Supplementary Table 1: GPS coordinates for locations of paleosol sites and locations of 6 Chapati Tuff samples used for parent material in mass-balance calculations.

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| --- | --- | --- |
| **Location** | **Latitude** | **Longitude** |
| FLK Zinj spring |  2°59'20.10"S |  35°20'54.00"E |
| FLK Zinj |  2°59'22.62"S |  35°20'56.04"E |
| E4 |  2°59'26.30"S |  35°21'18.50"E |
| PTK A & B |  2°59'34.92"S |  35°20'58.38"E |
| FLK S spring |  2°59'39.90"S |  35°20'56.52"E |

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| **Chapati Tuff samples: see Fig. 1 map from Uribelarrea et al. (2014)** |
|  | **Sample** | **Geotrench** |
|  | GA-34-08 | FLK-NN-1 |
|  | GA-49-08 | FLK-NN-1 |
|  | GA-69-12 | FLK-10 |
|  | GA-83-12 | FLK-6 |
|  | GA-137-12 | FLK-S-6 |
|  | GA-97-13 | FLK-03 (at FLK paleosol site) |