/723	3153	TA 002 439	26-Aug-45	500200	443900
RAF/106G/UK/723	3154	TA 003 446	26-Aug-45	500300	444600
RAF/106G/UK/723	3155	TA 004 454	26-Aug-45	500400	445400
RAF/106G/UK/723	3162	TA 048 478	26-Aug-45	504800	447800
RAF/106G/UK/723	4158	TA 035 477	26-Aug-45	503500	447700
RAF/106G/UK/723	4159	TA 036 485	26-Aug-45	503600	448500
RAF/106G/UK/723	4160	TA 037 494	26-Aug-45	503700	449400
RAF/106G/UK/723	4162	TA 019 476	26-Aug-45	501900	447600
RAF/106G/UK/723	4163	TA 020 470	26-Aug-45	502000	447000
RAF/106G/UK/723	4157	TA 034 468	26-Aug-45	503400	446800
RAF/106G/UK/723	3148	SE 995 401	26-Aug-45	499500	440100
RAF/163B/UK563	1894	TA 170 611	14894	517000	461100
RAF/163B/UK563	1928	TA 167 604	14894	516700	460400
RAF/163B/UK563	1929	TA 165 617	14894	516500	461700
RAF/163B/UK563	1893	TA 171 605	10-Oct-40	517100	460500
RAF/163B/UK563	1894	TA 170 611	10-Oct-40	517000	461100
RAF/163B/UK563	1895	TA 170 619	10-Oct-40	517000	461900
RAF/163B/UK563	1896	TA 170 626	10-Oct-40	517000	462600
RAF/163B/UK563	1928	TA 167 604	10-Oct-40	516700	460400
RAF/163B/UK563	1929	TA 165 617	10-Oct-40	516500	461700
RAF/39/A/323	171	TA 011 386	26-Mar-82	501100	438600
RAF/39/A/323	173	TA 024 367	26-Mar-82	502400	436700
RAF/39/A/323	174	TA 030 357	26-Mar-82	503000	435700
RAF/39/A/323	175	TA 037 347	26-Mar-82	503700	434700
RAF/3G/TUD/UK/1	5002	TA 008 395	14-Dec-45	500800	439500
RAF/3G/TUD/UK/1	5003	TA 007 392	14-Dec-45	500700	439200
RAF/3G/TUD/UK/1	5004	TA 007 388	14-Dec-45	500700	438800
RAF/3G/TUD/UK/1	5005	TA 007 384	14-Dec-45	500700	438400
RAF/3G/TUD/UK/1	5006	TA 007 380	14-Dec-45	500700	438000
RAF/3G/TUD/UK/1	5007	TA 007 376	14-Dec-45	500700	437600
RAF/3G/TUD/UK/1	5008	TA 007 373	14-Dec-45	500700	437300

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/3G/TUD/UK/1	5009	TA 006 369	14-Dec-45	500600	436900
RAF/3G/TUD/UK/1	5010	TA 006 365	14-Dec-45	500600	436500
RAF/3G/TUD/UK/1	5011	TA 006 361	14-Dec-45	500600	436100
RAF/3G/TUD/UK/1	5060	TA 015 371	14-Dec-45	501500	437100
RAF/3G/TUD/UK/1	5061	TA 015 367	14-Dec-45	501500	436700
RAF/3G/TUD/UK/1	5062	TA 016 363	14-Dec-45	501600	436300
RAF/3G/TUD/UK/1	5063	TA 016 360	14-Dec-45	501600	436000
RAF/3G/TUD/UK/1	5064	TA 016 356	14-Dec-45	501600	435600
RAF/3G/TUD/UK/1	5014	TA 021 355	14-Dec-45	502100	435500
RAF/3G/TUD/UK/1	5015	TA 021 351	14-Dec-45	502100	435100
RAF/3G/TUD/UK/1	5016	TA 022 348	14-Dec-45	502200	434800
RAF/3G/TUD/UK/1	5018	TA 033 348	14-Dec-45	503300	434800
RAF/3G/TUD/UK/1	5074	TA 040 350	14-Dec-45	504000	435000
RAF/3G/TUD/UK/1	5075	TA 040 346	14-Dec-45	504000	434600
RAF/3G/TUD/UK/1	5012	TA 022 364	14-Dec-45	502200	436400
RAF/3G/TUD/UK/1	5013	TA 021 360	14-Dec-45	502100	436000
RAF/3G/TUD/UK/1	5017	TA 022 344	14-Dec-45	502200	434400
RAF/3G/TUD/UK/1	5014	TA 034 363	14-Dec-45	503400	436300
RAF/3G/TUD/UK/1	5015	TA 034 360	14-Dec-45	503400	436000
RAF/3G/TUD/UK/1	5016	TA 033 356	14-Dec-45	503300	435600
RAF/3G/TUD/UK/1	5017	TA 033 352	14-Dec-45	503300	435200
RAF/3G/TUD/UK/1	5019	TA 033 344	14-Dec-45	503300	434400
RAF/3G/TUD/UK/1	5070	TA 041 365	14-Dec-45	504100	436500
RAF/3G/TUD/UK/1	5071	TA 041 361	14-Dec-45	504100	436100
RAF/3G/TUD/UK/1	5072	TA 041 357	14-Dec-45	504100	435700
RAF/3G/TUD/UK/1	5073	TA 041 353	14-Dec-45	504100	435300
RAF/3G/TUD/UK/1	5076	TA 040 342	14-Dec-45	504000	434200
RAF/3G/TUD/UK/1	5001	TA 008 399	14-Dec-45	500800	439900
RAF/3G/TUD/UK/1	5065	TA 016 352	14-Dec-45	501600	435200
RAF/3G/TUD/UK/1	5117	TA 021 352	14-Dec-45	502100	435200
RAF/3G/TUD/UK/1	5118	TA 021 348	14-Dec-45	502100	434800
RAF/3G/TUD/UK/217	5256	TA 038 345	23-May-46	503800	434500
RAF/3G/TUD/UK/217	5226	TA 050 345	23-May-46	505000	434500
RAF/3G/TUD/UK/87	5144	TA 012 353	27-Mar-46	501200	435300
RAF/3G/TUD/UK/87	5145	TA 012 357	27-Mar-46	501200	435700
RAF/3G/TUD/UK/87	5146	TA 012 360	27-Mar-46	501200	436000
RAF/3G/TUD/UK/87	5147	TA 011 364	27-Mar-46	501100	436400
RAF/3G/TUD/UK/87	5148	TA 010 367	27-Mar-46	501000	436700

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/3G/TUD/UK/87	5149	TA 009 371	27-Mar-46	500900	437100
RAF/3G/TUD/UK/87	5150	TA 008 375	27-Mar-46	500800	437500
RAF/540/572	3010	TA 022 365	30-Jul-51	502200	436500
RAF/540/572	4013	TA 002 391	30-Jul-51	500200	439100
RAF/540/572	3013	TA 000 410	30-Jul-51	500000	441000
RAF/540/572	3014	TA 008 412	30-Jul-51	500800	441200
RAF/540/572	3008	TA 040 360	30-Jul-51	504000	436000
RAF/540/572	3009	TA 031 362	30-Jul-51	503100	436200
RAF/540/572	4014	TA 010 393	30-Jul-51	501000	439300
RAF/540/613	3114	TA 005 389	09-Oct-51	500500	438900
RAF/540/613	3115	TA 007 390	09-Oct-51	500700	439000
RAF/540/613	4114	TA 008 380	09-Oct-51	500800	438000
RAF/540/613	4115	TA 010 381	09-Oct-51	501000	438100
RAF/540/613	3109	TA 007 401	09-Oct-51	500700	440100
RAF/540/613	4107	TA 007 412	09-Oct-51	500700	441200
RAF/540/613	4108	TA 005 411	09-Oct-51	500500	441100
RAF/540/613	4109	TA 003 410	09-Oct-51	500300	441000
RAF/540/812	5019	TA 004 381	16-Jul-52	500400	438100
RAF/540/812	5020	TA 006 378	16-Jul-52	500600	437800
RAF/540/812	5021	TA 007 374	16-Jul-52	500700	437400
RAF/540/812	5022	TA 007 370	16-Jul-52	500700	437000
RAF/540/812	5023	TA 007 367	16-Jul-52	500700	436700
RAF/540/812	5024	TA 008 362	16-Jul-52	500800	436200
RAF/540/812	5025	TA 009 358	16-Jul-52	500900	435800
RAF/540/812	5026	TA 011 354	16-Jul-52	501100	435400
RAF/540/812	5027	TA 012 350	16-Jul-52	501200	435000
RAF/540/812	5105	TA 034 345	16-Jul-52	503400	434500
RAF/540/812	5106	TA 034 349	16-Jul-52	503400	434900
RAF/540/812	5052	TA 038 364	16-Jul-52	503800	436400
RAF/540/812	5053	TA 039 361	16-Jul-52	503900	436100
RAF/540/812	5054	TA 040 357	16-Jul-52	504000	435700
RAF/540/812	5055	TA 041 353	16-Jul-52	504100	435300
RAF/540/812	5056	TA 043 349	16-Jul-52	504300	434900
RAF/540/812	5057	TA 044 345	16-Jul-52	504400	434500
RAF/540/812	5107	TA 033 353	16-Jul-52	503300	435300
RAF/540/812	5108	TA 033 357	16-Jul-52	503300	435700
RAF/540/812	5109	TA 033 361	16-Jul-52	503300	436100
RAF/540/812	5110	TA 034 366	16-Jul-52	503400	436600

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/541/184	3093	TA 012 375	19-Oct-48	501200	437500
RAF/541/184	3094	TA 004 374	19-Oct-48	500400	437400
RAF/541/184	3134	TA 013 366	19-Oct-48	501300	436600
RAF/541/184	4093	TA 010 395	19-Oct-48	501000	439500
RAF/541/184	4094	TA 002 395	19-Oct-48	500200	439500
RAF/541/184	4203	TA 035 356	19-Oct-48	503500	435600
RAF/541/184	4204	TA 025 356	19-Oct-48	502500	435600
RAF/541/184	4205	TA 015 356	19-Oct-48	501500	435600
RAF/541/184	3006	TA 011 423	19-Oct-48	501100	442300
RAF/541/184	3007	TA 003 423	19-Oct-48	500300	442300
RAF/541/184	3046	TA 012 405	19-Oct-48	501200	440500
RAF/541/184	3047	TA 005 403	19-Oct-48	500500	440300
RAF/541/184	4006	TA 009 444	19-Oct-48	500900	444400
RAF/541/184	4007	TA 002 443	19-Oct-48	500200	444300
RAF/541/184	3203	TA 022 340	19-Oct-48	502200	434000
RAF/541/184	4046	TA 010 425	19-Oct-48	501000	442500
RAF/541/184	4047	TA 002 423	19-Oct-48	500200	442300
RAF/541/189	4065	TA 014 350	26-Oct-48	501400	435000
RAF/541/189	4136	TA 032 344	26-Oct-48	503200	434400
RAF/541/189	4137	TA 024 344	26-Oct-48	502400	434400
RAF/541/189	3333	TA 039 492	26-Oct-48	503900	449200
RAF/541/189	3313	TA 072 532	26-Oct-48	507200	453200
RAF/541/189	3314	TA 066 532	26-Oct-48	506600	453200
RAF/541/189	4311	TA 086 547	26-Oct-48	508600	454700
RAF/541/189	4312	TA 080 548	26-Oct-48	508000	454800
RAF/541/189	4313	TA 074 549	26-Oct-48	507400	454900
RAF/541/189	4310	TA 092 547	26-Oct-48	509200	454700
RAF/541/546	3007	TA 164 609	18415	516400	460900
RAF/541/546	3008	TA 158 608	18415	515800	460800
RAF/541/546	3036	TA 156 606	18415	515600	460600
RAF/541/546	3037	TA 150 605	18415	515000	460500
RAF/541/546	4034	TA 167 623	18415	516700	462300
RAF/541/546	3006	TA 170 609	01-Jun-50	517000	460900
RAF/541/546	3007	TA 164 609	01-Jun-50	516400	460900
RAF/541/546	4034	TA 167 623	01-Jun-50	516700	462300
RAF/541/546	3034	TA 170 606	01-Jun-50	517000	460600
RAF/541/546	3035	TA 163 606	01-Jun-50	516300	460600
RAF/541/546	3036	TA 156 606	01-Jun-50	515600	460600

