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|  | **Supplemental Table 1. Radiocarbon Dates from Islands of the Four Mountains**  **(see Supplemental Table 2 for fractionation)** | | | | | | | |
| **Site** | **Unit** | **Layer** | **14Cdate (BP)** | **Lab No. (UCIAMS)** | **Calibrated 1 sigma, Calib 7.1.0** | **Calibrated 2 sigma, Calib 7.1.0** | **Material** |
| SAM0014 | Unit 1, HP 1 | 60 cm bs | 320±20 | 147354 | 314-330 (19.7) | 307-336 (20.5) | Wood (unidentified) |
| 359-413 (66.4) | 348-459 (79.5) |
| 418-429 (13.9) |
| SAM0014 | Unit 1, HP 1 | Layer A | 2485±20 | 167644 | 2494-2545 (38.3) | 2489-2645 (75.9) | *Local Wood (crowberry, Empetrum nigrum)* |
| 2556-2598 (32.0) | 2647-2715 (24.1) |
| 2610-2619 (6.7) |
| 2629-2639 (7.4) |
| 2682-2704 (15.6) |
| SAM0014 | Unit 1, HP 1 | Layer A | 2250±20 | 183748 | 2184-2197 (15.0) | 2159-2250 (63.7) | *Branta* |
| 2203-2233 (44.3) | 2300-2339 (36.3) |
| 2306-2329 (40.7) |
| SAM0014 | Unit 1, HP 1 | Layer B | 2230±15 | 175114 | 2164-2166 (1.1) | 2157-2264 (84.5) | *Local Wood (crowberry, Empetrum nigrum)* |
| 2180-2241 (86.5) | 2298-2322 (15.5) |
| 2303-2311 (12.4) |  |
| SAM0014 | Unit 1, HP 1 | Layer B | 2230±15 | 183749 | 2164-2166 (1.1) | 2157-2264 (84.5) | *Branta* |
| 2180-2241 (86.5) | 2298-2322 (15.5) |
| 2303-2311 (12.4) |
| SAM0014 | Unit 1, HP 1 | Layer C | 2710±20 | 167645 | 2774-2802 (56.1) | 2764-2850 (100) | *Local Wood (crowberry, Empetrum nigrum)* |
| 2818-2843 (43.9) |
| SAM0014 | Unit 1, HP 1 | Layer C | 2990±15 | 183745 | 3158-3209 (100) | 3079-3093 (7.0) | *Hemilepidotus* |
| 3109-3130 (6.3) |
| 3138-3218 (86.8) |
| SAM0014 | Unit 1, HP 1 | Layer D | 2730±15 | 175113 | 2790-2831 (85.5) | 2780-2856 (100) | Local Wood (crowberry, Empetrum nigrum) |
| 2837-2844 (14.5) |
| SAM0014 | Unit 1, HP 1 | Layer D | 2910±15 | 183746 | 3005-3068 (100.0) | 2970-3079 (89.8) | *Hemilepidotus* |
| 3093-3110 (4.9) |
| 3122-3141 (5.2) |
| SAM0014 | Unit 1, HP 1 | Layer E | 2375±20 | 167646 | 2348-2379 (74.9) | 2346-2443 (96.2) | Local Wood (crowberry, Empetrum nigrum) |
| 2394-2404 (11.0) | 2446-2458 (3.8) |
| 2409-2458 (14.1) |
| SAM0014 | Unit 1, HP 1 | Layer E | 2385±15 | 183747 | 2351-23800 (66.6) | 2349-2442 (96.7) | Branta |
| 2393-2404 (14.3) | 2448-2457 (3.3) |
| 2407-2422 (19.1) |
| SAM0014 | Unit 2, HP 17 | Level 4 | 450±20 | 147356 | 502-515 (100) | 493-526 (100) | wood (unidentified) |
| SAM0014 | Unit 2, HP 17 | Level 5 | 1835±20 | 147355 | 1737-1763 (37.4) | 1715-1821 (100) | wood (unidentified) |
