| **Supplemental Table 2 - Paloma Radiocarbon Dates Modeled as Phases in Sequence** | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *OxCal v4 3.2 Bronk Ramsey (2017); r:5 SHCal13 atmospheric curve (Hogg et al 2013)* | | | | | | | | | | | | | | | | | |
|  |  |  | ***Radiocarbon Date*** | | | ***Calibrated Date (cal BP)*** | | | | ***Modeled Date (cal BP)*** | | | | ***Indices*** | | | |
|  |  |  | ***C14 Age*** | ***+/-*** | ***Source*** | ***from*** | ***to*** | ***%*** | ***median*** | ***from*** | ***to*** | ***%*** | ***median*** | ***A*** | ***L*** | ***P*** | ***C*** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sequence** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary Start Layer 600*** | |  |  |  |  |  |  |  | **9,641** | **8,244** | **95.4** | **8,651** |  |  |  | **97.7** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 600** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | UGa 3892 (Layer 600) | 7,735 | 100 | Benfer 1984 | 8,770 | 8,222 | 95.4 | 8,494 | 8,719 | 8,215 | 95.5 | 8,482 | 101.1 |  |  | 99.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 600*** | |  |  |  |  |  |  |  | **8,628** | **7,554** | **95.4** | **8,276** |  |  |  | **99.6** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary Start Layer 500*** | |  |  |  |  |  |  |  | **8,314** | **7,163** | **95.4** | **7,614** |  |  |  | **99.6** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 500** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Ny-243 (Layer 500) | 6,510 | 180 | Benfer 1984 | 7,676 | 6,960 | 95.4 | 7,363 | 7,680 | 7,033 | 95.4 | 7,398 | 105.2 |  |  | 99.8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 500*** | |  |  |  |  |  |  |  | **7,600** | **6,779** | **95.4** | **7,231** |  |  |  | **99.8** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary Start Layer 400*** | |  |  |  |  |  |  |  | **7,326** | **6,500** | **95.4** | **6,914** |  |  |  | **99.5** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 400** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Birm-516 (Layer 400) | 6,410 | 140 | Benfer 1984 | 7,563 | 6,950 | 95.4 | 7,279 | 7,564 | 6,951 | 95.4 | 7,279 |  |  | 9.3 | 99.5 |
|  |  | I-3126 (Layer 400) | 6,310 | 340 | Benfer 1984 | 7,795 | 6,405 | 95.4 | 7,129 | 7,116 | 6,297 | 95.4 | 6,696 | 71.3 |  |  | 99.7 |
|  |  | UGa 4211 (Layer 400) | 6,000 | 150 | Benfer 1984 | 7,230 | 6,441 | 95.4 | 6,807 | 7,018 | 6,354 | 95.4 | 6,694 | 97 |  |  | 99.7 |
|  |  | Ny-242 (Layer 400) | 6,030 | 180 | Benfer 1984 | 7,265 | 6,415 | 95.4 | 6,846 | 7,032 | 6,323 | 95.4 | 6,693 | 95.2 |  |  | 99.7 |
|  |  | UGa 4117 (Layer 400) | 5,535 | 95 | Benfer 1984 | 6,482 | 6,005 | 95.4 | 6,288 | 6,528 | 6,133 | 95.4 | 6,335 | 105.9 |  |  | 99.9 |
|  |  | UGa 4208 (Layer 400) | 5,435 | 110 | Benfer 1984 | 6,398 | 5,933 | 95.4 | 6,167 | 6,484 | 6,112 | 95.4 | 6,285 | 84.5 |  |  | 99.8 |
|  |  | UGa 4120 (Layer 400) | 5,020 | 85 | Benfer 1984 | 5,912 | 5,587 | 95.4 | 5,725 | 5,912 | 5,587 | 95.4 | 5,725 |  |  |  | 99.7 |