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/543/2331	114	TA 016 343	25-Jul-63	501600	434300
RAF/543/2331	115	TA 010 350	25-Jul-63	501000	435000
RAF/58/2062	119	TA 033 353	22-Nov-56	503300	435300
RAF/58/2062	120	TA 026 352	22-Nov-56	502600	435200
RAF/58/2062	121	TA 020 351	22-Nov-56	502000	435100
RAF/58/2062	117	TA 047 352	22-Nov-56	504700	435200
RAF/58/2062	118	TA 040 352	22-Nov-56	504000	435200
RAF/58/2162	34	TA 029 340	07-May-57	502900	434000
RAF/58/2162	35	TA 036 341	07-May-57	503600	434100
RAF/58/2162	85	TA 037 355	07-May-57	503700	435500
RAF/58/2162	86	TA 031 356	07-May-57	503100	435600
RAF/58/2162	87	TA 025 356	07-May-57	502500	435600
RAF/58/2162	88	TA 019 356	07-May-57	501900	435600
RAF/58/2162	89	TA 013 357	07-May-57	501300	435700
RAF/58/2162	89	TA 015 375	07-May-57	501500	437500
RAF/58/2162	90	TA 009 375	07-May-57	500900	437500
RAF/58/2162	36	TA 044 341	07-May-57	504400	434100
RAF/58/2162	84	TA 042 355	07-May-57	504200	435500
RAF/58/5554	120	TA 051 500	20-Nov-62	505100	450000
RAF/58/5554	121	TA 043 503	20-Nov-62	504300	450300
RAF/58/5554	157	TA 044 487	20-Nov-62	504400	448700
RAF/58/5554	158	TA 036 491	20-Nov-62	503600	449100
RAF/58/5554	190	TA 028 473	20-Nov-62	502800	447300
RAF/58/5554	191	TA 020 477	20-Nov-62	502000	447700
RAF/58/5554	16	TA 072 537	20-Nov-62	507200	453700
RAF/58/5554	17	TA 063 540	20-Nov-62	506300	454000
RAF/58/5554	45	TA 067 517	20-Nov-62	506700	451700
RAF/58/5554	46	TA 059 520	20-Nov-62	505900	452000
RAF/58/5554	119	TA 058 497	20-Nov-62	505800	449700
RAF/58/5554	81	TA 064 505	20-Nov-62	506400	450500
RAF/58/5554	82	TA 055 507	20-Nov-62	505500	450700
RAF/58/893	5140	TA 005 365	10-Jun-52	500500	436500
RAF/58/893	5141	TA 005 369	10-Jun-52	500500	436900
RAF/58/893	5142	TA 005 373	10-Jun-52	500500	437300
RAF/58/893	5143	TA 004 377	10-Jun-52	500400	437700
RAF/58/893	5144	TA 004 381	10-Jun-52	500400	438100
RAF/58/893	5145	TA 004 385	10-Jun-52	500400	438500
RAF/58/893	5146	TA 004 388	10-Jun-52	500400	438800

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/58/893	5203	TA 024 346	10-Jun-52	502400	434600
RAF/58/893	5204	TA 023 350	10-Jun-52	502300	435000
RAF/58/893	5205	TA 023 354	10-Jun-52	502300	435400
RAF/58/893	5270	TA 031 345	10-Jun-52	503100	434500
RAF/58/893	5149	TA 041 366	10-Jun-52	504100	436600
RAF/58/893	5150	TA 042 362	10-Jun-52	504200	436200
RAF/58/893	5151	TA 043 358	10-Jun-52	504300	435800
RAF/58/893	5152	TA 044 354	10-Jun-52	504400	435400
RAF/58/893	5153	TA 045 351	10-Jun-52	504500	435100
RAF/58/893	5154	TA 046 347	10-Jun-52	504600	434700
RAF/58/893	5155	TA 047 343	10-Jun-52	504700	434300
RAF/58/893	5202	TA 024 343	10-Jun-52	502400	434300
RAF/58/893	5206	TA 022 358	10-Jun-52	502200	435800
RAF/58/893	5207	TA 022 362	10-Jun-52	502200	436200
RAF/58/899	5311	TA 033 347	19-Jun-52	503300	434700
RAF/58/899	5355	TA 042 348	19-Jun-52	504200	434800
RAF/58/899	5310	TA 033 343	19-Jun-52	503300	434300
RAF/58/899	5354	TA 043 345	19-Jun-52	504300	434500
RAF/58/899	5356	TA 041 351	19-Jun-52	504100	435100
RAF/58/899	5357	TA 041 354	19-Jun-52	504100	435400
RAF/58/899	5358	TA 040 357	19-Jun-52	504000	435700
RAF/58/899	5359	TA 039 361	19-Jun-52	503900	436100
RAF/58/899	5360	TA 039 366	19-Jun-52	503900	436600
RAF/58/899	5380	TA 018 348	19-Jun-52	501800	434800
RAF/58/9309	180	TA 091 545	22-Jan-69	509100	454500
RAF/613A/BR13/1	26	TA 167 608	14820	516700	460800
RAF/613A/BR13/1	27	TA 166 615	14820	516600	461500
RAF/613A/BR13/1	26	TA 167 608	28-Jul-40	516700	460800
RAF/613A/BR13/1	27	TA 166 615	28-Jul-40	516600	461500
RAF/613A/BR13/1	1	TA 172 612	28-Jul-40	517200	461200
RAF/613A/BR13/1	2	TA 172 620	28-Jul-40	517200	462000
RAF/613A/BR13/1	3	TA 172 627	28-Jul-40	517200	462700
RAF/613A/BR13/1	25	TA 168 601	28-Jul-40	516800	460100
RAF/613A/BR53	8	TA 171 608	15050	517100	460800
RAF/613A/BR53	9	TA 170 614	15050	517000	461400
RAF/613A/BR53	8	TA 171 608	15-Mar-41	517100	460800
RAF/613A/BR53	9	TA 170 614	15-Mar-41	517000	461400
RAF/613A/BR53	10	TA 170 621	15-Mar-41	517000	462100

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/613H/BR53	10	TA 169 611	15050	516900	461100
RAF/613H/BR53	11	TA 169 616	15050	516900	461600
RAF/613H/BR53	9	TA 169 606	15-Mar-41	516900	460600
RAF/613H/BR53	10	TA 169 611	15-Mar-41	516900	461100
RAF/613H/BR53	11	TA 169 616	15-Mar-41	516900	461600
RAF/613H/BR53	12	TA 169 620	15-Mar-41	516900	462000
RAF/613H/BR53	13	TA 170 626	15-Mar-41	517000	462600
RAF/82/1376	127	TA 014 365	27-Mar-56	501400	436500
RAF/82/1376	128	TA 021 364	27-Mar-56	502100	436400
RAF/82/1376	128	TA 020 345	27-Mar-56	502000	434500
RAF/82/1376	129	TA 027 345	27-Mar-56	502700	434500
RAF/82/1376	130	TA 034 345	27-Mar-56	503400	434500
RAF/82/1376	129	TA 027 364	27-Mar-56	502700	436400
RAF/82/1376	130	TA 034 363	27-Mar-56	503400	436300
RAF/82/1376	131	TA 041 363	27-Mar-56	504100	436300
RAF/82/1376	132	TA 047 364	27-Mar-56	504700	436400
RAF/82/1376	131	TA 040 344	27-Mar-56	504000	434400
RAF/82/1376	132	TA 047 345	27-Mar-56	504700	434500
RAF/82/1422	92	TA 035 345	23-May-56	503500	434500
RAF/82/1422	93	TA 028 346	23-May-56	502800	434600
RAF/82/1422	94	TA 021 346	23-May-56	502100	434600
RAF/82/1422	95	TA 017 368	23-May-56	501700	436800
RAF/82/1422	96	TA 010 368	23-May-56	501000	436800
RAF/82/1422	91	TA 042 345	23-May-56	504200	434500
RAF/82/1422	91	TA 043 368	23-May-56	504300	436800
RAF/82/1422	92	TA 036 368	23-May-56	503600	436800
RAF/82/1422	93	TA 029 368	23-May-56	502900	436800
RAF/82/1422	94	TA 023 368	23-May-56	502300	436800
RAF/CPE/UK/1748	2177	TA 016 371	21-Sep-46	501600	437100
RAF/CPE/UK/1748	2178	TA 009 371	21-Sep-46	500900	437100
RAF/CPE/UK/1748	3187	TA 032 347	21-Sep-46	503200	434700
RAF/CPE/UK/1748	3188	TA 026 347	21-Sep-46	502600	434700
RAF/CPE/UK/1748	3189	TA 020 347	21-Sep-46	502000	434700
RAF/CPE/UK/1748	5188	TA 006 390	21-Sep-46	500600	439000
RAF/CPE/UK/1748	5189	TA 000 390	21-Sep-46	500000	439000
RAF/CPE/UK/1748	4195	TA 008 408	21-Sep-46	500800	440800
RAF/CPE/UK/1748	4196	TA 002 408	21-Sep-46	500200	440800
RAF/CPE/UK/1748	6187	TA 005 431	21-Sep-46	500500	443100

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/CPE/UK/1748	6188	SE 999 431	21-Sep-46	499900	443100
RAF/CPE/UK/1748	3185	TA 045 348	21-Sep-46	504500	434800
RAF/CPE/UK/1748	3186	TA 039 347	21-Sep-46	503900	434700
RAF/CPE/UK/1748	2174	TA 034 373	21-Sep-46	503400	437300
RAF/CPE/UK/1834	3054	TA 009 379	13-Nov-46	500900	437900
RAF/CPE/UK/1834	3055	TA 005 379	13-Nov-46	500500	437900
RAF/CPE/UK/1834	4053	TA 008 394	13-Nov-46	500800	439400
RAF/CPE/UK/1834	4054	TA 003 394	13-Nov-46	500300	439400
RAF/CPE/UK/1834	3101	TA 001 440	13-Nov-46	500100	444000
RAF/CPE/UK/1834	3102	TA 007 441	13-Nov-46	500700	444100
RAF/CPE/UK/1834	3178	TA 016 457	13-Nov-46	501600	445700
RAF/CPE/UK/1834	3179	TA 011 456	13-Nov-46	501100	445600
RAF/CPE/UK/1834	3180	TA 007 455	13-Nov-46	500700	445500
RAF/CPE/UK/1834	4055	SE 999 394	13-Nov-46	499900	439400
RAF/CPE/UK/1834	3248	TA 055 513	13-Nov-46	505500	451300
RAF/CPE/UK/1834	3249	TA 060 513	13-Nov-46	506000	451300
RAF/CPE/UK/1834	3304	TA 070 531	13-Nov-46	507000	453100
RAF/CPE/UK/1834	3305	TA 065 530	13-Nov-46	506500	453000
RAF/CPE/UK/1834	3373	TA 074 536	13-Nov-46	507400	453600
RAF/CPE/UK/1834	3374	TA 068 536	13-Nov-46	506800	453600
RAF/CPE/UK/1834	3372	TA 079 536	13-Nov-46	507900	453600
RAF/CPE/UK/1834	3250	TA 065 514	13-Nov-46	506500	451400
RAF/CPE/UK/1839	3008	TA 142 583	17119	514200	458300
RAF/CPE/UK/1839	3009	TA 137 583	17119	513700	458300
RAF/CPE/UK/1839	4004	TA 160 599	17119	516000	459900
RAF/CPE/UK/1839	4005	TA 155 599	17119	515500	459900
RAF/CPE/UK/1839	4006	TA 149 599	17119	514900	459900
RAF/CPE/UK/1839	4211	TA 157 620	17119	515700	462000
RAF/CPE/UK/1839	4212	TA 163 619	17119	516300	461900
RAF/CPE/UK/1839	4003	TA 166 599	13-Nov-46	516600	459900
RAF/CPE/UK/1839	4213	TA 168 618	13-Nov-46	516800	461800
RAF/CPE/UK/1839	4004	TA 160 599	13-Nov-46	516000	459900
RAF/CPE/UK/1839	4212	TA 163 619	13-Nov-46	516300	461900
RAF/CPE/UK/1879	1358	TA 007 450	06-Dec-46	500700	445000
RAF/CPE/UK/1879	1359	TA 002 450	06-Dec-46	500200	445000
RAF/CPE/UK/1879	2264	TA 000 428	06-Dec-46	500000	442800
RAF/CPE/UK/1879	2265	TA 005 427	06-Dec-46	500500	442700
RAF/CPE/UK/1879	2352	TA 051 491	06-Dec-46	505100	449100