| 1772-1815 (62.6) |
| SAM0014 | West Ravine, Main Section | Stratum 10, 35 cm bd | 2175±20 | 153674 | 2143-2159 (23.8) | 2119-2184 (37.5) | wood (unidentified) |
| 2173-2176 (1.9) | 2196-2206 (1.4) |
| 2249-2300 (74.4) | 2232-2305 (61.1) |
| SAM0014 | West Ravine, Main Section | Stratum 17, 68 cm bd | 2000± 110 | 153675 | 1827-1850 (6.9) | 1705-2184 (94.6) | wood (unidentified) |
| 1860-2070 (82.4) | 2196-2205 (0.4) |
| 2077-2113 (10.7) | 2232-2306 (5.0) |
| SAM0014 | West Ravine, Main Section | Stratum 20, 78 cm bd | 2250±20 | 153676 | 2184-2197 (15.0) | 2159-2250 (63.7) | wood (unidentified) |
| 2203-2233 (44.3) | 2300-2339 (36.3) |
| 2306-2329 (40.7) |
| SAM0014 | West Ravine, Main Section | Stratum 26, 132 cm bd | 2905±20 | 153677 | 2998-3070 (100) | 2963-3079 (89.6) | wood (unidentified) |
| 3093-3112 (5.2) |
| 3121-3141 (5.2) |
| SAM0014 | West Ravine, North Section | Bottom, 193 cmbd. | 3480±20 | 153673 | 3702-3730 (33.1) | 3694-3830 (100) | wood (unidentified) |
| 3746-3768 (24.8) |
| 3791-3825 (42.1) |
| AMK0003 | Unit 1 | Level 4 | 130±25 | 147362 | 14-36 (16.9) | 10-44 (15.8) | wood (unidentified) |
| 68-118 (40.4) | 57-150 (46.4) |
| 131-146 (11.7) | 174-178 (0.8) |
| 190-191 (1.1) | 184-273 (37.0) |
| 244-268 (16.7) |
| AMK0003 | Unit 2 | Level 3 | 120±25 | 147363 | 23-38 (11.5) | 12-48 (15.2) | wood (unidentified) |
| 64-118 (47.2) | 54-149 (52.3) |
| 124-141 (14.2) | 187-206 (3.6) |
| 220-232 (10.0) | 211-269 (28.9) |
| 243-264 (17.1) |
| AMK0003 | Unit 2 | Layer 3, Level 2 | 190±15 | 175344 | 0-11 (26.3) | 0-14 (20.0) | Goose |
| 150-155 (11.2) | 146-189 (46.1) |
| 166-186 (34.8\_ | 193-213 (11.1) |
| 271-284 (27.7) | 268-287 (22.8) |
| AMK0003 | Unit 2 | Layer 3, Level 4 | 155±15 | 175345 | 10-23 (20.2) | 4-32 (20.6) | Goose |
| 142-150 (12.9) | 84-88 (0.6) |
| 174-177 (2.3) | 92-97 (0.8) |
| 185-219 (53.1) | 108-111 (0.5) |
| 264-272 (11.5) | 137-153 (11.9) |
| 169-224 (49.3) |
| 256-281 (16.4) |
| AMK0003 | Unit 2 | Layer 3, Level 6 | 150±15 | 175346 | 11-25 (21.6) | 6-33 (21.1) | Goose |
| 140-149 (14.2) | 74-78 (0.7) |
| 186-271 (48.9) | 81-100 (4.4) |
| 260-271 (15.3) | 106-114 (1.8) |
| 136-152 (12.0) |
| 170-224 (43.3) |
| 255-281 (16.6) |
| AMK0003 | Unit 3 | Layer 4 | 1045±20 | 153681 | 934-959 (100) | 927-976 (100) | wood (unidentified) |
| AMK0003 | Unit 3 | Layer 4 | 1000±20 | 167647 | 915-937 (96.9) | 805-806 (0.4) | *Local Wood (crowberry, Empetrum nigrum)* |