|  |  | UGa 4204 (Layer 400) | 6,165 | 810 | Benfer 1984 | 8,992 | 5,311 | 95.4 | 7,013 | 9,000 | 5,310 | 95.4 | 7,010 |  |  | 28.8 | 96.3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 400*** | |  |  |  |  |  |  |  | **6,390** | **6,014** | **95.4** | **6,204** |  |  |  | **99.9** |
|  | ***Boundary Start Layer 300*** | |  |  |  |  |  |  |  | **6,266** | **5,925** | **95.4** | **6,077** |  |  |  | **99.8** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 300** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | UGa 4120 (Layer 300) | 5,020 | 85 | Benfer 1984 | 5,912 | 5,587 | 95.4 | 5,725 | 5,912 | 5,587 | 95.4 | 5,725 |  |  | 30.4 | 99.6 |
|  |  | D-AMS 033015 (Layer 300) | 5,111 | 33 | This paper | 5,913 | 5,725 | 95.4 | 5,816 | 5,918 | 5,759 | 95.4 | 5,867 | 99.3 |  |  | 99.9 |
|  |  | UGa 4119 (Layer 300) | 5,400 | 75 | Benfer 1984 | 6,293 | 5,945 | 95.4 | 6,134 | 6,184 | 5,906 | 95.4 | 6,015 | 76.8 |  |  | 99.9 |
|  |  | UGa 4210 (Layer 300) | 5,110 | 125 | Benfer 1984 | 6,178 | 5,587 | 95.4 | 5,814 | 6,096 | 5,732 | 95.4 | 5,893 | 105 |  |  | 99.9 |
|  |  | UGa 4121 (Layer 300) | 5,636 | 360 | Benfer 1984 | 7,252 | 5,656 | 95.4 | 6,420 | 6,166 | 5,756 | 95.4 | 5,961 | 80.5 |  |  | 99.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 300*** | |  |  |  |  |  |  |  | **5,905** | **5,673** | **95.4** | **5,802** |  |  |  | **99.9** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary Start Layer 200*** | |  |  |  |  |  |  |  | **5,857** | **5,594** | **95.4** | **5,706** |  |  |  | **99.9** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 200** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | UGa 4205 (Layer 230) | 5,055 | 85 | Benfer 1984 | 5,918 | 5,597 | 95.4 | 5,760 | 5,786 | 5,485 | 95.4 | 5,653 | 84.3 |  |  | 99.9 |
|  |  | UGa 4118 (Layer 230) | 5,000 | 200 | Benfer 1984 | 6,268 | 5,290 | 95.4 | 5,711 | 5,785 | 5,361 | 95.4 | 5,618 | 121.1 |  |  | 99.9 |
|  |  | UGa 4207 (Layer 230) | 1,830 | 85 | Benfer 1984 | 1,919 | 1,530 | 95.4 | 1,713 | 1,917 | 1,530 | 95.4 | 1,713 |  |  |  | 99.6 |
|  |  | UGa 4206 (Layer 220) | 4,780 | 100 | Benfer 1984 | 5,711 | 5,074 | 95.5 | 5,465 | 5,715 | 5,350 | 95.4 | 5,564 | 88.7 |  |  | 99.9 |
|  |  | Birm-515 (Layer 200) | 4,900 | 130 | Benfer 1984 | 5,897 | 5,319 | 95.4 | 5,596 | 5,754 | 5,337 | 95.4 | 5,606 | 123.7 |  |  | 99.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 200*** | |  |  |  |  |  |  |  | **5,715** | **5,033** | **95.4** | **5,482** |  |  |  | **98.7** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary Start Layer 100*** | |  |  |  |  |  |  |  | **4,907** | **993** | **95.3** | **1,843** |  |  |  | **98** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Phase Layer 100** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | D-AMS 033014 (Layer 100) | 1,224 | 33 | This paper | 1,182 | 981 | 95.4 | 1,093 | 1,184 | 982 | 95.4 | 1,101 | 100 |  |  | 99.9 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ***Boundary End Layer 100*** | |  |  |  |  |  |  |  | **1,226** | **-289** | **95.4** | **890** |  |  |  | **96.2** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | A model | 84.4 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ***A overall*** | **82** |  |  |  |