

Supplementary Data S1 Mean of triplicate measurements (in mm) taken from left and right Pacific walrus (*Odobenus rosmarus divergens*) mandibles with fully fused mandibular symphysis. Catalog numbers (UAM ID) were assigned by the researcher (NT) when UAM ID was unavailable. Time period was abbreviated as: MOD: modern; ARC: archaeological. Sex was noted as: F: female; M: male; U: unknown. Measurements are abbreviated as: LML: left mandible length; LMH: left mandible height; LMD: left minimum mandible depth; LMT: left minimum mandible thickness; RML: right mandible length; RMH: right mandible height; RMD: right minimum mandible depth; RMT: right minimum mandible thickness. female: n=28, male: n=42, unknown-sex: n=21.

UAM ID	Time Period	Sex	Mean Mandible Measurements [mm]							
			LML	LMH	LMD	LMT	RML	RMH	RMD	RMT
11692	MOD	F	-	-	-	-	229.28	78.73	51.51	21.79
130625	MOD	F	-	-	-	-	236.87	78.64	54.97	18.68
10538	MOD	F	233.18	75.42	52.39	18.01	230.66	75.93	53.90	19.37
11684	MOD	F	231.21	75.69	49.90	16.21	229.88	78.09	50.17	15.64
11696	MOD	F	238.24	81.59	53.11	17.78	236.43	79.01	53.40	17.00
11700	MOD	F	246.25	95.74	58.01	21.17	-	-	-	-
11705	MOD	F	234.73	85.78	57.27	21.10	-	-	-	-
11707	MOD	F	-	-	-	-	242.83	84.87	54.21	24.11
11708	MOD	F	237.81	84.34	57.07	22.49	-	-	-	-
11709	MOD	F	237.25	84.76	63.24	25.70	-	-	-	-
11710	MOD	F	-	-	-	-	236.38	83.04	52.82	21.82
16586	MOD	F	-	-	-	-	245.57	74.61	52.58	21.22
16587	MOD	F	227.69	80.10	50.20	17.81	-	-	-	-
16588	MOD	F	-	-	-	-	231.65	76.86	50.85	16.35

16589	MOD	F	224.10	75.45	47.55	16.15	228.30	75.08	46.08	16.27
16590	MOD	F	-	-	-	-	232.70	75.51	47.90	20.32
16591	MOD	F	238.17	77.93	54.97	21.36	240.69	77.20	55.37	21.56
16592	MOD	F	221.78	82.73	54.30	21.15	223.23	86.34	53.84	20.97
16593	MOD	F	231.04	79.36	48.76	18.34	-	-	-	-
99597	MOD	F	228.72	82.97	54.81	18.33	-	-	-	-
125957	MOD	F	245.69	82.94	58.57	19.56	247.94	78.46	58.61	18.18
130619	MOD	F	246.47	86.50	60.94	23.64	-	-	-	-
130620	MOD	F	216.73	76.55	51.21	17.43	-	-	-	-
134799	MOD	F	264.03	88.31	57.48	20.04	260.71	86.41	58.39	19.25
11685	MOD	F	223.34	77.76	49.52	19.48	223.14	78.77	49.27	19.78
11689	MOD	F	178.98	58.48	40.67	12.03	-	-	-	-
11691	MOD	F	180.69	61.19	41.93	12.89	-	-	-	-
11693	MOD	F	-	-	-	-	205.03	68.41	43.02	14.40
4861	MOD	M	296.14	113.02	76.44	41.64	293.97	111.80	72.80	39.74
5220	MOD	M	262.42	95.07	66.10	33.24	-	-	-	-
7277	MOD	M	295.54	112.51	83.46	43.11	294.46	110.43	81.41	42.45
11694	MOD	M	291.03	102.37	75.28	44.30	291.45	102.12	75.88	43.60
11699	MOD	M	232.13	78.34	50.25	17.31	236.39	77.39	51.31	15.71
11711	MOD	M	286.19	105.53	79.27	33.51	288.88	104.23	73.51	32.27
12070	MOD	M	302.90	101.71	76.20	37.78	302.22	103.05	74.40	37.49
12071	MOD	M	293.83	103.91	76.32	40.12	-	-	-	-
12073	MOD	M	314.16	98.81	71.31	38.63	316.81	99.70	72.95	38.29
12074	MOD	M	292.76	97.54	72.98	41.49	291.48	95.32	70.39	42.75
12075	MOD	M	-	-	-	-	307.56	109.12	74.93	45.67
12076	MOD	M	312.14	106.26	73.78	31.72	306.88	108.47	73.62	30.35
12077	MOD	M	300.46	105.05	69.53	31.95	296.68	101.42	71.35	31.94
12078	MOD	M	299.27	107.14	77.90	34.70	299.43	108.59	77.71	35.55
12079	MOD	M	302.92	108.09	74.43	41.02	306.66	105.66	73.50	38.09
12080	MOD	M	283.81	101.67	64.98	36.40	283.63	100.09	65.06	35.35
12081	MOD	M	299.81	116.38	80.84	45.94	303.01	114.94	82.68	43.37

