

Liu, S., Li, J., Stockli, D.F., Song, C., Guo, B., Stockli, L.D., Ma, Z., Li, X., and Peng, T., 2018, Reappraisal of Miocene eolian deposition in Tianshui Basin, China, based on an investigation of stratigraphy and provenance: GSA Bulletin, <https://doi.org/10.1130/B32056.1>.

Data Repository

Data Table DR1: Heavy mineral results of this study

Data Table DR2: Detrital zircon isotopes and ages of this study

Data Table DR3: Zircon age components determined by the BayesMix

Data Table DR4: Igneous rock ages and references

Figure DR1: Petrography and photographs showing detailed observation of sedimentary structures on the Qin'an and Yawan sections

Figure DR2: Individual plots for samples from rivers and mountain belts

Figure DR3: Individual plots for samples from deserts

Figure DR4: Individual plots for samples from loess/Red Clay sequences

Figure DR5: Individual plots for samples from inland basins

Table DR1: P values of Kolmogorov–Smirnov (K-S) test for zircon ages

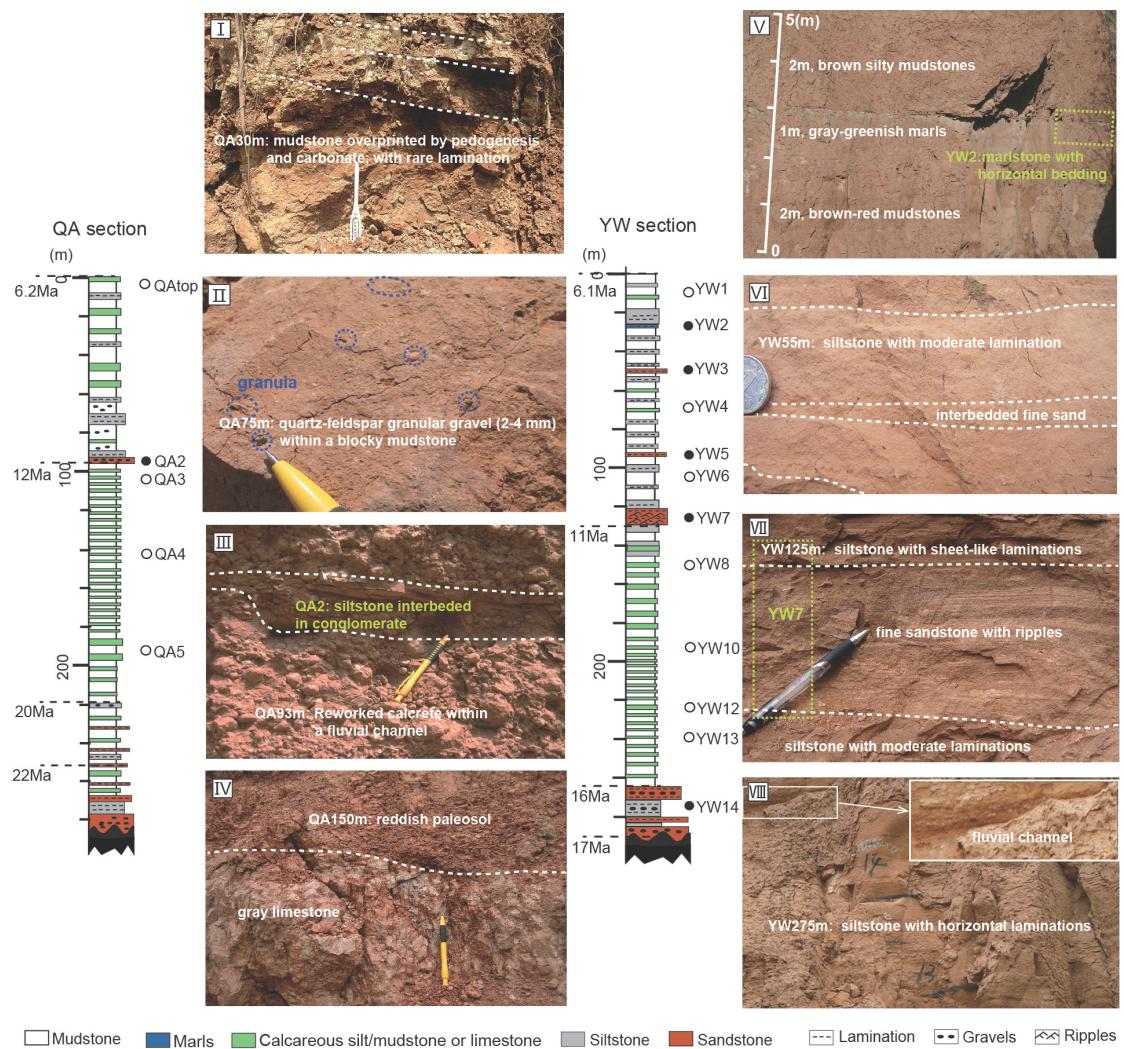


Figure DR1: Petrography and photographs showing detailed observation of sedimentary structures on the Qin'an and Yawan sections

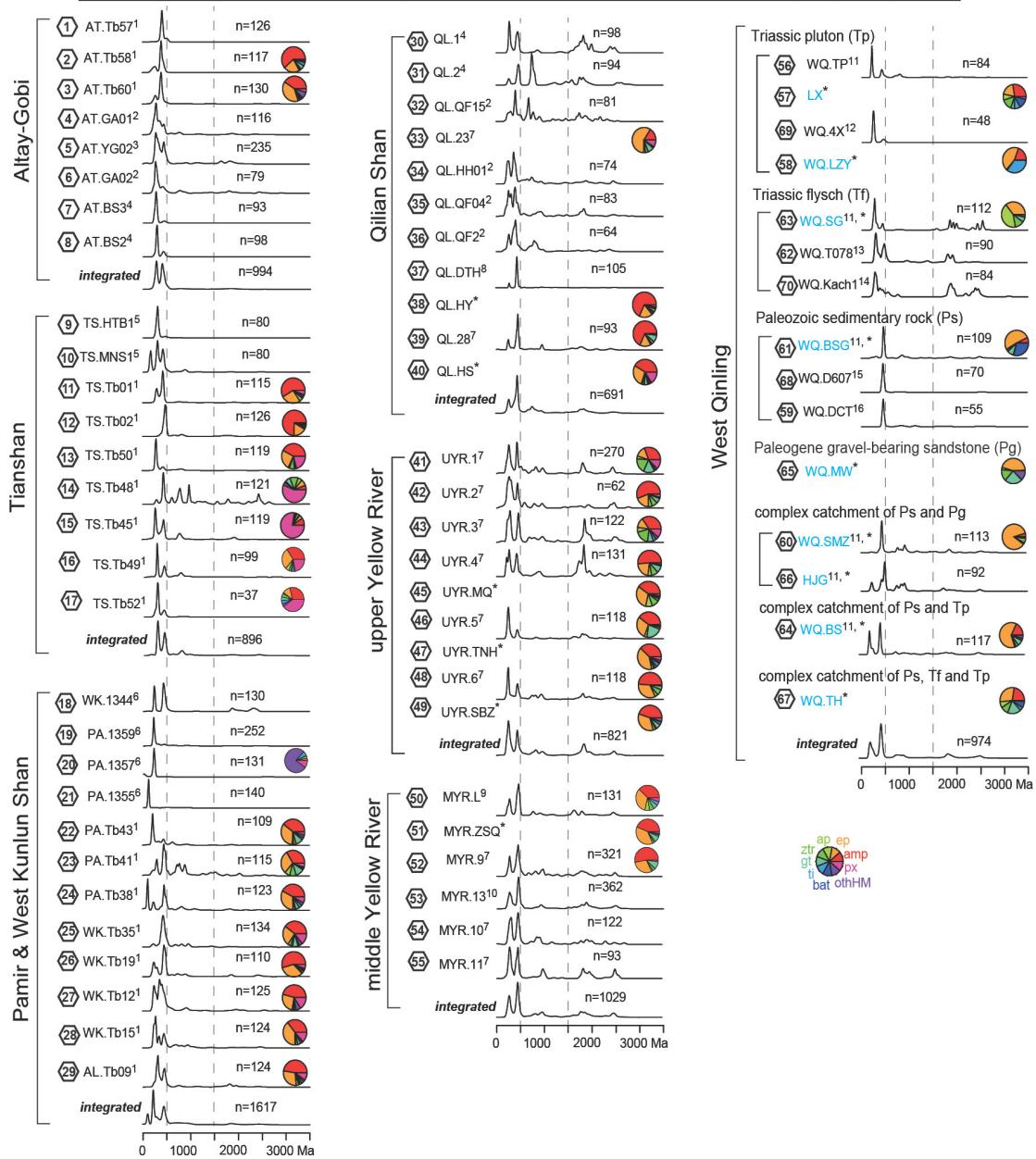
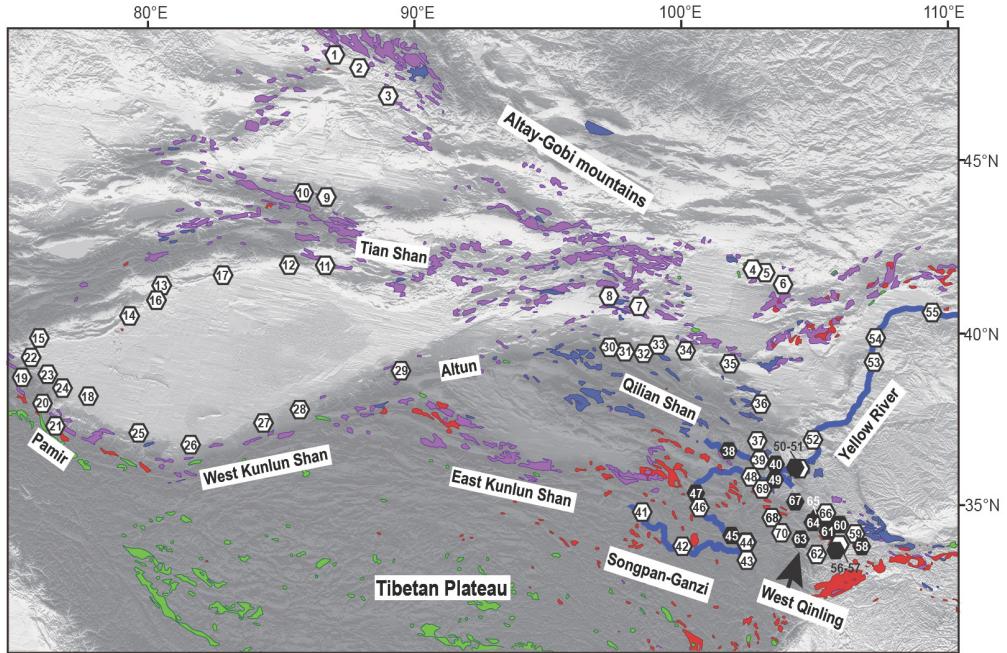


