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AUTHOR

F A Turk

TITLE

NOR NOUR,

Animal Remains

Isle of Scilly

NOTES ON CORNISH MAMMALS IN PREHISTORIC AND HISTORIC TIMES: 1

P. C. DANK

Clarest no e or all continuous (Normour. VI. les et cilly

This is me of the preport cories of nature is seven up to what sucurity to in interim report on the bond semains from the last two de sone! accavations on Bornour, Isle of Scilly, A provious raper of the Suther's has dealt with the bines discovered during the excavations conducted by Fig Forothy Sudley from 1962 to 1966 and a general account of the site and of the exceptions which recovered the material on which the present report is based was published by "isa Barnia atcher leat your". context in which there some were four appears to be t at of the prebornn Iron too and an entirely providental duting numbers that they wight correctly be placed soon after 250 B.C. - a chronology of some significance for at least one species. In the period between this are my last report on the bones of this site another laper and appeared decling with various species recovered from the midden material by mand scrting about one cubic fact of the black granular earth . The joint authors, bandford and fernette deal mostly with the vole ligratur perconomus and the cignidicance of its occurrence in the islands but give a ditional vectores of several specie. stoviously noted and a new record of the fieldly obrew Charles surve land. as well as some bird species not an arevious lists. There will be noticed. in passing, in the present paper.

:) X

This species is such more common in this material than it was in that exceivated by Pian Pudley from 1962 to 1966; indeed, a Glance over the register of bores shows that it was present in almost as many of the numbered bags as the energy. Assuming that both lots of material are of roughly to some age, the explanation of this discrepancy is very uncortain. In the somes from the midden on fean, dating from the 2nd to 8th Centuries A.1. 5 the Ox was also much commoner than in Fiss Tudley's pre-Foman Iron Age material from Mornour. One was tempted to see this as an increase in the numbers of the slecies in Scilly and a suiff, during those centuries, in the energl attern of arimal hubbandry: the present material obviously casts considerable doubt on such an explanation. Posever, further deduction must await a firmer dating of these bones as, images, of the whole Mornour complex.

long bones enfortunately allow of measure ent. The majority of the long bones snow some signs of having been split into two longitudinally, presumbly to extract the marrow and, for this reason, as well as for the fact that only a few bones curvive in a form from which any re-construction of the living animal can be made, we are utill partly ignorant of what the

brook sould have been like. Containly it was hornes, for a few framents of horn-cores survive and equally certainly it was very such smaller than Zary to modern cattle. Even re, to few tones, ruch as an radius enew teasurements, the magnitude of which in word epseimons is not really below asmy modern breeds. The size of the toeth and a fow fragments of mandicle and spatilla Be : A suggest that it and a disproportionately large week, wailst vertebral froments The suggest a small body with possibly alia, undersevoloped mind quartors. The E knees were abnormally large in mature gainals - possibly more so in the bulls The fortitian the coss - and certainly disproportionately so to the Locks. Forn-cores Julie , , u gost that the horne had a variable curvature and were often small but could indeed develor great length and considerable curvature as shown by fragments from the midden on t c D.W. of House I. a late The remains, taken as a whole, appear to come from enimals of all mass and there is no evidence of young calves ...vin been slaughtered, up in the gase of the lambs, to avoid taking them through the winter, One or two bones. Indeed, seemed to co e from animals of considerable ase and this suggests trut these cuttle were kept very much as in former times in the Febrides.

Youatt(Lesee note 6) caps of tous "In the sprint all the cattle are in toor condition.sea-weed boiled with nucks of grain and a little weal...... are then om loved to support them: and in many places the cuttle during the winter and spring rocalarly betake themselves to the sea-shore at ebb-tice to feed upon the fuci." In the closer Scillies and especially in view of the variety and amount of mamualian life the islands then supported, it seems very likely that a similar practice would have been followed. This small, tough, unimproved bread - probably few mature individuals would have weighed above four hundredweight - would have been pre-eminently suited to such rule busbandry . Perhaps the most nearly related surviving breeds were the ancient oven of Shetland and Orkney - somewhat ill-shapen like the latter and, maybe, a little larger than the former. It was undoubtedly a variant of the widespread stock of the "Celtic ox" found at all Iron Age sites both British and Continental and the most distinguishing esteological feature that I can find for the Scillonian breed, from the bone fragments available, is that the frontal bone had a very small supra-orbital foremen and a supraorbital fosca deepar, and more sharply defined, than seems to be figured for any other known creed ancient or addern. However, as this is a character totally unrecorded for many races of exen its diagnostic value must remain extremely tentative.

Tensurements of Ox b nea

Tooth Senth: 125.5. 37.5. % 128.0, 29.5. % 133.0, 36.0, 38.5 (varage of three for this \ 10 00dern oxon gave 40.0) Ψ*127.0. Ψ²126.0. μ³130.

