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				Amorphous chunks of typical spongy bone. These had been broken off large limb bones or vertebral centra of animals at least the size of a lesser rorqual (Balaenoptera acutorostrata). One smaller vertebra might be assigned to the pilot whale as being the most																				
				likely, though the size and shape are compatible with several other species. The two large vertebrae used as post holes represent either the common rorqual (Bolaenoptero physious) or a Sibbald's rorqual (8. musculus) or both. Hollowed out vertebrae oostholes of the	e 1																			
À Cherdach Mhor	Hebrides	7 599 Bi	Rural	central area and shaped and handled cups. These could have been filled with fish fat and would serve as lamps and could provide a feeble lisht. It can also be a givet to carry the framework of a door.	3							x						x x	x x			3 4 7	Young and Richardson, 1960 Ritchie and Welfare, 1983	Youns A and Richardson K.M. 1980. A Chaselach Miler. Dimense South Ulit. Proceedings of the Society of Autisauries of Societies 91, 105-172. Richino G, and Wallare H. 1983. Estavations at Archano, Ular. Proceedings of the Society of Archanoris of Societies 13, 100-366.
Ardnave Ayre	Hebrides Orkney	2000 BC AD 60 800 BC AD 80	Broch	Vertebral epiphysis Vessel hollowed out of a whale's vertebra. Occasional whalebones suggest the pariodic exploitation of strandings, although in general marine mammals are surprisingly	x			+														0 1 1	5000, 1913	http://www.uniterustry.nc.us/science
Barvas Bernera Bornais	Outer Hebrides Outer Hebrides Outer Hebrides	AD 900 AD 10 AD 600 AD 11 AD 800 AD 10	0 Rural	scarce on the site Whale bone plaque Worked whale fragment	x			-									1					0 1 1 0 1 1 1 0 1	Armit, 1996 Owen and Dalland, 1999, 83 Buckley et al., 2014	Quen. O. and Dalland. M. 1999. Scar. Sendar: a Visites Boot-Barlot, Tuckwell Press and Historic Endand. Buckley, M., Fraxer, S., Herman, J., Metton, N.D., Muhlills, J. and Paladottr, A.H., 2014. Species identification of archaeological marine mammals using collagen fingerprinting. Journal of Archaeological Science, 41, 61-641.
Bornais Bornais	Outer Hebrides	AD 600 AD 11 AD 600 AD 10	0 Rural	Worked whale fraement Worked whale fraement					1								1		1			2 0 2		Buckley, M., Frazer, S., Herman, J., Melhon, N.D., Mulvill, H., and Palldottir, A.H., 2014. Species identification of archaeological marine mammali using collagen fingerprinting. <i>Journal of Architeological Science</i> , 41, 515-563. Buckley, M., Frazer, S., Herman, J., Melhon, N.D., Mulvill, and Palldottir, A.H., 2014. Species identification of archaeological marine mammali using collagen fingerprinting. <i>Journal of Architeological Science</i> , 41, 515-614.
Bornais Bornais (abandonment kiin/barn)	Outer Hebrides		0 House	Whale bone plaque (3 fraements) Burnt whale vertebra from large whale (butchered with chopper,	1																	1 0 1	Owen and Dalland. 1999 Ingrem, Mulville and Carledge, 2005	Deem. G. and Dalland. M. 1999. Son: Sondor: a Vikina Rost-Bott-Botti Trass and Historic Ensigned. Ingrem, C., Muhelle, J. and Cartelage, J. 2005. Animal Bone. In: N. Sharples, ed. 2005. A Norue Formateed in the Outer Hebriefes Deford: Oxford: Oxf
Bernais (Dine House floors) Bowermadden Bragar	Outer Hebrides		0 Rural	the lateral processes were removed and the bone scorched) Bits of medium sized whale Hair comb Comb, whort, and perforated vertebral epiphysis Unperforated large pin, 1 vice or clamp with a flat base the top	1 3		1															1 0 1 1 0 1 3 0 3	Inerem. Mulville and Carledee. 2005 Clark. 1947 Clark. 1947	Lington, C., Multini, J. end Centida, J. 2000. Minist dont in it. Burgats and 2000 A from a Contrast and contrast and a contrast and a contrast and a contrast and a contrast and contrast and a contrast and
				Unperfortibled large pm, 1 vice or clamp with a that base the top curved and decorated with four rows of dot-in-circle, 1 large pin, notched peg, line stretcher, large whale bone implement, 2 blocks of whal ebone, 2 whale bone blocks with perforations, 1 whale bone	đ																			
Brough of Birsay Bruthack a Tuath	Orkney Outer Hebrides	AD 800 AD 10 800 BC AD 80		rib fragment Small segment of a cup, made from one of the vertebrae of a whale Large fused cetacean vertebrae, rib of large cetacean, unfused	11																	11 0 11 1 0 1	Curle, 1982 Whitelaw, 1929	Curle, C.L. 1982. Petish and Nerse Finds from the Browth of Brisse 1834-74. Society of Antissories of Scotland, Monoaroeh Series J., 1-143. Whitelaw, Ch.E., 1929. Donations to the Museum. Proceedings of the society of Antipuoties, 64, 14.
