On-line Supplementary Table 4 Summary data for OSL ages of section samples from the Taklamakan Deserts (cited from Yang et al., 2006).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field No.  (Lab no.) | Material dated (grain size, µm) | n | K (%) | Th (ppm) | U (ppm) | Depth (m) | D (Gy/kyr) | DRER (Gy) | Age (a) |
| 13-14  (TAK1-1) | Quartz  (100-150) | 20 | 1.76±0.09 | 7.58±0.38 | 1.76±0.26 | 3.5±0.2 | 2.81±0.19 | 112.0±3.4 | 39800±2900 |
| 13-16  (TAK1-2) | Quartz  (100-150) | 20 | 1.72±0.09 | 7.84±0.39 | 1.44±0.36 | 2.0±0.7 | 2.67±0.19 | 74.9±3.3 | 28000±2300 |
| 13-18  (TAK1-3) | Quartz  (100-150) | 19 | 1.43±0.07 | 7.34±0.37 | 1.49±0.37 | 0.8±0.3 | 2.41±0.17 | 70.3±3.7 | 29200±2600 |
| 08-13  (TAK6-1) | Quartz  (100-150) | 20 | 2.11±0.10 | 8.46±0.42 | 1.67±0.23 | 2.0±0.5 | 3.13±0.20 | 45.5±1.6 | 14500±1100 |
| 08-14  (TAK6-2) | Quartz  (100-150) | 20 | 1.80±0.09 | 9.10±0.45 | 1.86±0.25 | 0.5±0.2 | 3.00±0.19 | 6.9±0.3 | 2320±180 |
| 02-1  (TAK8-1) | Quartz  (100-150) | 18 | 1.82±0.09 | 8.93±0.45 | 2.31±0.25 | 0.5±0.2 | 3.09±0.20 | 73.2±3.2 | 23700±1800 |
| 02-2  (TAK8-2) | Quartz  (100-200) | 5 | 1.59±0.08 | 8.90±0.45 | 2.34±0.26 | 0.5±0.2 | 2.86±0.19 | 24.7±1.7 | 8700±800 |