Figure 5: Select villages on the Dundas Islands. a.) GcTq-5, a large village with linear house rows, largest houses in the front-center, and several offset structural depressions at the periphery of the site. b.) GcTr-8, a large village with a curved house row, the largest house set at the back center of the site, and several offset structural depressions at the periphery of the village. c.) GdTq-3, a small village with a set of houses on a lower post-6100 cal. BP terrace and up to four structural depressions on a 12.5 m upper terrace. The occupation of the upper terrace dates between 7000 and 5000 cal. BP, when relative sea-level was higher. Note that contour elevations on all maps are relative to the barnacle line; elevations above sea level are 1.5 m higher. Maps created by Sue Formosa.



Figure 6: Calibrated radiocarbon dates for the Dundas Islands group sorted by site and field sample against the Dundas Islands relative sea-level curve and Ames and Maschner’s North Coast Culture Sequence (1999). Bars indicate 2-sigma probability calibrated ranges as per Table 4. Dotted lines between date ranges indicate potential occupational continuity between basal and terminal dates in percussion core tests or auger tests.



1. Shell-bearing component on lower terrace.

2. Shell-bearing component on 12.5 m ASL terrace.

3. Cultural deposit below shell-bearing component on 12.5 m ASL terrace.

4. Hearth from structure on upper terrace.

5. More recent date from Hearth I. Directly associated with other consistently older dates. Rejected by excavators as a lab error.

6. Dates for Hearth I and a post hole in a structural depression on upper terrace.

7. Samples associated with an old component buried beneath the larger later village occupation.

8. Disturbed, stratigraphically reversed sample taken from the northern edge of the site.

9. Date from hearth excavated in house structure in the back row.

10. North Coast Culture Sequence from Ames and Maschner (1999).

Figure 7: Sum probability plot of Dundas radiocarbon dates showing general demographic trends through time. Model creates with OxCal v.4.2.3 (Bronk Ramsey 2013).



##### Table 1. Characteristics of villages on the Dundas Islands group.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Area (m2)** | **House Rows1** | **House Depressions1** | **Offset houses** | **Row Shape** | **House Size and Variation** | **Location of Largest Houses** | **Possible village type** |
| GcTq-21 | 2140 | 1 | 6 | N | Straight | All small | n/a | Small village, straight house row |
| GcTq-20 | 3020 | 2 | 6 | N | Straight | All small | n/a | Small village, straight house rows |
| GcTr-26 | 3080 | 2 | 8 | N | Straight | All small | n/a | Small village, straight house rows |
| GcTr-29 | 3250 | 2 | 5 | N | Straight | All small | n/a | Small village, straight house rows |
| GcTq-4 | 3480 | 2-3 | 8-13 | Y | Straight | All small | n/a | Small village, straight house rows |
| GdTq-3 | 3750 | 2-3 | 8-10 | Y | Straight | All small | n/a | Small village, straight house rows |
| GcTq-11 | 3920 | 1 | 6 | N | Curved | All small | n/a | Small village, curved house row |
| GcTq-6 | 6050 | 3 | 17 | n/a2 | Straight | Small-large | n/a2 | Large village, straight house rows |
| GdTq-1 | 6690 | 3 | 21-24 | Y | Straight | Small-large | Center front | Large village, straight house rows |
| GcTq-5 | 8250 | 2 | 20-25 | Y | Straight | Small-large | Center front | Large village, straight house rows |
| GcTq-1 | 9810 | 2 | 20 | Y | Straight | Small-large | Center back | Large village, straight house rows |
| GcTr-5 | 9840 | 2 | 37 | Y | Curved | Small-large | Center back | Large village, curved house rows |
| GcTr-8 | 10460 | 1-3 | 20-22 | Y | Curved | Small-large | Center back | Large village, curved house rows |
| GcTq-7 | 11360 | 2 | 14 | Y | Straight | All large | n/a3 | Large village, straight house rows |
| GcTr-10 | 18310 | 3-7 | 30-50 | Y | Straight | Small-large | Unclear | Large village, straight house rows |

1 Ranges in house rows and numbers of houses offer a minimum and maximum where some depressions or rows are ambiguous.

2 Insufficient field information to know whether or not there are offset houses at GcTq-6 and to know the location of the largest houses.

