Going over Old Ground
Perspectives on archaeological geophysical and geochemical survey in Scotland

Proceedings of a conference held at the Department of Archaeology, University of Glasgow, Scotland, August 2003

Edited by

R. E. Jones
L. Sharpe

BAR British Series 416
2006
Contents

Session 1: Surveys and Results
The Scottish Archaeological Geophysics Database - some preliminary findings
Christine Rennie
Recent geophysical surveys at Roman forts in Central Scotland
Richard Jones, Alan Leslie and Paul Johnson, with Geoff Bailey
Magnetic Stones – an investigation of the recumbent stone circle at Rothiemay, Banffshire
Arnold Aspinall
Geophysical Investigation of Battle Moss Stone Rows
Louise McAllan
Geophysical Surveys at an Industrial Archaeological site in Fife
Richard Bates and M Duff
Geomagnetic surveys over cropmarks in the environs of Traprain Law, East Lothian
Duncan Hale, Colin Haselgrove and Leon Fitts
Echoes of the Past: Geophysical surveys in Scottish waters and beyond
Martin Dean
Geophysical survey on the M74
Iain Banks

Session 2: Integrated surveys, Geochemical surveys
Testing the use of multi-spectral imagery for detecting buried archaeology in sand dune-dominated systems
Tom Dawson and Sandy Winterbottom
Establishing patterns of coastal evolution – the role of Ground-Penetrating Radar and Archaeology
Alistair F Rennie and James D Hansom
A pedological approach to reconstructing land-use and settlement form in the Hebrides: Lessons for the future
J. A. Entwistle, K. J. W. McCaffrey and R. A. Dodgshon
Evaluating the use of multi-element soil analysis as an aid to archaeological interpretation
Clare Wilson, Donald Davidson and Malcolm Cresser

Session 3: Successes and failures; Regional differences
Classifying later prehistory in Wigtownshire, South-West Scotland: a geophysical exploration
Tessa Poller
The Upper Clyde Valley: Success?
Lorna Sharpe
Sinking into Old Ground – Ground Probing Radar in the Scottish Wetlands
Erica Utsi
Geophysical Survey below peat? – A simple magnetic susceptibility method
Adrian Challands
Round Table 1: Successes and Failures of Survey

Session 4: Databases, archives, end-users
The requirements for archiving geophysical survey information in Scotland
Peter McKeage
Geophysical Survey from the Unit Management Perspective: a view from Scotland
Alan Leslie and Iain Banks
Round Table 2: Databases, Archives and End Users
Session 5: Future directions, work in progress, surveys and results
Birsay and Skaill, Orkney: landscape survey 2003
David Griffiths
213
Inside the mound: geophysical investigations of the Scatness Iron-age Broch, Shetland
Armin Schmidt, Tim Sutherland and Steve Dockrill
225
Geophysical Survey at the Orkney World Heritage Site
John Gater, Dan Sheil, Nick Card and Susan Ovenden
231
Geophysics and the management of a designed historical landscape: a case study at Dunkeld
Dan Kellogg and Richard Jones
234

Abstracts and Poster Presentations

Abstracts
Resistivity imaging survey of Long Barrow, Aberdeenshire
Tim Neighbour and Bruce Hobbs
246
Geophysical and geochemical survey at Crossiecrown, Orkney: preliminary results
Adrian Challands and Richard Jones
246
Geochemical survey and metalworking: a geochemical methodology to understand past metallurgical activity
Christopher Carey and Ross Dean
247
The pollution of Hirta, St Kilda
Andy Meharg
247
Digging in the dark? Modelling deep alluvia to guide excavation strategies
David Jordan, I Catt, M Kilner, S Truss and J West
247
Preliminary Results from a Multi-Platform Remote Sensing Campaign: Airigh Ghuaidhre, Islay
Gary McKay
248
Beyond pretty pictures: archiving geophysical data for later re-use
Armin Schmidt
248

Poster Presentations
Geophysical survey at the Medieval pottery production centre of Colstoun, East Lothian
Kirsty Millican
249
West Lindsaylands and Brownsbank: two geophysical surveys in the Upper Clyde Valley
Christopher Nelson
250
Geophysical and Topographic survey at Gylen Castle, Kerrera, Argyll
Lorna Sharpe and David Connolly with Gert Petersen and Tessa Poller
250
Investigating the bloomery mounds of the Scottish Highlands: the role of geophysics
Iain Banks, Effie Photos-Jones and John Atkinson
252

Appendix
17.1 Table listing all file formats that NMRS is currently capable of accepting
List of chemical symbols used in this publication