

## **ADS / Internet Archaeology Annual Report 1 August 2012 – 31 July 2013**

*The Archaeology Data Service (ADS) supports research, learning and teaching with free, high quality and dependable digital resources. It does this by preserving digital data in the long term, and by promoting and disseminating a broad range of data in archaeology. The ADS promotes good practice in the use of digital data in archaeology, it provides technical advice to the research community, and supports the deployment of digital technologies. It also manages the ejournal 'Internet Archaeology', published under a Council for British Archaeology imprint. The ADS was established at the University of York in 1996, and currently has a staff of seventeen.*

### **1. Highlights of the year**

Once again we can report a highly successful year. We have continued our award winning run from 2011-12, and in December 2012 we were awarded the Digital Preservation Coalition's Decennial Award for the most outstanding contribution to digital preservation over the last decade. The shortlist also included the Library of Congress, the National Archives, and the International Internet Preservation Consortium. ADS Director Julian Richards and Deputy Director Catherine Hardman were delighted to receive the award from Dame Lynne Brindley at a ceremony at the Wellcome Institute in London. In April we were shortlisted for the Times Higher Education (THELMA) awards for Library Team of the Year. ADS Director Julian Richards, Communications and Access Manager Katie Green, European Projects Manager Holly Wright, Applications Developer Michael Charno, and Digital Archivist Jo Gilham, along with other members of the University of York and their guests, attended the black tie Dinner and THELMA Awards Ceremony at the Grosvenor Hotel, London, which was hosted by comedian Dara O'Briain. It was noted that this category had been highly contested and ADS was Highly Commended as, despite not having any books, we were described as being a very successful library in all but name.

We completed work on two European projects: ACE and CARARE, but are delighted that three new ones have begun: NEARCH involves many of the same partners as ACE but has a focus on community archaeology; in LoCloud we continue our work supplying metadata for UK archaeology to Europeana, with an emphasis now on small cultural heritage providers; finally, we are playing a significant role as deputy leaders of ARIADNE, a research infrastructure network which will allow us to undertake research and development in natural language processing and linked data, as well as to promote the dissemination of grey literature throughout Europe. *Internet Archaeology*, included for the first time in this report, made further steps to becoming a full Gold Open Access ejournal. If we add the publication in hard copy of two new Guides to Good Practice, as well as the launch of the first ADS 'mobile app', developed in collaboration with the British Library, and the very positive outcome of the 'Value of ADS' project then there are many reasons to celebrate.

For the longer term, however, it is the completion of SWORD-ARM, and the launch of ADS-easy that is the most important investment, as it will streamline costing and

deposition and allow ADS to deal with a step-change in the number of commercially-charged data deposits, further securing our long term position.

## 2. Collections Development

### Outline of significant new negotiations and collections

#### *Southampton Collections*



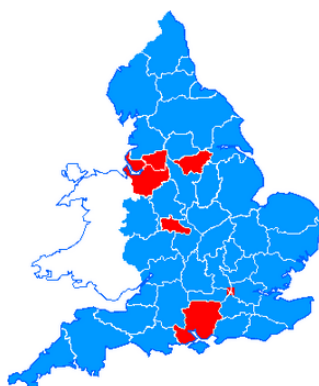
Southampton Arts and Heritage is the final recipient of all archives generated by archaeological fieldwork within the Southampton city boundary. Its role is to store and care for the objects and the paper, photographic and digital records which provide the permanent record of any excavation, watching brief or building recording. Making these objects and records available is also an essential part of the service, and archives can be viewed by appointment. A database of itemised finds, individual objects made of metal, worked bone, worked stone, wood and other materials, is available on the Southampton City Council website. Southampton's archaeology collections are designated as of national importance. The strength of the collections lies in the programme of systematic excavations undertaken since the 1960s. These have produced important evidence of everyday life in the medieval town and its Saxon predecessor, Hamwic. There is also increasing evidence of prehistoric activity in the area, and of life in the Roman town of Clausentum, the first urban settlement within the modern city. The increasing amount of digital data in archives from archaeological fieldwork, however, presents problems for long term archiving. The need to refresh and migrate data has led to increasing pressure on resources. Working with ADS ensures that digital data from fieldwork can be made available to the widest possible audience.

#### *Historic Landscape Characterizations for English Heritage*

Surveys archived with the ADS:

- Black Country
- Cheshire
- Colne Valley Park
- Greater Manchester
- Hampshire
- Merseyside
- South Yorkshire

*The map (below) highlights HLC surveys that have been deposited with the ADS. Click on any of the coloured areas to access the relevant archive. Areas are indicative of those covered by the surveys but may not represent the actual survey extents.*



The Historic Landscape Characterisation (HLC) programme is a powerful tool that provides a framework for broadening understanding of the landscape and contributes to decisions affecting tomorrow's landscape. HLC projects produce interactive GIS-based descriptions of the historic dimension - the 'time-depth' - that characterises our rural landscape. HLC work is conducted in line with the European Landscape Convention (ELC), which came into force in 11 ratifying countries on 4 March 2004. It was signed by the UK in February 2006 and ratified on 21 November 2006. It came into force in the UK on 1 March 2007, and English Heritage published its ELC Action Plan in early 2009: European Landscape Convention - The English Heritage Action Plan for Implementation. The programme is now complete and ADS has been commissioned by English Heritage to archive and disseminate all the HLC outputs for England, which will build up into a spatial data resource of tremendous national importance.

*Ceramics and Society: Early Tana Tradition and the Swahili Coast*



Locally-produced ceramics are the most ubiquitous find on archaeological sites in East Africa and their study offers the potential to develop a robust understanding of activity and interaction within and between sites. In particular, understandings of the Iron Age societies that developed on the East African coast and its hinterland have been transformed by exploration of a particular group of vessels known as Early Tana Tradition or Triangular-Incised Ware. During the late first millennium, c. AD 600 - 900, sites across East Africa were united by the production and use of these ceramics, consisting of necked jars with incised decoration and a series of other jar and bowl forms in varying quantities.

The *Ceramics and Society* project sought to explore this corpus of Early Tana Tradition ceramics, creating a database of sherds from excavated sites across the region. The history of research in East Africa has resulted in a very diverse set of methodologies and analytical systems being applied to different sites, and through systematic comparison *Ceramics and Society* sought to bring these data into a common framework for comparison. In a project funded by the British Academy and the British Institute in Eastern Africa, a series of key ETT/TIW sites were revisited, and sherds analysed according to a single system, allowing quantitative cross-site comparison for the first time.

The production of a database for future studies was central to the aims of the project. The depositors, Fleisher and Wynne-Jones, hope that the *Ceramics and Society* data will allow future researchers to put their own finds into context. It is hoped that the

ADS archive will be taken in multiple different directions by scholars of the coastal region, facilitating the analysis of new ceramic assemblages and a re-examination of stored collections.

**Number of new negotiations by month and funder**

	<b>Negotiation start date</b>	<b>Funder</b>	<b>Title</b>
1	Aug 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: DNPA HER Fieldwork
2	Aug 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: GB Building Solutions
3	Aug 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Nexus Heritage
4	Aug 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Addyman Archaeology
5	Aug 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: JB Heritage Consultancy
6	Sep 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Mark Gillings
7	Sep 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: WANHSAFG
8	Sep 2012		Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Paralympic Games
9	Oct 2012	Devon County Council	2 Rock View, Devon Consols, Householder application for erection of extension to house plant room
10	Oct 2012	Devon County Council	The Former Showground at Holsworthy, Devon
11	Oct 2012		Osteological Analysis of Early Bronze Age human skeletal remains in Tyne and Wear Museums
12	Oct 2012		Traders, looters or settlers? Constructing a chronology for the westward Viking expansion
13	Oct 2012	English Heritage	Anglo-Saxon Graves and Grave Goods of the 6th and 7th Centuries AD: A Chronological Framework

14	Oct 2012	Southampton City Council	Electricity Transformer House, Ocean Terminal, Southampton (SOU1586)
15	Oct 2012	Southampton City Council	Chapel, Royal South Hants Hospital, Fanshawe Street, Southampton (SOU1570)
16	Oct 2012	Southampton City Council	Bald Faced Stag, 36 Edward Street, Southampton (SOU1571)
17	Oct 2012	Southampton City Council	Anderson's Road, Southampton (SOU1240)
18	Oct 2012		John Moore Heritage Services: Excavation data deposited according to instruction from Southampton City Council
19	Oct 2012		Visualising Animal Hard Tissues
20	Nov 2012	Network Rail	York Engineers' Triangle (Ramboll)
21	Nov 2012		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Orkney Research Centre for Archaeology
22	Nov 2012	The Discovery Programme	The Western Stone Forts Project
23	Nov 2012	English Heritage	Blackfriars, Gloucester
24	Nov 2012		Medieval Church in Liguria, Italy
25	Nov 2012		Legacies of the Home Front: First World War Pilot Project
26	Nov 2012		Atlas of Rural Settlement in England
27	Nov 2012		Plymouth City Museum and art Gallery
28	Nov 2012		Implement Petrology Group
29	Dec 2012	English Heritage	West Coast Palaeolandscapes Survey Main
30	Dec 2012	English Heritage	Wroxeter: Barker excavations (pottery database and drawings)
31	Dec 2012		Land at Recreation Way, Mildenhall, Suffolk (cotswold2-134540)
32	Dec 2012		Gloucestershire Historic Landscape Characterisation (HLC) including the Cotswolds and the Wye Valley Areas of Outstanding Natural Beauty
33	Dec 2012		Avon Historic Landscape Characterisation (HLC)
34	Jan 2013		Proceedings of the Computer Applications in Archaeology Conference
35	Jan 2013	AHRC	Objects and Identities in Roman Britain and the North-Western Provinces
36	Jan 2013		Cornish Archaeology and The Proceedings of the Devon Archaeological Society
37	Jan 2013		The Ebbsfleet Elephant: Excavations at Southfleet Road, Swanscombe in advance

			of High Speed 1, 2003-4
38	Jan 2013		Enhancing the Palaeolithic and Mesolithic Records of the South Yorkshire SMR
39	Jan 2013		A case study of the hillforts and defended enclosures on Gower, Wales using enhanced GIS surface analysis
40	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Access Cambridge Archaeology
41	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Archaeological Burials Company
42	Jan 2013		Evaluating the Archaeological Resource in Store
43	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: archaeologica ltd
44	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Wardell Armstrong Archaeology
45	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: GUARD Archaeology Ltd
46	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Stephen John Baldwin
47	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Ramboll
48	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Archaeology Wales
49	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Archaeology Warwickshire
50	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Barry Hillman-Crouch
51	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Bristol and Region Archaeological Services
52	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: C. G. Archaeology

53	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Centre for Applied Archaeology
54	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Clwyd-Powys Archaeological Trust
55	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: English Heritage Geophysics Team
56	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Scarborough Archaeological and Historical Society
57	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Entec UK Ltd
58	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Heather Wallis
59	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: PRO Archaeology Services
60	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: The Jessop Consultancy
61	Jan 2013		Humour in Archaeology
62	Jan 2013		Propylaea
63	Jan 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Harrison Sutton Partnership
64	Feb 2013		POSTGLACIAL project archives
66	Feb 2013	Southampton City Council	Laxton Close (Southampton Regeneration), Sholing, Southampton: An Archaeological Evaluation Report (aocarcha1-130357)
67	Feb 2013		AOC Archaeology: Excavation data deposited according to instruction from Southampton City Council
68	Feb 2013	Southampton City Council	Exford Drive (Southampton Regeneration), Harefield, Southampton: An Archaeological Evaluation Report
69	Feb 2013	Southampton City Council	Meggesson Avenue (Southampton Regeneration), Townhill Park, Southampton: An Archaeological Evaluation Report (aocarcha1-124784).