Bu Buckquoy 1 Buckquoy 2	Orkney Orkney	800 BC AD 20 AD 1150 AD 12 AD 1100 AD 12	2 Rural	cetacean radius, cetacean vertebrae, rib of large cetacean, vertebrae centrum of risht whale? Cetacean bone.	e 3 3	3												1				7 0 7	Hedges, 1987 Ritchie, 1976 Ritchie, 1976	Hodes: 1.W. 1987 Bu Gumess and the Brochs of Orknov. Oxford: BAR Brokin Sories. 136-134. BRothe, J.N.G., 1976. Escavations of Potish and Vising-age farmitiseds at Buckguoy, Orkney. Proceedings of the Society of Antiquaries of Scotland, 108, 174-227.
Buckquoy 3 Buckquoy 4 Buckquoy 5	Orkney Orkney	AD 200 AD 80 AD 200 AD 80 AD 600 AD 69	Rural Rural Rural		1																		1 Ritchie. 1976 1 Ritchie, 1976 1 Ritch, 1976	Rober, A.G. 2023. Description of Robins and Virtues are formational: at backness. Otherse: Proceedings of the Society of Antonious of Actional, 19, 124, 227. Biolet, J.M. 527. Exceedings of Political and Virtues are formational at backness, Otherse, Proceedings of the Society of Antonious Virtues 27, 227. Biolet, J.M. 2023. Discriptional and Virtues are formational at backness, Otherse, Proceedings of the Society of Antonious Virtues and Virtu
Barray	Orkney	800 BC AD 80	Broch	Vessel and wheelike object cut from vertebra 1 intervertebral epiphysis from moderately sized whale, broken; 1 cancellous bone from a whale, broker; 3 teeth, probably from a	1																	1 0 1	1 Clark. 1947	
Burrian Caiste n Caste Bar Dunbar Caste Bar Dunbar	Orkney Orkney East Lothian East Lothian	50 BC AD 79 2500 BC 800 Bi AD 654 AD 95 0 AD 50	Castle	killer whale: 8 teeth possibly from Risso's Dolohin Hammerhead of cetacean bone - Possibly Northern Right Whale or Killer whale	1 17	7	1					3	8									30 0 30 1 0 1 1 0 1 1 0 1	5 MacGregor, 1974 Callander, 1931 5 Smith, 2000 5 Smith, 2000	MacGreen A. 1372. The Both of Burnin. Korth Ronaldau, Ohnen, PhoneAnder of the Society of Antipublics of Societinal. (3): 63-138. Calinder J., 63, 337. Societarias and Balacia Relatigner and Dam Dimansh. Proceeding of the Society of Antipublics of Societinal. (5): 633. Society J., 2000. The animal Bons In: D. R. Perry, 2000. 44. Castla part A Uniban. Polence: Mont Run Press, 534-239. Somith. C. 2000. The animal Bons In: D. R. Perry, 2000. 44. Castla part A Uniban. Polence: Mont Run Press, 534-239.
Castle Bar Dunbar 2		AD 500 AD 15	0 Castle	Possible Northern Rieht Whale or Killer whale 3 fragments of a sperm whale, vertebral epiphysis, a fragment of a	1																	1 0 1	5 Smith. 2000	Smith. C. 2000. The animal bons. In: D.R. Perry 2000. ed. Castle park Dunbar. Devon: Short Run Pess. 284-219.