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/CPE/UK/1879	2353	TA 046 490	06-Dec-46	504600	449000
RAF/CPE/UK/1879	2354	TA 042 489	06-Dec-46	504200	448900
RAF/CPE/UK/1879	3264	SE 999 445	06-Dec-46	499900	444500
RAF/CPE/UK/1879	3265	TA 004 444	06-Dec-46	500400	444400
RAF/CPE/UK/1879	3354	TA 034 472	06-Dec-46	503400	447200
RAF/CPE/UK/1879	3355	TA 030 472	06-Dec-46	503000	447200
RAF/CPE/UK/1879	3356	TA 025 471	06-Dec-46	502500	447100
RAF/CPE/UK/1879	3357	TA 021 471	06-Dec-46	502100	447100
RAF/CPE/UK/1879	3358	TA 016 471	06-Dec-46	501600	447100
RAF/CPE/UK/1879	3359	TA 012 471	06-Dec-46	501200	447100
RAF/CPE/UK/1879	4264	SE 999 407	06-Dec-46	499900	440700
RAF/CPE/UK/1879	4265	TA 004 406	06-Dec-46	500400	440600
RAF/CPE/UK/1879	4348	TA 064 516	06-Dec-46	506400	451600
RAF/CPE/UK/1879	4349	TA 059 515	06-Dec-46	505900	451500
RAF/CPE/UK/1879	4350	TA 054 515	06-Dec-46	505400	451500
RAF/CPE/UK/1879	1267	TA 015 464	06-Dec-46	501500	446400
RAF/CPE/UK/1879	3266	TA 009 443	06-Dec-46	500900	444300
RAF/CPE/UK/1879	4266	TA 009 405	06-Dec-46	500900	440500
RAF/CPE/UK/1911	3085	TA 061 503	27-Dec-46	506100	450300
RAF/CPE/UK/1911	3086	TA 055 505	27-Dec-46	505500	450500
RAF/CPE/UK/1911	3096	TA 070 549	27-Dec-46	507000	454900
RAF/CPE/UK/1911	3097	TA 078 550	27-Dec-46	507800	455000
RAF/CPE/UK/1911	3098	TA 086 551	27-Dec-46	508600	455100
RAF/CPE/UK/1911	3099	TA 094 551	27-Dec-46	509400	455100
RAF/CPE/UK/1911	4081	TA 067 519	27-Dec-46	506700	451900
RAF/CPE/UK/1911	4082	TA 061 522	27-Dec-46	506100	452200
RAF/CPE/UK/1911	4091	TA 067 531	27-Dec-46	506700	453100
RAF/CPE/UK/1911	4092	TA 074 532	27-Dec-46	507400	453200
RAF/CPE/UK/1911	4174	TA 085 561	27-Dec-46	508500	456100
RAF/CPE/UK/1911	4175	TA 093 562	27-Dec-46	509300	456200
RAF/CPE/UK/1911	3185	TA 137 586	17163	513700	458600
RAF/CPE/UK/1911	3186	TA 145 587	17163	514500	458700
RAF/CPE/UK/1911	3187	TA 152 588	17163	515200	458800
RAF/CPE/UK/1911	4110	TA 152 593	17163	515200	459300
RAF/CPE/UK/1911	4111	TA 144 593	17163	514400	459300
RAF/CPE/UK/1911	4177	TA 108 565	17163	510800	456500
RAF/CPE/UK/1911	4178	TA 115 566	17163	511500	456600
RAF/CPE/UK/1911	4179	TA 123 567	17163	512300	456700

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/CPE/UK/1911	4180	TA 130 569	17163	513000	456900
RAF/CPE/UK/1911	4181	TA 138 570	17163	513800	457000
RAF/CPE/UK/1911	4109	TA 159 593	27-Dec-46	515900	459300
RAF/CPE/UK/1911	3116	TA 141 575	27-Dec-46	514100	457500
RAF/CPE/UK/1911	3117	TA 134 575	27-Dec-46	513400	457500
RAF/CPE/UK/1911	4180	TA 130 569	27-Dec-46	513000	456900
RAF/CPE/UK/1911	4181	TA 138 570	27-Dec-46	513800	457000
RAF/CPE/UK/1911	4176	TA 100 564	27-Dec-46	510000	456400
RAF/CPE/UK/1911	4177	TA 108 565	27-Dec-46	510800	456500
RAF/CPE/UK/1911	4178	TA 115 566	27-Dec-46	511500	456600
RAF/CPE/UK/2396	3073	TA 005 413	17-Nov-47	500500	441300
RAF/CPE/UK/2396	3074	SE 999 413	17-Nov-47	499900	441300
RAF/CPE/UK/2396	4073	TA 007 431	17-Nov-47	500700	443100
RAF/CPE/UK/2396	4074	TA 002 430	17-Nov-47	500200	443000
RAF/CPE/UK/2396	3088	TA 064 529	17-Nov-47	506400	452900
RAF/CPE/UK/2396	3089	TA 072 529	17-Nov-47	507200	452900
RAF/CPE/UK/2396	3129	TA 093 559	17-Nov-47	509300	455900
RAF/CPE/UK/2396	3130	TA 088 560	17-Nov-47	508800	456000
RAF/CPE/UK/2396	4087	TA 056 513	17-Nov-47	505600	451300
RAF/CPE/UK/2396	4088	TA 065 512	17-Nov-47	506500	451200
RAF/CPE/UK/2396	3125	TA 115 555	17488	511500	455500
RAF/CPE/UK/2396	3126	TA 110 556	17488	511000	455600
RAF/CPE/UK/2396	3127	TA 104 557	17488	510400	455700
RAF/CPE/UK/2396	4123	TA 133 571	17488	513300	457100
RAF/CPE/UK/2396	4124	TA 127 571	17488	512700	457100
RAF/CPE/UK/2396	4125	TA 121 571	17488	512100	457100
RAF/CPE/UK/2396	4126	TA 115 572	17488	511500	457200
RAF/CPE/UK/2396	4122	TA 139 571	17-Nov-47	513900	457100
RAF/CPE/UK/2396	4123	TA 133 571	17-Nov-47	513300	457100
RAF/CPE/UK/2396	3127	TA 104 557	17-Nov-47	510400	455700
RAF/CPE/UK/2396	3128	TA 099 558	17-Nov-47	509900	455800
RAF/CPE/UK/2396	4126	TA 115 572	17-Nov-47	511500	457200
RAF/CPE/UK/2396	4127	TA 110 573	17-Nov-47	511000	457300
RAF/RRF/1074	19	TA 030 472	25-Nov-57	503000	447200
RAF/RRF/1074	20	TA 029 477	25-Nov-57	502900	447700
RAF/RRF/1074	21	TA 044 488	25-Nov-57	504400	448800
RAF/RRF/1074	22	TA 042 493	25-Nov-57	504200	449300
RAF/RRF/1074	20	TA 045 483	25-Nov-57	504500	448300

Sortie Number	Frame Number	Centre Point	Date	Easting	Northing
RAF/S615	176	TA 174 605	15-Oct-41	517400	460500
RAF/S615	177	TA 176 611	15-Oct-41	517600	461100

Table A 2: Obliques.

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0039 / 1	NMR 1147 / 377-378	10-Aug-77	500300	439200
TA 0039 / 12	NMR 28227 / 62	19-Oct-11	500500	439600
TA 0042 / 10	CAP 8327 / 62	27-Mar-56	500500	442500
TA 0042 / 11	CAP 8327 / 63	27-Mar-56	500500	442500
TA 0042 / 12	CAP 8327 / 64	27-Mar-56	500500	442500
TA 0042 / 13	CAP 8327 / 65	27-Mar-56	500500	442500
TA 0042 / 14	CAP 8327 / 66	27-Mar-56	500500	442500
TA 0042 / 15	CAP 8327 / 67	27-Mar-56	500500	442500
TA 0042 / 2	NMR 183 / 191-193	29-Apr-70	500400	442500
TA 0042 / 3	NMR 224 / 280-282	19-Jul-70	500500	442500
TA 0042 / 4	NMR 224 / 283	19-Jul-70	500500	442500
TA 0042 / 5	NMR 224 / 284-286	19-Jul-70	500500	442500
TA 0042 / 6	CAP 8093 / 58	15-Jul-52	500500	442500
TA 0042 / 7	CAP 8093 / 59	15-Jul-52	500500	442500
TA 0042 / 8	CAP 8093 / 60	15-Jul-52	500500	442500
TA 0042 / 9	CAP 8327 / 61	27-Mar-56	500500	442500
TA 0044 / 12	NMR 28208 / 45	05-Aug-11	500100	444500
TA 0044 / 13	NMR 28208 / 46	05-Aug-11	500100	444500
TA 0044 / 14	NMR 28208 / 47	05-Aug-11	500100	444500
TA 0044 / 4	NMR 17586 / 05	09-Jul-01	500500	444500
TA 0044 / 5	NMR 17586 / 06	09-Jul-01	500500	444500
TA 0044 / 6	NMR 20643 / 54	21-Mar-07	500300	444300
TA 0044 / 7	NMR 20643 / 55	21-Mar-07	500300	444400
TA 0044 / 8	NMR 20643 / 56	21-Mar-07	500300	444400
TA 0044 / 9	NMR 20643 / 57	21-Mar-07	500300	444300
TA 0046 / 1	NMR 12734 / 15	01-Aug-95	500900	446000
TA 0046 / 10	NMR 28208 / 32	05-Aug-11	500900	446100
TA 0046 / 11	NMR 28208 / 33	05-Aug-11	500900	446100
TA 0046 / 12	NMR 28208 / 34	05-Aug-11	500900	446000
TA 0046 / 13	NMR 28208 / 35	05-Aug-11	500900	446000
TA 0046 / 14	NMR 28208 / 36	05-Aug-11	500900	446000
TA 0046 / 15	NMR 28208 / 37	05-Aug-11	500900	446000

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0046 / 16	NMR 28208 / 38	05-Aug-11	500900	446100
TA 0046 / 2	NMR 12734 / 16	01-Aug-95	500900	446000
TA 0046 / 3	NMR 12734 / 17	01-Aug-95	500900	446000
TA 0046 / 4	NMR 12729 / 03	01-Aug-95	500900	446000
TA 0046 / 5	NMR 12729 / 04	01-Aug-95	500900	446000
TA 0046 / 6	NMR 12729 / 05	01-Aug-95	500900	446000
TA 0046 / 9	NMR 28208 / 31	05-Aug-11	500900	446000
TA 0134 / 3	NMR 17625 / 33	27-Jul-01	501900	434800
TA 0134 / 4	NMR 17625 / 34	27-Jul-01	501900	434800
TA 0134 / 5	NMR 17629 / 15	27-Jul-01	501900	434900
TA 0134 / 6	NMR 17629 / 16	27-Jul-01	501900	434800
TA 0135 / 1	NMR 28081 / 24	21-Jul-10	501500	435400
TA 0135 / 2	NMR 28081 / 25	21-Jul-10	501500	435400
TA 0135 / 3	NMR 28191 / 33	12-Jul-11	501500	435300
TA 0135 / 4	NMR 28191 / 34	12-Jul-11	501400	435400
TA 0135 / 5	NMR 28191 / 35	12-Jul-11	501500	435300
TA 0145 / 51	NMR 28208 / 39	05-Aug-11	501000	445600
TA 0146 / 1	JAP 789 / 7A	20-Aug-74	501500	446700
TA 0147 / 1	NMR 2148 / 1001	29-Jul-83	501400	447000
TA 0147 / 2	NMR 2148 / 1003	29-Jul-83	501400	447300
TA 0147 / 3	JAP 6228 / 17	22-Aug-74	501600	447200
TA 0147 / 5	NMR 2148 / 1002	29-Jul-83	501400	447000
TA 0234 / 1	CCC 5141 / M334	1935	502300	434400
TA 0234 / 2	CCC 5141 / M335	1935	502700	434600
TA 0235 / 1	JAP 1443 / 32	31-Jul-75	502900	435000
TA 0235 / 2	JAP 1443 / 33	31-Jul-75	502000	435600
TA 0235 / 3	NMR 28191 / 44	12-Jul-11	502800	435000
TA 0235 / 4	NMR 28191 / 45	12-Jul-11	502800	435000
TA 0235 / 5	NMR 28191 / 46	12-Jul-11	502700	435000
TA 0235 / 6	NMR 28191 / 47	12-Jul-11	502700	435000
TA 0236 / 1	NMR 771 / 365-368	02-Aug-74	502800	436400
TA 0236 / 10	NMR 28191 / 53	12-Jul-11	502900	436400
TA 0236 / 11	NMR 28191 / 54	12-Jul-11	502800	436400
TA 0236 / 12	NMR 28191 / 55	12-Jul-11	502800	436400
TA 0236 / 13	NMR 28191 / 56	12-Jul-11	502800	436400
TA 0236 / 14	NMR 28191 / 57	12-Jul-11	502800	436300
TA 0236 / 15	NMR 28191 / 58	12-Jul-11	502800	436400
TA 0236 / 16	NMR 28191 / 59	12-Jul-11	502900	436400

