**Supplementary Information, File 3**

Radiocarbon dating raw data

| **P5 Catalog Number** | **Lot Number** | **Laboratory** | **Lab ID** | **Conv. 14C-Age** | **Error** | **δ13C** | **Fm** | **Error** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 501 | 114 | iThemba | IT-C-2329 | 9670 | 55 | -26.5 | 0.3001 | 0.0021 |
| 501 | 114 | iThemba | IT-C-2330 | 9567 | 52 | -26.5 | 0.3039 | 0.0020 |
| 501 | 114 | Beta Analytic | BETA-442147 | 9640 | 30 | -25.1 | 0.3012 | 0.0011 |
| 1502 | 107 | iThemba | IT-C-2325 | 7261 | 40 | -27.6 | 0.405 | 0.0020 |
| 1502 | 107 | iThemba | IT-C-2326 | 7349 | 49 | -27.6 | 0.4006 | 0.0025 |
| 1502 | 107 | Beta Analytic | BETA-442148 | 7380 | 30 | -26.7 | 0.399 | 0.0015 |
| 1503 | 108 | iThemba | IT-C-2321 | 9607 | 57 | -29.4 | 0.3024 | 0.0022 |
| 1503 | 108 | iThemba | IT-C-2322 | 9596 | 49 | -29.4 | 0.3028 | 0.0018 |
| 1503 | 108 | Beta Analytic | BETA-442146 | 9520 | 30 | -28.4 | 0.3057 | 0.0011 |
| 1584 | 124 | iThemba | IT-C-2323 | 7514 | 52 | -25.5 | 0.3925 | 0.0026 |
| 1584 | 124 | iThemba | IT-C-2324 | 7556 | 41 | -25.5 | 0.3904 | 0.0020 |
| 1584 | 124 | Beta Analytic | BETA-442149 | 7550 | 30 | -25.1 | 0.3907 | 0.0015 |
| 4944 | 216 | iThemba | IT-C-2383 | 9543 | 47 | -26.2 | 0.3048 | 0.0018 |
| 4945 | 216 | Beta Analytic | BETA-469052 | 9640 | 30 | -24.8 | 0.3012 | 0.0011 |
| 6666 | 220 | Beta Analytic | BETA-469053 | 9550 | 30 | -24 | 0.3046 | 0.0011 |
| 7618 | 216 | iThemba | IT-C-2590 | 9548 | 48 | -26.5 | 0.3047 | 0.0018 |
| 8098 | 221 | iThemba | IT-C-2360 | 9529 | 69 | -24.3 | 0.3054 | 0.0026 |
| 17125 | 287 | Beta Analytic | BETA-461584 | 9680 | 30 | -25.6 | 0.2997 | 0.0011 |
| 17923 | 296 | Beta Analytic | BETA-461583 | 17840 | 50 | -27.7 | 0.1085 | 0.0007 |
| 18638 | 295 | iThemba | IT-C-2542 | 9470 | 43 | -25.2 | 0.3076 | 0.0017 |
| 18702 | 308 | Beta Analytic | BETA-469051 | 18980 | 50 | -29.5 | 0.0942 | 0.0006 |
| 20408 | 344 | Beta Analytic | BETA-461585 | 9540 | 30 | -24.3 | 0.3049 | 0.0011 |
| 20608 | 354 | iThemba | IT-C-2389 | 9561 | 46 | -26.1 | 0.3042 | 0.0017 |
| 21323 | 384 | iThemba | IT-C-2537 | 9499 | 45 | -24.9 | 0.3065 | 0.0017 |
| 22305 | 308 | Beta Analytic | BETA-461582 | 18690 | 60 | -29.1 | 0.0976 | 0.0007 |
| 22339 | 313 | iThemba | IT-C-2351 | 9515 | 51 | -27.6 | 0.3059 | 0.0020 |