Figure DR2: Individual plots for samples from rivers and mountain belts.

Superscripts are references that 1 for Rittner et al., 2016; 2 for Zhang et al., 2016b; 3 for Che and Li, 2013; 4 for Wang et al., 2016b; 5 for Ren et al., 2017; 6 for Blayney et al., 2016; 7 for Nie et al., 2015; 8 for Guo et al., 2018; 9 for Stevens et al., 2013; 10 for Licht et al., 2016; 11 for Liu et al., 2015; 12 for Lease et al., 2007, 2012; 13 for Ding et al., 2013; 14 for Weislogel et al., 2010; 15 for Zhang et al., 2014b; 16 for Wu et al., 2012; * for this paper.

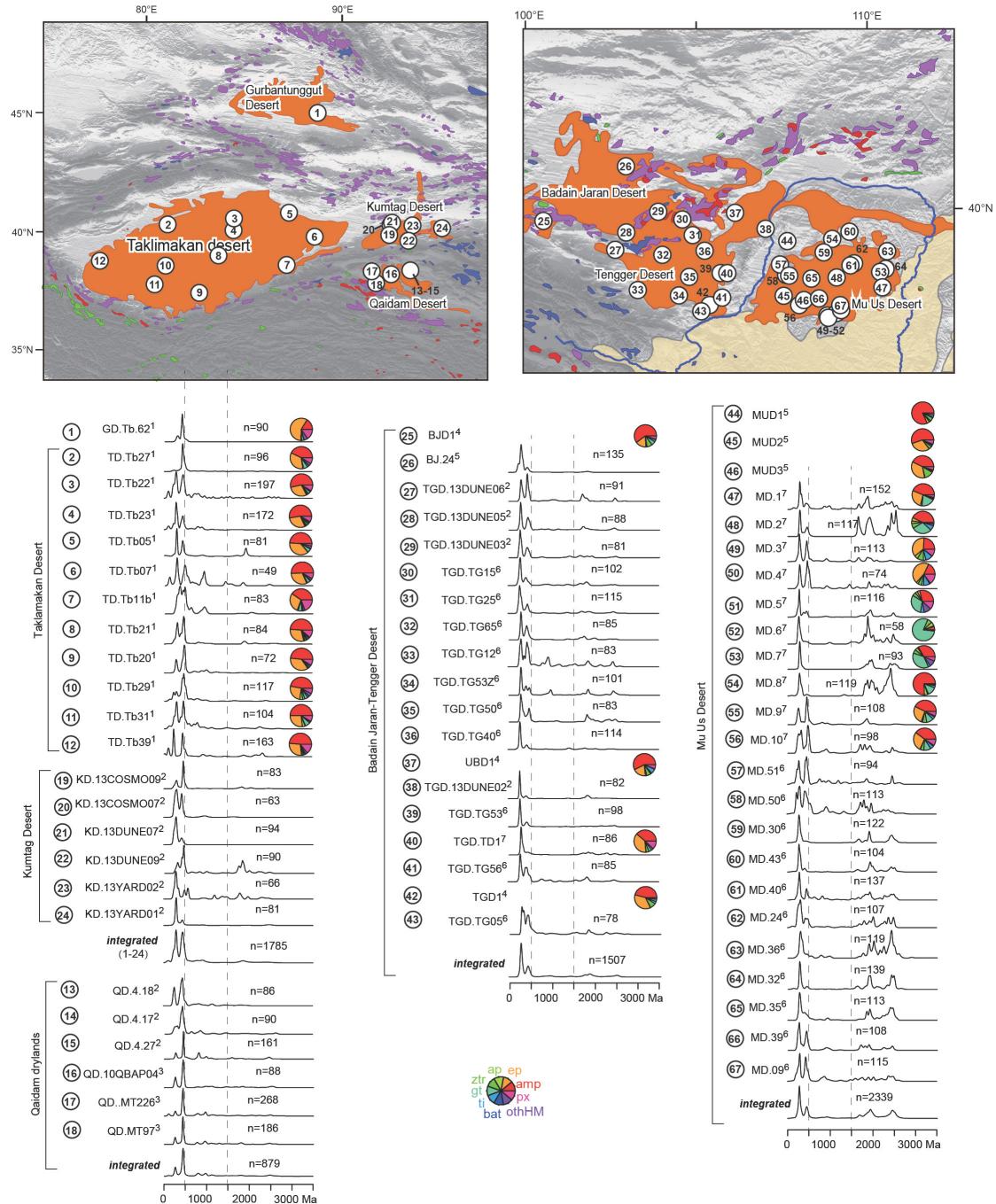


Figure DR3: Individual plots for samples from loess/Red Clay sequences.

Superscripts are references that 1 for Rittner et al., 2016; 2 for Licht et al., 2016; 3 for Pollen et al., 2011; 4 for Nie et al., 2014; 5 for Nie et al., 2015; 6 for Zhang et al., 2016b; 7 for Stevens et al., 2013.