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0236 / 17	NMR 28191 / 60	12-Jul-11	502900	436400
TA 0236 / 18	NMR 28224 / 41	19-Oct-11	502500	436400
TA 0236 / 19	NMR 28224 / 42	19-Oct-11	502500	436500
TA 0236 / 2	NMR 1147 / 63-64	09-Aug-77	502700	436500
TA 0236 / 20	NMR 28224 / 43	19-Oct-11	502500	436400
TA 0236 / 21	NMR 28224 / 44	19-Oct-11	502500	436400
TA 0236 / 22	NMR 28224 / 45	19-Oct-11	502500	436400
TA 0236 / 23	NMR 28224 / 46	19-Oct-11	502500	436400
TA 0236 / 24	NMR 28224 / 47	19-Oct-11	502500	436400
TA 0236 / 3	NMR 1147 / 66-67	09-Aug-77	502700	436500
TA 0236 / 4	NMR 1147 / 68-69	09-Aug-77	502500	436100
TA 0236 / 5	NMR 28191 / 48	12-Jul-11	502600	436300
TA 0236 / 6	NMR 28191 / 49	12-Jul-11	502600	436300
TA 0236 / 7	NMR 28191 / 50	12-Jul-11	502600	436300
TA 0236 / 8	NMR 28191 / 51	12-Jul-11	502600	436300
TA 0236 / 9	NMR 28191 / 52	12-Jul-11	502900	436400
TA 0334 / 1	NMR 1972 / 061	21-Jul-81	503300	434600
TA 0334 / 10	NMR 12906 / 34	08-Aug-96	503900	434900
TA 0334 / 11	NMR 12906 / 35	08-Aug-96	503900	434900
TA 0334 / 12	NMR 12906 / 36	08-Aug-96	503900	434900
TA 0334 / 13	NMR 17604 / 31	16-Jul-01	503800	434900
TA 0334 / 14	NMR 17604 / 32	16-Jul-01	503800	434900
TA 0334 / 15	NMR 17604 / 33	16-Jul-01	503600	434800
TA 0334 / 16	NMR 17604 / 34	16-Jul-01	503600	434800
TA 0334 / 17	NMR 17604 / 35	16-Jul-01	503500	434700
TA 0334 / 18	NMR 17604 / 36	16-Jul-01	503800	434900
TA 0334 / 19	NMR 17604 / 38	16-Jul-01	503800	434900
TA 0334 / 2	NMR 1972 / 064	21-Jul-81	503500	434900
TA 0334 / 20	NMR 17593 / 31	16-Jul-01	503700	434900
TA 0334 / 21	NMR 17593 / 32	16-Jul-01	503700	434900
TA 0334 / 22	NMR 17593 / 33	16-Jul-01	503500	434700
TA 0334 / 23	NMR 17593 / 34	16-Jul-01	503500	434700
TA 0334 / 24	NMR 17593 / 35	16-Jul-01	503900	434900
TA 0334 / 25	NMR 17593 / 36	16-Jul-01	503900	434900
TA 0334 / 26	NMR 28191 / 36	12-Jul-11	503900	434900
TA 0334 / 27	NMR 28191 / 37	12-Jul-11	503800	434900
TA 0334 / 28	NMR 28191 / 40	12-Jul-11	503900	434900
TA 0334 / 29	NMR 28191 / 41	12-Jul-11	503800	434900

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0334 / 3	NMR 1972 / 067	21-Jul-81	503500	434900
TA 0334 / 30	NMR 28191 / 42	12-Jul-11	503700	434900
TA 0334 / 31	NMR 28432 / 47	15-Jul-13	503400	434700
TA 0334 / 32	NMR 28432 / 48	15-Jul-13	503400	434700
TA 0334 / 33	NMR 28432 / 49	15-Jul-13	503500	434700
TA 0334 / 34	NMR 28432 / 50	15-Jul-13	503900	434800
TA 0334 / 4	CCC 5141 / M336	1935	503200	434800
TA 0334 / 5	NMR 1972 / 062	21-Jul-81	503300	434600
TA 0334 / 6	NMR 1972 / 063	21-Jul-81	503300	434600
TA 0334 / 7	NMR 1972 / 065	21-Jul-81	503500	434900
TA 0334 / 8	NMR 1972 / 066	21-Jul-81	503500	434900
TA 0334 / 9	NMR 1972 / 068	21-Jul-81	503500	434900
TA 0335 / 1	NMR 817 / 132-133	07-May-75	503300	435200
TA 0335 / 10	NMR 12916 / 52	08-Aug-96	503900	435000
TA 0335 / 11	NMR 12916 / 53	08-Aug-96	503900	435000
TA 0335 / 12	NMR 12916 / 54	08-Aug-96	503900	435000
TA 0335 / 13	NMR 12916 / 55	08-Aug-96	503900	435000
TA 0335 / 14	NMR 28191 / 43	12-Jul-11	503800	435000
TA 0335 / 2	NMR 1972 / 069	21-Jul-81	503500	435000
TA 0335 / 3	NMR 2120 / 3044	30-Jun-82	503800	435000
TA 0335 / 4	CCC 5141 / M337	1935	503500	435000
TA 0335 / 5	CCC 5141 / M338	1935	503800	435100
TA 0335 / 6	NMR 1972 / 070	21-Jul-81	503500	435000
TA 0335 / 7	NMR 1972 / 071	21-Jul-81	503500	435000
TA 0335 / 8	NMR 1972 / 072	21-Jul-81	503500	435000
TA 0335 / 9	NMR 2120 / 3045	30-Jun-82	503800	435000
TA 0336 / 10	NMR 12890 / 07	02-Aug-96	503700	436800
TA 0336 / 11	NMR 12890 / 08	02-Aug-96	503700	436800
TA 0336 / 12	NMR 12890 / 09	02-Aug-96	503800	436800
TA 0336 / 13	NMR 12890 / 10	02-Aug-96	503800	436800
TA 0336 / 14	NMR 12900 / 48	02-Aug-96	503600	436800
TA 0336 / 15	NMR 12900 / 49	02-Aug-96	503600	436800
TA 0336 / 16	NMR 12900 / 50	02-Aug-96	503900	436600
TA 0336 / 17	NMR 12900 / 51	02-Aug-96	503900	436800
TA 0336 / 18	NMR 17604 / 28	16-Jul-01	503900	436800
TA 0336 / 2	NMR 1147 / 61-62	09-Aug-77	503300	436200
TA 0336 / 20	NMR 17604 / 30	16-Jul-01	503900	436800
TA 0336 / 21	NMR 17593 / 29	16-Jul-01	503800	436800

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0336 / 22	NMR 17593 / 30	16-Jul-01	503800	436800
TA 0336 / 23	NMR 28192 / 01	12-Jul-11	503500	436600
TA 0336 / 24	NMR 28192 / 02	12-Jul-11	503500	436600
TA 0336 / 25	NMR 28192 / 03	12-Jul-11	503600	436800
TA 0336 / 26	NMR 28192 / 04	12-Jul-11	503600	436800
TA 0336 / 27	NMR 28192 / 05	12-Jul-11	503300	436500
TA 0336 / 28	NMR 28192 / 06	12-Jul-11	503300	436500
TA 0336 / 29	NMR 28192 / 07	12-Jul-11	503300	436700
TA 0336 / 30	NMR 28192 / 08	12-Jul-11	503300	436700
TA 0336 / 31	NMR 28192 / 09	12-Jul-11	503400	436700
TA 0336 / 32	NMR 28192 / 10	12-Jul-11	503400	436600
TA 0336 / 4	JAP 1443 / 35	31-Jul-75	503900	436800
TA 0336 / 5	HCC 14724 / 08	20-Jul-92	503800	436800
TA 0336 / 6	HCC 14724 / 09	20-Jul-92	503900	436700
TA 0336 / 7	NMR 1147 / 075	09-Aug-77	503900	436800
TA 0336 / 8	NMR 1147 / 076	09-Aug-77	503800	436700
TA 0336 / 9	NMR 1147 / 077	09-Aug-77	503700	436500
TA 0347 / 2	NMR 886 / 142-143	01-Aug-75	503900	447600
TA 0347 / 3	NMR 886 / 144-147	01-Aug-75	503800	447600
TA 0434 / 1	NMR 771 / 308-313	02-Aug-74	504600	434700
TA 0434 / 2	NMR 817 / 134-135	07-May-75	504000	434900
TA 0434 / 3	NMR 1972 / 073	21-Jul-81	504000	434500
TA 0434 / 4	NMR 17604 / 39	16-Jul-01	504000	434900
TA 0434 / 5	NMR 28432 / 42	15-Jul-13	504200	434800
TA 0434 / 6	NMR 28432 / 43	15-Jul-13	504100	434800
TA 0434 / 7	NMR 28432 / 44	15-Jul-13	504100	434900
TA 0434 / 8	NMR 28432 / 45	15-Jul-13	504200	434800
TA 0434 / 9	NMR 28432 / 46	15-Jul-13	504200	434800
TA 0435 / 1	NMR 771 / 314-318	02-Aug-74	504600	435600
TA 0435 / 10	NMR 28191 / 39	12-Jul-11	504000	435000
TA 0435 / 11	NMR 28192 / 13	12-Jul-11	504400	435600
TA 0435 / 12	NMR 28192 / 14	12-Jul-11	504400	435600
TA 0435 / 13	NMR 28192 / 15	12-Jul-11	504400	435600
TA 0435 / 14	NMR 28166 / 27	20-Jun-11	504400	435700
TA 0435 / 15	NMR 28166 / 28	20-Jun-11	504400	435600
TA 0435 / 16	NMR 28166 / 29	20-Jun-11	504500	435700
TA 0435 / 17	NMR 28166 / 30	20-Jun-11	504400	435600
TA 0435 / 18	NMR 28166 / 31	20-Jun-11	504400	435500

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0435 / 19	NMR 28224 / 15	19-Oct-11	504900	435300
TA 0435 / 2	NMR 817 / 136-143	07-May-75	504400	435400
TA 0435 / 20	NMR 28224 / 16	19-Oct-11	504900	435300
TA 0435 / 21	NMR 28224 / 17	19-Oct-11	504800	435300
TA 0435 / 22	NMR 28224 / 18	19-Oct-11	504800	435300
TA 0435 / 23	NMR 28224 / 19	19-Oct-11	504800	435300
TA 0435 / 24	NMR 28224 / 20	19-Oct-11	504800	435400
TA 0435 / 25	NMR 28224 / 21	19-Oct-11	504800	435400
TA 0435 / 3	NMR 1147 / 56-57	09-Aug-77	504700	435400
TA 0435 / 4	NMR 1147 / 58-60	09-Aug-77	504700	435500
TA 0435 / 5	NMR 1303 / 45-46	14-Aug-78	504900	435700
TA 0435 / 6	CCC 5141 / M339	1935	504200	435300
TA 0435 / 7	CCC 5141 / M340	1935	504700	435300
TA 0435 / 8	NMR 17604 / 37	16-Jul-01	504000	435000
TA 0435 / 9	NMR 28191 / 38	12-Jul-11	504000	435000
TA 0436 / 1	DNR 357 / 33	24-Jul-71	504000	436500
TA 0436 / 10	NMR 1140 / 78-82	07-Jul-77	504800	436500
TA 0436 / 11	NMR 1147 / 45-47	09-Aug-77	504800	436700
TA 0436 / 12	NMR 1147 / 48-49	09-Aug-77	504800	436700
TA 0436 / 13	JAP 1443 / 34	31-Jul-75	504400	436800
TA 0436 / 14	NMR 1677 / 13-17	15-Aug-79	504900	436500
TA 0436 / 15	NMR 1677 / 18	15-Aug-79	504900	436400
TA 0436 / 18	NMR 12916 / 56	08-Aug-96	504900	436500
TA 0436 / 19	NMR 12916 / 57	08-Aug-96	504900	436500
TA 0436 / 2	DNR 357 / 34	24-Jul-71	504000	436500
TA 0436 / 20	NMR 12899 / 01	08-Aug-96	504900	436400
TA 0436 / 21	NMR 12899 / 02	08-Aug-96	504900	436400
TA 0436 / 22	NMR 17489 / 40	12-Jul-00	504900	436500
TA 0436 / 23	NMR 17489 / 41	12-Jul-00	504900	436500
TA 0436 / 24	NMR 17489 / 42	12-Jul-00	504900	436500
TA 0436 / 25	NMR 17475 / 21	12-Jul-00	504900	436600
TA 0436 / 26	NMR 17475 / 22	12-Jul-00	504900	436600
TA 0436 / 27	NMR 17475 / 23	12-Jul-00	504900	436600
TA 0436 / 28	NMR 17475 / 24	12-Jul-00	504900	436600
TA 0436 / 29	NMR 17475 / 25	12-Jul-00	504900	436600
TA 0436 / 3	DNR 357 / 35	24-Jul-71	504000	436500
TA 0436 / 30	NMR 17475 / 26	12-Jul-00	504900	436600
TA 0436 / 31	NMR 17475 / 27	12-Jul-00	504900	436500