3 Insufficient field information to know where the location of the largest houses are at GcTq-7.

Table 2: All Dundas Islands and select Stephens Islands Radiocarbon Dates. All dates were calibrated using OxCal 4.2.3 (Bronk Ramsey 2013). All terrestrial dates were calibrated using IntCal13 curve and all marine dates were calibrated using Marine13 curve (Reimer et al. 2013) and using Delta-R of 288±69 (Ames and Martindale 2014).

|  |
| --- |
| **Dundas Islands Sites** |
| **Site** | **Field Sample from which C14 Sample was Taken1** | **Context (depth/position; landform elevation; position on site)2** | **Material** | **Conventional Age and Error** | **Cal BP Median** | **Cal BP range (2-sigma)** | **Laboratory Number** |
| GcTr-63 | Excavation | B; RT 12.5 m ASL | Charcoal | 9690 +/- 30 | 11148 | 11204-10885 | UCIAMS 28008 |
| GcTr-63 | Excavation | M; RT 12.5 m ASL | Charcoal | 6800 +/- 60 | 7642 | 7784-7566 | TO-13292 |
| GcTr-63 | Excavation | M; RT 12.5 m ASL | Whale bone | 7300 +/- 30 | 7504 | 7644-7380 | UCIAMS 31730 |
| GcTr-63 | Excavation | M; RT 12.5 m ASL | Charcoal | 6940 +/- 20 | 7762 | 7829-7698 | UCIAMS 30930 |
| GcTr-63 | Excavation | M; RT 12.5 m ASL | Charcoal | 6490 +/- 20 | 7421 | 7440-7326 | UCIAMS 30931 |
| GcTr-63 | Excavation | T; RT 12.5 m ASL | Charcoal | 6185 +/- 20 | 7079 | 7165-7006 | UCIAMS 30932 |
| GcTr-63 | CT 2005-DM4 | B; RT 12.5 m ASL | Charcoal | 6925 +/- 50 | 7756 | 7920-7667 | UCIAMS 21984 |
| GcTr-63 | CT 2005-DM4 | B; RT 12.5 m ASL | Marine shell | 7510 +/- 20 | 7688 | 7841-7556 | UCIAMS 21881 |
| GcTr-63 | AT 2006-73 | RT 12.5 m ASL | Marine shell | 7005 +/- 44 | 7246 | 7413-7057 | Poz 30563 |
| GcTr-63 | AT 2006-73 | RT 12.5 m ASL | Marine shell | 6900 +/- 43 | 7130 | 7306-6928 | Poz 30562 |
| GcTr-63 | CT 2005-DM3 | B; RT 6.5 m ASL | Marine shell | 4200 +/- 15 | 3892 | 4087-3685 | UCIAMS 21882 |
| GcTr-63 | CT 2005-DM3 | B; RT 6.5 m ASL | Charcoal | 3645 +/- 25 | 3957 | 4081-3889 | UCIAMS 21985 |
| GcTr-63 | CT 2005-DM3 | T; RT 6.5 m ASL | Marine shell | 3145 +/- 20 | 2604 | 2754-2380 | UCIAMS 21883 |
| GcTq-23 | Excavation | 40-50 cm DBS; RT 13.5 m ASL | Charcoal | 6930 +/- 20 | 7751 | 7823-7689 | UCIAMS 28009 |
| GcTr-33 | CT 2005-25 | B; RT 9 m ASL | Marine shell | 4440 +/- 50 | 4222 | 4442-3965 | Beta 215176 |
| GcTr-33 | CT 2005-25 | T; RT 9 m ASL | Marine shell | 3460 +/- 40 | 2970 | 3175-2765 | Beta 215177 |
| GcTr-33 | CT 2005-DM1 | RT 6.75 m ASL | Seeds | 1850 +/- 35 | 1784 | 1872-1710 | UCIAMS 21987 |
