**Table S1**: Radiocarbon measurements of sub-annual increments of Scots pine cored from the east and the west side over the years 1953 to 1965. Timing of growth (Year AD), lab ID (TRa-#), number of AMS measurements (n), Δ14C values (‰), measurement error (± ‰), and δ13C values (‰) from IRMS. Discrepancies between the cores that are mentioned in the text and presumed to stem from inaccuracies in the sectioning are marked with an asterisk next to the number of AMS measurements.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cellulose midpoint | West cores | | | | | East core | | | | |
| Year (AD) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) |
|  |  |  |  |  |  |  |  |  |  |  |
| 1953.41 | 12762 | 1 | -17.7 | 1.1 | -25.7 | 13487 | 1 | -17.1 | 2.4 | -25.2 |
| 1953.46 | 12763 | 1 | -20.4 | 1.4 | -24.5 | 13488 | 1 | -19.1 | 3.1 | -26.1 |
| 1953.47 | 12764 | 1 | -18.0 | 1.8 | -24.5 | 13489 | 1 | -19.9 | 2.8 | -25.6 |
| 1953.49 | 12765 | 2 | -21.3 | 2.8 | -24.2 | 13490 | 1 | -17.1 | 2.4 | -24.8 |
| 1953.52 | 12766 | 1 | -14.7 | 1.5 | -24.3 | 13491 | 1 | -24.3 | 2.8 | -24.6 |
| 1953.54 | 12767 | 1 | -11.7 | 1.8 | -24.4 | 13492 | 1 | -21.1 | 2.7 | -24.3 |
| 1953.57 | 12768 | 1 | -12.5 | 1.3 | -24.4 | 13493 | 1 | -15.1 | 2.4 | -24.1 |
| 1953.61 | 12769 | 2 | -8.8 | 3.0 | -24.3 | 13494 | 1 | -19.1 | 2.6 | -24.0 |
| 1954.41 | 12770 | 1 | -9.0 | 1.3 | -26.1 | 13495 | 1 | -18.0 | 2.7 | -24.7 |
| 1954.46 | 12771 | 2 | -14.3 | 2.6 | -26.0 | 13496 | 1 | -14.3 | 2.5 | -24.6 |
| 1954.47 | 12772 | 1 | -8.1 | 1.5 | -25.9 | 13497 | 1 | -8.9 | 2.6 | -24.9 |
| 1954.49 | 12773 | 1 | -9.8 | 1.4 | -25.0 | 13498 | 1 | -12.0 | 2.4 | -24.7 |
| 1954.52 | 12774 | 1 | -4.0 | 1.6 | -24.9 | 13499 | 1 | -13.1 | 2.4 | -24.3 |
| 1954.54 | 12775 | 1 | -2.3 | 1.3 | -25.6 | 13500 | 1 | -4.4 | 2.3 | -24.2 |
| 1954.57 | 12776 | 1 | -1.5 | 1.3 | -25.7 | 13501 | 1 | -6.5 | 2.2 | -24.5 |
| 1954.61 | 12777 | 1 | -1.3 | 1.5 | -25.5 | 13502 | 1 | -5.6 | 2.1 | -24.8 |
| 1955.41 | 12778 | 2 | 9.9 | 2.7 | -26.1 | 13503 | 1 | 4.8 | 2.3 | -25.2 |
| 1955.46 | 12779 | 2 | 13.6 | 2.5 | -25.9 | 13504 | 1 | 9.5 | 2.9 | -24.7 |
| 1955.47 | 12780 | 2 | 13.4 | 2.5 | - | 13505 | 1 | 10.4 | 2.1 | -24.8 |
| 1955.49 | 12781 | 2 | 15.1 | 2.5 | - | 13506 | 1 | 14.5 | 2.2 | -24.9 |
| 1955.52 | 12782 | 2 | 23.0 | 2.9 | -26.2 | 13507 | 1 | 15.4 | 2.8 | -24.9 |
| 1955.54 | 12783 | 2 | 22.5 | 2.6 | -25.4 | 13508 | 1 | 24.2 | 2.5 | -25.0 |