| 949-951 (3.1) | 831-850 (6.5) |
| 906-961 (93.2) |
| AMK0003 | Unit 3 | Layer 9 | 1805±15 | 183603 | 1706-1740 (65.6) | 1699-1816 (100.0) | wood (unidentified) |
| 1776-1781 (28.5) |
| 1799-1805 (5.9) |
| AMK0003 | Unit 3 | Layer 15 | 1870±20 | 167648 | 1742-1754] (11.2) | 1735-1871 (100.0) | *Local Wood (crowberry, Empetrum nigrum)* |
| 1784-1793 (7.6) |
| 1810-1867 (81.2) |
| AMK0003 | Unit 3 | Layer 17, 105-110 cm bs | 1925±20 | 153680 | 1830-1845 (25.8) | 1823-1901 (94.0) | wood (unidentified) |
| 1863-1894 (74.2) | 1910-1923 (6.0) |
| AMK0003 | Unit 3 | Layer 21, 125-130 cm bs | 2990±20 | 153679 | 3084-3088 (5.2) | 3077-3095 (9.0) | wood (unidentified) |
| 3145-3151 (6.0) | 3106-3228 (91.0) |
| 3156-3211 (88.8) |
| AMK0003 | Unit 3 | Layer 21, 125-130 cm bs | 3430±20 | 167649 | 3641-3671 (61.5) | 3614-3624 (1.5) | *Local Wood (crowberry, Empetrum nigrum)* |
| 3678-3699 (38.5) | 3629-3723 (93.4) |
| 3795-3817 (5.1) |
| AMK0003 | Unit 4 | Level 10 | 1905±20 | 167641 | 1826-1852 (62.3) | 1818-1894 (100) | wood (unidentified) |
| 1858-1875 (37.7) |  |
| AMK0003 | Unit 4 | Level 10 | 2760±15 | 175340 | 2801-2821 (28.7) | 2791-2883 (97.6) | *Hemilepidotus* sp. (Irish lord fish) |
| 2843-2872 (71.3) | 2911-2918 (2.4) |
| AMK0003 | Unit 4 | Level 13 | 1925±20 | 167642 | 1830-1845 (5.8) | 1823-1901 (94.0) | wood (unidentified) |
| 1863-1894 (74.2) | 1910-1923 (6.0) |
| AMK0003 | Unit 4 | Level 13 | 2710±15 | 175341 | 2775-2800 (57.8) | 2768-2848 (100) | *Hemilepidotus* sp. (Irish lord fish) |
| 2820-2843 (42.2) |
| AMK0003 | Unit 4 | Level 14 | 2165±15 | 175112 | 2133-22155 (44.7) | 2118-2161 (43.3) | Local Wood (crowberry, Empetraceae/Vacciniaceae) |
| 2269-2296 (55.3) | 2169-2178 (2.3) |
| 2245-2301 (54.4) |
| AMK0003 | Unit 4 | Level 15 | 2620±20 | 175111 | 2745-2755 (100) | 2739-2765 (100) | Local Wood (crowberry, *Empetraceae/Vacciniaceae* |
| AMK0003 | Unit 4 | Level 16 | 2760±15 | 175110 | 2801-2821 (28.7) | 2781-2883 (97.6) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 2843-2872 (71.3) | 2811-2918 (2.4) |
| AMK0003 | Unit 4 | Level 16 | 2865±15 | 183751 | 2953-3001 (100.0) | 2929-3058 (100.0) | *Hemilepidotus* sp. (Irish lord fish) |
| AMK0003 | Unit 4 | Level 17 | 2215±20 | 167643 | 2158-2208 (54.3) | 2153-2277 (85.9) | wood (unidentified) |
| 2225-2258 (35.7) | 2287-2313 (14.1) |
| 2299-2307 (9.9) |
| AMK0003 | Unit 4 | Level 17 | 1245±15 | 183750 | 1177-1186 (20.0) | 1091-1108 (2.3) | *Hemilepidotus sp. (Irish lord fish)* |
