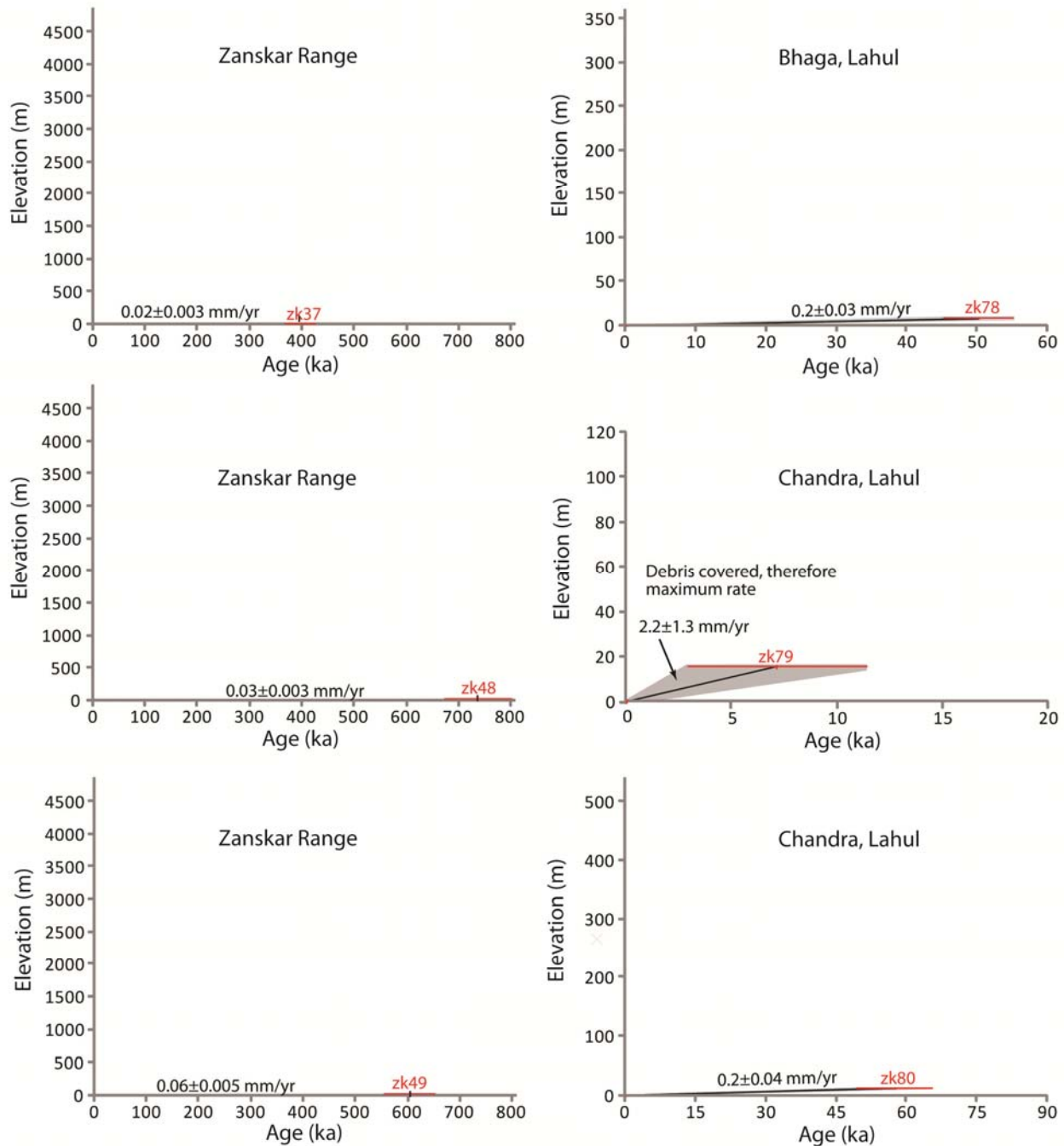
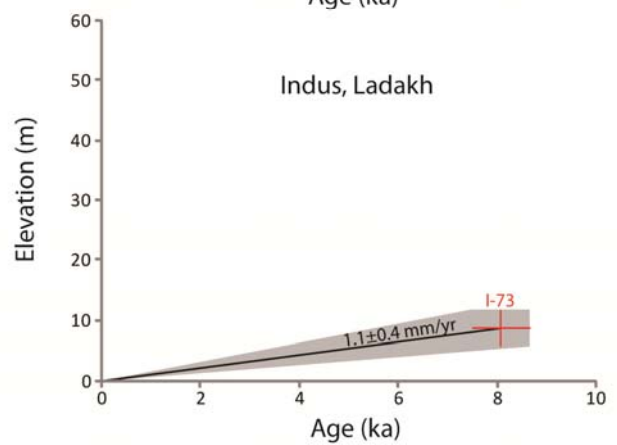
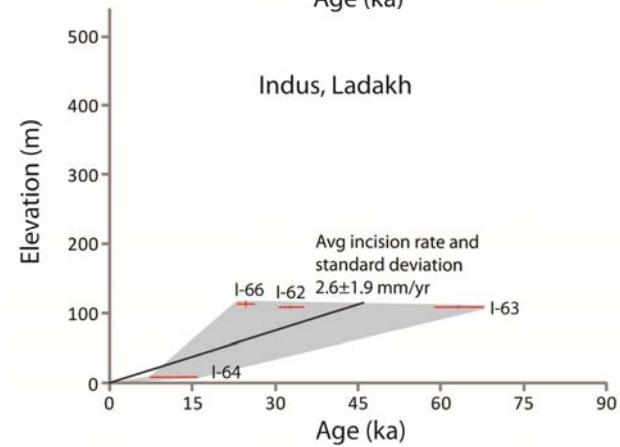
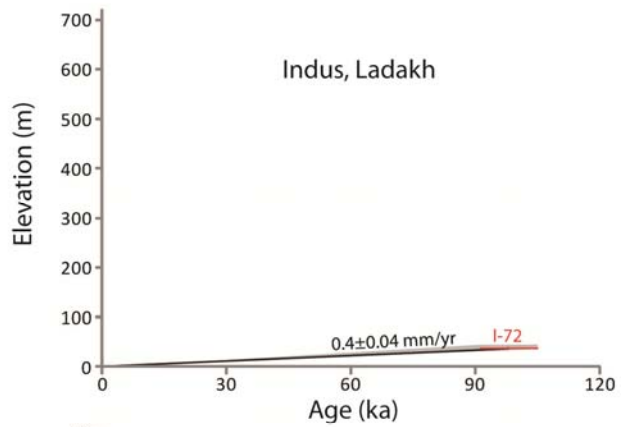
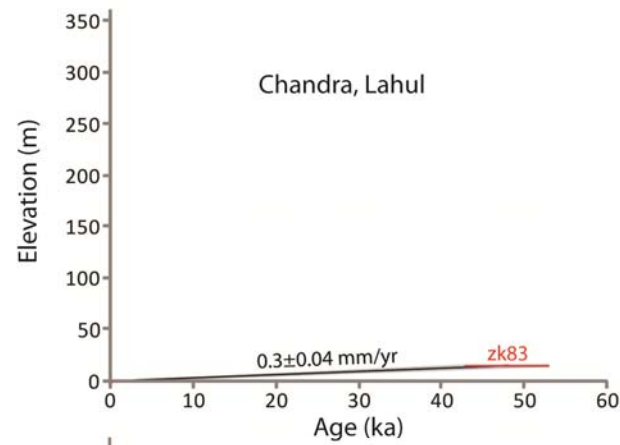
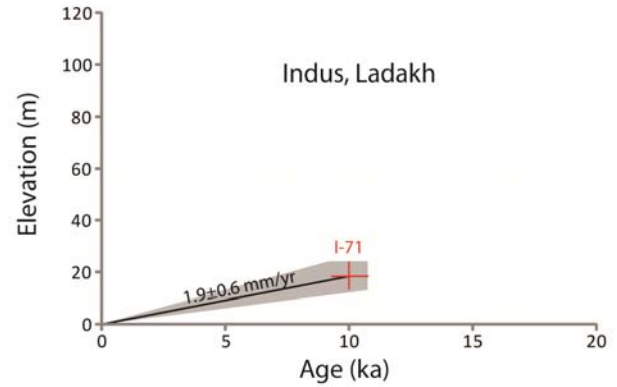
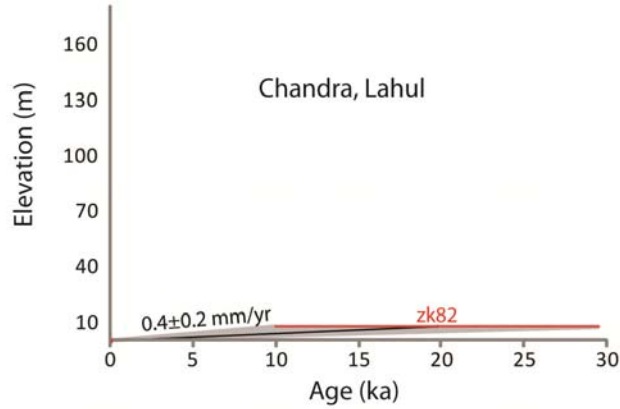
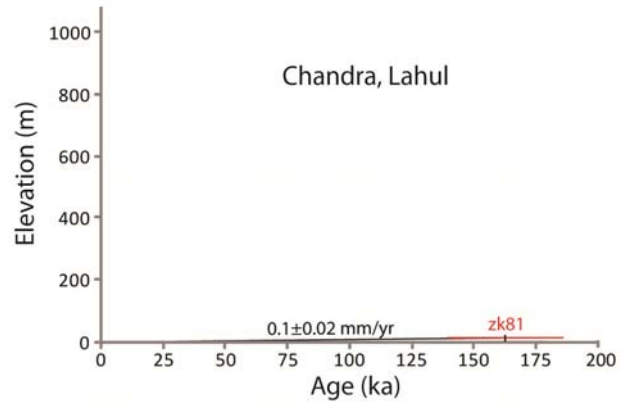
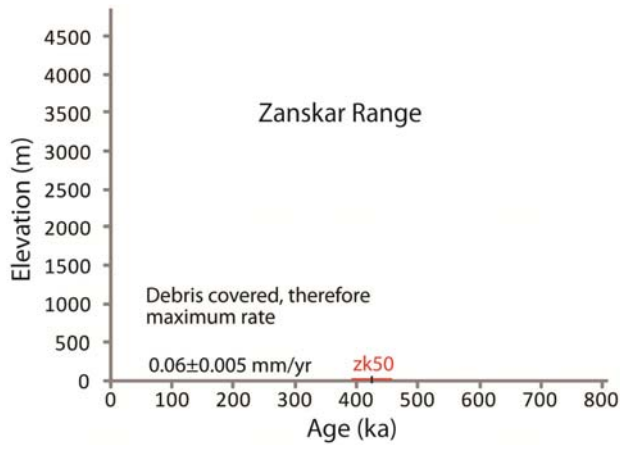
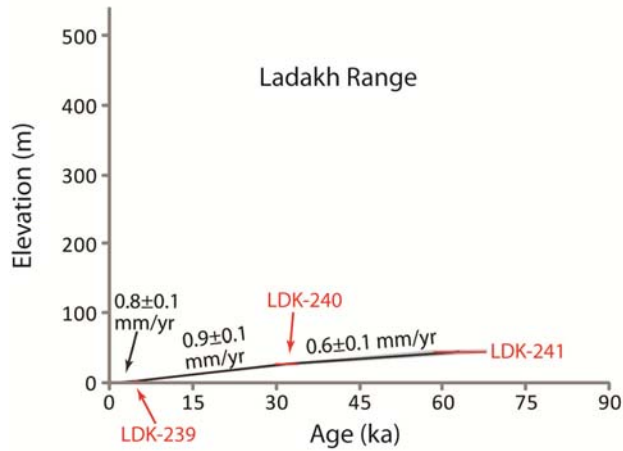
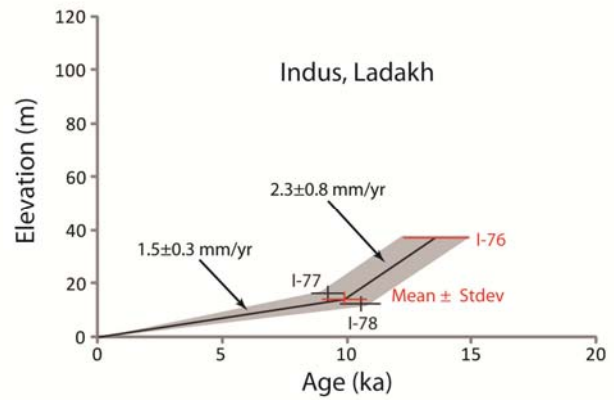
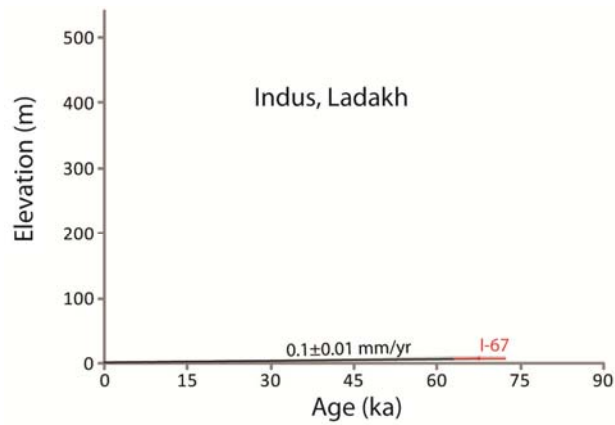