| 1955.57 | 12784 | 2 | 28.3 | 2.3 | -25.4 | 13509 | 1 | 20.3 | 2.2 | -24.5 |
| 1955.61 | 12785 | 2 | 28.1 | 3.2 | -25.6 | 13510 | 1 | 22.8 | 2.5 | -24.1 |
| 1956.41 | 12786 | 1 | 38.3 | 1.6 | -26.2 | 13511 | 1\* | 21.9 | 2.2 | -23.3 |
| 1956.46 | 12787 | 1 | 43.5 | 1.6 | -26.0 | 13512 | 1 | 28.6 | 2.3 | -24.2 |
| 1956.47 | 12788 | 1 | 39.3 | 1.7 | -25.6 | 13513 | 1 | 28.8 | 2.3 | -25.2 |
| 1956.49 | 12789 | 1 | 44.2 | 1.9 | -25.2 | 13514 | 1 | 35.4 | 2.2 | -24.7 |
| 1956.52 | 12790 | 1 | 45.0 | 1.3 | -25.1 | 13515 | 1 | 40.9 | 3.1 | -25.1 |
| 1956.54 | 12791 | 1 | 48.2 | 1.3 | -24.7 | 13516 | 1 | 46.2 | 2.9 | -24.7 |
| 1956.57 | 12792 | 2 | 49.9 | 3.1 | -25.2 | 13517 | 1 | 51.2 | 2.5 | -24.8 |
| 1956.61 | 12793 | 2 | 59.9 | 3.0 | -25.5 | 13518 | 1\* | 46.7 | 2.8 | - |

*Table S1 continued.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cellulose midpoint | West cores | | | | | East core | | | | |
| Year (AD) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) |
|  |  |  |  |  |  |  |  |  |  |  |
| 1957.41 | 13081 | 1 | 78.0 | 2.6 | -25.0 | 13519 | 1\* | 53.2 | 2.3 | -24.8 |
| 1957.46 | 13082 | 1 | 81.8 | 2.6 | -25.1 | 13520 | 1 | 81.3 | 2.3 | -25.7 |
| 1957.47 | 13083 | 1 | 79.9 | 2.5 | -24.8 | 13521 | 1 | 81.4 | 2.5 | -24.9 |
| 1957.49 | 13084 | 1 | 81.3 | 2.6 | -24.6 | 13522 | 1 | 82.1 | 2.4 | -24.6 |
| 1957.52 | 13085 | 1 | 79.2 | 2.7 | -24.3 | 13523 | 1 | 81.5 | 2.4 | -24.7 |
| 1957.54 | 13086 | 1 | 81.4 | 2.6 | -24.3 | 13524 | 1 | 82.3 | 2.2 | -24.1 |
| 1957.57 | 13087 | 1 | 81.6 | 2.7 | -24.3 | 13525 | 1 | 87.1 | 2.2 | -24.4 |
| 1957.61 | 13088 | 1 | 88.9 | 2.6 | -24.7 | 13526 | 1 | 89.2 | 2.2 | -24.4 |
| 1958.41 | 13089 | 1 | 96.6 | 2.7 | -25.5 | 13527 | 1 | 97.0 | 1.9 | -25.2 |
| 1958.46 | 13090 | 1 | 119.0 | 2.7 | -25.6 | 13528 | 1 | 124.0 | 2.2 | -25.2 |
| 1958.47 | 13091 | 1 | 124.0 | 2.6 | -25.8 | 13529 | 1 | 132.6 | 2.0 | -25.0 |
| 1958.49 | 13092 | 1 | 131.9 | 2.9 | -25.2 | 13530 | 1 | 143.4 | 2.3 | -24.7 |
| 1958.52 | 13093 | 1 | 144.2 | 2.7 | -25.5 | 13531 | 1 | 140.4 | 2.3 | -24.7 |
| 1958.54 | 13094 | 1 | 135.1 | 2.9 | -25.7 | 13532 | 1 | 150.3 | 2.4 | -25.3 |
| 1958.57 | 13095 | 1 | 144.9 | 2.7 | -25.7 | 13533 | 1\* | 186.6 | 1.9 | -25.0 |
| 1958.61 | 13096 | 1\* | 180.3 | 2.7 | -25.1 | 13534 | 1\* | 171.8 | 2.4 | -25.1 |
| 1959.41 | 13097 | 1\* | 241.3 | 2.8 | -25.9 | 13535 | 1 | 278.4 | 2.8 | -24.8 |