| 1205-1239 (80.0) | 1128-1134 (0.7) |
| 1147-1158 (1.6) |
| 1173-1265 (95.4) |
| AMK0003 | Unit 4 | Level 19 | 2275±15 | 175118 | 2315-2338 (100) | 2187-2192 (0.9) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 2204-2231 (13.0) |
| 2306-2346 (86.2) |
| AMK0003 | Unit 4 | Level 20 | 2245±15 | 175117 | 2184-2197 (18.6) | 2160-2172 (3.6) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 2203-2233 (49.4) | 2176-2247 (65.5) |
| 2306-2323 (32.0) | 2300-2334 (30.9) |
| AMK0003 | Unit 4 | Level 32 | 3455±15 | 175116 | 3649-3660 (16.5) | 3643-3669 (17.7) | Local Wood (crowberry, *Empetraceae/Vacciniaceae)* |
| 3690-3722 (62.3) | 3681-3730 (50.8) |
| 3798-3814 (21.3) | 3746-3770 (8.0) |
| 3790-3825 (23.5) |
| AMK0003 | Unit 4 | Level 33 | 3430±15 | 175115 | 3642-3668 (64.2) | 3636-3719 (99.3) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 3681-3697 (35.8) | 3803-3808 (0.7) |
| AMK0003 | Unit 5 | Level 2 | 325±20 | 167637 | 315-332 (20.3) | 309-338 (20.5) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 355- 410 (64.8) | 348-434 (79.5) |
| 420-434 (14.9) |
| AMK0003 | Unit 5 | Level 6 | 370±20 | 167638 | 334-350 (27.0) | 321-377 (34.8) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*)) |
| 437-487 (73.0) | 428-499 (65.2) |
| AMK0003 | Unit 5 | Level 6 | 1235+-15 | 175343 | 1097-1105 (5.3) | 1081-1160 (27.8) | *Hemilepidotus* sp. (Irish lord fish) |
| 1149-1157 (5.6) | 1172-1187 (19.0) |
| 1173-1185 (24.8) | 1203-1258 (53.2) |
| 1206-1238 (64.3) |
| AMK0003 | Unit 5 | Level 10 | 355±15 | 167639 | 331-357 (41.3) | 319-382 (46.8) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 430-470 (58.7) | 386-391 (1.8) |
| 426-484 (51.4) |
| AMK0003 | Unit 5 | Level 10 | 1210±15 | 175342 | 1086-1111 (36.2) | 1068=1181 (99.5) | *Hemilepidotus* sp. (Irish lord fish) |
| 1123-1160 (52.9) | 1215-1217 (0.5) |
| 1172-1178 (10.9) |
| AMK0003 | Unit 5 | Level 16 | 335±15 | 167640 | 318-334 (21.5) | 315-343 (20.5) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 349-394 (58.0) | 346-412 (49.8) |
| 425-438 (17.5) | 418-464 (29.6) |
| 448-451 (3.0) |
| SAM0047 | Shovel Test 1 | 50 cm bs | 930±20 | 147357 | 797-833 (46.3) | 794-914 (100) | wood (unidentified) |
| 844-874 (37.6) |
| 895-908 (16.1) |
| SAM0016 (CG-04) | Shovel Test 2 | 20 cm bs | 275±20 | 147361 | 296-316 (70.9) | 286-324 (59.4) | wood (unidentified) |
| 407-421 (29.1) | 375-428 (40.6) |
