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Bone, antler, tooth and horn technology and utilisation in prehistoric Scotland.

Andrew David Foxon

Volume II

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CATALOGUE INTRODUCTION

The four catalogues presented below list the material from Risga, Skara Brae, Midhowe and Sollas which was examined for this study. For much of it, this is the first time it has been isolated and identified although some of the pieces from Skara Brae and Midhowe have been detailed before in the publications by Childe (e.g. 1931b) and Callander & Grant (1934). A complete catalogue of the material examined would run to several volumes in itself and so the purpose of including a shortened version here is to enable readers to identify individual pieces discussed in the text and relate all the items studied to museum accession numbers and/or find numbers. The information included on each item follows the following format: -

- Object category as assigned by the writer;
- catalogue number; description of animal and element origin;
- other distinctive features; condition (i.e. complete or broken); dimension; museum and accession number or find number; excavator; year of excavation; location on site.

Not all these items of information can be given for all the pieces. A single dimension in millimetres is recorded, usually the length of an object but another dimension if that is considered more meaningful.

Abbreviations used for measurements are: -

diam  diameter  
ht    height  
1     length

Abbreviations are also given for the museums in which objects are located. These are: -

BM  British Museum, London
GAGM  Art Gallery & Museum, Kelvingrove, Glasgow
Hunt  Hunterian Museum, University of Glasgow
NMS  National Museum of Scotland, (all finds are in the Royal Museum of Scotland, Queen Street, formerly the National Museum of Antiquities of Scotland)
SB  Skara Brae site museum, Orkney
SM  Stromness Museum, Orkney
THM  Tankerness House Museum, Kirkwall, Orkney

For the Skara Brae material recovered from the excavations supervised by Childe, the year and finds number is given rather than the detailed location on site. This information is available from Childe's excavation diaries. The finds numbers are written on the objects in various coloured inks and pencil but in many cases are difficult to read. As a result there is a small group within each artefact category which have finds numbers which cannot be clearly read and cannot be linked into Childe's records although they are from the excavations supervised by him. Whatever information was legible is recorded. Black ink was used in 1927, red ink in 1928, green ink in 1929 and pencil from 1927-1930.
For site A at Sollas, the period to which individual objects can be attributed is given in the form 'Per A-C' i.e. period A-C (the early use of the site).

Within the text and catalogue references of this thesis the site names are abbreviated to:-

- R Risga
- M Midhowe
- SB Skara Brae
- SS Sollas

Figures (line drawings and illustrations) and plates within this volume are referred to as 'Fig' or 'Pl' followed by the chapter number and the number of plate within the illustration.

The purpose of the object line drawings is to present the reader with information on techniques of manufacture and wear. Items are shown with a firm outline at their outer edge, and any addition to the drawing conveys detail about the structure of the raw material, or the traces left on the surface by particular techniques of manufacture or uses. Cancellous tissue is represented by its trabecular structure, whereas compact bone is left plain. Grinding and trimming are shown by lines in the direction of the surface striae left by those techniques. The edge of cut and chop marks is identified. Since polishing leaves no visible striae, polished bone is also shown as plain.

Photographic plates are used when that medium can present the features under discussion in a way clearer than stylised line drawings.

Only a representative selection of the better preserved pieces in each category has been illustrated.
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4 compact bone, segment of shaft, broken, 1 39, Hunt B.1951.1967.3, Fig 5.4
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50 compact bone, ridge, blunt, blunt, 1 61, Hunt B.1951.1968.31, Fig 5.6

51 compact bone, marrow cavity, blunt, broad, 1 48, Hunt B.1951.1968.22
52 compact bone, marrow cavity, blunt, broad, 1 51, Hunt B.1951.1968.24
53 compact bone, marrow cavity, blunt, broad, 1 56, Hunt B.1951.1968.35, Fig 5.6
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67 compact bone, marrow cavity, broad, broad, 1 35, Hunt B.1951.1968.337
68 compact bone, marrow cavity, broad, broad, 1 37, Hunt B.1951.1968.3
69 compact bone, marrow cavity, broad, broad, 1 38, Hunt B.1951.1968.1
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71 compact bone, marrow cavity, broad, broad, 1 39, Hunt B.1951.1968.2
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77 compact bone, marrow cavity, broad, broad, 1 47, Hunt B.1951.1968.7
78 compact bone, marrow cavity, broad, broad, 1 48, Hunt B.1951.1968.10
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88 compact bone, corner, broad, broad, 1 54, Hunt B.1951.1968.11
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91 compact bone, blood channel, broad, broad, 1 74, Hunt B.1951.1968.20
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93 compact bone, ridge, broad, broad, 1 32, Hunt B.1951.1971.19
94 compact bone, ridge, broad, broad, 1 47, Hunt B.1951.1968.9
95 compact bone, ridge, broad, broad, 1 48, Hunt B.1951.1968.8
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99 compact bone, marrow cavity, point, broad, 1 44, Hunt B.1951.1968.36, Pl 5.9
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108 antler, broad, 1 34, Hunt B.1951.1971.36
109 antler, broad, 1 34, Hunt B.1951.1968.44
110 antler, broad, 1 35, Hunt B.1951.1968.45
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CATALOGUE OF OBJECTS FROM SKARA BRAE, ORKNEY

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2. sheep metapodial, ground head, complete, 1 57, SM A255, Watt
3. sheep metatarsal, proximal, almost complete, 1 71, SM A255, Watt
4. sheep metapodial, ground head, complete, 1 50, SM A255, Watt
5. sheep metapodial, ground head, broken, 1 40, SM A255, Watt
6. sheep metapodial, ground head, broken, 1 47, SM A255, Watt
7. sheep metapodial, broken, 1 66, SM A255, Watt
8. sheep metapodial, ground head, complete, 1 77, SM A255, Watt
9. sheep metapodial, ground head, broken, 1 44, SM A255, Watt
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11. sheep metapodial, ground head, complete, 1 65, SM A255, Watt
12. sheep metapodial, ground head, complete, 1 60, SM A255, Watt
13. sheep metapodial, ground head, complete, 1 59, SM A255, Watt 29
14. sheep metapodial, ground head, broken, 1 21, SM A255, Watt
15. sheep metapodial, ground head, complete, 1 54, SM A255, Watt
16. sheep metapodial, almost complete, 1 93, SM A255, Watt
17. sheep metapodial, ground head, broken, 1 34, SM A255, Watt
18. sheep metapodial, ground head, complete, 1 60, SM A255, Watt
19. sheep metapodial, broken, 1 53, SM A255, Watt
20. sheep metapodial, complete, 1 79, SM A255, Watt
21. sheep metapodial, complete, 1 93, SM A255, Watt
22. sheep metapodial, ground head, complete, 1 71, SM A255, Watt
23. sheep metapodial, ground head, complete, 1 58, SM A255, Watt
24. sheep metapodial, ground head, complete, 1 75, SM A255, Watt
25. sheep metapodial, almost complete, 1 72, SM A255, Watt 7
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28. sheep metapodial, ground head, broken, 1 55, SM A255, Watt
29. sheep metapodial, complete, 1 81, SM A255, Watt
30. sheep metapodial, complete, 1 84, SM A255, Watt 26
31. sheep metapodial, ground head, almost complete, 1 104, SM A255, Watt 25

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33 sheep metapodial, complete, 1 64, SM A255, Watt 28
34 sheep metapodial, ground head, almost complete, 1 89, SM A255, Watt
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36 compact bone, angular head, complete, 1 70, SM A255, Watt
37 compact bone, angular head, complete, 1 80, SM A255, Watt
38 compact bone, flattened head, complete, 1 54, SM A255, Watt
39 compact bone, broken, 1 35, SM A255, Watt
40 compact bone, broken, 1 62, SM A255, Watt
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42 compact bone, broken, 1 44, SM A255, Watt
43 compact bone, broken, 1 50, SM A255, Watt
44 compact bone, broken, 1 47, SM A255, Watt
45 compact bone, ground head, complete, 1 57, SM A255, Watt
46 compact bone, broken, 1 59, SM A255, Watt
47 compact bone, broken, 1 39, SM A255, Watt
48 compact bone, broken, 1 19, SM A255, Watt
49 compact bone, broken, 1 35, SM A255, Watt
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52 compact bone, broken, 1 55, SM A255, Watt
53 compact bone, broken, 1 29, SM A255, Watt
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55 compact bone, broken, 1 73, SM A255/258, Watt
56 sheep metapodial, ground head, broken, 1 53, SM A255/258, Watt
57 sheep metapodial, complete, 1 59, THM S.2a, Watt
58 sheep metapodial, complete, 1 107, THM S.14, Watt
59 sheep metapodial, complete, 1 109, THM S.15, Watt
60 sheep metapodial, complete, 1 114, THM S.16, Watt
61 sheep metapodial, complete, 1 96, THM S.17, Watt
62 sheep metapodial, ground head, complete, 1 100, THM S.18, Watt
63 sheep metapodial, ground head, complete, 1 118, NMS HA 42, Watt
64 sheep metapodial, complete, 1 82, NMS HA 63, Watt
65 sheep metapodial, ground head, complete, 1 84, NMS HA 64, Watt
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69 sheep metapodial, ground head, complete, 1 75, NMS HA 68, Watt
70 sheep metapodial, ground head, complete, 1 61, NMS HA 69, Watt
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72 sheep metapodial, ground head, almost complete, 1 59, NMS HA 72, Watt
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132 compact bone, broken, 1 48, BM 1938 1-1 152, Childe 1928, 104
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155 sheep metapodial, proximal, complete, 1 51, THM, Childe 1928, 189
156 sheep metapodial, ground head, almost complete, 1 84, BM 1938 1-1 149, Childe 1928, 193
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163 sheep metapodial, ground head, complete, 1 84, BM 1938 1-1 11a, Childe 1928, 226
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176 sheep metapodial, ground head, complete, 1 88, THM, ?Childe 1928, 361
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178 sheep metapodial, ground head, complete, 1 59, THM, ?Childe 1928, 363
179 sheep metapodial, ground head, complete, 1 64, BM 1938 1-1 151, Childe 1928, ?365
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182 sheep metapodial, ground head, complete, reground, 1 75, THM, Childe 1928, ?375
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184 sheep metapodial, ground head, complete, 1 71, NMS HA 351, Childe 1928, 379
185 sheep metapodial, proximal, 1 62, BM 1938 1-1 9e, Childe 1928, ?379
186 sheep metapodial, ground head, complete, 1 66, THM, Childe 1928, ?380
187 sheep metapodial, ground head, broken, 1 52, SM A262, Childe 1929, 13
188 compact bone, broken, 1 40, SM A262, Childe 1929, 15
189 compact bone, complete, 1 82, NMS HA 436, Childe 1929, 17
190 sheep metapodial, broken, 1 71, SM A262, Childe 1929, 21
191 sheep metapodial, immature, complete, 1 84, BM 1938 1-1 9a, Childe 1929, 38
192 sheep metapodial, ground head, complete, 1 61, BM 1938 1-1 2h, Childe 1929, ?45
193 sheep metapodial, ground head, broken, 1 58, SM A262, Childe 1929, 52
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195 sheep metapodial, ground head, broken, 1 82, BM 1938 1-1 12f, Childe 1929, ?56
196 sheep metapodial, ground head, complete, 1 45, NMS HA 362, Childe 1929, 59, Fig 6.4
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199 sheep metapodial, complete, 1 57, SM A262, Childe 1929, 67
200 compact bone, broken, 1 6, BM 1938 1-1 155, Childe 1929, 68
201 sheep metapodial, ground head, complete, 1 87, BM 1938 1-1 2g, Childe 1929, 72
202 compact bone, broken, 1 54, BM 1938 1-1 12d, Childe 1929, 74
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217 sheep metapodial, ground head, complete, 1 56, BM 1938 1-1 10, Childe 1929, 192
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223 sheep metapodial, proximal, complete, 1 96, BM 1938 1-1 7, Childe 1929, 213
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231 sheep metapodial, ground head, complete, 1 51, NMS HA 360, Childe 1929, 237
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235 sheep metapodial, ground head, complete, 1 63, NMS HA 387, Childe 1929, 301
236 sheep metapodial, ground head, complete, 1 86, SM A262, Childe 1929, 303
237 sheep metatarsal, proximal, complete, 1 70, BM 1938 1-1 9f, Childe 1929, 303
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246 sheep metapodial, broken, 1 42, THM, Childe 1930, 369
247 sheep metapodial, ground head, broken, 1 46, THM, Childe 1930, 370
248 sheep metapodial, ground head, broken, 1 51, THM, Childe 1930, 372
249 sheep metapodial, proximal, broken, 1 93, BM 1938 1-1 156, Childe 1930, 380
250 sheep metapodial, ground head, complete, 1 75, NMS HA 365, Childe 1930, 388
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252 sheep metapodial, ground head, broken, 1 37, BM 1938 1-1 144, Childe 1930, 406
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254 sheep metapodial, ground head, complete, 1 52, SB, Childe 1930, 412
255 sheep metapodial, ground head, complete, 1 52, SB, Childe 1930, 414
256 sheep metapodial, broken, 1 43, SM A262, Childe 1930, 417
257 sheep metapodial, ground head, complete, 1 66, THM, Childe 1930, 426
258 sheep metapodial, ground head, complete, 1 61, NMS HA 367, Childe 1930, 429
259 sheep metapodial, ground head, almost complete, 1 75, BM 1938 1-1 146, Childe 1930, 438
260 sheep metapodial, almost complete, 1 64, THM, Childe 1930, 471
261 sheep metapodial, ground head, complete, 1 64, THM, Childe 1930, 472
262 compact bone, broken, 1 48, SM A262, Childe 1930, 475
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264 sheep metapodial, ground head, almost complete, 1 74, SB, Childe 1930, 483
265 sheep metapodial, complete, 1 70, SM A262, Childe 1930, 485
266 sheep metapodial, ground head, complete, 1 59, THM, Childe 1930, 486
267 sheep metapodial, broken, 1 44, THM, Childe 1930, 493
268 sheep metapodial, proximal, broken, 1 94, SB, Childe 1930, 495
269 ?sheep metapodial, ground head, broken, 1 74, THM, Childe 1930, 501
270 sheep metapodial, broken, 1 55, NMS HA unreg, Childe 1930, 560
271 compact bone, broken, 1 88, SB, Childe 1930, 576
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280 sheep metapodial, ground head, complete, 1 70, BM 1938 1-1 139, Childe 1930, 4'

