Supplementary Data S1  Mean of triplicate measurements (in mm) taken from left and right Pacific walruses (*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 | 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 |
| MOD | F | 224.10 | 75.45 | 47.55 | 16.15 | 228.30 | 75.08 | 46.08 | 16.27 |
| MOD | F | -     | -     | -     | -     | 232.70 | 75.51 | 47.90 | 20.32 |
| MOD | F | 238.17 | 77.93 | 54.97 | 21.36 | 240.69 | 77.20 | 55.37 | 21.56 |
| MOD | F | 221.78 | 82.73 | 54.30 | 21.15 | 223.23 | 86.34 | 53.84 | 20.97 |
| MOD | F | 231.04 | 79.36 | 48.76 | 18.34 | -      | -     | -     | -     |
| MOD | F | 228.72 | 82.97 | 54.81 | 18.33 | -      | -     | -     | -     |
| MOD | F | 245.69 | 82.94 | 58.57 | 19.56 | 247.94 | 78.46 | 58.61 | 18.18 |
| MOD | F | 246.47 | 86.50 | 60.94 | 23.64 | -      | -     | -     | -     |
| MOD | F | 216.73 | 76.55 | 51.21 | 17.43 | -      | -     | -     | -     |
| MOD | F | 264.03 | 88.31 | 57.48 | 20.04 | 260.71 | 86.41 | 58.39 | 19.25 |
| MOD | F | 223.34 | 77.76 | 49.52 | 19.48 | 223.14 | 86.41 | 58.39 | 19.78 |
| MOD | F | 178.98 | 58.48 | 40.67 | 12.03 | -      | -     | -     | -     |
| MOD | F | 180.69 | 61.19 | 41.93 | 12.89 | -      | -     | -     | -     |
| MOD | F | -     | -     | -     | -     | 205.03 | 68.41 | 43.02 | 14.40 |
| MOD | M | 296.14 | 113.02 | 76.44 | 41.64 | 293.97 | 111.80 | 72.80 | 39.74 |
| MOD | M | 262.42 | 95.07 | 66.10 | 33.24 | -      | -     | -     | -     |
| MOD | M | 295.54 | 112.51 | 83.46 | 43.11 | 294.46 | 110.43 | 81.41 | 42.45 |
| MOD | M | 291.03 | 102.37 | 75.28 | 44.30 | 291.45 | 102.12 | 75.88 | 43.60 |
| MOD | M | 232.13 | 78.34 | 50.25 | 17.31 | 236.39 | 77.39 | 51.31 | 15.71 |
| MOD | M | 286.19 | 105.53 | 79.27 | 33.51 | 288.88 | 104.23 | 73.51 | 32.27 |
| MOD | M | 302.90 | 101.71 | 76.20 | 37.78 | 302.22 | 103.05 | 74.40 | 37.49 |
| MOD | M | 293.83 | 103.91 | 76.32 | 40.12 | -      | -     | -     | -     |
| MOD | M | 314.16 | 98.81 | 71.31 | 38.63 | 316.81 | 99.70 | 72.95 | 38.29 |
| MOD | M | 292.76 | 97.54 | 72.98 | 41.49 | 291.48 | 95.32 | 70.39 | 42.75 |
| MOD | M | -     | -     | -     | -     | 307.56 | 109.12 | 74.93 | 45.67 |
| MOD | M | 312.14 | 106.26 | 73.78 | 31.72 | 306.88 | 108.47 | 73.62 | 30.35 |
| MOD | M | 300.46 | 105.05 | 69.53 | 31.95 | 296.68 | 101.42 | 71.35 | 31.94 |
| MOD | M | 299.27 | 107.14 | 77.90 | 34.70 | 299.43 | 108.59 | 77.71 | 35.55 |
| MOD | M | 302.92 | 108.09 | 74.43 | 41.02 | 306.66 | 105.66 | 73.50 | 38.09 |
| MOD | M | 283.81 | 101.67 | 64.98 | 36.40 | 283.63 | 100.09 | 65.06 | 35.35 |
| MOD | M | 299.81 | 116.38 | 80.84 | 45.94 | 303.01 | 114.94 | 82.68 | 43.37 |