| SAM0016 | Shovel Test 2 | 30-40 cm bs | 715±25 | 147360 | 662-679 (100) | 572-579 (2.3) | wood (unidentified) |
| 652-690 (97.7) |
| SAM0016 | Shovel Test 2 | 40 cm bs | 925±20 | 147359 | 796-804 (10.5) | 792-912 (100) | wood (unidentified) |
| 808-830 (29.6) |
| 855-905 (60.0) |
| SAM0016 | House Pit 30 | 66 cm bs | 3150±20 | 147358 | 3359-3391 (100) | 3275-3282 (1.2) | wood (unidentified) |
| 3342-3409 (91.2) |
| 3424-3444 (7.6) |
| SAM0016 | Shovel Test 3 | 26-30 cm | 615±20 | 153678 | 557-568 (18.9) | 552-613 (61.2) | wood (unidentified) |
| 583-604 (40.1) | 618-653 (38.8) |
| 627-648 (41.0) |
| SAM0017 | Feature X | 95-100 cm | 3230±20 | 167650 | 3404-3428 (46.1) | 3338-3481 (98.3) | Local Wood (crowberry, *Empetraceae/Vacciniaceae*) |
| 3443-3467 (53.9) | 3537-3545 (1.7) |
| AMK0008 | ST 1 | 0-20cm | 335±15 | 183604 | 318-334 (21.5) | 315-343 (20.5) | wood (unidentified) |
| 349-393 (58.0) | 346-412 (49.8) |
| 425-438 (17.5) | 418-464 (29.6) |
| 448-451 (3.0) |
| AMK0008 | ST 2 | 40 cm | 270±15 | 183605 | 296-310 (100.0) | 289-316 (85.4) | wood (unidentified) |
| 399-422 (14.6) |
| AMK0009 | #1 OBSE | A242 | 605±15 | 183606 | 556-564 (19.3) | 550-568 (20.6) | fabric |
| 589-607 (40.7) | 583-648 (79.4) |
| 624-641 (40.0) |
| AMK0009 | #2 OBSW | A172 | 440±15 | 183607 | 501-511 (100.0) | 493-518 (100.0) | matting |
| AMK0009 | #3 IFSE Bundle S135 | A79 | 75±15 | 183608 | 38-63 (74.3) | 33-73 (62.0) | fabric |
| 118-123 (7.7) | 99-105 (1.1) |
| 232-242 (17.9) | 114-136 (14.9) |
| 225-253 (22.0) |
| AMK0009 | #4 3GSW/3HSE-2 |  | 370±15 | 183609 | 334-349 (30.2) | 330-359 (28.6) | fibers |
| 439-444 (7.0) | 367-373 (1.0) |
| 453-485 (62.8) | 429-498 (70.4) |
| AMK0009 | #4a 31NE | A034 | 170±15 | 183610 | 7-14 (9.9) | 0-23 (18.4) | Assoc w/ S050 |
| 146-151 (8.0) | 142-154 (9.7) |
| 171-189 (29.5) | 168-219 (54.8) |
| 193-213 (33.2) | 265-283 (17.1) |
| 268-280 (19.5) |
| AMK0009 | #5 | A070b | 335±15 | 183611 | 318-334 (21.5) | 315-343 (20.5) | matting under S92 |
| 349-393 (58.0) | 346-312 (49.8) |
| 425-438 (17.5) | 418-464 (29.6) |
| 448-451 (3.0) |
| AMK0009 | #6 OBSE | A122 | 160±15 | 183612 | 10-21 (18.5) | 3-30 (19.2) | fibers |
| 143-150 (10.7) | 139-153 (11.2) |
| 174-178 (6.9) | 169-222 (53.1) |
| 184-217 (53.5) | 259-282 (16.5) |
| 266-273 (10.4) |
| AMK0009 | #7 | A176 | -2890 ±15" | 183613 | Sample AMK-009 A176 contains excess 14C, probably from mid 20th century atmospheric thermonuclear weapons tests. | | fine matting 19mgC |