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285 sheep metapodial, almost complete, 1 51, THM, Childe 5 pencil
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287 sheep metapodial, ground head, almost complete, 1 62, NMS HA 368, Childe 69 pencil
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289 sheep metapodial, ground head, complete, 1 73, SB, Childe 137 red
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291 sheep metapodial, ground head, broken, 1 29, THM, Childe 168 pencil
292 sheep metapodial, immature, complete, 1 61, BM 1938 1-1 9b, Childe 191 green
293 sheep metapodial, immature, complete, 1 51, BM 1938 1-1 6b, Childe 225
294 sheep metapodial, complete, 1 62, THM, Childe 229 red
295 sheep metapodial, ground head, complete, 1 60, THM, Childe 229 red
296 sheep metapodial, ground head, broken, 1 63, SM A262, Childe 242 green

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357 sheep metapodial, ground head, complete, 1 60, NMS HA 389
358 sheep metapodial, ground head, almost complete, 1 104, NMS HA 359b
359 sheep metapodial, ?proximal, complete, 1 63, NMS HA 389d
360 sheep metapodial, proximal, complete, 1 99, NMS HA 396
361 sheep metapodial, ground head, complete, 1 73, NMS HA 398b, Fig 6.4, Pl 6.5
362 sheep metapodial, ground head, complete, 1 89, NMS HA 398c
363 sheep metapodial, ground head, almost complete, 1 49, NMS HA 398d
364 sheep metapodial, ground head, complete, 1 94, NMS HA 404
365 sheep metatarsal, proximal, complete, 1 93, NMS HA 404a
366 sheep metapodial, ground head, complete, 1 58, NMS HA 408
367 compact bone, segment, complete, 1 68, NMS HA 411, L.1933.294
368 sheep metapodial, broken, 1 40, NMS HA 411, L.1933.2019
369 ?sheep metapodial, broken, 1 62, NMS HA 411, L.1933.2023
370 sheep metapodial, broken, 1 41, NMS HA 411, L.1933.2025
371 sheep metapodial, broken, 1 35, NMS HA 411, L.1933.2026
372 compact bone, complete, 1 97, NMS HA 435
373 compact bone, complete, 1 51, NMS HA 442a
374 ?sheep metapodial, broken, 1 48, NMS HA unreg

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375 cattle metapodial, flattened head, almost complete, 1 109, SM A255, Watt
376 ?cattle metapodial, broken, 1 57, SM A255, Watt
377 compact bone, broken, 1 64, SM A255, Watt
378 ?cattle metapodial, proximal, complete, 1 99, SM A255, Watt
379 compact bone, complete, 1 110, SM A255, Watt
380 cattle metatarsal, complete, 1 145, SM ?A255/258, Watt
381 cattle metapodial, broken, 1 92, SM ?A255/258, Watt
382 ?cattle metapodial, complete, 1 122, SM ?A255/258, Watt
383 cattle metapodial, complete, 1 138, SM ?A255/258, Watt 9
384 compact bone, broken, 1 106, SM ?A255/258, Watt
385 cattle metapodial, flattened head, complete, 1 145, THM S.12, Watt
386 cattle/deer metapodial, ground head, broken, 1 118, NMS HA 45, Watt

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cattle/deer metapodial/tibia, ground head, broken, 1 147, NMS HA 54, Watt

cattle metapodial, broken, 1 105, NMS HA 56, Watt

cattle/deer metapodial, ground head, complete, 1 88, NMS HA 61, Watt, Pl 6.6

deer/cattle metapodial, broken, 1 158, NMS HA 76, Watt

compact bone, almost complete, 1 99, NMS HA 79, Watt

cattle/deer metapodial, complete, 1 185, NMS HA 373, Watt

cattle/deer metapodial, complete, 1 135, NMS HA 374, Watt

?ulna, complete, 1 181, NMS HA 443, Watt

deer/cattle metapodial, ground head, complete, 1 100, NMS HR 90

cattle metapodial, flattened head, complete, 1 103, THM 1983/186, Paterson 1927, la

deer/cattle metapodial, complete, 1 106, BM 1938 1-1 14, Paterson 1927, 15

deer/cattle metacarpal, complete, 1 119, THM, Paterson 1927, 39

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deer/cattle metapodial, ground head, complete, 1 88, SB, Childe 1928, 9

deer/cattle metapodial, proximal, ground head, complete, 1 138, NMS HA 376, Childe 1928, 25

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cattle/deer metapodial, ground head, almost complete, 1 129, NMS HA 377, Childe 1928, 154, Fig 6.5, Pl 6.6

deer/cattle metapodial, ground head, complete, 1 102, NMS HA 378, Childe 1928, 239

deer/cattle metapodial, ground head, complete, 1 274, NMS HA 372a, Childe 1928, 259, Pl 6.6

cattle metapodial, ground head, broken, 1 106, BM 1938 1-1 15, Childe 1928, 341
cattle metapodial, almost complete, 1 78, THM, Childe 1929, 134
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?cattle metapodial, broken, 1 111, SB, Childe 1929, 214
cattle metapodial, ground head, complete, 1 108, SB, Childe 1929, 245
cattle/deer metatarsal, broken, 1 125, NMS HA 485, Childe 1929, 290
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?cattle metapodial, broken, 1 95, THM, Childe 1930, 350
der metapodial, 1 128, SB, Childe 1930, 402
sheep tibia, complete, 1 102, SM A262, Childe 1930, 449
cattle metapodial, ground head, broken, 1 98, SB, Childe 1930, 531
cattle metapodial, ground head, broken, 1 82, NMS HA unreg, Childe 1930, 7583
cattle metapodial, ground head, broken, 1 81, SM A262, Childe 1930, 7591
cattle metapodial, ground head, complete, 1 153, SB, Childe 1930, 600
cattle metapodial, ground head, complete, 1 159, THM 1983/166, Childe 67 pencil, Fig 6.5
deer/cattle metapodial, 1 84, BM 1938 1-1 20, Childe 164 pencil
cattle metapodial, complete, 1 96, THM
sheep radius, complete, 1 75, THM
compact bone, rounded head, complete, 1 138, THM
?cattle metapodial, immature, almost complete, 1 86, SM, ?171
sheep ?ulna, complete, 1 136, BM 1938 1-1 168
cattle/deer metatarsal, ground head, complete, 1 80, NMS HA 372b, Pl 6.6
cattle metatarsal, ground head, complete, 1 154, NMS HA 372d, Pl 6.6

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430 cattle metacarpal, complete, 1 146, NMS HA 330, Fig 6.5, Pl 6.6
431 cattle/deer metapodial, ground head, complete, 1 102, NMS HA 389a
432 cattle/deer metapodial, ground head, complete, 1 127, NMS HA 389c, Fig 6.5, Pl 6.6
433 cattle/deer metapodial, broken, 1 85, NMS HA 490

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434 sheep metapodial, ground head, perforated, complete, 1 74, NMS HA 405, Watt, Fig 6.4, Pl 6.5
435 compact bone, ground head, perforated, complete, 1 60, NMS HA 437, Childe 1928, 155
436 sheep metapodial, ground head, perforated, complete, 1 69, NMS HA 399, Childe ?1930, 357, Pl 6.5
437 sheep metapodial, ground head, perforated, broken, 1 66, NMS HA 400, Pls 6.5, 6.7

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438 sheep metapodial, ground head, complete, single groove below head, 1 60, NMS HA 406, Childe 1928, 147, Pl 6.5
439 sheep metapodial, ground head, complete, remains of single groove below head, 1 61, NMS HA 354
440 ?deer metapodial, proximal, complete, single groove below head, 1 77, NMS HA 407, Pl 6.5
441 sheep metapodial, complete, single groove below head, 1 77, NMS HA 407a, Fig 6.4, Pl 6.5

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442 ?sheep metapodial, ground head, 3 horizontal grooves on shaft, almost complete, 1 82, SM A255, Watt
443 cattle/deer metapodial, ground head, complete, herringbone grooving on shaft, 4 strokes on one side and 3 strokes on the other, 1 135, NMS HA 329, Watt, Fig 6.5
444 cattle/deer metapodial, ground head, complete, 3 horizontal grooves below head with 2 oblique grooves between the lower 2, 1 89, NMS HA 328, Paterson 1927, 12, Fig 6.5

445 sheep metapodial, ground head, complete, 3 oblique grooves on shaft, 1 92, THM 1983/167, Childe 1930, 365

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446 sheep metapodial, ground head, complete, 1 72, SM A255, Watt
447 sheep metatarsal, proximal, complete, 1 85, SM A255, Watt
448 sheep metapodial, complete, 1 95, SM A255, Watt
449 sheep metapodial, ground head, complete, 1 81, SM A255, Watt
450 sheep metapodial, ground head, complete, 1 80, SM A255, Watt
451 cattle metapodial, complete, 1 169, SM ?A255/258, Watt
452 cattle metapodial, ground head, complete, 1 122, SM ?A255/258, Watt
453 sheep metapodial, rounded head, complete, 1 118, THM S.13, Watt
454 sheep metapodial, broken, 1 65, THM S.19, Watt
455 cattle metacarpal, ground head, complete, 1 128, NMS HA 51, Watt, Fig 6.6
456 sheep metatarsal, proximal, broken, 1 85, NMS HA 55, Watt
457 sheep metatarsal, immature, complete, 1 88, NMS HA 62, Watt
458 sheep metatarsal, complete, 1 76, NMS HA 70, Watt, Fig 6.6
459 cattle metacarpal, complete, 1 178, NMS HA 484, Watt
460 sheep metapodial, broken, 1 66, NMS HA 411 L.1933.228, Paterson 1927, 36
461 ?sheep metapodial, broken, 1 46, SM A262, Childe 1928, 3
462 sheep metapodial, heavily ground, complete, 1 70, NMS HA 409, Childe 1928, 24
463 sheep metapodial, immature, almost complete, 1 69, SM A262, Childe 1928, 215
464 sheep metatarsal, complete, 1 77, THM 1983/173, Childe 1928, 224
465 sheep metatarsal, complete, 1 126, NMS HA 319, Childe 1928, 273, Fig 6.6

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466 sheep metapodial, ground head, broken, 1 93, BM 1938 1-1 16, Childe 1928, 230, Chamber 7

467 sheep metapodial, immature, complete, 1 68, SM A262, Childe 1928, 7394

468 sheep metacarpal, ground head, complete, 1 79, NMS HA 320a, Childe 1929, 8

469 sheep metapodial, immature, complete, 1 80, SB, Childe 1929, 169

470 sheep metapodial, almost complete, 1 61, SM A262, Childe 1929, 181

471 sheep metapodial, complete, 1 66, BM 1938 1-1 17, Childe 1929, 186

472 sheep metatarsal, proximal, complete, 1 100, NMS HA 401, Childe 1929, 291

473 sheep tibia, complete, 1 197, NMS HA 487, Childe 1929, 309

474 sheep metapodial, ground head, complete, 1 89, SM A262, Childe 51 green

475 cattle metatarsal, ground head, almost complete, 1 132, SM A262, Childe

476 sheep metapodial, complete, 1 98, SB

477 sheep metapodial, eroded head, 1 84, NMS HA 410

478 sheep metatarsal, broken, 1 65, NMS HA 411 L.1933.239

479 compact bone, broken, 1 61, NMS HA 411 L.1933.236

BIRD BONE POINTS

480 ?humerus, complete, 1 107, SM A255, Watt

481 ?ulna, almost complete, 1 95, SM A255, Watt

482 ?humerus, broken, 1 106, SM A255/258, Watt

483 ?humerus, complete, 1 112, SM A255/258, Watt

484 ?humerus, broken, 1 145, SM A255/258, Watt

485 ?humerus, almost complete, 1 126, SM A255/258, Watt

486 gannet humerus, complete, 1 130, NMS HA 57, Watt, Pl 6.8

487 compact bone, broken, 1 84, NMS HA 58, Watt

488 gannet humerus, complete, 1 91, NMS HA 59, Watt, Fig 6.6

489 humerus, broken, 1 139, NMS HA 60, Watt

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490  gannet humerus, ground head, complete, 1 120, NMS HA 324, Paterson 1927, 35

491  gannet humerus, almost complete, 1 111, THM 1983/171, Childe 1928, 10

492  gannet humerus, complete, 1 88, NMS HA 320, Childe 1929, 59
493  ?humerus, broken, 1 121, THM, Childe 1929, 89
494  gannet humerus, broken, 1 81, THM, Childe 1929, 168
495  gannet humerus, complete, 1 134, NMS HA 321, Childe 1929, 223, Pl 6.8
496  humerus, complete, 1 110, BM 1938 1-1 18, Childe 1929, 271
497  humerus, almost complete, 1 140, BM 1938 1-1 19, Childe 1929, 274
498  humerus, broken, 1 81, SM A262, Childe 1929