Bumprus ray. distal eg. 53.0. 73.0

"Ina width aut. art. curface 33.5.

Padius Max. ant. crox. curf. 64.5. Max. distal act. 63.5. katuloreal roy, now, 51.5. diatol may 56 0 (seems, 28 a)

shelang I Length	56.0. proxwiat	n 30.4.	distal 19	9.5.
	29.0	21.0	10	6.0
Phalent II bon th	41.5 prox.	-Au	distal 29	9.0
11	62.0	•	-	- -,
Scepho- cuboid to	axivi th 43.0mm.	max. he	ight 44.0	@ m •
	" 49.5 m.	ii .	" 33. 0	787 5 .
Artragalus bength	51.5 max. prox.	. 32.0 ma	x. distal	***
tt	54.0 " "	36.0 "	11	34.0
H _.	59.0 " "	38.0	11	36.0

COAT

For sources used in distinguishing sheep and goat bones see footnote 1 to part 3 of these notes. As previously all bones not identifiable as goat are treated as sneep". As in the material from the earlier excovations the remains of this animal are extremely Tow. Numbers must have been vory fer throughout this period and all the evidence points to a small unimproved breed of scrub goat possibly semi-feral.

rendible Length of tooth row 49.0mm. without Mg. Longth im, 9.5mm." 1505-Topth randible ant. to P_2 17.5 m. depth ant. to P_{ij} 14.0 mm. (% not yet erupted. Age of animal about 1 year 3 months .

A fragment of a mandible, a broken grow, piece of an ulna and a distal fragment of humarus are the sole remains of the species.

Humerus Pax. width distal condyle 27.0mm.

Although, as in the previous Normour report (Turk.1.0), to bones of this species are the most numbrous yet because of their fragmentary consition they add little to the description of this species previously given (Turk 1968). Yet a further small characteristic can be added. A fragment of the orbital rim of the malar bone shows that the orbit itself was produced to a somewhat abnormal extent and the whole region very well marked. However, the tentative suggestion put forward in that report that a larger breed may be present is more firmly attested by certain of the remains now available.

A retacarpal and a retatarsal of a juvenile animal (both bones lacking feriphyes) were of somewhat deer-like factos, slim and elegant and of a length requal to those of many modern breeds. There is now evidence therefore for an abnormally short-legged Turbary type sheep and for a much larger, longer and slender legged breed. Possibly also, there is further evidence that this brood might have carried such longer, backward curved, heavy horns as remains of such cores were found in the lower widden material infilling the passage between the complex of Hangas I and I between the complex of Houses I and II and House III. In the basal section these born cores are almost completely D-shaped whereas all the norm cores of the smaller and much fore cummon Turbary type sheep are obscurely triangular but approximation so a broad ovoid shape at the base 10.

a surtage matter of co-miderage intend a must of the attention; this and ones to light by or loying the mothed of local newsom 1. The wait numbery 10 or satisfic that could be corresented of the windle and i b b med procent are is follows:-

		neible	14 Indi	14 Individuals)				
in feture	J 4	Pospula	9	*1	A I bunes from animals			
	Fora-licb	Aumo ru a	: 15	")) of all a tea cre counted			
Com no- 1/1	···	fadius	15	n)	equally for this purpose.			
Sta of	fen.	Pathoarpic	(23)	**)	If one excepts very young			
the y	in plant in	felvic bones	8)	**)	animals the fewers and tibles			
ite the	Min linh	Femur	8 -		would represent still smaller			
Si for but	January	, Tibia	ei)		numbers proportionately.			
1100 1 30	mercho.	estatareals	14	")	desi often do not onvice			
1. A.C.	Int.			,	here in my experience.			
Here the differential that the local conditions did not favour the differential								
I for	preservation of one lot of bones compared with another, and not a single							
1. 1.	fact is known contrary to such an assumption, then this startling difference							
1 1650	in numbers of the hind as compared with the fore-line can only mean that							
\"*	the "leg of muttin" (or lamb), is modern butchery terms, was fremently							
_	1				he metatarsm) a mostly coinc			
	Restauched First - whereas the "shoulder of mutton" See usually kept for							
1x.00	Aure consumpt				et this practice would have			
buste.	token place among the inlanders themselves because a) it seems reasonable							
a Der	to assume that in such a confined geo raphical area all the inhabitants							
341	would keep the came enimals and have a nearly identical economy and							
Comp 1	b) if this did take place for any reason of ritual or social exchange one							
La ly	should expect to find the bones of the hind-limbs of the shoep with nearly							
1001	equal frequency in the midden raterial or among the infiliany of the huts.							
RAINEA.	As far as is known the sheep white the ox, boar and dog had no rituel							
PV	significance	for the Celtic	people ¹³ an	d on thi	s account alone there seems			
	no marticular	reason why the	best out o	f the mu	tton should have been used			
	for such purp	oses. Accordi	ngly, we ap	pear to	be left with only one			

Sheep bones were containly used for the making or implements. A distal part of a juvenile tibia and the proximal part of a radius and been cut across obliquely and worked to a point to form swl-like instruments. delicate work was a pierced disc of bone cut from a sheep's acapula - probably an immature enimal. It had an average diameter of 45.0mm with a minimum thickness of 2.2mm. A somewhat similar disc which appears to have also been cut from a scapula was found at Jarlshof 15, another wheel-house culture eite. Measurements of Theop banes

explanation, namely, that it was given or traded to visitors from overseas 14.