70	Feb 2013	Southampton City Council	Mayflower Plaza, Commercial Road, Southampton: Archaeological Desk-Based Assessment (aocarcha1-138220)
71	Feb 2013		Warwickshire Historic Landscape Characterisation (HLC)
72	Feb 2013		Watching Brief at Woolston and Sholing Conservative Club, 74 St Annes Road, Sholing, Southampton
73	Feb 2013		Watching Brief at 30-32 Carlton Road, Southampton
74	Feb 2013		Archaeological Field Evaluation at Five Acre Field, Romsey Road/Redbridge Lane, Lordshill, Southampton
75	Feb 2013		Warwickshire Historic Farmsteads Characterisation Project
76	Feb 2013		Excavations in Medieval Settlements at Volubilis 2000-2004
77	Feb 2013	English Heritage	Cheshire Historic Landscape Characterisation (HLC)
78	Feb 2013		And I called them Assyrians: An Archaeological and Archaeometric Analysis of Neo-Assyrian Palace Ware
79	Feb 2013		Cathedral Libraries Initiative
80	Feb 2013	AHRC	Early Urbanism in prehistoric Europe?: the case of the Tripillye mega-sites
81	Feb 2013	AHRC	Dama International: fallow deer (dama dama dama) and European society 4000 BC - AD 1600
82	Feb 2013	AHRC	Makapansgat and the heritage of South African Palaeoanthropology
83	Feb 2013	AHRC	Foreigners and locals in Roman Britain: painting a more complex picture for school children
84	Mar 2013	English Heritage	Drigg Burnt Mound, West Cumbria
85	Mar 2013		Carlisle Northern Development Route (CNDR)
86	Mar 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Vindomora Solutions
87	Mar 2013		Religion and the early scholars in the Levant: a web resource
88	Mar 2013		Cumbria and the Lakes Historic Landscape Characterisation (HLC)
89	Mar 2013	English Heritage	Hampshire Historic Landscape Characterisation (HLC)
90	Mar 2013		Kevin Trott Archaeological Services: Grey Literature Reports
91	Mar 2013		The Archaeological Journal Data Supplements



92	Mar 2013		3D Catalhoyuk: towards a theory of practice in archaeological 3D modelling
93	Mar 2013		Ancient Egyptian Canopic Equipment
94	Mar 2013		Adding a new dimension to Dundee's medieval carved stones
95	Mar 2013		Archaeologia Cantiana: Journal of the Kent Archaeological Society
96	Mar 2013		British School at Rome Publications
97	Mar 2013		The Lower Goksu Archaeological Salvage Survey
98	Mar 2013	English Heritage	Northern Lanes, Carlisle (Volume 1 Roman)
99	Apr 2013		UCL Slide Collection
100	Apr 2013		Herefordshire Archaeology: Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms
101	Apr 2013		Carlisle Cathedral
102	Apr 2013		Society of Antiquaries of Scotland - Book collection
103	May 2013		Cross-Channel Thinking. Comparative Archaeological Analysis in the Age of 'Big Data'
104	May 2013	AHRC	Chicken and people
105	May 2013		Assessing the Visual Representation of Data in Archaeology
106	May 2013		British views of an antique land: Imaging Egypt from the First World War and before
107	May 2013		Identity and the Cruciform Brooch in Early Anglo-Saxon England: An Investigation of Style, Mortuary Context, and Use
108	May 2013		Journal of Church Archaeology
109	May 2013		Essex Historic Landscape Characterisation Project (HLC)
110	May 2013	AHRC	Fragmented Heritage
111	May 2013	English Heritage	Leicestershire and Rutland Aggregate Resource Assessment
112	May 2013	University of York	Burdale
113	May 2013	Andrew W. Mellon Foundation	Aldebaran
114	May 2013		The king in the car park: new light on the death and burial of Richard III
115	May 2013		Archwilio
116	May 2013		East Kent Access Road

117	Jun 2013	Deutsches Archaeologis ches Institut (DAI)	Wirtschaft und Umwelt im Wadi al-Arab von der Frühbronzezeit bis in die islamische Zeit - Archäozoologische Studien am Tall Zira'a (Nord-Jordanien)
118	Jun 2013	AHRC	Cache Cave in Context: Hunter-Gatherer storage and wealth in South-Central California
119	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: University of Sheffield, Department of Archaeology
120	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Caroline Atkins
121	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Katie Warner
122	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Marc Berger
123	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Midland Archaeological Services
124	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Mike Napthan Archaeology
125	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: National Trust for Scotland
126	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Northlight Heritage
127	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: URS Infrastructure
128	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Peninsula Archaeology
129	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Southampton City Council Archaeology Unit
130	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Castlering Archaeology
131	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: On Site Archaeology

132	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: The Vindolanda Trust
133	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Heritage Protection Department
134	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Bernicia Archaeology
135	Jun 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Heritage Technology
136	Jun 2013		Peterborough Historic Landscape Characterisation (HLC)
137	Jul 2013	English Heritage	Mesolithic Research Framework
138	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Alison Deegan
139	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Dr Stuart Blaylock
140	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Historic Environment Team
141	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Jeanette Ratcliffe
142	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: SNM Pipelines Ltd
143	Jul 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Rubicon Heritage Services Ltd
144	Jul 2013		British Institute in East Africa: Digital Archive

### **New Collections Released**

DB = On line searchable interface

	Accession Date	Release Date	Funder	Title	Special Collection
1	June 2013	July 2013	English Heritage	Cheshire Historic Environment Characterisation Project	

2	April 2013	June 2013	English Heritage	Hampshire Historic Environment Characterisation Project	
3	October 2012	June 2013	English Heritage	Managing Landscape Change: A multi-disciplinary approach to future mineral extraction in North Yorkshire.	
4	November 2011	June 2013	HLF	The Bosworth Battlefield Project	
5	March 2011	May 2013	English Heritage	South Yorkshire Historic Environment Characterisation Project	
6	May 2013	May 2013	English Heritage	Star Carr Archives Project	DB
7	February 2013	May 2013	English Heritage	Isles of Scilly Historic Environment Research Framework	
8	May 2013	May 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Herefordshire Archaeology	
9	March 2013	May 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Archaeology Warwickshire	
10	May 2013	May 2013		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Archaeology Department University of Bristol	
11	March 2010	May 2013	AHRC	Magnetic Moments in the Past	DB
12	May 2013	May 2013		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Lindsey Archaeological Services	
13	May 2013	May 2013		Intervention reports,	

				deposited according to the digital instruction contained within all submitted OASIS forms: PRO Archaeology Services	
14	April 2012	May 2013	English Heritage	Clodgy Moor Environs Lithic Recording Project	
15	May 2013	May 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Stephen John Baldwin	
16	May 2013	May 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: Vindomora Solutions	
17	May 2013	May 2013		Intervention reports, deposited according to the digital instruction contained within all submitted OASIS forms: West Coast Archaeological Services	
18	March 2013	April 2013	None (PhD)	Neo-Assyrian Palace Ware	
19	October 2012	March 2013	Developer	Electricity Transformer House, Ocean Terminal, Southampton	
20	October 2012	March 2013	Developer	Chapel, Royal South Hants Hospital, Fanshawe Street, Southampton	
21	October 2012	March 2013	Developer	Bald Faced Stag, 36 Edward Street, Southampton	
22	October 2012	March 2013	Developer	A Mid-Saxon Site at Anderson's Road, Southampton	
23	October 2012	March 2013	Developer	An Archaeological Excavation at Boldrewood Campus, University of Southampton	
24	March 2013	March 2013		Intervention Reports deposited according to the digital instruction	

				contained within all submitted OASIS forms: Aecern Archaeology	
25	March 2013	March 2013		Intervention Reports deposited according to the digital instruction contained within all submitted OASIS forms: Addyman Archaeology	
26	September 2012	March 2013	Developer	Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Paralympic Games	
27	December 2012	March 2013	English Heritage	West Coast Palaeolandscapes Survey Main	
28	February 2013	February 2013		Intervention reports deposited according to the digital instruction contained within all submitted OASIS forms: A1 Archaeology Ltd	
29	December 2012	February 2013	English Heritage	Marches Archaeology Grey Literature	
30	November 2012	February 2013	English Heritage	Kimbridge Farm Quarry, Dunbridge	
31	May 2012	January 2013	British Academy	Ceramics and Society: Early Tana Tradition and the Swahili Coast	DB
32	February 2012	January 2013	RAI	The Archaeological Journal	
33	November 2012	December 2012	Society of Antiquaries of Scotland	Scottish Archaeological Internet Reports (SAIR)	
34	August 2012	December 2012	English Heritage	Tyne and Wear EUS	
35	January 2011	December 2012	AHRC	A Long Way from Home: Diaspora Communities in Roman Britain	
36	February 2012	November 2012	AHRC	Coastal shell middens and agricultural origins in Atlantic Europe	
37	October 2012	November 2012	English Heritage	North Lincolnshire Coversands Research Project	
38	August 2012	October 2012	AHRC	Culture and Gender in the Danelaw: Scandinavian and	

				Anglo-Scandinavian Brooches, 850-1050	
39	April 2012	October 2012	English Heritage and HLF	Howick project	
40	July 2012	October 2012	Medieval Settlement Research Group	Medieval Settlement Research Journal	
41	April 2012	September 2012	MEDIN	Wrecks on the Seabed R2: Assessing Evaluating and Recording (Unknown)	
42	April 2012	September 2012	MEDIN	Wrecks on the Seabed R2: Assessing Evaluating and Recording (U86)	
43	April 2012	September 2012	MEDIN	Wrecks on the Seabed R2: Assessing Evaluating and Recording (Liberator)	
44	April 2012	September 2012	MEDIN	Contract for Services in Relation to the Protection of Wrecks Act (1973): Diving investigations on the Wreck of the Invincible	
45	April 2012	September 2012	MEDIN	Contract for Services in Relation to the Protection of Wrecks Act (1973): Diving investigations on the submarine HMS/M A1	
46	November 2011	September 2012	Developer	Archaeological Watching Brief with Option to Excavate at Test Park Community Sports Facility, Lower Brownhill Road, Southampton	
47	April 2012	September 2012	English Heritage	Greater Manchester HLC	
48	April 2012	September 2012	English Heritage	Merseyside HLC	

#### Updates/new editions

	Accession Date	Release Date	Funder	Title
1	February 2013	April 2013	None	Update of the ACE Portal for Publications and Outputs
2	November 2012	March 2013	English Heritage	Update of the Archaeological Collections Areas Database and Map

3	2008	February 2013	None	HMJ Underhill Archive update
4	August 2012	December 2012	English Heritage	5848 dates added to CBA Radiocarbon Index
5	September 2012	November 2012	Society of Antiquaries of Scotland	Proceedings Society of Antiquaries of Scotland volumes 135-140 (2005-2010) updated
6	July 2012	September 2012	None	Dendrochronology database updated

### **Grey Literature Library**

From August 2012 to June 2013 we archived **3813** grey literature reports.

### **Internet Archaeology**

During the course of the year 2012-13 *Internet Archaeology* published 16 new articles as well as several reviews:

#### **Issue 32**

*Finding Nero: shining a new light on Romano-British sculpture* -Miles Russell and Harry Manley. Submitted: Nov 2012; Published: Feb 2013; Words: 6118 (81KB); Images: 14 (1MB); Models: 3 (193MB)

*3D Virtual Dig: a 3D Application for Teaching Fieldwork in Archaeology* - Paola Di Giuseppantonio Di Franco, Fabrizio Galeazzi and Carlo Camporesi. Submitted: April 2012; Published: Dec 2012; Words: 9075 (108KB); Images: 10 (1.14MB); Video: 1 (76MB)

*Swords into Ploughshares: Archaeological Applications of CORONA Satellite Imagery in the Near East* - Jesse Casana, Jackson Cothren and Tuna Kalayc. Submitted: March 2012; Published: September 2012; Words: 16500 (279KB); Images: 55 (94MB); Movies: 2 (18MB)

*A Possible Astronomical Alignment marking Seasonal Transitions at Listoghil, Sligo, Ireland* - Pádraig Meehan. Submitted: April 2012; Published: Sept 2012; Words: 35295 (271 KB); Images: 19 (14.8 MB); Animations: 2 (1.4 GB)

#### **Issue 33**

*Portable Antiquities: archaeology, collecting, metal detecting, edited by Stuart Campbell and Suzie Thomas*

*Editorial - Portable antiquities: archaeology, collecting, metal detecting* - Suzie Thomas. Submitted: December 2012; Published: March 2013; Words: 3443 (35KB); Images: 0



*Metal detecting, collecting and portable antiquities: Scottish and British perspectives* -Stuart Campbell. Submitted: September 2012; Published: March 2013  
Words: 8701 (62KB); Images: 2 (1.6MB)

*Can we really differentiate between treasure hunters and non-professional archaeologists?* -Jean-Olivier Gransard-Desmond. Submitted: September 2012; Published: March 2013; Words: 11708 (96KB); Images: 0

*Biting the bullet: the role of hobbyist metal detecting within battlefield archaeology* -Natasha Ferguson. Submitted: September 2012; Published: March 2013; Words: 14994 (126KB); Images: 17 (2MB)

*The Lord's Prerogative and an Act of Trust: portable antiquities in the Isle of Man* -Allison Fox. Submitted: September 2012; Published: March 2013  
Words: 6266 (50KB); Images: 8 (792KB)

*Ownership of heritage resources in South Africa: challenges and opportunities* -Ndokuyakhe Ndlovu. Submitted: September 2012; Published: March 2013; Words: 6296 (51KB); Images: 0

*The Metal Detecting Forum - an online community. Resource, education and co-operation* -Tom Redmayne and Kevin Woodward. Submitted: September 2012; Published: March 2013; Words: 5659 (46KB); Images: 14 (1.4MB)

*Three years on from 'The Nighthawking Survey': innovations in heritage protection* -Pete Wilson and Mark Harrison. Submitted: September 2012; Published: March 2013; Words: 6672 (59KB); Images: 0

## **Issue 34**

*Storing up Problems: Labour, Storage, and the Rural Peloponnese* -Daniel R. Stewart. Submitted: February 2013; Published: July 2013; Words: 10277 (147KB); Images: 4(444KB)

*Time and a Place: A luni-solar 'time-reckoner' from 8th millennium BC Scotland* - Vincent Gaffney, Simon Fitch, Eleanor Ramsey, Ron Yorston, Eugene Ch'ng, Eamonn Baldwin, Richard Bates, Christopher Gaffney, Clive Ruggles, Tom Sparrow, Anneley McMillan, Dave Cowley, Shannon Fraser, Charles Murray, Hilary Murray, Emma Hopla and Andy Howard. Submitted: June 2013; Published: July 2013; Words: 10050 (117KB); Images: 20 (5MB); Animations/ Visualisations: 3 (73MB)

*A Late Roman Well at Heslington East, York: ritual or routine practices?* -Steve Roskams, Cath Neal, Jane Richardson and Ruth Leary. Submitted: February 2013; Published: July 2013; Words: 18909 (154KB); Images: 9 (2MB); Digital Archive

*Being a Modern Human: essentialist and hierarchical approaches to the emergence of 'modern human behaviour'* -Terry Hopkinson. Submitted: February 2013; Published: June 2013; Words: 19420 (163KB); Images: 6 (548KB)

*'A Sea of Small Boats': places and practices on the prehistoric seascape of western Britain* -Gary Robinson. Submitted: December 2012; Published: May 2013; Words: 38918 (324KB); Images: 22 (6MB); Animations: 2 (1.8MB)

During 2012-13 it was decided to take *Internet Archaeology* further down the road of becoming an Open Access journal and issues 1-21 are now completely freely available throughout the world. The rest of the journal content is already freely available to UK HE/FE, under the terms of a JISC site license. The ADS has also successfully archived the contents of an additional **331** *Internet Archaeology* articles, representing the full back run of the journal.