499  gannet humerus, ground head, complete, 1 96, NMS HA 325, Childe ?1930, 317
500  humerus, ground head, complete, 1 93, SM A262, Childe 1930, 348
501  compact bone, broken, 1 72, SM A262, Childe 1930, 439
502  ?humerus, broken, 1 77, THM, Childe 1930, 509
503  gannet humerus, complete, 1 116, THM 1983/172, Childe 1930, 544
504  compact bone, broken, 1 124, SB, Childe ?43 pencil
505  ?gannet humerus, broken, 1 125, NMS HA 327, Childe 319 pencil

506  compact bone, broken, 1 120, SB
507  gannet humerus, complete, 1 73, SB
508  gannet humerus, broken, 1 94, SB
509  gannet humerus, complete, 1 127, NMS HA 322
510  gannet humerus, complete, 1 114, NMS HA 323
511  gannet humerus, complete, 1 86, NMS HA 326
512  gannet humerus, complete, 1 117, NMS HA 327a
513  gannet humerus, complete, 1 71, NMS HA 327b
514  gannet humerus, complete, 1 118, NMS HA 328a
515 ulna, complete, 1 74, NMS HA 328b
516 compact bone, broken, 1 46, NMS HA 411 L.1933.2024

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517 compact bone, flattened head, broken, 1 104, SM A255, Watt
518 compact bone, broken, 1 56, SM A255, Watt
519 compact bone, broken, 1 77, SM A255, Watt
520 sheep metapodial, ground head, complete, 1 130, SM A255, Watt
521 compact bone, ?complete, 1 74, SM A255, Watt
522 sheep metapodial, ground head, complete, 1 97, SM A255, Watt
523 compact bone, flattened head, broken, 1 35, SM A255, Watt
524 sheep metapodial, ground head, complete, 1 119, SM ?A255/258, Watt
525 sheep metapodial, ground head, complete, 1 105, SM ?A255/258, Watt 30
526 ?sheep metapodial, ground head, complete, 1 111, SM ?A255/258, Watt
527 compact bone, broken, 1 49, NMS HA 80, Watt
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529 sheep metapodial, proximal, ground head, complete, 1 100, NMS HA 395, Paterson 1927, 32, Fig 6.6
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684 compact bone, complete, 1 123, NMS HA 43, Watt
685 cattle/deer metapodial, 1 124, NMS HA 44, Watt
686 sheep tibia, complete, 1 167, NMS HA 52, Watt
687 sheep tibia, complete, 1 138, NMS HA 53, Watt
688 sheep tibia, complete, 1 208, NMS HA 111, Watt
689 deer/cattle metacarpal, complete, 1 119, THM, Paterson 1927, 39
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691 sheep tibia, broken, 1 110, NMS HA 497, Childe 1929, 31
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693 deer/cattle tibia, perforated, broken, 1 108, NMS HA 585, Childe 1929, 79
694 cattle metapodial, 1 131, BM 1938 1-1 30, Childe 1929, 202
695 sheep tibia, complete, 1 110, NMS HA 498, Childe 1929, 215
696 sheep tibia, complete, 1 164, THM, Childe 1929, 232

697 sheep tibia, perforated, broken, 1 162, NMS HA 500, Childe 1930, 358
698 sheep metatarsal, complete, 1 92, SM A262, Childe 1930, 376
699 sheep tibia, broken, 1 98, THM, Childe 1930, 454
700 compact bone, complete, 1 101, NMS HA 502, Childe 1930, 463
701 sheep tibia, complete, 1 139, THM, Childe 1930, 512
702 cattle metacarpal, 1 126, BM 1938 1-1 31, Childe 1930, 517
703 compact bone, broken, 1 95, SM A262, Childe 1930, 623
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705 compact bone, complete, 1 130, SB, Childe 43 pencil
706 sheep tibia, complete, 1 174, THM, Childe 216 pencil

707 compact bone, complete, 1 149, NMS HA 464
708 compact bone, complete, 1 165, NMS HA 501, Fig 6.9
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710 complete, 1 66, SM A255, Watt
711 broken, 1 70, SM A255, Watt
712 complete, 1 81, SM A255, Watt
713 complete, 1 77, SM A255, Watt
714 broken, 1 55, SM A255, Watt
715 complete, 1 87, SM A255, Watt 10
716 complete, 1 66, SM A255, Watt
717 complete, 1 66, SM A255, Watt
718 complete, 1 112, THM S.7, Watt
719 complete, 1 98, THM S.8, Watt

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720 complete, 1 79, BM 66 8-1 13, Watt
721 complete, 1 67, BM 66 8-1 14, Watt
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723 complete, 1 69, NMS HA 92, Watt, Pl 6.13
724 broken, 1 69, NMS HA 93, Watt
725 broken, 1 82, NMS HA 95, Watt
726 broken, 1 66, NMS HA 96, Watt, Pl 6.13
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730 complete, 1 61, NMS HA 474, Childe 1928, 2
731 complete, 1 71, NMS HA 469, Childe 1928, 16
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742 complete, 1 102, NMS HA 467, Childe 1928, 314
743 broken, 1 71, BM 1938 1-1 56, Childe 1928, 332
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747 complete, 1 61, BM 1938 1-1 22b, Childe 1929, 35
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750 complete, 1 63, BM 1938 1-1 21, Childe 1929, 247
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753 broken, 1 44, BM 1938 1-1 22c, Childe 1930, 407
754 complete, 1 103, NMS HA 466, Childe 1930, 464, PI 6.13

755 complete, 1 65, BM 1938 1-1 22a, Childe 385 pencil
756 complete, 1 116, NMS HA 478c, Childe 521 pencil, Fig 6.10

757 complete, 1 64, THM 36
758 complete, 1 89, THM
759 complete, 1 107, THM
760 complete, 1 69, SM
761 complete, 1 56, NMS HA 476
762 complete, 1 53, NMS HA 477
763 complete, 1 61, NMS HA 478a
764 complete, 1 94, NMS HA 478b
765 complete, 1 88, NMS 'Hut 2, Cell'

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766 blade, broken, 1 87, SM ?A255/258, Watt
767 blade, broken, 1 84, SM ?A255/258, Watt
768 blade, broken, 1 99, SM ?A255/258, Watt
769 cattle metacarpal, complete, 1 127, SM ?A255/258, Watt
770 cattle metacarpal, broken, 1 107, SM ?A255/258, Watt
771 blade, broken, 1 90, SM ?A255/258, Watt
772 cattle metacarpal, complete, 1 108, SM ?A255/258, Watt 20
773 cattle metatarsal, complete, 1 127, SM ?A255/258, Watt 21
774 cattle metacarpal, complete, 1 180, THM S.3 Watt
775 cattle metacarpal, almost complete, 1 128, NMS HA 32, Watt
776 cattle metacarpal, broken, 1 145, NMS HA 33, Watt
777 cattle metacarpal, ground sagittal ridge on upper surface, broken, 1 122, NMS HA 34, Watt
778 cattle metatarsal, perforation through lateral edges, complete, 1 120, NMS HA 35, Watt, Fig 6.10
779 cattle metacarpal, complete, 1 88, NMS HA 36, Watt
780 cattle metacarpal, ground sagittal ridges on upper surfaces, complete, 1 87, NMS HA 37, Watt, Fig 6.10
781 blade, broken, 1 75, NMS HA 38, Watt
782 blade, broken, 1 160, NMS HA 40, Watt
783 cattle metatarsal, broken, 1 128, NMS HA 41, Watt
784 blade, broken, 1 72, NMS HA 94, Watt
785 blade, broken, 1 39, NMS HA 98, Watt

786 cattle metacarpal, broken, 1 95, THM, Childe 1928, 67
787 cattle metatarsal, complete, 1 109, THM 1983/179, Childe 1928, 191
788 cattle metacarpal, broken, 1 124, BM 1938 1-1 26, Childe 1928, 214
789 cattle metacarpal, ground sagittal ridges on upper surfaces, complete, 1 204, NMS HA 445, Childe 1928, 269, Fig 6.11
790 cattle metacarpal, broken, 1 171, THM, Childe 1928, 270
791 cattle metacarpal, broken, 1 128, BM 1938 1-1 25, Childe 1928, 278
792 cattle metapodial, decayed, 1 78, BM 1938 1-1 28c, Childe 1928, 299
793 cattle metatarsal, broken, 1 207, NMS HA 449, Childe 1928, 337
794 cattle metacarpal, complete, 1 120, SM A262, Childe 1928, 351
795 cattle metacarpal, complete, 1 156, NMS HA 451, Childe 1928, 355, Pl 6.14

796 cattle metatarsal, perforation through lateral edges, broken, 1 105, THM, Childe 1929, 26
797 cattle metacarpal, complete, 1 110, BM 1938 1-1 27, Childe 1929, 85
798 cattle metacarpal, broken, 1 111, THM, Childe 1929, 170
799 cattle metacarpal, complete, 1 115, NMS HA 448, Childe 1929, 257, Pl 6.14

800 cattle metacarpal, complete, 1 114, SB, Childe 1930, 335
801 blade, broken, 1 97, SB, Childe 1930, 336
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803 cattle metacarpal, ground sagittal ridges on upper surfaces, broken, 1 115, NMS HA 450, Childe 1930, 453
804 cattle metatarsal, broken, 1 123, BM 1938 1-1 24, Childe 1930, 510
805 cattle metacarpal, ground sagittal ridges on upper surfaces, complete, 1 99, NMS HA 446, Childe 1930, 520

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806  cattle metacarpal, broken, 1 108, THM, Childe 1930, 546
807  cattle metatarsal, proximal, unperforated, almost complete, 1 127, NMS HA 504, Childe 1930, 575
808  cattle metapodial, broken, 1 75, THM, Childe 1930, 608
809  blade, broken, 1 101, BM 1938 1-1 28b, Childe 1930, 608
810  blade, broken, 1 106, BM 1938 1-1 28a, Childe 1930
811  cattle metacarpal, complete, 1 140, NMS HA 447, Childe 6 pencil
812  cattle metacarpal, complete, 1 113, SB, Childe 347 pencil
813  cattle metatarsal, complete, 1 121, THM 530
814  cattle metatarsal, complete, 1 125, THM 530
815  cattle metacarpal, complete, 1 129, THM 531
816  cattle metatarsal, complete, 1 135, THM
817  cattle metacarpal, in process of manufacture, perforated bone, 1 215, THM
818  cattle metacarpal, complete, 1 111, SM
819  cattle metatarsal, broken, 1 127, SB
820  cattle metatarsal, complete, 1 140, SB
821  cattle metacarpal, broken, 1 80, SB

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822  broken, W-shaped, 1 186, SM ?A255/258, Watt
823  broken, 1 102, SM ?A255/258, Watt
824  cattle, U-shaped, almost complete, 1 213, SM ?A255/258, Watt
826  cattle, W-shaped, broken, 1 170, THM, Watt in Petrie 39
827  cattle, U-shaped, almost complete, 1 211, NMS HA 113, Watt
828  cattle, W-shaped, complete, 1 210, NMS HA 171, Watt, Fig 6.12
829  cattle, W-shaped, broken, 1 225, SM A262, Childe 1928, 271
830  cattle, U-shaped, almost complete, 1 215, BM 1938 1-1 50, Childe 1929, 48
831  cattle, W-shaped, broken, 1 258, THM 1983/178, Childe 1929, 48
832  cattle, W-shaped, broken, 1 197, SB, Childe 1929, 98

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833 cattle, W-shaped, almost complete, 1 216, THM, Childe 1929, 98
834 cattle, W-shaped, complete, 1 264, SM A262, Childe 1929, 109
835 cattle, U-shaped, almost complete, 1 240, NMS HA 514a, Childe 1929, 109
836 cattle, W-shaped, broken, 1 35, THM, Childe 1929, 282
837 cattle, broken, 1 215, BM 1938 1-1 162, Childe 1930, 321
838 cattle, U-shaped, complete, 1 190, NMS HA 514, Childe 1930, 340, Fig 6.13, Pl 6.15
839 cattle, U-shaped, broken, 1 213, BM 1938 1-1 51, Childe 1930, 341
840 cattle, ?U-shaped, broken, 1 232, SB, Childe 1930, 436
841 cattle, U-shaped, almost complete, 1 205, NMS HA 512, Childe 1930, 602
842 cattle, broken, 1 163, NMS HA 506, Childe 7 pencil
843 cattle, ?W-shaped, broken, 1 136, SM A262, Childe 585 was 285 = ?1930 pencil
844 cattle, broken, 1 239, SB, Childe 595 was 295 pencil = ? 1930
845 cattle, broken, THM KR
846 ?cattle, U-shaped, complete, 1 245, SM
847 ?cattle, broken, 1 79, SB
848 cattle, broken, 1 178, SB
849 ?cattle, broken, 1 87, SB
850 cattle, broken, 1 178, BM 1938 1-1 163
851 ?cattle, broken, 1 158, NMS HA 505, Pl 6.15
852 cattle, U-shaped, complete, 1 228, NMS HA 511
853 cattle, W-shaped, broken, 1 218, NMS HA 513
854 ?cattle, W-shaped, broken, 1 101, NMS HA 515
855 ?cattle, W-shaped, broken, 1 123, SM on loan to NMS
856 ?cattle, W-shaped, broken, 1 72, SM on loan to NMS
857 deer/cattle, W-shaped, broken, 1 78, SM on loan to NMS
858 cattle/deer, W-shaped, broken, 1 155, SM on loan to NMS
859 cattle/deer, broken, 1 91, SM on loan to NMS

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860  ?deer, complete, 1 53, NMS HA 131, Watt

861  ?deer, complete, 1 52, NMS HA 520, Childe 1928, 7309

862  cattle, complete, 1 66, THM 1983/180, Childe 1929, 49
863  cattle, complete, 1 66, THM, Childe 1929, 187
864  cattle, complete, 1 78, THM, Childe 1929, 187
865  cattle, complete, 1 70, BM 1938 1-1 48, Childe 1929, 187
866  cattle, complete, 1 73, SB, Childe 1929, 187
867  cattle, complete, 1 62, BM 1938 1-1 47, Childe 1929

868  cattle, complete, 1 68, SB, Childe 1930, 337

869  cattle, complete, 1 66, NMS HA 519, Childe 143 pencil, Fig 6.14
870  cattle, complete, 1 82, NMS HA 517, Childe 229 green, Fig 6.14

871  cattle, complete, 1 71, SM A262, Childe Chamber 4
872  cattle, complete, 1 68, SB
873  cattle, complete, 1 76, SB
874  sheep, complete, 1 28, THM 1983/187
875  cattle, complete, 1 71, NMS HA 518
876  cattle, complete, 1 63, SM on loan to NMS
877  cattle, complete, 1 72, SM on loan to NMS
878  cattle, complete, 1 71, SM on loan to NMS
879  cattle, complete, 1 71, SM on loan to NMS
880  cattle, complete, 1 61, SM on loan to NMS
881  cattle, complete, 1 67, SM on loan to NMS
882  cattle, complete, 1 74, SM on loan to NMS
883  deer, complete, 1 49, SM on loan to NMS

CUPS & VESSELS

884  large cetacean vertebra vessel in process of manufacture?, diam 965, NMS HA 589a, Watt

885  small cetacean vertebra containing red pigment, diam 113 x 92, THM 1983/177, Childe 1928, 266, Fig 6.14
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<td>small cetacean vertebra containing red pigment, diam 86 x 50, NMS HA 586</td>
<td>Childe 1928, 321, Fig 6.15</td>
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<td>887</td>
<td>long bone unfused epiphysis containing red pigment, THM 1983/189</td>
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<td>cetacean vertebra cup, diam 235 x 225, SM</td>
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<td>large cetacean vertebra bowl, diam 292, NMS HA 577a</td>
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<td>890</td>
<td>large cetacean vertebra bowl, broken, ht 130, NMS HA 577b</td>
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<td>891</td>
<td>small cetacean vertebra containing red pigment, diam 51, NMS HA 587</td>
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<td>892</td>
<td>large fish vertebra containing red pigment, diam 25, NMS HA 588</td>
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<td><strong>ANTLER SOCKETS/MACEHEAD</strong></td>
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<td>893</td>
<td>adze sleeve, perforated and hollowed, 1 41, NMS HA 578</td>
<td>Childe 1930, 385, Fig 6.15</td>
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<td>894</td>
<td>? macehead/axe socket, broken, 1 93, THM</td>
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<td>895</td>
<td>shed, brow tine worn, 1 350, BM 1938 1-1 49, Childe</td>
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<td><strong>ANTLER</strong></td>
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<td>896</td>
<td>base, burr and beam, shed, chopped, 1 240, THM on loan to NMS KD 36</td>
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<td>897</td>
<td>base, burr and beam, shed, chopped, broken, 1 190, NMS HA 119</td>
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<td>beam, chopped, 1 240, SB on loan to NMS</td>
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<td>899</td>
<td>beam, polished, broken, 1 210, NMS HA 521</td>
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<td>900</td>
<td>beam, shed, THM</td>
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<td>901</td>
<td>crown, smoothed and polished, 1 90, SB on loan to NMS SM 15</td>
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<td>902</td>
<td>crown, polished, broken, 1 75, NMS HA 521 L.1933.1853</td>
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<td>tines x 7, broken, SM A264</td>
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<td>tine, smoothed, BM 1938 1-1 52</td>
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<td>908</td>
<td>tine, chopped, THM</td>
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909  tine, chopped, polished shaft and tip, 1 170, SB on loan to NMS SM 5
910  tine, smoothed and polished, 1 60, SB on loan to NMS SM 12
911  tine, chopped, 1 300, NMS HA 521 L.1933.1851, Childe 1929, 244
912  tine, chopped, broken, 1 130, HA 521 L.1933.2015

BEADS
913  26 beads, THM S.25 on loan to NMS KD1, 12 large bone, 14 large disc
914  17 beads, THM S.26 on loan to NMS KD5, 1 tooth root, 15 bone, 1 small disc
915  1 bead, BM 78 11-12 1, large bone, Watt
916  91 beads, NMS HA 99, 6 tooth root, 3 large bone, 46 bone (2 segmented 2), 2 large disc, 34 small disc
917  1 bead, NMS HA 101, tooth root (2 segmented)
918  119 beads, BM 1938 1-1 66, 115 tooth root, Paterson 1927, 3 bird bone, 1 small disc
919  5 beads, NMS HA 524 L.1933.1786-1790, 1 bone, 1 large disc, 3 small disc, Paterson 1927, 24, 32, 37
920  2 beads, NMS HA 524a, 1 large bone with recessed ends, 1 small bone, Paterson 1927, 34
921  1 bead, THM on loan to NMS KD 29, 1 large disc, Paterson 1927, 45

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922 125 beads, NMS HA 523, 106 tooth root (6 segmented 2)
   10 bone
   3 bird bone
   4 small disc
   2 unusual shapes
Paterson 1927, 11, 32; Childe 1928, 283, 287;
   Childe 1929, 171, 172, 173; Childe 1930, 353,
   417, 477

923 101 beads, NMS HA 526 L.1933.1521–1619, 59 tooth root
   13 bone
   29 small disc
Paterson, 1927, 37; Childe 1928, 272

924 170 beads, NMS HA 526a, 136 tooth root (1 segmented 2)
   28 bone
   9 large disc
   6 small disc
   1 squared, perforated
Paterson 1927, 37; Childe 1928, 39, 87, 277;
   Childe 1929, 2

925 17 beads, SM on loan to NMS Stromness 39, 15 bone
   2 small disc
Childe 1928, 1, 31, 32, 33, 44, 62, 71, 75,
   83, 150, 156, 157, 190, 283, 343

926 33 beads, SM A262, 29 tooth root
   3 bone
   1 small disc
Childe 1928, 733

927 1 bead, SM on loan to NMS Stromness 37, 1 large bone
Childe 1928, 66

928 1 bead, SB on loan to NMS SM 25, 1 tooth root (segmented 2)
Childe 1928, 74

929 25 beads, NMS HA 524 L.1933.1279–1303, 16 bone (1 rib,
   1 cylinder)
   9 small disc
Childe 1928, 260

930 1 bead, NMS HA 531, 1 large bone, cuboid
   Childe 1928, 272,
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931 3 beads, THM on loan to NMS KD, 3 tooth root (3 segmented 3)
   Childe 1928, 272
932 1 bead, THM on loan to NMS KD 11, 1 large bone  
Childe 1928, 287

933 18 beads, SB, 3 tooth root  
1 incisor  
8 bone  
6 small disc  
Childe 1928, 312

934 11 beads, SM A262, 1 large bone  
5 bone (2 segmented 2)  
5 small disc  
Childe 1928, 371

935 1 bead, NMS HA 575, 1 parallelepiped  
Childe 1928, ?382, Pl 6.16

936 2 beads, SM A262, 2 large bone  
Childe 1928, 383

937 100 beads, SM A262, 87 tooth root (1 perforated at right angles to cavity)  
7 bone  
4 bird bone  
2 small disc  
Childe 1928, 383

938 1 bead, BM 1938 1-1 44, bone, large, square section,  
Childe 1928, ?383

939 1 bead, BM 1938 1-1 45, bone, large  
Childe 1928, 383

940 1 bead, BM 1938 1-1 46a, bone, large  
Childe 1928, ?383

941 1 bead, BM 1938 1-1 46b, bone, large  
Childe 1928, ?383

942 1 bead, BM 1938 1-1 46c, bone, large  
Childe 1928, ?383

943 1 bead, BM 1938 1-1 46d, bone, large  
Childe 1928, ?383

944 1 bead, BM 1938 1-1 46e, bone, large  
Childe 1928, ?383

945 1 bead, BM 1938 1-1 46f, bone, large  
Childe 1928, ?383

946 1 bead, THM on loan to NMS KD, 1 bone (segmented 2)  
Childe 1928, ?387

947 6 beads, THM on loan to NMS KD, 5 bone (1 segmented 3, 4 segmented 2), Pl 6.17  
Childe 1928, 387

948 42 beads, SM A262, 42 small disc  
'SW Chamber 7, passage  
Childe 1928

949 1 bead, SM on loan to NMS STROMNESS 36, 1 large bone,  
Childe ?1928

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950 49 beads, THM on loan to NMS KD3, 22 tooth root
   (22 segmented 2)
   27 small disc
Childe 1928, 260; 1929, 36, Pl 6.18

951 1 bead, NMS HA 527, 1 large bone, transverse perforations
   Childe 1929, ?276

952 1 bead, BM 1938 1-1 61, bone (segmented 2)    Childe 1930, 432
953 1 bead, BM 1938 1-1 60, cattle premolar        Childe 1930, 62

954 1 bead, BM 1938 1-1 57, large bone            Childe 303 pencil
955 1 bead, NMS HA 530, 1 large squared disc       Childe 321
956 1 bead, NMS HA 531a, large bone,              Childe 522
957 4 beads, NMS HA 558, 4 tooth root (2 segmented 2,
   2 segmented 3) Childe 547

958 82 beads, THM 'NMAS' - 80 tooth root           Childe
   1 bone
   1 bird bone
959 1 bead, THM, 'NMAS' - bone, segmented 3        Childe
960 41 beads, SM A262, 40 tooth root (21 segmented 2, 1 segmented
   3, 1 segmented 5)
   1 bone                                    Childe
961 13 beads, SM A262, 11 large discs             Childe
   1 small disc                               Childe
   1 flat perforated                          Childe
962 59 beads, SM A262, small discs                Childe
963 1 bead, SM A262, large bone                  Childe
964 46 beads, SM A262, 43 tooth root             Childe
   3 bone                                    Childe
965 29 beads, SM A262, 24 tooth root             Childe
   4 bone                                    Childe
   1 bird bone                               Childe
966 100 beads, SM A262, 97 tooth root (1 segmented 2)
   1 bone                                    Childe
   1 bird bone                               Childe
   1 small disc                               Childe
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<td>967</td>
<td>52</td>
<td>A262</td>
<td>47</td>
<td>bone</td>
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<tr>
<td>968</td>
<td>50</td>
<td>A262</td>
<td>44 (1 segmented 2)</td>
<td>bone, bird bone</td>
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<td>969</td>
<td>49</td>
<td>A262</td>
<td>36 (1 segmented 2)</td>
<td>bone</td>
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<td>970</td>
<td>98</td>
<td>A262</td>
<td>85 (2 perforated at right angles to cavity)</td>
<td>bone, small disc, bird bone</td>
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<td>971</td>
<td>89</td>
<td>A262</td>
<td>86 (1 segmented 2)</td>
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<td>26</td>
<td>A262</td>
<td>25</td>
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<td>973</td>
<td>45</td>
<td>A262</td>
<td>31</td>
<td>bone, small disc</td>
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<td>974</td>
<td>51</td>
<td>A262</td>
<td>51</td>
<td>bone</td>
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<tr>
<td>975</td>
<td>50</td>
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<td>47</td>
<td>bone, bird bone</td>
</tr>
<tr>
<td>976</td>
<td>68</td>
<td>A262</td>
<td>67</td>
<td>bone</td>
</tr>
<tr>
<td>977</td>
<td>34</td>
<td>A262</td>
<td>16</td>
<td>bone, small disc</td>
</tr>
<tr>
<td>978</td>
<td>51</td>
<td>A262</td>
<td>51</td>
<td>bone</td>
</tr>
<tr>
<td>979</td>
<td>35</td>
<td>A262</td>
<td>34</td>
<td>bone, bird bone</td>
</tr>
<tr>
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<td>1938</td>
<td>17</td>
<td>bone</td>
</tr>
<tr>
<td>981</td>
<td>63</td>
<td>1938</td>
<td>1-1 64</td>
<td>bone, bird bone, small disc</td>
</tr>
</tbody>
</table>

- 75 -
982 97 beads, BM 1938 1-1 65, 93 tooth root (1 segmented 2) Childe
   3 bone
   1 bird bone

983 72 beads, BM 1938 1-1 62, 1 tooth root (transverse perforation)
   71 small disc

984 97 beads, BM 1938 1-1 68, 88 tooth root (1 transverse perforation)
   3 bone
   1 bird bone
   4 small disc

985 12 beads, BM 1938 1-1 67, 6 tooth root (2 segmented 2) Childe
   1 bone
   5 small disc

986 99 beads, NMS HA 522 L.1933.330-429, 86 tooth root Childe
   13 bone

987 200 beads, NMS HA 522 L.1933.430-629, 189 tooth root (2 segmented 2, 1 transverse)
   11 bone

