

# Index

Page numbers in **bold** indicate the subjects of chapters: those in italics denote illustrations. Page numbers followed by n indicate that the reference will be found in a note.

- Aberdeen (Aberdeenshire) 283  
Aberdeen Lime Company Limited 288–9  
Abersnithock (Aberdeenshire), church enclosure  
122–4, 123–4, 136, 136–7, 137  
Adomnán 49, 50  
Alexander III, King of Scotland 248–9, 248  
Allt Cille Pheadair (Sutherland), souterrain 220  
*Anglo-Saxon Chronicle* 143  
animal sacrifice 258, 258, 261  
Annals of Ulster 238, 258, 259  
Antonine Wall ditch causeway, Rough Castle (Falkirk)  
**271–8**  
archaeological finds project *see* Boundary Objects  
Project  
Archaeology Data Service (ADS) 117  
Archaeology for Communities in the Highlands  
(ARCH) 99, 112–13  
AriadneRI initiative 117–18  
Arthur's O'on (Falkirk) 176–7, 176  
Autun, France 182
- Battle of Maldon* 256–7  
Battle of Stirling Bridge (1297) 153  
Bearsden (East Dunbartonshire), Roman bathhouse 184  
Before the Museum 101  
Bernicia 51  
Biblical iconography 249–53, 250–2  
blackhouses 187–9, 188–9  
Book of Kells 249, 251, 263–4  
Borgie (Sutherland), souterrain 218–19, 219  
boundaries, church enclosures of Pictland **121–38**  
Boundary Objects Project **95–118**  
context of 97–101, 98, 100  
discussion 115–18  
Finds Hub 101–9  
concept, creation and features 101–3, 103  
further developments 107–9, 108  
results and outcomes 103–6  
unconnected records 106–7  
other outreach activities 109–15  
Ancient Death Cafés 109–12, 110–11  
community collaborations 112–15, 113–15  
Brann a' Phuirt (Argyll) 303–4, 304  
Breadalbane brooch 48  
Breckness House (Orkney) 191, 192, 193  
bridle bit from Lochlea crannog **43–52**  
Buiston and Lochlea crannogs 50  
conclusions 51  
conquests, identities and boundaries 50–2  
description 43–4, 45–6, 46–7  
discovery 43, 44  
European links 47–8, 48  
Frankish influences 48–50  
brochs 183, 220  
Bronze Age period  
?anvil stone 75, 75  
?hammerstone 74–5  
pits at Thurston Mains 66, 67, 79  
pits at Woodhall 66–7, 68, 79  
Brough of Birsay (Orkney) 185, 202n4  
Brough of Deerness (Orkney) 186, 197, 203n12  
Buiston Loch crannog (North Ayrshire) 50  
Byzantine plates *see* Cyprus plates
- cable route, Thorntonloch to Boonslie (East Lothian),  
prehistoric and early medieval sites **57–89**  
Cambuskenneth Abbey (Stirling)  
fording place 154–5, 154  
log boat 144–5  
Canmore 104, 105–6, 107, 109–10  
*see also* National Record of the Historic  
Environment (NRHE)  
Carloway, Isle of Lewis (Western Isles) 187–91,  
188–91, 202–3n6–9  
Celtic directions 255  
chapels, mortars in early Medieval masonry 183, 185,  
195–8, 199, 200, 201  
*Chronicle of the Kings of Alba* (CKA) 143, 228, 238–9  
church enclosures of Pictland **121–38**  
background 121–2, 122  
conclusions 137–8  
discussion 133–7, 136–7  
radiocarbon dating 125, 136–7, 137  
survey and excavation sites  
Abersnithock (Aberdeenshire) 122–4, 123–4  
Dunkeld (Perth & Kinross) 129, 131, 132–3,  
133  
Glamis (Angus) 128–9, 130  
Migvie (Aberdeenshire) 124, 126–8, 127  
citadels 177, 178