| GcTr-43 | Excavation | 60-70 cm DBS; RT 9.5 m ASL | Charcoal | 2530 +/- 15 | 2702 | 2742-2505 | UCIAMS 28010 |
| GcTr-73 | CT 2005-DM5 | M; RT 18.5 m ASL | Marine shell | 1395 +/- 15 | 667 | 796-530 | UCIAMS 21880 |
| GcTr-73 | CT 2005-DM5 | M; RT 18.5 m ASL | Charcoal | 640 +/- 60 | 606 | 680-537 | UCIAMS 21983 |
| GcTq-4 | CT 2005-033 | B, SI; RT 12.5 m ASL | Marine shell | 5290 +/- 40 | 5356 | 5562-5123 | Beta 215179 |
| GcTq-4 | CT 2005-033 | T, SI; RT 12.5 m ASL | Marine shell | 6830 +/- 70 | 7050 | 7261-6802 | Beta 215178 |
| GcTq-4 | House 1 Excavation | 107-117 cm DBS; RT 12.5 m ASL | Charcoal | 3650 +/- 50 | 3973 | 4141-3843 | TO-13309 |
| GdTq-3 | AT 2006-89 | RT 13 m ASL | Marine shell | 6600 +/- 50 | 6775 | 6989-6558 | Poz 27700 |
| GdTq-3 | AT 2006-89 | M; RT 13 m ASL | Marine shell | 6540 +/- 41 | 6689 | 6899-6494 | Poz 30561 |
| GdTq-3 | AT 2006-89 | M; RT 13 m ASL | Marine shell | 6435 +/- 42 | 6578 | 6772-6391 | Poz 30560 |
| GdTq-3 | AT 2006-89 | M; RT 13 m ASL | Marine shell | 5821 +/- 38 | 5920 | 6140-5720 | Poz 30559 |
| GdTq-3 | AT 2006-89 | T; RT 13 m ASL | Marine shell | 5537 +/- 38 | 5614 | 5825-5445 | Poz 25879 |
| GdTq-3 | CT 2005-39 | B; RT 13 m ASL | Marine shell | 6890 +/- 50 | 7117 | 7303-6907 | Beta 215180 |
| GdTq-3 | CT 2005-39 | T; RT 13 m ASL | Marine shell | 5230 +/- 60 | 5269 | 5505-4978 | Beta 215183 |
| GdTq-3 | House 1 Excavation | 113 cm DBS; RT 13 m ASL | Marine shell | 5990 +/- 29 | 6106 | 6265-5934 | D-AMS 008141 |
| GdTq-3 | House 1 Excavation | 155 cm DBS; RT 13 m ASL | Charcoal | 5928 +/- 30 | 6749 | 6845-6670 | D-AMS 007908 |
| GdTq-3 | House 1 Excavation | RT 13 m ASL | Marine shell | 6474 +/- 29 | 6623 | 6804-6432 | D-AMS 008142 |
| GdTq-3 | House 1 Excavation | RT 13 m ASL | Charcoal | 2112 +/- 24 | 2083 | 2148-2004 | D-AMS 007907 |
| GdTq-1 | CT 2006-132 | B | Marine shell | 6190 +/- 70 | 6323 | 6555-6102 | TO 13593 |
| GdTq-1 | CT 2006-132 | T | Marine shell | 5140 +/- 70 | 5141 | 5400-4865 | TO 13594 |
| GdTq-1 | CT 2005-05 | B | Marine shell | 4640 +/- 70 | 4499 | 4790-4235 | TO 13595 |
| GdTq-1 | CT 2005-05 | T | Marine shell | 4160 +/- 70 | 3840 | 4112-3575 | TO 13596 |
| GdTq-1 | AT 2005-07 | SI; S-C BR | Marine shell | 2555 +/- 35 | 1876 | 2083-1687 | Poz 33584 |
| GdTq-1 | AT 2005-07 | M, SI; S-C BR | Marine shell | 2840 +/- 35 | 2217 | 2401-2000 | Poz 33579 |
| GdTq-1 | AT 2005-07 | S-C BR | Marine shell | 2475 +/- 35 | 1779 | 1968-1583 | Poz 33566 |
| GdTq-1 | CT 2005-08 | B | Marine shell | 4780 +/- 40 | 4676 | 4845-4447 | Beta 215174 |