### **3. Collections Management and Preservation**

#### **Systems developments**

After last year's major investment in data storage and replacement frontline servers it has been a fairly quiet time on the systems front in terms of equipment.

- Two staff PCs were purchased. These see the start of a move from a three year to a five year replacement cycle with corresponding warranties.
- Following the successful use of a virtual server supplied and maintained by University of York IT Services as a front end to our York based data store we have acquired a second virtual server to act as a dedicated host for the Society of Antiquaries library catalogue front end. This was necessitated by the use of ex libris software which is only supported on certain platforms. These virtual servers are supplied free for internal projects and at reasonable *per annum* costs for external projects such as the Antiquaries. They will have a place in future ADS planning.
- The introduction of the University wide York Print Plus (YPP) service means the ADS no longer has to provide staff with peripherals such as scanners or printers or the consumables they use. Whilst the service is not free it appears cost effective both financially and in terms of staff time.
- The major task of the migration of services onto the new frontline servers noted in last year's report is almost complete. The old servers are being repurposed as development machines.

#### **Curation**

As part of other projects the Collections Management System (CMS) is undergoing further development and closer integration with other systems such as ArchSearch.

- All deposited datasets were accessioned into the CMS.
- During the course of the year preservation and resource discovery metadata was prepared for all new collections.
- Preservation copies of all data continue to be synchronised offsite into our deep storage facility within the UK Data Archive at the University of Essex.

- The ADS curatorial team are continuing to use a series of checklists to audit completion of all ingest tasks; datasets are signed off by the appropriate project manager on completion of preparation and delivery.
- Preservation manuals and internal data procedures were kept under ongoing review.

### **System uptime**

#### *Unplanned downtime*

Server	Date	Downtime (hour.min)	Comment
Medea	13–14 Mar 2013	18.11	Service loss (file server) after planned reboot
minerva3	19 Mar 2013	1.59	Service loss (Oracle) after planned reboot
mapserver	27 May 2013	0.30	Tomcat PermGen space ran out, possibly due to MINT

#### *Planned downtime*

Server	Date	Downtime (hour.min)	Comment
	none		

Patching of recent servers requires minimal downtime as recent versions of the Solaris operating system supports Live Update where a root clone is patched and then mounted. Patching of older servers took place during the Tuesdays 8-9am (UK time) advertised 'at risk' period.

## **4. Advisory services**

### **New guidelines**

All revisions and developments of the new Guides to Good Practice, including case studies, have been completed and they are available at <http://guides.archaeologydataservice.ac.uk>. Two hardcopy Guides to Good Practice: *Caring for Digital Data in Archaeology*, commissioned by Digital Antiquity, and *Geophysical Data in Archaeology*, were published by Oxbow Books in June 2013.

### **Number of AHRC projects seeking advice (meeting/email/phone)**

18 emails covering c.10 projects

### **Number of AHRC Technical Appendices Assessed**

9 technical appendices were assessed on behalf of AHRC.

### **Workshops**

#### *IfA ADS-easy workshop:*

A workshop was conducted during the IfA Conference (17-19 April 2013, University of Birmingham, UK) and had 15 attendees from a variety of archaeological

backgrounds. This workshop was an opportunity for ADS to provide digital preservation advice to the archaeological community and introduce the new ADS-easy tool for depositors. The workshop consisted of a presentation on digital data and the archaeological record, a demonstration on best practice for digital archiving, and a walkthrough of the future functionality of ADS-easy. The workshop concluded with an open question and answer session.

## **5. Publicity and promotion**

### **Conference and Workshop Appearances**

In addition to broad conference attendance, members of staff from the ADS presented a combined total of 38 papers at 33 different conferences, workshops and seminars throughout the year. These included major international conferences such as CAA Perth (ADS presented on using linked open data, the economic impact of ADS, and the ARIADNE project), Sustainable Archaeology in Xi'an, WAC in Jordan, the APA conference and the DSA conference, as well as UK conferences such as CAA UK, and the IfA annual conference. A full list of conferences, workshops and other significant meetings attended is available in Appendix E.

### **University Visits**

ADS staff gave lectures or seminars at the following universities over the past year: University of Bradford, University of Southampton, University of Chester, University of Liverpool, University of Manchester and University College Dublin. We intend to double the number of university visits next year and have contacted every archaeology department in the UK to offer our services. Work has also been undertaken to create a work pack for universities which we are unable to visit and this will be available next year.

### **Newsletter**

Issue 25 of the ADS hardcopy newsletter was published in March 2013. Over 500 copies were sent to university archaeology departments, Historic Environment Record (HER) offices, major archaeological services and key ADS stakeholders. Over 400 additional copies have been distributed during conferences, seminars and workshops.

### **E-Newsletter**

Work has been undertaken to design an e-newsletter which will be published quarterly with the first edition due in October 2013. This will be distributed to all our registered users and via the ADS-managed JISC mail accounts.

### **Email Lists**

The ADS general list [ads-all@jiscmail.ac.uk](mailto:ads-all@jiscmail.ac.uk) which is used to publicise key events and activities posted 14 emails over the past year and membership has continued to grow with 1539 members currently registered. The British Archaeology [britarch@jiscmail.ac.uk](mailto:britarch@jiscmail.ac.uk) discussion list (CBA moderated) has increased to 1557 members. ADS also regularly posts to the Antiquist, HER Forum, FISH and the IfA IMSIG lists.

*Internet Archaeology's* email list [intarch-interest@jiscmail.ac.uk](mailto:intarch-interest@jiscmail.ac.uk) is similarly used to publicise new releases and other related news to its steady membership (c300). But social media, especially Twitter, appears to have taken over its publicity role.

### **RSS News Feed**

The ADS RSS news feed continues to run with an average of four new news items per month (c.40 in the last year) and is consumed by Wessex Archaeology amongst others. The *Internet Archaeology* RSS news feed posts an average of 1-2 news items per month.

### **Press Releases and News Items**

*The DPC Decennial Award* was publicised via the ADS website, social media and email lists as well as via the following press releases by the University of York, the Department of Archaeology, and the DPC:

- <http://www.york.ac.uk/news-and-events/news/2012/quality/archaeology-year/>
- <http://www.york.ac.uk/archaeology/news-and-events/news/external/2012/ads-dcp-award/>
- <http://www.dpconline.org/newsroom/latest-news/945-saving-the-digital-decade-dpc-recognizes-major-accomplishments-to-safeguard-our-digital-memory>

In July *Internet Archaeology* published an article (<http://dx.doi.org/10.11141/ia.34.1>) on a Mesolithic lunar calendar which made headlines across the world. *Internet Archaeology* was directly mentioned in the BBC article (<http://www.bbc.co.uk/news/uk-scotland-north-east-orkney-shetland-23286928>) as well as numerous other news articles including *National Geographic*, *PhysOrg*, *MSN* and *archaeology.org*. The following press release by the University of York, Department of Archaeology publicised *Internet Archaeology's* involvement:

<http://www.york.ac.uk/archaeology/news-and-events/news/external/news2013/internet-archaeology-lunar-calendar/>

Media coverage of the story behind the publication of *A Late Roman Well at Heslington East, York: ritual or routine practices?* (*Internet Archaeology* <http://dx.doi.org/10.11141/ia.34.5>) included *Minster FM*, *The Yorkshire Post*, *The Press*, *Beautiful North Yorkshire*, *Science Daily*, and *archaeology.org*.

In conjunction with Digital Antiquity, ADS announced the publication of the two new Guides to Good Practice, *Caring for Digital Data in Archaeology* and *Geophysical Data in Archaeology* via the usual publicity channels and the following press releases by ADS and tDAR:

- <http://archaeologydataservice.ac.uk/blog/2013/05/two-new-print-publications-of-the-guides-to-good-practice-are-out-now/>
- <http://www.tdar.org/news/2013/05/announcing-caring-for-digital-data-in-archaeology-a-guide-to-good-practice-co-published-with-ads/>

The THELMA prize nomination was advertised via the normal channels and through the following University of York press release. <http://www.york.ac.uk/news-and-events/features/thelma-2013/>. The ADS received high commendations at the awards as publicised in a University of York, Department of Archaeology press release:

<http://www.york.ac.uk/archaeology/news-and-events/news/external/news2013/the-leadership-and-management-awards/>.

The ADS was also mentioned in the international press releases for the SENESCHAL, NEARCH and ARIADNE projects.

### **Blog Mentions**

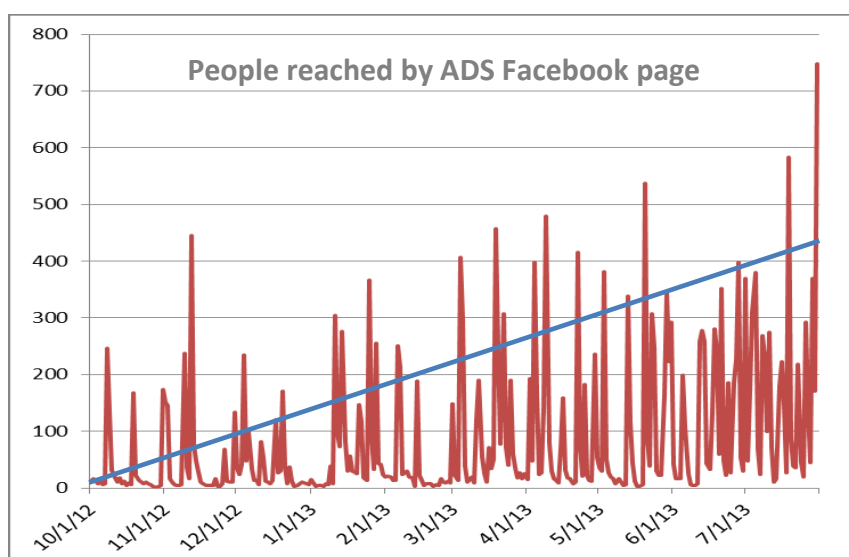
The ADS has been mentioned in many blog posts over the past year, including those of the Keeper's Registry and Neil Beagrie:

<http://thekeepers.blogs.edina.ac.uk/2013/05/15/two-new-keepers-report-e-journal-archiving/>

<http://blog.beagrie.com/2012/12/17/project-update-the-impact-of-the-archaeology-data-service-a-study-and-methods-for-enhancing-sustainability/>

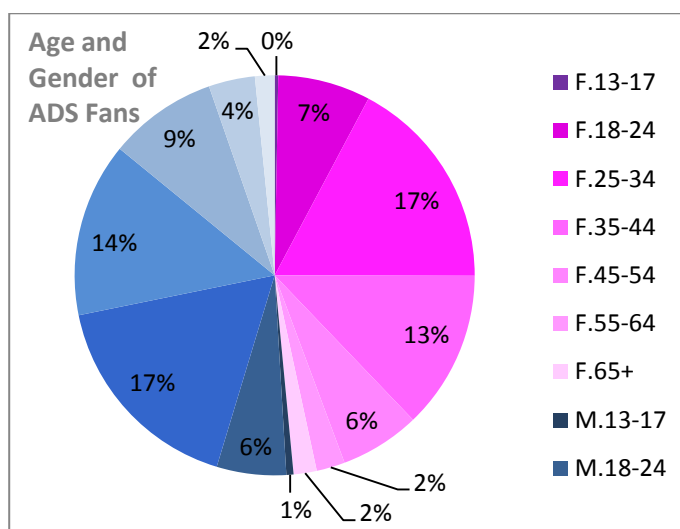
### **Social Media**

The ADS Facebook account is updated in sync with the ADS RSS feed, but with additional content, such as all new releases, events and links to news items that can be related to ADS collections. ADS also post relevant news on other popular archaeology related Facebook pages, including *Internet Archaeology*, Time Team, Wessex Archaeology, Defence of Britain and Mesolithic Miscellany. We currently have **746** (**404** in 2011/12) followers and over the past year we have seen a steady increase in Facebook users reading and sharing our posts. Facebook Analytics shows that in July 2013 the ADS page had an average daily reach of **790** people (more than our official number of 'Likes') with an average of **15** people talking about ADS daily. A maximum of **1400+** people were reached on one day in late July 2013 with **30+** people talking about ADS. The following graph shows the steady increase of the ADS Facebook page reach over the past year, the low trough relate to weekend lulls.



Facebook analytics is also a useful tool for investigating ADS user demographics. 67% of internet users are registered Facebook users, a far greater percentage than any other social media resource. The following pie chart represents the age and gender of ADS Facebook fans. The majority of these fans are in the 25 to 44 age

bracket which suggests postgraduate level professionals. This suggests that ADS could increase its user base by targeting a younger undergraduate level audience.



When Facebook analytics and Piwik statistics for the ADS website are compared a distinct correlation between the frequency of Facebook posts and people accessing ADS resources can be seen. The simplicity of clicking on a link to learn more about a post increases the traffic to the resource publicised. This suggests that the more we publicise via Facebook and other social media channels the more traffic the website will see: <https://www.facebook.com/archaeology.data.service>

Active since just over a year ago, *Internet Archaeology's* Facebook page <https://www.facebook.com/internet.archaeology> currently has **540** followers. A maximum of **1074** people were reached in June when the 'oldest calendar' article was published.

