|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Tab. S1:** Data used for reconstructing the age model of cores SL99, SL114 and SL119. Age points are derived from AMS 14C dates, the age of the Tephra-layers Y5, Y2, Z2 and S1 (deVivo et al. 2001, Wulf et al. 2002, Hamann et al. 2010), graphical correlation of the δ18O records with the LR04 isotope stack (Lisiecki and Raymo 2005) and surface correlation with multicorer MC625 from the same position.  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Core**  | **Depth (cm)** | **Age (cal ka BP)** | **Datum** |  |  |  |  |  |  |  |  |  |
| SL99 | 0.00 | 0.00 | Sediment surface |  |  |  |  |  |  |  |  |  |
| SL99 | 5.25 | 4.09 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL99 | 18.50 | 10.30 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 20.25 | 10.79 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL99 | 50.25 | 21.93 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL99 | 75.25 | 29.08 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL99 | 91.00 | 39.28 | Y5-Tephra Top |  |  |  |  |  |  |  |  |  |
| SL99 | 95.00 | 39.28 | Y5-Tephra Base |  |  |  |  |  |  |  |  |  |
| SL99 | 139.75 | 59.85 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 161.25 | 74.06 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 180.00 | 81.50 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 191.75 | 87.28 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 230.25 | 108.50 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 242.75 | 118.18 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 262.75 | 126.60 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 284.25 | 135.27 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 333.25 | 155.00 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 360.25 | 165.03 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 398.25 | 174.30 | LR04 |  |  |  |  |  |  |  |  |  |
| SL99 | 429.75 | 190.00 | LR04 |  |  |  |  |  |  |  |  |  |
|   |   |   |   |  |  |  |  |  |  |  |  |  |
| SL114 | -17 | 0.00 | surface correlation |  |  |  |  |  |  |  |  |  |
| SL114 | 39 | 8.83 | S1 Tephra |  |  |  |  |  |  |  |  |  |
| SL114 | 108 | 21.62 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL114 | 200 | 39.37 | AMS 14C |  |  |  |  |  |  |  |  |  |
|   |   |   |   |  |  |  |  |  |  |  |  |  |
| SL119 | 0 | 0.00 | Sediment surface |  |  |  |  |  |  |  |  |  |
| SL119 | 10 | 3.65 | Z2 Tephra |  |  |  |  |  |  |  |  |  |
| SL119 | 60 | 15.14 | AMS 14C |  |  |  |  |  |  |  |  |  |
| SL119 | 99 | 21.95 | Y2 Tephra Top  |  |  |  |  |  |  |  |  |  |
| SL119 | 101 | 21.95 | Y2 Tephra Base  |  |  |  |  |  |  |  |  |  |
| SL119 | 124 | 27.03 | AMS 14C |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |