UNPATH'D WATERS

TOWARDS A NATIONAL COLLECTION

UKRI Arts and Humanities Research Council

Aggregating the UK's maritime data in Unpath'd Waters

Julian Richards, Jamie Bradley, Jamie Geddes and Holly Wright, Archaeology Data Service, UK

AHRC and Towards a National Collection

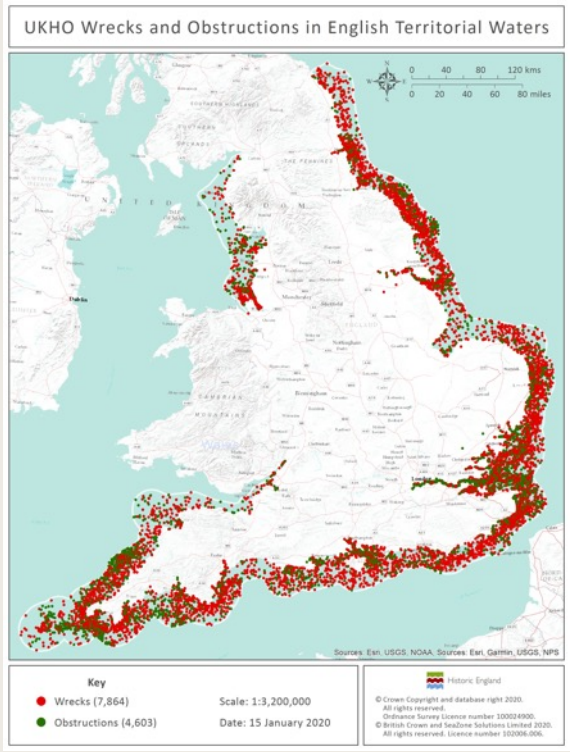
Towards a National Collection (TaNC) is a major investment using digital technology to create a unified national collection of the UK's museums, libraries, galleries and archives to maintain global leadership in digital humanities and arts research.

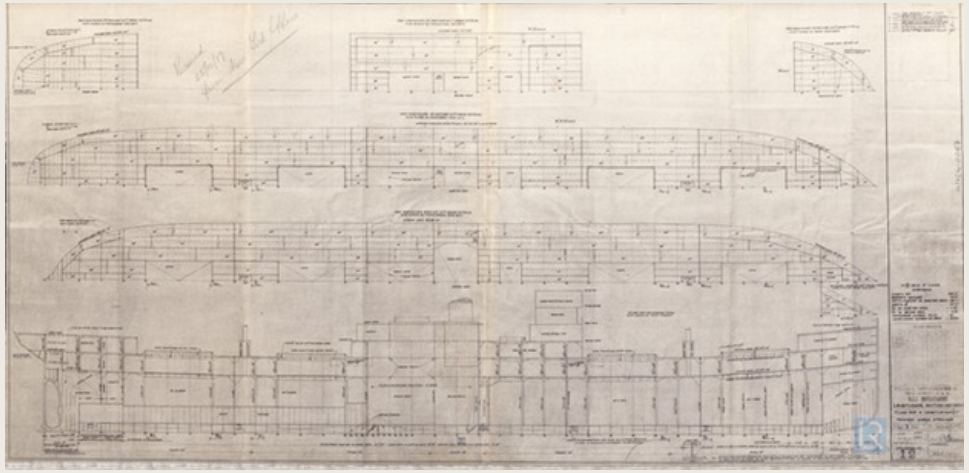
Budget: £18.9 million
Duration: 2020 to 2025

UNPATH – One of five funded projects

Why maritime?

- Of great public interest and central to the UK's 'island/maritime nation' identity.
- Critical management issues – no integrated marine inventory of sites despite accelerating exploitation of the seabed
- Clear research applications
- Data access challenges – analogue vs digital





UNPATH – The Consortium

UNPATH'D WATERS

Co-Investigators:

- 4 IROs
- 9 Universities

Collaborating Organisations

- 4 Trusts
- 1 Royal Commission

Partners

Historic England
ads Archaeology Data Service
University of Bradford – Making Knowledge Work
University of Southampton
MEDIN marine environmental data & information network
University of Portsmouth
Prifysgol Bangor University
MOLA Museum of London Archaeology
National Maritime Museum Greenwich
The Glasgow School of Art
University of St Andrews
Historic Environment Scotland | Àrainneachd Eachdraidheil Alba
Ulster University

Maritime Archaeology Trust
Nautical Archaeology Society
CBHC RCAHMW
the Mary Rose
wessex archaeology

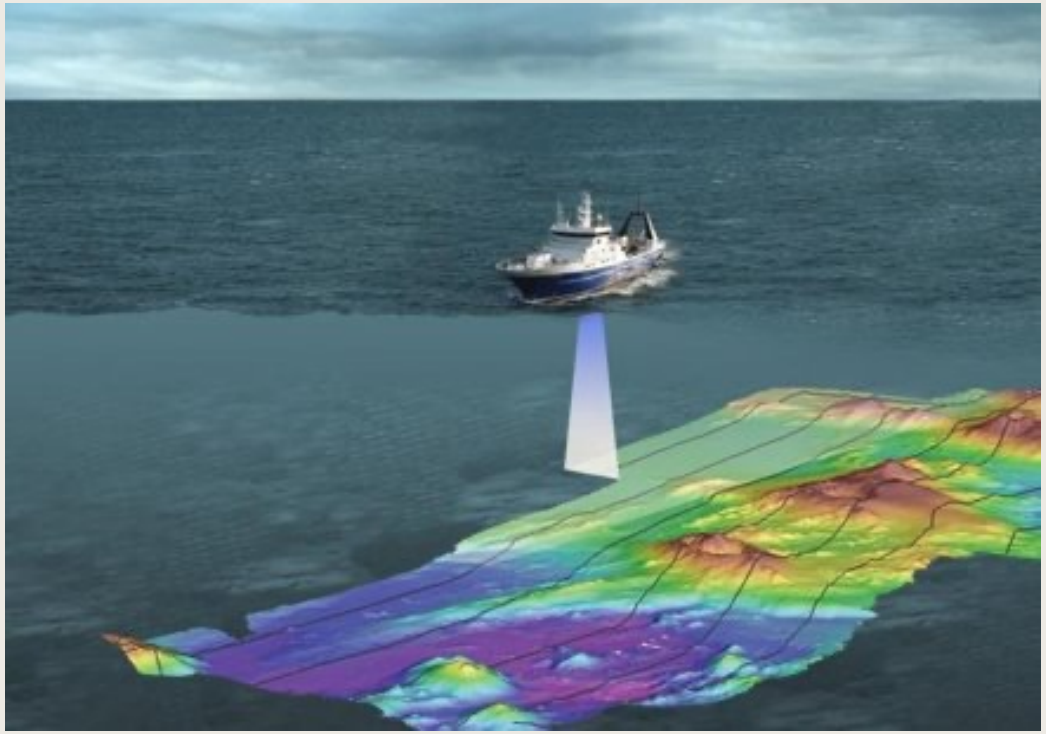
Cadw
Llywodraeth Cymru Welsh Government
Department for Communities www.communities-ni.gov.uk
Manx National Heritage Eiraght Ashoonagh Vannin
Lloyd's Register Foundation
Marine Management Organisation
Protected Wreck Association www.ProtectedWrecks.org.uk

TOWARDS A NATIONAL COLLECTION
UKRI Arts and Humanities Research Council

Unpath'd Waters: Sources

The UK's marine heritage collections, covering 23,000 years of history.

