

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

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

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