Castle Hill Pumping Station	Aberdeenshire	AD 1000 AD 13	0 Fishermen site	possible rib and a large fragment of rib, which has been significantly modified. The rib showed signs of chopping and cutting and got holes, and could have been used for architectural features. Smaller rib has signs of burning.					3													303	Bailey et al., 2015	Ballny L.; Holden, T.; Frankin, J.; Smith, C. and Cardo-Carrosco, R.; 2015. An Archaeological Escavation of Medieval Fishermen's Midden at Castle Hill Pumping Station, Banff. <i>CostBit Archaeological Janual</i> , 38:7, 2-35.
Chapal and Burial Ground on St. Ninian's Isle	Shetland		0 Unknown	Two small fragments of cancellous bone.	2	++	+	+	+	+	++	$+ \vdash$	++	\square	++	$\left \right $	+	+	+	+	++	2 0 2		Glowy, L1, 2011. Hand-collected animal bones. In: R.C. Barrowman, 2011 ed. The chapel and barial grand as St. Niniar's Uk, Shefand: Excavations past and present. London: The Society of Mediweal Archaeology, 14-75
				The doctors inguiness a negotime doctor works where it is stake, rectangular in section and expanded at the head where it is slightly damaged, but partially cut. No original bone surface present, maybe used for fishing weight. Other fragment is chopped block of whale bone, shaped with traces of parallel cut marks on smooth	u																			Gidney, L1, 2011. Animal bons. In: R.C. Barrowman, 2011. ed. The chepel and havid grand on St. Kinian's kills, Statiant: Econotions past and present. London: The Society of
Chapal and Burial Ground on St. Ninian's Isle	Shetland	1200 BC 0	Settlement	upper surface. Two worked fragments. 1 fragment worked cancellous whialbebone	8 3	++	+	+		\vdash	++	+			+					+	+	3 0 3	Gidney, 2011	Galdey, J., 2012. Annual Book. In: K.: Surroumain, 2012. ed. The chapter and burst grand at 32. News 1518, Shefould: Exclusion paid and gravest. Landow: The Society of Mediaval Archaeology. 107:351
Chapal and Burial Ground on St. Nitian's Isle II	Shetland	500 BC AD 12	0 Burial site	with large riled central perforation maybe used for fishing, or wooden handle, the whole perhaps acting as a mallet. And another shaped whalebone vertebral centrum.	2		++	+		-					+			+			$\left \right $	2 0 2	Gidney, 2011	Gdney, L1, 2011. Animal bons. In: R.C. Barrowman, 2011 ed. The chepel and barlar grand on St. Rivisn's kills, Statismic Excensions post and present. London: The Society of Medical Academicskies, X87-X55 Gdney, L1, 2011. Animal bons. In: R.C. Barrowman, 2011 ed. The chepel and barlar grand on St. Rivisn's kills, Shetland: Excensions post and present. London: The Society of
Chapal and Burial Ground on St. Ninian's Isle VII Chapal and Burial Ground on St. Ninian's Isle VII	Shetland Shetland	1200 BC AD 20		Amorphous lumps Amorphous lumps	1		\mp															2 0 2		Medicard Archaeology, 107-155 (dirwy L.), 201. And Dook In: IC. Burrowman, 2011. ed. The chapel and burial grand on St. Neisian's Inke, Shetland: Excentions past and present. London: The Society of Medicard Archaeology, 107-155
Clibberswick Clickhimin	Shetland	800 BC AD 80 AD 200 AD 70		A bone cup, or Tankard, made from a vertebral joint of a cetacean, the two adjoing apophyses being skilfully utilised as a handle. Whale scapula, whale caudal vertebra and 6 pieces of cancellous bone.	1	++	+	+		$\left \right $			+		+					$\left \right $	+	1 0 1	MacDonald, 1909 Grahame, 1968	MacDonald, G., 1909. Donations to the museum and library. Proceedings of the society of antipuarities of Sotiend, XUII, 176-177. Golamm, T., 1908. Annual banes, Inc. J. & C. Humitton, 1908. ed. Econolition of Clickhimit: Stritland: Esiteburit: Ner Makeh? Sationery Office: Assemds I.
Cickhimin Constantine's Cave Deerness	Shetland Fife Orkney	AD 200 AD 70 0 AD 80 800 BC AD 80	Cave	bone. - Perforated whale bone	1	Ħ	\mp			Ħ			+	1	Ħ					Ħ	+	8 0 8 1 0 1 1 0 1	Grahame, 1968 Wace and Jehu, 1915 Clark. 1967	Grahama, T., 1988, Annual Jones, IN, J.C., Yaamiton, 1984, et Acrosottov et Clockhung, Martined, Edinburgh, Hur Masjanyi, Sackovang Offica, Aggendu I. Weise, A.H.B., et al. Mar.B.C. exearcation and a field five Accessing of the Science of Adaptives of Sciences, 40, 231-255. Clark, G., 1987, Whales as an Economic Science in Prohibitoric Larone. Actionkr, 32, 45-106.