ADS has **1981** followers on Twitter (up 949 from 1032 in 2011/12). This year has seen much more activity by the ADS on Twitter. All new archive releases, events, project updates and major Grey Literature Library updates are announced via our corporate channel (ADS\_Update). ADS\_Chatter is used for less formal communications at conferences etc. Regular ADS announcements are frequently re-tweeted or favoured. A new Twitter account was opened for the Archaeology Britain App. Currently this account has not been publicised and has only **7** followers but this is expected to increase dramatically once the App is released. The Twitter announcements also see a similar correlation between the increases in people accessing ADS resources following tweets.

[http://twitter.com/ADS\\_Update](http://twitter.com/ADS_Update)  
[http://twitter.com/ADS\\_Chatter](http://twitter.com/ADS_Chatter)  
<https://twitter.com/ArchBritApp>

*Internet Archaeology* has **3757** followers on Twitter, up over 1390 followers in just the last 6 months. The account sees frequent re-tweets. *@Intarch\_Editor* is used both to promote past and existing journal content, as well as for conference tweeting, engaging in conversation and posting links about e-publishing and open access publishing more generally.

The ADS Blog 'Sound Bytes from the ADS' complements project specific blogs, such as the SWORD-ARM project blog, and is intended to be a platform for ADS staff to

write short articles discussing technical issues as well as disseminating updates on ADS research activities. Over the past year **14** articles have been published including articles on conferences and workshops, the work behind archive creation and curation, the Guides to Good Practice, the Roman Grey Literature Project, the ADS Impact Project, the benefits of SENESCHAL vocabularies as Linked Data, ADS's successes in receiving the DPC Decennial Award and our commendation at the THELMAs. Piwik web analytics of the blog site show that it has been visited by **4001** unique visitors over the last year. For the last three months (May-July) where we have comparable Piwik statistics for last year this is an increase of **18%**. The article 'The Silbury Hill Archive: the light at the end of the tunnel' by Jenny Ryder, which was aimed at a general audience, was found to be the most popular with **307** unique page views since its posting in June 2013. The vast majority of readers come to the blog via links from our Facebook page or our Twitter updates, emphasizing the importance of social media in the growth of our audience.

<http://archaeologydataservice.ac.uk/blog/>

## 6. Resource discovery

### Interoperability

The ADS continued to develop its service-orientated architecture approach throughout the year both internally and externally. The ADS hosts seven web service targets for the English Heritage (Heritage Gateway). Both the TAG and ARENA2 services have been maintained via our main interface ('external' services) demonstrating interoperability at a service level with partner institutions in the US and in Europe. We have completed our supply of UK heritage metadata to Europeana through CARARE but this will continue via LoCloud. Metadata for ADS collections has also been supplied to the Keeper's Registry, MEDIN (the Marine Environment Data Information Portal), and to a number of HE Institutional Repositories.

### Resource Discovery Metrics

Service	Number	Comments
Total Records Aggregated	1,279,965 (1,131,170)	+148,795 records mainly due to the addition of Archwilio the HER for the Welsh Archaeological Trust
External Data Sources	35 (33)	Additions are Archwilio and Parks and Gardens Data Service (also one refresh of Yorkshire Dales National Park)
Web Services Hosted	18 (21)	OAI-PMH: 5 targets with 11 sets and 6 schemas supported SOA: 13
Web Services Consumed	4 (4)	No new updates.
External Aggregators	7 (6)	Including CARARE service, NERC, MEDIN and the Keeper's Registry
ADS Triple Store	656,877 (640,000)	See Linked Data in section 7

(Previous year's figures in brackets).



## 7. Resource delivery

### User Interface developments

There have been two key developments in the ADS user interface during 2012-13. A Usage Statistics page has been added to all archive collections, which presents in graph form the 'page views', 'downloads' and 'unique visitors' for each archive. This development allows depositors to track the usage of their data. Later in 2013 this will be developed to cover the Grey Literature Library so that 'page views', 'unique visitors' and 'downloads' can also be viewed at a contractor level. Secondly, ArchSearch and the Archive search facilities have also been enhanced to allow results to be shown down to an individual file level rather than just a collection level. This, however, is currently only available for registered users adding extra value to being a registered myADS user. Considerable planning has also taken place to redesign the facet trees in Archsearch and the archive search facility which will be implemented in late 2013.

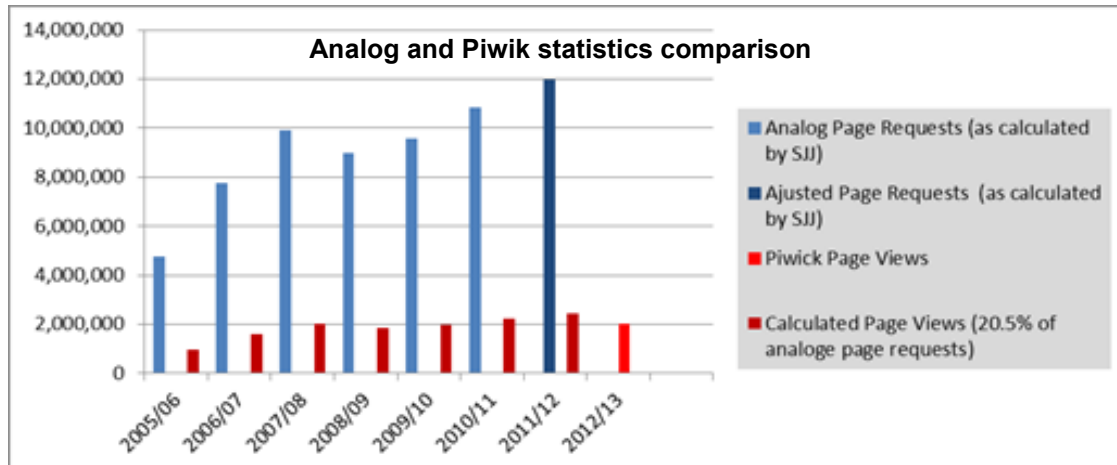
### Linked Data

The ADS now offers basic archive metadata as Linked Open Data, and is currently integrating the process of Linked Data creation and alignment into the standard archiving workflow of the digital archivists. ADS Linked Open Data aligns the metadata from authorities such as the Ordnance Survey, Geonames, the Library of Congress Subject Headings, NERC, and DBpedia. These outward links to other data providers gives the ADS Linked Open Data a 5 star Open Data Rating. Usage wise, from August 2012 to July 2013 there were 41k requests made to the SPARQL endpoint/linked data, averaging about 3k requests per month. The requests were varied, including SPARQL queries directly against the triple store to requests for HTML representations of the archive metadata:

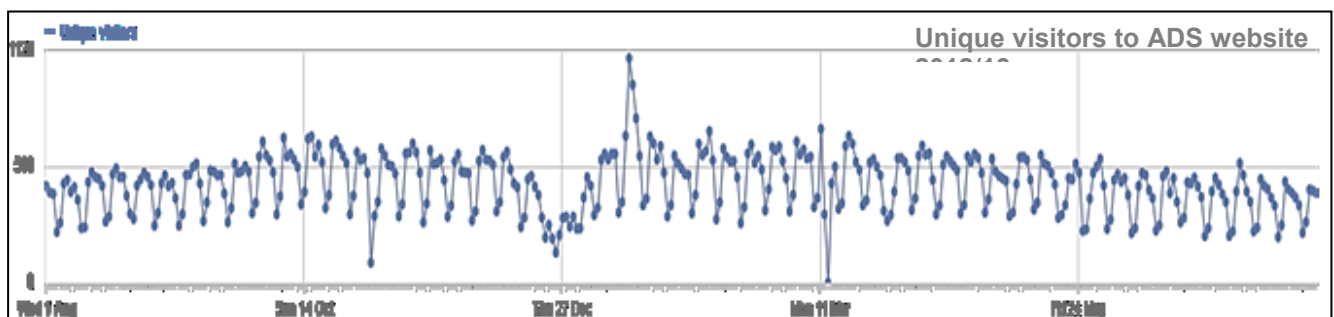
<http://data.archaeologydataservice.ac.uk>

### Access statistics

The total number of page views for 2012/13 was **2,018,710**. This is significantly lower than the 13 million+ 'adjusted page requests' of 2011/12. This is the result of 2012/13 being the first full year where the web metrics application Piwik has been applied to the ADS website. Previous Analog statistics recorded the number of requests made to the ADS servers but requests can be a misleading means of calculating usage figures as a single web page may send multiple requests to the server. The ADS homepage sends over 25 requests due to the content of the page. Requests are also affected by the user's computer settings as fewer requests are sent if the computer has previously recorded the requests. To provide a rough comparison to previous years statistics the graph below was compiled to represent the year on year growth of ADS website usage. Estimated page views for previous years were calculated from the few months where we have Piwik stats for May-July in both 2012 and 2013 and the overall yearly adjusted page requests from 2013, but these figures are basic estimates.



Piwik web metrics provide a much more sophisticated tool that can identify unique visits to the website by real users, undertaking real research functions. The following graph presents the usage patterns for 2012/13 based on unique visitors to the ADS website. The regular weekend dips in usage can be clearly seen, as well as a reduction of visits during the Christmas period reflecting general work patterns. A slight and more gradual reduction over the summer months can be seen to be a direct result of the high proportion of academic users of the site. A large peak can also be seen in January 2013 which reflects the release of the back issues of *The Archaeological Journal*. The two low points are server-related issues which prevented statistics from being logged. When unique visits and page visits are looked at in detail on a monthly scale events on a smaller scale are more visible.

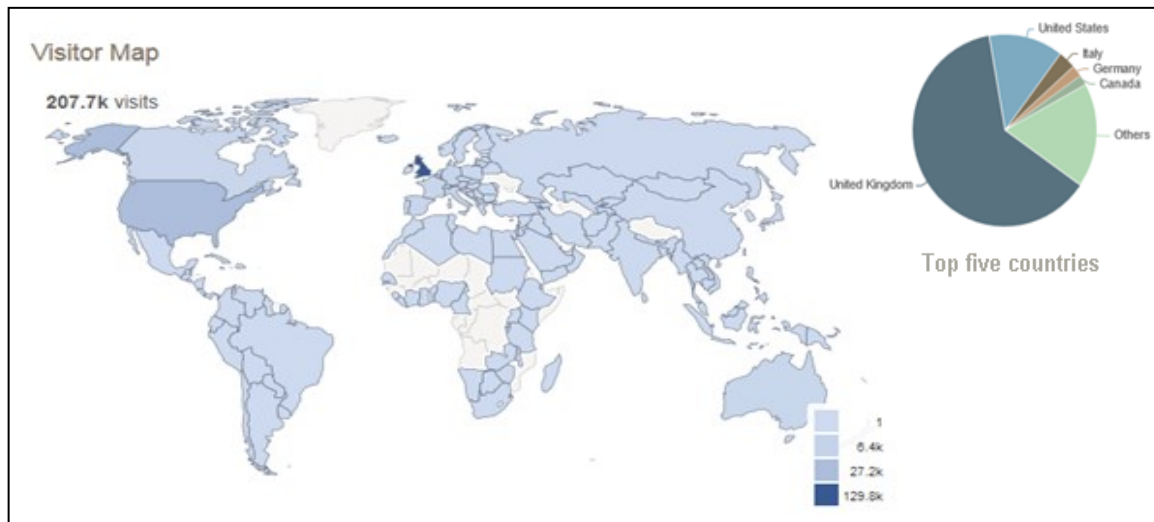


The following figures represent overall usage of the ADS website in 2012/13 and provide a sample of some of the metrics that Piwik records.

<b>207,735</b>	Visits to the site (one individual with multiple page views and actions)
<b>35%</b>	Visits that bounce (left the website after one page)
<b>6 min 8s</b>	Average visit duration
<b>10.7</b>	Average actions (page views, downloads, outlinks and site searches) per visit
<b>2,022</b>	Max actions in one visit
<b>94,898</b>	Returning visits
<b>46%</b>	Of all visitors are return visitors
<b>30%</b>	<b>Return visit bounce</b>
<b>8min 22s</b>	<b>Average return visit duration</b>
<b>13.2</b>	Average actions per return visit

<b>2,018,710</b>	Page views,
<b>997,734</b>	Unique page views
<b>65%</b>	Of all visits view two or more pages
<b>174,717</b>	Downloads,
<b>152,861</b>	Unique downloads
<b>89,739</b>	direct entries, <b>43%</b> of visits
<b>52,055</b>	from search engines, <b>25%</b> of visits
<b>65,938</b>	from websites, <b>32%</b> of visits

The above figures allow us to identify that a large percentage of our users are loyal return visitors that use ADS repeatedly and regularly. A significant number (42%) of ADS users directly enter the site through typing our address into their browser or from bookmarking our site, and another large percentage (32%) follow links from other websites. We can drill down into these statistics to see where publicity and advertising are having the most effect on our daily visitors. Piwik statistics also allow analysis of where visitors are accessing the website from.

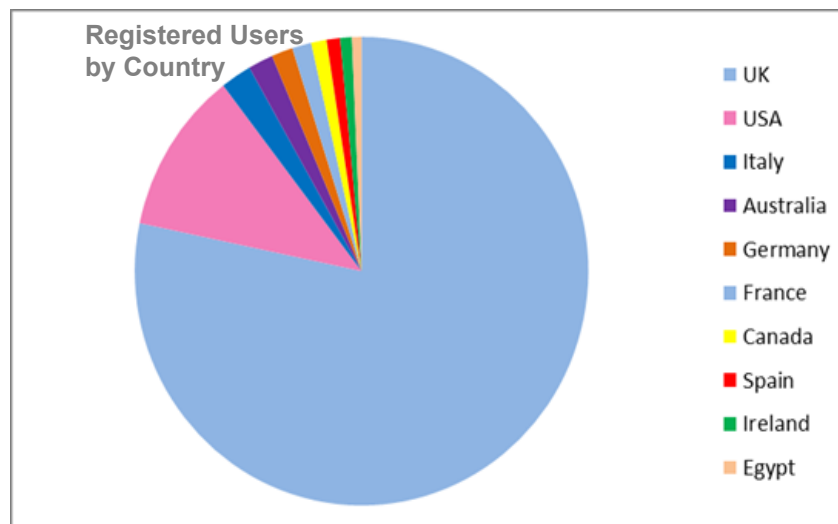


Piwik allows for much more detailed statistics to be gathered for individual collections or pages. Across 2012/13 the top ten resources have been the following:

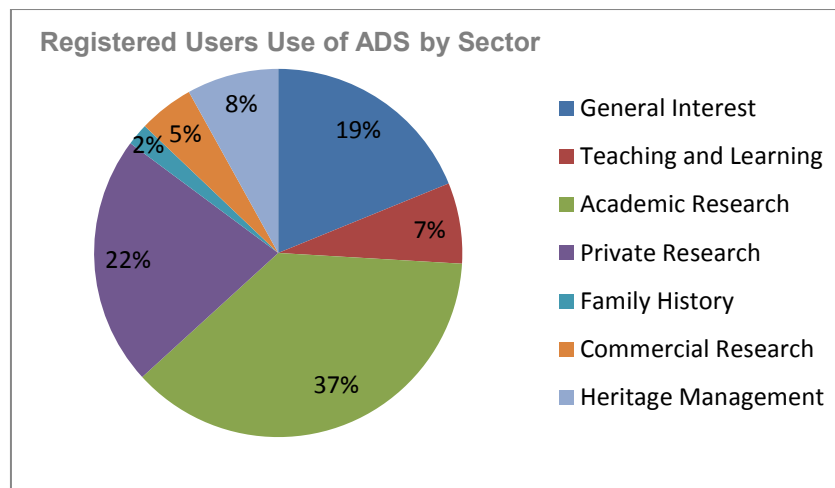
Page	Pageviews	Unique Pageviews	Bounce Rate	Avg. time on page	Exit rate
Roman Amphorae: a digital resource <a href="http://dx.doi.org/10.5284/1000021">http://dx.doi.org/10.5284/1000021</a>	353943	219987	17%	41s	5%
Grey Literature Library <a href="http://archaeologydataservice.ac.uk/archives/view/greylit/">http://archaeologydataservice.ac.uk/archives/view/greylit/</a>	136278	70764	37%	1min 18s	18%
Proceedings of the Society of Antiquaries of Scotland <a href="http://dx.doi.org/10.5284/1000184">http://dx.doi.org/10.5284/1000184</a>	83845	43346	13%	1min 13s	4%
Defence of Britain <a href="http://dx.doi.org/10.5284/1000327">http://dx.doi.org/10.5284/1000327</a>	88101	41789	25%	1min 13s	20%

Medieval Archaeology <a href="http://dx.doi.org/10.5284/1000320">http://dx.doi.org/10.5284/1000320</a>	45274	24868	29%	52s	19%
The Archaeological Journal <a href="http://dx.doi.org/10.5284/1018054">http://dx.doi.org/10.5284/1018054</a>	31930	16273	34%	1min 5s	19%
CBA Research Reports <a href="http://dx.doi.org/10.5284/1000332">http://dx.doi.org/10.5284/1000332</a>	22329	14982	34%	1min 9s	24%
Oxford Expedition to Egypt: Scene-details Database <a href="http://dx.doi.org/10.5284/1000009">http://dx.doi.org/10.5284/1000009</a>	19992	11307	26%	1min 11s	13%
London Archaeologist <a href="http://dx.doi.org/10.5284/1000168">http://dx.doi.org/10.5284/1000168</a>	15665	7555	19%	47s	10%
Discovery and Excavation in Scotland <a href="http://dx.doi.org/10.5284/1000284">http://dx.doi.org/10.5284/1000284</a>	9395	4991	22%	1min 11s	22%

**Registered users** for the new website have now reached **3571** compared with 2654 this time last year, a substantial figure especially when bearing in mind that registration is entirely optional. Registered users are predominantly from the UK as shown in the pie chart below.



Of the **3571** registered users 77% did not disclose a location. The percentages of registered users who are not choosing to provide location information suggest a refresh of the registration process is needed to encourage users to answer the relatively few questions currently asked in order to allow ADS to take advantage of this information. The following pie chart presents the primary use of ADS data as recorded by ADS Registered Users.



There has been a slight decrease in the relative proportion of academic research and commercial research from last year, but increases in private research, family history, general interest and teaching and learning, suggests that the new users who have registered over the past year have primarily been from these sectors, indicating an increase in visibility to these groups, possibly due to the new web interface.

### **Helpdesk**

As well as the usual informal feedback channels the ADS Helpdesk handled 147 requests for assistance in 2012/13. In keeping with previous years there is no significant pattern in the queries that would inform us that major changes were needed in a particular resource.

### **Selected user comments**

The following selected user comments have been received through the Helpdesk email, account and social media channels. More user feedback can be found in the ADS Impact Project Report.

*"I'm certainly finding this resource most useful and it is already causing some discussion amongst my associates. I have also found many other of the resources in ADS very useful and I would like to thank you and your colleagues for producing this most impressive resource".* Philip Charles Davis, Researcher, January 2013.

*"Just found out about this great resource today - Wish more museums knew about Archaeology Data Service".* Nick Poole, CEO Collections Trust, April 2013.

*"Had an amazing visit at @ADS\_Update this afternoon, fantastic people and an amazing organization!".* Katy Myers, PhD Researcher, July 2013.

*"ADS are doing excellent work in assuring this exact thing. Digital archaeological good practice is vital".* Archaeology for All Twitter Account, CBA, February 2013.

*"we have had considerable success in the past in promoting the Archaeology Image Bank within our teaching sessions and your resource has proved extremely popular".* Angela Horn, Newcastle University Librarian, March 2013.

*"Thank you for the advice. I followed it and found exactly what I wanted".* Greta-Mary Hair, Researcher, June 2013.

*"Great post by Jenny Ryder @ADS\_Update on data curation, fixing an excavation DB so that others can use it".* Russell Allen Willem, Digital Archaeologist, July 2013.

*"I just wanted to thank you for putting together such a helpful site ([http://guides.archaeologydataservice.ac.uk/g2gp/CreateData\\_1-5](http://guides.archaeologydataservice.ac.uk/g2gp/CreateData_1-5)) for my research!".* Gloria Chalmers, Researcher, May 2013.

*"can I say as a commercial contractor how valuable it is to be able to direct prospective clients towards the grey literature library so they can see examples of projects that have been undertaken for others".* Derek Hall, Contract Archaeologist, November 2012.

*"Dalle parole ai fatti...@ADS\_Update: ADS announces that its Grey Literature Library has reached over 20,000 reports".* Gabriele Gattiglaï, Academic, May 2013.

*"Congratulations @ADS\_Update making 20K previously unpublished reports available online is quite an achievement".* English Heritage Archaeology Twitter Account, May 2013.

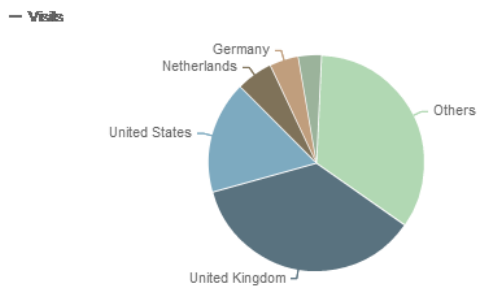
*"Thanks to @ADS\_Update for getting our first OASIS entries and Grey Literature Reports online. Plenty more at various stages in the pipeline!".* Addyman Archaeology, Contract Archaeologist, May 2013.

### **Internet Archaeology**

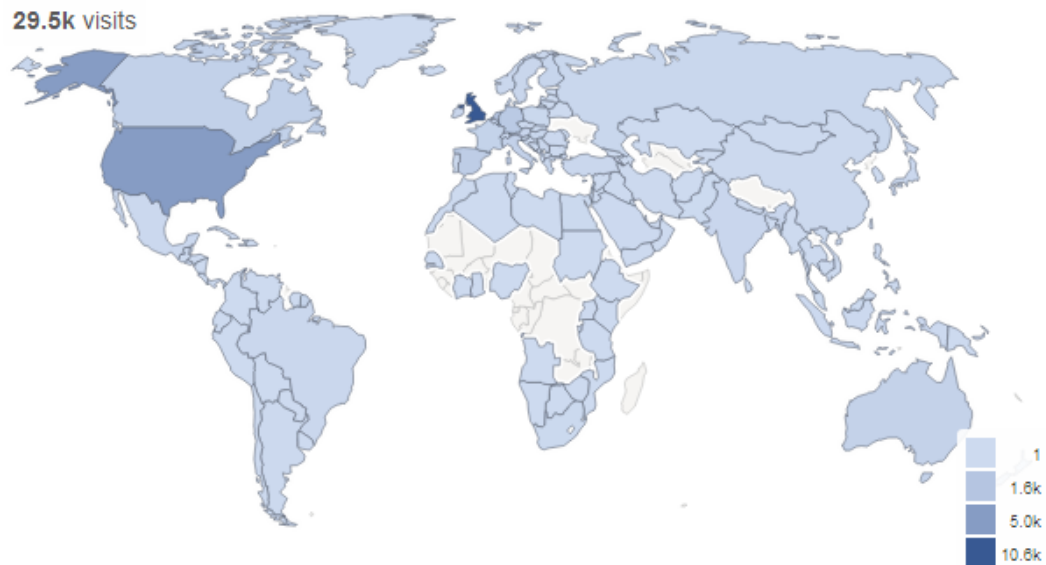
The journal has 80 institutional (overseas) subscribers over and above the 138 UK HE/FE institutions who have signed up for access under the JISC licence. In addition, the journal has 568 individual subscribers, the majority of whom have purchased access to single articles.

With content in all issues up to and including 21 being made Open Access as of January 2013, there did appear to be a considerable jump in usage of *Internet Archaeology*. However, based on the experiences of ADS, *Internet Archaeology* has also chosen to switch from Analog stats to Piwik, and so a fuller, more meaningful picture of reader activity and usage can only be given when that has been completed (by the end of 2013). However, the following information can be ascertained where Piwik has already been activated (for recent content, since January 2013 only):

- 44% of visits are via direct entry (typing url into the address or via bookmarks)
- 44% of visits are from returning visitors
- 3mins 12s is the average length of visit for returning visitors
- The majority of readers come from UK, USA, the Netherlands and Germany.



### Visitor Map



*Selected author comments* (feedback from authors obtained in on-going anonymous survey (sent out after the publication of each article).

“The whole process was excellent and, in particular, I would like to note the sterling work done on promoting the article in the social media. A real success. Well done”

“[The editor] was extremely prompt and professional”

“The paper has already, less than a week after publication, generated several interested email enquiries to me from UK, USA and Australia. The enquiry from USA was from the human evolution correspondent of Science. It is clear that *Internet Archaeology* is able to disseminate papers rapidly and effectively to a global readership.”

## 8. Partnerships and collaboration

### United Kingdom

- We met with representatives of AHRC in London on 22nd July 2013 to discuss our ongoing role as AHRC’s mandated archive for archaeological data, and to develop procedures for the costing of advice and archiving, as well the notification of awards to ADS.

- We continue to support NERC and MEDIN, including contribution of metadata to the NERC Data Catalogue Service (DCS) and MEDIN data portal, and as an accredited Data Archive Centre (DAC) we have continued to archive marine archaeological data sets.
- We have had further discussions with the Heritage Lottery Fund about a project to assess the sustainability of the digital outputs of their recent funding programme.
- We have been delighted to have the opportunity to work with The British Library to develop our first iPad app: Archaeology Britain. The collaboration attempted to present the archaeology of Britain in an interesting and accessible manner on the iOS platform. Unique and rare content was provided from The British Library archives, and ADS content was linked to add context to some of the most significant archaeological sites in Britain. Additional content was kindly provided by external organisations and individuals to hopefully present the archaeology of Britain in a rarely seen perspective.
- We have continued our involvement in a number of UK networks of digital archives, including the Digital Preservation Coalition and the Research Data Management Forum. Under the auspices of the DPC, representatives of ADS, English Heritage, RCAHMS, and RCAHMW held a follow-up meeting of the Bedern Group in York on 22nd August 2012, and have subsequently attended a Bedern group meeting hosted by RCAHMS in Edinburgh on the standards and procedures for the archiving of laser scanning data.
- We have continued to work with other heritage information bodies via FISH (the Forum for Information Standards in Heritage) and HEIRNET (Historic Environment Information Resources Network).
- We completed our work with English Heritage and ALGAO on 'Informing the Future of the Past 2' which is now delivered via a wiki hosted by ADS.
- We continue to be an active member of the Archaeological Archives Forum and developed an updated map of museum collecting areas.
- We have continued to work with English Heritage, the Royal Commission on the Ancient and Historical Monuments of Scotland, and ALGAO to maintain OASIS, and have submitted a project design for HERALD, a user consultation for the system which will replace OASIS, potentially by 2017.
- We continue to host the online library catalogue of the Society of Antiquaries of London, as well as their online catalogue of prints and drawings.
- During 2012-13 we transferred the hosting of the national database of the Parks and Gardens Partnership Trust to a commercial provider, although we will continue to host their target for the Heritage Gateway. We have taken steps to release a final snapshot of the database at the point at which responsibility for hosting was transferred.
- We have continued to work with Ubiquity Press and the *Journal of Open Archaeological Data* to act as a trusted digital repository for the data sets underlying data papers, and have begun work on the UCL-led PRIME project to share archival metadata for archaeological datasets with the UCL institutional repository.