- Collections include archaeological investigations, borehole records, artefacts, sonar surveys, charts, construction records, loss records, images, artworks, and more
- National and local collections
- National inventories
- Grey literature and fieldwork archives
- Citizan Science



Unpath’d Waters: Aims

- Much better heritage inventories for the four home nations
- New ways of linking very different collection types to enhance research
- Genuine audience-led approaches to accessing collections

Unpath’d Waters: Challenges

- Lack of agreed data standards
- Variable data quality and granularity
- Metadata suitability – for different audiences
- Heterogeneous data sources
- Analogue resources and copyright issues
- Dynamic data sources
- Avoidance of creating more silos

WPs 1-2: Aggregation, Characterisation & Discovery

Data audit and data collection

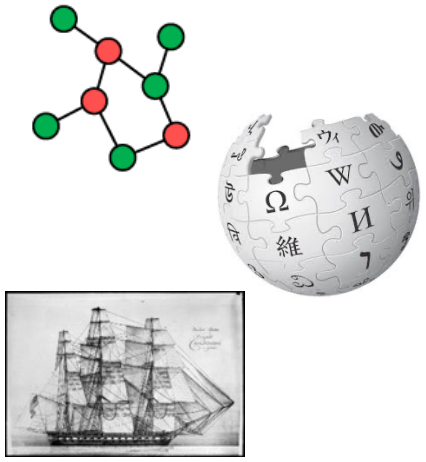
Ontologies, controlled vocabularies, & interoperability

Enhancement and Aggregation

Dissemination

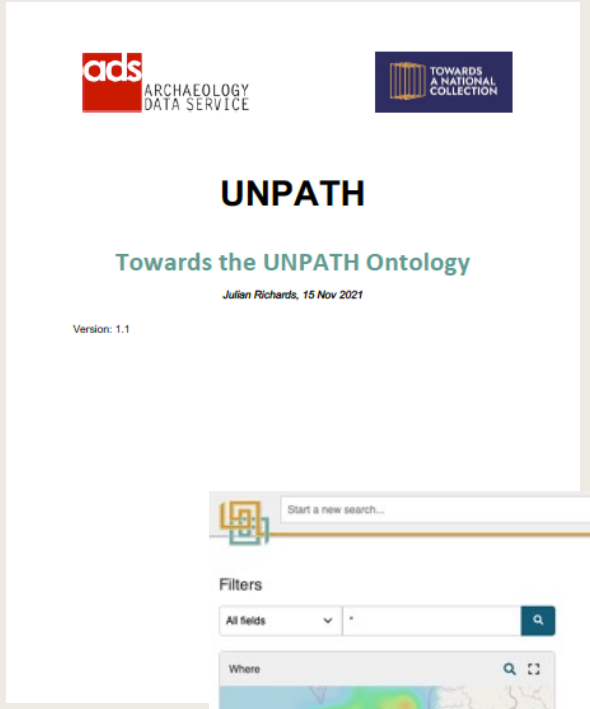
- UO-Cat ontology
  - CIDOC-CRM
- What
  - Getty AAT
- When
  - Perio.Do
- Where
  - WGS84

- NLP / NER etc
- Image recognition

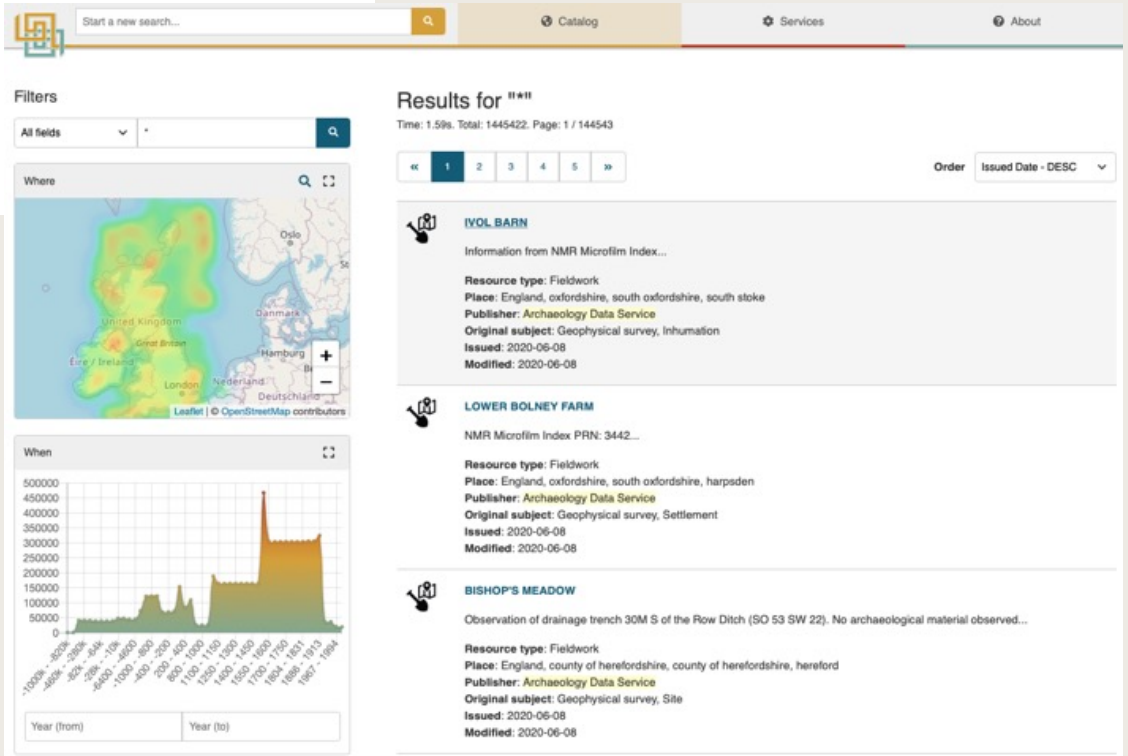


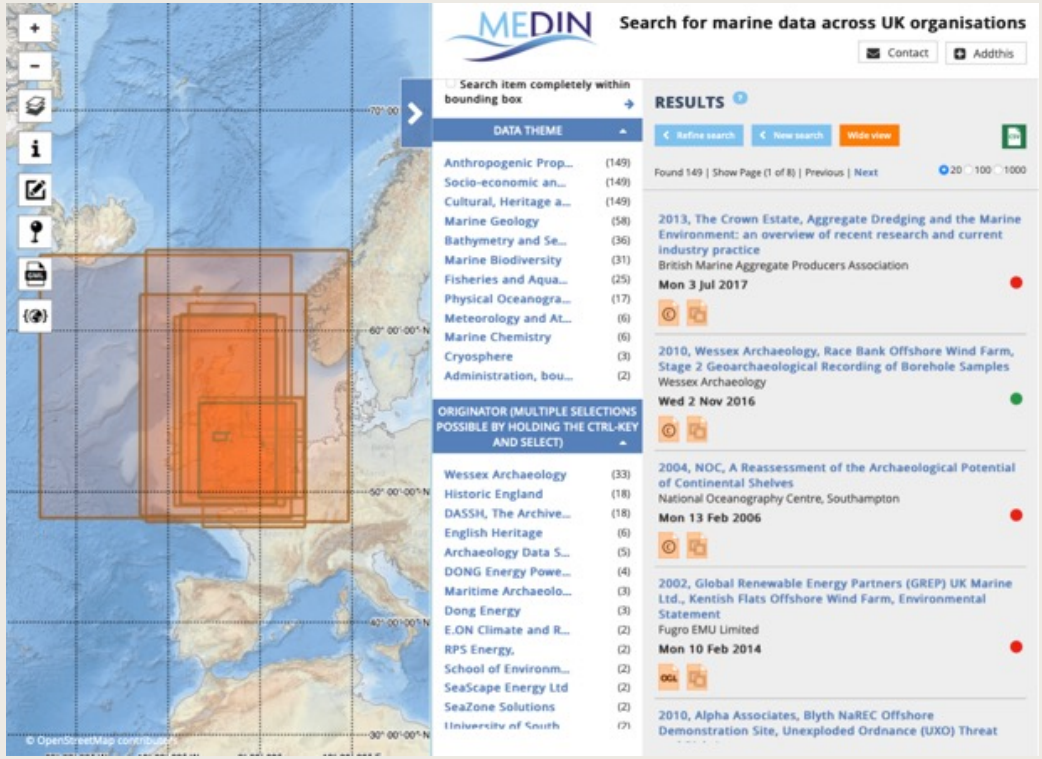
- National portals
  - Canmore
  - Coflein
  - Mariner etc
- UK-wide portals
  - ADS
  - MEDIN
- European portals
  - ARIADNE