				1 whatebone cleaver found, a fragment of a flat whatebone 210 by 75 mm and 29 mm thick with two broken perforations on one side and a bevelkel edge on another, another worked fragment of whate bone 132 mm beg 28mm broad and 15 mm thick, is fashioned to a rounded tongue at one end, flat underside with an unfinished																				
	0.000			conical boring on the outside 5 mm, diam., 5mm. deep, and whale bone vertebra (120 by 135 mm and 55m thick), which have been																				
Drimore Dun Mor Vaul Dun Troddan Eglinton Castle	Inner Hebrides Highland North Ayrshire	AD 1400 AD 15	Broch Broch 0 NON Archaeological (castle)	used as sources of raw material. Four whale vertebrae, with perforations. Curved ejece with broad out marks. Casket (made of 6 bone olates with decoration)	4 1 1																		Curle. 1921 NMS. 2019a	MacLaren A., 1974 A More is Novae an Drimere Machael, scoth UKI. Glospow Archeological Journel, B. 5-88. MacRas, K. W. 1976. Mich Work March Anne Andre Bernin H. Tere, Glospow Archeological Journel, B. 5-88. MacRas, W. 1976. The Net York Anne Anne Andre Bernin H. Networks of Glospow Archeological Anne Anno Anno Anno March Marchael, K. 1974. The Network Marchael, Scoth Marchael, Scoth Marchael, S. 1977. The Networks of Scoth Anno Anno Marchael, W. 1977. The Network Marchael, Scoth Marchael, Marchael, Scoth Marchael, S
Elsay File (unknown site)	Highland	800 BC AD 80 AD 1400 AD 15	0 NON Archaeological	- Casket (made of 6 bone plates with decoration)	x 1																	0 1 1	Childe, 1935 NMS. 2019b	Childs, VG, 1985. The Prehistory of Scotlands, Editborgh, 245. MKK (National Museum of Scotlands, 2019b. Casket of a carved wherehore - Available at: http://ms.scran.ac.uk/database/record.php?usi-000-100-049-398 C (Accessed 16-5- 2019).
				3 unidentified bone plaques, 15 cetacean vertebra conainers and lids, 4 haften implements, 2 handles, 10 implemettrs of bone and anter (of which one is a scapula), 1 long handled combs, 1 mirror handle, 7 misc. cetacean bone onbjects, 1 modeling tool, 35																				
				notched imlement and related types (of which 5 are ribs), 2 pendants, 2 perforated plates, 1 points, 1 pinheads, 1 points, 2 points/ pins, 1 polishers/hide-working tools, 3 turned objects, 1																				
Foshigarry & Bac Mhic Connain	Orkney	200 BC AD 80	Settlement	wedges, 2 worked bones [1ulna and 1 humerus], 10 working debris [2 mp/phalanges]. 1 vertebra of a cuvier's beaked whale. 3 unidentified bone plaques, 15 cetacean vertebra conainers and	99		++	+		1												100 0 100	2 Hallen, 1994	Hallin, Y., 1994. The use of bone and antier at Fooligarry and Bac Mhic Connain, two tron Age sites on North List, Western Isles. Proceedings of the Society of Antiquories of Societing, 124, 189-211.
				lids, 4 haften implements, 2 handles, 10 implemetrs of bone and antiler (of which one is a scapula), 1 long handled combs, 1 mirror handle, 7 misc. cetacean bone onbjects, 1 modelling tool, 35 notched imitement and related types (of which 5 are ribs), 2																				
				pendants, 2 perforated plates, 1 points, 1 pinheads, 1 points, 2 points/ pins, 1 polishers/hide-working tools, 3 turned objects, 1 wedges, 2 worked bones (1ulna and 1 humerus), 10 working debris																				Hallen, Y., 1994. The use of Bone and antifer at Foshigarry and Bac Mhic Connain, two Iron Age sites on North Uks, Western Isles. Proceedings of the Society of Antiquories of
Foshigarry & Bac Mhic Connain	Orleney	200 BC AD 80	Settlement	(2 mo/ohalanes). 1 vertebra of a cuvier's beaked whale. Object made from cetacean bone, which in general appearance resembles a turn buckle, on closer examination appears to have	x																	0 1 1		Kotland 124 189-231.