| 1959.46 | 13098 | 1 | 282.0 | 2.8 | -25.6 | 13536 | 1 | 286.2 | 2.8 | -24.7 |
| 1959.47 | 13099 | 1 | 281.4 | 2.7 | -25.4 | 13537 | 1 | 289.9 | 2.6 | -24.5 |
| 1959.49 | 13100 | 1 | 290.4 | 2.8 | -25.0 | 13538 | 1 | 292.6 | 2.8 | -24.1 |
| 1959.52 | 13101 | 1 | 286.3 | 2.8 | -25.4 | 13539 | 1 | 295.4 | 2.7 | -23.7 |
| 1959.54 | 13102 | 1 | 297.4 | 2.9 | -24.2 | 13540 | 1 | 291.4 | 2.6 | -23.6 |
| 1959.57 | 13103 | 1 | 296.2 | 3.2 | -24.3 | 13541 | 1 | 290.4 | 3.0 | -23.7 |
| 1959.61 | 13104 | 1 | 285.1 | 4.1 | -24.5 | 13542 | 1\* | 256.0 | 2.6 | -24.3 |
| 1960.41 | 13105 | 1\* | 254.7 | 2.3 | -25.5 | 13543 | 1 | 224.3 | 2.8 | -25.0 |
| 1960.46 | 13106 | 1 | 220.4 | 2.9 | -25.8 | 13544 | 1 | 228.2 | 2.7 | -25.4 |
| 1960.47 | 13107 | 1 | 220.3 | 2.7 | -25.8 | 13545 | 1 | 229.4 | 2.6 | -25.0 |
| 1960.49 | 13108 | 1 | 228.0 | 3.5 | -25.8 | 13546 | 1 | 233.7 | 2.6 | -24.7 |
| 1960.52 | 13109 | 1 | 229.9 | 3.1 | -25.7 | 13547 | 1 | 238.3 | 2.5 | -24.4 |
| 1960.54 | 13110 | 1 | 230.0 | 2.6 | -25.1 | 13548 | 1 | 235.0 | 2.8 | -24.1 |
| 1960.57 | 13111 | 1 | 232.7 | 2.7 | -24.7 | 13549 | 1 | 239.6 | 2.7 | -24.2 |
| 1960.61 | 13112 | 1 | 237.5 | 2.3 | -24.7 | 13550 | 1 | 240.7 | 2.5 | -24.4 |

*Table S1 continued.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cellulose midpoint | West cores | | | | | East core | | | | |
| Year (AD) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) |
|  |  |  |  |  |  |  |  |  |  |  |
| 1961.41 | 13113 | 1 | 243.3 | 3.5 | -24.5 | 13551 | 1 | 222.5 | 2.1 | -25.5 |
| 1961.46 | 13114 | 1 | 232.8 | 3.2 | -25.0 | 13552 | 1 | 227.3 | 2.1 | -25.9 |
| 1961.47 | 13115 | 1 | 233.2 | 3.7 | -25.8 | 13553 | 1 | 224.4 | 2.4 | -25.7 |
| 1961.49 | 13116 | 1 | 222.7 | 2.8 | -25.8 | 13554 | 1 | 230.9 | 2.9 | -25.7 |
| 1961.52 | 13117 | 1 | 222.0 | 2.6 | -25.9 | 13555 | 1 | 231.0 | 2.0 | -25.1 |
| 1961.54 | 13118 | 1 | 229.6 | 2.2 | -25.8 | 13556 | 1 | 235.9 | 2.2 | -25.2 |
| 1961.57 | 13119 | 1 | 235.9 | 2.9 | -25.4 | 13557 | 1 | 259.3 | 2.4 | -25.7 |
| 1961.61 | 13120 | 1 | 238.2 | 2.4 | -25.3 | 13558 | 1\* | 336.3 | 2.2 | -26.2 |
| 1962.41 | 13121 | 2\* | 265.3 | 4.1 | -25.9 | 13559 | 1 | 370.1 | 2.6 | -25.5 |
| 1962.46 | 13122 | 2\* | 277.6 | 4.8 | -26.1 | 13560 | 1 | 376.1 | 2.4 | -25.1 |
| 1962.47 | 13123 | 2 | 362.7 | 4.3 | - | 13561 | 1 | 374.3 | 2.4 | -25.0 |
| 1962.49 | 13124 | 2 | 370.3 | 3.7 | - | 13562 | 1 | 414.3 | 2.7 | -25.3 |
