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| Supplementary Table 2. Radiocarbon data used in age model  |   |   |   |   |   |
|   | Core | Depth in Core (cm) | Sample Location Relative to Event Layers | Projected Event-Free Depth in Core 11B (cm) | Lab Number (NOSAMS) | Lab Reported Age (14C yr BP) | Lab Reported Age Error (1 sigma) | Calibrated 2 sigma age (yr BP) | Material Dated |
| OZTT19-6A-1-48 | 6A | 48 | above EL1 | 25 | OS-151404  | 205 | 15 | 149-296 | Fir needles |
| OZTT19-5A-1-40.5 | 5A | 40.5 | below EL1 | 32.3 | OS-151371  | 310 | 55 | 157-497 | Fir needles |
| OZTT19-3A-1-88 | 3A | 88 | Above EL2 | 42.3 | OS-151401  | 495 | 20 | 508-539 | Fir needles |
| OZTT19-11A-74 | 11A | 74 | Below EL2 | 51.3 | OS-171874  | 645 | 15 | 559-655 | Fir needles |
| OZTT19-10A-1-79.5 | 10A | 79.5 | Above EL3 | 60.3 | OS-151405  | 1020 | 20 | 921-963 | Fir needles |
| OZTT19-13A-1-93 | 13A | 93 | Above EL4 | 72.9 | OS-151407  | 1220 | 20 | 1067-1237 | Fir needles |
| OZTT19-7B 75.5 | 7B | 75.5 | Below EL4 | 85.8 | OS-171926  | 1490 | 20 | 1312-1401 | Fir needles |