Progress so far…

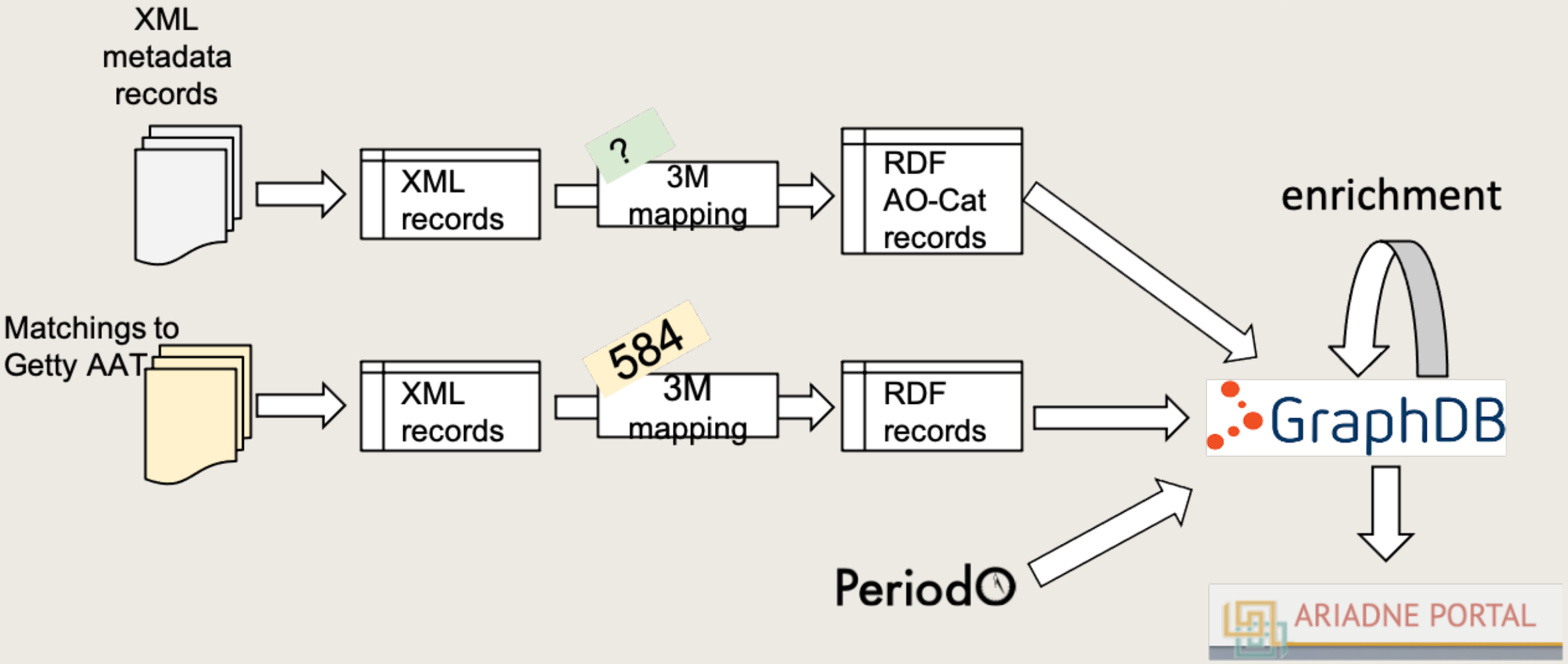


- Data audit completed – 89+ sources identified
- UNPATH ontology agreed
  - Harmonised with ARIADNE ontology / CIDOC-CRM
  - Harmonised with MEDIN metadata schema
- Portal scoping