Tooth: Length: 10, 21.0 (as large as modern breeds) W 11.5 (very old anima) 20.0mm. K 10.5 M 14.0 M 14.5 Mandible Total length: 140.0mm. Length of tooth row 67.5mm.

" " " " 63.0mm. (mod. 60.00m) 149.0mm.

Longth of condule to sympaysis 185.... Using the of a

In this instance the length of tooth row was 17.0. Topin of just ent. to Fo, 6.5, ent. to 7, 18.5). Secretary length of density and the 23. Hymaens Langth - prox. and adistal end 25.0 24.5 26.5 126 30 23.0 27.5 25.5 Padius None could be measured for length. Prox. width Distal width 24.75 26.5 24.0 22.5 21.5 25.0 23.5 AO. Omm. Femur Max. across head and meater Distal width 3 '.0 Length 153.5 30.5 - Trans. diam. Trox. 34.0 extremity Tibin hone could be reserved for length. Prox. width 37.0 Mutal width 28.5 37.0 25.0 37.0 24.5 Agtra galus Length 26.5 Frox. width 18.5 Distal width 16.5 26.0 19.0 18.5 25.0 25.0 27.0 18.0 17.5 26.5 19.0 18.0 26.0 17.0 16.5 Calcanoum Longth 52.5 - 48.5 - 48.0 - 41.0 - 47.0 - 53.0 - 55.0) (large as "stacarpal Longth 110.0mm. Distal width -

(An actual of at least , years 9 com ha her only 1 al -3 um ", except

PIC

Motatersal Length 121.5

Longth less ep. 114 juv.

The remains of this species are as rare as that described in my carlier report. From site ! (Boot) came part of the squamous partion of the occipital with the nuchal creat and an abraial retacarpul. The g neral impression one gains from the former is of a very small broad (? dearf island race) of a type not to be distinguished from the wild swine. The abaxial metacarpal is only 34mm. long: this should be compared with that of a edern detection broad which I were boar with to married and white new a larger he w

Length less epiphysis 111.0) modern breed) "

Prox. width 17.0 Pistal width 20.0

Also from site D (East) came a single Fealanx II without opiphyses and representing a very young animal, correspondingly small. It still seems best, at present, to consider the Forneur pig as a semi-feral chimal as suggested in my former paper (Turk 1967).

This species did not occur in the material from the earlier excavation carried out by Miss Dudley but the last two years work have revealed a very few remains which, although they prove the undousted presence of this animal do not, in fact allow it to be characterized except in the most general terms. Two very damaged rib fragments, a small fragment of the maxilla and enother of the mandible as well as a few teeth are all that represent it. small, to judge by the teeth no bigger than a medium sized ass and the enamel pattern of the teeth is much simplified and reduced. I'm has the protocone well developed but approaching a true circular shape whilst the metaconule is so reduced as to be almost absent. The protoconule on the other hand is well developed into a pendant, smoothly rounded lobe. The parastyle is rather poorly developed, pointed and strongly embayed. The pre foscette and post-forcette have an obliquely placed, small super-numbery forsette develore. between them. Other teeth have extremely simple enamel petterns and the single individual seems to have been relatively young. All the remains of the horse came from the eastern section of the midden on Site D. Magazinements of Poeth Po³ 31 x 26 M¹ 22.5 x 24.5 and 21.0 x 23.5 M² 26 x 16 n^3 20.5 x 20.0 Fm, 18 x 13 M, 28.0 x 0.0 #3 36.5 x 15.5

RED DEER (Corvus elaphus)

HORSE

Handford and Pernetta (loc. cit.) found "six incisous and two foot benes" of this species and in my earlier paper on the bones from the Normour site (Turk 1968) I recorded fragments of the times of this species and some minute fragments of other bones tentatively ascribed to the Red Deer and a smaller From Site E Strip 5 came several fragments of Red Deer Antler but unfortunately these were too small to allow of reconstruction of the whole, however a basal fragment with the burr or coronet showed a maximum diameter at the base of 50mm. The only comparative material I have to hand is a 13-pointer which had a maximum diameter of the burr of 66mm. that the antler fragments so far seen do not suggest very good development such as one wight find in true woodland and maybe argue for an animal existing Also from Site E strip 1/2 (suggesting that it may have been part of the same animal as the antlers) was a piece of the proximal end of a metacarpal (max. width 41.5mm.) which was found together with a number of burnt broken bones which may, or may not, have been deer bones. Still another, isolated burr came from the East of Site D. This was smaller measuring only 46mm. in max. diameter, it therefore seems reasonable to assume that, at least, two animals are represented. Finally, at the east end of the midden was found a small fragment of a cervine long bone which had been cut across by Man.