- coble ferries 282  
 coins, Frankish 49, 51  
*Collectio Canonum Hibernensis* 134  
 copper alloy objects, bridle bit from Lochlea crannog **43–52**  
 Cove Harbour (Scottish Borders) 306, 306–7  
 Covid-19 pandemic 97  
 cowans 187, 199  
 Cracknie (Sutherland), souterrain  
   background and location 210–12, 210–11  
   description 212–13, 213–14  
   excavation 213, 215–16, 216  
   palaeoenvironmental evidence 216–17  
   radiocarbon dating 217  
 craftspeople 182, 187, 199  
 Cramp, Rosemary Jean, obituary **1–6**  
   academic career 1, 2, 5  
   awards and honours 1, 6  
   *Corpus of Anglo-Saxon Sculpture* (1984–2024) 3  
   excavations 2–3, 3, 4  
   personal qualities 2, 5  
   Scottish archaeology, influence on 5  
 crannogs 43, 50  
 cremation rites 261  
 croft houses 187–91, 188–91  
 cropmarks  
   Migvie (Aberdeenshire) 124, 126  
   Thorntonloch to Boonslie (East Lothian),  
     prehistoric and early medieval sites 58, 59–60,  
     81, 84  
 Culterty Quay (Aberdeenshire) *see* Newburgh Quay  
 (Aberdeenshire)  
 Curle, Alexander O 168, 169  
 ?cursus monuments 63, 64, 66, 84–5  
 Cyprus plates 249, 250, 252, 254, 254
- David (biblical king) 249–53, 250–2  
 David and Goliath 254, 254, 255  
 decapitations 257–9, 258  
 diaries 314–15, 315  
 digital platforms 99–109, 100, 103, 108  
 directions 254–5  
 donations 107  
 Duff, Revd, *Old Statistical Account of Scotland* 283  
 Dun Mhairtein (Sutherland), souterrain 220  
 Dunbar (East Lothian), harbours 308, 308  
 Dunkeld (Perth & Kinross), church enclosure 129, 131,  
   132–3, 133, 136–7, 137  
 Dunrobin Castle Museum (Highland) 113, 113
- Early Medieval period  
   bridle bit from Lochlea crannog **43–52**  
   church enclosures of Pictland **121–38**  
   clay and lime mortars **181–203**  
   Forres cross-slab (Sueno’s Stone)  
     dating and historical context **225–40**  
     iconography **245–66**  
     settlement at Woodhall 63, 71, 71, 80, 87–8  
 Easter Langlee (Scottish Borders) 177  
 Ellon (Aberdeenshire) 282, 282, 289  
 environmental evidence  
   Cracknie souterrain 216–17  
   Thorntonloch to Boonslie (East Lothian),  
     prehistoric and early medieval sites 76–80  
 excavations  
   church enclosures of Pictland **121–38**  
   Cracknie souterrain 213, 215–16, 216  
   Thorntonloch to Boonslie (East Lothian),  
     prehistoric and early medieval sites **57–89**  
 Eynhallow church (Orkney) 193–5, 193–4
- Fawcett, Richard, obituary **7–12**  
   awards and honours 8, 9  
   career at Historic Scotland 8, 10  
   education 7–8  
   other interests 8–9  
   personal qualities 9  
   publications list 10–12  
 ferry crossings 282  
 fords and fording points *see* river crossings at Stirling  
 Forres cross-slab (Sueno’s Stone) (Moray), dating and  
   historical context **225–40**  
   archaeological context 228  
   dating by historical means 230  
   description 227, 227, 229–30, 229  
   discussion 235–40  
     inaugurations 237  
     internal conflict 239  
     Moray in the 9th and 10th centuries 239  
     radiocarbon dating 235–6  
     sword or knife strokes 237  
     symbols, absence of 236–7  
     Viking campaigns 237–9  
   excavations 230–2, 231–2  
   historical context 228  
   location 225, 226  
   map evidence 228  
   place-names 228–9  
   previous work 225, 227  
   radiocarbon dating 233–5, 235–6  
 Forres cross-slab (Sueno’s Stone) (Moray),  
   iconography **245–66**  
   conclusion 265–6  
   drawings 245, 246, 247, 258  
   east face 253–65  
     biblical conventions 253–4, 254  
     biblical texts 255  
     fiery furnaces 259–61, 260–1