Supplementary data to Dortch et al.: “Episodic fluvial incision of rivers and rock uplift in the Himalaya and Transhimalaya” (19 pages). The supplementary data includes incision plots of strath terraces for this study (Fig. DS1) and previously published studies (Fig. DS2), details of previously published  $^{10}\text{Be}$  data and recalculated ages (Table-DS1), and previously published incision height and rate (Table-DS2). Previously published  $^{10}\text{Be}$  data and recalculated ages for alluvial fans (Table-DS3) and river terraces (Table-DS4) are also provided.

Figure-DS1: Strath terrace incision plots (this study) of the Ladakh and Lahul regions.

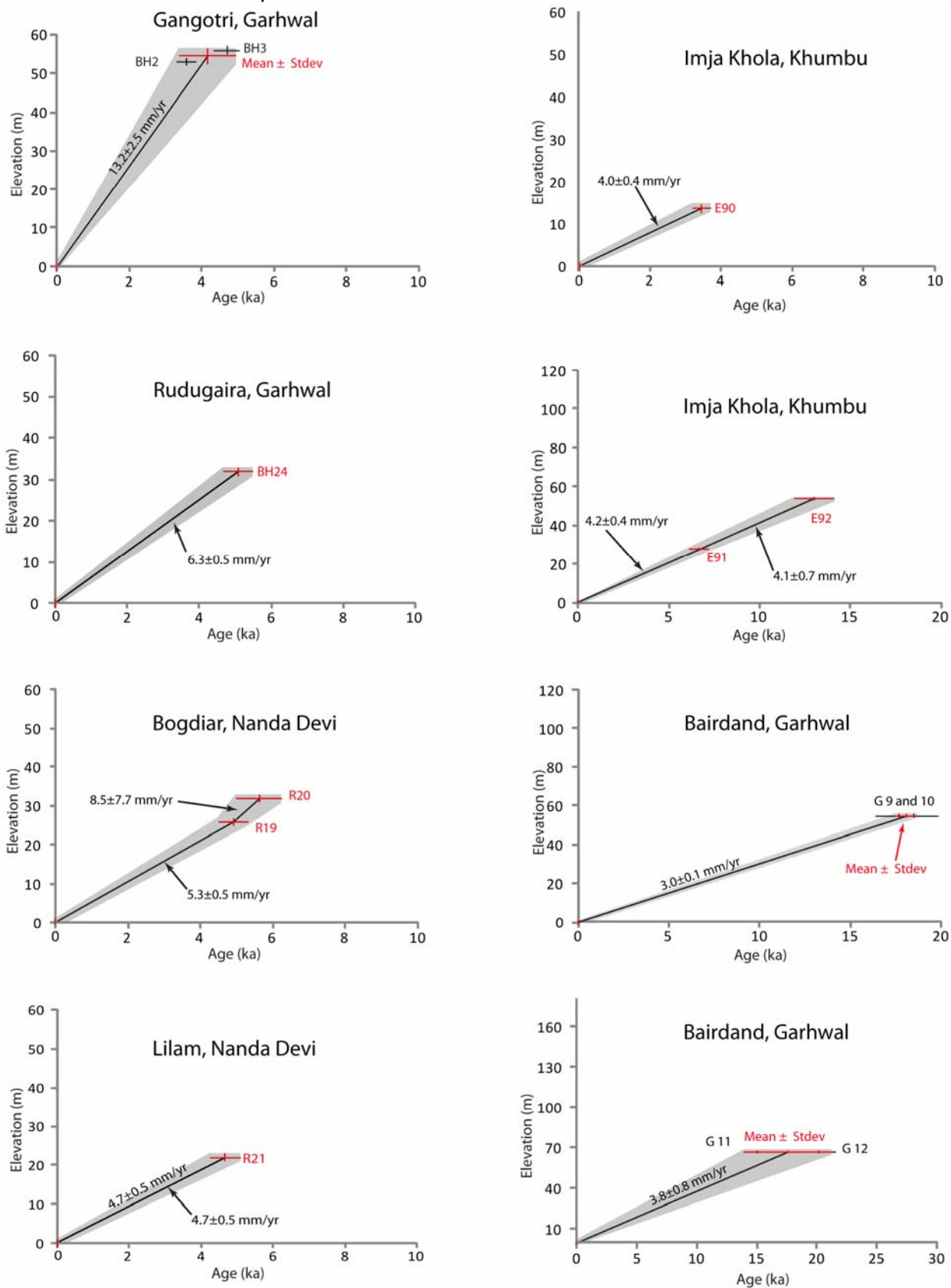


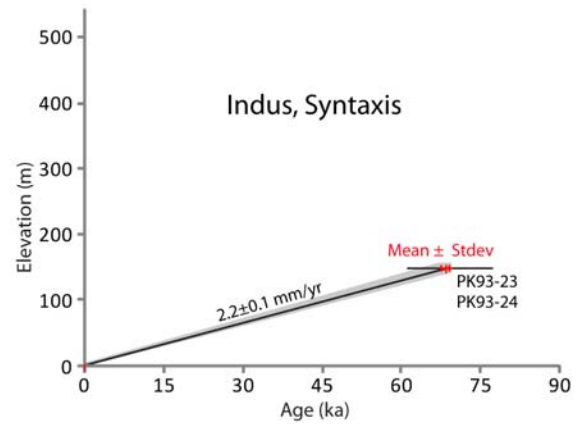
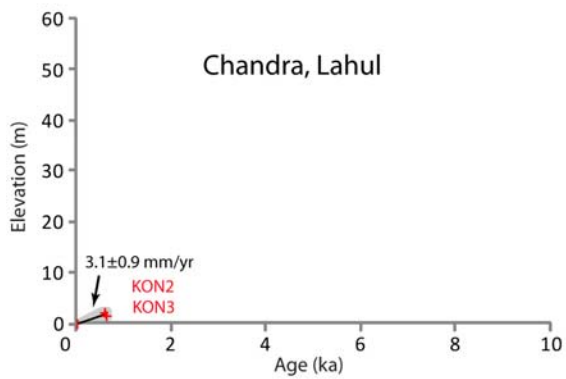
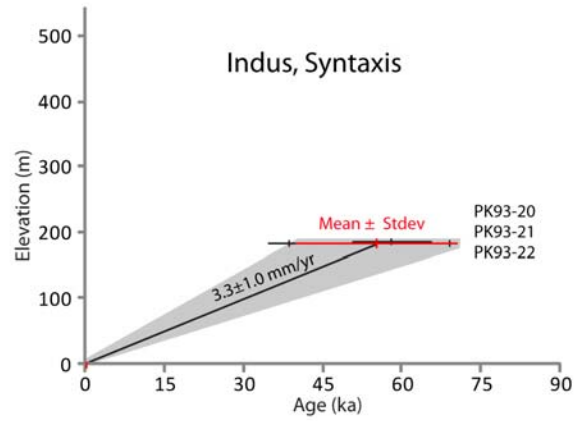
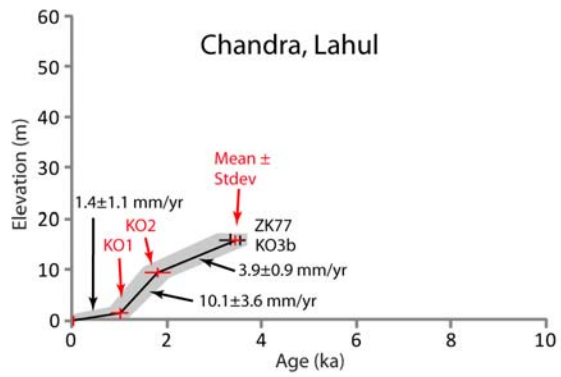
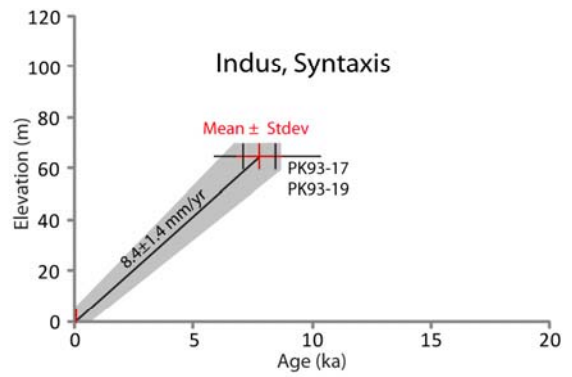
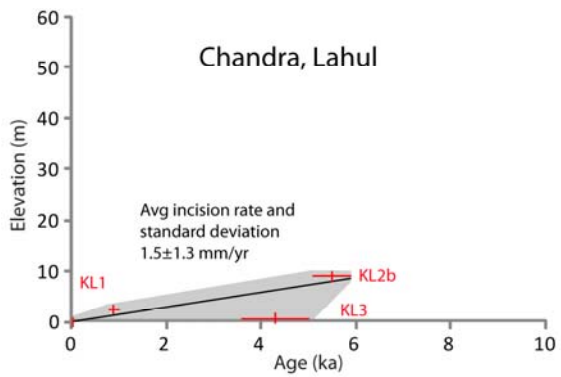
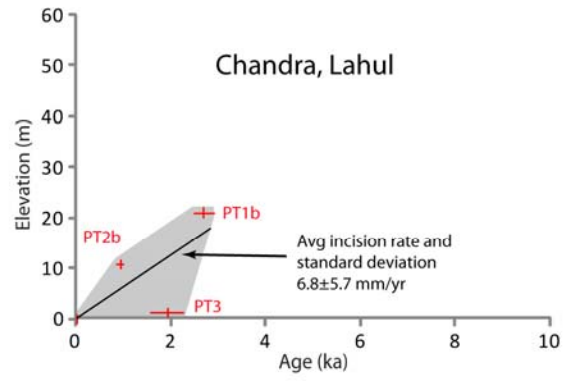
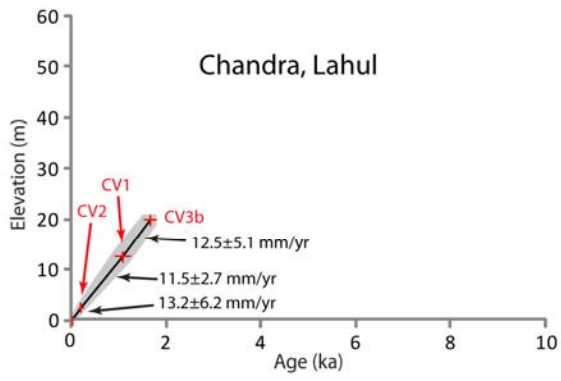