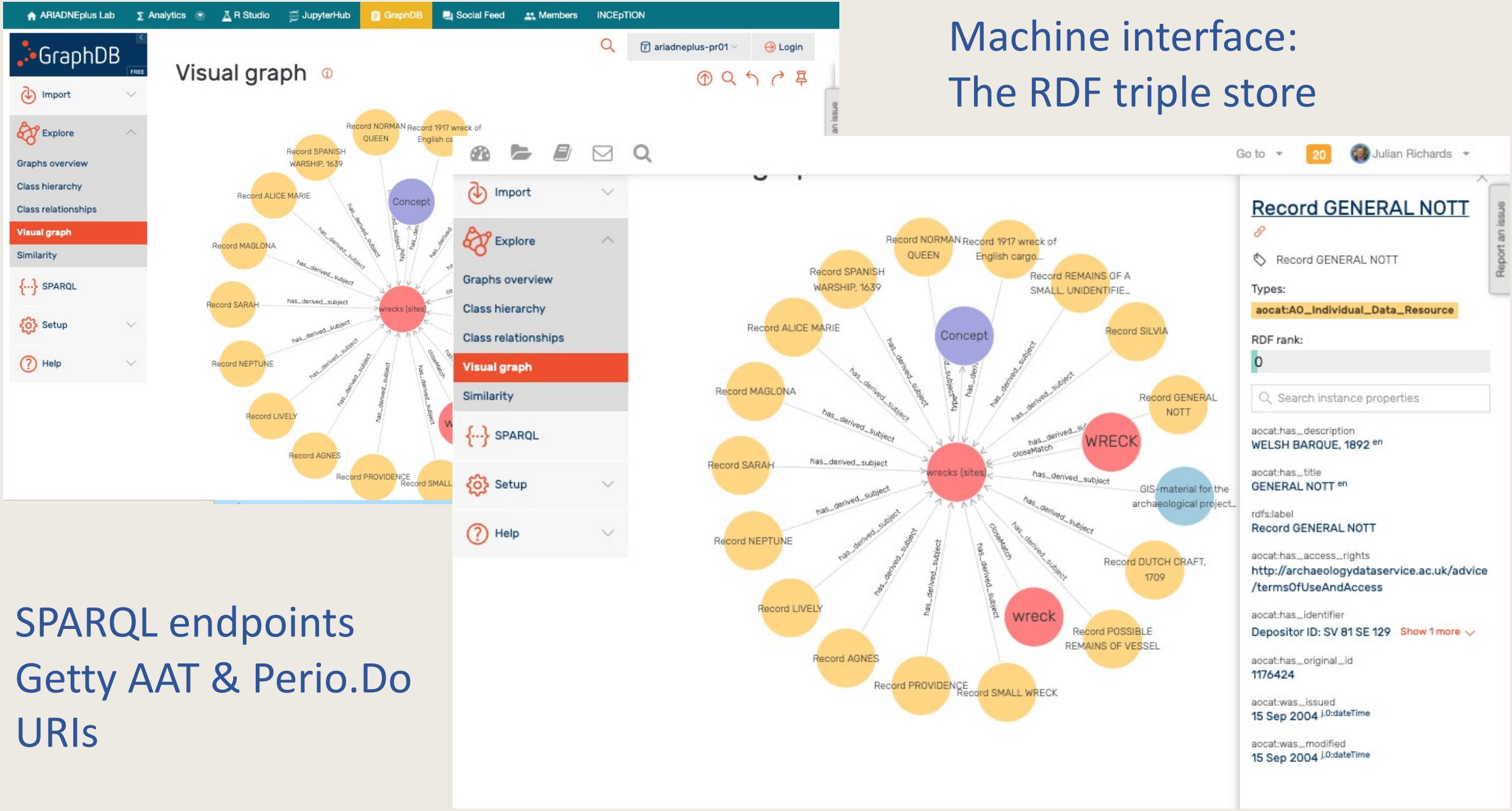


The workflow



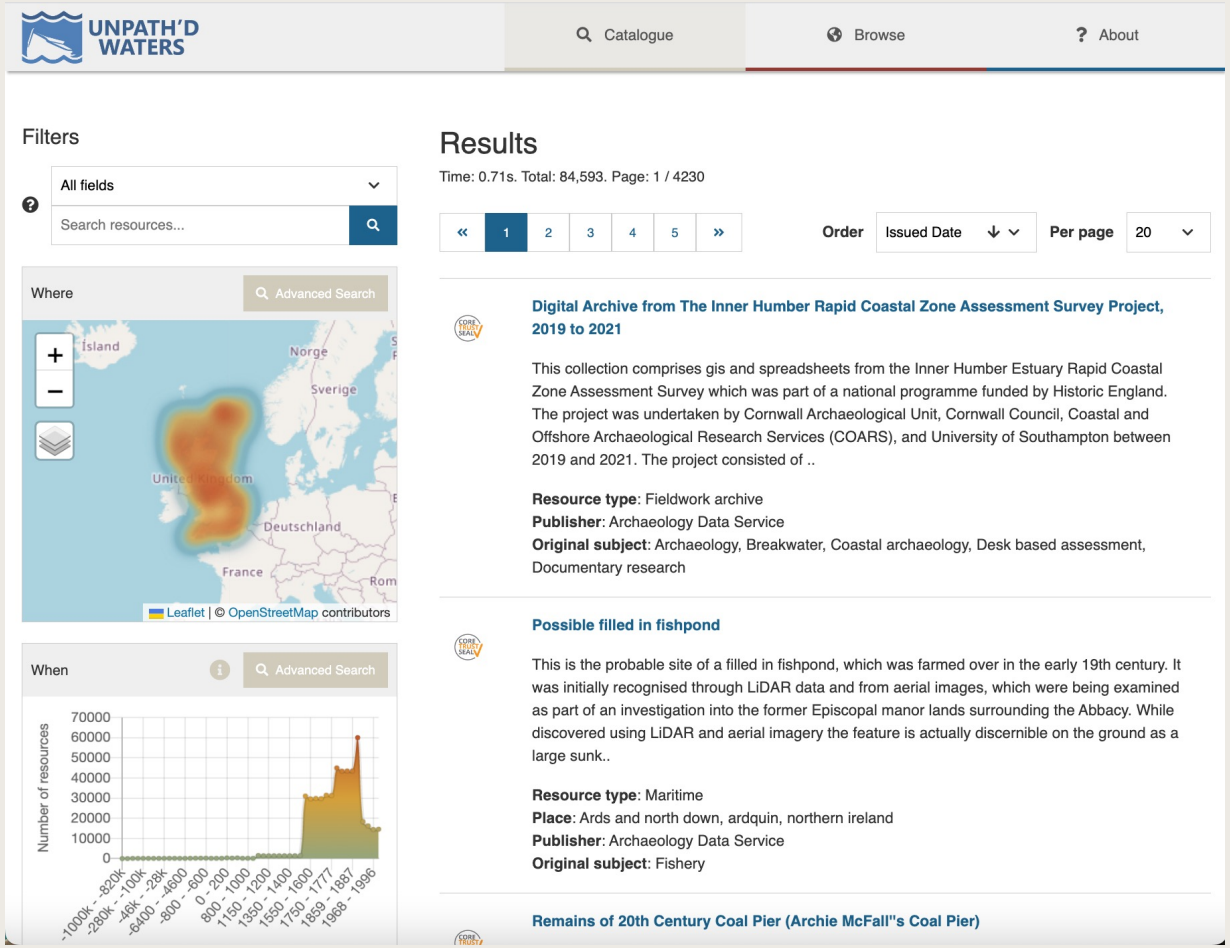
Archaeology Data Service

Machine interface:
The RDF triple store



SPARQL endpoints
Getty AAT & Perio.Do
URIs

- Triple store operational
- Installed a proof of concept instance of the ARIADNE portal badged and hard-wired for UK maritime data for UNPATH – 86k records
- Ingest of national data sets for Scotland, England, NI & IoM; Wales in progress
- Testing interoperability of data
- Perio.Do definitions for Scottish and Irish data sets published
  - NB “Island of Ireland”!!
- Getty AAT thesaurus mapping for maritime craft agreed



UNPATH'D WATERS

All fields | Time period | Place | Title | Getty AAT Subject

Search resources...

Isles of Scilly Designated Wrecks 2 / 11

Side view of sheave wheels showing rims with diver in background from the Isles of Scilly Designated Wrecks project. The project investigated five designated wreck sites situated in the Isles of Scilly: Tearing Ledge, HMS Association, Bartholomew Ledges, HMS Colossus and the Wheel Wreck. https://doi.org/10.5284/1051619 Data copyright © Kevin Camidge

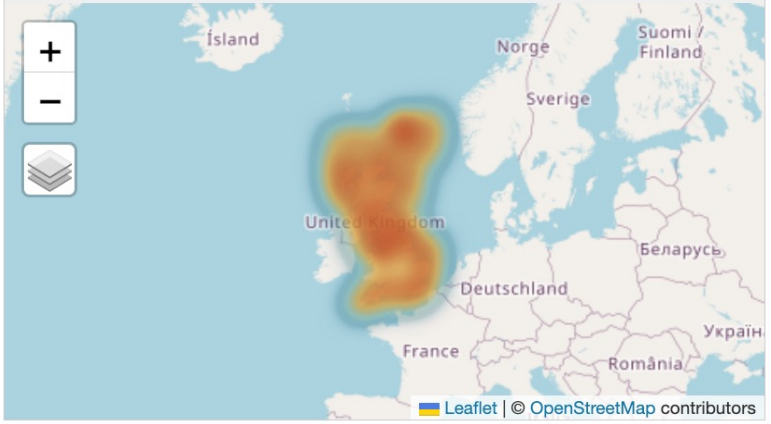
TOWARDS A NATIONAL COLLECTION | UKRI Arts and Humanities Research Council

Unpath'd Waters is funded by the Arts and Humanities Research Council under the Towards a National Collection programme.
The Unpath'd Waters portal reuses e-infrastructure constructed within the EU-funded ARIADNE and ARIADNEplus project.

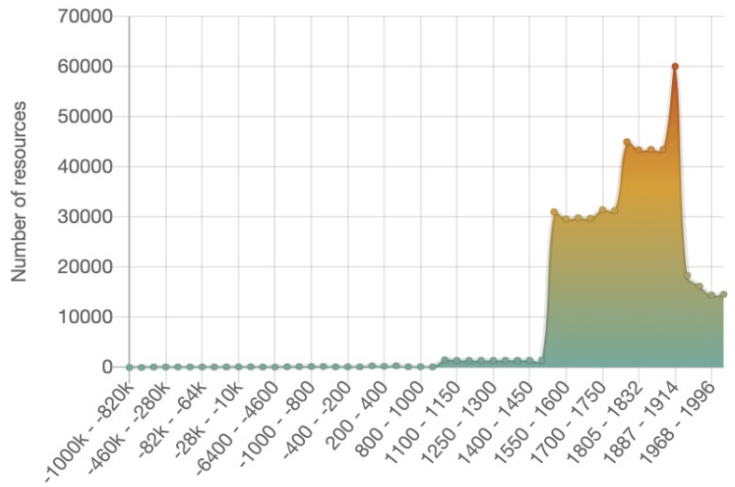
Filters

All fields | Search resources...

Where — Advanced Search



When — Advanced Search



Results

Time: 0.64s. Total: 84,593. Page: 1 / 4230

« 1 2 3 4 5 »

Order: Issued Date | Per page: 20

Digital Archive from The Inner Humber Rapid Coastal Zone Assessment Survey Project, 2019 to 2021

This collection comprises gis and spreadsheets from the Inner Humber Estuary Rapid Coastal Zone Assessment Survey which was part of a national programme funded by Historic England. The project was undertaken by Cornwall Archaeological Unit, Cornwall Council, Coastal and Offshore Archaeological Research Services (COARS), and University of Southampton between 2019 and 2021. The project consisted of ..

Resource type: Fieldwork archive
Publisher: Archaeology Data Service
Original subject: Archaeology, Breakwater, Coastal archaeology, Desk based assessment, Documentary research

Possible filled in fishpond

This is the probable site of a filled in fishpond, which was farmed over in the early 19th century. It was initially recognised through LiDAR data and from aerial images, which were being examined as part of an investigation into the former Episcopal manor lands surrounding the Abbacy. While discovered using LiDAR and aerial imagery the feature is actually discernible on the ground as a large sunk..

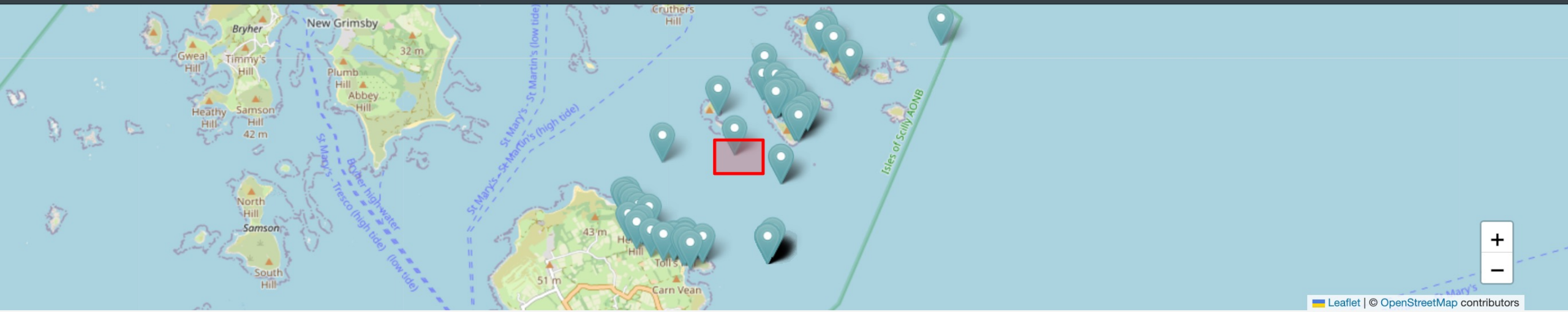
Resource type: Maritime
Place: Ards and north down, ardquin, northern ireland
Publisher: Archaeology Data Service
Original subject: Fishery

Remains of 20th Century Coal Pier (Archie McFall''s Coal Pier)

This site inspection was undertaken at low tide following requests by the Abbeyville Resident''s Association. The surviving remains of this coal pier are an impressive and stark feature on the north coast of Belfast Lough at Whiteabbey. The substantial concrete parts of the far seaward structure, are partially situated in the tide at LWMMT and are located some 150m south east, east from the shore ..