12082	MOD	M	316.25	108.28	82.83	43.16	317.05	105.48	81.76	43.54
12083	MOD	M	283.66	102.54	63.63	36.39	-	-	-	-
12084	MOD	M	275.60	99.24	68.89	38.14	276.83	98.74	69.10	38.72
12085	MOD	M	293.25	105.15	81.87	46.91	292.92	108.61	84.98	47.18
12086	MOD	M	285.98	108.72	78.49	37.83	294.25	104.72	77.13	38.54
14793	MOD	M	294.22	95.72	67.66	35.84	297.30	98.25	66.31	36.44
87001	MOD	M	284.54	99.80	73.01	33.87	287.44	99.47	70.72	32.91
87003	MOD	M	300.00	104.89	84.03	42.46	302.28	105.20	80.28	45.00
87004	MOD	M	316.85	105.44	81.55	46.27	315.73	106.90	81.20	45.54
87006	MOD	M	285.42	97.63	75.14	37.16	287.79	99.44	71.15	38.20
87009	MOD	M	-	-	-	-	273.46	88.00	65.11	39.61
87329	MOD	M	277.86	99.19	67.95	36.83	-	-	-	-
87330	MOD	M	307.99	107.56	76.15	40.06	-	-	-	-
99578	MOD	M	288.08	86.59	67.64	34.85	289.72	85.96	69.29	33.03
99586	MOD	M	303.16	104.47	80.17	42.87	309.17	104.88	81.87	43.80
99596	MOD	M	293.06	98.62	69.87	36.98	-	-	-	-
134798	MOD	M	293.09	96.85	74.38	38.95	298.04	98.41	75.42	39.49
3382	MOD	M	239.43	79.56	57.64	22.42	236.39	76.74	56.50	22.89
11681	MOD	M	245.60	89.39	59.53	23.54	240.30	88.69	58.30	25.50
11683	MOD	M	230.76	77.71	52.13	19.39	228.55	77.97	51.37	19.65
11690	MOD	M	174.86	61.86	44.49	14.47	174.87	59.56	44.43	13.91
11695	MOD	M	-	-	-	-	189.74	65.89	48.69	16.95
11706	MOD	M	202.04	69.68	46.13	14.89	-	-	-	-
12069	MOD	M	256.79	92.52	66.39	32.15	254.95	95.07	67.31	32.42
11688	MOD	M	185.87	62.95	42.88	13.43	-	-	-	-
5218	MOD	U	242.23	80.06	63.68	23.35	242.71	82.70	62.11	22.67
99584	MOD	U	-	-	-	-	285.45	95.21	67.06	28.54
125513	MOD	U	-	-	-	-	312.03	108.78	80.68	41.37
125515	MOD	U	294.22	103.09	73.89	37.21	290.39	100.93	69.65	39.50
Elephant Point	MOD	U	248.87	80.40	54.65	18.96	250.80	80.09	54.31	20.46
House 1	MOD	U	221.44	72.86	48.30	16.37	228.70	71.69	49.82	15.93

Newspaper	MOD	U	234.38	83.93	56.89	21.34	236.73	84.58	56.48	20.07
No Chin	MOD	U	-	-	-	-	-	-	-	-
Orange bone	MOD	U	253.35	83.37	57.39	21.66	251.70	77.52	55.88	20.96
5230	MOD	U	207.92	68.66	51.02	16.26	212.37	71.06	40.32	15.47
No ID	ARC	U	-	-	-	-	226.34	84.56	51.66	18.29
No ID	ARC	U	235.83	84.72	56.38	20.83	240.42	86.03	53.81	21.71
UA72-060-0045	ARC	U	-	-	-	-	-	-	-	-
UA72-065-0518	ARC	U	-	-	-	-	257.08	95.81	61.57	38.68
UA72-065-0521	ARC	U	271.72	93.55	66.65	38.81	-	-	-	-
UA72-065-0522	ARC	U	238.36	80.06	50.43	20.2	239.22	80.54	52.84	21.01
UA72-065-0525	ARC	U	242.22	88.68	54.71	24.65	244.62	88.08	57.55	24.1
UA72-065-0526	ARC	U	257.52	92.9	59.26	33.22	-	-	-	-
UA72-065-0529	ARC	U	261.2	102.76	68.43	37.51	-	-	-	-
UA72-065-0530	ARC	U	286.67	96.68	72.51	37.91	-	-	-	-
UA72-065-0534	ARC	U	302.44	114.44	92.05	51.77	292.3	111.86	89.46	50.72