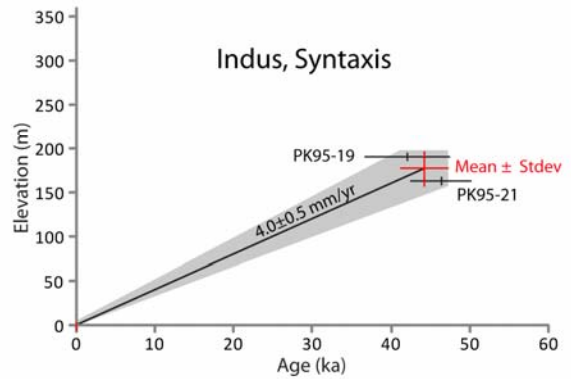
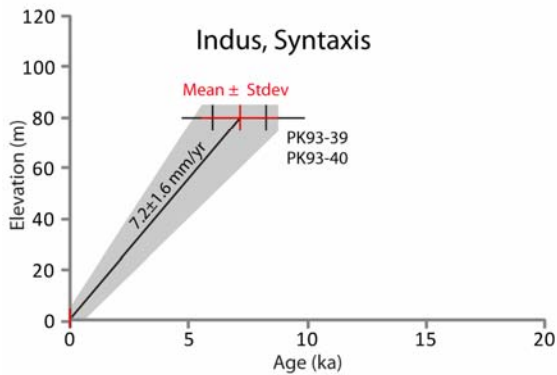
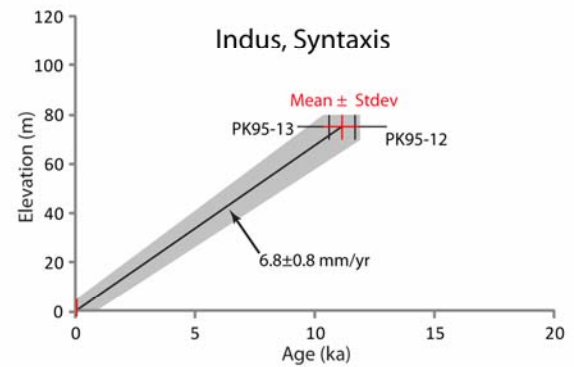
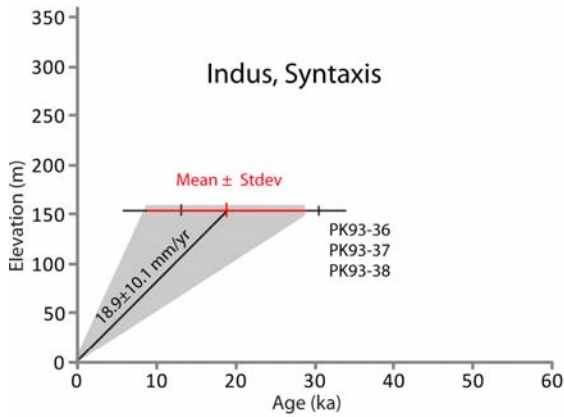
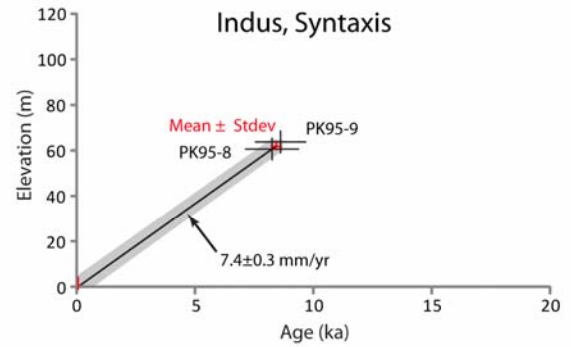
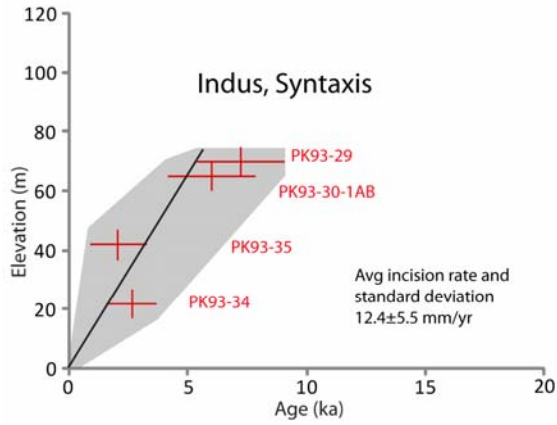
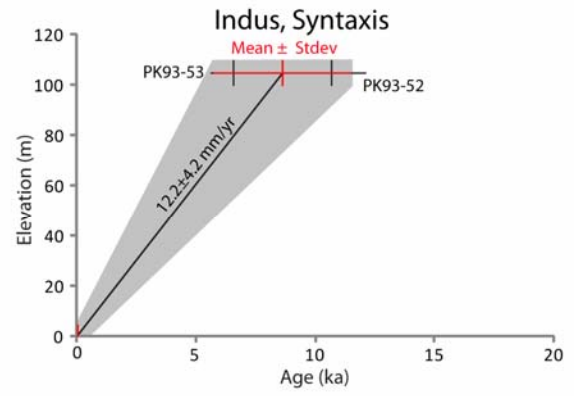
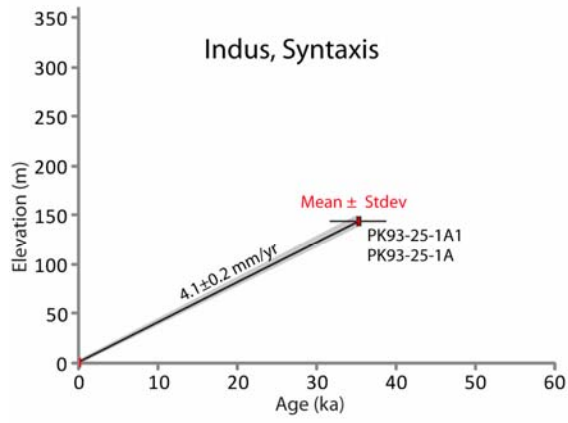


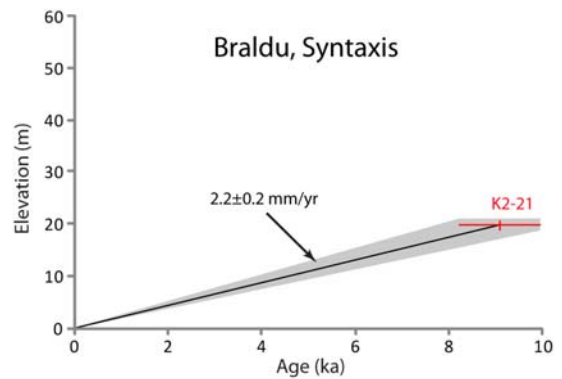
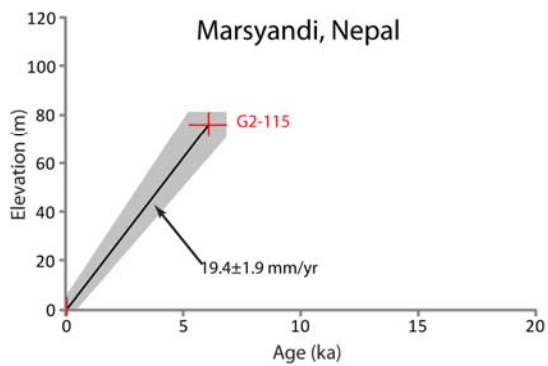
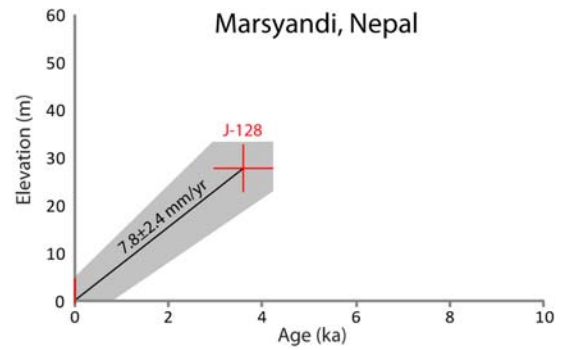
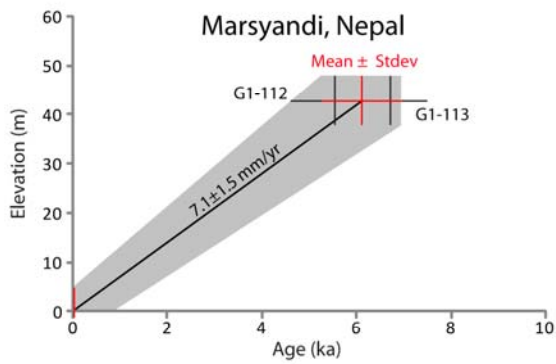
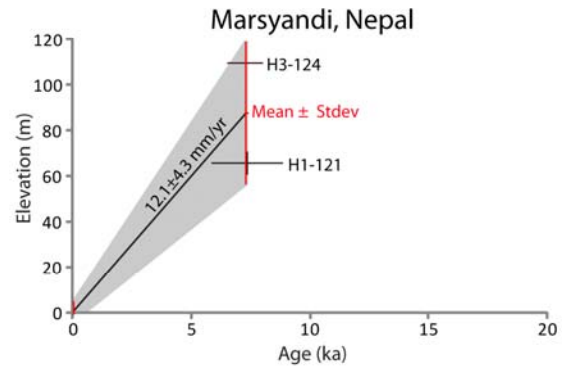
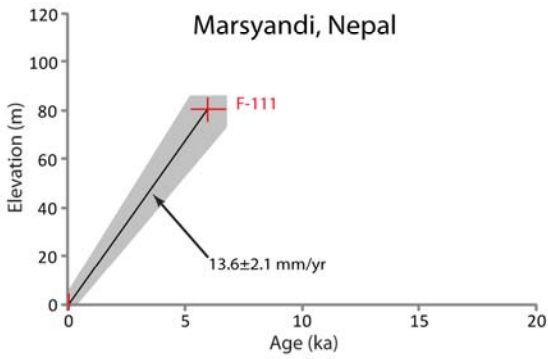
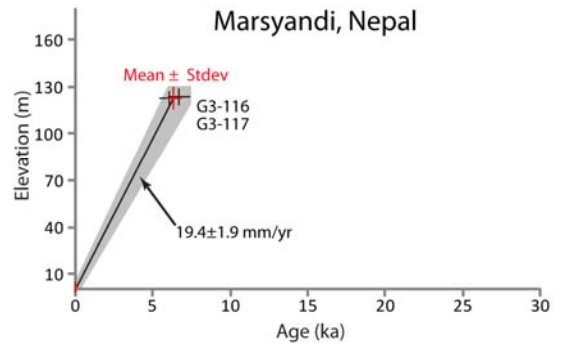
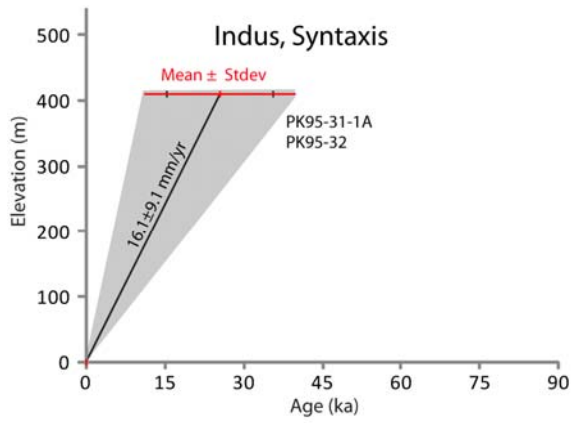
Plots of the elevation against  $^{10}\text{Be}$  age for strath terraces in the Ladakh and Lahul Himalaya (this study). Incision rates were determined using ages and averages marked by red crosses. The slope of the black line is the incision rate and the shaded areas represent  $1\sigma$  error. The scale of the graphs varies widely, but the elevation-to-age ratio in each graph remains constant at  $6 \text{ m ka}^{-1}$  keeping the slope of the black lines (incision rate) of all plots directly comparable. The red lines show the height and age of the strath terrace with the length of the lines illustrating the errors. Outlines of these graphs are used on Figure 5 to show regional incision rate variation.