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0436 / 32	NMR 17475 / 28	12-Jul-00	504900	436500
TA 0436 / 33	NMR 28166 / 01	20-Jun-11	504500	436700
TA 0436 / 34	NMR 28166 / 02	20-Jun-11	504600	436800
TA 0436 / 35	NMR 28166 / 03	20-Jun-11	504500	436700
TA 0436 / 36	NMR 28166 / 04	20-Jun-11	504600	436800
TA 0436 / 37	NMR 28166 / 05	20-Jun-11	504600	436700
TA 0436 / 38	NMR 28166 / 06	20-Jun-11	504600	436700
TA 0436 / 39	NMR 28166 / 07	20-Jun-11	504500	436700
TA 0436 / 4	NMR 771 / 339-347	02-Aug-74	504400	436600
TA 0436 / 40	NMR 28166 / 08	20-Jun-11	504500	436800
TA 0436 / 41	NMR 28166 / 09	20-Jun-11	504500	436800
TA 0436 / 42	NMR 28166 / 10	20-Jun-11	504500	436800
TA 0436 / 44	NMR 28166 / 12	20-Jun-11	504400	436800
TA 0436 / 5	JAP 793 / 16	21-Aug-74	504800	436500
TA 0436 / 6	JAP 793 / 17	21-Aug-74	504900	436500
TA 0436 / 7	JAP 793 / 18	21-Aug-74	504900	436500
TA 0436 / 8	JAP 793 / 19	21-Aug-74	504900	436500
TA 0436 / 9	NMR 1140 / 72-74	07-Jul-77	504900	436300
TA 0535 / 1	NMR 28166 / 13	20-Jun-11	505100	435900
TA 0535 / 2	NMR 28166 / 21	20-Jun-11	505100	435600
TA 0535 / 3	NMR 28166 / 22	20-Jun-11	505100	435600
TA 0535 / 4	NMR 28166 / 23	20-Jun-11	505200	435500
TA 0536 / 14	JAP 793 / 21	21-Aug-74	505100	436500
TA 0536 / 15	JAP 793 / 22	21-Aug-74	505000	436500
TA 0536 / 31	NMR 28166 / 14	20-Jun-11	505100	436000
TA 0536 / 32	NMR 28166 / 15	20-Jun-11	505000	436000
TA 0536 / 33	NMR 28166 / 16	20-Jun-11	505000	436000
TA 0536 / 34	NMR 28166 / 17	20-Jun-11	505100	436200
TA 0536 / 35	NMR 28166 / 18	20-Jun-11	505100	436200
TA 0536 / 36	NMR 28166 / 19	20-Jun-11	505000	436400
TA 0536 / 37	NMR 28166 / 20	20-Jun-11	505000	436400
TA 0536 / 8	NMR 771 / 348-352	02-Aug-74	505000	436600
TA 0549 / 1	NMR 817 / 314-315	07-May-75	505200	449800
TA 0551 / 10	NMR 12729 / 10	01-Aug-95	505700	451100
TA 0551 / 11	NMR 12729 / 11	01-Aug-95	505700	451100
TA 0551 / 12	NMR 17197 / 19	26-Oct-98	505800	451800
TA 0551 / 13	NMR 17197 / 20	26-Oct-98	505800	451800
TA 0551 / 2	NMR 817 / 215-219	07-May-75	505600	451100

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0551 / 3	NMR 886 / 114-116	01-Aug-75	505900	451100
TA 0551 / 4	NMR 886 / 117-118	01-Aug-75	505700	451100
TA 0551 / 5	NMR 1147 / 203-205	09-Aug-77	505900	451600
TA 0551 / 6	NMR 12734 / 22	01-Aug-95	505800	451100
TA 0551 / 7	NMR 12734 / 23	01-Aug-95	505800	451100
TA 0551 / 8	NMR 12734 / 24	01-Aug-95	505900	451100
TA 0551 / 9	NMR 12734 / 25	01-Aug-95	505900	451100
TA 0651 / 1	JAP 786 / 3A	19-Aug-74	506200	451900
TA 0651 / 10	NMR 12734 / 27	01-Aug-95	506100	451400
TA 0651 / 11	NMR 12729 / 08	01-Aug-95	506200	451800
TA 0651 / 12	NMR 12729 / 09	01-Aug-95	506200	451800
TA 0651 / 15	NMR 17197 / 21	26-Oct-98	506400	451700
TA 0651 / 16	NMR 17197 / 22	26-Oct-98	506400	451700
TA 0651 / 18	NMR 17183 / 18	26-Oct-98	506300	451700
TA 0651 / 19	NMR 17183 / 19	26-Oct-98	506400	451700
TA 0651 / 2	JAP 787 / 7	20-Aug-74	506500	451800
TA 0651 / 22	NMR 17183 / 22	26-Oct-98	506000	451800
TA 0651 / 23	NMR 17183 / 23	26-Oct-98	506000	451800
TA 0651 / 24	NMR 17183 / 24	26-Oct-98	506400	451700
TA 0651 / 25	NMR 17183 / 25	26-Oct-98	506400	451700
TA 0651 / 30	NMR 17368 / 35	30-Jul-99	506200	451600
TA 0651 / 31	NMR 17368 / 36	30-Jul-99	506200	451600
TA 0651 / 32	NMR 17361 / 26	30-Jul-99	506100	451500
TA 0651 / 33	NMR 17361 / 27	30-Jul-99	506100	451500
TA 0651 / 34	NMR 17361 / 28	30-Jul-99	506200	451700
TA 0651 / 35	NMR 17361 / 29	30-Jul-99	506200	451700
TA 0651 / 7	NMR 12734 / 20	01-Aug-95	506200	451800
TA 0651 / 8	NMR 12734 / 21	01-Aug-95	506200	451800
TA 0651 / 9	NMR 12734 / 26	01-Aug-95	506100	451400
TA 0652 / 1	JAP 786 / 4A	19-Aug-74	506500	452000
TA 0652 / 14	NMR 12729 / 16	01-Aug-95	506600	452000
TA 0652 / 15	NMR 12729 / 17	01-Aug-95	506600	452000
TA 0652 / 16	NMR 17368 / 31	30-Jul-99	506300	452000
TA 0652 / 17	NMR 17368 / 32	30-Jul-99	506300	452000
TA 0652 / 18	NMR 17361 / 25	30-Jul-99	506300	452000
TA 0652 / 2	JAP 786 / 5A	19-Aug-74	506600	452000
TA 0652 / 3	JAP 786 / 6A	19-Aug-74	506600	452100
TA 0652 / 4	JAP 793 / 30	21-Aug-74	506600	452000

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 0652 / 5	JAP 793 / 31	21-Aug-74	506600	452000
TA 0652 / 6	JAP 793 / 32	21-Aug-74	506600	452000
TA 0652 / 8	NMR 1140 / 93-94	07-Jul-77	506100	452000
TA 0652 / 9	NMR 1140 / 95-99	07-Jul-77	506500	452400
TA 0653 / 2	NMR 17368 / 43	30-Jul-99	506800	453900
TA 0653 / 3	NMR 17368 / 44	30-Jul-99	506800	453900
TA 0653 / 4	NMR 17361 / 34	30-Jul-99	506800	453900
TA 0653 / 5	NMR 17361 / 35	30-Jul-99	506800	453900
TA 0754 / 1	NMR 10956 / 17-18	07-May-75	507200	454600
TA 0754 / 2	NMR 2129 / 423	19-Aug-82	507400	454700
TA 0754 / 3	NMR 2129 / 425	19-Aug-82	507500	454600
TA 0754 / 4	NMR 2129 / 428	19-Aug-82	507500	454500
TA 0754 / 5	NMR 2129 / 424	19-Aug-82	507400	454700
TA 0754 / 6	NMR 2129 / 426	19-Aug-82	507500	454600
TA 0754 / 7	NMR 2129 / 427	19-Aug-82	507500	454600
TA 0754 / 8	NMR 2129 / 429	19-Aug-82	507500	454500
TA 0755 / 1	JAP 786 / 7A	19-Aug-74	507700	455000
TA 0755 / 2	JAP 1439 / 13	28-Jul-75	507700	455000
TA 0755 / 3	JAP 1439 / 14	28-Jul-75	507700	455000
TA 0755 / 4	JAP 1439 / 15	28-Jul-75	507700	455000
TA 0755 / 5	JAP 1439 / 16	28-Jul-75	507700	455000
TA 0755 / 6	JAP 1439 / 17	28-Jul-75	507700	455000
TA 0755 / 7	JAP 1439 / 19	28-Jul-75	507700	455000
TA 0955 / 1	NMR 12578 / 51	05-Aug-94	509200	455800
TA 0955 / 2	NMR 12578 / 52	05-Aug-94	509200	455800
TA 0955 / 3	NMR 12578 / 53	05-Aug-94	509200	455800
TA 0955 / 4	NMR 12578 / 54	05-Aug-94	509200	455800
TA 0955 / 5	NMR 12579 / 05	05-Aug-94	509200	455700
TA 0955 / 6	NMR 12579 / 06	05-Aug-94	509200	455700
TA 0955 / 7	NMR 12579 / 07	05-Aug-94	509200	455700
TA 0956 / 10	NMR 28079 / 27	21-Jul-10	509600	456300
TA 0956 / 12	NMR 28079 / 29	21-Jul-10	509700	456200
TA 1056 / 1	NMR 12896 / 34	05-Aug-96	510900	456400
TA 1056 / 2	NMR 12896 / 35	05-Aug-96	510900	456400
TA 1056 / 3	NMR 12903 / 36	05-Aug-96	510800	456400
TA 1056 / 4	NMR 12903 / 37	05-Aug-96	510800	456400
TA 1156 / 1	NMR 17197 / 51	26-Oct-98	511200	456700
TA 1156 / 2	NMR 17197 / 52	26-Oct-98	511200	456700

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 1256 / 1	NMR 10472 / 64	11-Aug-71	512900	456500
TA 1458 / 12	AFL 61614 / EAW013952	23-Mar-48	514500	458400
TA 1560 / 1	NMR 222 / 198-200	18-Jul-70	515700	460800
TA 1560 / 10	NMR 12903 / 17	05-Aug-96	515500	460900
TA 1560 / 16	NMR 28202 / 66	14-Jul-11	515400	460000
TA 1560 / 17	NMR 28202 / 67	14-Jul-11	515400	460100
TA 1560 / 18	NMR 28202 / 68	14-Jul-11	515400	460100
TA 1560 / 2	NMR 12445 / 22	27-Jul-94	515400	460900
TA 1560 / 3	NMR 12445 / 23	27-Jul-94	515400	460900
TA 1560 / 4	NMR 12445 / 24	27-Jul-94	515400	460900
TA 1560 / 5	NMR 12445 / 25	27-Jul-94	515400	460900
TA 1560 / 6	NMR 12554 / 08	Unknown	515400	460900
TA 1560 / 7	NMR 12554 / 09	Unknown	515400	460900
TA 1560 / 8	NMR 12896 / 14	05-Aug-96	515400	460900
TA 1560 / 9	NMR 12903 / 16	05-Aug-96	515400	460900
TA 1561 / 4	NMR 222 / 212-213	18-Jul-70	515700	461200
TA 1561 / 5	NMR 12896 / 15	05-Aug-96	515400	461000
TA 1561 / 6	NMR 12896 / 16	05-Aug-96	515600	461200
TA 1561 / 7	NMR 12896 / 17	05-Aug-96	515600	461200
TA 1561 / 8	NMR 12903 / 18	05-Aug-96	515600	461100
TA 1561 / 9	NMR 12903 / 19	05-Aug-96	515600	461100
TA 1660 / 1	NMR 222 / 208	18-Jul-70	516900	460800
TA 1660 / 11	NMR 20813 / 68	31-Jul-08	516900	460600
TA 1660 / 12	NMR 20813 / 69	31-Jul-08	516900	460900
TA 1660 / 15	NMR 28507 / 03	07-Mar-14	516900	460200
TA 1660 / 16	NMR 28507 / 04	07-Mar-14	516800	460200
TA 1660 / 2	NMR 222 / 209-211	18-Jul-70	516900	460800
TA 1660 / 3	NMR 772 / 152-154	02-Aug-74	516900	460300
TA 1661 / 1	NMR 222 / 201-202	18-Jul-70	516900	461300
TA 1661 / 10	NMR 12896 / 22	05-Aug-96	516600	461500
TA 1661 / 11	NMR 12896 / 23	05-Aug-96	516600	461500
TA 1661 / 12	NMR 12896 / 24	05-Aug-96	516800	461000
TA 1661 / 13	NMR 12896 / 25	05-Aug-96	516800	461000
TA 1661 / 14	NMR 12896 / 26	05-Aug-96	516800	461000
TA 1661 / 15	NMR 12896 / 27	05-Aug-96	516800	461000
TA 1661 / 16	NMR 12903 / 20	05-Aug-96	516000	461300
TA 1661 / 17	NMR 12903 / 21	05-Aug-96	516000	461300
TA 1661 / 18	NMR 12903 / 22	05-Aug-96	516100	461300