Freswick	Highland	AD 700 AD 14	9 Rural	served some other purpose. Hole in there. Possibly it was a cleat Two whalebone whoris, 7 whalebone snecks (catches for doors or curbe with those of line at the line are not write could indicate	1																	1 0 1	Curle, 1938	10.
Freswick Links	Highland	0 AD 12	9 Bural	cupboards, traces of iron staining on once example, could indicate the mothod of attachement to the door standhion), 2 worked whalebone as earning olices. A other worked whale bones. Triangular plate of orabicana bone, flattened on one face. Fragment of object of ceatecana hone, possibly the handle end of some	15	++	++					_										15 0 15	1 Batey, 1987	Batav, C.E., 1987. Fresnick Links. Calibrass. A re-associated of the Later Norse Lite in Bit Context. Oxford: B.A.R.
			Earth House			1 1																		
Galson	Outer Hebrides	800 BC AD 80		implement. Segment of a large vertebra, a circular hole through the centre; and	2																	2 0 2		Paul. J.E. 2022. Donations. Proceedings of the Society of Antiqueries of Society U1, 250.
Gaisson Garry lochdrach Geiriscolett Gullane	Outer Hebrides Outer Hebrides Outer Hebrides East Lothian	800 BC AD 80 800 BC AD 80	Earth House	imelement. Segment of a large vertebra, a circular holy through the centre; and three smaller lumps party shaped of cetacara bone. <u>Comb</u> Plate of whale bone. Fragment of limb bones and vertebrae of a very large whale.	2 x x x x																	0 1 1 0 1 1	1 Beveridge, 1931 1 Beveridge, 1931 1 Younger, 1936	Newrodge, E., 1931. Lerb Nous et Garry Undriden, Valley Strond. Proceedings of the Society of Antisparies Sociation (J. 2-4). Benziellen – 1933. Benziellen E., Benziellen – Benzweiten – Benzweiten – Benziellen – Benziellen – B
Geirisclett	Outer Hebrides East Lothian Orkney Shetland	800 BC AD 80 800 BC AD 80 10000 BC AD 20	Earth House Settlement Roch Settlement Broch Settlement Paral	implement. Segment of a large vertebra, a circular hole through the centre; and three emilier lumps partly shaped of cetacean bone. <u>Comb</u> Mate of whale bone. Fragment of limb bones and vertebrae of a	2 X X X X 4 1																	0 1 1 0 1 1 0 2 2 0 1 1 4 0 4 1 0 1	1 Beverlige, 1931 Beverlige, 1931 1 Younger, 1935 1 Clark, 1997 1 Clark, 1997 1 Harman, 1995	Reversing E. 1331. Earth House at Gavy techniques. Value Grand Proceedings of the Sociary of Artispane's Scotland, 32–42. Severality E. 1331. Junit Jois III Architecture and Dissocrative Electronics 200.
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Kumber GF Rizes where solution was notife https://doi.org/10.0750/pf645.150.1324 Whalling in the App to post-medianal Socialand: a sociarchanological and biointolecular study of conscion remains from solutient district in cathonics, the Orticney Islands and the Shettland I Islands Youri van den Hurk and Krista McGrath 2021

Sample		Collagen Peptide Markers												
Name	ZooMS ID	P1	A1	A2	В	С	P2	D	E	F1	F2	G1	G2	
WH640	Sperm whale	1079	-	-	1453	1550(?)	1652	2133	-	2883	2899(?)	3023(?)	3039	
WH641	Right whale/Bowhead whale	1079	-	-	1453	1577(?)	1682	2135	-	2883	2899(?)	-	3023	
WH642	Sperm whale	1079	-	1205(?)	1453	1550	1652	2133	-	2883	2899(?)	-	3039	