| GdTq-1 | CT 2005-08 | T | Marine shell | 2440 +/- 50 | 1739 | 1937-1533 | Beta 215181 |
| GcTr-5 | CT 2005-14 | B; C BR | Marine shell | 3070 +/- 40 | 2522 | 2710-2329 | Beta 215175 |
| GcTr-5 | CT 2005-14 | T; C BR | Marine shell | 2390 +/- 40 | 1682 | 1877-1500 | Beta 215182 |
| GcTr-5 | CT 2006-107 | B; C | Marine shell | 3000 +/- 40 | 2437 | 2691-2245 | TO 13601 |
| GcTr-5 | CT 2006-107 | T; C | Marine shell | 2140 +/- 40 | 1404 | 1575-1254 | TO 13602 |
| GcTr-8 | CT 2007-203 | M; S-C | Marine shell | 6192 +/- 36 | 6323 | 6496-6166 | XA 5804 |
| GcTr-8 | CT 2007-203 | M; S-C | Marine shell | 6306 +/- 31 | 6437 | 6616-6281 | XA 5803 |
| GcTr-8 | CT 2007-208 | B; E EDGE | Marine shell | 3783 +/- 33 | 3377 | 3563-3179 | XA 5806 |
| GcTr-8 | CT 2007-208 | T; E EDGE | Marine shell | 3099 +/- 28 | 2553 | 2719-2350 | XA 5805 |
| GcTr-8 | CT 2007-175 | B; NW BR | Marine shell | 2970 +/- 70 | 2401 | 2680-2145 | TO 13591 |
| GcTr-8 | CT 2007-175 | T; NW BR | Marine shell | 2960 +/- 70 | 2387 | 2675-2135 | TO 13592 |
| GcTr-8 | CT 2007-188 | B; C F | Marine shell | 3984 +/- 38 | 3614 | 3825-3417 | XA 5802 |
| GcTr-8 | CT 2007-188 | T; C F | Marine shell | 2875 +/- 31 | 2255 | 2466-2051 | XA 5801 |
| GcTr-8 | CT 2006-106 | B; SE BR | Marine shell | 7000 +/- 60 | 7239 | 7415-7020 | TO-13289 |
| GcTr-8 | CT 2006-106 | T; SE BR | Marine shell | 2510 +/- 50 | 1821 | 2034-1601 | TO 13288 |
| GcTq-5 | CT 2007-238 | B, SI; NW EDGE | Marine shell | 4620 +/- 50 | 4470 | 4770-4227 | TO 13599 |
| GcTq-5 | CT 2007-238 | T, SI; NW EDGE | Marine shell | 8829 +/- 60 | 9178 | 9411-8973 | TO 13600 |
| GcTq-5 | AT 2006-45 | B; N BR | Marine shell | 3482 +/- 32 | 2997 | 3200-2792 | Poz 25882 |
| GcTq-5 | AT 2006-45 | M; N BR | Marine shell | 3230 +/- 35 | 2714 | 2892-2472 | Poz 27699 |
| GcTq-5 | AT 2006-45 | M; N BR | Marine shell | 3185 +/- 35 | 2652 | 2834-2417 | Poz 27697 |
| GcTq-5 | AT 2006-45 | M; N BR | Marine shell | 3135 +/- 35 | 2589 | 2748-2362 | Poz 27696 |
| GcTq-5 | AT 2006-45 | T; N BR | Marine shell | 2764 +/- 32 | 2133 | 2314-1940 | Poz 25881 |
| GcTq-5 | CT 2006-44 | B; C BR | Marine shell | 3170 +/- 50 | 2627 | 2816-2373 | TO 13291 |
| GcTq-5 | CT 2006-44 | T; C BR | Marine shell | 2780 +/- 50 | 2151 | 2336-1933 | TO 13290 |
| GcTq-5 | House 20 Excavation | 170 cm DBS | Charcoal | 1460 +/- 50 | 1355 | 1518-1288 | TO 13310 |
| GcTq-5 | CT 2006-50 | B, C F | Marine shell | 2200 +/- 60 | 1464 | 1677-1284 | TO 13597 |
| GcTq-5 | CT 2006-50 | T, C F | Marine shell | 2180 +/- 60 | 1445 | 1657-1269 | TO 13598 |