- heroic literature 255–7
- layout 253
- reading directions 254–5
- single combat 254
- Viking funeral rites 257–9, 258, 261, 261–2
- ‘inauguration’ scene on west face 247–53, 248, 250–2
- interpretations 247
- west face and sides
  - cross shape 246, 262
  - figures 263–4
  - interlace 262–3
  - weapons and accoutrements 264–5
- Forth River *see* river crossings at Stirling
- Fortingall (Perth & Kinross), church enclosure 134, 136–7, 137
- Forum on Information Standards in Heritage (FISH) vocabularies 106
- Franks 48–9
- funeral rites 257–9, 258, 261, 261–2
- furnaces 259–61, 260–1
- geophysical survey
  - church enclosures of Pictland
    - Abersnithock (Aberdeenshire) 122–3, 123
    - Dunkeld (Perth & Kinross) 131, 132, 133
    - Glamis (Angus) 129, 130
    - Migvie (Aberdeenshire) 124, 126–8, 127
    - Thorntonloch to Boonslie (East Lothian), prehistoric and early medieval sites 60, 61
  - Glamis (Angus), church enclosure 128–9, 130, 136–7, 137
  - glass, Frankish 49
  - Gododdin* 255–6
  - Goodie Water (Stirling) 144, 147
  - Gordon, Joanna 310, 312, 313, 315
  - Graham, Angus, Scottish harbours **299–316**
  - granary 284
  - grave goods 47, 48, 114, 115
    - see also* Viking funeral rites
  - Great Post Road 306
  - Greenland 198–9
  - Hadrian’s Wall, clay mortar, use of 184
  - hammerstone 74–5, 75
  - harbours **299–316**
    - conclusions 313–16
    - diaries 314–15, 315
    - methodology 313–14
    - context of research 300–2
    - contribution of Angus Graham 302–13, 303
    - early interests 303–5, 304–5
    - harbour surveys 305–6, 307–9, 308–10
    - inventories 312–13
    - regional methodology 310–12, 311–12
    - introduction 300
    - publication dates 299, 301
  - Heraclius (Emperior) 252
  - heroic literature 255–7
  - hillforts, Rubers Law hillfort (Scottish Borders), reused Roman masonry **167–78**
  - Historic Environment Records 104, 105, 106, 107
  - Historylinks Museum, Dornoch (Highland) 114
  - horses, sacrifice of 258, 258, 261
  - Ibn Fadlan 261
  - inauguration scenes 247–53, 248, 250–2
  - Inches Pier (Aberdeenshire) 284, 285, 287, 287–8
  - Iona (Argyl & Bute)
    - abbey vallum system 134, 135
    - St Columba’s Shrine 200, 201
    - St Ronan’s church 186, 197
  - Ireland
    - church enclosures and estates 135, 136, 136
    - mortars, clay and lime 182–3, 185–6, 199
    - shrine chapels 200, 201
  - Iron Age period
    - bridle bits 43–4, 45, 46
    - brochs 183, 220
    - occupation at Woodhall 63, 67, 68, 79–80, 86–7
    - pit alignment at Woodhall 67, 69–71, 69–70, 79, 85–6
    - pottery 72–4, 74
    - quern/millstone 74–5, 75
    - roundhouses 87, 184, 220
    - souterrains **209–22**
  - iron objects, bridle bit from Lochlea crannog **43–52**
  - Isle of Man
    - chapels 183, 185, 197–8
    - crosses 262
  - Jackson, Graham 300
  - Jacobite Rising (1745) 147–8
  - Kildean Dykes (Stirling) 144, 144–5, 156
  - king-lists 228
  - Kinneddar (Moray), church enclosure 134, 136, 136–7, 137
  - Lewis, clay and lime mortars, Carloway croft houses 187–91, 188–91, 202–3n6–9
  - Liber Eliensis* 257
  - LiDAR survey
    - Rough Castle (Falkirk), Antonine Wall ditch causeway 276, 277
    - Rubers Law hillfort (Scottish Borders) 172, 173, 175
  - lighters 289, 290
  - Loch Lomond Readvance 13–14, 36