WH643	Right whale/Bowhead whale	1079	-	-	1453	1577	1682	2135	-	2883	2899	3007(?)	3023	
WH644	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	1566(?)	1638	2119	-	2883	-	-	3023	
WH645	Minke whale	1079	-	-	1441	1577	1652	2135(?)	-	-	-	-	- 1	
WH646	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	2883	-	3007(?)	3023	
WH647	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	2883	2899	-	3023	
WH648	Pilot whale/False killer whale/Risso's dolphin	1063	-	-	1453	-	1638	2119	-	2883	-	-	3023	
WH649	Sowerby's whale/Bottlenose whale	1063	-	1205	1441	1550	1638	2091	-	2883	-	-	3023	
WH650	Right whale/Bowhead whale	1079	-	-	1453	1577	1682	2135	-	2883	2899(?)	-	3023	
WH651	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	2883	2899(?)	-	3023	
WH652	Sowerby's whale/Bottlenose whale	1063	-	1205(?)	1441	1550	1638	2091	-	2883	-	-	3023	
WH653	Bottlenose/Euphrosyne/Common/White-beaked dolphin	1079	-	1205	1453	1566	1638	2119	-	2883	2899	-	3023	
WH654	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	2883	2899	-	3023	
WH655	Humpback whale	1079	-	1205(?)	1453	1566	1652	2135	-	2869	-	-	3023	
WH656	Bottlenose/Euphrosyne/Common/White-beaked dolphin	1079	-	-	1453	-	1638	2119	-	2883	2899(?)	-	3023	
WH657	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	-	1638	2119	-	2883	-	-	3023	
WH658	Sperm whale	1079	-	1205	1453	1550	1652	2133	-	2883	2899	-	3039	
WH659	Sperm whale	1079	-	1205(?)	1453	1550	1652	2133	-	2883	2899	-	3039	
WH660	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	1566	1638	2119	-	2883	-	-	3023	
WH661	Probable Pilot whale/False killer whale/Risso's dolphin	1063(?)	-	-	1453	-	1638(?)	2119	-	2883	-	-	3023	
WH662	Humpback whale	1079	-	1205	1453	1566	1652	2135	-	2869	-	-	3023	
WH663	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205(?)	1453	1566	1638	2119	-	2883	-	-	3023	
WH664	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	1566	1638	2119	-	2883	-	-	3023	
WH665	Grey whale	1079	-	-	1453	1566	1652	2135	-	2899	-	-	3023	
WH666	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	2883	-	-	3023	
WH667	Sperm whale	1079	-	1205(?)	1453	1550(?)	1652	2133	-	2883	2899	-	3039	
WH668	Humpback whale	1079	-	-	1453	1566	1652	2135	-	2869	-	-	3023	
WH669	Sperm whale	1079	-	1205	1453	1550	1652	2133	-	2883	2899	-	3039	
WH670	Right whale/Bowhead whale	1079	-	1205	1453	1577	1682	2135	-	-	-	-	- 1	
WH671	Sperm whale	1079	-	1205	1453	1550	1652	2133	-	2883	2899(?)	-	3039	
WH672	Humpback whale	1079	-	1205	1453	1566	1652	2135	-	2869	-	-	3023	
WH673	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	-	1638	2119	-	2883	-	-	3023	
WH674	Sperm whale	1079	-	1205	1453	1550	1652	2133	-	2883	2899(?)	3023	3039	
WH675	Pilot whale/False killer whale/Risso's dolphin	1063	-	1205	1453	1566	1638	2119	-	2883	-	-	3023	
WH676	Pilot whale/False killer whale/Risso's dolphin	1063	-	-	1453	1566(?)	1638	2119	-	2883	-	-	3023	

(?) Indicates peptide likley present but peaks were of poor quality or below the selected m/z threshold.

- Indicates no peak present for a particular peptide marker.

Supplementary Table 2. ZooMS identifications for all samples, along with collagen peptide markers used to make the identifications. Reference peptide markers are taken from Buckley et al. 2009, Kirby et al. 2013, and Welker et al. 2016.