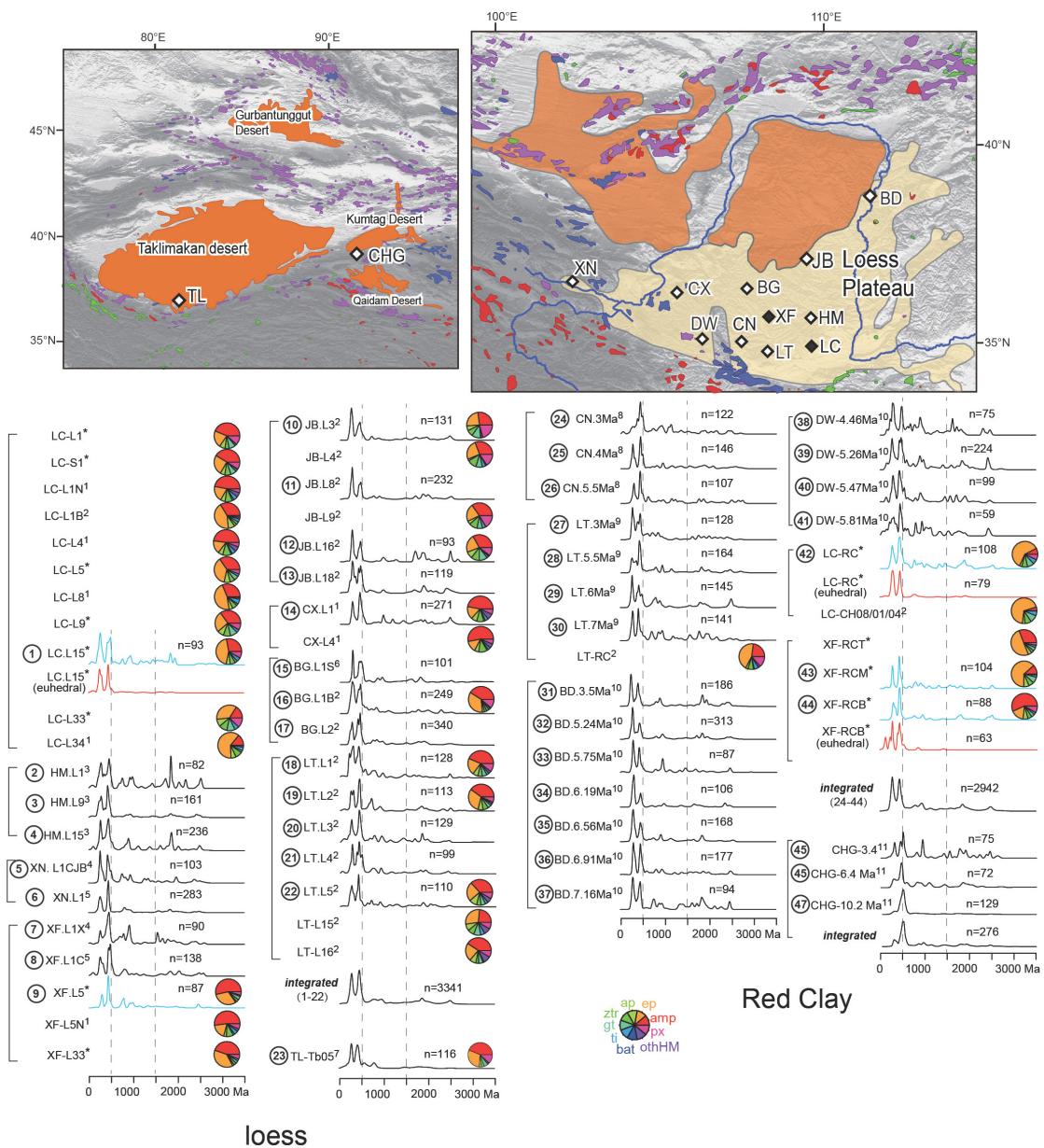


Figure DR4: Individual samples cited from loess/Red Clay sequences.

Superscripts are references that 1 for Nie et al., 2014; 2 for Bird et al., 2015; 3 for Pollen et al., 2011; 4 for Xiao et al., 2012; 5 for Xiao et al., 2013; 6 for Stevens et al., 2013; 7 for Rittner et al., 2016; 8 for Nie et al., 2015; 9 for Gong et al., 2016; 10 for Shang et al., 2016; 11 for Pan et al., 2016; * for this paper.