## **Europe**

- The ADS has had a very positive year of transition and expansion within its European partnerships. Following on directly from the successful completion of the CARARE project in January, ADS began the LoCloud project in March. LoCloud includes 32 European partners, some of whom were partners with us in CARARE and other projects, but many are new to us. Of particular interest, more than one-third of the partners are from countries in Eastern Europe, and participation in the project will allow us to improve our contacts for continued involvement in this region. As the designated aggregator for LoCloud in the UK, participation in LoCloud will allow ADS to strengthen domestic partnerships as well.
- Following on directly from the successful completion of the ACE project in October, ADS began the NEARCH project in June. NEARCH has brought many of the ACE partners back together, but with a shift in focus from evaluating current archaeological practice in Europe, to proposing new ways of working and interacting. As such, involvement in NEARCH will help broaden the scope of our partnerships in Europe, as many of the objectives involve collaborations within the arts and culture community. As in ACE, ADS will host another series of researchers throughout NEARCH, to build strong connections with individuals within organisations, and facilitate better partnerships and collaboration in future.
- ADS began work on the ARIADNE project in February, which represents our most significant level of collaborative commitment with European partners to date. Charged with nothing less than building an infrastructure for archaeological data across Europe, the 24 partners in ARIADNE will be working closely together across 17 workpackages, both on a theoretical and technical level. As Deputy Coordinator for ARIADNE, ADS will be involved in all aspects of this important collaboration.
- ADS continued to host representatives from other European countries during the year, including two researchers from Adam Mickiewicz University in Poznań, Poland in September as our final visitors from the ACE project. ADS also hosted Felix Schäfer from IANUS in June as part of ARIADNE. As IANUS has been established to create a National Research Data Centre for Archaeology and Ancient History in Germany, Felix came to learn about how we do things at the ADS, and share the progress and ideas behind how IANUS will be implemented.
- We have been sub-contracted by the Brussels heritage agency to provide the European partners in the ARCHES project (which is concerned primarily with museum archives) with a wiki for the development of their standards guidance.

## **North America**

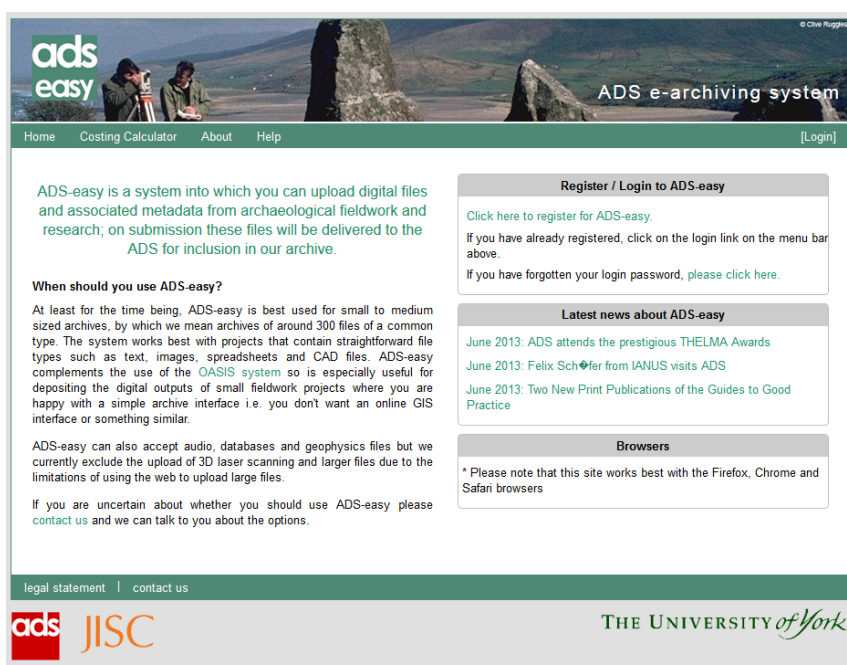
- The ADS continues to work closely with the Digital Antiquity consortium in the United States, and Julian Richards is a member of the Board of Directors, participating in quarterly meetings via Skype.

## **Australia**

- The ADS is an international partner in FAIMS (Federated Archaeological Information Management System), and as a member of the FAIMS Board, Julian Richards reviewed the ongoing development of the FAIMS mobile platform throughout the year, as well as supporting the project in trying to secure follow-on funding.

## 9. Research and development

In the JISC-funded **SWORD-ARM** project we worked with a number of HE institutions to refine and enhance ADS's ingest and charging process by creating a SWORD client to streamline and automate deposit. This will strengthen the ADS data management systems and business infrastructure, and deliver real benefits to depositors in terms of their ability to deposit data, create and validate metadata, engage in selection and retention, manage multiple deposits and, crucially, to manage cost estimate and charging processes. SWORD-ARM therefore represents an enhancement to ADS's role as a discipline-based repository, and an embedding of our role in a number of HE institutions. SWORD-ARM will significantly improve the ability of ADS to handle increasing volumes of data and to charge directly for deposit. It will improve the service offered to our depositors in terms of cost transparency, ease of use and speed of deposit.



The JISC-funded **Value and Impact of the ADS** project analysed and quantified the economic value of digital collections held by the ADS. It also surveyed stakeholder perceptions of the value of the ADS. We explored how actual and perceived value of the ADS collections were aligned or could be enhanced with the ultimate objective of improving their prospects for sustainability. The analysis of value included qualitative as well as quantitative measures and economic as well as non-economic factors. We explored a range of methods and sources of data including investigating data from 1996-2011 on the growth of collections and users at ADS and how return on investment grows with the collections. The perceptions of all relevant stakeholders have been explored via surveys, selective interviews, and a focus group/workshop. Although a number of studies have looked at methods of determining cost benefit and broad indicators of value, there remain significant challenges in establishing baseline data for measuring this in any quantitative way and there are still only a relatively small number of socio-economic studies focussing specifically on the impact of long-term digital preservation and data sharing via data services or research data infrastructure. This value and impact study therefore has relevance

well beyond the archaeological community. A focus of the project was disseminating our findings and recommendations to the wider JISC and research data communities. We described our methods and findings in a series of dissemination activities to stakeholders via newsletters, conference presentations, and a project workshop. We critically evaluated our project and lessons learnt and formulated recommendations, advice and guidance to the wider JISC and research data communities that has been disseminated via a summary factsheet and presentations at relevant JISC events and conferences such as the IDCC conference.

Overall, we found that:

- The investment value of ADS is around £1.2 million per annum. The direct investment in ADS by its funders is c. £600,000 per annum and we found a similar amount is invested indirectly by depositors (in terms of the time and effort they invest in depositing collections). This is the first time the value of depositors indirect investment has been calculated, and it emphasises their importance as stakeholders in the service.
- The direct use value of ADS to its user community is around £1.4 million per annum at current prices and levels of activity – more than double the operating budget.
- Willingness to pay is an expression of value by the users, who reveal that they value their access at around £1.1 million per annum. However, it was very clear that the capacity of many users to pay is severely constrained, and the free-to-access model of ADS is important in achieving the impact it does.
- When capacity to pay is limited, the amount that users would be willing to accept in return for giving up their access to ADS for a year can be a better indicator of the value they place on it. Looked at this way, ADS data and services are worth around £7.4 million per annum to its users.
- The contribution of ADS to its user community can also be seen in terms of its impact on their research, teaching and studying efficiency, and we found that the efficiency impacts of ADS might be at least £13 million and could be as much as £58 million per annum.
- Exploring scenarios relating to the impacts of ADS data and services on returns to investment in the data held, we found that ADS facilitates additional use which may realise additional returns to the research and data creation/collection activities underpinning it that, to an approximation, could be worth between £2.4 million and £9.7 million over thirty years in net present value from one-year's investment – a 2-fold to 8-fold return on investment.

After the kick-off meeting in March in Swindon, work began on Semantic ENrichment Enabling Sustainability of arCHaeological Links (**SENESCHAL**). A 12 month AHRC Follow-on Funding project lead by the University of South Wales Hypermedia Research Unit, SENESCHAL brings the ADS into collaboration with the Bespoke HER User Group, English Heritage, RCAHMS and RCAHML, and builds on outcomes and tools from the previous AHRC funded STAR and STELLAR projects. SENESCHAL seeks to address the current lack of vocabulary control (with unique identifiers) hindering the full potential of the resulting Linked Data. The main focus of SENESCHAL will be to create two important new resources. The first will be to convert all the main controlled vocabularies used by English Heritage, RCAHMS and RCAHML into SKOS-based RDF and to make the result freely available. To help facilitate the use of the new vocabularies, the second resource will be a lookup widget to be embedded in existing web-based recording systems. ADS plans to incorporate the products of SENESCHAL into both our internal CMS and within the

OASIS system, allowing easier and more consistent use of controlled vocabularies across key areas of the preservation and dissemination process.

**CARARE**, a best practice network funded by the European Commission's ICT Policy Support Programme was brought to a successful conclusion in January. CARARE brought together heritage agencies and organisations, archaeological museums, research institutions and specialist digital archives from all over Europe to establish a service to make digital content for Europe's unique archaeological monuments and historic sites discoverable through Europeana. As well as leading the CARARE Sustainability Working Group, we are members of the Europeana Council of Content providers (CCPA) Sustainability Working Group which has a remit to look at this topic for Europeana and all its constituent projects, and the CCPA Legal Working Group. In addition to overseeing the drafting of the CARARE sustainability plan, which was commended by the project officer, ADS was a content provider, and now over 40,000 of our metadata records are now discoverable within Europeana, including the *Grey Literature Library*, the *England's Rock Art* archive, the 3D PDF content from the *Virtual Amarna* archive, and the *Image Bank* archive.

After the kick-off meeting in March in Oslo, work began on Local Content in a Europeana Cloud (**LoCloud**). A three-year EU Competitiveness and Innovation Framework Programme (CIP) funded best practice network, LoCloud is coordinated by the Norsk Kulturråd and is made up of 32 partners across 26 European countries. LoCloud follows on directly from the aforementioned CARARE project and EuropeanaLocal, another recently completed best practice network, funded under the e-Contentplus programme, which played an important role in ensuring the digital content provided by Europeana's local and regional cultural institutions were represented in Europeana. LoCloud will combine the metadata mapping methodology of CARARE with cloud computing technology, to help small to medium sized heritage organisations make their contents discoverable within Europeana. In addition to providing more content to Europeana through our own holdings, ADS is the aggregator for the UK, and is already in the process of identifying potential organisations that may benefit from participation in LoCloud. ADS will be hosting many of the content providing partners in York for a technical workshop in September, and as leaders of the dissemination workpackage, will be organising future workshops at international conferences to promote the results and services available through LoCloud.

After the kick-off meeting in February in Rome, work began on Advanced Research Infrastructure for Archaeological Dataset Networking (**ARIADNE**). A four-year EU FP7 Infrastructures funded project, ARIADNE is coordinated by PIN at the University of Florence and ADS (Deputy Coordinators), and is made up of 24 partners across 16 European countries. ARIADNE has the ambitious goal of bringing together and integrating existing archaeological research data infrastructures, so researchers can use the various distributed datasets and new and powerful technologies as an integral component of the archaeological research methodology. As Deputy Coordinators, ADS has been heavily involved in the overall planning and management of the project across all 17 workpackages. Tasks begun in other workpackages include gathering data for a literature survey of all the existing metadata schemas in the archaeological domain, identification and assessment of good practice across the network, and supporting the University of South Wales in their work on SKOS thesauri, semantic annotation and linking, and Natural Language Processing. As leaders of the transnational access and training workpackages, ADS

has begun coordinating the Web presence for the online transnational access providers, and the selection of participants for physical transnational access at PIN and Consiglio Nazionale delle Ricerche (CNR) in Italy, and the ATHENA Research and Innovation Centre (ATHENA RC) in Greece.

After the kick-off meeting in June in Paris, work began on New Scenarios for a Community-involved Archaeology (**NEARCH**). A five-year EU Culture Programme funded project, NEARCH is coordinated by the Institut National de Recherches Archéologiques Préventives (INRAP) in France, and is made up of 14 partners, across 10 European countries. NEARCH follows on directly from the recently completed ACE project, which 'identified a cultural crisis and a crisis of values and ideas that outlined the EU agenda 'European Modernity'. NEARCH aims to assess the implications of the crisis in the fields of Archaeology and Heritage, and to propose new ways of working and interacting. The project will also explore the different dimensions of public participation, as well as the multi-scalar significance of archaeological heritage intertwined with different processes underway in today's Europe'. Within NEARCH, ADS will primarily be involved in working with the organisers of the digital 'Day of Archaeology' to expand participation throughout Europe, developing mobile technologies to help the public engage with historic records and resources and contributing to the production of digital publications about archaeology.

## 10. Service management

After investigation of a number of options for independent legal status it was agreed that the optimal status for ADS was to remain as a separate cost-centre of the Department of Archaeology, within the University of York. We accordingly signed a formal agreement with David Duncan, the University Registrar, which codified the financial and management status of ADS, and also covered succession planning for the replacement of the Director. The agreement was approved by the ADS Management Committee at its September 2012 meeting. Our ejournal *Internet Archaeology* has always shared the same technical infrastructure as the ADS and has been integrated within the same University of York cost centre but we decided to take the opportunity to formalise the integration and to include *Internet Archaeology* within ADS reporting via the Management Committee, and it is now incorporated within the ADS financial accounts.

During the year 1 August 2012 - 31 July 2013 the ADS had total income of £670,215 and total expenditure of £980,018, including £21,000 which was transferred to reserves. The high expenditure was planned in order to make use of the significant income which had been received in advance of work done in 2011-12. An additional £44,542 was received as the ADS share of University of York overheads, but £15,984 of overhead income was set aside as the ADS contribution to EU projects. A credit balance of £516,324 had been carried forward from the 2011-12 financial year, leaving a credit balance of £245,080 to carry forward to 2013-14. The majority of this still relates to income received in advance of work undertaken. Additionally, £186,743 is now held in the ADS reserves account. The full accounts for 2012-13 are available as a separate document.

