

Geophysical Survey in the Archaeological Record:



The Archaeological Investigations Project



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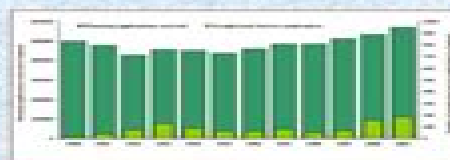


Figure 1. Number of planning applications notified in England from the Office of the Deputy Prime Minister, divided into the number of notified planning related geophysical survey notifications 1996-2000.

With the advent of PPG14 (Planning Policy Guidance note 14) in 1999, archaeology in England has developed within a detailed statutory context (Government 1999). This has seen the use of geophysical techniques as a rapid evaluation tool in planning related archaeology (Figure 1). This new important survey can greatly enhance the known archaeology of a site and its surrounding environs, for the case of developments it can be an invaluable way of locating structures to target the archaeology. The variety of methods and availability (investment types) means that the most appropriate method can be chosen for a project and by combining a number of methods a very detailed picture of the site can often be built up. Personal and public research projects also utilize geophysical survey techniques providing an essential research tool with quickly accessible results that can be used to illustrate the need for further work, and develop future strategies (see Figure 2).

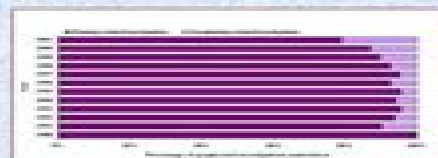


Figure 2. Proportion of planning related to research related non planning geophysical investigations recorded in England 1996-2000.

The Archaeological Investigations Project, funded by English Heritage, seeks to record and provide a picture of all archaeological investigations undertaken in England, year by year. It provides details of archaeological interventions for each county and survey authority in England and is the only systematically researched up to date record of its kind in England. The project researchers visit all county councils, commercial units and organisations that undertake regional fieldwork, while other sources are contacted for ground surveys. In addition to this, AIP has recently published Archaeology after PPG14: archaeological investigations in England 1996-2000 (2001). An analysis of the changing character and distribution of archaeological work in England since the introduction of PPG14.

The development and availability of affordable, more timely equipment and data processing packages means that more active local archaeological movements can afford at least basic monitoring equipment. This provides a useful non invasive research tool which enables us to employ the broader public knowledge of archaeological sites and potentially contribute immensely to the enhancement of the local SMITHIAN Sites and Monuments Record Heritage Environment Record.

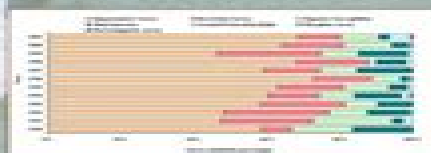


Figure 3. Percentage of notified archaeological geophysical investigations in England by survey method 1996-2000.

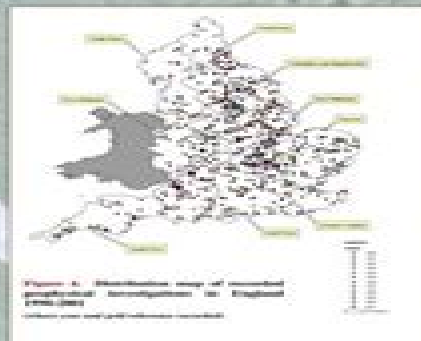


Figure 4. Distribution map of notified geophysical investigations in England 1996-2000.



Figure 5. Percentage of investigations types combining geophysical methods in England 1996-2000.

For more local, personal and commercial units that more often geophysical survey in their recording of archaeological work. The number of specialist geophysical companies have grown significantly and within a range of commercial and non profit (Figure 6) to aid in the geophysical survey. From the local market it has become a very cost-effective way of obtaining ground level archaeological knowledge. The growth in independent Archaeology have been developed a few years ago and are now at least 20 units are currently in use by CEA surveys. The more affordable commercial and cost of use to the surveyor means that many public commercial archaeological units pursue their own equipment.

This situation has an increasing number of geophysical surveys have been undertaken by a greater number of organisations just in the last ten years (Figure 7), and that a wealth of information is becoming available. AIP aims to record these events and map the trends which they analysis reveals.

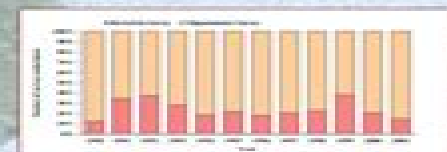


Figure 6. Comparison of the two main geophysical survey types used for field investigations recorded in England 1996-2000.