Figure-DS2: Strath terrace incision plots from previously published data in the Lahul, Syntaxis, and monsoon-influenced Himalaya.

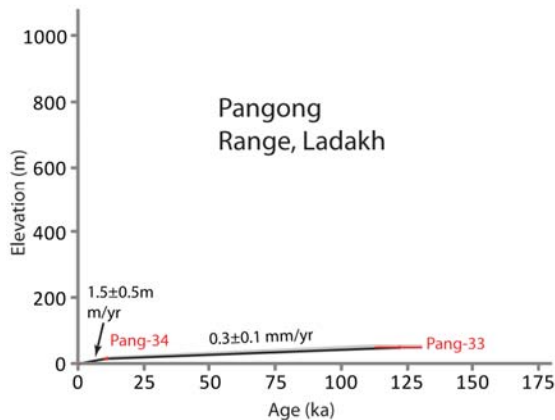
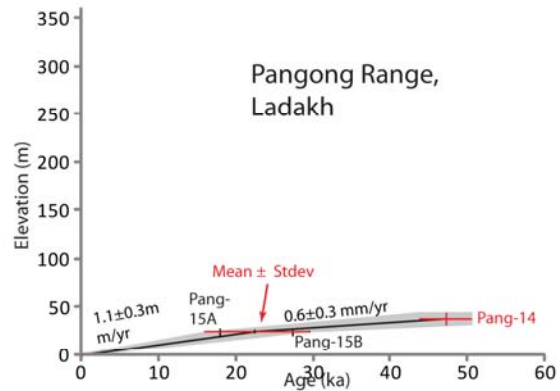
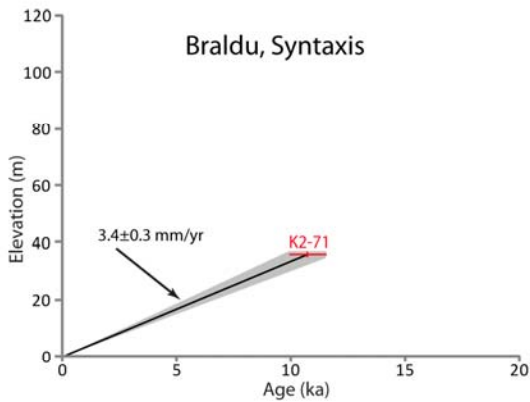
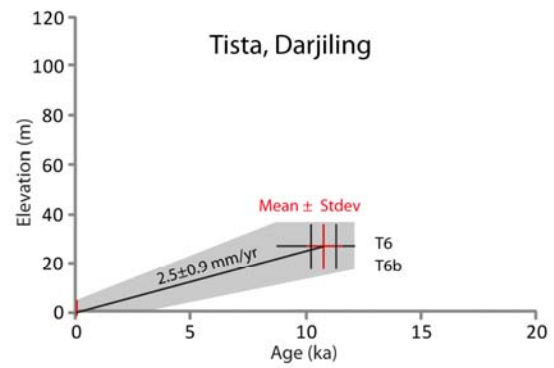
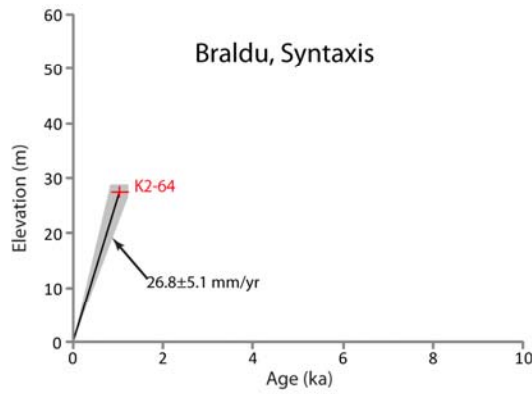
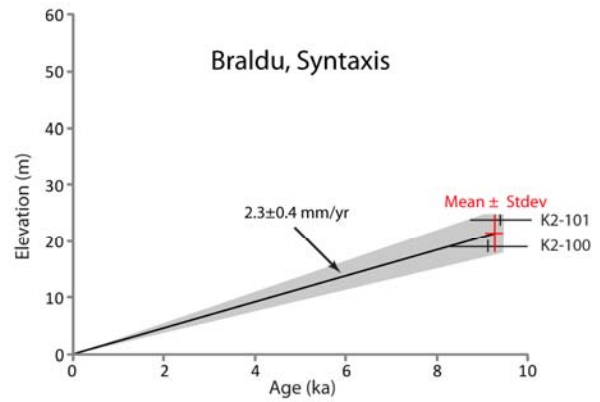
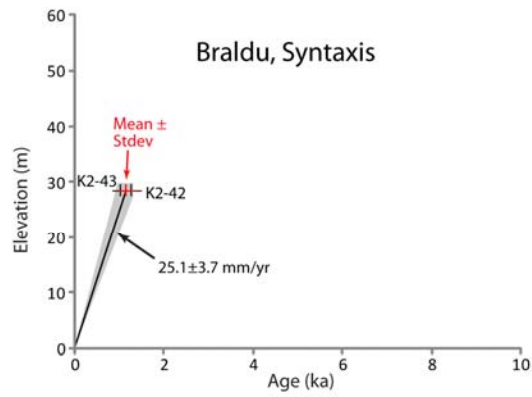












Plots of the elevation against  $^{10}\text{Be}$  age for previously published strath terraces across the Himalaya and Transhimalaya. Incision rates were determined using ages and averages marked by red crosses. The slope of the black line is the incision rate and the shaded areas represent  $1\sigma$  error. The scale of the graphs varies widely, but the elevation-to-age ratio in each graph remains constant at 6 m/ka keeping the slope of the black lines (incision rate) of all plots directly comparable. The red lines show the height and age of the strath terrace with the length of the lines illustrating the errors. Outlines of these graphs are used on Figure 5 to show regional incision rate variation.



Table-DS1: Details of previously published  $^{10}\text{Be}$  data including; location, shielding,  $^{10}\text{Be}$  concentrations and ages.

Sample Name	Strath Name	Latitude (°N)	Longitude (°E)	Elevation (m asl)	Thickness (cm)	Shielding Correction	Uncorrected		Corrected		CRONUS	PRIME
							$^{10}\text{Be}$ atoms $\text{g}^{-1} \text{SiO}_2$ ( $10^3$ )	Error +/- atoms $\text{g}^{-1} \text{SiO}_2$ ( $10^3$ )	$^{10}\text{Be}$ atoms $\text{g}^{-1} \text{SiO}_2$ ( $10^3$ )	Error +/- atoms $\text{g}^{-1} \text{SiO}_2$ ( $10^3$ )	Age std (ka) <sup>a</sup>	Age std (ka) <sup>b</sup>
BH2	Gangotri	31.000	78.930	3015	5.0	0.93	109	4	99	4	3.7±0.3	3.6±0.3
BH3	Gangotri	31.000	78.930	3021	5.0	0.93	143	5	130	5	4.8±0.4	4.7±0.4
BH24	Rudugaira	31.000	78.920	3040	5.0	0.95	159	7	144	6	5.2±0.5	5.1±0.4
R20	Bogdiar	30.200	80.230	2250	5.0	0.66	74	4	67	4	5.6±0.6	5.6±0.5
R19	Bogdiar	30.210	80.230	2315	5.0	0.77	79	4	72	4	5.0±0.5	4.9±0.4
R21	Lilam	30.120	80.250	1412	5.0	0.93	49	3	44	3	4.6±0.5	4.7±0.4
E90	Imja Khola	27.850	86.780	3781	5.0	0.92	146	5	132	5	3.5±0.3	3.4±0.3
E93	Imja Khola	27.850	86.780	3880	5.0	0.96	780	20	707	18	17.1±1.6	16.7±1.2
E92	Imja Khola	27.850	86.780	3870	5.0	0.96	605	16	549	15	13.4±1.2	13.0±0.9
E91	Imja Khola	27.850	86.780	3792	5.0	0.94	291	15	264	14	6.8±0.7	6.7±0.6
G9	Bairdand	30.297	79.058	660	5.0	0.98	119	4	108	3	17.8±1.6	18.5±1.4
G10	Bairdand	30.297	79.058	660	5.0	0.98	114	3	103	3	17.0±1.6	17.7±1.3
G11	San	30.306	79.050	653	5.0	1.00	99	4	90	3	14.6±1.4	15.1±1.2
G12	San	30.306	79.050	653	5.0	1.00	132	4	120	4	19.5±1.8	20.1±1.5
CV3b	1	32.549	77.661	3568	2.0	0.92	72	3	65	3	1.5±0.2	1.7±0.1
CV1	1	32.549	77.661	3568	2.0	0.92	20	7	42	7	1.0±0.2	1.1±0.2
CV2	1	32.549	77.661	3568	2.0	0.92	22	7	8	2	0.2±0.0	0.2±0.0
KL2b	2	32.540	77.378	3189	2.0	0.92	192	6	174	6	5.0±0.5	5.5±0.4
KL1	2	32.542	77.368	3181	2	0.92	192	6	28	3	0.8±0.1	0.9±0.1
KL3	2	32.537	77.381	3180	2.0	0.88	32	7	131	21	3.9±0.7	4.3±0.7
ZK77	3	32.418	77.230	3135	5.0	0.91	110	15	100	13	3.0±0.5	3.3±0.5
KO3b	3	32.670	77.460	3122	2.0	0.93	122	5	111	5	3.2±0.3	3.5±0.3
KO2	3	32.418	77.448	3116	3.0	0.93	37	8	55	5	1.6±0.2	1.8±0.2
KO1	3	32.417	77.457	3108	2.0	0.93	236	12	30	5	0.9±0.2	1.0±0.2
KON2	4	32.640	77.348	3135	2.0	0.91	82	8	18	2	0.5±0.1	0.6±0.1
KON3	4	32.641	77.346	3129	2.0	0.91	12	7	19	3	0.6±0.1	0.6±0.1
PT1b	5	32.467	77.548	3563	2.0	0.94	118	6	107	5	2.4±0.2	2.7±0.2
PT2b	5	32.458	77.538	3599	2.0	0.89	39	3	36	3	0.8±0.1	0.9±0.1
PT3	5	32.471	77.545	3675	2.0	0.84	33	7	74	13	1.8±0.3	1.9±0.4
PK93-20	1	35.480	75.400	2235	1.0	0.98	1299	142	1178	129	59.0±8.3	57.8±7.5
PK93-21	1	35.480	75.400	2233	2.0	0.98	857	68	777	62	39.1±4.6	38.3±4.0
PK93-22	1	35.480	75.400	2233	1.0	0.97	1532	421	1389	382	70.4±20.6	68.7±19.8
PK93-23	2	35.480	75.390	2198	3.0	0.98	1487	138	1348	125	70.6±9.1	69.1±8.0
PK93-24	2	35.480	75.390	2198	3.0	0.98	1452	88	1316	80	68.7±7.4	67.5±6.2

