

Appendix C: Age Model Tie Points

The timescale for the ^{10}Be derived precipitation and the magnetic susceptibility records at Baoji was derived using 16 tie points between 0-450 ka BP using the Baoji magnetic susceptibility record correlated to U/Th dated Chinese speleothem $\delta^{18}\text{O}$ variations presented in Cheng et al. (2012). One tie point for the timing of MIS15a is based on Lisiecki and Raymo (2005). The age model was assembled using a cubic piecewise polynomial spline.

Depth (m)	Age (ka)	Stage
0.00	0.0	present
1.55	13.0	MIS1
2.00	20.0	LGM
3.70	53.0	MIS3
5.20	78.0	MIS5a
6.75	88.0	MIS5b
8.28	102.0	MIS5c
10.00	114.0	MIS5d
11.80	128.0	MIS5e
15.00	148.0	MIS6
18.65	173.0	MIS?
21.65	193.0	MIS7a
23.35	213.0	MIS7c
24.70	241.0	MIS7e
27.65	311.0	MIS9c
28.75	333.0	MIS9e
34.70	412.0	MIS11c
37.80	448.0	MIS??
41.20	488.0	MIS13a
50.20	580.0	MIS15a

Cheng, H., Zhang, P.Z., Spotl, C., Edwards, R.L., Cai, Y.J., Zhang, D.Z., Sang, W.C., Tan, M., An, Z.S., 2012. The climatic cyclicity in semiarid-arid central Asia over the past 500,000 years. *Geophys. Res. Lett.* 39, 5.

Lisiecki, L.E., Raymo, M.E., 2005. A Pliocene-Pleistocene stack of 57 globally distributed benthic delta O-18 records. *Paleoceanography* 20.