988 98 beads, NMS HA 522 L.1933.630-729, 91 tooth root Childe
   4 bird bone
   3 small disc

989 99 beads, NMS HA 522 L.1933.730-829, 94 tooth root Childe
   2 bone
   2 bird bone
   1 large disc

990 100 beads, NMS HA 522 L.1933.830-929, 94 tooth root (1 segmented 2)
   6 bone

991 87 beads, NMS HA 522 L.1933.930-1018, 65 tooth root Childe
   21 bone
   1 small disc

992 40 beads, NMS HA 522 L.1933.1019-1098, 40 tooth root Childe

993 79 beads, NMS HA 522 L.1933.1099-1178, 78 tooth root Childe
   1 bone

994 49 beads, NMS HA 524 L.1933.1179-1228, 30 bone Childe
   3 large disc
   16 small disc

- 76 -
995 50 beads, NMS HA 524 L.1933.1229-1278, 10 large bone Childe
   40 large disc
996 95 beads, NMS HA 525 L.1933.1423-1520, 93 disc Childe
   2 large disc
997 18 beads, NMS HA 526 L.1933.1304-1322, 10 bone Childe
   4 large disc
   4 small disc
998 36 beads, NMS HA 558 L.1933.1620-1655, 31 tooth root (31
   segmented 2)
   5 bone
   (4 segmented 2, segmented 3) Childe
999 99 beads, NMS HA 522 L.1933.1872-1971, 93 tooth root
   (2 segmented 2)
   4 bone Childe
   4 bird bone
1000 17 beads, THM - 16 tooth root
    1 bone
1001 44 beads, SM, 22 tooth root
    14 bone
    3 large bone
    4 large discs
    1 small disc
1002 15 beads, SM 8 tooth root
    6 bone
    1 small disc
1003 61 beads, SM 1 tooth root
    60 small disc
1004 32 beads, SM 2 tooth root (1 segmented 2)
    30 bone (5 segmented 2)
1005 6 beads, NMS HA 159, 6 tooth root
1006 2 beads, NMS HA 522, 2 tooth root
1007 100 beads, NMS HA 525, 100 small disc, Pl 6.18
1008 48 beads, NMS HA 526, 35 tooth root (5 segmented 2)
    3 bone (3 segmented 2)
    1 large bone
    2 large disc
    7 disc
    - 77 -
1009 3 beads, NMS HA 526, 1 tooth root

2 bone

1010 1 bead, NMS HA 528, 1 large disc (transverse)

1011 1 bead, NMS HA 529, 1 bone (transverse) 1 bead, NMS HA 529a

1 bone (longitudinal and transverse cylinder)

1012 1 bead, NMS HA 555, 1 ivory (double perforation)

1013 66 beads, THM on loan to NMS KD 2, 66 bone

1014 74 beads, THM on loan to NMS KD 4, 74 small disc

1015 1 bead, THM on loan to NMS KD 6, 1 large bone

1016 1 bead, THM on loan to NMS KD 7, 1 large bone (double perforation)

1017 1 bead, THM on loan to NMS KD 8, 1 large bone (double perforation)

1018 1 bead, THM on loan to NMS KD 9, 1 large ivory

1019 1 bead, THM on loan to NMS KD 10, 1 large disc

1020 5 beads, THM on loan to NMS KD 12, 9 tooth root

(2 segmented 2)

82 bone

4 small disc, Pl 6.18

1021 98 beads, THM on loan to NMS KD 13, 91 tooth root, Pl 6.19

4 bone

2 bird bone

1 small disc

1022 30 beads, SB on loan to NMS SM 15, 2 tooth root

(2 segmented 2)

20 bone

8 small disc

1023 75 beads, SB on loan to NMS SM 16, 41 tooth root

20 bone

14 small disc

1024 99 beads, SB on loan to NMS SM 17, 70 tooth root

16 bone

3 bird bone

1025 1 bead, SB on loan to NMS SM 18, 1 large ivory

1026 1 bead, SB on loan to NMS SM 19, 1 large bone

1027 1 bead, SB on loan to NMS SM 20, 1 large bone

1028 1 bead, SB on loan to NMS SM 21, 1 bone (1 segmented 2)

1029 1 bead, SB on loan to NMS SM 22, 1 bone (1 segmented 3)
1030 1 bead, SB on loan to NMS SM 23, 1 tooth root (1 segmented 2)
1031 1 bead, SB on loan to NMS SM 24, 1 tooth root (1 segmented 2)
1032 99 beads, SB on loan to NMS SM 26, 95 tooth root
   4 bird bone
1033 100 beads, SB on loan to NMS SM 27, 92 tooth root
   (2 segmented 2)
   1 bone
   7 bird bone
1034 100 beads, SB on loan to NMS SM 28, 97 tooth root
   1 incisor
   2 bird bone
1035 1 bead, THM on loan to NMS KD 30, 1 large bone
1036 91 beads, THM on loan to NMS KD 31, 32 tooth root
   57 bone
   2 small disc
1037 98 beads, THM on loan to NMS KD 32, 84 tooth root
   (1 segmented 2, 1 transverse)
   14 bone
1038 73 beads, THM on loan to NMS KD 33, 72 tooth root
   1 bone
1039 100 beads, THM on loan to NMS KD 34, 98 tooth root, Pl 6.19
   (2 segmented 2)
   2 bone
1040 36 beads, SB on loan to NMS SM 35, 1 tooth root (transverse)
   35 small disc
1041 34 beads, SM on loan to NMS STROMNESS 38, 29 bone
   5 small disc
1042 100 beads, SM on loan to NMS STROMNESS 40, 95 tooth root,
   5 bone
   Pl 6.19
1043 9 beads, 9 tooth root
1044 6 beads, 5 tooth root
   1 bone

BEADS IN PROCESS OF MANUFACTURE
1045 sheep metapodial notched for 4 beads, NMS HA 100, Watt
1046 sheep metapodial notched for 8 beads, NMS HA 556, Watt
1047 bone for making disc beads, notched, 3 beads, NMS HA 571, Watt
1048  bone for making large disc beads, 3 beads, NMS HA 175, Stewart

1049  cattle incisor, apex removed, BM 1938 1-1 58, Paterson 1927, 36

1050  bone cylinder for disc beads, NMS HA 580, Paterson 1927, 39

1051  bone for making disc beads, notched, 4 beads, NMS HA 572, Childe 1928, 320, Fig 6.15

1052  sheep metapodial notched for 6 beads, decayed, THM

1053  large parallelepiped block with marrow cavity, THM

1054  tooth root, unfinished, SM

1055  cattle incisor, apex removed, NMS HA 559

1056  cattle incisor, apex removed, NMS HA 560, Pl 6.16

1057  cattle incisor, apex removed, NMS HA 560a, Pl 6.16

1058  cattle incisor, notched for 2 beads, NMS HA 561

1059  bone for making disc beads NMS HA 566

BEAD MAKING DEBRIS

1060  5 cattle incisor crowns, SM A255/258/262

1061  cattle canine crown, SM A255/258/262

1062  cattle incisor crown, NMS HA 564a, Childe 1928, 53

1063  sheep metapodial end, NMS HA 557, Childe 1928, 370

1064  cattle incisor crown, THM 1983/195, Childe 1929, 103

1065  cattle incisor crown, THM 1983/195, Childe 1929, 145

1066  cattle incisor crown, THM 1983/195, Childe 1929, 148

1067  sheep metatarsal end, THM on loan to NMS KD, Childe 1929

1068  sheep metatarsal end, THM on loan to NMS KD

1069  cattle incisor crown, BM 1938 1-1 59b, Childe 1930, 488

1070  sheep metatarsal end, THM, Childe 1930, 496

1071  cattle incisor crown, BM 1938 1-1 59a, Childe 1930, 502

1072  cattle incisor crown, NMS HA 562

1073  cattle incisor crown, NMS HA 563

1074  cattle incisor crown, NMS HA 564

1075  cattle incisor crown, NMS HA 564b
PENDANTS

1076 tusk, perforated, complete, 1 70, THM on loan to NMS KD 1, S.25, Watt

1077 tusk, perforated, complete, 1 70, THM on loan to NMS KD 1, S.25, Watt

1078 tusk, perforated, complete, 1 41, THM on loan to NMS KD 5, S.26, Watt

1079 tusk, perforated, complete, 1 42, THM on loan to NMS KD 5, S.26, Watt

1080 tusk, perforated, complete, NMS HA 99, Watt

1081 tusk, perforated, complete, NMS HA 99, Watt

1082 bone, perforated, complete, 1 56, THM, Paterson 1927, 40

1083 bone, perforated, complete, 1 78, THM, Paterson 1927, 40

1084 tusk, perforated, complete, 1 64, THM, Paterson 1927, 40

1085 tusk, perforated, complete, 1 54, SB, Paterson 1927, 40

1086 tusk, perforated, complete, 1 60, SB, Paterson 1927, 40

1087 ?whale bone, perforated, broken, 1 35, BM 1938 1-1 161, Paterson 1927, 40

1088 tusk, perforated, complete, 1 76, BM 1938 1-1 37, Paterson 1927, 40

1089 tusk, perforated, broken, 1 53, BM 1938 1-1 41, Paterson 1927, 40

1090 antler/bone, unperforated, complete, 1 39, BM 1938 1-1 42, Paterson 1927, 40

1091 bone, perforated, complete, 1 43, SM A262, Paterson 1927, 40

1092 tusk, perforated, complete, 1 40, THM on loan to NMS KD, Paterson 1927, 40, Fig 6.15

1093 antler, perforated, broken, 1 41, THM on loan to NMS KD, Paterson 1927, 40

1094 tusk, perforated, complete, 1 63, THM on loan to NMS KD, Paterson 1927, 40

1095 tusk, perforated, complete, 1 52, NMS HA 533, Paterson 1927, 40

1096 tusk, perforated, complete, 1 53, NMS HA 537, Paterson 1927, 40

- 81 -
1097 bone, unperforated, complete, 1 32, THM on loan to NMS KD, Childe 1928, 80
1098 antler, unperforated, claw-shaped, 1 38, NMS HA 570, Childe 1928, 99, Pl 6.16
1099 tusk, perforated, broken, 1 41, THM on loan to NMS KD, Childe 1928, 135
1100 tusk, unperforated, notched at both ends, 1 59, NMS HA 549, Childe 1928, 181, Pl 6.16
1101 antler/cetacean bone, perforated, complete, 1 39, Childe 1928, 223, Fig 6.15
1102 tusk, perforated, complete, 1 58, THM on loan to NMS KD, Childe 1928, 230, Fig 6.15
1103 cetacean bone, perforated, complete, 1 46, NMS HA 543, Childe 1928, 240
1104 antler, perforated, complete, 1 66, NMS HA 545, Childe 1928, 242
1105 tusk, perforated, complete, 1 73, NMS HA 535, Childe 1928, 245
1106 antler, perforated, complete, 1 55, SB, Childe 1928, 272
1107 tusk, perforated, complete, 1 36, NMS HA 540, Childe 1928, 272
1108 bone, perforated, complete, 1 41, NMS HA 541, Childe 1928, 272
1109 tusk, perforated, complete, 1 37, NMS HA 542, Childe 1928, 272, Pl 6.16
1110 tusk, perforated, complete, 1 50, NMS HA 534, Childe 1928, 290
1111 tusk, unperforated, complete, 1 63, NMS HA 536, Childe 1928, 298
1112 tusk, perforated, broken, 1 41, BM 1938 1-1 38, Childe 1928, 305, Pl 6.16
1113 bone, perforated, complete, 1 68, BM 1938 1-1 39, Childe 1928, 305
1114 bone, perforated, complete, 1 47, NMS HA 544, Childe 1928, 342
1115 bone, unfinished perforation, 1 24, NMS HA 568, Childe 1928, 342
1116 tusk, unfinished perforation, 1 45, NMS HA 567, Childe 1928, 368
1117 bone, perforated, complete, 1 67, SB, Childe 1928, 276
1118 antler/bone, perforated, complete, 1 32, THM on loan to NMS, Childe 1928, 385

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1119  tusk, perforated, complete, 1 30, NMS HA 539, Childe 1928, Pl 6.16

1120  tusk, perforated, broken, 1 33, THM 'NMAS' Childe
1121  tusk, perforated, complete, 1 32, SM A262, Childe
1122  tusk, perforated, complete, 1 42, SM A262, Childe
1123  tusk, perforated, complete, 1 43, SM A262, Childe
1124  tusk, perforated, complete, 1 55, SM A262, Childe
1125  tusk, perforated, decaying, 1 40, BM 1938 1-1 43, Childe

1126  tusk, perforated, complete, 1 56, THM, Childe 30 pencil
1127  antler, unperforated, complete, 1 42, NMS HA 569, Childe 44 pencil, Pl 6.16
1128  bone, perforated, complete, 1 53, SM A262, Childe 584 red

1129  bone, perforated, complete, 1 29, SM
1130  antler, perforated, complete, 1 47, SB
1131  antler, perforated, complete, 1 48, SB
1132  tooth, ?otter, perforated, complete, 1 34, BM 1938 1-1 195
1133  tooth, ?otter, perforated, complete, 1 34, BM 1938 1-1 196
1134  tusk, perforated, complete, 1 69, THM on loan to NMS KD 2
1135  tusk, perforated, complete, 1 46, THM on loan to NMS KD 3, Pl 6.18
1136  tusk, perforated, complete, 1 35, THM on loan to NMS KD 3, Pl 6.18
1137  tusk, perforated, complete, 1 20, NMS HA 524a
1138  tusk, perforated, complete, 1 89, NMS HA 532
1139  tusk, perforated, complete, 1 39, NMS HA 538
1140  tooth, ?otter, perforated, complete, 1 18, NMS HA 539a, Pl 6.16
1141  tusk, perforated, complete, 1 20, NMS HA 542a, Pl 6.16
1142  tusk, perforated, complete, 1 44, NMS HA 542b
1143  tusk, perforated, complete, 1 46, NMS HA 542c
1144  tusk, perforated, complete, 1 99, NMS HA 546
1145  antler/bone, unperforated, claw-like, 1 39, NMS HA 570a
BOARS' TUSKS