- Lochlea crannog (South Ayrshire), bridle bit **43–52**  
 log boats 144–5  
 lorinery, bridle bit from Lochlea crannog **43–52**
- maritime cultural landscape 300, 302  
 masonry techniques  
   mortars in early Medieval masonry **181–203**  
   Rubers Law hillfort (Scottish Borders), reused  
     Roman masonry **167–78**  
 masons 187  
 Meadow of Waterton (Aberdeenshire) 289, 290, 290–2,  
 291–2  
 Medieval period *see* Early Medieval period  
 Merovingian burials 47, 48  
 Mesolithic period  
   pits at Boonslie (East Lothian) 60, 62, 80–1  
     charcoal 76, 79  
     flint 75  
   South Cuidrach, Isle of Skye, Upper Palaeolithic  
     and Mesolithic site **13–37**
- metal detecting 155  
 Migvie (Aberdeenshire), church enclosure 124, 126–8,  
 127, 136–7, 137  
 Mitchell, Alexander 292  
 Mitchell & Rae Ltd 292–4  
 monuments, Roman 176–7, 176  
 Morison's Haven (East Lothian) 305–6, 306  
 mortars in early Medieval masonry **181–203**  
   discussion 198–200, 201, 202, 203n18  
   shrine chapels 200, 201  
 earlier evidence 182–6  
   dating clay mortars 183–5  
   drystone construction in Scotland 183  
   Irish mortar-making techniques 182–3, 185–6  
   Isle of Man, chapels 183, 185  
   lime mortars 181–2  
 later evidence 186–95  
   definitions and terminology 186–7  
   Breckness House (Orkney) 191, 192, 193  
   Carlowaycroft houses (Isle of Lewis) 187–91,  
     188–91, 202–3n6–9  
   Eynhallow church (Orkney) 193–5, 193–4  
   pre-Romanesque chapels 195–8, 199
- Museum Artefact Geographical Interface project  
 (MAGI) 99–101, 100
- National Museums Scotland (NMS) 103–4, 105, 106–7  
 National Record of the Historic Environment (NRHE)  
 106  
   *see also* Canmore
- Neart na Gaoithe Offshore Wind Farm 58  
 Neolithic period  
   ?double-ditch monument at Woodhall 60–1, 60–1,  
     63–5, 84–5  
   pit cluster near Thurston Mains 65–6, 65–6, 79, 84  
   Skara Brae (Orkney), clay mortar, use of 183–4  
 Newburgh (Aberdeenshire) 281, 282, 282, 283–4, 287,  
 294  
 Newburgh Quay (Aberdeenshire) 284, 285–6, 294
- object-handling collections 114, 115  
*Old Statistical Account of Scotland* 283  
 organic residue analysis 73–4  
 Orkney, clay and lime mortars  
   Breckness House 191, 192, 193  
   Brough of Birsay 185, 202n4  
   Brough of Deerness 186, 197, 203n12  
   Eynhallow church 193–5, 193–4  
   Skara Brae 183–4  
 Orkney Tombs of the Isle project 114, 115
- paddle tugs 289–90, 290  
 Palaeolithic period, South Cuidrach, Isle of Skye,  
   Upper Palaeolithic and Mesolithic site **13–37**  
 Pictland church enclosures **121–38**  
 pit alignments 67, 69–71, 69–70, 79, 85–6  
 place-names 122, 143, 145–6, 228–9, 282  
 Portmahomack (Highland)  
   building methods 184–5  
   church enclosure 134  
 Portnancon (Sutherland), souterrain 220  
 ports 283, 300  
   *see also* harbours  
 post-medieval/modern period, landscaping and  
   quarrying at Thurston Main 67, 72, 72, 88  
 pottery  
   Iron Age 72–4, 74  
   other periods 74  
 Prehistoric Grave Goods Project 97, 99  
 provenance of artefacts 107  
 psalter illustrations 250–2
- querns 74, 75
- radiocarbon dating  
   Cracknie souterrain 217  
   Forres cross-slab (Sueno's Stone) (Moray) 233–5,  
     235–6  
   Thorntonloch to Boonslie (East Lothian),  
     prehistoric and early medieval sites 80, 82–3
- Rae, John (1789–1869) 292–3  
 Rae, John (1818–88) 293  
 Rae, John (1851–1918) 293  
 river crossings at Stirling (Stirlingshire) **141–58**  
   bridge at Stirling 142–3, 159n1  
   conclusion 158  
   fords at Frew 143, 145–9, 153, 159n2  
   Jacobite Rising (1745) 147–8