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 1661 / 19	NMR 12903 / 23	05-Aug-96	516100	461300
TA 1661 / 2	NMR 222 / 203	18-Jul-70	516900	461300
TA 1661 / 20	NMR 12903 / 24	05-Aug-96	516600	461600
TA 1661 / 21	NMR 12903 / 25	05-Aug-96	516600	461600
TA 1661 / 22	NMR 12903 / 26	05-Aug-96	516800	461000
TA 1661 / 23	NMR 12903 / 27	05-Aug-96	516800	461000
TA 1661 / 24	NMR 12903 / 28	05-Aug-96	516800	461000
TA 1661 / 25	NMR 12903 / 29	05-Aug-96	516800	461000
TA 1661 / 3	NMR 222 / 204	18-Jul-70	516900	461300
TA 1661 / 33	NMR 20813 / 74	31-Jul-08	516900	461500
TA 1661 / 34	NMR 20813 / 75	31-Jul-08	516900	461600
TA 1661 / 35	NMR 28078 / 31	21-Jul-10	516700	461200
TA 1661 / 36	NMR 28078 / 32	21-Jul-10	516700	461200
TA 1661 / 37	NMR 28078 / 33	21-Jul-10	516700	461200
TA 1661 / 38	NMR 28078 / 34	21-Jul-10	516700	461200
TA 1661 / 39	NMR 28078 / 35	21-Jul-10	516700	461200
TA 1661 / 4	NMR 222 / 205-207	18-Jul-70	516900	461300
TA 1661 / 40	NMR 28078 / 36	21-Jul-10	516700	461200
TA 1661 / 41	NMR 28078 / 37	21-Jul-10	516700	461100
TA 1661 / 42	NMR 28078 / 38	21-Jul-10	516700	461100
TA 1661 / 43	NMR 28507 / 05	07-Mar-14	516900	461300
TA 1661 / 44	NMR 28507 / 06	07-Mar-14	516900	461300
TA 1661 / 45	NMR 28507 / 07	07-Mar-14	516800	461300
TA 1661 / 46	NMR 28507 / 08	07-Mar-14	516900	461700
TA 1661 / 5	NMR 772 / 155-162	02-Aug-74	516600	461600
TA 1661 / 6	NMR 12896 / 18	05-Aug-96	516100	461300
TA 1661 / 7	NMR 12896 / 19	05-Aug-96	516100	461300
TA 1661 / 8	NMR 12896 / 20	05-Aug-96	516100	461300
TA 1661 / 9	NMR 12896 / 21	05-Aug-96	516100	461300
TA 1662 / 4	NMR 28507 / 09	07-Mar-14	516900	462000
TA 1760 / 1	NMR 886 / 80-84	01-Aug-75	517000	460400
TA 1760 / 2	NMR 886 / 85-86	01-Aug-75	517000	460600
TA 1761 / 1	NMR 2148 / 0427	28-Jul-83	517200	461300
TA 1761 / 2	NMR 2148 / 0428	28-Jul-83	517200	461300
TA 1761 / 3	NMR 2148 / 0429	28-Jul-83	517200	461300
TA 1761 / 5	NMR 20813 / 65	31-Jul-08	517000	461100
TA 1761 / 6	NMR 20813 / 70	31-Jul-08	517000	461100
TA 1761 / 7	NMR 20813 / 71	31-Jul-08	517000	461200

Photo Reference	Film and Frame Number	Date	Easting	Northing
TA 1761 / 8	NMR 20813 / 72	31-Jul-08	517000	461200
TA 1761 / 9	NMR 20813 / 73	31-Jul-08	517000	461400
TA 1762 / 10	NMR 20813 / 82	31-Jul-08	517000	462900
TA 1762 / 11	NMR 28507 / 10	07-Mar-14	517000	462700
TA 1762 / 12	NMR 28507 / 11	07-Mar-14	517000	462700
TA 1762 / 13	NMR 28507 / 12	07-Mar-14	517000	462700
TA 1762 / 14	NMR 28507 / 13	07-Mar-14	517000	462700
TA 1762 / 15	NMR 28507 / 14	07-Mar-14	517000	462800
TA 1762 / 16	NMR 28507 / 15	07-Mar-14	517000	462900
TA 1762 / 17	NMR 28507 / 16	07-Mar-14	517000	462900
TA 1762 / 2	NMR 20813 / 66	31-Jul-08	517100	462200
TA 1762 / 3	NMR 20813 / 67	31-Jul-08	517100	462300
TA 1762 / 4	NMR 20813 / 76	31-Jul-08	517000	462000
TA 1762 / 5	NMR 20813 / 77	31-Jul-08	517000	462000
TA 1762 / 6	NMR 20813 / 78	31-Jul-08	517000	462700
TA 1762 / 7	NMR 20813 / 79	31-Jul-08	517000	462700
TA 1762 / 8	NMR 20813 / 80	31-Jul-08	517000	462800
TA 1762 / 9	NMR 20813 / 81	31-Jul-08	517000	462800

Table A 3: Military Obliques.

Photo Reference	Film and Frame Number	Date	Easting	Northing
MSO 31050	/ PO-02074 TA 0039 / 2	20 JUL 1941	500200	439600
MSO 31050	/ PO-02075 TA 0039 / 3	20 JUL 1941	500200	439500
MSO 31050	/ PO-02076 TA 0039 / 4	20 JUL 1941	500300	439500
MSO 31050	/ PO-02077 TA 0039 / 5	20 JUL 1941	500400	439500
MSO 31050	/ PO-02078 TA 0039 / 6	20 JUL 1941	500400	439600
MSO 31050	/ PO-02079 TA 0039 / 7	20 JUL 1941	500500	439600
MSO 31050	/ PO-02080 TA 0039 / 8	20 JUL 1941	500500	439700
MSO 31050	/ PO-02081 TA 0039 / 9	20 JUL 1941	500600	439700
MSO 31050	/ PO-02082 TA 0039 / 10	20 JUL 1941	500700	439700
MSO 31133	/ PO-06053 TA 1760 / 3	29 JUL 1940	517000	460600
MSO 31133	/ PO-06054 TA 1761 / 4	29 JUL 1940	517000	461200
MSO 31133	/ PO-06055 TA 1661 / 26	29 JUL 1940	516900	461800
MSO 31133	/ PO-06056 TA 1762 / 1	29 JUL 1940	517000	462400
MSO 31149	/ PO-03255 TA 1660 / 4	10 APR 1941	516900	460200
MSO 31149	/ PO-03256 TA 1660 / 5	10 APR 1941	516800	460500
MSO 31149	/ PO-03257 TA 1660 / 6	10 APR 1941	516900	460900
MSO 31149	/ PO-03258 TA 1661 / 27	10 APR 1941	516900	461300
MSO 31149	/ PO-03259 TA 1661 / 28	10 APR 1941	516900	461800
MSO 31149	/ PO-03260 TA 1662 / 1	10 APR 1941	516800	462100
MSO 31149	/ PO-03261 TA 1662 / 2	10 APR 1941	516900	462500
MSO 31281	/ SO-4062 TA 1661 / 30	13 FEB 1942	516900	461600
MSO 31281	/ SO-4063 TA 1661 / 31	13 FEB 1942	516900	461300
MSO 31281	/ SO-4064 TA 1661 / 32	13 FEB 1942	516800	461100
MSO 31281	/ SO-4065 TA 1660 / 7	13 FEB 1942	516800	460800
MSO 31281	/ SO-4066 TA 1660 / 8	13 FEB 1942	516800	460500
MSO 31281	/ SO-4067 TA 1660 / 9	13 FEB 1942	516800	460300
MSO 31281	/ SO-4060 TA 1662 / 3	13 FEB 1942	516900	462000
MSO 31281	/ SO-4061 TA 1661 / 29	13 FEB 1942	516900	461900
MSO 31281	/ SO-4068 TA 1660 / 10	13 FEB 1942	516800	460100
RAF 30373	/ PO-0015 TA 0956 / 6	22 JAN 1969	509300	456000
RAF 30373	/ PO-0016 TA 0955 / 8	22 JAN 1969	509400	455600

Appendix B CUCAP Coversearch

Table B 1: CUCAP Coversearch

ID	Type	Date	Eastings	Northings
AQG62	Oblique	03/12/1966	500500	442500
AQG63	Oblique	03/12/1966	500500	442500
AQG64	Oblique	03/12/1966	500500	442500
AQG70	Oblique	03/12/1966	501500	445300
AQG71	Oblique	03/12/1966	501500	445300
AQG72	Oblique	03/12/1966	501500	445300
AQG73	Oblique	03/12/1966	501800	445100
ARB72	Oblique	02/05/1967	507000	451500
ARB73	Oblique	02/05/1967	507000	451500
ARB74	Oblique	02/05/1967	507000	451500
ARB75	Oblique	02/05/1967	507000	451500
ARB76	Oblique	02/05/1967	507000	451500
ARB77	Oblique	02/05/1967	507000	451500
BAF88	Oblique	03/01/1970	500500	442500
BAF89	Oblique	03/01/1970	500500	442500
BAF90	Oblique	03/01/1970	500500	442500
BAH15	Oblique	03/01/1970	507000	451500
BAH16	Oblique	03/01/1970	507000	451500
BAH17	Oblique	03/01/1970	507000	451500
BAH18	Oblique	03/01/1970	507000	451500
BAH19	Oblique	03/01/1970	507000	451500
BBQ95	Oblique	04/06/1970	507000	451500
BBQ96	Oblique	04/06/1970	507000	451500
BBQ97	Oblique	04/06/1970	507000	451500
BBR1	Oblique	04/06/1970	507000	451500
BBR2	Oblique	04/06/1970	507000	451500
BBR3	Oblique	04/06/1970	507000	451500
BBR4	Oblique	04/06/1970	507000	451500
BBR5	Oblique	04/06/1970	507000	451500
BBR6	Oblique	04/06/1970	507800	452600
BBR7	Oblique	04/06/1970	507700	453500
BBR8	Oblique	04/06/1970	507700	453500
BQU48	Oblique	24/07/1974	516700	461200
BQU49	Oblique	24/07/1974	516700	461200
BQU50	Oblique	24/07/1974	516700	461200
BQU51	Oblique	24/07/1974	516700	461000
BQU66	Oblique	24/07/1974	506100	449100
BQU67	Oblique	24/07/1974	506100	449100
BQU68	Oblique	24/07/1974	506100	449100
BS34	Oblique	22/07/1948	500500	442500

ID	Type	Date	Eastings	Northings
BS35	Oblique	22/07/1948	500500	442500
BVR65	Oblique	11/08/1975	507800	452600
BWC24	Oblique	09/09/1975	515700	458900
BWC30	Oblique	09/09/1975	507800	452600
CFS81	Oblique	09/05/1978	501500	445400
CFS82	Oblique	09/05/1978	501500	445400
CFS83	Oblique	09/05/1978	501500	445400
CFS84	Oblique	09/05/1978	501500	445400
CFS88	Oblique	09/05/1978	501500	445400
CFT1	Oblique	09/05/1978	500600	442600
CFT2	Oblique	09/05/1978	500600	442600
CFT3	Oblique	09/05/1978	500600	442600
CFT4	Oblique	09/05/1978	500600	442600
CFT5	Oblique	09/05/1978	501700	436000
CFT6	Oblique	09/05/1978	501700	436000
CFT7	Oblique	09/05/1978	501700	436000
JZ58	Oblique	15/07/1952	500500	442500
JZ59	Oblique	15/07/1952	500500	442500
JZ60	Oblique	15/07/1952	500500	442500
RC8GM021	Vertical	30/04/1984	503313	434489
RC8GM022	Vertical	30/04/1984	504232	434464
RC8GM023	Vertical	30/04/1984	505062	434445
RC8HC026	Vertical	01/08/1984	516950	460733
RC8HC027	Vertical	01/08/1984	516950	461602
RC8HC123	Vertical	01/08/1984	515254	457421
RC8HC124	Vertical	01/08/1984	515216	458101
RC8HC125	Vertical	01/08/1984	515192	458909
RC8LK229	Vertical	03/07/1989	507542	453011
RC8LK230	Vertical	03/07/1989	507760	452209
RC8LK236	Vertical	03/07/1989	508722	454022
RC8LK237	Vertical	03/07/1989	508897	455008
RW61	Oblique	27/03/1956	500400	442500
RW62	Oblique	27/03/1956	500400	442500
RW63	Oblique	27/03/1956	500400	442500
RW64	Oblique	27/03/1956	500400	442500
RW65	Oblique	27/03/1956	500400	442500
RW66	Oblique	27/03/1956	500400	442500
RW67	Oblique	27/03/1956	500400	442500
ZknLX15	Vertical	05/07/2001	501356	440987
ZknLX16	Vertical	05/07/2001	500960	440966
ZknOO136	Vertical	13/06/2003	505015	434913
ZknOO137	Vertical	13/06/2003	504374	434909
ZknOO138	Vertical	13/06/2003	503729	434916

ID	Type	Date	Eastings	Northings
ZknOO139	Vertical	13/06/2003	503085	434922

Appendix C Humber Historic Environment Record Aerial Photograph Coversearch

Table C 1: HHER Aerial Photograph Coversearch data.