PK93-25-1A1	2	35.480	75.390	2195	5.0	0.98	744	53	675	48	35.6±4.0	34.9±3.4
PK93-25-1A	2	35.480	75.390	2195	5.0	0.98	754	49	684	44	36.1±3.9	35.4±3.3
PK93-17	3	35.510	75.350	2082	1.0	0.99	146	23	132	21	7.2±1.3	7.0±1.2
PK93-19	3	35.510	75.350	2082	1.3	0.99	174	38	158	34	8.6±2.0	8.4±1.9
PK93-29	4c	35.630	75.020	1850	2.5	0.98	125	31	113	28	7.3±1.9	7.2±1.8
PK93-30-1AB	4	35.630	75.020	1845	3.0	0.98	103	31	93	28	6.1±1.9	6.0±1.8
PK93-35	4b	35.630	75.020	1822	1.5	0.91	33	19	30	17	2.1±1.2	2.0±1.2
PK93-34	4a	35.630	75.020	1802	5.0	0.97	43	17	39	15	2.7±1.1	2.6±1.0
PK95-31-1A	5	35.670	74.920	2138	1.0	0.99	763	60	692	54	36.1±4.3	35.6±3.7
PK95-32	5	35.670	74.920	2138	2.0	0.99	326	28	296	25	15.5±1.9	15.2±1.7
PK95-29	6a	35.670	74.920	1729	4.0	0.96	47	18	43	16	3.1±1.2	3.0±1.2
PK95-30	6a	35.670	74.920	1728	4.0	0.96	6	10	5	9	0.4±0.7	0.4±0.6
PK93-36	6b	35.670	74.920	1883	1.0	0.98	235	130	213	118	13.3±7.4	13.0±7.3
PK93-37	6b	35.670	74.920	1883	1.0	0.98	235	20	213	18	13.3±1.6	13.0±1.4
PK93-38	6b	35.670	74.920	1882	1.0	0.98	547	50	496	45	31.0±3.9	30.5±3.5
PK93-39	7	35.710	74.750	1675	2.0	0.97	128	23	116	21	8.5±1.7	8.3±1.6
PK93-40	7	35.710	74.750	1675	0.8	0.97	94	20	85	18	6.1±1.4	6.0±1.3
PK95-19	8	35.630	75.060	2009	0.5	0.99	826	90	749	82	42.5±6.0	41.9±5.4
PK95-21	8	35.630	75.060	1981	3.0	0.99	875	43	793	39	46.9±4.7	46.3±3.9
PK95-12	9	35.780	74.630	1372	3.5	0.97	143	13	130	12	11.8±1.5	11.6±1.3
PK95-13	9	35.780	74.630	1372	1.5	0.97	132	14	120	13	10.8±1.5	10.6±1.3
PK93-52	10	35.720	74.650	1355	2.5	0.99	132	15	120	14	10.8±1.5	10.7±1.4
PK93-53	10	35.720	74.650	1355	3.0	1.00	82	11	74	10	6.6±1.1	6.6±1.0
PK95-8	11	35.720	74.630	1311	2.0	0.99	99	12	90	11	8.3±1.2	8.2±1.1
PK95-9	11	35.720	74.630	1314	1.5	0.99	104	11	94	10	8.7±1.2	8.6±1.1
F-111	F	28.401	84.409	1230	3.0	0.89	52	6	47	5	5.9±0.8	6.0±0.8
G3-116	G3	28.415	84.407	1280	2.0	0.90	63	5	57	5	6.7±0.8	6.7±0.7
G3-117	G3	28.415	84.407	1280	2.0	0.90	56	4	51	4	6.0±0.7	6.0±0.6
G2-115	G2	28.413	84.408	1230	3.0	0.80	48	6	44	5	6.1±0.9	6.0±0.8
G1-112	G1	28.413	84.408	1200	4.0	0.79	42	6	38	6	5.4±1.0	5.5±0.9
G1-113	G1	28.413	84.408	1200	4.0	0.79	51	5	46	4	6.6±0.9	6.7±0.8
H3-124	H3	28.452	84.376	1635	3.0	0.70	66	5	60	5	7.2±0.8	7.2±0.8
H1-121	H1	28.452	84.376	1590	4.0	0.77	71	14	65	13	7.4±1.6	7.4±1.5
J-128	J	28.520	84.359	1900	2.0	0.69	39	6	36	6	3.6±0.7	3.6±0.6
K2-21	Dassu	35.715	75.522	2433	3.00	0.93	221	15	200	14	9.3±1.0	9.1±0.9
K2-42	Chapok	35.732	75.665	2671	2.00	0.98	38	6	34	5	1.3±0.2	1.3±0.2
K2-43	Chapok	35.732	75.665	2671	2.00	0.92	29	5	26	5	1.1±0.2	1.0±0.2
K2-64	Pakora	35.691	75.731	2855	2.00	0.82	29	5	26	5	1.1±0.2	1.0±0.2
K2-71	Askole/ Biafo	35.671	75.861	3010	3.00	0.76	311	10	282	9	11.2±1.0	10.7±0.8

K2-100	Biafo/ Phanmah	35.65	76.033	3215	3.00	0.99	377	27	342	24	9.3±1.1	9.0±0.9
K2-101	Biafo/ Phanmah	35.65	76.033	3215	1.00	0.97	391	11	355	10	9.7±0.9	9.4±0.7
Pang-14	Ladakh	34.024	78.195	4037	3.0	0.81	2400	58	2176	52	49.2±4.5	47.2±3.4
Pang-15A	Ladakh	34.024	78.197	4016	3.0	0.91	1019	56	923	51	18.7±1.9	17.9±1.6
Pang-15B	Ladakh	34.024	78.197	4016	3.0	0.91	1554	69	1409	62	28.5±2.8	27.4±2.2
Pang-33	Ladakh	34.032	78.209	4065	4.0	0.94	7009	158	6355	144	125.4±11.6	121.6±8.8
Pang-34	Ladakh	34.033	78.210	4028	3.0	0.93	611	26	554	23	10.9±1.1	10.5±0.8

Notes-

Assume zero erosion rate, standard pressure, and  $\rho=2.7 \text{ g/cm}^3$  for all samples

<sup>a</sup>CRONUS ages calculated using version 2.2 and Lal(1991)/ Stone (2000) scaling scheme

<sup>b</sup>PRIME Laboratory ages calculated using scaling model of Stone ((2000), a sea-level low-latitude production rate of  $4.5\pm0.3 \text{ }^{10}\text{Be}$  atoms/gram of quartz/year and a <sup>10</sup>Be half life of 1.36 Ma. The isotope measurements were calibrated using KN Standard Be 0152 with a <sup>10</sup>Be/<sup>9</sup>Be ratio of  $8558 \times 10^{-15}$  atoms (c.f. Nishiizumi *et al.* 2007).

Table-DS2: Details of previously published strath terraces including; author, TRMM precipitation, incision height, age, and incision rate