1146 segment with perforation at both ends and an incised, geometric, triangular design, 1 61, NMS HA 554, Paterson 1927, 43

1147 tusk, perforated at tip, 1 95, NMS HA 554a, Childe 1928, 15
1148 segment, 1 49, THM 1983/191, Childe 1928, 200
1149 perforated segment, 1 53, BM 1938 1-1 40, Childe 1928, 305
1150 rectangular segment with two perforations, decorated with incised lines and saltire, 1 53, NMS HA 553, Childe 1928, 305
1151 tusk, notched at both ends, 1 69, NMS HA 550, Childe 1928, 525

1152 segment, ground, 1 57, NMS HA 548, Childe 1929, 58, Pl 6.16
1153 segment, ground, 1 61, NMS HA 534a, Childe 1929, 194
1154 segment, ground, 1 47, NMS HA 547, Childe 1930, 457
1155 perforated segment, 1 48, THM, Childe 101 pencil
1156 segment, notched at tip, 1 73, NMS HA 551, Childe 75 pencil

1157 perforated segment, 1 76, SM
1158 tusk, notched at both ends, broken, 1 56, NMS HA 552

MISCELLANEOUS OBJECTS

1159 unused cattle nasal bone, 1 123, THM S.10, Watt in Petrie 38
1160 cattle nasal bone, slightly notched, 1 132, NMS HA 479, Watt 7
1161 blunt object, broken, 1 100, SM A255, Watt
1162 sheep tibia, immature, double pointed blunt, 1 148, SM ?A255/258, Watt
1163 ?blade, 1 200, SM ?A255/258, Watt
1164 double pointed sheep metatarsal, 1 78, NMS HA 480, Watt 8
1165 cube decorated with notches and dots, 1 18, NMS HA 573, Watt 16, Fig 6.15
1166 cube decorated with notches and dots, 1 23, NMS HA 574, Watt 15
1167 tusk (?walrus), THM, Paterson 1927, 15
1168 ivory playing piece, decorated with groove, lines and dots, 1 37, NMS HA 576, Paterson 1927, 20

1169 broken scapula, THM, Childe 1928, 167
1170 ground plaque, 1 71, THM, Childe 1928, 237
1171 bone flake, 1 50, THM, Childe 1928, 316
1172 molar playing piece, diam 18, NMS HA 565, Childe 1928, ?381
1173 bird bone tube, 1 118, NMS HA 579, Childe 1928, ?358

1174 worked scapula/skull, 1 83, NMS HA 516, Childe 1929, 101
1175 worked bone, ground, 1 40, NMS HA 583, Childe 15 pencil
1176 ground bone, 1 24, SM A262, Childe, 3 red

1177 worked sheep metapodial, 1 75, SM A262
1178 cube of bone, ground, NMS HA 584

CETACEAN BONE
1179 sawn block, 1 117, NMS HA 582, Paterson 1927, 42

1180 vertebra, perforated and with geometric decoration, 1 80, NMS HA 577, Childe 1929, 18
1181 perforated, rounded block, NMS HA 589a, Childe 1929, 242
1182 large perforated rectangle, cancellous, 1 286, NMS HA 589, Childe 1929, 310

1183 cetacean bone ?macehead, perforated, broken, 1 80, SB on loan to NMS
1184 epiphyseal plate, perforated, diam 52, NMS HA 581, Fig 6.15
1185 block with rounded ends, 1 186, SB on loan to NMS
1186 shaped block, 1 75, SB on loan to NMS
1187 ?walrus baculum, trimmed, 1 525, SB on loan to NMS
1188 cut piece from epiphysis, 1 206, SB on loan to NMS

NATURALLY POLISHED PIECES OF BONE
1189 compact, 1 75, SM A255, Watt
1190 compact, 1 113, SM ?A255/258, Watt
1191 compact, 1 100, SM ?A255/258, Watt
1192 compact, 1 88, SM ?A255/258, Watt
1193 compact, 1 99, SM ?A255/258, Watt
1194 compact, 1 79, SM ?A255/258, Watt 9
1195 compact, 1 100, SM ?A255/258, Watt
1196 compact, 1 74, SM ?A255/258, Watt
1197 compact, 1 50, SM ?A255/258, Watt
1198 compact, 1 122, NMS HA 50, Watt
1199 compact, 1 47, NMS HA 97, Watt

1200 compact, 1 76, THM, Childe 1928, 177
1201 compact, 1 86, NMS HA 494, Childe 1928, 192
1202 compact, 1 98, NMS HA 495, Childe 1928, 338
1203 compact, 1 159, NMS HA 491, Childe 1928, 353

1204 compact, 1 75, THM, Childe 1929, 297
1205 compact, 1 66, THM, Childe 1930, 561
1206 compact, 1 88, NMS HA 493, Childe 1930

1207 compact, 1 112, NMS HA 492
1208 compact, 1 38, NMS HA 507
1209 compact, 1 30, NMS HA 508

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CATALOGUE OF OBJECTS FROM THE BROCH OF MIDHOWE, ROUSAY, ORKNEY

POINTS
1 sheep ulna, complete, 1 114, NMS GAM 20
2 gannet ulna, almost complete, 1 80, NMS GAM 21, Fig 7.3
3 sheep metacarpal, complete, 1 56, NMS GAM 32, Fig 7.3
4 compact bone, complete, 1 89, NMS GAM 182, Fig 7.3

POINTS/PINS
5 pig fibula, broken, 1 93, NMS GAM 22, Fig 7.3
6 pig fibula, complete, 1 95, NMS GAM 23, Fig 7.3
7 compact bone, broken, 1 63, NMS GAM 26, Fig 7.3

PINS
8 compact bone, broken, 1 102, NMS GAM 24, Fig 7.3
9 compact bone, broken, 1 85, NMS GAM 25, Fig 7.3, PI 7.1
10 compact bone/antler, broken, 1 32, NMS GAM 28, Fig 7.3

PINHEAD
11 cattle premolar, perforated, broken; 1 25, NMS GAM 48, peat-like layer, compartment C to SW of tank, Fig 7.3

BLUNTS
12 cattle innominate or scapula, complete, 1 128, NMS GAM 29, peat-like layer, compartment C between tank and divisional wall, Fig 7.3
13 sheep tibia, broken, 1 116, NMS GAM 30, Fig 7.3
14 compact bone, broken, 1 65, NMS GAM 39, Fig 7.3
15 compact bone, complete, 1 95, NMS GAM 182

SPATULAE
16 sheep metatarsal, ground head, complete, 1 111, NMS GAM 12, Fig 7.3
17 sheep metatarsal, complete, 1 105, NMS GAM 13, W end of cubicle in compartment C, Fig 7.3
18 sheep metatarsal, ground head, 1 109, NMS GAM 14, peat-like layer, compartment compartment C NE of tank, Fig 7.4, PI 7.2
19 sheep metacarpal, eroded, complete, 1 103, NMS GAM 15
20 sheep metapodial, ?immature, broken, 1 91, NMS GAM 16, peat-like layer, compartment C, E side
21 sheep metatarsal, complete, 1 110, NMS GAM 17, floor level in lobby of compartment C
22 sheep metacarpal, ground head, complete, 1 116, NMS GAM 18, Fig 7.4

PEGGED PLATE, LARGE
23 cetacean bone, roughly rectangular, 6 peg holes, 3 holes in a line at each end, almost complete, 1 236, NMS GAM 55, floor level in lobby of compartment C, Fig 7.4

PEGGED PLATES, SMALL
24 antler, beam, 2 peg holes, 1 peg, surface decorated with parallel cuts, broken, 1 159, NMS GAM 67, Fig 7.5
25 antler, tine, two large peg holes, almost complete, 1 165, NMS GAM 68, peat-like layer, compartment C, NE of tank, Fig 7.5
26 antler, beam, 2 peg holes, broken, 1 143, NMS GAM 70, Fig 7.5
27 antler, beam, 2 peg holes, broken, 1 66, NMS GAM 71, ?Chamber H2 on top of wall by S entrance, Fig 7.4
28 antler, beam, unfinished and unperforated, broken, 1 101, GAM 90, Fig 7.4, Pl 7.4
29 antler, beam, 3 peg holes, broken, 1 105, GAM 182, Fig 7.5
30 antler, peg, complete, 1 40, NMS GAM 182, Fig 7.5

HANDLES
31 antler, tine, rectangular socket, complete, 1 222, NMS GAM 69, floor level, lobby of compartment C
32 antler, beam, sub-oval socket, broken, 1 115, NMS GAM 72, Fig 7.5, Pls 7.3, 7.4
33 antler, beam, sub-oval socket, broken, 1 119, NMS GAM 73, Fig 7.6

SOCKET
34 antler, base and burr, narrow, rectangular socket, circular shaft hole, complete, 1 102, NMS GAM 179, Fig 7.6
SOCKET

35 deer metatarsal, perforated, ?binding marks, broken, 1 95, NMS GAM 181, Fig 7.6

SOCKETED OBJECTS

36 cetacean phalanx, sub-square socket, complete, 1 310, NMS GAM 53, outside S wall of broch, 9 inches above rock

37 ?cetacean bone, ?square socket, broken, 1 108, NMS GAM 58

CROSS PIECES?

38 antler, beam, narrow longitudinal circular perforation, large circular transverse perforation, complete, 1 70, NMS GAM 65, high up in debris within entrance passage to mural cell A, Fig 7.6

39 antler, beam, large circular transverse perforation, broken, 1 75, NMS GAM 66, at foot of rock cut steps to SE of broch

40 antler, tine, circular transverse perforation with rectangular notches above and below, broken, 1 75, NMS GAM 94, compartment H3, Fig 7.7

COMBS, LONG-HANDLED

41 cetacean bone, fish-tailed, waisted, 13 teeth, 10 complete, 1 112, NMS GAM 2, floor of lobby compartment C, Fig 7.7, Pl 7.5

42 cetacean bone, fish-tailed, waisted, 9 (?+) teeth, 7 complete, 1 122, NMS GAM 3, Fig 7.7

43 cetacean bone, fish-tailed but broken, waisted, 5+ teeth, all broken, 1 101, NMS GAM 4, floor of cubicle, compartment C, Fig 7.7, Pl 7.5

44 antler, eroded butt, waisted, 9 teeth, 9 complete, 1 134, NMS GAM 5, southern cell K, Fig 7.8, Pl 7.5

45 cetacean bone, fish tail, waisted, 11 teeth, 7 complete, 1 125, NMS GAM 6, E of centre of divisional wall, compartment D, Fig 7.8, Pl 7.5

46 antler, broken butt, ?perforated, waisted, 8 teeth, 1 almost complete, 1 103, NMS GAM 7, E of centre of divisional wall, compartment D, Fig 7.8
47 antler, broken butt, slightly concave sides, decorated with incised saltire, 10 teeth, 3 complete, 1 69, NMS GAM 8, NE cubicle, compartment D, Fig 7.7
48 cetacean bone, flat butt, straight sides, 8 teeth, 7 complete, 1 88, NMS GAM 9, peat-like layer compartment C, NE of tank, Fig 7.7, Pl 7.6
49 antler, butt broken, straight sides, 9 teeth, 9 complete but unfinished, 1 77, NMS GAM 10, 5 ft above floor in cubicle, compartment C, Fig 7.8, Pls 7.7, 7.8
50 cetacean bone, fish-tailed but broken, waisted, 10+ teeth, grooved but unsawn, 1 108, NMS GAM 11, Fig 7.8, Pl 7.7
51 antler, fish-tailed, waisted, 8+ teeth all broken, 1 93, NMS GAM 182, Fig 7.9

COMB, SINGLE-SIDED
52 cetacean bone, broken, perforated thin butt, groove below, 9+ teeth, 2 complete, 1 49, NMS GAM 163, Fig 7.9

COMB, COMPOSITE, DOUBLE-SIDED
53 single segment of teeth with side plates and 2 iron rivets, teeth all broken, 22+ on one side, 20+ on the other, 8 ring and dot decorations on the side plate, 1 34, NMS GAM 1, at higher level on path between inner ditch and broch tower, Fig 7.9

WHORLS
54 cetacean bone, flattened surfaces, rodent gnawed, drilled perforation, complete, diam 30, NMS GAM 47, outside E end of drain compartment D, Fig 7.9
55 cattle femur head, sawn, drilled perforation, complete, diam 41, NMS GAM 49
56 cattle femur head, unfinished perforation, complete, diam 40, NMS GAM 51
57 cattle femur head, chopped, drilled perforation, complete, diam 39, NMS GAM 182, Fig 7.9

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SCAPULA SEGMENT TOOLS

58 sheep scapula, segment with spine, ground blades, complete, 1 44, NMS GAM 43, lower level in inner ditch, Fig 7.9

59 sheep scapula, segment with spine, rounded blade, broken, 1 71, NMS GAM 44, Fig 7.9