Resource type: Maritime
Place: Mid and east antrim, whiteabbey, northern ireland
Publisher: Archaeology Data Service
Original subject: Pier

TRAVELLING CRANE AND DOCK - GOLIATH



Current resource Nearby resource **(hide)**

Wheel Wreck Investigation 2018

Description

The waters around the Isles of Scilly contain a formidable number of historic shipwrecks, including five protected wreck sites. One of the most intriguing and enigmatic of these is the Wheel Wreck, a collection of corroded iron machinery lying in an orderly pile on the seabed in 16m of water.

In April 2018, CISMAS carried out a six-day survey of the site. The cargo mound was measured, surveyed and enumerated. This has allowed the production of a cargo list, site plan and identification of most of the cargo items lying on the seabed. A limited search around the cargo mound produced a small quantity of pottery and glass which was used to indicate an earlier date for this site.

It has not been possible to identify the vessel which carried this cargo. However, we have estimated the hold size, beam and tonnage of the vessel from the disposition and quantity of the cargo. This, along with the revised date for the site, should help to narrow down the documentary search for the name of the wreck.

Metadata

Original ID: https://doi.org/10.5284/1055091

Resource links

View resource at provider

Json | Xml | Rdf | Cite | Report an issue

Resource is part of

ADS Archives

Thematically similar

Thematically similar resources based on terms in common of:

Subject & Time period

Silver Threepence. Threepence: Elizabeth I, 1561-1582 (N 1998)

Silver Threepence. Threepence: Elizabeth I, 1561-1582 (N 1998)

Wheel Wreck Investigation 2018

Kevin Camidge, 2019. https://doi.org/10.5284/1055091. How to cite using this DOI

Introduction
Overview
Downloads
Metadata
Usage Statistics

Protected Historic Shipwrecks in the Isles of Scilly

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Introduction

The waters around the Isles of Scilly contain a formidable number of historic shipwrecks, including five protected wreck sites. One of the most intriguing and enigmatic of these is the Wheel Wreck, a collection of corroded iron machinery lying in an orderly pile on the seabed in 16m of water.

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Historic England

ads Archaeology Data Service

ADS Main Website | Back to Archives Search | Help

Wheel Wreck Investigation 2018

Kevin Camidge, 2019. https://doi.org/10.5284/1055091. How to cite using this DOI

Introduction
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Protected Historic Shipwrecks in the Isles of Scilly

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Historic England

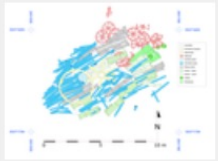
Downloads

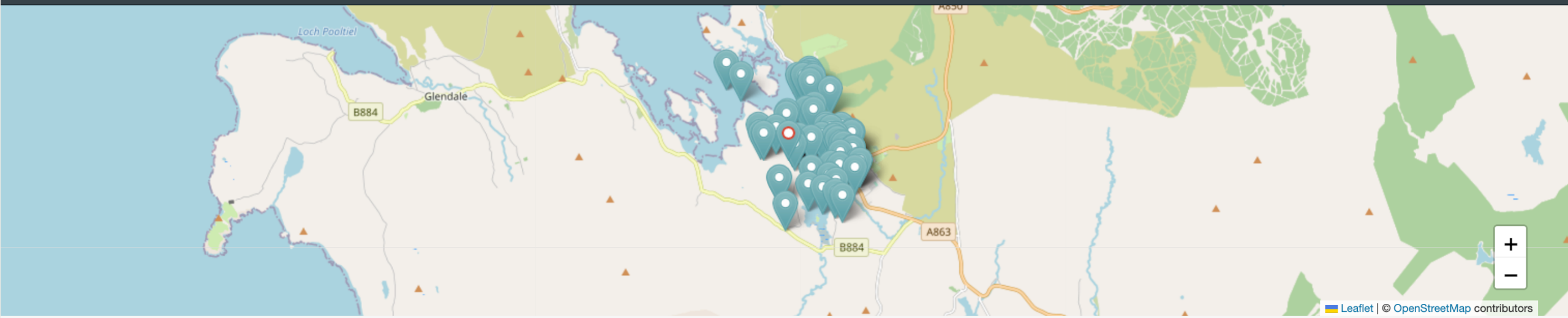
Wheel Wreck Investigation: Plans and Drawings Metadata

back to contents

Wheel Wreck raster metadata plans	CSV	3 Kb

Records 1 - 13 of 13

	Plan of the cargo mound and cylinder fragments. The cargo items are colour coded by type. Grid references are in UTM (Cargo_mound_and_cylinder_plan.png)	PNG	4.28 Mb
	**Plan of the cargo mound. The cargo items are colour coded by type. Grid references are in UTM** (Cargo_mound_plan.png)	PNG	6.13 Mb
	A reconstruction drawing of the large clack valves CL1 to CL6 (Clack_valve_large.png)	PNG	184 Kb



Current resource Nearby resource **(hide)**

HOPE: LOCH DUNVEGAN, SKYE, LITTLE MINCH

Description

SCHOONER, MARITIME

Council: HIGHLAND

Metadata

Original ID: 295615

Landing page: https://canmore.org.uk/site/295615

Language: English

Resource links

View resource at provider

Json Xml Rdf Cite Report an issue

Resource is part of

Historic Environment Scotland (HES) CANMORE database

Thematically similar

Thematically similar resources based on terms in common of:

Subject & Time period

KAREN: LARGO BAY, FIRTH OF FORTH

Hope: Loch Dunvegan, Skye, Little Minch

Details | Collections (1) | Images

Overview
Collections
Administrative Areas
Archaeology Notes
Activities
References
MyCanmore Images
MyCanmore Text

Schooner

Site Name Hope: Loch Dunvegan, Skye, Little Minch

Classification Schooner

Alternative Name(s) Dunvegan, Old Inn; Hope

Canmore ID 295615

Site Number NG24NW 8004

NGR NG 2424 4787

NGR Description NG c. 2424 4787

Datum Datum not recorded

Permalink http://canmore.org.uk/site/295615

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Toggle Aerial | View on large map

Resource type

Enter text to filter on Resource types. Name Hits

Site/monument	84304
Fieldwork report	207
Fieldwork archive	82

Getty AAT Subjects

Enter text to filter on Getty AAT Subjects. Name Hits

Wrecks (sites)	37542
Cargo vessels	18198
Boats	16472
Schooners	3733
Fishing vessels	3435
Fore-and-aft-rigged vessels	2885
Sloops (sailing vessels)	2557
Aircraft	2365
Hazards	2316
Steamships	2311
Brigs (sailing vessels)	2080

largely constructed within the yard. It is the smaller of the two, standing 96m high, with a span of 140m & can lift 840 tonnes. Both cranes run on 800m of track which span Harland & Wolff"s Building Dock and Block Assembly Area. In operation, ..

Resource type: Maritime
Place: Belfast, queen's island, northern ireland
Publisher: Archaeology Data Service
Original subject: Shipyard

ALEXANDRA GRAVING DOCK - C.F. IHR10486-010-00 for details

The Alexandra Graving dock on Queens Island was built between 1885-1889. It is 830ft long & the design reflected the new leaner ships of the C19th. This is an IHR site, given an SMR no. for scheduling purposes - c.f. IHR10486-010-00 for further details. Archaeological monitoring around the dock required the excavation of 5 pits to check the suitability for new moorings for the HMS Caroline. Loca..