Author	Sample Name	Strath Name	Location	Region	TRMM Precipitation (m/yr)	Incision height (m) <sup>a</sup>	Incision error (m)	Age std (ka) <sup>b</sup>	Incision Rate (mm/yr)
Barnard et al. 2004a	BH2	Gangotri	Garhwal	Monsoon-influenced	1.0-1.5	53.0	1.0	3.6±0.3	13.2±2.5
Barnard et al. 2004a	BH3	Gangotri	Garhwal	Monsoon-influenced	1.0-1.5	56.0	1.0	4.7±0.4	
Barnard et al. 2004a	BH24	Rudugaira	Garhwal	Monsoon-influenced	1.0-1.5	32.0	1.0	5.1±0.4	6.3±0.5
Barnard et al. 2004b	R20	Bogdiar	Nanda Devi	Monsoon-influenced	1.0-1.5	6.0	1.0	5.6±0.5	8.5±7.7
Barnard et al. 2004b	R19	Bogdiar	Nanda Devi	Monsoon-influenced	1.0-1.5	26.0	1.0	4.9±0.4	5.3±0.5
Barnard et al. 2004b	R21	Lilam	Nanda Devi	Monsoon-influenced	1.0-1.5	22.0	1.0	4.7±0.4	4.7±0.5
Barnard et al. 2006	E90	Imja Khola	Khumbu	Monsoon-influenced	1.0-1.5	13.8	1.0	3.4±0.3	4.0±0.4
Barnard et al. 2006	E93	Imja Khola	Khumbu	Monsoon-influenced	1.0-1.5	0.7	1.0	16.7±1.2	Error >100%
Barnard et al. 2006	E92	Imja Khola	Khumbu	Monsoon-influenced	1.0-1.5	26.0	1.0	13.0±0.9	4.1±0.7
Barnard et al. 2006	E91	Imja Khola	Khumbu	Monsoon-influenced	1.0-1.5	28.0	1.0	6.7±0.6	4.2±0.4
Barnard et al. 2001	G9	Bairdand	Garhwal	Monsoon-influenced	1.0-1.5	55.0	1.0	18.5±1.4	3.0±0.1
Barnard et al. 2001	G10	Bairdand	Garhwal	Monsoon-influenced	1.0-1.5	55.0	1.0	17.7±1.3	
Barnard et al. 2001	G11	San	Garhwal	Monsoon-influenced	1.0-1.5	67.0	1.0	15.1±1.2	3.8±0.8
Barnard et al. 2001	G12	San	Garhwal	Monsoon-influenced	1.0-1.5	67.0	1.0	20.1±1.5	
Adams et al. 2009	CV3b	1	Chandra	Lahul	0.5-1.0	7.3	1.0	1.7±0.1	12.5±5.1
Adams et al. 2009	CV1	1	Chandra	Lahul	0.5-1.0	10.0	1.0	1.1±0.2	11.5±2.7
Adams et al. 2009	CV2	1	Chandra	Lahul	0.5-1.0	2.5	1.0	0.2±0.0	13.2±6.2
Adams et al. 2009	KL2b	2	Chandra	Lahul	0.5-1.0	6.6	1.0	5.5±0.4	1.5±1.3
Adams et al. 2009	KL1	2	Chandra	Lahul	0.5-1.0	1.7	1.0	0.9±0.1	
Adams et al. 2009	KL3	2	Chandra	Lahul	0.5-1.0	0.7	1.0	4.3±0.7	3.9±0.9
Adams et al. 2009	ZK77	3	Chandra	Lahul	0.5-1.0	0.2	1.0	3.3±0.5	
Adams et al. 2009	KO3b	3	Chandra	Lahul	0.5-1.0	6.4	1.0	3.5±0.3	10.1±3.6
Adams et al. 2009	KO2	3	Chandra	Lahul	0.5-1.0	8.1	1.0	1.8±0.2	
Adams et al. 2009	KO1	3	Chandra	Lahul	0.5-1.0	1.4	1.0	1.0±0.2	1.4±1.1
Adams et al. 2009	KON2	4	Chandra	Lahul	0.5-1.0	0.7	1.0	0.6±0.1	3.1±0.9
Adams et al. 2009	KON3	4	Chandra	Lahul	0.5-1.0	14.9	1.0	0.6±0.1	
Adams et al. 2009	PT1b	5	Chandra	Lahul	0.5-1.0	10.3	1.0	2.7±0.2	6.8±5.7
Adams et al. 2009	PT2b	5	Chandra	Lahul	0.5-1.0	9.7	1.0	0.9±0.1	
Adams et al. 2009	PT3	5	Chandra	Lahul	0.5-1.0	1.1	1.0	1.9±0.4	
Leland et al. 1998	PK93-20	1	Indus	Syntaxis	0.25-0.5	185.0	7.1	57.8±7.5	3.3±1.0
Leland et al. 1998	PK93-21	1	Indus	Syntaxis	0.25-0.5	183.0	7.1	38.3±4.0	
Leland et al. 1998	PK93-22	1	Indus	Syntaxis	0.25-0.5	183.0	7.1	68.7±19.8	2.2±0.1
Leland et al. 1998	PK93-23	2	Indus	Syntaxis	0.25-0.5	148.0	7.1	69.1±8.0	

Leland et al. 1998	PK93-24	2	Indus	Syntaxis	0.25-0.5	148.0	7.1	67.5±6.2	
Leland et al. 1998	PK93-25-1A1	2	Indus	Syntaxis	0.25-0.5	145.0	7.1	34.9±3.4	4.1±0.2
Leland et al. 1998	PK93-25-1A	2	Indus	Syntaxis	0.25-0.5	145.0	7.1	35.4±3.3	
Leland et al. 1998	PK93-17	3	Indus	Syntaxis	0.25-0.5	65.0	7.1	7.0±1.2	8.4±1.4
Leland et al. 1998	PK93-19	3	Indus	Syntaxis	0.25-0.5	65.0	7.1	8.4±1.9	
Leland et al. 1998	PK93-29	4c	Indus	Syntaxis	0.25-0.5	5.0	7.1	7.2±1.8	
Leland et al. 1998	PK93-30-1AB	4	Indus	Syntaxis	0.25-0.5	23.0	7.1	6.0±1.8	12.4±5.5
Leland et al. 1998	PK93-35	4b	Indus	Syntaxis	0.25-0.5	20.0	7.1	2.0±1.2	
Leland et al. 1998	PK93-34	4a	Indus	Syntaxis	0.25-0.5	22.0	7.1	2.6±1.0	
Leland et al. 1998	PK95-31-1A	5	Indus	Syntaxis	0.25-0.5	410.0	7.1	35.6±3.7	16.1±9.1
Leland et al. 1998	PK95-32	5	Indus	Syntaxis	0.25-0.5	410.0	7.1	15.2±1.7	
Leland et al. 1998	PK95-29	6a	Indus	Syntaxis	0.25-0.5	2.0	7.1	3.0±1.2	Error >100%
Leland et al. 1998	PK95-30	6a	Indus	Syntaxis	0.25-0.5	1.0	7.1	0.4±0.6	Error >100%
Leland et al. 1998	PK93-36	6b	Indus	Syntaxis	0.25-0.5	155.0	7.1	13.0±7.3	
Leland et al. 1998	PK93-37	6b	Indus	Syntaxis	0.25-0.5	155.0	7.1	13.0±1.4	18.9±10.1
Leland et al. 1998	PK93-38	6b	Indus	Syntaxis	0.25-0.5	154.0	7.1	30.5±3.5	
Leland et al. 1998	PK93-39	7	Indus	Syntaxis	0.5-1.0	80.0	7.1	8.3±1.6	7.2±1.6
Leland et al. 1998	PK93-40	7	Indus	Syntaxis	0.5-1.0	80.0	7.1	6.0±1.3	
Leland et al. 1998	PK95-19	8	Indus	Syntaxis	0.25-0.5	28.0	7.1	41.9±5.4	4.0±0.5
Leland et al. 1998	PK95-21	8	Indus	Syntaxis	0.25-0.5	164.0	7.1	46.3±3.9	
Leland et al. 1998	PK95-12	9	Indus	Syntaxis	0.5-1.0	75.0	7.1	11.6±1.3	6.8±0.8
Leland et al. 1998	PK95-13	9	Indus	Syntaxis	0.5-1.0	75.0	7.1	10.6±1.3	
Leland et al. 1998	PK93-52	10	Indus	Syntaxis	0.5-1.0	105.0	7.1	10.7±1.4	12.2±4.2
Leland et al. 1998	PK93-53	10	Indus	Syntaxis	0.5-1.0	105.0	7.1	6.6±1.0	
Leland et al. 1998	PK95-8	11	Indus	Syntaxis	0.25-0.5	61.0	7.1	8.2±1.1	7.4±0.3
Leland et al. 1998	PK95-9	11	Indus	Syntaxis	0.25-0.5	64.0	7.1	8.6±1.1	
Pratt et al. 2002	F-111	F	Marsyandi	Monsoon-influenced	1.5-2.0	81.0	7.1	6.0±0.8	13.6±2.1
Pratt et al. 2002	G3-116	G3	Marsyandi	Monsoon-influenced	1.5-2.0	124.0	7.1	6.7±0.7	19.4±1.9
Pratt et al. 2002	G3-117	G3	Marsyandi	Monsoon-influenced	1.5-2.0	123.0	7.1	6.0±0.6	
Pratt et al. 2002	G2-115	G2	Marsyandi	Monsoon-influenced	1.5-2.0	76.0	7.1	6.0±0.8	19.4±1.9
Pratt et al. 2002	G1-112	G1	Marsyandi	Monsoon-influenced	1.5-2.0	43.0	7.1	5.5±0.9	7.1±1.5
Pratt et al. 2002	G1-113	G1	Marsyandi	Monsoon-influenced	1.5-2.0	43.0	7.1	6.7±0.8	
Pratt et al. 2002	H3-124	H3	Marsyandi	Monsoon-influenced	1.5-2.0	44.0	7.1	7.2±0.8	
Pratt et al. 2002	H1-121	H1	Marsyandi	Monsoon-influenced	1.5-2.0	66.0	7.1	7.4±1.5	12.1±4.3
Pratt et al. 2002	J-128	J	Marsyandi	Monsoon-influenced	1.5-2.0	28.0	7.1	3.6±0.6	7.8±2.4
Seong et al. 2007	K2-21	Dassu	Braldu	Syntaxis	0.25-0.5	19.8	1.0	9.1±0.9	2.2±0.2

Seong et al. 2007	K2-42	Chapok	Braldu	Syntaxis	0.25-0.5	28.7	1.0	1.3±0.2	25.1±3.7
Seong et al. 2007	K2-43	Chapok	Braldu	Syntaxis	0.25-0.5	28.7	1.0	1.0±0.2	
Seong et al. 2007	K2-64	Pakora	Braldu	Syntaxis	0.25-0.5	27.8	1.0	1.0±0.2	26.8±5.1
Seong et al. 2007	K2-71	Askole/ Biafo	Braldu	Syntaxis	0.25-0.5	36.1	1.0	10.7±0.8	3.4±0.3
Seong et al. 2007	K2-100	Biafo/ Phanmah	Braldu	Syntaxis	0.25-0.5	19.2	1.0	9.0±0.9	2.3±0.4
Seong et al. 2007	K2-101	Biafo/ Phanmah	Braldu	Syntaxis	0.25-0.5	24.0	1.0	9.4±0.7	
Dortch et al. 2011	Pang-14	Ladakh	Tangtse	Ladakh	0.02-0.25	13.4	6.4	47.2±3.4	0.6±0.3
Dortch et al. 2011	Pang-15A	Ladakh	Tangtse	Ladakh	0.02-0.25	24.6	4.6	17.9±1.6	1.1±0.3
Dortch et al. 2011	Pang-15B	Ladakh	Tangtse	Ladakh	0.02-0.25	24.6	4.6	27.4±2.2	
Dortch et al. 2011	Pang-33	Ladakh	Tangtse	Ladakh	0.02-0.25	37.0	7.1	121.6±8.8	0.3±0.1
Dortch et al. 2011	Pang-34	Ladakh	Tangtse	Ladakh	0.02-0.25	15.5	5.0	10.5±0.8	1.5±0.5
Mukul et al. 2007 <sup>c</sup>	T6	T6	Tista	Monsoon-influenced	1.5-2.0	27.0	9.4	11.3±1.3	2.5±0.9
Mukul et al. 2007 <sup>c</sup>	T6b	T6b	Tista	Monsoon-influenced	1.5-2.0	27.0	9.4	10.2±1.5	

#### Notes:

<sup>a</sup> Incision height is the distance between <sup>10</sup>Be sample locations or contemporary river.

<sup>b</sup> PRIME Laboratory ages using the scaling scheme of Stone (2000), a sea-level low-latitude production rate of 4.5±0.3 <sup>10</sup>Be atoms/gram of quartz/year and a <sup>10</sup>Be half life of 1.36 Ma. The isotope measurements were calibrated using KN Standard Be 0152 with a <sup>10</sup>Be/<sup>9</sup>Be ratio of 8558E-15 atoms (c.f. Nishiizumi *et al.* 2007).