| 23501 | 330 | iThemba | IT-C-2319 | 27515 | 261 | -24 | 0.0325 | 0.0011 |
| 23501 | 330 | iThemba | IT-C-2320 | 27339 | 229 | -24 | 0.0333 | 0.0010 |
| 23504 | 331 | Beta Analytic | BETA-461581 | 26330 | 100 | -24.9 | 0.0377 | 0.0005 |
| 26617 | 337 | iThemba | IT-C-2327 | 11632 | 66 | -26.3 | 0.235 | 0.0020 |
| 26617 | 337 | iThemba | IT-C-2328 | 11687 | 63 | -26.3 | 0.2334 | 0.0018 |
| 26617 | 337 | Beta Analytic | BETA-516054 | 11680 | 40 | -24.9 | 0.2336 | 0.0012 |
| 27014 | 393 | iThemba | IT-C-2347 | 9534 | 46 | -25.2 | 0.3052 | 0.0018 |
| 27019 | 393 | iThemba | IT-C-2540 | 9497 | 49 | -24 | 0.3066 | 0.0019 |
| 27605 | 394 | iThemba | IT-C-2535 | 9560 | 43 | -26.2 | 0.3042 | 0.0016 |
| 27694 | 394 | iThemba | IT-C-2559 | 9522 | 45 | -25.6 | 0.3056 | 0.0017 |
| 27699 | 374 | iThemba | IT-C-2379 | 20779 | 144 | -27.5 | 0.0753 | 0.0014 |
| 27699 | 374 | iThemba | IT-C-2570 | 20706 | 121 | -27.5 | 0.076 | 0.0012 |
| 27700 | 374 | iThemba | IT-C-2355 | 21158 | 125 | -24.7 | 0.0718 | 0.0011 |
| 27700 | 374 | iThemba | IT-C-2378 | 21324 | 123 | -24.7 | 0.0703 | 0.0011 |
| 30047 | 426 | iThemba | IT-C-2387 | 9568 | 47 | -28.1 | 0.3039 | 0.0018 |
| 30048 | 426 | iThemba | IT-C-2385 | 9602 | 50 | -26.3 | 0.3026 | 0.0019 |
| 30048 | 426 | iThemba | IT-C-2533 | 9599 | 44 | -26.3 | 0.3027 | 0.0017 |
| 30224 | 420 | iThemba | IT-C-2353 | 14114 | 74 | -25 | 0.1726 | 0.0016 |
| 30224 | 420 | iThemba | IT-C-2564 | 14271 | 65 | -25 | 0.1692 | 0.0014 |
| 30258 | 420 | iThemba | IT-C-2346 | 14277 | 80 | -24.7 | 0.1691 | 0.0017 |
| 30258 | 420 | iThemba | IT-C-2567 | 14190 | 72 | -24.7 | 0.1709 | 0.0015 |
| 30270 | 420 | iThemba | IT-C-2538 | 13596 | 59 | -28.9 | 0.1841 | 0.0014 |
| 30624 | 427 | iThemba | IT-C-2348 | 9596 | 53 | -26.4 | 0.3028 | 0.0020 |
| 30624 | 427 | iThemba | IT-C-2560 | 9599 | 44 | -26.4 | 0.3027 | 0.0017 |
| 30657 | 427 | iThemba | IT-C-2358 | 9560 | 54 | -24.3 | 0.3042 | 0.0020 |
| 31390 | 431 | iThemba | IT-C-2345 | 17101 | 120 | -24 | 0.119 | 0.0018 |
| 31813 | 427 | iThemba | IT-C-2556 | 9639 | 44 | -25.4 | 0.3012 | 0.0016 |
| 31884 | 440 | iThemba | IT-C-2349 | 9691 | 50 | -27.4 | 0.2993 | 0.0019 |
| 31884 | 440 | iThemba | IT-C-2532 | 9644 | 46 | -27.4 | 0.301 | 0.0017 |