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Whaling in Iron Age to post-medieval Scotland: a zooarchaeological and biomolecular study of cetacean remains from selected sites in Caithness, the Orkney Islands and the Shetland Islands Youri van den Hurk and Krista McGrath 2021

Site	Sample number	ZooMS ID	Date	Specimen extra info	Specimen description	Butchery
Brough of Birsay	31	North Atlantic right whale/Bowhead whale	AD 950-1200	HB289 (B3y) (Upper Norse horizon, Room 13)	Small piece of whalebone, rough surface with crudely incised cross	Superficial cut mark
Brough of Birsay Brough of Birsay	33 32	Humpback whale Sperm whale	AD 850-1000 AD 850-1000	HB278 (Area II, Room 3) HB288 (Area II, Middle Norse horizon, Room 11)	Small whale bone hook? Two rectangular whale bone tables. 90 mm x 60 m x 10 mm	Working waste? Several chopmarks visible
Deerness	6	Minke Whale	AD 900-1200	Δ3229. BOD11. C222. T23.663, E130.430, N488.353	Unidentified bone	Several cutmarks
Deerness	7	North Atlantic right whale/Bowhead whale	AD 900-1200	Δ3226. BOD11. C250. T23.509, E129.898, N486.782, 7/7/2011. BH3C	Unidentified bone	Several chopmarks
Freswick Links	29	Humpback whale	AD 1000-1300	IL 544 (Found clearing off sand on south side of Building V)	Sneck (two pieces glued together with orange glue)	Hole drilled in the middle of specimen
Freswick Links	28	Sperm whale	AD 1000-1300	IL 545 (1939 571); 8.12.2 (Building I floor level, clm from south wall on drain cover)	Sneck (with hole drilled in it)	Cutmark on one end of specimen
Freswick Links	30	Sperm whale	AD 1000-1300	IL 546 (1939 572); 8.12.3 (Found clearing floor at south side towards west end of Building IV)		
Jarlshof	13	Bottlenose/Sowerby's beaked whale	2500 BC - AD 1300	1935-50-34 (number 13)	Vertebra (unfused both sides)	Several chopmarks
Jarlshof	14	Bottlenose/Striped/ Common/White- beaked dolphin	AD 850-1000	1950-1-34	Vertebra (unfused both sides)	
Jarlshof	15	North Atlantic right whale/Bowhead whale	AD 850-1000	1950-1-34	Cranial fragment or large whale	
Jarlshof	16	Humpback whale	AD 850-1300	1952-1-34	Vertebra fragment. At least one side unfused. Partially burned	
Jarlshof	17	Bottlenose/Striped/ Common/White- beaked dolphin	AD 850-1300	1952-1-34 (70)	Vertebra (thoracic?, both sides unfused)	1 chopmark on transverse process and 1 chopmark on vertebral body
Jarlshof	18	Pilot/False killer/Risso's	AD 850-1300	1949-1-34	Atlas, axis, and third and fourth cervical vertebrae (fused together)	
Jarlshof Jarlshof	19 20	Sperm Whale Sperm Whale	AD 850-1300 AD 850-1300	1949-1-34 1949-1-34	Unidentified bone Unidentified bone	Several chopmarks Several chopmarks
Jarlshof	20	Pilot/False killer/Risso's	200 BC - AD 800	1952-1-34 (RPA Layer)	Vertebra (lumbar of caudal, unfused	
		Pilot/False killer/Risso's			both sides) phalanx (proximal side fusing, distal	1 chopmark proximal end and 1
Jarlshof	22		200 BC - AD 800	1952-1-34 (RPA Layer)	side unfused)	chopmark on shaft
Jarlshof Jarlshof	23a 24a	Pilot/False killer/Risso's Pilot/False killer/Risso's	200 BC - AD 800 200 BC - AD 800	1952-1-34 (RPA Layer) 1952-1-34 (RPA Layer)	Rib fragment Four unidentfied bones	1 cutmark Working waste?
Jarlshof	23	Humpback whale	2500 BC - AD 1300			Numerous cut- and chopmarks on both cranial and caudal side as well as lateral sides + 2 holes drilled in cranial articulation
Jarlshof	24	Pilot/False killer/Risso's		HSA 4127	Vertebral epiphysis	Hole drilled in the centre
Jarlshof	25	Pilot/False killer/Risso's	200 BC - AD 800	HSA 4125	Vertebral epiphysis Large vertebral body. Hollowed out, probably used as storage container. Hollowing out also started on other	Hole drilled in the centre Heavily worked. Chopmark on one
Jarlshof	26	Grey whale	200 BC - AD 800	HSA 3210	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue	side
Jarlshof Jarlshof	26	Grey whale North Atlantic right whale/Bowhead whale		HSA 3210 HSA 4116 (1965.936)	side, but process ceased there. Both sides fused. One piece broke off and	Square hole in bone (broken) +
					side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue	
Jarlshof	27	North Atlantic right whale/Bowhead whale	2500 BC - AD 1300	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece	Square hole in bone (broken) + modern looking hole
