Supplement of

High resolution leaf wax carbon and hydrogen isotopic record of late Holocene paleoclimate in arid Central Asia

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Fig S1: Inflow of Lake Karakuli (visible in the background). Photo taken at alluvial fan south of the lake (see Fig. 1). Mt. Kongur Shan in the background. (Photo credit: Jian Ni; 20th September 2008).
Fig. S2: Molecular abundance distribution of $n$-alkanoic acids showing mean and standard deviation (error bars) for all downcore samples ($n = 125$)
Fig S3: δD and δ^{13}C values of C_{24}, C_{26} and C_{28} n-alkanoic acids downcore. Error bars represent standard deviations of triplicate measurements.
Fig S4: Relative abundance distribution of $n$-alkanoic acids in one submerged aquatic plant (*Potamogeton* sp.) collected close to the shore of Lake Karakuli from ca. 20cm water depth.

S5: Equation to calculate fractionation factors ($\varepsilon$) between source water and lipids:

$$
\varepsilon_{\text{lipid/water}} = 1000[(\delta^{D}_{\text{lipid}} + 1000)/(\delta^{D}_{\text{water}} + 1000)-1]
$$

S6: data tables; (a) $\delta^{D}$-values and (b) $\delta^{13}C$-values of measured $n$-alkanoic acids