<sup>c</sup> Optically stimulated ages

#### References

Adams, B., Dietsch C., Owen, L.A., Caffee, M.W., Spotila, J., & Haneberg, W.C., 2009. Exhumation and incision history of the Lahul Himalaya, northern India, based on (U–Th)/He thermochronology and terrestrial cosmogenic nuclide methods. *Geomorphology*, DOI 10.1016/j.geomorph.2008.12.017

Barnard, P.L., Owen, L.A., Sharma, M.C., & Finkel., R.C., 2004a. Late Quaternary landscape evolution of a monsoon-influenced high Himalayan valley, Gori Ganga, Nanda Devi, NE Garhwal. *Geomorphology*, 61, 91–110.

Barnard, P.L., Owen, L.A., & Finkel., R.C., 2004b. Style and timing of glacial and paraglacial sedimentation in a monsoon-influenced high Himalayan environment, the upper Bhagirathi Valley, Garhwal Himalaya. *Sedimentary Geology*, 165, 199–221.

Barnard, P.L., Owen, L.A., & Finkel, R.C., 2006. Quaternary fans and terraces in the Khumbu Himal south of Mount Everest: their characteristics, age and formation. *Journal of Geological Society of London*, 163, 383–399.

Dortch .J.M., Owen, L.A., Caffee, M.W., & Kamp, U 2011. Catastrophic partial drainage of Pangpong Tso, northern India and Tibet. *Geomorphology*, in press, doi:10.1016/j.geomorph.2010.08.017

Leland, J., Reid, M.R., Burbank, D.W., Finkel, R., & Caffee, M.W., 1998. Incision and differential bedrock uplift along the Indus River near Nanga Parbat, Pakistan Himalaya, from  $^{10}\text{Be}$  and  $^{26}\text{Al}$  exposure age dating of bedrock straths. *Earth and Planetary Science Letters*, 154, 93–107.

Mukul, M., Jaiswal, M., & Singhvi, A.K., 2007. Timing of recent out-of-sequence active deformation in the frontal Himalayan wedge: insights from the Darjiling sub-Himalaya, India. *Geology*, 35, 999–1002.

Pratt, B., Burbank, D.W., Heimsath, A., & Ojha, T., 2002. Impulsive alluviation during early Holocene strengthened Monsoons, central Nepal Himalaya. *Geology*, 30, 911–914.

Seong, Y.B., Owen, L.A., Bishop, M.P., Bush, A., Clendon, P., Copland, L., Finkel, R., Kamp, U., & Shroder Jr, J.F., 2007. Quaternary glacial history of the Central Karakoram. *Quaternary Science Reviews*, 26, 3384–3405.



Tbale-DS3: Details of previously published fan <sup>10</sup>Be data including; location, shielding, <sup>10</sup>Be concentration and age.

Author	Sample Name	Fan name	Latitude (°N)	Longitude (°E)	Elevation (m asl)	Thickness (cm)	Shielding Correction	Uncorrected		Corrected		CRONUS	PRIME	Average age +/- stdev (ka)
								<sup>10</sup> Be atoms g <sup>-1</sup> SiO <sub>2</sub>	Error +/- atoms g <sup>-1</sup> SiO <sub>2</sub>	<sup>10</sup> Be atoms g <sup>-1</sup> SiO <sub>2</sub>	Error +/- atoms g <sup>-1</sup> SiO <sub>2</sub>	Age std (ka) <sup>a</sup>	Age std (ka) <sup>b</sup>	
Barnard et al. 2006	E107	Yaral	27.85	86.8	4059	5	0.98	7.29E+05	2.10E+04	6.61E+05	1.90E+04	14.3±1.3	13.9±1.0	11.6±3.3
Barnard et al. 2006	E108	Yaral	27.85	86.8	4033	5	0.98	4.79E+05	4.50E+04	4.34E+05	4.08E+04	9.5±1.2	9.2±1.1	
Barnard et al. 2006	E115	Khumbu	27.86	86.79	3956	5	0.98	8.59E+05	2.40E+04	7.79E+05	2.18E+04	17.8±1.6	17.3±1.3	73.0±65.9
Barnard et al. 2006	E116	Khumbu	27.86	86.79	4028	5	0.98	7.28E+06	1.69E+05	6.60E+06	1.53E+05	150.1±13.9	145.7±10.7	
Barnard et al. 2006	E117	Khumbu	27.86	86.79	3941	5	0.98	2.74E+06	5.40E+04	2.48E+06	4.90E+04	57.8±5.2	56.0±4.0	
Barnard et al. 2004b	BH9	Bhuj kharak Kedar	30.96	78.94	3896	5	0.93	1.03E+05	1.40E+04	9.34E+04	1.27E+04	2.1±0.3	2.1±0.3	
Barnard et al. 2004b	BH16	kharak	30.94	78.95	4314	5	0.97	4.45E+05	1.00E+04	4.03E+05	9.07E+03	7.2±0.6	7.0±0.5	1.9±1.3
Barnard et al. 2004b	BH21	Rudugaira	31	78.92	3015	5	0.95	1.72E+05	6.00E+03	1.56E+05	5.44E+03	5.7±0.5	5.6±0.4	
Barnard et al. 2004b	BH33	Gaumukh	30.95	79.06	4140	5	0.97	2.14E+05	9.00E+03	1.94E+05	8.16E+03	3.8±0.4	3.7±0.3	
Barnard et al. 2004b	BH34	Gaumukh	30.95	79.06	4145	5	0.97	1.15E+05	8.00E+03	1.04E+05	7.25E+03	2.0±0.2	2.0±0.2	
Barnard et al. 2004b	BH38	Gaumukh	30.95	79.06	3857	5	0.97	4.00E+04	8.00E+03	3.63E+04	7.25E+03	0.8±0.2	0.8±0.2	0.9±0.3
Barnard et al. 2004b	BH39	Gaumukh	30.95	79.06	3863	5	0.97	5.10E+04	8.00E+03	4.62E+04	7.25E+03	1.0±0.2	1.0±0.2	
Barnard et al. 2004b	R2	Rilkot	30.31	80.21	3070	5	0.96	3.20E+04	2.00E+03	2.90E+04	1.81E+03	1.0±0.1	1.0±0.1	
Barnard et al. 2004b	R3	Rilkot	30.31	80.21	3196	5	0.96	2.00E+04	2.00E+03	1.81E+04	1.81E+03	0.6±0.1	0.6±0.1	
Barnard et al. 2004b	R4	Rilkot	30.31	80.21	3169	5	0.96	3.60E+04	4.00E+03	3.26E+04	3.63E+03	1.1±0.2	1.1±0.1	

Notes-

Assume zero erosion rate, standard pressure, and  $\rho=2.7$  g/cm<sup>3</sup> for all samples

<sup>a</sup>CRONUS ages calculated using version 2.2 and Lal(1991)/ Stone (2000) scaling scheme

<sup>b</sup>PRIME Laboratory ages calculated using scaling model of Stone (2000) scaling scheme

References

Barnard, P.L., Owen, L.A., Sharma, M.C., & Finkel., R.C., 2004a. Late Quaternary landscape evolution of a monsoon-influenced high Himalayan valley, Gori Ganga, Nanda Devi, NE Garhwal. *Geomorphology*, 61, 91–110.

Barnard, P.L., Owen, L.A., & Finkel., R.C., 2004b. Style and timing of glacial and paraglacial sedimentation in a monsoon-influenced high Himalayan environment, the upper Bhagirathi Valley, Garhwal Himalaya. *Sedimentary Geology*, 165, 199–221.

Barnard, P.L., Owen, L.A., & Finkel, R.C., 2006. Quaternary fans and terraces in the Khumbu Himal south of Mount Everest: their characteristics, age and formation. *Journal of Geological Society of London*, 163, 383–399.

Table-DS4: Details of previously published aggradational terrace  $^{10}\text{Be}$  data including; location, shielding,  $^{10}\text{Be}$  concentration and age.