AP Reference	Parish	Source	Date	Easting	Northing
AWF 92	Barmston	CUC	05.11.968	515500	461500
AWF92	Barmston	CUC	05.11.1968	515500	461500
BWC 24	Barmston	CUC	09.09.1975	515600	458800
CBR 10	Barmston	CUC	09.12.1976	515500	461500
CBR 10	Barmston	CUC	09.12.1976	515500	461500
CBR 11	Barmston	CUC	09.12.1976	516900	462600
CBR 11	Barmston	CUC	09.12.1976	516900	462600
CBR 12	Barmston	CUC	09.12.1976	517000	462800
CBR 13	Barmston	CUC	09.12.1976	517000	463000
CBR 14	Barmston	CUC	09.12.1976	517000	463200
CBR 8	Barmston	CUC	09.12.1976	515400	461400
CBR 8	Barmston	CUC	09.12.1976	515400	461400
CBR 9	Barmston	CUC	09.12.1976		
CBR 9	Barmston	CUC	09.12.1976	515600	461500
TA 1560/1	Barmston	NMR	19.07.1970	515700	460800
TA 1563/1	Barmston	NMR	02.08.1974		
TA 1658/2 /141	Barmston	NMR	02.08.1974	517100	458800
TA 1660/3	Barmston	NMR	02.08.1974	516900	460300
TA 1661/1	Barmston	NMR	18.07.1970	516900	461000
TA 1661/3	Barmston	NMR	18.07.1970	516800	461100
TA 1661/5	Barmston	NMR	02.08.1974	517000	461300
TA1560/1	Barmston	NMR (RCHM)	18.07.70	515700	460800
TA1660/3	Barmston	NMR (RCHM)	02.08.1974	516900	460300
TA1661/1	Barmston	NMR (RCHM)	18.07.70	516900	461000
TA1661/3	Barmston	NMR (RCHM)	18.07.70	516800	461100
CIT 65	Beswick	CU	13.05.1979	503800	448000
CIT 66	Beswick	CU	13.05.1979	503200	448600
HAP /91 /30 /9	Beswick	HCC (E Dennison)	10.01.1992	501200	447800
HAP 89/8/2	Beverley	HCC (J Dent)	21.02.1989	501900	439100
HAP 89/8/3	Beverley	HCC (J Dent)	21.02.1989	501900	439100
HAP 91/28/13	Beverley	HCC (E.Dennison)	10.01.1992	501400	439200
HAP 91/28/14	Beverley	HCC (E.Dennison)	10.01.1992	502000	439300
HAP 91/28/15	Beverley	HCC (E.Dennison)	10.01.1992	502100	439100
CFT 2	Cherry Burton	CU	09.05.1978	500700	442500
CFT 4	Cherry Burton	CU	09.05.1978	500600	442600

SE 9943/2	Cherry Burton	NMR (RCHM)	28.07.1975	499000	443300
TA0042/1-188	Cherry Burton	NMR	29.04.1970	500400	442500
TA0042/3-282	Cherry Burton	NMR	19.07.1970	500500	442500
HAP 89/16/11	Foston	HCC (J Dent)	17.03.1989	507300	454900
HAP 91/21/4	Foston	HCC (E.Dennison)	29.07.1991	507500	454900
HAP 91/21/5	Foston	HCC (E.Dennison)	29.07.1991	507400	455000
HAP 91/21/6	Foston	HCC (E.Dennison)	29.07.1991	507500	454800
HAP 91/21/7	Foston	HCC (E.Dennison)	29.07.1991	507500	455300
/	Haltemprice	Clare Dines	May-02	503600	427600
/	Haltemprice	Clare Dines	May-02	503600	427600
5 4	Haltemprice	D Brooks	1970'S	502300	427300
6A/8	Haltemprice	D Brooks	1970'S	505300	434800
6A/9	Haltemprice	D Brooks	1970'S	505300	434800
CUAD 1/A	Haltemprice	A J Crawshaw	?	504100	430100
LX 18	Haltemprice	A J Crawshaw	18.12.1985	502100	427800
LX 19	Haltemprice	A J Crawshaw	18.12.1985	502400	428000
RAF/58/2162	Haltemprice	RAF	07.06.1957	503900	431000
RAF/58/B7/30	Haltemprice	RAF	13.05.1948	504300	430900
TA 0431/1-478	Haltemprice	NMR	05.08.1976	504200	431000
TA 0431/1-479	Haltemprice	NMR	05.08.1976	504200	431000
HAP 88/2/10	Hutton Cranswick	John Dent	27.07.1988	506830	451330
HAP 89 /16 /15	Hutton Cranswick	HCC (J Dent)	17.03.1989	506200	451900
HAP 89 /21 /9/10	Hutton Cranswick	HCC (E Dennison)	29.06.1989	506200	451700
NMR TA 0652/9/97	Hutton Cranswick	NMR	07.07.1977	506700	452200
TA 0551 /3 114	Hutton Cranswick	NMR	01.08.1975	505840	451300
TA 0651 /4 113	Hutton Cranswick	NMR	01.08.1975	506700	451300
TA 0652 /11 191	Hutton Cranswick	NMR	09.08.1977	506600	452030
TA 0652 /8 93	Hutton Cranswick	NMR	07.07.1977	506100	452100
TA 0652 /9 95	Hutton Cranswick	NMR	07.07.1977	506400	452000
TA 0652 /9 97	Hutton Cranswick	NMR	07.07.1977	506700	452000
TA 0652 /9 99	Hutton Cranswick	NMR	07.07.1977	506900	452700
TA 0720 /1 208	Hutton Cranswick	NMR	07.05.1975	507200	451100
TA 0751 /1 210	Hutton Cranswick	NMR	07.05.1975	507060	451530
/	Leconfield	John Dent	1989	501400	443200
AJC 285/14	Leconfield	A J Crawshaw	21.10.1991	501800	445100
AQG 70	Leconfield	CUC	1966	501500	445300
AQG 71	Leconfield	CUC	1966	501900	445400
AQG 72	Leconfield	CUC	1966	501500	445300
DNR 1605/13 (NMR TA 0243/2)	Leconfield	D Riley	30.07.1981	501700	444000

DNR 1608/31	Leconfield	D Riley	27.08.1982	501900	444900
DNR 1608/33	Leconfield	D Riley	27.08.1983	501900	444900
DNR 1608/34 (NMR TA 0145/18)	Leconfield	D Riley	27.08.1981	501900	444900
DNR 1608/36	Leconfield	D Riley	27.08.1984	501900	444900
DNR 1608/37	Leconfield	D Riley	27.08.1981	501500	445400
DNR 1608/6 (NMR TA 0145/11)	Leconfield	D Riley	27.08.1981	501800	445500
HAP 91/29/15	Leconfield	HCC E Dennison	10.01.1992	501600	445200
HAP 91/30/3	Leconfield	HCC E Dennison	10.01.1992	502300	444400
HAP 91/30/40	Leconfield	HCC E Dennison	10.01.1992	501500	444000
HAP 91/30/5	Leconfield	HCC E Dennison	10.01.1992	501800	444300
TA 0142/1-458	Leconfield	NMR	18.07.1970	501700	442700
TA 0144/4-160	Leconfield	NMR	01.08.1975	501100	444500
TA 0145 /3 465	Leconfield	NMR	18.07.1970	501300	445600
TA 0145/10-177	Leconfield	NMR	09.08.1977	501800	445550
TA 0145/2-464	Leconfield	NMR	18.07.1970	501500	445700
CFS 086	Lockington	CUC	N/A	500100	445300
CFS 087	Lockington	CUC	N/A	500100	445300
HAP 89/17/15	Lockington	HCC (J Dent)	17.03.1989	499800	443900
SE 9945 /1 284	Lockington	NMR	08.06.1978	500240	445150
SE 9945 /1 285	Lockington	RCHM NMR	08.06.1978	499600	445200
TA 0446/2-174	Lockington	NMR	09.08.1977	504500	447050
TA 0447/1-148	Lockington	NMR	01.08.1975	504500	447300
TA 0247 /1	Lockington/Beswick	NMR	07.05.1975	502700	447200
60/20	Rowley		1980's	502200	434800
60/20	Rowley		1980's	502200	434800
6A/12	Rowley	D Brooks	1970's	502000	435700
6A/12	Rowley	D Brooks	1970's	502000	435700
CFT 014	Rowley	CUC	09.05.1978	500800	435000
CFT 015	Rowley	CUC	09.05.1978	500600	435200
CFT 016	Rowley	CUC	09.05.1978	500700	435200
CFT 017	Rowley	CUC	09.05.1978	500500	435100
CFT 6	Rowley	CUC	09.05.1978	501900	436000
CFT 6	Rowley	CVC	09.05.1978	501900	436000
CFT 7	Rowley	CUC	09.05.1978	501800	436100
CFT 7	Rowley	CVC	09.05.1978	501800	436100
HAP 91/16/3	Rowley	HCC E Dennison	16.07.1991	503000	436500
HAP 91/28/1	Rowley	HCC E Dennison	10.01.1992	500900	435000
HAP 91/28/2	Rowley	HCC E Dennison	10.01.1992	500500	434700
HAP 91/28/2	Rowley	HCC E Dennison	10.01.1992	500200	435100

HAP 91/28/3	Rowley	HCC E Dennison	10.01.1992	500600	434900
HAP 91/28/4	Rowley	HCC E Dennison	10.01.1992	500400	435000
HAP 91/28/8	Rowley	HCC E Dennison	10.01.1992	500500	435600
HAP 91/28/9	Rowley	HCC E Dennison	10.01.1992	501700	435900
HAP 91/28/9	Rowley	HCC (E.Dennison)	10.01.1992	501700	435900
HAP /88 /1 /1	Skerne and Wansford	HCC (J Dent)	27.07.1988	506200	454300
HAP /88 /1 /2	Skerne and Wansford	HCC (J Dent)	27.07.1988	506300	454380
HAP /88 /1 /3	Skerne and Wansford	HCC (J Dent)	27.07.1988	506320	454250
HAP /89 /16 /10	Skerne and Wansford	HCC (J Dent)	17.03.1989	507100	454800
HAP /89 /16 /12	Skerne and Wansford	HCC (J Dent)	17.03.1989	507100	454700
HAP /89 /16 /13	Skerne and Wansford	HCC (J Dent)	17.03.1989	507300	454600
HAP /89 /16 /9	Skerne and Wansford	HCC (J Dent)	17.03.1989	506800	454800
HAP /89 /21 /15	Skerne and Wansford	HCC (E Dennison)	29.06.1989	505100	456200
HAP /89 /21 /16	Skerne and Wansford	HCC (E Dennison)	29.06.1989	505100	456200
HAP /89 /21 /17	Skerne and Wansford	HCC (E Dennison)	29.06.1989	505000	456200
TA 0654 /1 226	Skerne and Wansford	NMR	07.05.1975	506500	454200
TA 0654 /1 228	Skerne and Wansford	NMR	07.05.1975	506800	454440
TA 0654 /1 230	Skerne and Wansford	NMR	07.05.1975	506800	454950
3B /1	Skidby	D Brooks	1970s	504000	434900
3B /2	Skidby	D Brooks	1970s	504000	434900
3B /3	Skidby	D Brooks	1970s	504000	434900
5A /10	Skidby	D Brooks	19.07.2003	503900	434900
5A /11	Skidby	D Brooks	19.07.2003	503900	434900
5A /12	Skidby	D Brooks	19.07.2003	503900	434900
5A /13	Skidby	D Brooks	19.07.2003	503900	434900
5A /14	Skidby	D Brooks	19.07.2003	503900	434900
HAP 91/27/12	Walkington	HCC (E.Dennison)	10.01.1992	501500	437000
HAP 91/27/13	Walkington	HCC (E.Dennison)	10.01.1992	501600	437000
HAP 91/27/14	Walkington	HCC (E.Dennison)	10.01.1992	501700	436900
TA0137/1-371	Walkington	NMR	10.08.1977	501450	437350
TA 0450/1-321	Watton	NMR	07.05.1975	550000	405200
3B /4	Woodmansey	D Brooks	1970'S	505300	435700
3B /5	Woodmansey	D Brooks	1970'S	505300	435700
3B /6	Woodmansey	D Brooks	1970'S	505300	435700
5A/15	Woodmansey	D Brooks	1970's	504400	435800
5A/15	Woodmansey	D Brooks	1970'S	504400	435800
DB 6A/1	Woodmansey	D Brooks	?	503600	437400
HAP 89/18/10	Woodmansey	HCC E Dennison	29.06.1989	505200	436800
HAP 89/8/10	Woodmansey	HCC (J Dent)	07.03.1989	504900	435800
HAP 89/8/10	Woodmansey	HCC J Dent	07.03.1989	504900	435800