The internal management team held quarterly meetings to review finances, and all ADS staff met for project updates on a monthly basis, with separate meetings of the curatorial and technical staff to resolve specific issues. On 23 January 2013 we held an all staff Away Day at Bedern Hall to inform the development of the ADS five-year

strategic plan for 2013-18, which was approved by the Management Committee in March 2013.

There have been a number of staff changes during the year with several old hands leaving and new faces joining. This will be the last Annual Report to which Tony Austin, Systems Manager, contributes, as he takes redundancy in August 2013, as part of the voluntary early retirement package in which he went down to part-time working 3 years ago. Tony is one of the longest serving members of ADS staff, having joined us first on placement from his MSc in Staffordshire University in 1998, before being appointed Computing Officer and then as Systems Manager from 2004. The role has changed much over recent years, with many services being sub-contracted to York University Computing Service or to UKDA, and Tony will not be replaced. Michael Charno now leads the Systems Group and will take overall responsibility for the ADS servers, whilst Tony's original preservation brief is now shared between the Digital Archivists.

At the end of December Stuart Jeffrey left us to take up the post of Research Director at the Digital Design Studio, within the Glasgow School of Art in Glasgow University. Stuart joined ADS as User Services Manager in February 2006, and became Deputy Director (Access) in 2011. As part of the ADS restructuring the opportunity was taken to split Stuart's role into two from January 2013: Holly Wright was promoted to become European Projects Manager, and Katie Green joined us as Communications and Access Manager.

Paul Young also returned to ADS in August 2012 after a spell of development work at the University of York's Digital Library. Paul had been responsible for the Collections Management Systems as part of ADS+ and so was well placed to return to CMS development within SWORD-ARM. We also welcomed two further new members of staff. With funding from English Heritage Jenny Ryder was appointed on a 12-month fixed term contract commencing September 2012 to work on the preparation of the Silbury Hill digital archive which will be split between the ADS and the English Heritage Archive. Finally, Neil Gevaux was awarded a 12-month IfA HLF Workplace Learning Bursary and has worked jointly between ADS and Internet Archaeology from November 2012

## **Appendices**

### **(A) STAFFING LIST**

J D Richards, Director  
T Austin, Systems Manager  
M Charno, Applications Developer  
T Evans, Digital Archivist  
N Gevaux, Digital Archivist  
J Gilham, Digital Archivist  
K Green, Communications & Access Manager (from January 2013)  
C Hardman, Deputy Director (Collections)  
S Jeffrey, Deputy Director (Access) (until December 2012)  
R Moore, Digital Archivist  
K Niven, Digital Archivist  
D Page, Administrator  
J Ryder, Digital Archivist  
J Winters, *Internet Archaeology* Editor  
H Wright, European Projects Manager  
L Xia, Applications Developer  
P Young, Web Developer

**(B) ADS MANAGEMENT COMMITTEE MEMBERSHIP**

Met on 26 September 2012 and 11 March 2013

Corresponding members are indicated with an asterisk

Tim Darvill OBE	Chair, Bournemouth University
Mike Heyworth MBE	Vice-Chair, Council for British Archaeology
Jeremy Huggett	Vice-Chair, University of Glasgow
Diana Murray	Vice-Chair, RCAHMS
Gail Lambourne	Arts and Humanities Research Council
Peter Halls	Association for Geographic Information
Gail Falkingham	Association of Local Government Archaeological Officers
Barry Cunliffe*	British Academy
Dan Pett*	British Museum
Nick Poole	Collections Trust
Marion Meek*	Dept of the Environment for Northern Ireland
William Kilbride	Digital Preservation Coalition
Keith May	English Heritage
Mike Evans	English Heritage (NMR)
John Walker	Federation of Archaeological Managers and Employers
Armin Schmidt	GeodataWIZ
Anthony Sinclair	Higher Education Academy
Noel Fojut	Historic Scotland
Edmund Southworth	Manx National Heritage
Mark Thorley	Natural Environment Research Council
Gary Lock*	Oxford University
David Thomas	RCAHMS
Ortrun Peyn	Society of Antiquaries of London
Simon Gilmour	Society of Antiquaries of Scotland
Paul Miller	The Cloud of Data
Clive Orton	University College London, Institute of Archaeology
Vince Gaffney*	University of Birmingham
Graeme Barker	University of Cambridge
Richard Higgins	University of Durham, Archives and Special Collections
Nick Ryan	University of Kent at Canterbury
Mark Gillings*	University of Leicester
Sam Turner	University of Newcastle
Graeme Earl	University of Southampton, Dept. of Archaeology
Steve Mills*	University of Wales - Cardiff, School of History and Archaeology
John Local	PVC, University of York



**(C) INTERNET ARCHAEOLOGY ADVISORY COMMITTEE**

<b>Name</b>	<b>Institution</b>
Prof Mark Aldenderfer	University of California, Merced
Mr Tony Austin	University of York
Mr David Bowsher	MOLA
Prof Sir Barry W Cunliffe	University of Oxford
Dr Graeme Earl	University of Southampton
Harrison (Nick) Eiteljorg II	Center for the Study of Architecture
Dr Mike P Heyworth	Council for British Archaeology
Dr Jeremy Huggett	University of Glasgow
Dr Ian Johnson	University of Sydney
Dr Hans Kamermans	University of Leiden
Dr Francis P. McManamon	Executive Director, Digital Antiquity, Arizona State University
Prof Franco Niccolucci	University of Florence
Dr Alistair Paterson	University of Western Australia
Prof Julian D Richards	University of York
Pete Rowsome	Freelance consultant/ex-MoLAS
Dr Seamus R Ross	University of Toronto
Dr Claire Smith	Flinders University
Roland Smith	-
Prof Dean R. Snow	Penn State
J Stephen Town	University of York
Prof Dr Frank Vermeulen	University of Ghent
Ms Judith Winters	University of York

## **(D) NEW COLLECTIONS RELEASED**

### **Cheshire Historic Environment Characterisation Project**

The Cheshire HLC project recorded the visible evidence of human history, which forms the modern landscape. This has been achieved by identifying landscape attributes from a range of historical maps. These attributes are categorised into a series of Groups, Types and Sub-types and their extent mapped and analysed using a Geographic Information System (GIS).

### **Hampshire Historic Environment Characterisation Project**

The project aimed to map and record the Historic Character of the county of Hampshire. The project is a further development upon the HLC studies that have been undertaken across the country since 1992.

### **Managing Landscape Change: A multi-disciplinary approach to future mineral extraction in North Yorkshire.**

North Yorkshire is a rich area for mineral resources and these can only be worked where they are found. As this may be in environmentally-sensitive or designated landscape areas, this project looks at the need to manage impacts to an acceptable minimum in the planning and operating of extraction sites.

### **The Bosworth Battlefield Project**

The digital archive (reports and GIS) of the HLF funded project by Glenn Foard on behalf of the Battlefields Trust to undertake an assessment of the current state of knowledge of Bosworth battlefield.

### **South Yorkshire Historic Environment Characterisation Project**

The project aimed to map and record the Historic Character of the districts of Barnsley, Sheffield, Rotherham and Doncaster, which make up the former county of South Yorkshire. The project is a further development upon the HLC studies that have been undertaken across the country since 1992.

### **Star Carr Archives Project**

An online database of information and photographs relating to the finds from the early (1950s and 1980s) excavations at Star Carr.

### **Isles of Scilly Historic Environment Research Framework**

A series of reports providing a comprehensive overview of the Islands from the Palaeolithic to the present day created by Cornwall Council.

### **Magnetic Moments in the Past**

An online database of all archaeomagnetic studies undertaken in the UK and Isle of Man, compiled by the University of Bradford and English Heritage.

### **Clodgy Moor Environs Lithic Recording Project**

Recording sheets and data from a project recording and cataloguing around 8,000 prehistoric artefacts from the area around Clodgy Moor, Paul in Cornwall.

### **Neo-Assyrian Palace Ware**

The results of the synthetic archaeological and archaeometric analysis of Assyrian Palace Ware, a 8-7th century B.C.E. ceramic drab-ware, to evaluate its social function and semiotic significance across the Neo-Assyrian imperial landscape.

### **Update of the ACE Portal for Publications and Outputs**

Two new reports have been added to the downloads section of this archive on Archaeology in Contemporary Europe.

### **Electricity Transformer House, Ocean Terminal, Southampton**

This archive, part of the Southampton's Designated Archaeology Collections Programme, was an archaeological building survey of the former Electricity Transformer House, Ocean Road, Eastern Docks, Southampton, by Southampton City Council Archaeology Unit.

### **Chapel, Royal South Hants Hospital, Fanshawe Street, Southampton**

This project, part of the Southampton's Designated Archaeology Collections Programme, was an archaeological building survey of a hospital chapel built in 1857-1858 to designs by local church architects Hinvie and Bedborough, by Southampton City Council Archaeology Unit.

### **Bald Faced Stag, 36 Edward Street, Southampton**

This project, part of the Southampton's Designated Archaeology Collections Programme, was an archaeological building survey of the cellar of the Bald Faced Stag Public House in the Freemantle area of Southampton, by Southampton City Council Archaeology Unit.

### **A Mid-Saxon Site at Anderson's Road, Southampton**

This resource, part of the Southampton's Designated Archaeology Collections Programme, reports on the discoveries made during an excavation and a watching brief undertaken during redevelopment at Anderson's Road, Southampton in 2003-4 carried out by Wessex Archaeology.

### **An Archaeological Excavation at Boldrewood Campus, University of Southampton, Southampton**

This archive, part of the Southampton's Designated Archaeology Collections Programme, represents one of the outcomes of an evaluation carried out by John Moore Heritage Services on land south of the School of Biological Science, Boldrewood Campus, Southampton University.

### **Archaeological and cultural heritage investigations on the site of the London 2012 Olympic and Paralympic Games**

This archive supports the publication of the work carried out on the 2012 Olympic site.

### **Update of the Archaeological Collections Areas Database and Map**

This resource, provided by the Society for Museum Archaeologists, has been updated to include a new map interface and database of museum collecting areas.

### **West Coast Palaeolandscapes Survey Main**

This Marine ALSF funded project expanded on an earlier pilot project to investigate the potential for submerged landscapes within the Irish Sea and Bristol Channel.

### **HMJ Underhill Archive update**

Originally released in 2004 the Henry Michael John Underhill Archive following work by the Institute of Archaeology at Oxford University, has been updated to include material from the original website alongside scanned images from the original slides.

### **Kimbridge Farm Quarry, Dunbridge**

The project archive contains the results of a geoarchaeological watching brief during the 17 years of gravel extraction at Dunbridge, in the River Test valley, Hampshire.

### **Ceramics and Society: Early Tana Tradition and the Swahili Coast**

The Ceramics and Society project sought to explore the corpus of Early Tana Tradition ceramics, creating a database of sherds from excavated sites across East Africa. The history of research in this region has resulted in a very diverse set of methodologies and analytical systems being applied to different sites, and through systematic comparison, Ceramics and Society sought to bring these data into a common framework for comparison. In a project funded by the British Academy and the British Institute in Eastern Africa, a series of key ETT/TIW sites were revisited, and sherds analysed according to a single system, allowing quantitative cross-site comparison for the first time.

### **The Archaeological Journal**

The Royal Archaeological Institute (RAI) is a leading national archaeology society and since 1844 have annually published the Archaeological Journal. The journal contains papers on the Institute's interests, which span all aspects of the archaeological, architectural and landscape history of the British Isles.

### **Scottish Archaeological Internet Reports (SAIR)**

Scottish Archaeological Internet Reports (SAIR) is an Open Access publication which was established in 2000 by a consortium comprising the Society of Antiquaries of Scotland, Historic Scotland, and the Council for British Archaeology.

### **CBA Radiocarbon Index**

A total of 5848 radiocarbon dates - collected by English Heritage as part of the Gathering Time project and from the Radiocarbon Datelist publications have been added to the CBA Radiocarbon Index for Great Britain.

### **Tyne and Wear EUS**

During 2004 to 2005 English Heritage funded the archaeological assessment of the five small medieval towns of Tyne and Wear. The work involved the collation and analysis of documentary, cartographic and archaeological sources for evidence of the extent and character of the urban development of the towns from the historic core to the major areas of residential and industrial expansion in the late eighteenth and nineteenth centuries.

### **A Long Way from Home: Diaspora Communities in Roman Britain**

This AHRC funded project explored the cultural and biological experience of immigrant communities in Roman Britain. It has long been known from epigraphic and historical sources that Britain was home to a wide range of immigrants during the Roman period, with most of the evidence referring to imperial officials and military personnel. Using a range of scientific techniques, we have identified possible migrants in the burial record of Roman Britain.

### **Society of Antiquaries of Scotland updated**

These series have been updated with the addition of volumes 135-140 (2005-2010) added to the Proceedings.

### **North Lincolnshire Coversands Research Project**

This ALSF funded project focussed upon the 'cover sand' deposits of North Lincolnshire and used a variety of prospection techniques to identify possible archaeological sites that were then investigated via excavation.

### **Culture and Gender in the Danelaw: Scandinavian and Anglo-Scandinavian Brooches, 850-1050**

Over the past 30 years, hundreds of new finds of Viking-Age metalwork have been brought to light, mainly as a result of metal-detecting. Particularly prominent among the new material are female personal ornaments (brooches and pendants), in both Scandinavian and Anglo-Scandinavian styles. While several brooches and pendants recorded by the Portable Antiquities Scheme are now in the public domain, information relating to many more remains difficult to access in county HERs or regional museum archives. Accordingly, they are presented and illustrated here as a group, for the first time.