| MOD | M | 12082 | 316.25 | 108.28 | 82.83 | 43.16 | 317.05 | 105.48 | 81.76 | 43.54 |
| MOD | M | 12083 | 283.66 | 102.54 | 63.63 | 36.39 | - | - | - | - |
| MOD | M | 12084 | 275.60 | 99.24 | 68.89 | 38.14 | 276.83 | 98.74 | 69.10 | 38.72 |
| MOD | M | 12085 | 293.25 | 105.15 | 81.87 | 46.91 | 292.92 | 108.61 | 84.98 | 47.18 |
| MOD | M | 12086 | 285.98 | 108.72 | 78.49 | 37.83 | 294.25 | 104.72 | 77.13 | 38.54 |
| MOD | M | 14793 | 294.22 | 95.72 | 67.66 | 34.84 | 297.30 | 98.25 | 66.31 | 36.44 |
| MOD | M | 87001 | 284.54 | 99.80 | 73.01 | 33.87 | 287.44 | 99.47 | 70.72 | 32.91 |
| MOD | M | 87003 | 300.00 | 104.89 | 84.03 | 42.46 | 302.28 | 105.20 | 80.28 | 45.00 |
| MOD | M | 87004 | 316.85 | 105.44 | 81.55 | 46.27 | 315.73 | 106.90 | 81.20 | 45.54 |
| MOD | M | 87006 | 294.22 | 95.72 | 67.66 | 34.84 | 297.30 | 98.25 | 66.31 | 36.44 |
| MOD | M | 87009 | 284.54 | 99.80 | 73.01 | 33.87 | 287.44 | 99.47 | 70.72 | 32.91 |
| MOD | M | 87329 | 277.86 | 99.19 | 67.95 | 34.84 | 278.79 | 99.47 | 70.72 | 32.91 |
| MOD | M | 87330 | 307.99 | 104.89 | 84.03 | 42.46 | 302.28 | 105.20 | 80.28 | 45.00 |
| MOD | M | 99578 | 288.08 | 99.80 | 73.01 | 33.87 | 287.44 | 99.47 | 70.72 | 32.91 |
| MOD | M | 99586 | 300.00 | 105.44 | 81.55 | 46.27 | 315.73 | 106.90 | 81.20 | 45.54 |
| MOD | M | 99596 | 293.06 | 98.62 | 69.87 | 34.84 | 297.30 | 98.25 | 66.31 | 36.44 |
| MOD | M | 134798 | 293.09 | 96.85 | 74.38 | 34.84 | 298.04 | 98.41 | 75.42 | 39.49 |
| MOD | M | 3382 | 237.43 | 79.56 | 57.64 | 22.42 | 236.39 | 76.74 | 56.50 | 22.89 |
| MOD | M | 11681 | 245.60 | 89.39 | 67.66 | 23.54 | 240.30 | 88.69 | 58.30 | 25.50 |
| MOD | M | 11683 | 230.76 | 77.71 | 52.13 | 19.39 | 228.55 | 77.97 | 51.37 | 19.65 |
| MOD | M | 11690 | 174.86 | 61.86 | 44.49 | 14.47 | 174.87 | 59.56 | 44.43 | 13.91 |
| MOD | M | 11695 | - | - | - | - | 189.74 | 65.89 | 48.69 | 16.95 |
| MOD | M | 11706 | 202.04 | 69.68 | 46.13 | 14.47 | - | - | - | - |
| MOD | M | 12069 | 256.79 | 92.52 | 66.39 | 32.15 | 254.95 | 95.07 | 67.31 | 32.42 |
| MOD | M | 11688 | 185.87 | 62.95 | 42.88 | 13.43 | - | - | - | - |
| MOD | U | 5218 | 242.23 | 80.06 | 63.68 | 23.35 | 242.71 | 82.70 | 62.11 | 22.67 |
| MOD | U | 99584 | - | - | - | - | 285.45 | 95.21 | 67.06 | 28.54 |
| MOD | U | 125513 | - | - | - | - | 312.03 | 108.78 | 80.68 | 41.37 |
| MOD | U | 125515 | 294.22 | 103.09 | 73.89 | 37.21 | 290.39 | 100.93 | 69.65 | 39.50 |

**Elephant Point**

| MOD | U | 125513 | 248.87 | 80.40 | 54.65 | 18.96 | 250.80 | 80.09 | 54.31 | 20.46 |

**House 1**

| MOD | U | 125515 | 221.44 | 78.65 | 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 |