Resource type: Maritime
Place: Belfast, queens island, northern ireland
Publisher: Archaeology Data Service
Original subject: Dry dock

THOMPSON GRAVING DOCK - c.f. IHR 10486"B for details

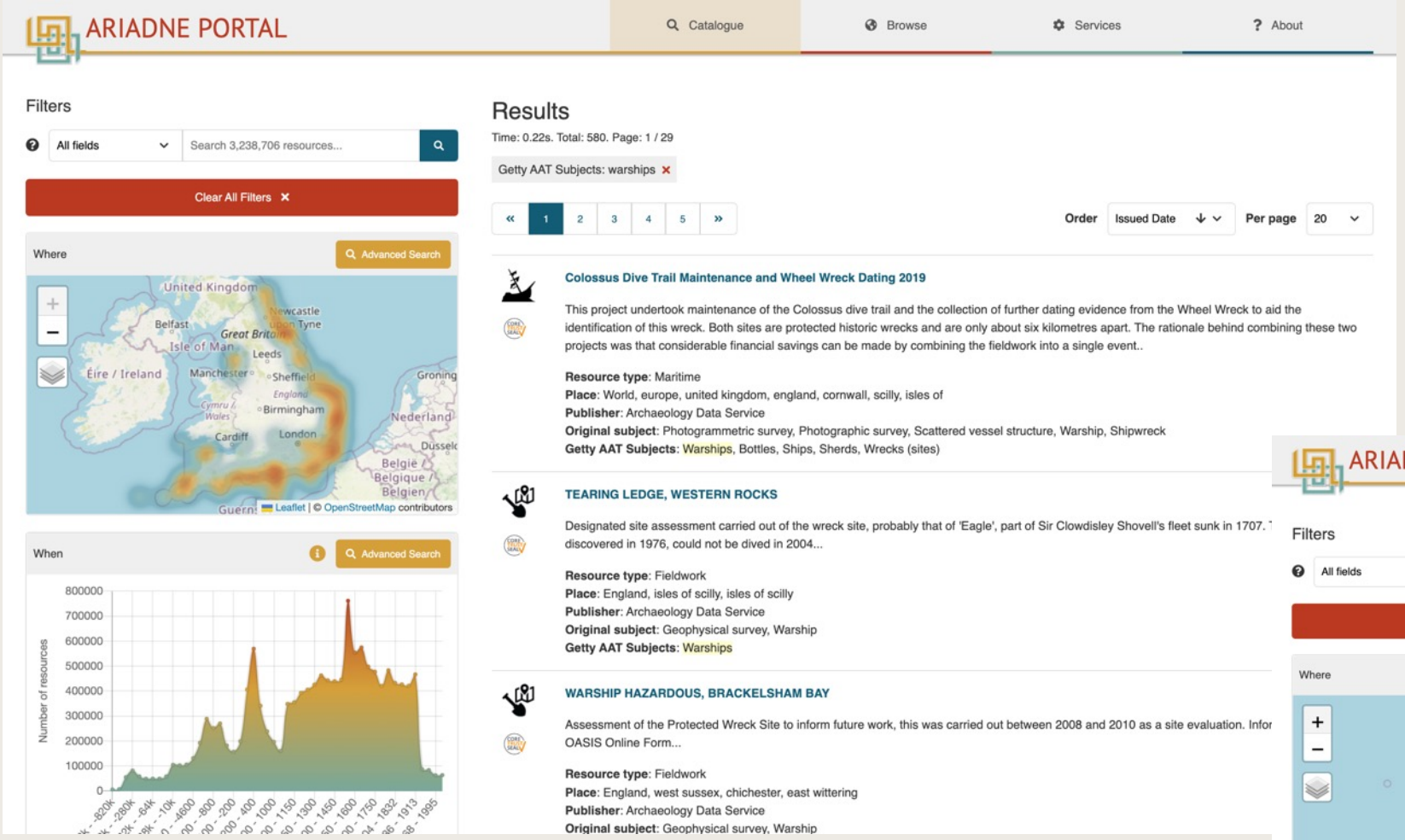
The Thompson graving dock, built 1903-1911 was, at the time of construction, the longest graving dock of its kind in the world. The site is of world significance in terms of ship building history & with the other docks tells the story of the development of the ship-building industry in Belfast. This is an IHR site given an SMRno for scheduling - c.f. IHR 10486"B...

Resource type: Maritime
Place: Belfast, queen's island, northern ireland
Publisher: Archaeology Data Service
Original subject: Dry dock

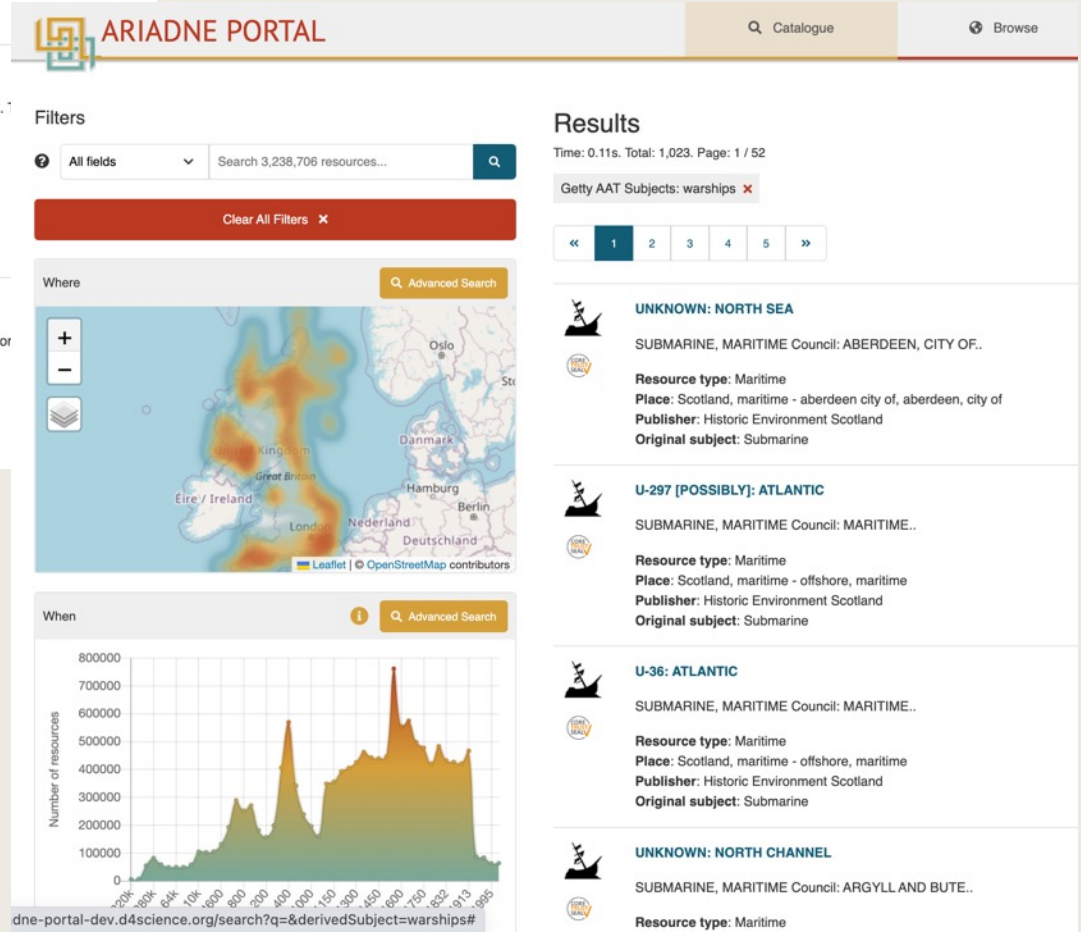
TRAVELLING CRANE & BUILDING DOCK - SAMSON

"Samson" and its building dock is one of a pair of cranes in the Harland & Wolff shipyard, along with "Goliath" [Dow 004:504]. It was erected in 1974 and is the larger of the two, standing 106m high, with a span of 140m & can lift 840 tonnes. Both cranes run on 800m of track which span Harland & Wolff"s Building Dock and Block Assembly Area. In operation, each crane moves at c. 30m per minute..

Resource type: Maritime
Place: Belfast, queen's island, northern ireland
Publisher: Archaeology Data Service
Original subject: Shipyard



Searching on “warships” and narrower terms:
1023 resources



Searching on “warships” only:
580 resources; England only

79,657 resources in the current view

Display as search result

Hide filters

Filters

All fields | Search resources...

Year (from) | Year (to) | Apply

- Resource type
- Getty AAT Subjects
- Publisher
- Contributor
- Original subject

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Unpath'd Waters is funded by the Arts and Humanities Research Council under the Towards a National Collection programme.

The Unpath'd Waters portal reuses e-infrastructure constructed within the EU-funded ARIADNE and ARIADNEplus project.