AIP has always recorded geophysical surveys which form part of a broader evaluation consisting of a number of archaeological techniques, specialist geophysical surveys were recorded on the English Heritage Geophysical Survey Database. The CD-ROM contains details of all AIP geophysical surveys dating back to 1972, as well as a large number of other surveys carried out by other organisations and individuals, either reported as a requirement of permission for surveys to be conducted on a scheduled ancient monument, locally within AIC of the Historic Monuments, or used in conjunction to be included in the database.

The proliferation of geophysical surveys during the 1990s (Figure 8) means, however, that a more comprehensive approach was needed for tracking down and recording the events, extent and distribution of geophysical surveys of all kinds. These data collections (2001) onwards for events undertaken in England now include all geophysical survey work. It is hoped that this sample that be used to support and enhance already existing data sets.

Initial analysis has produced some interesting results, such as the increasing dependence on equipment in the primary survey techniques and the dramatic increase in the use of AIP in archaeological investigations. One of the aims is to compare to data collection from county by will be more comprehensive and therefore more easily comparable on a national scale.



Figure 7. Number of archaeological monitoring units notified against notified geophysical units combining geophysical surveys in England 1996-2000.



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Jodie Lewis



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Anglo-Saxon England: Volume 28 Michael Lapidge, Malcolm Godden, Simon Keynes, 2000-06-22 This volume is framed by articles that throw interesting light on the achievement and reputation of the greatest of Anglo Saxon kings Alfred The Archaeology of Mediterranean Prehistory Emma Blake, A. Bernard Knapp, 2008-04-15 This book offers a comprehensive introduction to the archaeology of Mediterranean prehistory and an essential reference to the most recent research and fieldwork Only book available to offer general coverage of Mediterranean prehistory Written by 14 of the leading archaeologists in the field Spans the Neolithic through the Iron Age and draws from all the major regions of the Mediterranean s coast and islands Presents the central debates in Mediterranean prehistory trade and interaction rural economies ritual social structure gender monumentality insularity archaeometallurgy and the metals trade stone technologies settlement and maritime traffic as well as contemporary legacies of the region s prehistoric past Structure of text is pedagogically driven Engages diverse theoretical approaches so students will see the benefits of multivocality **The Archaeology of the 11th Century** Dawn M Hadley, Christopher Dyer, 2017-02-10 The Archaeology of the 11th Century explores this formative period of English history and in particular the impact of the Conquest of England by the Normans The volume examines how the Normans contributed to local culture religion and society through a range of topics including food culture funerary practices the development of castles and their impact and how both urban and rural life evolved during the eleventh century Through its nuanced approach to the complex relationships and regional identities which characterized the period this collection stimulates renewed debate and challenges some of the long standing myths surrounding the Conquest

Biological Diversity Paul E. Hatcher, Nick Battey, 2011-03-23 Biological Diversity takes a fresh innovative approach to the teaching of biodiversity Rather than detailing and cataloguing the major taxa and their evolutionary relationships the authors have selected 18 groups of organisms and used these as a framework in which to discuss the species and their interactions with man and each other There is a strong narrative theme throughout the exploited and the exploiters and in many cases there is emphasis on the historical context A wide range of organisms are covered from the unicellular to birds and mammals and with an equal consideration of plants and animals Species have been chosen for their ability to best illustrate particular biological principles and for their strong interaction with other species After an introduction the book is divided into two parts Exploited and Exploiters Each of the chapters although linked to each other forms a stand alone essay They are scientifically rigorous up to date and do not shy away from addressing some controversial issues Chapters have text boxes highlighting important issues and concepts lists of further reading and references In addition to tables and figures the book has a selection of original illustrations drawn by leading artist Steven Appleby This fresh approach will appeal to all those interested in the biological sciences and aims to be accessible to people with a diversity of backgrounds It will prove

particularly useful to biology students enabling them to get to grips with important biological principles and concepts that underpin the diversity of life and the interrelationship of humans with other groups of organisms

Neolithic Houses in Northwest Europe and beyond Timothy Darvill, Julian Thomas, 2002-12-01 A digital reprint which makes available again the first publication of the Neolithic Studies Group containing papers given to a special colloquium on the structures of Neolithic Europe Contributions include Neolithic houses in mainland Britain and Ireland a skeptical view Julian Thomas Houses in context Building as process Alasdair Whittle A Central European Perspective Jonathon Last Neolithic houses in Ireland Eoin Grogan Neolithic buildings in Scotland Gordon Barclay Neolithic buildings in England Wales and the Isle of Man Tim Darvill Mesolithic or later houses at Bowmans Farm Romsey Extra Hampshire Francis Green Ballygalley houses co Antrim Derek Simpson Later Neolithic Structures at Trelystan Powys Alex Gibson Life times and works of House 59 Tell Ovcharovo Bulgaria Douglass Bailey Structure and ritual in Neolithic houses Peter Topping Architecture and Cosmology in the Balinese house life is not that simple Colin Richards Houses in the Neolithic imagination an Amazonian Example Christine Hugh Jones