### **Howick Project**

The site at Howick was discovered when amateur archaeologists found flint tools eroding from a cliff edge 3km south of Craster on the Northumberland coast. The discovery prompted an investigation by ARS Ltd and the University of Newcastle which took place in the summers of 2000 and 2002.

### **Medieval Settlement Research**

The Medieval Settlement Research Group's journal, Medieval Settlement Research (MSR), is published each year in the autumn. The journal is an internationally recognised publication, containing peer-reviewed research papers, fieldwork reports and news, reviews and an annual bibliography. Although the Group's interests are concentrated on British and Irish medieval landscapes between the 5th and 16th centuries AD, it actively encourages wider chronological and pan-European perspectives.

### **Dendrochronology database updated**

This resource has been updated, and now contains over 3300 tree-ring dates for buildings in the United Kingdom, ranging from cathedrals to cottages and barns. The database holds period, location and reference information for each record. It also includes a few buildings that have been dated by high precision radiocarbon dating, and the names of buildings for which dating was attempted but not successful.

### **Wrecks on the Seabed R2: Assessing Evaluating and Recording (Unknown)**

This dataset relates to an unknown steamer of possible First World War date and comprises databases relating to the Wessex Archaeology DIVA dive recording system, GIS shapefiles for the dive tracklogs of the ROV and video stills from the survey.

### **Wrecks on the Seabed R2: Assessing Evaluating and Recording (U86)**

The archive is from the remote operated vehicle (ROV) survey of a First World War German U-boat - U86 and comprises databases relating to the Wessex Archaeology DIVA dive recording system, GIS shapefiles for the tracklogs of the ROV and video stills from the survey.

### **Wrecks on the Seabed R2: Assessing Evaluating and Recording (Liberator)**

The archive is from the remote operated vehicle (ROV) survey of an unknown B-24 Liberator bomber, it comprises databases relating to the Wessex Archaeology DIVA dive recording system, GIS shapefiles for the dive tracklogs of the ROV and video stills from the survey.

**Diving investigations on the Wreck of the Invincible**

The project involved archaeological survey and recording on the wreck of the Invincible, a 3rd Rate 74-gun warship which was lost in 1758. The work was carried out for English Heritage by Wessex Archaeology in 2003.

**Diving investigations on the submarine HMS/M A1**

The project was a condition survey of the early 20th century submarine HMS/M A1, carried out for English Heritage by Wessex Archaeology in 2005.

**Archaeological Watching Brief at Test Park Community Sports Facility, Lower Brownhill Road, Southampton**

The project was an archaeological watching brief carried out on the construction of a new sports facility at Lower Brownhills Road, Southampton for Southampton Solent University.

(E) CONFERENCES & PRESENTATIONS

30 July	<b>University of York RDM Workshop</b> , York.	Presentation by Michael Charno: <i>DOI's and the ADS</i> . Attended by Catherine Hardman.
26 July	<b>DPC Preserving Computer Aided Design</b> , London.	Attended by Jo Gilham.
15-19 July	<b>DPC Advanced Practitioner Training</b> , Glasgow.	Attended by Jo Gilham.
12 July	<b>CERIF for Datasets Workshop</b> , Glasgow.	Presentation by Michael Charno: <i>Archaeological Data Centre and Datacite Case Study</i> .
10-11 July	<b>AHRC Impact meeting</b> , London.	Attended by Catherine Hardman.
10 July	<b>Knowledge Exchange in the Arts and Humanities</b> , Southampton.	Presentation by Julian Richards: <i>Measuring the value of data in the Arts and Humanities: The Impact of the ADS</i> .
6 July	<b>Digital Heritage 2013: Interfaces with the Past</b> , York.	Chaired by Julian Richards. Organised by Holly Wright. Poster by Holly Wright: <i>ARIADNE</i> . Attended by Katie Green, Michael Charno, Judith Winters.
5 July	<b>DPC Open Data Day</b> , York.	Presentation by Catherine Hardman: <i>Open Data: Data preservation, Data citation</i> .
2-4 July	<b>SPRUCE Digital Preservation Mash-up</b> , London.	Attended by Jo Gilham.
1-2 July	<b>OAPEN e-monograph conference</b> , British Library, London.	Attended by Judith Winters.
25-27 June	<b>DARIAH, CHCTA Workshop</b> , Copenhagen, Denmark.	Presentation by Julian Richards: <i>Internet Archaeology and digital scholarly communication</i> .
21 June	<b>NEARCH Kick Off Meeting</b> , Paris, France.	Presentation by Julian Richards: <i>Digital Data in archaeology: long term preservation and access – the work of the ADS</i> . Attended by Holly Wright.
19 June	<b>Roman Rural Settlement in the East Midlands Research Seminar</b> , University of Leicester, Leicester.	Presentation by Tim Evans: <i>Digital Dissemination Strategies</i> .
14 June	<b>Opening the Past</b> , Pisa, Italy.	Presentation by Julian Richards: <i>Open Data in Archaeology</i> .
10 June	<b>Web as Literature</b> , British Library, London.	Attended by Michael Charno.

5-7 June	<b>Arches: Heritage Inventory &amp; Management System Workshop</b> , Hertfordshire.	Attended by Tim Evans.
29 May	<b>FISH Interoperability Toolkit Training</b> , York.	Attended by Kieron Niven.
22 May	<b>Now and the Future of Data Publishing</b> , Oxford.	Attended by Katie Green.
18 May	<b>Social Media and Public Archaeology</b> , McDonald Institute for Archaeological Research, Cambridge.	Presentation by Michael Charno: <i>Archaeological ASBO</i> .
14 May	<b>UDCE GIS in Archaeology</b> , Oxford.	Presentation by Michael Charno: <i>The Afterlife of GIS</i>
6 May	<b>Sustainable Archaeology</b> , Xi'an, China.	Presentation by Julian Richards: <i>Digital Data in archaeology: long term preservation and access</i> .
1 May	<b>RCAHMS and DPC 3D Data Workshop</b> , Edinburgh.	Presentation by Catherine Hardman and Kieron Niven: <i>Documenting and archiving 3D data: Metadata and Standards</i> . Attended by Jenny Ryder.
30 April	<b>PREPARDE Workshop</b> , Oxford.	Attended by Judith Winters.
25 April	<b>RDMF Special Event: Funding Research Data Management</b> , Birmingham.	Attended by Catherine Hardman.
23 April	<b>DPC PREMIS METS Information Day</b> , London.	Attended by Jo Gilham.
21 April	<b>AAF Meeting</b> , York.	Attended by Catherine Hardman.
26 April	<b>FISH Meeting</b> , Birmingham.	Attended by Ray Moore.
26 April	<b>50 Years of Archaeology, lecture series</b> . Sheffield	Presentation by Judith Winters; <i>The beginnings of assemblage</i>
17-19 April	<b>IfA 2013</b> , Birmingham.	Presentation by Katie Green: <i>The Economic Impact of ADS</i> . Workshop by Catherine Hardman and Ray Moore: <i>Digital Data and the Archaeological Record</i> . Attended by Neil Gevaux.
11 April	<b>MA Seminar</b> , Bradford.	Lecture by Katie Green: <i>Challenges for Archaeology in the Digital Age</i>
25-26 March	<b>JISC workshop</b> , Birmingham.	Presentation by Catherine Hardman: <i>ADS-easy: making life easier?</i>



26 March	<b>CAA 2013</b> , Perth, Australia.	Two presentations by Holly Wright: <i>Using Linked Open Data to describe Roman Amphorae</i> , and <i>The ADS, Digital Archives and Economic Impact</i> . Poster by Holly Wright: <i>Advanced Research Infrastructure for Archaeological Dataset Networking in Europe (ARIADNE)</i> .
19-20 March	<b>LoCloud Kick-off Meeting</b> , Oslo, Norway.	Attended by Julian Richards and Holly Wright.
16 March	<b>Roman Rural Settlement in the East of England Research Seminar</b> , Cambridge.	Presentation by Tim Evans: <i>Digital Dissemination Strategies</i> .
14 March	<b>Archaeological Computing Research Group</b> , Southampton.	Presentation by Michael Charno: <i>SELECT ?data { ?data dcterms:publisher "ADS" } or Linked Data at the ADS</i>
14 March	<b>Undergraduate Seminar</b> , Southampton.	Lecture by Michael Charno: <i>2,000 years in the making, 3 days to record, backed up in 30 seconds, lost forever?</i>
11-12 March	<b>SPRUCE Hackathon</b> , Leeds.	Attended by Michael Charno.
8 March	<b>DataCite Workshop: Making citation work: practical issues for institutions</b> , British Library, London.	Attended by Michael Charno as Panel Member.
7 March	<b>Archaeological Archives Forum Open Meeting</b> , Birmingham.	Attended by Catherine Hardman.
6 March	<b>MEDIN DAC Working Group</b> , Aberdeen.	Attended by Catherine Hardman.
23 February	<b>CAA UK 2013</b> , London.	Presentation by Michael Charno: <i>ADS easy: developing a system for data deposition</i> . Poster by Ray Moore: <i>Impact of the ADS: A study and methods for enhancing sustainability</i> .
20 February	<b>Digital Past</b> , Monmouth.	Presentation by Michael Charno: <i>Large Digital Datasets: Problems of processing and storage</i> .
15 February	<b>Archaeology Departmental Research Forum</b> , University of York, York.	Presentation by Catherine Hardman: <i>The economic and other Impacts of Digital Archives</i> .
15 February	<b>Society of Antiquaries Open Access Meeting</b> , London.	Attended by Katie Green.

5-8 February	<b>ARIADNE Kick-off Meeting</b> , Rome, Italy.	Attended by Julian Richards, Holly Wright, Catherine Hardman.
4 February	<b>Archival Encounters III: Digitisation</b> , Leeds.	Attended by Katie Green.
17th January	<b>Knowledge Exchange workshop at IDCC</b> , Amsterdam, Netherlands.	Presentation by Catherine Hardman: <i>The ADS: Deposit charges, costing tools and e-repository sustainability.</i>
16 January	<b>Digitised Diseases, Project Meeting</b> , London.	Attended by Tim Evans.
15 January	<b>WAC 2013</b> , Jordan.	Presentation by Julian Richards: <i>The economic and other Impacts of Digital Archives.</i> Presentation by Micheal Charno: <i>Select ?data ( ?data dcterms:publisher "ADS" ) or linked data at the ADS.</i>
10 December	<b>DSA Workshop</b> , Florence, Italy.	Presentation by Catherine Hardman: <i>Data Seal of Approval: Case Study from the ADS.</i>
29-30 November	<b>JISC MRD Workshop</b> , Bristol.	Presentation by Catherine Hardman: <i>SWORDARM: Benefits and Evidence.</i>
19 November	<b>AHRC Digital Transformations</b> , London.	Attended by Catherine Hardman.
14 November	<b>BASIS Forum</b> , London.	Presentation by Julian Richards: <i>The ADS and the British Schools Abroad.</i>
12 November	<b>Postgraduate Seminar</b> , Manchester.	Lecture by Tim Evans: <i>ADS: challenges for archaeology in a digital age.</i>
8 November	<b>UCL Conference</b> , London.	Presentation by Catherine Hardman: <i>Impact of the Archaeology Data Service: a study and methods for enhancing sustainability.</i>
6-7 November,	<b>APA Conference</b> , Frascati, Italy.	Presentation by Julian Richards: <i>The ADS: sustainable digital archiving and value added.</i>
25 October	<b>JISC MRD Conference</b> , Nottingham.	Presentation by Julian Richards: <i>The ADS and SWORD-ARM: Deposit charges, costing tools and e-repository sustainability.</i>
23 October	<b>Realising the Opportunities of Digital Humanities</b> , Dublin.	Presentation by Stuart Jeffrey: <i>Fifteen Years of Archiving Archaeology at the ADS.</i>
17 October	<b>AAF Meeting</b> , Salt Mines, Winsford.	Attended by Catherine Hardman

16 October	<b>DPC - TIMBUS Training Day</b> on 'Resilient Digital Business Processes', Dublin, Ireland.	Attended by Holly Wright.
15-16 October	<b>EH Silbury Hill Digital Archive meeting</b> , Portsmouth.	Attended by Jenny Ryder.
22 August	<b>Bedern Group</b> , York, UK.	Attended by Catherine Hardman, Stuart Jeffrey and Julian Richards.
16-18 August	<b>FAIMS Workshop</b> , Sydney, Australia.	Three presentations by Julian Richards: <i>Online Repositories: The ADS 15 years on</i> , <i>Data federation and interoperability in Europe</i> , and <i>Sustainability - the ADS business model</i> .
15 August	<b>SWORDARM Project Workshop</b> , UK.	Workshop and demonstration by Catherine Hardman on ADS-easy

## **(F) PUBLICATIONS**

Evans, T.N.L. (2013) 'Holes in the Archaeological Record? A Comparison of National Event Databases for the Historic Environment in England ' *The Historic Environment* Volume 4, Number 1, pp. 19-34(16).

Jeffrey, S., 2012. A new Digital Dark Age? Collaborative web tools, social media and long-term preservation. *World Archaeology*, 44(4), pp. 553-570.

Niven, K. (ed.) (2013) *Caring for Digital Data in Archaeology*. ADS/ Digital Antiquity Guides to Good Practice, Oxbow Books

Richards, J.D. "Digital Infrastructures for Archaeological Research: A European perspective", in *CSA Newsletter*, <http://csanet.org/newsletter/fall12/nlf1202.html>. Fall, 2012.