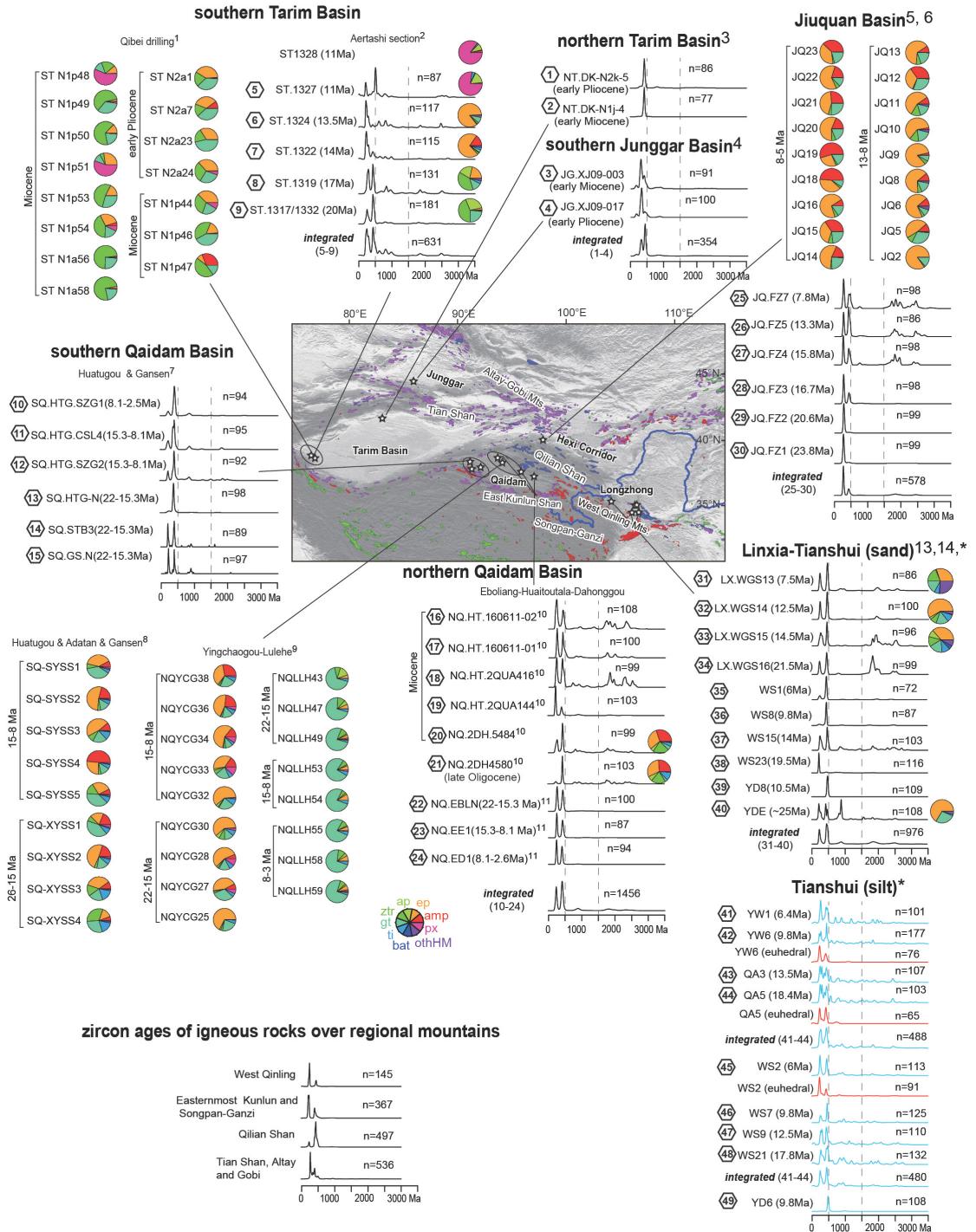


Figure DR5: Individual plots for samples from inland basins. Superscripts are references that 1 for Lei et al., 2011; 2 for Blayney et al., 2016; 3 for Li et al., 2010; 4 for Yang et al., 2013; 5 for Song et al., 2002; 6 for Wang et al., 2016b; 7 for Cheng et al., 2016a; 8 for Li et al., 2015; 9 for Jian et al., 2013; 10 for Bush et al., 2015; 11 for Cheng et al., 2016b; 12 for Lease et al., 2007, 2012; 13 for

Wang et al., 2016; * for this paper.

Table DR1: P values of Kolmogorov-Smirnov test using the Excel macro from Guynn and Gehrels (2010)