



## Supplement of

## Millennial-scale denudation rates in the Himalaya of Far Western Nepal

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## Introduction

In the main text, Figures 2 and 4 show maps of bedrock lithology, normalized channel steepness, mean annual precipitation, specific stream power, microseismicity, and landslide scars across the entire study region in Far Western Nepal. Here, Figures S1-S6 show maps of these characteristics for the individual study basins, which form the basis for the basin-averaged values in Table 1. Figure S7 shows the extent of modern glaciers, which was used to compute the fractional areal coverage of ice in each basin,  $f_{ice}$  (Section 3.2.1). Table S1 reports grain size data for the sediment samples collected for cosmogenic nuclide analysis.



**Figure S1.** Lithologic maps showing the distribution of tectonostratigraphic units in the study basins (DeCelles et al., 2001; Robinson et al., 2006; Yin, 2006; Ojha et al., 2009).



**Figure S2.** Normalized channel steepness (Equation 1) in the study basins atop grayscale shaded relief.



**Figure S3.** Mean annual precipitation (Bookhagen and Burbank, 2010) atop grayscale shaded relief in the study basins.



**Figure S4.** Specific stream power in the study basins above a drainage area threshold of  $1 \text{ km}^2$  (Section 3.4).



**Figure S5.** Locations of microseismic events ( $M_w > 2$ ) over 1992-2005 in the study basins compiled from the epicenter map published by the Department of Mines and Geology of Nepal, 1992-2005.



Figure S6. Landslide scars mapped in 2002-2015 satellite imagery in the study basins.



Figure S7. Extent of mountain glaciers (GLIMS and National Snow and Ice Data Center, 2005).



**Figure S8.** Example of landslide scar mapped from satellite imagery in  $\bigcirc$  Google Earth. This was the basis for the landslide scar maps in Figure S6 and the measurement of  $f_{scar}$  (Table 1).

Fraction of total mass (%)							
Sieve size (mm)	Bheri	Budhiganga	Kalanga	Karnali	Karnali Ferry	Raduwa	Seti
>2.0	0.5	0.7	1.2	0.6	0.5	53.1	1.1
1.0 - 2.0	0.4	1.4	6.4	1.2	1.0	32.5	6.9
0.5 - 1.0	2.8	17.8	17.8	16.0	46.4	7.8	22.7
0.25 - 0.5	44.8	57.2	28.4	30.7	44.3	1.1	35.6
<0.25	51.5	23.0	46.2	51.5	7.8	5.6	33.8

**Table S1.** Grain size measurements in sediment samples collected for cosmogenic nuclide analysis.