Jarlshof Quoygrew	27	North Atlantic right whale/Bowhead whale Sperm Whale	2500 BC - AD 1300 AD 900-1000	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew	27 1 2	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale	2500 BC - AD 1300 AD 900-1000 AD 900-1000	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew Quoygrew	27 1 2 3	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Sperm Whale	2500 BC - AD 1300 AD 900-1000 AD 900-1000 AD 1200-1600	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date 28/9/04. Finder JH. Bone ID 8850 Δ61767. Context F685. QG04. AREA F/FX. E -37.167, N -20.787, T 5.788. Date 5/8/04. Finder FB. Bone ID 8853	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment Unidentified large bone fragment	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew Quoygrew Quoygrew	27 1 2 3 4 5	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale	2500 BC - AD 1300 AD 900-1000 AD 900-1000 AD 1200-1600 AD 1000-1200 AD 1400-1600	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date 28/9/04. Finder JH. Bone ID 8850 Δ61767. Context F685. QG04. AREA F/FX. E -37.167, N -20.787, T 5.788. Date 5/8/04. Finder FB. Bone ID 8853 (Earliest - Latest phase of House 4) Δ61769. Context F676. QG04. Area FX. E -39,129, N -11.459, T 5.765. Date	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment Unidentified large bone fragment	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew	27 1 2 3 4 5	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Pilot/False Killer/Risso's	2500 BC - AD 1300 AD 900-1000 AD 900-1000 AD 1200-1600 AD 1000-1200 AD 1400-1600	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date 28/9/04. Finder JH. Bone ID 8850 Δ61767. Context F685. QG04. AREA F/FX. E -37.167, N -20.787, T 5.788. Date 5/8/04. Finder FB. Bone ID 8853 (Earliest - Latest phase of House 4) Δ61769. Context F676. QG04. Area FX. E -39,129, N -11.459, T 5.765. Date 5/8/04, Finder ST. Bone ID 5581 QG 99 ARA G 3/6/99 G002 QG99 G008-8004 (Fish midden and	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment Unidentified large bone fragment Five pieces of cranium?	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew	27 1 2 3 4 5 8	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Pilot/False Killer/Risso's North Atlantic right whale/Bowhead whale	2500 BC - AD 1300 AD 900-1000 AD 900-1000 AD 1200-1600 AD 1200-1600 AD 1400-1600 AD 1400-2000	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date 28/9/04. Finder JH. Bone ID 8850 Δ61767. Context F685. QG04. AREA F/FX. E -37.167, N -20.787, T 5.788. Date 5/8/04. Finder FB. Bone ID 8853 (Earliest - Latest phase of House 4) Δ61769. Context F676. QG04. Area FX. E -39,129, N -11.459, T 5.765. Date 5/8/04, Finder ST. Bone ID 5581 QG 99 ARA G 3/6/99 G002	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment Unidentified large bone fragment Five pieces of cranium? Unidentified large bone fragment	Square hole in bone (broken) + modern looking hole 1 cutmark
Jarlshof Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew Quoygrew	27 1 2 3 4 5 8 9	North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Sperm Whale North Atlantic right whale/Bowhead whale Pilot/False Killer/Risso's North Atlantic right whale/Bowhead whale Pilot/False Killer/Risso's	2500 BC - AD 1300 AD 900-1000 AD 900-1000 AD 1200-1600 AD 1200-1600 AD 1400-1600 AD 1400-1600 AD 1800-2000 AD 1000-1300	HSA 4116 (1965.936) QG01-G037-589 (Lower block of Farm Mound midden in Areas G1 and G2) QG01-G037-596 (Lower block of Farm Mound midden in Areas G1 and G2) Δ10006. QG04 Area J2. E -23.925, N- 26.885, T5.5577. Context J010, Date 28/9/04. Finder JH. Bone ID 8850 Δ61767. Context F685. QG04. AREA F/FX. E -37.167, N -20.787, T 5.788. Date 5/8/04. Finder FB. Bone ID 8853 (Earliest - Latest phase of House 4) Δ61769. Context F676. QG04. Area FX. E -39,129, N -11.459, T 5.765. Date 5/8/04, Finder ST. Bone ID 5581 QG 99 ARA G 3/6/99 G002 QG99 G008-8004 (Fish midden and farm mound contexts)	side, but process ceased there. Both sides fused. One piece broke off and glued back on it with orange glue Mandible piece Unidentified large bone fragment Unidentified large bone fragment Unidentified large bone fragment Five pieces of cranium? Unidentified large bone fragment Rib of medium sized cetacean	Square hole in bone (broken) + modern looking hole 1 cutmark

Supplementary Table 3. Overview of samples analysed

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