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Table S1. Summary of OSL data. w.c the water content by weight, n the number of aliquots used to determine the equivalent dose (D_e). Ages are relative to the year 2011 CE.

Risø lab. ID	Sample depth (m below surface)	Sample level (m DVR90)	w.c. (%)	n	D_e (Gy)	Total dose rate (mGy yr^{-1})	OSL-age (ka)
H05541	0.64	6.3	35	25	1.39±0.03	0.60±0.04	2.33±0.16
H05542	1.77	5.17	29	24	1.83±0.06	0.68±0.04	2.68±0.19
H05543	2.64	4.3	21	23	1.60±0.04	0.59±0.04	2.74±0.19
H05544	3.34	3.6	19	24	1.69±0.04	0.63±0.04	2.68±0.19
H05545	4.21	2.73	28	23	1.87±0.05	0.68±0.04	2.76±0.18
H05546	4.34	2.6	25	24	1.85±0.06	0.64±0.04	2.90±0.22
H05547	5.29	1.65	31	23	1.68±0.04	0.59±0.04	2.82±0.20
H05548	5.68	1.26	28	23	2.37±0.07	0.75±0.04	3.17±0.20
H05549	6.66	0.28	15	18	2.17±0.07	1.04±0.06	2.08±0.14 [a]
H05550	7.61	-0.67	25	23	1.85±0.06	0.58±0.04	3.17±0.25
H05551	8.84	-1.9	30	24	2.60±0.10	0.81±0.05	3.20±0.24
H05552	9.55	-2.61	30	23	2.82±0.07	0.77±0.04	3.67±0.23
H05553	10.59	-3.65	16	23	3.03±0.09	0.89±0.06	3.41±0.26
H05554	11.51	-4.57	22	22	2.91±0.09	0.75±0.04	3.87±0.26
H05555	12.36	-5.42	16	23	3.99±0.17	1.03±0.06	3.88±0.29

[a] Age reversal possibly due to an overestimated total dose rate.