? 10W TW (Correctus capacolus)

There is prowing evidence that another procies of deer is present in Scilly. As I have already published a note on this 10 it need not be repeated now. Those bones, discovered by " . Also Gray in 1935 at Malarry, St. Mary's, included some which the critish Museum expert at that time (? W.P. Tyecraft) reported to be "a small species of deer protectly Ree". Mr. Gray tells me that the pottery currested a Middle Fronze Age context. From the Normour site come several remains which are almost cortainly of this species. A metatereal bone, without epipayses, was referred to the It is long and alia with lateral flattening and deep grooves on the anterior and posterior faces. The total length without the epiphyses measured 150.9sm., with the proximal extremity 34mm. wide and the distal 35mm. It is probably reasonable to assume that, with eciplyses this bone was overall, between 160 and 165cm.; since it was obviously immature this would compare with the length given by huc 17 for the same bone, namely, 185mm. From the S.W. exterior of House I in the Midden material came the distal fragment of another metapodial (believed metatarsal). This too had no epiphysis and gave a distal width of 32mm, and, in general characteristics, agreed well with Roc. There are two other fragments of bone, more tentatively assigned to this species, which came from the East End of the midden on site D. Dense and heavy they are parts of the shaft of what is probably a tibia. One fragment has been cut across and the other appears to have been crushed with a blow from a stone like many of the bones of other stocies, presumably to extract the marrow.

A few other bone fragments believed to be those of Peer because they are whitish, very dense exceptionally heavy and all i, have been retained for further study. There is now firm evidence for the Rod Deer in Scilly in the Bronze to Romano-Fritish periods and almost certain evidence of the Foe. Handford and Pernetta (1.c.) believe there could only have been introduced into the islands by Man but I chall hope to examine the whole question of these insular deer in a later paper. What is certain is that we are not dealing here with the mere importation of antlers for tools but with whole animals both adult and young.

OPEY SEAL (Palicheerus Typus)

Bones of this species are slightly more common than those of the Ox and only a little less common than the Shorp bones, occuring in over three quarters of all the sample bags. Individuals of all ages are represented although adult males, so far as could be ascertained, are rare. Several of the long bones show signs of having been cut, a very few have been worked into tools - especially radii which are made into swl-like implements - and the great majority of the rest have been crushed. No facial and very few anterior cranial bones have been found and this, I believe, supports the suggestion made in my former paper that the animals were slaughtered by siming blows at the foreness of the seal. Nany bullae have been

as no nort remainer frameworks and the convicue of event been fired as no nort remainer frameworks and the convicue vectours. The rection shouldons of the dyer deal, emecially those of the adult vale, are covered with large accordantations of blubber and it bleadfore seem contain that this region of the body was roughly socialised from the rest and the fot malted down to give the insubstants their or blies of all. Justine by the abundance of the coal remains great quantities of all, both from this scarce and from certain of the sea sinds, must have been available to the inhabitants for lighting the interiors of the hute.

Against the exterior of Nouse I wave found a frament of a randible with 5 tooth, part of a vertebra, framents of ribs and a digit. Those appear referable to the Common Poliphin (tall has (elible) a species only slightly raper than the Corporae at the propent time in those sear. From Strip I on Site B care the post part of the cranium, five estocarpals and a tooth of a Cotacean. These were not such no to make a specific identification sociable but, a min, they could have helenaed to the Tolehin. Puring the 1969 excevations a frament of a Cotacean vertebra was recovered from the midden by the F.A. exterior of Found I and from the Unper midden came part of the right occipital and condyle and part of the hadioccipital bone of a whale. The former distinct areas completely with a similar frament of a blusse's Polymin which I micked up on a beach on the large. Scilly, many years and but the similarities are such as to load one to think that there remains too colon bither to the Common Polymin or to Fisse's Polymin.

Cetacean remains are not at all common at this site and it is difficult to believe that wheles were over systematically hunted by the inhabitants: it would appear rather that these tones result from chance strandings such as still take place in the islands. No doubt all such carcasses were rendered down for oil.

IALBANIC VOLE ("Torotus osconomas)

This is apparently the vole referes to in my former paper on Mormour as M. myslis. Tr. Ian Minn made that identification in the absence of mandibles and made a reservation then, that it might, just resembly be the present continental species. Candford and Fernetta (100. cit.) four, no less than six left and 12 right unndibles to other with associated palates and numerous limb behas and upper inclines. At this time I had also discovered five mandibles arens the bones excessed by Misc butcher in 1969 and had indomenantly come to the conclusion that the vole was indeed M. occonomic. The upscies is one muits unlooked for at such a period in these islands and Handford and Fernetta believe that it was introduced by Man in early post-flacial times — a conclusion to which I have some reservations preventing immediate agreement. Mr. Linn and I

plan to make this the embject of a joint sublication in the mean future.