| GcTq-6 | AT 2006-67 | B | Marine shell | 2356 +/- 31 | 1643 | 1841-1462 | Poz 25878 |
| GcTq-6 | AT 2006-67 | M | Marine shell | 2420 +/- 35 | 1717 | 1894-1529 | Poz 27705 |
| GcTq-6 | AT 2006-67 | M | Marine shell | 2370 +/- 30 | 1659 | 1854-1486 | Poz 27704 |
| GcTq-6 | AT 2006-67 | T | Marine shell | 2314 +/- 33 | 1595 | 1790-1401 | Poz 25877 |
| GcTq-14 | AT 2000-5 | B; W-C BR | Marine shell | 3210 +/- 60 | 2682 | 2894-2402 | Beta 124781 |
| GcTq-14 | ST 2000-2 | T; C BR | Marine shell | 3280 +/- 60 | 2772 | 2994-2500 | Beta 123472 |
| GcTq-14 | ST 2000-4 | T; W BR | Marine shell | 2960 +/- 70 | 2387 | 2675-2135 | Beta 123474 |
| GcTq-14 | ST 2000-1 | T; E BR | Marine shell | 2440 +/- 70 | 1739 | 1977-1514 | Beta 123471 |
| GcTq-14 | ST 2000-3 | T; C BR | Marine shell | 2400 +/- 60 | 1694 | 1918-1481 | Beta 123473 |
| **Stephens Islands Sites** |
| **Site** | **Field Sample from which C14 Sample was Taken** | **Context (depth/position; landform elevation; position on site)** | **Material** | **Conventional Age** | **Cal BP Median** | **Cal BP range (2-sigma)** | **Laboratory Number** |
| T416-1 | CT 2014-011 | B; RT ~11.5 m ASL | Shell | 6951 +/- 46 | 7188 | 7371-6982 | D-AMS 007887 |
| T416-1 | CT 2014-011 | B; RT ~11.5 m ASL | Charcoal | 6211 +/- 28 | 7096 | 7242-7008 | D-AMS 007904 |
| T416-1 | CT 2014-011 | T; TR ~11.5 m ASL | Charcoal | 4504 +/- 30 | 5164 | 5299-5046 | D-AMS 007903 |
| GaTp-10 | CT 2014-004 | B; RT ~11.5 m ASL | Shell | 9133 +/- 30 | 9503 | 9695-9335 | D-AMS 007883 |
| GaTp-10 | CT 2014-004 | T; TR ~11.5 m ASL | Shell | 6275 +/- 26 | 6403 | 6589-6261 | D-AMS 007882 |
| GaTp-10 | CT 2014-004 | T; TR ~11.5 m ASL | Charcoal | 5662 +/- 28 | 6442 | 6500-6352 | D-AMS 007900 |

1. AT = auger test, CT = core test, ST = shovel test.

2. Context code key: Depth/positions: B = basal date, M = date from somewhere between basal and terminal deposits, T = terminal date, SI = stratigraphically inversion of dates where an older date overlays and more recent lower one. Landform elevations: RT= raised inland terrace; indicates a date taken from a field sample located on a terrace away from the modern shoreline; the ground elevation of the sample is given. Positions on site: a directional guide followed by a position. N = north, E = east, S = south, W = west; N-C = north-central, E-C = east-central, etc. BR = back shell ridge, C = centre of site, F = front of site, EDGE = edge of site.

3. See McLaren (2008) for more information on the contexts of these dates.

4. See Archer (2000) for more information on the contexts of these dates.