HAP 89/8/11	Woodmansey	HCC J Dent	07.03.1989	504900	436500
HAP 89/8/12	Woodmansey	HCC J Dent	07.03.1989	504900	436500
HAP 89/8/13	Woodmansey	HCC J Dent	07.03.1989	504900	436500
HAP 89/8/14	Woodmansey	HCC J Dent	07.03.1989	505200	436000
HAP 89/8/15	Woodmansey	HCC J Dent	07.03.1989	504900	436500
HAP 89/8/9	Woodmansey	HCC (J Dent)	07.03.1989	504900	435700
HAP 89/8/9	Woodmansey	HCC J Dent	07.03.1989	504900	435700
HAP 89/9/5	Woodmansey	HCC J Dent	07.03.1989	504800	436500
HAP 89/9/6	Woodmansey	HCC J Dent	07.03.1989	504800	436500
HAP 89/9/7	Woodmansey	HCC J Dent	07.03.1989	504800	436500
HAP 89/9/8	Woodmansey	HCC J Dent	07.03.1989	504800	436500
HAP 89/9/9	Woodmansey	HCC J Dent	07.03.1989	504800	436500
HAP 91/15/10	Woodmansey	HCC E Dennison	16.07.1991	504100	437100
HAP 91/15/11	Woodmansey	HCC E Dennison	16.07.1991	503900	436800
HAP 91/15/12	Woodmansey	HCC E Dennison	16.07.1991	504500	436800
HAP 91/15/13	Woodmansey	HCC E Dennison	16.07.1991	504100	436800
HAP 91/15/14	Woodmansey	HCC E Dennison	16.07.1991	504100	436800
HAP 91/15/15	Woodmansey	HCC E Dennison	16.07.1991	503800	436800
HAP 91/15/4	Woodmansey	HCC E Dennison	16.07.1991	505000	436000
HAP 91/15/5/5	Woodmansey	HCC E Dennison	16.07.1991	505200	436200
HAP 91/15/5/6	Woodmansey	HCC E Dennison	16.07.1991	505000	436300
HAP 91/15/5/7	Woodmansey	HCC E Dennison	16.07.1991	505200	436100
HAP 91/15/8	Woodmansey	HCC E Dennison	16.07.1991	504300	437000
HAP 91/15/9	Woodmansey	HCC E Dennison	16.07.1991	504300	437000
HAP 91/16/1	Woodmansey	HCC E Dennison	16.07.1991		
HAP 91/16/2	Woodmansey	HCC E Dennison	16.07.1991		
HAP 91/28/10	Woodmansey	HCC E Dennison	10.01.1992	502600	438300
HAP 91/28/11	Woodmansey	HCC E Dennison	10.01.1992	502700	438300
HAP 91/28/12	Woodmansey	HCC E Dennison	10.01.1992	502800	438300
HAP 92/10/10	Woodmansey	HCC E Dennison	20.07.1995	504000	436900
HAP 92/10/11	Woodmansey	HCC E Dennison	20.07.1996	504000	436900
HAP 92/10/12	Woodmansey	HCC E Dennison	20.07.1997	504000	436900
HAP 92/10/13	Woodmansey	HCC E Dennison	20.07.1992	505200	435900
HAP 92/10/8	Woodmansey	HCC E Dennison	20.07.1993	504000	436900
HAP 92/10/9	Woodmansey	HCC E Dennison	20.07.1994	504000	436900
TA 0426/9-72	Woodmansey	NMR	07.07.1977	504800	436300
TA 0435/3-56	Woodmansey	NMR	09.08.1977	504450	435750
TA 0536/6-328	Woodmansey	NMR	02.08.1974	505200	435800
TA 0536/6-329	Woodmansey	NMR	02.08.1974	505330	435650
TA0435/3-56	Woodmansey	NMR	09.08.1977	504450	435150

Appendix D EA Lidar Metadata

Table D 1: EA Lidar Metadata.

Tile Name	Date Flown (Start)	Date Flown (End)	Resolution (m)
TA1662	06/11/2017	06/11/2017	1
TA1658	06/11/2017	06/11/2017	1
TA1662	25/05/2017	25/05/2017	1
TA1658	25/05/2017	25/05/2017	1
TA1662	14/12/2016	14/12/2016	1
TA1658	14/12/2016	14/12/2016	1
TA1662	13/03/2016	13/03/2016	1
TA1658	13/03/2016	13/03/2016	1
TA1662	29/09/2015	29/09/2015	1
TA1658	29/09/2015	29/09/2015	1
TA1662	20/04/2015	20/04/2015	1
TA1658	20/04/2015	20/04/2015	1
TA1662	06/11/2014	06/11/2014	1
TA1658	06/11/2014	06/11/2014	1
TA1662	15/05/2014	16/05/2014	1
TA1658	15/05/2014	16/05/2014	1
TA1662	14/12/2013	17/12/2013	1
TA1658	14/12/2013	17/12/2013	1
TA1662	17/10/2013	17/10/2013	1
TA1658	17/10/2013	17/10/2013	1
TA1662	26/04/2013	26/04/2013	1
TA1658	26/04/2013	26/04/2013	1
TA1662	18/09/2012	18/09/2012	1
TA1658	18/09/2012	18/09/2012	1
TA1662	08/03/2012	11/03/2012	1
TA1658	08/03/2012	11/03/2012	1
TA1662	07/10/2010	07/10/2010	1
TA1658	07/10/2010	07/10/2010	1
TA1662	28/04/2010	28/04/2010	1
TA1658	28/04/2010	28/04/2010	1
TA1662	20/09/2009	20/09/2009	1
TA1658	20/09/2009	20/09/2009	1
TA1662	25/04/2009	29/04/2009	1
TA1462	25/04/2009	29/04/2009	1
TA1662	25/04/2009	25/04/2009	1
TA1658	25/04/2009	25/04/2009	1
TA1662	15/09/2008	15/09/2008	1

Tile Name	Date Flown (Start)	Date Flown (End)	Resolution (m)
TA1658	15/09/2008	15/09/2008	1
TA0336	22/01/2008	07/02/2008	0.5
TA0236	22/12/2005	22/12/2005	1
TA0234	22/12/2005	22/12/2005	1
TA0434	22/12/2005	22/12/2005	1
TA0040	22/12/2005	22/12/2005	1
TA0042	22/12/2005	22/12/2005	1
TA0145	07/02/2008	07/02/2008	0.5
TA0146	07/02/2008	07/02/2008	0.5
TA0045	07/02/2008	07/02/2008	0.5
TA0046	07/02/2008	07/02/2008	0.5
TA0334	22/01/2008	07/02/2008	0.5
TA0335	22/01/2008	07/02/2008	0.5
TA0234	22/01/2008	07/02/2008	0.5
TA0235	22/01/2008	07/02/2008	0.5
TA1460	15/09/2008	15/09/2008	1
TA1660	15/09/2008	15/09/2008	1
TA0434	22/01/2008	07/02/2008	0.5
TA0435	22/01/2008	07/02/2008	0.5
TA1258	25/04/2009	29/04/2009	1
TA1456	25/04/2009	29/04/2009	1
TA1660	25/04/2009	25/04/2009	1
TA1256	25/04/2009	29/04/2009	1
TA1660	25/04/2009	29/04/2009	1
TA1660	20/09/2009	20/09/2009	1
TA1458	25/04/2009	29/04/2009	1
TA1460	25/04/2009	29/04/2009	1
TA1660	08/03/2012	11/03/2012	1
TA1460	18/09/2012	18/09/2012	1
TA1660	28/04/2010	28/04/2010	1
TA1660	07/10/2010	07/10/2010	1
TA1660	17/10/2013	17/10/2013	1
TA1460	14/12/2013	17/12/2013	1
TA1660	18/09/2012	18/09/2012	1
TA1660	26/04/2013	26/04/2013	1
TA0045	15/11/2013	09/04/2014	0.5
TA0046	15/11/2013	09/04/2014	0.5
TA1660	14/12/2013	17/12/2013	1
TA1660	15/05/2014	16/05/2014	1
TA0147	15/11/2013	09/04/2014	0.5
TA0246	15/11/2013	09/04/2014	0.5

Tile Name	Date Flown (Start)	Date Flown (End)	Resolution (m)
TA0145	15/11/2013	09/04/2014	0.5
TA0146	15/11/2013	09/04/2014	0.5
TA0348	15/11/2013	09/04/2014	0.5
TA0448	15/11/2013	09/04/2014	0.5
TA0247	15/11/2013	09/04/2014	0.5
TA0347	15/11/2013	09/04/2014	0.5
TA0550	15/11/2013	09/04/2014	0.5
TA0551	15/11/2013	09/04/2014	0.5
TA0449	15/11/2013	09/04/2014	0.5
TA0549	15/11/2013	09/04/2014	0.5
TA0652	15/11/2013	09/04/2014	0.5
TA0653	15/11/2013	09/04/2014	0.5
TA0650	15/11/2013	09/04/2014	0.5
TA0651	15/11/2013	09/04/2014	0.5
TA0754	15/11/2013	09/04/2014	0.5
TA0755	15/11/2013	09/04/2014	0.5
TA0654	15/11/2013	09/04/2014	0.5
TA0753	15/11/2013	09/04/2014	0.5
TA0955	15/11/2013	09/04/2014	0.5
TA0956	15/11/2013	09/04/2014	0.5
TA0854	15/11/2013	09/04/2014	0.5
TA0855	15/11/2013	09/04/2014	0.5
TA1356	15/11/2013	09/04/2014	0.5
TA1660	06/11/2014	06/11/2014	1
TA1056	15/11/2013	09/04/2014	0.5
TA1256	15/11/2013	09/04/2014	0.5
TA1660	13/03/2016	13/03/2016	1
TA0044	29/11/2016	29/11/2016	0.5
TA1660	20/04/2015	20/04/2015	1
TA1660	29/09/2015	29/09/2015	1
TA0145	29/11/2016	29/11/2016	0.5
TA0146	29/11/2016	29/11/2016	0.5
TA0045	29/11/2016	29/11/2016	0.5
TA0046	29/11/2016	29/11/2016	0.5
TA1660	25/05/2017	25/05/2017	1
TA1660	06/11/2017	06/11/2017	1
TA1460	14/12/2016	14/12/2016	1
TA1660	14/12/2016	14/12/2016	1
TA0652	05/04/2018	05/04/2018	1
TA0654	05/04/2018	05/04/2018	1
TA0450	05/04/2018	05/04/2018	1

Tile Name	Date Flown (Start)	Date Flown (End)	Resolution (m)
TA0448	05/04/2018	05/04/2018	1
TA0856	05/04/2018	05/04/2018	1
TA1054	05/04/2018	05/04/2018	1
TA0650	05/04/2018	05/04/2018	1
TA0854	05/04/2018	05/04/2018	1
TA1056	05/04/2018	05/04/2018	1
TA1256	05/04/2018	05/04/2018	1
TA0652nw	21/12/2006	24/12/2006	0.25
TA0652se	21/12/2006	24/12/2006	0.25
TA0234	26/02/2000	26/02/2000	2
TA0434	26/02/2000	26/02/2000	2
TA0348ne	21/12/2005	26/01/2006	0.25
TA0448nw	21/12/2005	26/01/2006	0.25
TA0652ne	21/12/2006	24/12/2006	0.25
TA0653se	21/12/2006	24/12/2006	0.25
TA0550ne	21/12/2005	21/12/2005	0.25
TA0653sw	21/12/2005	24/01/2006	0.25
TA0448ne	21/12/2005	26/01/2006	0.25
TA0550nw	21/12/2005	21/12/2005	0.25
TA0855ne	13/01/2006	19/01/2006	0.25
TA0755sw	23/12/2005	24/01/2006	0.25
TA0955sw	13/01/2006	21/01/2006	0.25
TA0955nw	13/01/2006	21/01/2006	0.25
TA0856se	13/01/2006	13/01/2006	0.25
TA0855ne	13/01/2006	21/01/2006	0.25
TA0757nw	23/12/2005	24/01/2006	0.25
TA0856se	13/01/2006	13/01/2006	0.25
TA0246	19/12/2005	22/12/2005	2
TA0248	19/12/2005	22/12/2005	2
TA0046	19/12/2005	22/12/2005	2
TA0448	19/12/2005	22/12/2005	2
TA0652	19/12/2005	22/12/2005	2
TA0654	19/12/2005	22/12/2005	2
TA0450	19/12/2005	22/12/2005	2
TA0650	19/12/2005	22/12/2005	2
TA1054	19/12/2005	22/12/2005	2
TA1056	19/12/2005	19/12/2005	2
TA0854	19/12/2005	22/12/2005	2
TA0856	19/12/2005	22/12/2005	2
TA0036	22/12/2005	22/12/2005	1
TA0038	22/12/2005	22/12/2005	1

Tile Name	Date Flown (Start)	Date Flown (End)	Resolution (m)
TA1256	19/12/2005	19/12/2005	2
TA0034	22/12/2005	22/12/2005	1