They are mentioned in passing merely to make the found list complete for this site. I have eyest never former, It is difficult to be certain that these are contemporaneous with the Iron Age A context of the other remains for they cirk indeed be later intrusions in these soils. The took Course makes underground runs on occasion and it is possible that, like the hed-foothed shrows, the beilly Shrew may have made use of such runs as well as those of the Volc.

EUTE

Bird bones are present in unusual quantities at almost all perts of the site. It has not been possible as yet to identify all of them, partly because many are too fragmentary and partly because I have not had access to a sufficient range of comparative material. However, most have been retained for further study. Because of the considerable importance which attaches to many of those records those that have been identified with reasonable containty are given here.

? TAVEM (Corvus corsx)

A skull fragment from Site I cooms referable to this species although the identification is not certain. It also occurred in the previous Normour excavations (Turk loc. cit. :.

? FFYLATY (Alsuda prvensis)

I humarus and other fragments of bone were tentatively identified as this species. Handford and Fernetta (loc. cit.) had a similar provisional identification of two femora.

COTTOFICT (Phalacrocorax carbo)

From the Rest End of the Midden came a femur of this species and from Site E a fragment of the occipital portion of the skull. It is difficult to believe that these birds could have been eaten and would provide only limited quantities of oil. It is possible that they were trained for fishing.

GAMMET (Sula bassana)

In the upper filling of House III was a Parso-metatarage of this species and from the upper midden of the Passage came the head of a femur which seems to be that of the Cannot and fragments of other bones which may belong to this species. The pancity of the remains does not argue a gannetry in the area although such are known to have existed in former times in Cornwall and the S.W. generally. Unlike the position at some boottich pre-homan and later sites where the inhabitants seem to have relied largely on this species for supplies of oil, those of scilly ampear to have had to make more use of other sea birds, particularly the inscribility.

COOK TO CATE OF THE PERSON OF

to that of a dome but no certain identification could be and of the species nor whether it was in eed will or demontic. It is worth notice in assimption several large evican along and found which appear to have been split across obliquely and sharpened to a joint, perhaps take powering as an ewl.

N'OV (? Glaccionette elevale)

A broken tibio-tarses from the upper midden was doubtfully identified as Colden eye but may have been another opacies of duck of similar size.

CHITT UNDER (Cleanie cicomia)

The distal and of a tarso-estaterous was so Identified with "resonable containty" of Manaros and Fernetta (Ico oit.". I have a fragment of a huserus from Site E tent, with some small resorvation, is also to be ascribed to this species. at least, I can fine no other wort hurogean bird species that it resembles.

2 2507

A sumerus and part of a tibio-torous of a small wader, peraspe this apecies, were found in the unper infilling of House III. Among the sind bones not get identified reveral seem to belong to other species of Enders which, we a group, make up in sumber of bones the second most numerous group of avian remains. Handford and Pernetta record a wader the size of an Avecet.

PARTURE (Alea torda)

Nany hundreds must have nested on the low cliffs of Sc Tly in the early conturies B.C. and doubtless it was more common than the Guillemot that usually prefers higher cliffs. Like that a scies it no doubt provided the inhabitants with meat, feathers and oil and eags (see Turk 1966).

GBILLY TOP (Tria salge)

The remains of this bird are only a little less numerous than the foregoing. Two skull fragments were taken from the midden.

Harry (Fratorcula arctica)

This species has been by no means as commonly found in this material as in that from the earlier excavations on Mornour (see Note 2). A metacarpus was found with remains of several other bird species in the upper midden material infilling the passage. Pendford and Jernetta record an ulna and fragments of radius. It is difficult to account for this discrepancy in numbers from the two excavations. It might be caused by some short-term fluctuation in the size of the breeding population. For further remarks on this species see Purk 1966.

SHEATTAPED (Suffing ouffing)

The posterior part of the skull of this species came from Site E together with framments of other bones that almost certainly belong to the same individual. Another fragment of a skull - the top portion of a creatum -

and an alma of this openies. The Cherowster is beeningly very colded found at pro- leteric sites on the mestern europena litteral. It would it accorded in considerable numbers, on it does today, and its presence in this material represents the emploitation of its c ance abundance and accordibility in the ismediate environment. It eight well have provided much oil to but it is very doubtful if it was eaten.

PUPIL (Lordix berdix)

A tarso-metatorsas of this species and bono fragments, probably belonging to the same individual, came from the upper filling of House III. It is not uncommon in ouropoun paleoclithic and some neolithic material but in to be accounted a rarity in an Iron has context. It did not occur at Jarlahof but bred on the isle of Samson, Skilly, up to less than two decades ago: although load. quoting borlass, rightly says that it deems to have been introduced there a little refere 1752.