- location of 146–7, 146
- naming of 143, 145–6, 148
- other historical associations 148
- river crossings 149, 153, 159n11
- navigation upstream of Stirling 144–5, 144–5
- other fords and fording points 153–8
  - Cambuskenneth Abbey 154–5, 154
  - Drip 155–7, 155
  - Manor Ford, Stirling 157–8, 158
  - Stirling 153–4
- Stirling, historic significance of 141–2
- River Ythan Navigation (Aberdeenshire) **281–94**
  - Aberdeen Lime Company Limited 288–9
  - Meadow of Waterton docks 290–2, 291–2
  - Mitchell & Rae Ltd 292–4
  - Newburgh
    - closure of the port 294
    - as coastal port 283–4
    - dredging 287
    - harbour works 284, 285–8, 287
  - River Ythan navigation 282–3
  - upper navigation of the Ythan 289–90
- road systems 305, 306
- Roman period
  - Antonine Wall ditch, Rough Castle (Falkirk) **271–8**
  - clay mortar, use of 184
  - Rubers Law hillfort (Scottish Borders), reused
    - Roman masonry **167–78**
- Rough Castle (Falkirk), Antonine Wall ditch causeway **271–8**
  - cleaning and landscaping (1960s) 273–4, 273–4
  - date of the causeway 278
  - excavations (1903) 274–5, 275
  - forts and the Antonine Wall 271–2, 272
  - gradiometer survey 273
  - LiDAR survey 276, 277
  - location and alignment 275–6, 275–6
  - map evidence 276–8, 278
- roundhouses 87, 184, 220
- Roy, William, Military Survey of Scotland 146–7, 146, 277–8, 278
- Rubers Law hillfort (Scottish Borders), reused Roman masonry **167–78**
  - background 168–71
  - excavations 168–9
  - geology 171, 172
  - plan 169, 170
  - profile 171, 171
  - stones 168, 169
- conclusions 178
- location 167, 168
- post-Roman citadel 173, 177–8
- Roman occupation, reinterpretation of 168, 176–7, 176
- stones
  - number and distribution 173, 174–5, 175
  - previous finds 168, 169
  - survey methodology 172–4, 174
- Scone Abbey seal 248, 248
- Scotland's Archaeology Strategy 115, 116
- Scott, Sir Walter 146
- Scottish Archaeological Research Framework (ScARF) 300
- shields 265
- ships
  - of Mitchell & Rae Ltd 292, 293–4
  - at Newburgh 283–4
  - steam coasters 288
- shrine chapels 200, 201
- signal stations 176
- silver objects, Cyprus plates 249, 250, 252, 254, 254
- Skara Brae (Orkney) 183–4
- Skipness (Argyll), harbours 303–4, 309–10, 309
- Skye, South Cuidrach Upper Palaeolithic and Mesolithic site **13–37**
- souterrains **209–22**
  - Borgie souterrain 218–19, 219
  - Cracknie souterrain
    - background and location 210–12, 210–11
    - description 212–13, 213–14
    - excavation 213, 215–16, 216
    - palaeoenvironmental evidence 216–17
    - radiocarbon dating 217
  - Northern mainland souterrains 220–2, 221
  - South Cuidrach, Isle of Skye (Highland), Upper Palaeolithic and Mesolithic site **13–37**
    - discussion 34–7
    - introduction 13–19
      - climatic background 13–14
      - Early Mesolithic in Scotland 17–19
      - evidence from Scotland 14–15
      - Late Upper Palaeolithic in Scotland 15–17
      - North European cultural context 14, 35–6
      - project summary 14
    - lithic assemblage 22–4
    - lithic assemblage, Late Upper Palaeolithic 24–8
      - burins 28, 29
      - opposed-platform cores 24, 25, 26
      - preparation flakes 26, 26
      - scrapers 27–8, 28
      - tanged points 26–7, 27
      - tips of tanged or backed points? 27, 27
    - lithic assemblage, Late Upper Palaeolithic/Early Mesolithic
      - blade-scrapers 31, 32
      - debitage 28, 29, 30, 31
      - obliquely blunted points 30–1, 32

