**Table S2.** Radiocarbon ages (and calibrated ages) for Clayton, Plainfield and Ward Quarry Sections. Ages were calibrated with Calib 8.1 using IntCal20 (Stuiver and Reimer, 1993; Reimer et al., 2020). These ages were pooled for use in Figure 5. The fossils were preserved in palustrine sediment between two last glacial tills of the Trafalgar Formation (Wayne, 1963; Loope et al., 2018).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lab #** | **14C age** | **δ13C** | | | **Material/Taxa** | **Calibrated age range (2σ)** | **P^** | | **Calibrated age \***  **(Median)** |
|  | (14C yr BP) | | (‰) |  | | (cal yr BP) |  | (cal yr BP) | | |
| **Ward Quarry** (39.360443, -85.805904) | | | | | | | | | | | |
| OS-107972 | 18,100±70 | | –24.3 | wood | | 21,867–22,238 | 1.00 | 22,060 | | |
| OS-107949 | 18,050±55 | | –24.1 | wood | | 21,831–22,150 | 1.00 | 22,000 | | |
| OS-108025 | 18,250±160 | | –24.2 | *Picea* log | | 21,810–22,481 | 1.00 | 22,190 | | |
| OS-110837 | 17,800±110 | | –24.2 | *Picea* log | | 21,228–22,001 | 1.00 | 21,620 | | |
| OS-110838 | 18,050±110 | | –23.1 | wood | | 21,674–22,269 | 0.95 | 21,980 | | |
| OS-110839 | 17,950±110 | | –24.3 | wood | | 21,428–22,107 | 1.00 | 21,830 | | |
| OS-110840 | 18,050±110 | | –26.2 | wood | | 21,674–22,269 | 0.95 | 21,980 | | |
| OS-117053 | 18,050±70 | | –5.5 | Succineidae shell | | 21,788–22,194 | 1.00 | 22,000 | | |
| OS-117054 | 18,550±60 | | -- | Succineidae shell | | 22,324–22,597 | 1.00 | 22,440 | | |
| OS-117157 | 19,000±170 | | –3.1 | Succineidae shell | | 22,453–23,319 | 1.00 | 22,910 | | |
| OS-117055 | 18,300±60 | | –6.2 | *Gastrocopta armifera* shell | | 22,104–22,390 | 1.00 | 22,260 | | |
|  |  | |  |  | |  |  |  | | |
| **Plainfield Section** (39.709840, -86.373545) | | | | | | | | | | | |
| OS-123519 | 18,050±160 | | –27.8 | wood | | 21,438–22,309 | 1.00 | 21,950 | | |
| OS-123575 | 17,850±100 | | –26.5 | wood | | 21,385–22,008 | 1.00 | 21,680 | | |
| OS-123576 | 17,900±80 | | –27.3 | wood | | 21,436–22,011 | 1.00 | 21,770 | | |
| OS-123520 | 18,100±150 | | –27.5 | wood | | 21,664–22,357 | 0.94 | 22,030 | | |
| OS-123521 | 18,100±160 | | –27.8 | wood | | 21,647–22,357 | 0.93 | 22,020 | | |
| OS-123522 | 18,200±150 | | –27.2 | wood | | 21,772–22,444 | 1.00 | 22,140 | | |
| OS-123664 | 18,650±75 | | –5.9 | Succineidae shell | | 22,389–22,869 | 1.00 | 22,560 | | |
| OS-123665 | 18,800±80 | | –6.0 | Succineidae shell | | 22,490–22,946 | 1.00 | 22,730 | | |
| OS-123666 | 18,550±70 | | –5.4 | Succineidae shell | | 22,306–22,650 | 1.00 | 22,450 | | |
| OS-123667 | 18,650±70 | | –5.2 | Succineidae shell | | 22,390–22,863 | 1.00 | 22,550 | | |
|  |  | |  |  | |  |  |  | | |
| **Clayton Section** (39.716444, -86.494892) | | | | | | | | | | | |
| ISGS-A3601 | 17,870±60 | | –25.9 | *Salix*? stem | | 21,433–21,955 | 1.00 | 21,720 | | |
| OS-123514 | 18,000±150 | | –27.3 | *Picea* needles | | 21,415–22,252 | 1.00 | 21,890 | | |
| OS-123515 | 18,050±150 | | –27.7 | *Picea* needles | | 21,449–22,294 | 1.00 | 21,960 | | |
| OS-123516 | 17,900±150 | | -- | *Dryas* leaves | | 21,274–22,181 | 1.00 | 21,740 | | |
| OS-123517 | 18,050±150 | | –27.8 | wood | | 21,449–22,294 | 1.00 | 21,960 | | |
| OS-123518 | 18,050±150 | | –28.4 | wood | | 21,449–22,294 | 1.00 | 21,960 | | |
| OS-123513 | 18,000±150 | | –26.9 | insect egg casing | | 21,415–22,252 | 1.00 | 21,890 | | |
| OS-123452 | 17,950±130 | | –24.3 | wood | | 21,404–22,156 | 1.00 | 21,820 | | |
| ISGS-A3741 | 18,080±70 | | –5.7 | *Discus whitneyi shell* | | 21,838–22,219 | 1.00 | 22,040 | | |
| ISGS-A3740 | 17,930±70 | | –4.6 | Succineidae shell | | 21,460–22,031 | 1.00 | 21,830 | | |
| ISGS-A3739 | 17,990±70 | | –4.8 | Succineidae shell | | 21,684–22,126 | 0.96 | 21,920 | | |
| ISGS-A3738 | 17,770±60 | | –4.6 | Succineidae shell | | 21,367–21,843 | 1.00 | 21,600 | | |

^ Probability of age being within 2σ calibrated age range.

\* Median calibrated age, rounded to nearest 10 yr. Probabilities < 7 % not shown. Calibrated with

CALIB 8.1 using IntCal20 (Stuiver and Reimer, 1993; Reimer et al., 2020).

OS = Woods Hole Oceanographic Institute; ISGS = Illinois State Geological Survey