60 cattle/deer scapula, segment with spine, rounded blades, broken, 1 86, NMS GAM 182, Fig 7.9

TUBE

61 bird ulna, surface scraped, articular ends sawn off, complete, 1 163, NMS GAM 45, floor level lobby of compartment C, Fig 7.10

RINGS

62 cetacean bone, eroded, complete, diam 25, NMS GAM 57, NE cubicle compartment C, Fig 7.10

63 antler, hollowed, broken, 1 29, NMS GAM 182, ?wall head to S of entrance H3, Fig 7.10

64 cetacean bone, eroded, broken, diam 44, NMS GAM 182, Fig 7.10

?MIRROR HANDLE

65 cetacean bone, Y-shaped, broken, 1 85, NMS GAM 56, foot of rock cut steps SE of broch

MATTOCK

66 antler, chopped rounded blade, broken, 1 180, NMS GAM 91, Fig 7.10

PICKS

67 antler, brow tine and beam, broken, 1 262, NMS GAM 74

68 antler, brow tine and beam, broken, 1 331, NMS GAM 75

CETACEAN VERTEBRA CUP/VESSEL

69 fragment showing rim, wall and base, ht 145, NMS GAM 60, lower level inner ditch, Fig 7.11
PERFORATED BOAR'S TUSK

70  segment of tusk with broken drilled perforation, 1 49, NMS GAM 182

ANTLER-WORKING DEBRIS: BEAM/SKULL/PEDICLE/BURR

71  pedicle, chopped, 1 44, NMS GAM 52
72  base, burr and beam, shed, split, broken, 1 275, NMS GAM 76
73  base, burr and beam, shed, chopped, broken, 1 273, NMS GAM 77
74  base, burr and beam, shed, chopped and split, broken, 1 233, NMS GAM 78
75  base, burr and beam, shed, broken, 1 174, NMS GAM 79
76  skull, pedicles and base of two tines, unshed, one beam sawn one chopped, 1 162, NMS GAM 92
77  base, burr and beam, shed, chopped, broken, 1 151, NMS GAM 93
78  base, burr and beam, shed, split, complete, 1 190, NMS GAM 182
79  base, pedicle and beam, unshed, broken, 1 147, NMS GAM 182
80  base, pedicle and beam, unshed, ?split, broken, 1 165, NMS GAM 182
81  base, burr and beam, shed, chopped, broken, 1 232, NMS GAM 182
82  beam, chopped, 1 191, NMS GAM 182

ANTLER-WORKING DEBRIS: TINES AND CROWNS

83  tine, shed, sawn and split, complete, 1 179, NMS GAM 80
84  tine, sawn and split, chopped, complete, 1 175, NMS GAM 81
85  tine, chopped and split, complete, 1 114, NMS GAM 82
86  tine, chopped and split, complete, 1 138, NMS GAM 83
87  tine, chopped and split, complete, 1 132, NMS GAM 84
88  tine, sawn, chopped and split, complete, 1 105, NMS GAM 85
89  tine, shed, split, complete, 1 108, NMS GAM 86
90  tine tip, chopped and sawn, complete, 1 38, NMS GAM 87
91  tine, chopped and split, complete, 1 125, NMS GAM 88, Fig 7.10, Pls 7.4, 7.9
92  tine segment, chopped and split, complete, 1 54, NMS GAM 89
93  tine chopped and split, broken, 1 152, NMS GAM 182
94  tine, split, complete, 1 140, NMS GAM 182
95  tine chopped and split, complete, 1 104, NMS GAM 182
96  crown, chopped and split, complete, 1 98, NMS GAM 182
97  crown, sawn, complete, 1 130, NMS GAM 182

- 92 -
98  crown, broken, 1 212, NMS GAM 182
99  crown, sawn, complete, 1 207, NMS GAM 182
100  tine chopped and split, complete, 1 159, NMS GAM 190

WORKED BONE : LAND MAMMAL
101  sheep tibia segment, split, complete, 1 99, NMS GAM 31
102  cattle metacarpal segment, split, 3 points of impact, one end rubbed, complete, 1 150, NMS GAM 33, Fig 7.11, Pl 7.10

WORKED BONE : CETACEAN
103  paddle bone segment, sawn and split, broken, 1 242, NMS GAM 54
104  paddle bone segment, chopped, broken, 1 201, NMS GAM 59
105  vertebral epiphysis, chopped, broken, 1 126, NMS GAM 61
106  paddle bone, split, complete, 1 134, NMS GAM 62, near floor outside E end of drain compartment D
107  ?skull, split, sawn and ?chiselled, complete, 1 100, NMS GAM 63, near floor outside E end of drain compartment D
108  paddle bone segment chopped, broken, 1 63, NMS GAM 182

NATURALLY POLISHED PIECES OF BONE
109  compact bone, 1 30, NMS GAM 34
110  compact bone, 1 98, NMS GAM 35
111  compact bone, 1 98, NMS GAM 36
112  compact bone, 1 115, NMS GAM 37
113  compact bone, 1 86, NMS GAM 38
114  compact bone, 1 73, NMS GAM 40
115  compact bone, 1 54, NMS GAM 41
116  rib, 1 58, NMS GAM 42
117  compact bone, 1 49, NMS GAM 182
118  compact bone, 1 89, NMS GAM 182
119  compact bone, 1 84, NMS GAM 182
120  compact bone, 1 135, NMS GAM 182
121  compact bone, 1 106, NMS GAM 182

UNWORKED MATERIAL
122  sheep ulna, 1 103, NMS GAM 19
123  bird bone, 1 71, NMS GAM 27
124  small mammal caudal vertebra, 1 22, NMS GAM 46

- 93 -
125 cattle femur head, diam 29, NMS GAM 50
126 cattle horn core, 1 208, NMS GAM 182
127 antler, shed, unworked, broken, 1 565, NMS GAM 182
128 antler, shed, unworked, broken, 1 186, NMS GAM 182
129 boars' tusks x 21, unworked, NMS GAM 64 & 182
CATALOGUE OF OBJECTS FROM CNOC SLIGEACH, SOLIAS, NORTH UIST

POINTS

Midden pre-dating wheelhouse B
1 sheep metatarsal, proximal, complete, 1 75, WB 13/5, midden, Fig 8.5
2 compact bone, complete, 1 57, WB 13/5, midden, Fig 8.5

Wheelhouse B (contemporary with the wheelhouse)
3 split rib, complete, 1 40, WB 1/2, Cell 1, floor, Fig 8.5
4 compact bone, complete, 1 86, WB 1/3, Cell 1, floor, Fig 8.5
5 split rib, broken, 1 35, WB 1/9, Cell 1, floor 2, Fig 8.5
6 compact bone, shouldered, ?broken, 1 61, WB 4/3, Cell 4, floor 2, Fig 8.5
7 compact bone, complete, 1 77, WB 5/24, Cell 5, lowest of four floors, Fig 8.5
8 compact bone, complete, 1 62, WB 14/3, Cell 14, floor 1, Fig 8.5
9 compact bone, complete, 1 81, WB Q/62, NW quadrant, below floor 1, Fig 8.5
10 split rib, complete, 1 72, WB unstratified

LARGE POINT

Wheelhouse B (contemporary with the wheelhouse)
11 scapula segment, complete, 1 144, WB 12/3, Cell 12, floor, Fig 8.5

PERFORATED POINTS

Wheelhouse A
12 sheep os malleolare, complete, 1 74, A22/20 = no 48, Per A–C, Fig 8.5
13 compact, rounded head, broken, 1 27, A/23 W/5 = no 51, Per A–C, Fig 8.5
14 compact bone, expanded angular shoulders, complete, 1 87, WH/A/17 = no 17, Per D–F, Fig 8.5
Wheelhouse B (contemporary with the wheelhouse)

15 compact bone, expanded angular shoulders, complete, 1 74,
WB Q/17, SE quadrant, upper floor, Fig 8.5

POINTS/PINS

Wheelhouse B (contemporary with the wheelhouse)

16 compact bone, chisel-head tip waisted, complete, 1 83,
WB 8/24, Cell 8, floor 1, Fig 8.5, Pl 8.1
17 compact bone, flat head, complete, 1 84, WB 13/1, Cell 13,
floor, E side, Fig 8.5
18 compact bone, broken, 1 35, WB 1323/3, floor, Fig 8.5

PEGS

Wheelhouse A

19 antler, ?for handle plate, complete, 1 61, A 22/18 = no 45,
Per D-F, Fig 8.5
20 antler, waisted tip, complete, 1 71, WH/A/73 = no 73, Per D-F,
Fig 8.5

Wheelhouse B (contemporary with the wheelhouse)

21 antler, ?for handle plate, complete, 1 50, WB 10/8, Cell 10,
floor, Fig 8.5

BLUNTS

Wheelhouse A

22 antler segment, flattened tip, complete, 1 127, WH/A/90 =
no 90, Per F, Fig 8.6
23 antler segment, rounded tip, complete, 1 114, A/22/7 = no 31,
post wheelhouse, Fig 8.6

Wheelhouse B (contemporary with the wheelhouse)

24 compact bone, complete, 1 81, WB 7/10, Cell 7, pit 1, Fig 8.5
25 sheep metatarsal, complete, 1 67, WB 12/3, Cell 12, floor,
Fig 8.5

- 96 -
SPATULAE

Wheelhouse B (contemporary with the wheelhouse)
26 compact bone, miniature, broken, 1 40, WB 6/22, Cell 6, pit cut into lowest of four floors, Fig 8.5
27 compact bone, one end pointed, complete, 1 108, WB Q/83, NE quadrant, pit 5, Fig 8.6, Pl 8.2

SPATULATE ?POTTING TOOLS

Wheelhouse A
28 antler tine, grooved butt, spatulate tip, complete, 1 148, WH/A/62 = no 62, Per A–C, Fig 8.6

Wheelhouse B (contemporary with the wheelhouse)
29 compact bone, pointed butt, spatulate tip, curved circular-sectioned shaft, complete, 1 165, WB 10/10, Cell 10, pit in floor, Fig 8.6

PEGGED PLATES

Wheelhouse A
30 antler, beam, 4 perforations, one in each corner, complete, 1 4, A22/9 = no 33, Per D–F, Fig 8.6
31 antler, beam, 3 perforations in line, 3 pegs surviving, complete, 1 70, WH/A/82 = no 82, Per D–F, Fig 8.6
32 antler, beam, 4 perforations in line, part of one peg surviving, complete, 1 70, WH/A/93 = no 93, post wheelhouse, Fig 8.6

Wheelhouse B (contemporary with the wheelhouse)
33 antler, 2 large perforations, broken, 1 70, WB 13/6, Cell 13, sand below floor 2, Fig 8.6
34 antler, beam, 4 perforations, 2 pairs of 2, complete, 1 74, WB 13/6, Cell 13, sand below floor 2, Fig 8.7

HANDLES

Wheelhouse A
35 antler tine, one long rectangular socket, one short circular socket, complete, 1 88, A23 W+/4, Per D–F, Fig 8.7

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midden pre-dating wheelhouse B

36 antler tine, circular socket, broken, 1 38, EN/2, N of entrance passage, Fig 8.7

Wheelhouse B (contemporary with the wheelhouse)

37 antler tine, grooved butt, circular socket, complete, 1 82, WB E/5, crevice in S entrance wall of courtyard 15ft outside the entrance, Fig 8.7

SOCKET

Wheelhouse A

38 antler beam, transverse circular perforation, longitudinal socket, broken, 1 121, WH/A/81 = no 81, Per A–C, Fig 8.7

PERFORATED BONE

Wheelhouse B (contemporary with the wheelhouse)

39 sheep metacarpal, gnawed, ?complete, 1 94, WB 8/12, Cell 8, pit 4, Fig 8.7

TURNED OBJECTS

Wheelhouse A

40 antler tine, ?complete, 1 91, diam 20, A22 SW/12 = no 39, Per A–C, Fig 8.7

41 antler beam, broken, 1 82, diam 24, A23 W+/4 = no 50, Per D–F, Fig 8.7

42 antler tine, complete, 1 68, diam 15, A23 W+/4 = no 50, Per D–F, Fig 8.7, Pl 8.3

43 antler tine, ?complete, 1 79, diam 24, WH/A/74 = no 74, Fig 8.7

44 antler ?beam, broken, 1 78, WH/A/90, Per F

Midden pre-dating wheelhouse B

45 antler tine, broken, 1 33, diam 28, WB EN/7

46 antler beam, broken, 1 34, diam 33, WB SC/3, Fig 8.7

47 antler beam, broken, 1 47, diam 30, WB SC/3
Wheelhouse B (contemporary with the wheelhouse)

48 antler beam, broken, 1 102, diam 34, WB 5/3, Cell 5, floor 1, Fig 8.8

49 cetacean bone, complete, 1 148, diam 47, WB 13/3, Cell 13, floor 2, Fig 8.8, Pl 8.4

50 antler tine, broken, 1 77, diam 25, WB Cells 1-14

51 cetacean bone, broken, 1 42, Q/44, NW Quadrant, floor, (Part of cetacean bone above?)