- single-platform cores 30, 31
- lithic assemblage, Early Mesolithic, broad
  - microburins 31–2, 32
- lithic assemblage, Late Mesolithic 32–3
  - cores 32–3, 33
  - microburins 33, 33
  - narrow-blade microliths 33, 33
- raw materials 21–2, 34
- South Cuidrach 19–20, 19–20
  - excavations 20
  - lithics 20, 21
- St Andrews (Fife), cross-shaft 250, 252
- St Columba's Shrine, Iona (Argyl & Bute) 200, 201
- St Ninian's chapel (Shetland) 196–7
- St Ronan's church, Iona (Argyl & Bute) 186, 197
- steam coasters 288
- steam tugs 289–90, 290
- Stirling (Stirling) *see* river crossings at Stirling
- Sueno's Stone *see* Forres cross-slab
- surveys, Rubers Law hillfort (Scottish Borders) 172–5, 173–5 *see also* geophysical survey; LiDAR survey
- swords 265
  
- Tàin* 256
- Thorntonloch to Boonslie (East Lothian), prehistoric and early medieval sites **57–89**
  - artefacts 72–6
    - pottery 72–4, 74
    - worked flint 75
    - worked stone 74–5
  - conclusion 88–9
  - discussion
    - Mesolithic activity 80–1
    - Prehistoric East Lothian 81, 84–6
    - Iron Age settlement 86–7
    - early medieval settlements 87–8
    - land improvement 88
  - environmental evidence 76–80
  - excavations 60–72
    - Mesolithic pits at Boonslie 60, 62
    - ?Neolithic double-ditch monument at Woodhall 60–1, 63–5, 63–4
    - prehistoric pit cluster near Thurston Mains 65–6, 65–6
    - Early Bronze Age pits at Thurston Mains 66, 67
    - Bronze Age and Iron Age occupation at Woodhall 63, 66–7, 68–70, 69–71
    - early medieval activity at Woodhall 63, 71, 71
    - medieval and post-medieval upland occupation at Boonslie 71
    - post-medieval/modern landscaping and quarrying at Thurston Mains 65, 67, 72, 72–3
    - introduction (location, route, geology, previous work) 58, 59
    - methodology 58–60
      - evaluation trenches 60
      - geophysical survey 60, 61
      - radiocarbon dating 80, 82–3
- Tours Bibles 253
- Towards a National Collection (TaNC) 101
- towers, Roman 176
- trackways, Neolithic, ?double-ditch monument at Woodhall 60–1, 60–1, 63–5, 84–5
- tugs 289–90, 290
  
- Uist Virtual Archaeology Project (UVAP) (Western Isles) 113–14
- unprovenanced artefacts 107
  
- Viking funeral rites 257–9, 258, 261, 261–2
- volunteers 99, 104, 116–17
  
- Waterton (Aberdeenshire) *see* Meadow of Waterton (Aberdeenshire)
- weapons 265
- whitehouses 190–1, 190
- worked stone
  - ?anvil stone 75, 75
  - ?hammerstone 74–5
  - lithic assemblage from South Cuidrach, Isle of Skye 22–33
    - Late Upper Palaeolithic 24–8, 25–9
    - Late Upper Palaeolithic/Early Mesolithic 28–31, 29–32
    - Early Mesolithic 31–2, 32
  - quern/millstone 74, 75
  - worked flint from Thorntonloch to Boonslie (East Lothian) 75
- Y Gododdin* 255–6
- Ythan River Navigation (Aberdeenshire) *see* River Ythan Navigation (Aberdeenshire)