Leaflet | © OpenStreetMap contributors

37 resources in the current view

Geo point | Geo shape | Approx. location

Display as search result

Hide filters

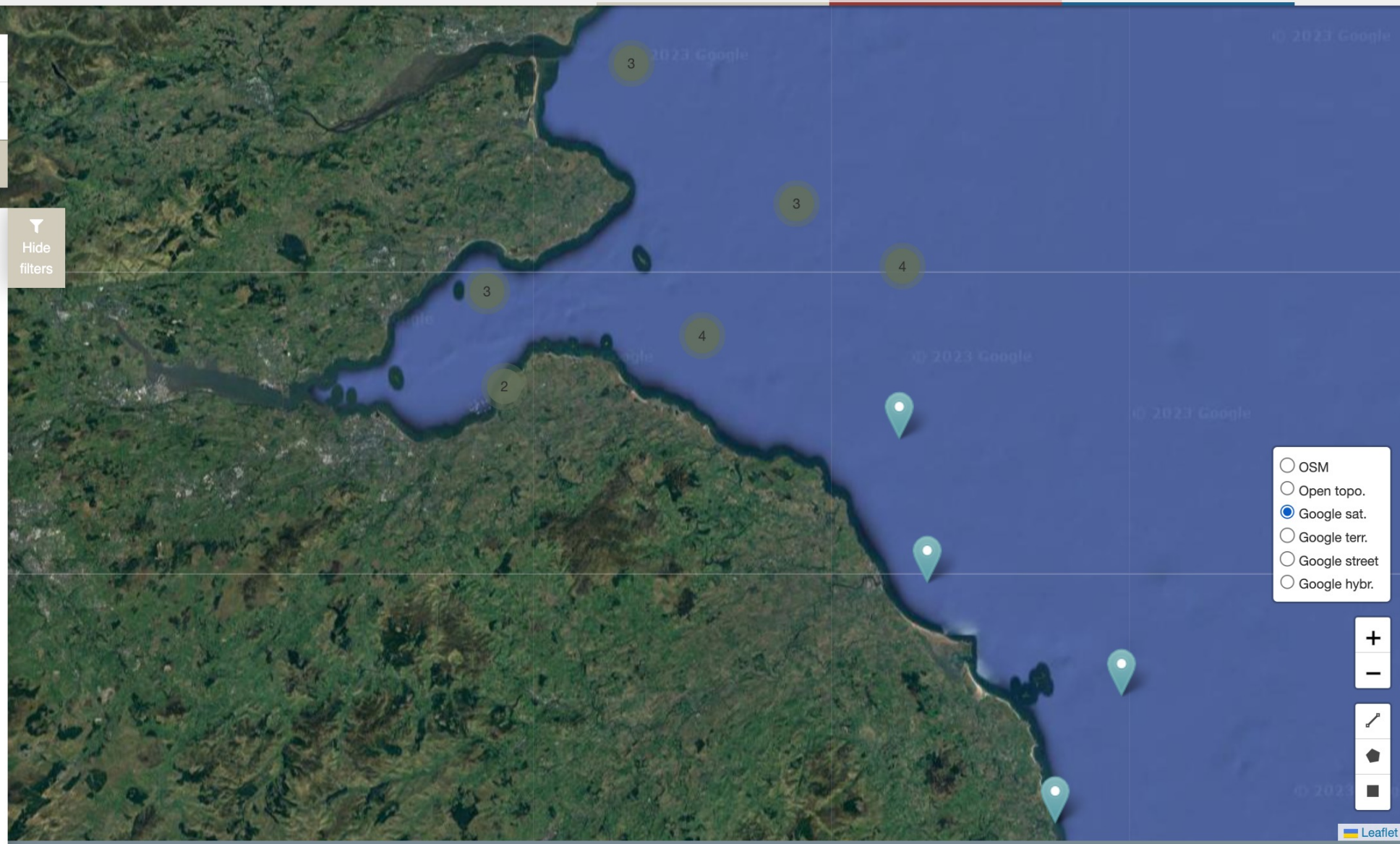
Filters

All fields | Search resources...

Clear All Filters ×

Year (from) | Year (to) | Apply

- Resource type
- Getty AAT Subjects
  - sub | Name | Hits
  - Submarines × 352
- Publisher
- Contributor
- Original subject



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Filters

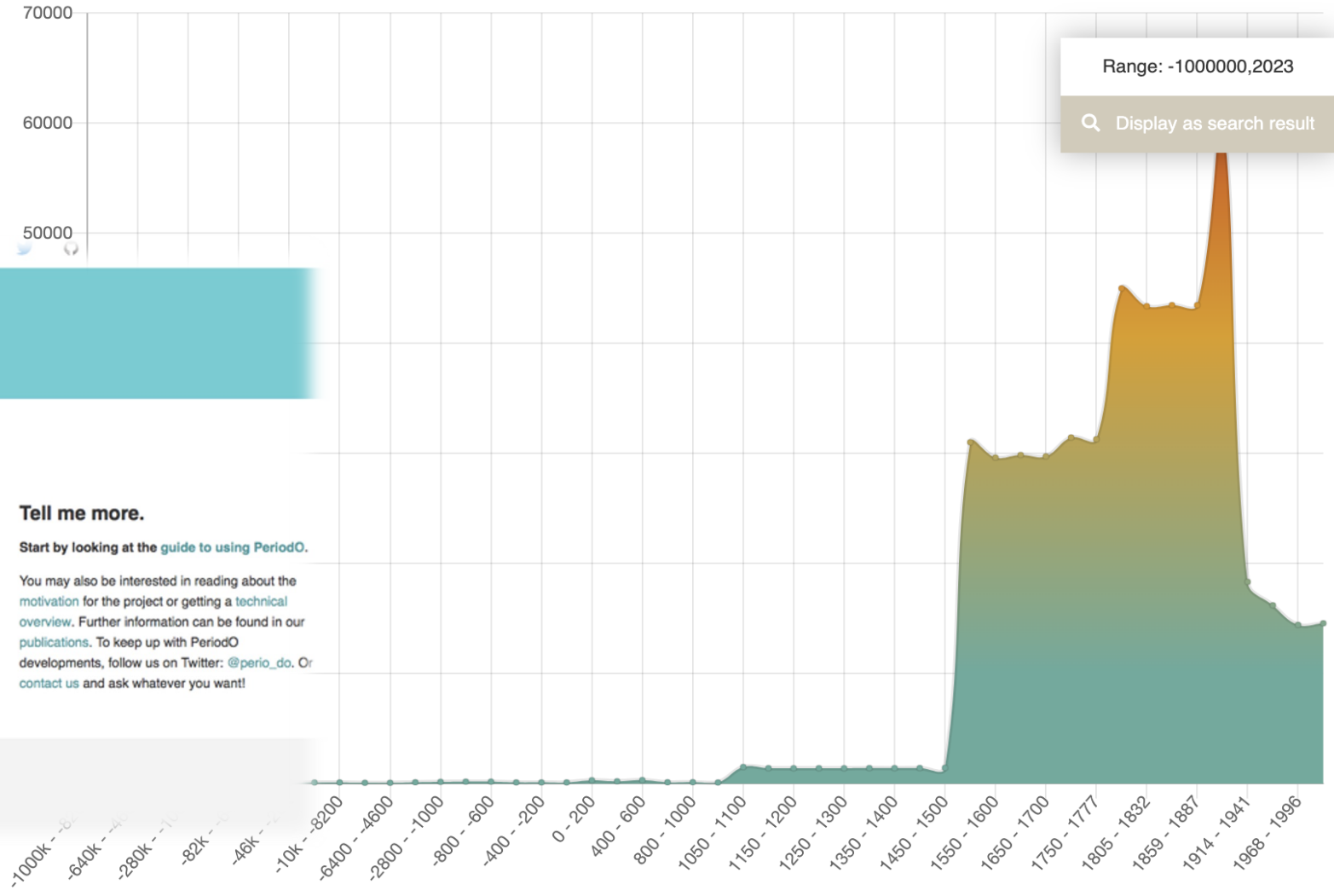
All fields | Search resources...

Year (from) | Year (to) | Apply

- Resource type
- Getty AAT Subjects
- Publisher
- Contributor
- Original subje
- Dating

Browse when

Scroll on the timeline to zoom. Drag to pan. Hold shift and drag a selection to apply a time range. Click "Display as search result" to search the time range in the catalogue.



Download Guide Motivation Technical overview Data model Publications Contact

PeriodO

A gazetteer of period definitions for linking and visualizing data.

Download the period definitions as JSON. **Use** the PeriodO period browser.

What is this?

PeriodO is a gazetteer of scholarly definitions of historical, art-historical, and archaeological periods. It eases the task of linking among datasets that define periods differently. It also helps scholars and students see where period definitions overlap or diverge.

Who are you?

The PeriodO project is led by Adam Rabinowitz (University of Texas at Austin), Ryan Shaw (University of North Carolina at Chapel Hill), and Eric Kansa (OpenContext). Patrick Golden developed the PeriodO software and Sarah Buchanan helped curate the initial dataset. Our work is funded by a Digital Humanities Start-Up Grant from the Office of Digital Humanities at the National Endowment for the Humanities.

Tell me more.

Start by looking at the guide to using PeriodO.

You may also be interested in reading about the motivation for the project or getting a technical overview. Further information can be found in our publications. To keep up with PeriodO developments, follow us on Twitter: @perio_do. Or contact us and ask whatever you want!