52 antler beam, broken, 1 97, diam 27, WB Q/56/59/65

GAMING PIECE/PEG

Wheelhouse B (contemporary with the wheelhouse)

53 antler, two part, ball-shaped head with small inserted peg, complete, 1 26, diam 13, WB Q/60, NW quadrant, pit 20, Fig 8.8

CETACEAN VERTEBRA CUPS/VESELS

Wheelhouse B (contemporary with the wheelhouse)

54 wall fragment of large vessel, immature, broken, 1 206, ht 164, WB Q/76

55 vessel in process of manufacture?, 1 300, ht 116, WB Q/101, SW quadrant, pit 15

CETACEAN BONE ?BLANKS

Midden pre-dating wheelhouse B

56 grooved, complete, 1 62, WB EE/1, Pl 8.5

57 notched, complete, 1 82, WB EE/1, Fig 8.8

58 peg, complete, 1 76, WB EE/1, Fig 8.8

59 notched, complete, 1 107, WB SC/2, Fig 8.8

?POLISHER

Post wheelhouse B refill

60 antler, broken, 1 66, 1323/2, floor, N side, Fig 8.8

MISCELLANEOUS OBJECTS

Midden pre-dating wheelhouse B

61 cetacean, bone, notched 2-3 times, rectangular, complete, 1 239, WB EN/6, Fig 8.9, Pl 8.6
Wheelhouse B (contemporary with the wheelhouse)

62 compact bone, toothed, broken, 1 74, WB 13/9, Cell 5, crevice in outer wall, Fig 8.8

63 split rib spatulate with notch, complete, 1 138, WB Q/2, NE quadrant, upper floor of central area by cells 11-19, Fig 8.8

64 small tablet of compact bone, complete, 1 36, WB Q/23, SE quadrant, upper floor of central area, Fig 8.9

65 cetacean bone ?stake, circular, waisted, broken, 1 270, WB 10/2, Cell 10, floor, Fig 8.10, Pl 8.6

WORKED BONE

Wheelhouse B (contemporary with the wheelhouse)

66 sheep metapodial, split, 1 60, WB 5/6, Cell 5, floor 2

67 sheep tibia, split, 1 95, WB 6/25, Cell 6, floor 3 left half

68 ?sheep tibia, immature, trimmed all over, complete, 1 77, WB 12/4, Cell 12 floor

69 compact bone, split, 1 38, WB 13/5, Cell 13

70 rib split, 1 114, WB Cells 1-14

ANTLER-WORKING DEBRIS : BEAM/SKULL/PEDICLE/BURR

Wheelhouse A

71 bean, chopped, sawn, 1 35, WH/A/1+4+5, Per A-C

72 burr and brow tine, shed, split and chopped, 1 128, WH/A/22SW = adjacent to A 22 SW/12 (= no 39), Per A

73 bean, chopped and split, trimmed, complete, 1 65, WH/A/58 = no 58, Per F

74 bean, split, 1 81, WH/A/71, Per F

75 bean, split, 1 49, WH/A/71, Per F

76 bean, split, 1 40, WH/A/71, Per F

77 bean, split, 1 25, WH/A/71, Per F

78 bean, chopped, broken, 1 156, WH/A/71, Per F

79 bean and tine, chopped and split, 1 115, WH/A/78, Per F

80 bean, sawn and split, complete, 1 61, WH/A/78, Per F

81 bean, split, broken, 1 75, WH/A/80, post wheelhouse

82 bean and tine split, sawn tine, complete, 1 110, WH/A/80, post wheelhouse

-100-
83  beam, chopped and split, 1 69, WH/A/92, post wheelhouse
84  beam, sawn and split, 1 83, WH/A/98, Per F

Midden pre-dating wheelhouse B
85  beam, split, complete, 1 84, WB EE/2
86  beam, sawn, broken, 1 60, WB EN/5
87  beam, sawn and split, complete, 1 29, WB EN/5
88  beam, chopped and split, trimmed, 1 53, WB ES/3
89  beam, sawn and split, 1 108, WB SC/3
90  beam, split, trimmed, 1 55, WB SC/3

Souterrain cutting
91  beam, sawn, split, broken, 1 38, WB S/6
92  beam, sawn, chopped, broken, 1 86, WB S/6
93  beam, chopped, broken, 1 44, WB S/6

Wheelhouse B (contemporary with the wheelhouse)
94  beam, chopped, complete, 1 56, WB 5/26, Cell 5
95  beam, chopped, trimmed, 1 183, WB 13/1, Cell 13, floor 1
96  beam, sawn and chopped, 1 121, WB 14/5, Cell 14
97  base, burr and beam, shed, chopped, 1 57, WB Cells 1-14
98  beam, chopped and split, trimmed, complete, 1 68, WB Cells 1-14
99  beam, chopped and split, burnt, broken, 1 53, WB Q/38, NE quadrant, unstratified
100 beam, trimmed, broken, 1 47, WB Q/39, SE quadrant, unstratified
101 beam, chopped, trimmed 1 78, WB Q/73, SW quadrant, floor
102 beam, split, broken, 1 62, WB Q/73, SW quadrant, floor
103 beam, split, complete, 1 60, WB A/3, Cell A refill
104 beam, split, trimmed, 1 79, WB C/1
105 beam, chopped, 1 48, WB C/3

ANTLER-WORKING DEBRIS : TINES AND CROWNS

Wheelhouse A
106  tine, broken, 1 69, WH/A/2 = A23/E ¼, Per A
107  tine, chopped, 1 88, WH/A/6 = A23/E 6/7, Per A
108 tine, chopped and split, 1 113, WH/A/15, floor in centre, S end of diagonal section
109 tine, sawn, complete, 1 80, WH/A/26 = A22 E/3, Per F
110 tine, sawn, trimmed, 1 66, WH/A/84, Per F
111 tine, sawn and split, 1 60, WH/A/96, Per F

Midden pre-dating wheelhouse B
112 tine tip, sawn and split, complete, 1 50, WB EE/1
113 tine tip, split, worn tip, complete, 1 39, WB EN/1
114 tine, chopped and split, complete, 1 68, WB EN/4
115 tine, sawn and split, complete, 1 75, WB EN/7

Wheelhouse B (contemporary with the wheelhouse)
116 tine, split and sawn, trimmed, complete, 1 84, WB 5/26, Cell 5
117 tine, sawn and split, complete, 1 168, WB 13/4, Cell 13
118 tine, sawn and split, complete, 1 105, WB 14/5, Cell 14
119 tine, chopped and split, complete, 1 94, WB unstratified
120 crown, chopped and split, complete, 1 103, WB A/1, Cell A refill
121 tine, split, broken, 1 45, WB A/3, Cell A refill
122 tine tip, sawn and split, 1 41, WB C/3
123 tine, chopped, 1 179, WB 1323/2, floor
124 tine, chopped, trimmed, 1 95, WB/108

CETACEAN BONE WORKING DEBRIS

Midden pre-dating wheelhouse B
125 segment, rectangular, sawn ends, split sides, 1 45, WB EE/1
126 segment, rectangular, chopped and split, 1 116, WB EE/1
127 segment, rectangular, sawn ends, split sides, 1 50, WB EE/1
128 segment, rectangular, split sides, sawn ends, 1 55, WB EE/1, Pl 8.7
129 segment, rectangular, sawn ends, split sides, 1 67, WB EE/1
130 segment, rectangular, sawn ends, split sides, 1 77, WB EE/1, Pl 8.5
131 segment, rectangular, split sides, sawn ends, 1 62, WB EE/1, Pl 8.5
132 segment, rectangular, sawn ends, split sides, 1 52, WB EE/1
133 segment, rectangular, sawn ends, split sides, 1 67, WB EE/1
134 segment, rectangular, sawn ends, split sides, 1 75, WB EE/1, Pl 8.5

135 segment, rectangular, sawn ends, split sides, 1 66, WB EE/1

136 segment, rectangular, sawn ends, split sides, 1 63, WB EE/1

137 segment, elongated, split, 1 100, WB EE/1

138 segment, rectangular, sawn ends, split sides, 1 77, WB EE/1

139 chip, split, 1 28, WB EE/2

140 chip, split, 1 31, WB EE/2, Pl 8.8

141 chip, split, 1 43, WB EE/2, Pl 8.8

142 chip, split, 1 24, WB EE/2, Pl 8.8

143 chip, split, 1 30, WB EE/2, Pl 8.8

144 chip, split, 1 60, WB EE/2, Pl 8.8

145 chip, split, 1 56, WB EE/2, Pl 8.8

146 chip, split, 1 35, WB EE/2

147 segment, rectangular, split, broken, 1 130, WB EN/5

148 segment, rectangular, split sides, sawn ends, 1 201, WB EN/6

149 segment, rectangular, split sides, sawn ends, central groove for further sawing, 1 55, WB ES/3

150 chip, split, pointed, 1 71, WB ES/3

151 chip, split, pointed, 1 112, WB FF/8

152 segment, rectangular, sawn ends, split sides, 1 55, WB SC/2

Wheelhouse B (contemporary with the wheelhouse)

153 segment, rectangular, split sides, sawn ends, 1 27, WB 2/6, Cell 2, pit in floor

154 segment, rectangular, sawn ends, split sides, 1 39, WB 9/35, Cell 9, floor

155 section from paddle bone, sub-oval, 1 107, diam 107, WB 13/7, Cell 13, Pl 8.9

156 segment, rectangular, split sides, sawn ends, 1 49, WB C/2

UNWORKED

Wheelhouse A

157 bird fibula, 1 62, A23/3 = no A 23/3, Per A-C

158 cattle scapula, 1 210, WH/A/75, Per A

159 sheep metacarpal, 1 93, WH/A/78

160 antler, 1 59, WH/A/80, post wheelhouse

161 sheep metatarsal, 1 115, WH/A/90, Per F
162 cattle scapula, 1 140, WH/A/90, Per F
163 cattle scapula, 1 217, WH/A/98, Per F
164 antler, 1 43, WH/A/98, Per F
165 compact bone, split, eroded, 1 27, A/1, Per C

Midden pre-dating wheelhouse B
166 antler, 1 63, WB EE/2
167 cattle scapula, 1 114, WB EN/4

Wheelhouse B (contemporary with the wheelhouse)
168 antler, shed, 1 244, WB 1/6, in and below floor 1
169 cattle tibia, split, 1 126, WB 4/13, sand between floors 2 & 3
170 cattle femur head, immature, 1 47, WB 5/6, floor 2
171 antler, 1 23, WB 5/28, pit 1
172 compact bone, 1 69, WB 13/3, Cell 13, floor 2
173 compact bone, 1 74, WB Q/56/59/65
174 sheep metatarsal, 1 42, WB Q/4, SW quadrant floor
175 cattle scapula, 1 93, WB A/3
### Fig 1.1 Recording sheet for worked bone

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**Anat. Description & Comments**

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**Modification: Human**

**Non-Human**

**Sequence of Modification**

**Modifiers**

**Sketch**

**Parallels**

**X-Section**

- Cleaned
- Drawn
- Photographed
Fig 2.1 British meat cuts in the 1980's. From Davis 1987
Fig 3.1 Cattle skeleton and named bones. From A MacGregor 1985

Fig 3.2 Cattle skull and constituent bones. From Schmid 1972

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Fig 3.3 Long bone growth by endochondral ossification. From Davis 1987
Fig 3.4 The structure of bone. From Wainwright et al. 1976

a. collagen fibril
b. woven bone
c. lamellar bone
d. woven bone
e. primary lamellar bone
f. Haemorhial bone
g. laminar bone
h. compact bone
i. cancellous bone
Fig 3.5 The development of laminar bone by the formation of woven bone and lamellar bone. From Wainwright et al. 1976

Fig 3.6 Cycles of antler development for red deer (cervus elaphus), roe deer (capreolus), elk (alces) and male and female reindeer (rangifer). From Schmid 1972
Fig 3.7 The cycle of antler growth. From Davis 1987
a mature antler
b resorption begins at the base of the antler
c antler is shed
d skin covers pedicle
e new antler begins to grow
f antler fully grown and velvet about to be cast

Fig 3.8 Red deer antler development with age. From Schmid 1972
1 beam; 2 brow tine; 3 trez tine; 4 terminal tines; 5 bez tine; 6 crown: A pricket; B 2-pointer; C 6-pointer;
D 8-pointer; E 10-pointer; F 12-pointer
Fig 3.9 Antler morphology. From A MacGregor 1985
a roe deer; b fallow deer; c red deer; d reindeer; e elk

Fig 3.10 Section through a canine and a molar. From Vincent 1982; A MacGregor 1985
Fig 3.11 Section through a horn and the os cornu of a sheep. From Schmid 1972
Fig 4.1 Stress-strain curves. From Vincent 1982

a an elastic material
b an elastic-plastic material
c a plastic material
d a viscoelastic material

Fig 4.2 Stress-strain curves. From Vincent 1982; Wainwright et al. 1976

a steel
b bone
c rubber
Fig 4.3 Forces within a loaded beam. From Wainwright et al. 1976
Fig 4.4 The effect of a flaw on the reaction to tensile stress. From Wainwright et al. 1976

a unnotched piece
b piece with notch or flaw

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Fig 4.5 Differential reaction in three dimensions to tensile stress. From Wainwright et al. 1976. Note the similarity between the longitudinal and transverse axes in the two pieces, and the difference between the radial axes

a laminar bone
b Haversian bone
Fig 4.6 Stress-strain curves. From A MacGregor 1985
a bone
b antler

Fig 4.7 Stress-strain curves. From A MacGregor 1985
a dry antler
b wet antler
Fig 5.1 Scotland: location of detailed maps Figs 5.2, 6.1, 8.1
Fig 5.4 Risga: points R 2-10; points/pins R 12-15; barbed points R 17-29; point/barb R 30; ?barb R 31; 'fish hook' R 32; point/hook R 33; blunts R 34-35. Scale 1:1
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Fig 6.2 Location of Skara Brae. Scale 1:50 000
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