BULLER OF CLOSE (LAmina fortig)

From the Mostern and of the Vieden (Mite I), in a rocket of black soil under small ctones, was found the distal part of a humanus and the tible terms of this new rare species. It has become extinct on the Cornish mainland in recent years but was widespread in the county until the early 19th, century. There are very few records of the species at any Iron Are sites throughout turope and at Jarlahof it is not found until the Viking levels are reached. It means probable - although this is impossible to substantiate from one individual only - that this bird might have bred in Coilly in former times. In Europe it frequents, for choice marshy ground with ruspes and scattered bushes, spharmum covered moors and rocky outcrops surrounded by reather all of which are extremely likely to have occurred in Coilly some two millennia ago.

ENTERIC FOR

In the upper midden of the Pancage occurred the tarse-wetatarsus of this species. The bone is seemingly almost identical with that figured by Irager (fig. 16)²². That author compares the bones of the demestic fowl of Yeman times at Magdalenberg in Austria with those described by Ichweiger²³ from the La Tene oppidum at Manching and finds that, in the La Tene broads, the secondary sex characteristics were much less strongly marked. It is not possible to base an assessment of this on one bone but it will be interesting to discover if further bone material favours an attribution to the later creeds or the earlier. It seems likely that, over a couple of centuries or so, a breed not unlike a small marketock was selected and stabilised by the La Pene geoples. It Jarlipof the demestic fowl does not appear until the early 9th century.

In addition to these species fendford and Pernetta include a firm record of the Song Thrush and a tentative one of the Sren.

1

With bones are commonly found shroughout the Normous site but Yew of those are get proved you ible to identify. A fair decree of certainty are estains to those given below:

Cherry (Conver vulcarie)

Vertebrae of this absciss occur at three parts of the cite and some seem to suggest large individuals. In British waters the conger is known to attain a lanth of at least 9 feet and weigh 160 lbs. The largest of those from Tornour might essably represent 6ft. appearans.

trice (Larus or.)

Facth of this fish and some vertebras occur in the midden material but have not been much more frequently found than in the earlier excevations (Turk 1963). Since it is common on rocky shores the paucity of the remains suggests that the immabitants did not rank it very highly as a good fish.

LING (Tolva rolva)

This has been positively identified by comparison with recent bone material and is not uncommon at most parts of the site. Some very large specimens indeed seem to have been taken parhaps 5 to six feet in length. It is still not uncommonly caught on long lines.

BATS (Morone labrax)

The vertebrae of this species are common in some samples and wheant in others. Its presence undoubtedly marks the season May to August and I hope, in the near future, to undertake an analysis of associated bones to discover any evidence of seasonal variation in the dist of the insatitants.

1061107 (Sadus pollachius)

Vertebrae of this species are widely distributed on the site. I have seen none which suggest a size above 5 or 6 lbs.

S HAND (Merlucciae valcarie)

a clavicle of what is tentatively identified as this species is the only bone in the collection, so far as is known, which can be addresd as evidence of its use by the Iron Age ropulation.²⁴

TUTTOT (Enombus caximus)

The species is represented by a dentary bone, numerous vertebrae and possibly other bones not yet certainly identified. It is fairly commonly found in shallow water (3 to 10 fathoms) and its presence here suggests, very definitely, that there must have been fairly extensively developed shallow sandy bays in Scilly during the Iron Age.

? PLAICE (Flouronectes platessa)

A smaller flatfish believed, but not proven to be this species, occurs fairly frequently. The vertebrae match those of Flaice more closely than any other comparative material available to me. Specimens of this species do not seem to have been cove 7 or 8 inches long, perhaps because the larger individuals move away to deeper waters in the summer.

One important conclusion may be drawn from those fish records; apart

They are included here to give a complete inventory of the minul remains so far discovered.

Programme (entre maina)

This species has ion been used for Luman food and, in places, for soit in fishing. The shells have been used, in remote fishing communities and until suite recent times, as lamps. Coderately common on Normour.

The court work (Vanus vermico.a)

It has been used up to the 19th, century as food in the Island of Herm and in County Clare.

gveren (Ostrac adulis)

Found only from Utrip 5 Dito E. It does not now occur living in Scilly although single valves are occasionally washed up. Attempts were made to introduce it for cultivation in Scillonian waters in the last century out those proved unsuccessful.

The content of the co

Not very commonly found in the material. One would suppose it too small to be opton.

THEY TOP WELL (considert lineata)

Paid in still enten by Scillenians as a substitute for the edible perlyinkle under which name it is often collected.

CONCOS LIVET (Catalla volunta)

The rost plentiful of all sholls in the midden, but not do commonly occurring as in the material from the earlier excavations on this site.
Two of the chells, both bidly abraded, may have belonged to the closely related spacies <u>Perspara</u>.