| 1962.52 | 13125 | 2 | 376.9 | 4.5 | -26.0 | 13563 | 1 | 411.4 | 2.4 | - |
| 1962.54 | 13126 | 2 | 386.4 | 3.7 | - | 13564 | 1 | 388.1 | 2.5 | -25.1 |
| 1962.57 | 13127 | 2 | 392.4 | 3.5 | -25.5 | 13565 | 1 | 422.1 | 3.0 | -25.3 |
| 1962.61 | 13128 | 2 | 434.5 | 4.0 | -26.0 | 13566 | 1\* | 516.2 | 2.9 | - |
| 1963.41 | 13129 | 2 | 605.5 | 3.9 | - | - | 0 | - | - | - |
| 1963.46 | 13130 | 2 | 661.4 | 4.0 | - | 13568 | 1 | 619.9 | 5.5 | - |
| 1963.47 | 13131 | 1 | 695.4 | 3.0 | - | - | 0 | - | - | - |
| 1963.49 | 13132 | 1 | 709.7 | 3.0 | -24.6 | 13570 | 1 | 709.0 | 4.7 | - |
| 1963.52 | 13133 | 1 | 751.6 | 3.0 | - | 13571 | 1 | 754.4 | 3.3 | -24.3 |
| 1963.54 | 13134 | 1 | 759.6 | 3.0 | - | 13572 | 1 | 811.5 | 3.3 | -24.9 |
| 1963.57 | 13135 | 1 | 815.8 | 5.1 | -24.3 | 13573 | 1 | 836.8 | 4.0 | -24.6 |
| 1963.61 | 13136 | 1 | 831.7 | 5.1 | -24.3 | 13574 | 1 | 869.4 | 5.1 | -25.5 |
| 1964.41 | 13137 | 1 | 884.3 | 3.2 | -25.6 | 13575 | 1 | 885.9 | 4.5 | - |
| 1964.46 | 13138 | 1 | 899.7 | 3.0 | -25.4 | 13576 | 1 | 891.7 | 3.3 | -25.5 |
| 1964.47 | 13139 | 1 | 898.9 | 3.6 | - | 13577 | 1 | 906.1 | 3.2 | -25.2 |
| 1964.49 | 13140 | 1 | 904.4 | 5.5 | -25.5 | 13578 | 1 | 923.7 | 4.2 | -25.4 |
| 1964.52 | 13141 | 1 | 927.8 | 3.0 | -25.6 | 13579 | 1 | 924.8 | 4.8 | -25.2 |
| 1964.54 | 13142 | 1 | 927.5 | 4.4 | -25.1 | 13580 | 1 | 922.8 | 3.3 | -24.8 |
| 1964.57 | 13143 | 1 | 931.7 | 2.6 | -25.1 | 13581 | 1 | 933.7 | 3.3 | -24.6 |
| 1964.61 | 13144 | 1 | 922.6 | 5.2 | -25.0 | 13582 | 1\* | 870.2 | 3.4 | -25.0 |

*Table S1 continued.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Cellulose midpoint | West cores | | | | | East core | | | | |
| Year (AD) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) | TRa # | n | Δ14C (‰) | ± (‰) | δ13C (‰) |
|  |  |  |  |  |  |  |  |  |  |  |
| 1965.41 | 13145 | 2\* | 870.3 | 5.3 | -25.4 | 13583 | 1 | 783.3 | 3.4 | -24.7 |
| 1965.46 | 13146 | 1 | 781.4 | 4.5 | -25.8 | 13584 | 1 | 785.8 | 3.2 | -25.4 |
| 1965.47 | 13147 | 1 | 782.9 | 4.4 | -25.2 | 13585 | 1 | 786.8 | 3.8 | - |
| 1965.49 | 13148 | 1 | 781.9 | 4.6 | -25.2 | 13586 | 1 | 786.5 | 3.3 | -24.6 |
| 1965.52 | 13149 | 1 | 791.2 | 3.2 | -25.1 | 13587 | 1 | 788.9 | 3.9 | - |
| 1965.54 | 13150 | 1 | 792.3 | 3.7 | -24.8 | 13588 | 1 | 787.9 | 3.7 | - |
| 1965.57 | 13151 | 1 | 790.6 | 2.5 | -25.3 | 13589 | 1 | 785.3 | 2.4 | -24.8 |
| 1965.61 | 13152 | 1 | 781.1 | 2.5 | -25.0 | 13590 | 1\* | 756.1 | 2.5 | -24.6 |