

FISH REMAINS FROM EXCAVATIONS AT MILDENHALL, SITE 165.

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Summary

Anassemblage of fish bones recovered by sieving samples of Bronze Age archaeological deposits on 1mm aperture sieves was dominated by remains of the common threespined stickleback, <u>Gasterosteus aculeatus</u>. Other fishes present at the site were pike, <u>Esox lucius</u>, a cyprinid, ?burbot, ?Lota lota and ?herring, <u>Clupea</u> <u>harengus</u>. The remains were not typical of those recovered from human occupation sites and the majority of bones were probably not deposited as a result of human activity.

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THE FISH REMAINS FROM MILDENHALL 165

Fish remains were recovered from the excavations at Mildenhall 165 by carefully sieving 10kg samples of feature fills on 1 mm aperture sieves. A total of 131 fish bones were identified. Of these, all but 10 were from the stickleback, Gasterosteus aculeatus.

Pike was represented by four vertebrae, one was from a large fish (80-100 cmm total length) the other were from small animals. Incremental growth rings on the articulating faces of the vertebrae were examined to determine the approximate season of death of the pike. It was possible to determine that one of the fish was caught in the summer half of the year. More precise timing was not possible.

One small vertebra and two scale fragments were assigned to the family Cyprinidae, which includes roach, bream, chub and other freshwater fishes but could not be more closely identified. One vertebral fragment closely resembled part of a precaudal centrum of a herring <u>Clupea harengus</u>, and a second broken vertebra was tentatively assigned to the now rare freshwater gadid, the burbot, <u>Lota lota</u>.

An isolated tooth, identified as a shark tooth, was pitted and abraded. Its condition suggested it may be of very great antiquity, possibly a fossil which had been deposited in the natural subsoil.

The assemblage of fishes is not typical of those deposited by man, for most of the remains are from small fishes which are not often eaten today. It is most unlikely that the stickleback bones are food residues for they bore no signs of having been eaten. Almost all the stickleback remains came from wet pitfills or the lower, seasonally flooded, marginal deposits. They almost certainly represent fishes which became standed as seasonal flood waters receded. The distribution of stickleback help to elucidate past topography and drainage at the site, particularly when compared to the evidence provided by seeds of aquatic plants.

The fishes which are more likely to have been human food refuse, pike, ?burbot and the cyprinid, were recovered from dry pitfills or from the dry palaeosol on the higher parts of the site. Other food refuse, for example mammal bone and cereals, also occurred in these dry deposits.

The ?herring vertebra is a most interesting find as the site is so far from the sea. First, there is no doubt that this bone is from a member of the Clupeidae, a family which includes herring, <u>Clupea harengus</u>, sprat, <u>Sprattus</u> <u>sprattus</u> and the shads, <u>Alosa</u> spp. The find was the anterior portion of a precaudal centrum possessing the highly distinctive dorsal and ventral sculpturing typical of the herring and unlike other species.

The ?herring vertebral fragment was recovered from a marginal layer which was seasonally flooded. Several mechanisms may have lead to its deposition. It may have arrived in a bird pellet or in the faeces of a piscivorous animal (including man). Alternativley, it may have been inadvertently imported with lumps of Fen Clay, an estuarine or lagoonal sediment, found at the site. This clay was probably imported for pottery production an other purposes and may have included the ?herring bone as well as the thin scatter of marine molluscs and other invertebrates found at the site.

It is important to stress that the small number of bones of food fishes recovered does not provide sufficient evidence to discuss the diet or economy of the site in any detail. Suffice it to say that fish remains species were present in small numbers in the deposits. FISH REMAINS FROM MILDENHALL, SITE 165

CATALOGUE OF FINDS (sorted according to context type)

| Dry | contexts, | including | the | palaeosol |
|-----|-----------|-----------|-----|-----------|

| MNL | 165 | 0238 | l vertebra (small) | Pike, Esox lucius | |
|------------------------------|-----|-------|---|--|--|
| | 165 | 0358 | l vertebra (11 mm diam.) | 19 | |
| | 165 | 0413 | l vertebra (small) | 11 | |
| | 165 | 5290 | 3 spines 2 vertebrae | Stickleback, Gasterosteus aculeatus | |
| | 165 | 5367 | l tooth | Shark, Selachii | |
| | 165 | 5407 | unidentified fragment | | |
| | 165 | 5512 | 1 spine | Stickleback | |
| | 165 | 5524 | l vertebra (small) | Cyprinidae | |
| | 165 | 10373 | l precaudal vertebral centrum | Pike | |
| | 165 | 10526 | l precaudal vertebra | ?Burbot <u>?Lota lota</u> | |
| Dry pit fills | | | | | |
| | 165 | 0938 | l pelvic bone | Stickleback | |
| | 165 | 4128 | unidentified fragment | Small mammal sacrum | |
| | 165 | 4261 | 2 scale fragments | Cyprinidae | |
| | 165 | 4263 | l unidentified tooth fragment | | |
| Wet pitfills, probably wells | | | | | |
| | 165 | 0927 | l pelvic bone | Stickleback | |
| | 165 | 4250 | l opercular l pelvic bone l vertebra | 11 11 11 | |
| | 165 | 4152 | l unidentified fragment | | |
| | 165 | 4156 | l vertebra l spine 2 unidentifed fragments | 14 11 | |
| | 165 | | 2 sculptured fragments 1 unidentified fragment | 11 | |

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Wet pitfills, probably wells (cont.)

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| 165 | 4230 | <pre>27 vertebrae 4 operculars 2 basioccipitals 2 left dentaries 2 premaxillae (1 left, 1 right) 1 preopercular 7 lateral spines 11 pelvic bones (6 left, 5 right) 1 quadrate 3 dorsal scutes unidentified fragments</pre> | Stickleback "" "" " " " " " " " |
|----------|--------|--|--|
| 165 | 4256 | l opercular l vertebra unidentified fragments | 11 17 11 |
| 165 | 4265 | 3 vertebrae 1 basioccipital unidentified fragment | 11 11 11 |
| 165 | 4270 | l vertebra | 11 |
| Marginal | deposi | ts seasonally flooded | |
| 165 | 5109 | 1 preopercular 1 pelvic bone 2 unidentified fragments | 11 11 |
| 165 | 5133 | l spine 1 pelvic bone 1 unidentified fragment | 11 11 |
| 165 | 5141 | 2 pelvic bones 1 preopercular 1 spine 3 unidentified fragments | 11 17 11 |
| 165 | 5145 | <pre>1 vertebral fragment 5 spines 2 operculars 1 preopercular 1 pelvic bone 2 vertebrae 2 vertebrae</pre> | ?herring, ? <u>Clupea harengus</u> Stickleback " " " " Snake (species unknown) |
| 165 | 5254 | 2 spines 1 pelvic bone | n N |
| 165 | 5278 | 5 spines 2 pelvic bones 3 sculptured fragments | 11 17 11 |

| | | | | · . |
|-----|----------|--------------------------|----------|-----|
| 165 | 5286 2 : | spines | 11 | |
| 165 | 11313 1 | pelvic bone | 18 | · |
| 165 | | pelvic bones vertebra | 27 21 | |

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