True as a track to be

- 1. Perits F. L. Toport on the Animal Leveling from Cornour. J. J. Co. N. . (t. IV (1968).
- 2. 12 lov. 1. in Grennel. Journ. Vos. 124 (1968) pros. 1-64.
- 3. Futcher, C.A. Excevations of Normour. Island of Scittly 1969-1970 Interim Forest. Cording technology so. 9. (1979) pps. 77-7.
- 4. Forestte, J.C. ad Bracford, s.d. Taxaslian and Avian Senaine from possible Drongs Age deposits on Bornour, Islan of Cailly. J. Bool., Lond. (1970) 162, 534-540.
- 5. Turk, P.A. Notes on Cornish Nammals in Prehistoric and Distoric Times: 1 Cornish Archaeology Val. 7 (1965) ws. 75-79.
- 6. It is interesting that William Yountt ("Cattle: their breeds management and disease" London 1833) describes a breed of small black abortainal Irich cattle some of which had thick beads and necks and were generally somewant deficient in the hind-quarters. The same author also describes a small black Commish proced, atill procent in small numbers on the western moors of the county in his day. Ho says "they are small, black, with horns rather short, very coarsely board, with large offals, and rarely weighing more than three or Your bundredweight. They bear an evident resorblance to the native orders of 'alco and Scotland." This might well be a good enough general description of the pro-homan Scilly breed for it is in keeping with such ostoclogical characters as are known but, at the same time, the Scillonian broad of pro-Listoric times undoubtedly had certain likenesses to the old bolsh cattle in their lack of symmetry (suggested by some bone fragments) and the variability of the horns. They would, of course, have been much ampliar than the folia breeds. In this connection see "British Freeds of Live Stock" Min. Agr. and Figheries (3rd. ed. 1920).
- 7. Welsh steere sometimes weighed over 15 cwt. and lexters (a derivative of the small Kerry breed of Ireland) just over 6) cwt.
- 6. Yountt (l.c. surra) speaking of the harridean cattle quotes from a Ur. Gornat's "Tour through the highlands", written seemingly at the end of the 18th, contary, to the effect that, very often, the cows were prought into the huts of the crofters in winter and shared the stock of heal with them, "while the cattle, thus sustained, are bled occasionally to form nourisement for the children after the mingled estmeal and blood has been boiled and made into cakes".
- 9. Miss V.I. Platt in Report on the Animal Romes from Jarlahof (in J.F.C. Ramilton Excavations at Jarlahof, Thetland: Vainturch 1956, pps. 211-215) says that, at that site, "From the environt times a small ox was resent resembling the typical Shetland ox of today to other with a larger type". If indeed, the Transento of rather dispresentionately large racil recovered from the Norman site are those of a different breed then the situation was identical with that at Jarlahof. Forever, I can find no other evidence

of a come x took of

de mod in the transfer of the manufacture of the contraction of the manufacture of the ma Direct in Comments . . and Spen or Tell With and Calible Toy. Inth . Hert. All hard composited 1963. aps. 86-91) but is amortant to realize, Lowever, that cattle of a moderately large size . Arminist to troumment the chale of this period and occur to other with the Celtic Gx". In an isolated island such as Scilly the position may well have been different Teverteelous until larger parts of the skull are available for easily and rore complete horn-cores and metapodials. libile more can be bafely said about the Taillanian ox of Ison Are times.

in. It is entirely costible that there cores are the posterior hores of a 4horned breed of sheen or at least one in which d-horned individuals occusionally occur. The Manx sheep, a broad nown us the log ten (? Celtic "lume-it men" (mouse durk)) produces A horned rame as may be seen in those living today at Prescheach. Our leading authority on the listory of sheet breads. Pr. M.L. Pyter. tas stated ("Jecobs Sheep" Nameletion 63. Commonwealth Furgau of Animal Freeding and Conetics, Foinburgh 1969) that there is a toniancy for all the chart-toiled island sneep on the littoral of wortern Europe to Lave m ro than a single cair of horns. The probability of this applying to those of failly is therefore high. It is thereand by the fact that the resterior horns are often goat-like and swept unward and backward, as are those. however, there are other skeletal remains giving evidence of a larger breed and those unusual horns sight well rave belonged to this, both by reason of size as of formation.

There is one, more remote, possibility namely that the cross-section might suggest that they beloaved to the roat. However no cranial bones are attached to them and the horn characters given by Dr. I.V. Cornwall (Hones for the Archeologist. London 1956 p. 73) for distinguishing these two species have not seemed to me very reliable in practice.

- 11. For a simple escription of this method and of somewhat similar findings from a Jaxon site at bhitchall, London, see Chaplin, F.E. "The use of non-morphological criteria in the study of animal demestication from bones found on Archaeological Cites" pps. 231-245 of Ucko. J. and Timbleby, C.V. "The denestication and exploitation of plants and animals" (London. Puckworth and Co. 1969).
- 12. It wast be clearly understood that in such a context as this, the "least number" is a pure abstraction and bears no relation to the actual numbers represented by the bones which were probably a very little less than double.
 - 13. There was indeed an ancient Irish festival, Imbole, believed to have marked the beginning of the evera inctation but this does not at all argue any particular supernatural status for the animal (see lowell, T.Y. "The Celts" London 1958 .