| 32294 | 432 | iThemba | IT-C-2388 | 9594 | 51 | -26.1 | 0.3029 | 0.0019 |
| 32294 | 432 | iThemba | IT-C-2561 | 9544 | 50 | -26.1 | 0.3048 | 0.0019 |
| 32455 | 427 | iThemba | IT-C-2356 | 16724 | 95 | -25.6 | 0.1247 | 0.0015 |
| 32455 | 427 | iThemba | IT-C-2562 | 16692 | 78 | -25.6 | 0.1252 | 0.0012 |
| 33025 | 450 | iThemba | IT-C-2373 | 21220 | 127 | -28 | 0.0713 | 0.0011 |
| 33025 | 450 | iThemba | IT-C-2568 | 21277 | 122 | -28 | 0.0707 | 0.0011 |
| 33274 | 438 | iThemba | IT-C-2374 | 9541 | 49 | -27.4 | 0.3049 | 0.0019 |
| 33274 | 438 | iThemba | IT-C-2557 | 9580 | 45 | -27.4 | 0.3034 | 0.0017 |
| 33381 | 432 | iThemba | IT-C-2386 | 9541 | 55 | -30.3 | 0.3049 | 0.0021 |
| 33381 | 432 | iThemba | IT-C-2531 | 9458 | 43 | -30.3 | 0.3081 | 0.0016 |
| 33382 | 432 | iThemba | IT-C-2384 | 9543 | 47 | -29.2 | 0.3048 | 0.0018 |
| 33382 | 432 | iThemba | IT-C-2555 | 9562 | 48 | -29.2 | 0.3041 | 0.0018 |
| 33766 | 449 | iThemba | IT-C-2377 | 9577 | 46 | -27.1 | 0.3035 | 0.0018 |
| 34285 | 460 | iThemba | IT-C-2382 | 11860 | 56 | -24.8 | 0.2285 | 0.0016 |
| 34285 | 460 | iThemba | IT-C-2539 | 11855 | 56 | -24.8 | 0.2286 | 0.0016 |
| 34326 | 446 | iThemba | IT-C-2359 | 23323 | 164 | -24.1 | 0.0548 | 0.0011 |
| 34326 | 446 | iThemba | IT-C-2534 | 23024 | 154 | -24.1 | 0.0569 | 0.0011 |
| 34911 | 456 | iThemba | IT-C-2352 | 13012 | 65 | -25.2 | 0.1979 | 0.0016 |
| 34911 | 456 | iThemba | IT-C-2563 | 13117 | 59 | -25.2 | 0.1954 | 0.0014 |
| 34933 | 458 | iThemba | IT-C-2375 | 20052 | 121 | -26.9 | 0.0824 | 0.0013 |
| 34933 | 458 | iThemba | IT-C-2541 | 20062 | 104 | -26.9 | 0.0823 | 0.0011 |
| 34957 | 458 | iThemba | IT-C-2354 | 20058 | 113 | -25 | 0.0823 | 0.0012 |
| 34957 | 458 | iThemba | IT-C-2380 | 19871 | 117 | -25 | 0.0843 | 0.0012 |
| 34957 | 458 | iThemba | IT-C-2536 | 19980 | 103 | -28.4 | 0.0831 | 0.0011 |
| 35716 | 456 | iThemba | IT-C-2381 | 12679 | 59 | -29.6 | 0.2063 | 0.0015 |
| 35716 | 456 | iThemba | IT-C-2566 | 12629 | 64 | -29.6 | 0.2076 | 0.0017 |
| 35722 | 456 | iThemba | IT-C-2390 | 11650 | 55 | -25.4 | 0.2345 | 0.0016 |
| 35722 | 456 | iThemba | IT-C-2569 | 11641 | 56 | -25.4 | 0.2348 | 0.0017 |
| 36264 | 450 | iThemba | IT-C-2357 | 17823 | 95 | -25.2 | 0.1088 | 0.0013 |
| 36264 | 450 | iThemba | IT-C-2376 | 17841 | 103 | -25.2 | 0.1085 | 0.0014 |