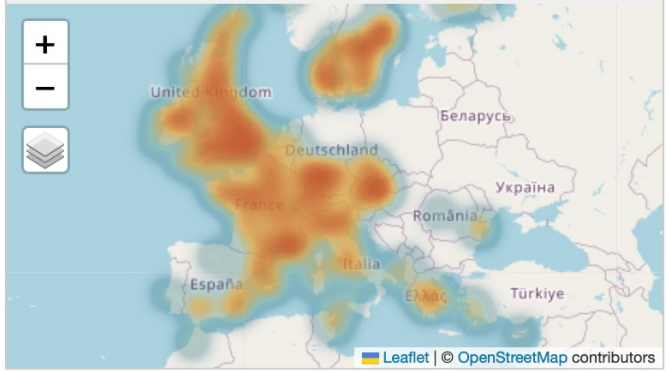
National Endowment for the Humanities

Filters

All fields | Search 3,487,943 resources...

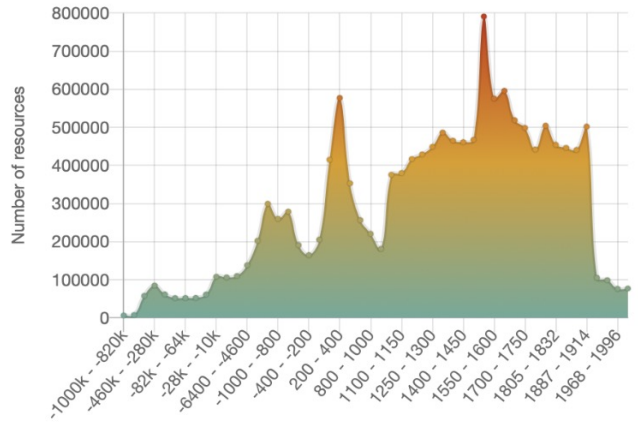
Where

Advanced Search



When

Advanced Search



Filter By Year | Filter By Time Periods

Year (from) | Year (to) | Apply

Results

Time: 0.71s. Total: 3,487,943. Page: 1 / 174398

« 1 2 3 4 5 »

Order: Issued Date | Per page: 20

Images from a Historic Building Survey of the Barn at 2 Dowbridge Way, Kirkham, 2018

This digital archive contains images from a historic building survey recording of the baren at 2 Dowbridge, Kirkham. The survey was undertaken and completed by The Archaeology Co. in 2018...

Resource type: Building survey
Publisher: Archaeology Data Service
Original subject: Barn, Building survey, Buildings--england, Farm, Farm buildings

Report and Images from Archaeological Investigations at West Road, Lympsham, Weston-Super-Mare, 2020

This collection comprises the site report and digital photographs from archaeological investigations on land at West Road, Lympsham, Weston-Super-Mare, Somerset. The work was undertaken prior to residential development by AC Archaeology in March and November 2020. The investigations uncovered evidence for archaeological features dating from the medieval and post-medieval periods with some use of ..

Resource type: Fieldwork archive
Publisher: Archaeology Data Service
Original subject: Antler tine, Ditch, Excavation, Excavations (archaeology)--england, Jar

Digital Photographs and Written Scheme of Investigation from a Historic Building Survey and Archaeological Monitoring: Goldfinch Cottage, Place Lane, Compton, Winchester, Hampshire, 2018

This collection comprises digital photographs and the written scheme of investigation from a Historic Building Survey and Archaeological Monitoring works that were undertaken by Allen Archaeology Limited at Goldfinch Cottage, Place Lane, Compton, Winchester, Hampshire, 2018. The works were undertaken as a condition for planning consent for residential development. The works identified four broad..

Resource type: Building survey
Publisher: Archaeology Data Service
Original subject: Building survey, Buildings--england, Cistern, Field survey, Outbuilding

Images from a Level 2 Descriptive Buildings Record Survey at 278-284 High Street West, Sunderland, 2022

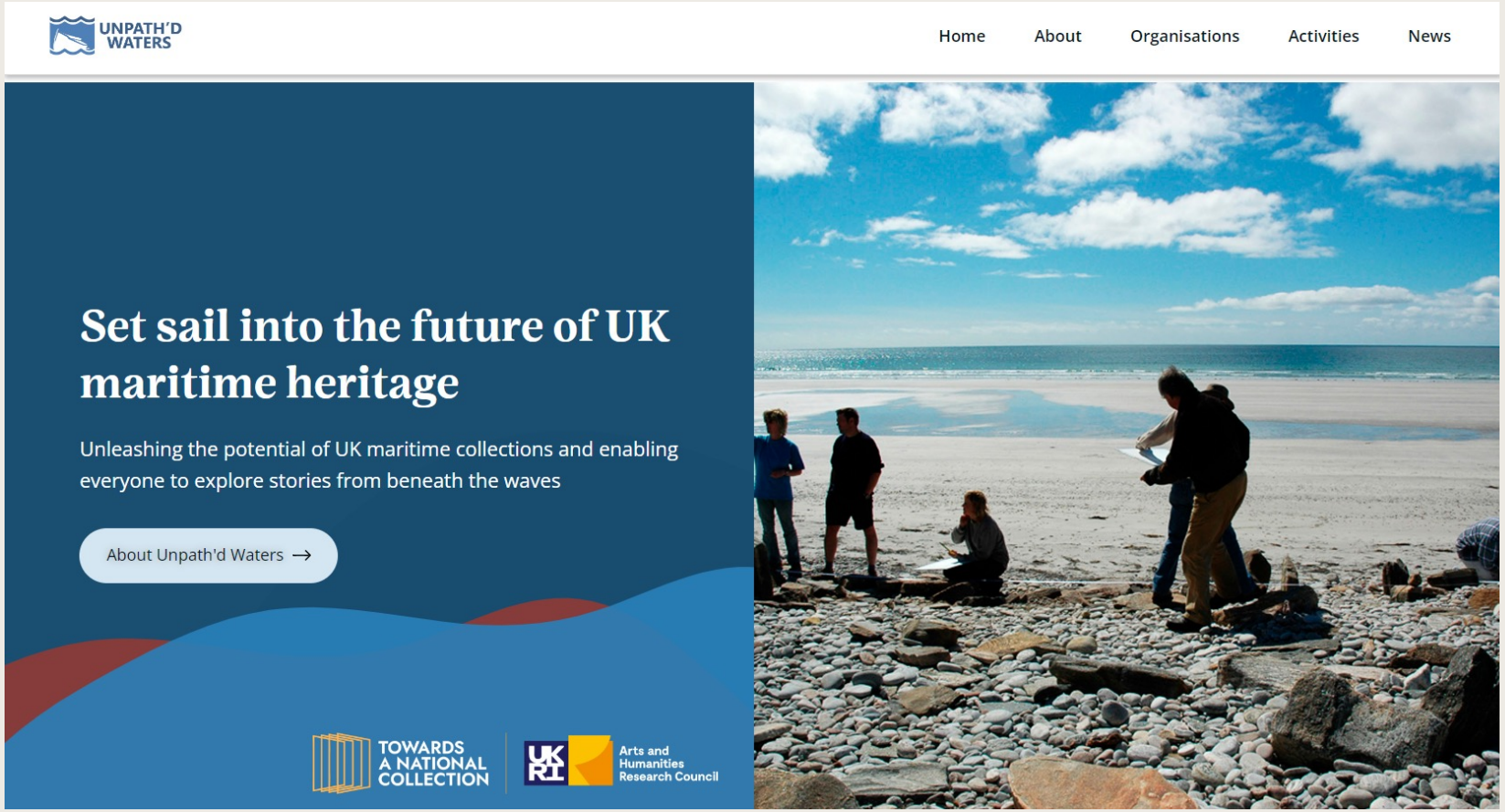
This collection comprises the digital photographs from a Level 2 Descriptive Buildings Record photographic survey of 19th-century and later buildings at 278-284 High Street West, Sunderland, undertaken by Archaeological Services Durham University in 2022...

Resource type: Building survey
Publisher: Archaeology Data Service
Original subject: Buildings--england, Descriptive buildings record (level 2), Shop

Digital Archive from Archaeological Investigations and Recording Work at Brunswick Wharf, Bideford, May 2021 to March 2022

TaNC: Issues arising

- *Discovering collections*: Complexity of connectivity – metadata only – or at level of data?
- *Analogue to Digital:* Digitisation strategy and approach to FAIRness
- *Controlled vocabularies*: national vs international?
- *Authority:* Dealing with AI enhanced metadata vs the authoritative "national" records
- *Inherent issues:* Missing search terms in our conventional metadata e.g. "Slavery"

Unpath’d Waters: Keep up to date

- https://unpathdwaters.org.uk/
- https://unpathd.ads.ac.uk/