- 14. As is well known there is good evidence of frequent trading between the Land's End/Scilly area and Marseilles in the fragment of a Periplus by Pothess (circa. 330 b.c.) and womenhat weaker evidence for a sea-borne trade between Cadiz and West Cornwall.
- 15. See Ramilton, J.J.C. Excavations at Jarlahof, Shetland. Min. of Works Arch. Fep. No. 1. Edinburgh 1956 page 71 Fig. 37 No. 7.
- 16. Turk, F.A. Notes on Cornish Nammals No. 2. Ann. Rep. Roy. Corn. Polytechnic Soc. 1960 (pps. 42-49).
- 17, <u>Hue. B. Musée Ostéologique. 2 vols. Paris 1907 Librairie C. Reinwald Schleicher Freres, Editeurs.</u>
- 18. This is almost certainly not a species used for food. As is well known, the Faven was part of an Earth cult with the Celtic peoples and is associated with the god Lug. For such information about this bird as cult hero see Armstrong, E.A. "The Folklore of Birds" (Collins, London 1958).
- 19. Dr. J.R. Ritchie (Animal Life in Scotland. Camb. Univ. Press 1920) page 171 says "The inhabitants of the Bass Rock in the beginning of the 19th. century were accustomed to obtain 10 galls. Scots of oil drawn from the Solan".

 A gallon Scots is 3.00651 of an imperial gallon. Again on p. 146 "No bird could well have been more useful to the St. Kildans than the Cannet or Solan Goose whose oil and feathers were of inestimable value, and whose carcesses to the number of over 20,000 were preserved annually for winter fare."

 This illustrates the heavy reliance placed by such island communities on birds. Judging by the numerous avian remains from Nornour such a situation could only have been a little less developed there.
- 20. This community must have had an unusual abundance of animal oil available to them. The seal, chance strandings of whales and many of the seabirds recorded would have been constant sources of supply. Mixed with a little sea-salt to make a more yellow flame it would no doubt have had considerable proporties as an illuminant. It seems to me surprising that this small community found it necessary to produce so much; in the absence of any mining it would be likely that it was greatly in excess of their no doubt otherwise modest needs and one is led to hazard the guess that it may have been traded.
- 21. Rodd, E.". "The Birds of Cornwall and the Scilly Isles" (London 1880). The point is, or course, that the species has maintained itself for over 200 years in the islands and there is therefore no reason to suppose it was not a breeding bird in Iron Age times.
- 22. <u>Pracer</u>, N. Tier Knochen funde aus der Stadt auf dem Magdalensberg bei Klagenfurt in Kärnten. 1. Die Vogel Knochen. (Kärntner Museumsschriften vol. 33 Klagenfurt 1964. pps. 7-54). During the Roman times at this Austrian site the remains of the Domestic Fowl made up 78.4% of all the bird bones and Drager gives an excellent account of its variation and lists all continental records to the

time of ublication. The late From F.E. Mc/nor in "A Fistery of Lowestiested Anheals" bonden 1963 (. 451) says "It may be commed that the aritich foul had not had a lon- history when the Tomans encountered it. Caesar mentioned expressly that the britons would not eat it. and the finds made so "ar show that this bird was not common." In fact, Caesar in his "Commentaries" says "They (i.e. the britons) do not regard it as lawful to eat the hare, cock or goose; however, they break them for amusement and ploasure" (Book V Chap. XII). The word used in the ext is refer which I take to mean here something like 'an implety, an abomination or a sin'. If this is correct the bird may have had a cultic significance for the Iron Are sectle. If the tentative dating given for the Mornour site roves to be correct, then this occurrence of the Domestic Fowl in Scilly is certainly the earliest record of the species in the British Isles.

- 23. Schweiger, T. Zur Fruhreschichte des Haushuhns in Mitteleuropa. Studien an vorund fruhreschichtlichen Mierreston Bayerns 9. (Munchen 1961).

 This contains the most extensive study yet made of Iron Age poultry.

 Although it deals with central european finds it has much that is relevant to Western Europe.
- 24. The Pake does not usually occur in the sites of coastal settlements in Northern and Sestern Nurspe until the early Middle Acos. It is a markedly deep-water species and its presence appears to mark the possession of remarkably sea-worthy craft and considerable navigational skills. There is nothing in the list of fish from Mornour (apart from one clavicle) to suggest that the inhabitants ventured far from the shore at all, indeed all the species could have been caught (but probably were not) from the shore.
 - 25. Lovell, ".S. "The Edible Mollusca of Great Britain and Ireland". London 1867.
 All the notes appended to the mollusca are from this work.