A Cultural History of Gardens in the Medieval Age Michael Leslie, 2015-04-02 The Middle Ages was a time of great upheaval the period between the seventh and fourteenth centuries saw great social political and economic change The radically distinct cultures of the Christian West Byzantium Persian influenced Islam and al Andalus resulted in different responses to the garden arts of antiquity and different attitudes to the natural world and its artful manipulation Yet these cultures interacted and communicated trading plants myths and texts By the fifteenth century the garden as a cultural phenomenon was immensely sophisticated and a vital element in the way society saw itself and its relation to nature A Cultural History of Gardens in the Medieval Age presents an overview of the period with essays on issues of design types of gardens planting use and reception issues of meaning verbal and visual representation of gardens and the relationship of gardens to the larger landscape

Unparalleled Behaviour Martin P. King, 2003 This detailed study of the Mesolithic and Neolithic in Britain and Ireland examines evidence related to changes in social behaviour Martin King discusses economic and subsistence data burial practices mobility social order construction land clearance and the deposition of artefacts interpreting this material evidence in social terms

Current Geographical Publications University of Wisconsin--Milwaukee. Library, 1998 Current Geographical Publications CGP is a non profit service to the scholarly community initiated in 1938 by the American Geographical Society of New York Beginning in 2006 the format changed to include the tables of contents of current geographical journals The journal titles listed link to web pages or PDF scans of the current issue s contents

Monuments, Ritual and Regionality Jodie Lewis, 2005 The complex archaeological and geological legacy that North Somerset boasts often means that certain periods may be ignored Jodie Lewis s report focuses on the sometimes neglected Neolithic evidence found all over the area looking at well recognised sites such as Stanton Drew and Stoney Littleton and performing an in depth survey on the area as a whole The study critically assesses the evidence for

Neolithic activity in Northern Somerset and includes an analysis of the monuments cave deposits and flint scatters as well as presenting new data and interpretations *The Forest, Park and Palace of Clarendon, C. 1200-c. 1650* Amanda Richardson, 2005 Reconstructing an actual conceptual and documented Wiltshire landscape The main argument of this thesis is that the landscape and locality of Clarendon Forest and Park some 6 km east of Salisbury Wiltshire England were strongly influenced by the presence or later absence of Clarendon Palace which fell into decay in the late fifteenth century The first sure evidence of a royal residence at Clarendon dates from the reign of Henry I 1100 1135 although the site may well have Saxon connections A primary aim of this work is to restore the wider conceptual landscape by considering the forest alongside the relict landscape of the park and it is argued throughout that because medieval forests are archaeologically elusive the best way to achieve this is through an intensive documentary methodology Attention is drawn throughout to the capacity of documents to illustrate how estates were managed over time The argument representing an unprecedented systematic study of manuscript sources for Clarendon Park and Forest held at central and regional record offices is supported by references to printed primary sources It has resulted in the compilation of a main computer database listing over 800 relevant documents held at the Public Record Office alone from which those that might prove most useful were selected and transcribed The transcriptions arranged by subject form several substantial and searchable electronic databases facilitating cross checking and comparison The written sources themselves have informed the structure of the work and help to illustrate that this unique landscape and locality was indeed profoundly influenced by the existence of a royal park and palace at its centre Nevertheless what has emerged strongly in the course of the study are the myriad ways in which the forest in turn shaped the lifecycle of the palace *Rough Quarries, Rocks and Hills* Miles Russell, 2001 The Neolithic was a period of prolific activity for the South Downs in Sussex when enclosures and monuments were being built ditches cut large areas cleared and flint was extracted from the ground This study features one of the last great unpublished excavation archives relating to fieldwork conducted on the Neolithic monuments of the South Downs carried out by John Henry Pull in the 1920s 50s It includes reports from four major areas of flint mining Blackpatch Church Hill Cissbury and Tolmere largely based on contemporary records and accounts with comments and observations from Miles Russell The specialist reports and studies of artefact assemblages are to be published in a separate report *Newsletter* Garden History Society (Great Britain), 1997 *Antiquity*, 1998 Includes section Reviews *Annual Bibliography of British and Irish History*, 2002

Making English Landscapes Katherine Barker, Timothy Darvill, 1997 A review of changing attitudes to the historical dimensions of the landscape during the past 25 years based on lectures given at a symposium held at Bournemouth in 1995 in honour of Christopher Taylor Contents include Dorset and Beyond Christopher Tayl

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