Author	Sample Name	Terrace name	Latitude (°N)	Longitude (°E)	Elevation (m asl)	Thickness (cm)	Shielding Correction	Uncorrected		Corrected		CRONUS	PRIME	Average age +/- stdev (ka)
								$^{10}\text{Be}$ atoms $\text{g}^{-1}$ $\text{SiO}_2$	Error +/- atoms $\text{g}^{-1}$ $\text{SiO}_2$	$^{10}\text{Be}$ atoms $\text{g}^{-1}$ $\text{SiO}_2$	Error +/- atoms $\text{g}^{-1}$ $\text{SiO}_2$	Age std (ka) <sup>a</sup>	Age std (ka) <sup>b</sup>	
Barnard et al. 2006	E12	Orsho-3	27.87	86.81	3971	5	0.98	7.34E+05	1.80E+04	6.65E+05	1.63E+04	15.1±1.4	14.6±1.0	
Barnard et al. 2006	E13	Orsho-3	27.87	86.81	3998	5	0.98	5.15E+05	1.30E+04	4.67E+05	1.18E+04	10.4±0.9	10.1±0.7	11.8±2.5
Barnard et al. 2006	E14	Orsho-3	27.87	86.81	3998	5	0.98	5.37E+05	1.90E+04	4.87E+05	1.72E+04	10.9±1.0	10.5±0.8	
Barnard et al. 2006	E15	Orsho-2	27.87	86.81	4009	5	0.98	6.37E+05	1.60E+04	5.78E+05	1.45E+04	12.8±1.2	12.4±0.9	
Barnard et al. 2006	E16	Orsho-2	27.87	86.81	4126	5	0.98	2.57E+05	7.00E+03	2.33E+05	6.35E+03	4.9±0.4	4.7±0.3	
Barnard et al. 2006	E17	Orsho-2	27.87	86.81	4159	5	0.98	2.09E+06	8.80E+04	1.89E+06	7.98E+04	39.4±3.8	38.0±3.0	Error > 100%
Barnard et al. 2006	E23	Orsho-2	27.88	86.81	4140	5	0.98	2.07E+05	7.00E+03	1.88E+05	6.35E+03	3.9±0.4	3.8±0.3	
Barnard et al. 2006	E24	Orsho-2	27.88	86.81	4140	5	0.98	2.68E+05	7.00E+03	2.43E+05	6.35E+03	5.1±0.5	4.9±0.4	
Barnard et al. 2006	E25	Orsho-2	27.88	86.81	4105	5	0.98	5.60E+05	1.40E+04	5.08E+05	1.27E+04	10.8±0.9	10.4±0.7	
Barnard et al. 2006	E18	Orsho-1	27.87	86.81	3927	5	0.98	2.19E+05	7.00E+03	1.99E+05	6.35E+03	4.6±0.4	4.5±0.3	
Barnard et al. 2006	E19	Orsho-1	27.87	86.81	3927	5	0.98	1.80E+05	7.00E+03	1.63E+05	6.35E+03	3.8±0.4	3.7±0.3	4.1±0.4
Barnard et al. 2006	E20	Orsho-1	27.87	86.81	3927	5	0.98	2.04E+05	8.00E+03	1.85E+05	7.25E+03	4.3±0.4	4.1±0.3	
Barnard et al. 2006	E26	Dingboche-3	27.87	86.83	4482	5	0.99	3.93E+05	1.00E+04	3.56E+05	9.07E+03	6.2±0.6	6.0±0.4	
Barnard et al. 2006	E27	Dingboche-3	27.87	86.83	4482	5	0.99	9.72E+05	2.40E+04	8.81E+05	2.18E+04	15.4±1.4	15.0±1.1	11.2±46
Barnard et al. 2006	E28	Dingboche-3	27.87	86.81	4482	5	0.99	8.14E+05	2.00E+04	7.38E+05	1.81E+04	12.9±1.2	12.5±0.9	
Barnard et al. 2006	E64	Dingboche-2	27.9	86.84	4497	5	0.97	2.53E+05	8.00E+03	2.29E+05	7.25E+03	4.1±0.4	3.9±0.3	
Barnard et al. 2006	E65	Dingboche-2	27.9	86.84	4475	5	0.97	1.82E+05	6.00E+03	1.65E+05	5.44E+03	3.0±0.3	2.8±0.2	3.8±1.3
Barnard et al. 2006	E66	Dingboche-2	27.9	86.84	4425	5	0.97	1.77E+05	6.00E+03	1.60E+05	5.44E+03	2.9±0.3	2.8±0.2	
Barnard et al. 2006	E67	Dingboche-2	27.9	86.84	4413	5	0.97	3.48E+05	1.00E+04	3.16E+05	9.07E+03	5.8±0.5	5.6±0.4	
Barnard et al. 2006	E68	Dingboche-1	27.9	86.84	4317	5	0.97	1.59E+05	9.00E+03	1.44E+05	8.16E+03	2.9±0.3	2.7±0.2	
Barnard et al. 2006	E69	Dingboche-1	27.9	86.84	4278	5	0.97	2.15E+05	6.00E+03	1.95E+05	5.44E+03	3.8±0.3	3.7±0.3	3.4±0.7
Barnard et al. 2006	E70	Dingboche-1	27.9	86.84	4270	5	0.97	2.26E+05	6.00E+03	2.05E+05	5.44E+03	4.0±0.4	3.9±0.3	
Barnard et al. 2006	E95	Yaral-4	27.86	86.8	3952	5	0.98	6.73E+05	1.70E+04	6.10E+05	1.54E+04	14.0±1.3	13.5±1.0	
Barnard et al. 2006	E96	Yaral-4	27.85	86.8	4122	5	0.98	6.65E+05	1.70E+04	6.03E+05	1.54E+04	12.7±1.2	12.3±0.9	12.7±0.7
Barnard et al. 2006	E97	Yaral-4	27.85	86.8	4207	5	0.98	6.72E+05	1.70E+04	6.09E+05	1.54E+04	12.3±1.1	11.9±0.9	
Barnard et al. 2006	E98	Yaral-4	27.85	86.79	3969	5	0.98	6.54E+05	1.70E+04	5.93E+05	1.54E+04	13.5±1.2	13.0±0.9	
Barnard et al. 2006	E99	Yaral-3	27.85	86.8	4114	5	0.98	4.34E+05	1.10E+04	3.93E+05	9.97E+03	8.3±0.8	8.0±0.6	
Barnard et al. 2006	E100	Yaral-3	27.85	86.8	4058	5	0.98	4.14E+05	1.10E+04	3.75E+05	9.97E+03	8.1±0.7	7.9±0.6	8.0±0.1
Barnard et al. 2006	E101	Yaral-3	27.85	86.8	4058	5	0.98	4.23E+05	1.30E+04	3.84E+05	1.18E+04	8.3±0.8	8.1±0.6	
Barnard et al. 2006	E102	Yaral-2	27.85	86.8	3963	5	0.98	8.80E+04	5.00E+03	7.98E+04	4.53E+03	1.8±0.2	1.8±0.2	
Barnard et al. 2006	E103	Yaral-2	27.85	86.79	3963	5	0.98	9.00E+04	5.00E+03	8.16E+04	4.53E+03	1.9±0.2	1.8±0.2	1.6±0.3
Barnard et al. 2006	E104	Yaral-2	27.85	86.79	3963	5	0.98	6.70E+04	4.00E+03	6.07E+04	3.63E+03	1.4±0.1	1.3±0.1	
Barnard et al. 2006	E105	Yaral-1	27.85	86.79	3903	5	0.98	9.00E+03	0.00E+00	8.16E+03	9.07E-08	0.2±0.02	0.2±0.01	
Barnard et al. 2006	E106	Yaral-1	27.85	86.79	3815	5	0.97	6.20E+04	4.00E+03	5.62E+04	3.63E+03	1.4±0.2	1.3±0.1	0.8±0.8
Barnard et al. 2006	E112	Pangboche-3	27.85	86.79	3960	5	0.98	7.00E+05	1.70E+04	6.35E+05	1.54E+04	14.5±1.3	14.0±1.0	12.3±1.5

Barnard et al. 2006	E113	Pangboche-3	27.85	86.79	4021	5	0.98	6.02E+05	1.80E+04	5.46E+05	1.63E+04	12.1±1.1	11.7±0.9	
Barnard et al. 2006	E114	Pangboche-3	27.86	86.79	4061	5	0.98	5.92E+05	1.50E+04	5.37E+05	1.36E+04	11.6±1.1	11.3±0.8	
Barnard et al. 2006	E109	Pangboche-2	27.86	86.79	3985	5	0.98	4.96E+05	2.30E+04	4.50E+05	2.09E+04	10.1±1.0	9.8±0.8	
Barnard et al. 2006	E110	Pangboche-2	27.85	86.79	3970	5	0.98	1.12E+06	3.40E+04	1.01E+06	3.08E+04	23.1±2.1	22.4±1.6	13.6±7.7
Barnard et al. 2006	E111	Pangboche-2	27.85	86.79	3979	5	0.98	4.29E+05	1.30E+04	3.89E+05	1.18E+04	8.8±0.8	8.5±0.6	
Barnard et al. 2006	E118	Pangboche-1	27.85	86.79	3818	5	0.98	2.61E+05	9.00E+03	2.37E+05	8.16E+03	5.8±0.5	5.6±0.4	8.2±3.7
Barnard et al. 2006	E119	Pangboche-1	27.85	86.79	3875	5	0.98	5.18E+05	0.00E+00	4.70E+05	9.07E-08	11.2±1.0	10.8±0.7	
Barnard et al. 2004b	R5	Rilkot-3	30.31	80.2	3351	5	0.96	1.69E+05	1.10E+04	1.53E+05	9.97E+03	4.6±0.5	4.6±0.4	4.7±0.2
Barnard et al. 2004b	R6	Rilkot-3	30.31	80.2	3345	5	0.96	1.78E+05	7.00E+03	1.61E+05	6.35E+03	4.9±0.5	4.8±0.4	
Barnard et al. 2004b	R15	Rilkot-2	30.32	80.21	3262	5	0.98	1.63E+05	5.00E+03	1.48E+05	4.53E+03	4.6±0.4	4.5±0.3	7.9±4.8
Barnard et al. 2004b	R18	Rilkot-2	30.32	80.21	3289	5	0.98	4.15E+05	1.90E+04	3.76E+05	1.72E+04	11.6±1.1	11.3±0.9	
Barnard et al. 2004b	R7	Rilkot-1	30.32	80.21	3163	5	0.96	4.60E+04	2.00E+03	4.17E+04	1.81E+03	1.4±0.1	1.4±0.1	
Barnard et al. 2004b	R8	Rilkot-1	30.32	80.21	3174	5	0.96	3.78E+05	9.00E+03	3.43E+05	8.16E+03	11.5±1.0	11.3±0.8	
Barnard et al. 2004b	R9	Rilkot-1	30.32	80.21	3161	5	0.96	6.67E+05	1.60E+04	6.05E+05	1.45E+04	20.5±1.9	20.1±1.4	
Barnard et al. 2004b	R10	Rilkot-1	30.32	80.21	3167	5	0.96	2.95E+05	7.00E+03	2.67E+05	6.35E+03	9.0±0.8	8.8±0.6	6.8±6.6
Barnard et al. 2004b	R11	Rilkot-1	30.31	80.21	3149	5	0.96	2.38E+05	7.00E+03	2.16E+05	6.35E+03	7.3±0.7	7.2±0.5	
Barnard et al. 2004b	R12	Rilkot-1	30.31	80.21	3139	5	0.96	7.60E+04	3.00E+03	6.89E+04	2.72E+03	2.4±0.2	2.3±0.2	
Barnard et al. 2004b	R13	Rilkot-1	30.31	80.21	3136	5	0.96	3.40E+04	2.00E+03	3.08E+04	1.81E+03	1.1±0.1	1.0±0.1	
Barnard et al. 2004b	R14	Rilkot-1	30.31	80.21	3135	5	0.96	7.20E+04	4.00E+03	6.53E+04	3.63E+03	2.2±0.2	2.2±0.2	
Barnard et al. 2004b	NDL44	Milam-t3	30.43	80.15	3414	5	0.97	1.35E+05	3.10E+04	1.22E+05	2.81E+04	3.5±0.9	3.4±0.8	2.7±1.1
Barnard et al. 2004b	NDL45	Milam-t3	30.43	80.15	3320	5	0.97	7.20E+04	4.00E+03	6.53E+04	3.63E+03	2.0±0.2	1.9±0.2	
Barnard et al. 2004b	NDL24	Milam-t1	30.43	80.16	3446	5	0.97	1.90E+05	6.50E+04	1.72E+05	5.89E+04	4.9±1.7	4.8±1.7	
Barnard et al. 2004b	NDL25	Milam-t1	30.43	80.16	3335	5	0.97	3.14E+05	1.40E+04	2.85E+05	1.27E+04	8.6±0.8	8.4±0.7	7.1±1.7
Barnard et al. 2004b	NDL26	Milam-t1	30.43	80.16	3416	5	0.97	2.82E+05	1.60E+04	2.56E+05	1.45E+04	7.4±0.8	7.2±0.6	
Barnard et al. 2004b	NDL27	Milam-t1	30.43	80.16	3435	5	0.97	3.23E+05	8.00E+03	2.93E+05	7.25E+03	8.4±0.8	8.1±0.6	
Barnard et al. 2004a	BH6	Bhuj Kharak-1	30.96	78.95	3810	5	0.91	1.73E+05	1.10E+04	1.57E+05	9.97E+03	3.8±0.4	3.8±0.3	2.9±1.2
Barnard et al. 2004a	BH7	Bhuj Kharak-1	30.96	78.94	3878	5	0.91	9.60E+04	7.00E+03	8.70E+04	6.35E+03	2.1±0.2	2.0±0.2	
Barnard et al. 2004a	BH14	Kedar Kharak-1	30.94	78.95	4396	5	0.97	4.60E+05	1.10E+04	4.17E+05	9.97E+03	7.2±0.6	6.8±0.5	6.8±0.5

#### Notes-

Assume zero erosion rate, standard pressure, and  $\rho=2.7 \text{ g/cm}^3$  for all samples

<sup>a</sup>CRONUS ages calculated using version 2.2 and Lal(1991)/ Stone (2000) scaling scheme

<sup>b</sup>PRIME Laboratory ages calculated using scaling model of Stone (2000) scaling scheme

#### References

Barnard, P.L., Owen, L.A., Sharma, M.C., & Finkel, R.C., 2004a. Late Quaternary landscape evolution of a monsoon-influenced high Himalayan valley, Gori Ganga, Nanda Devi, NE Garhwal. *Geomorphology*, 61, 91–110.

Barnard, P.L., Owen, L.A., & Finkel, R.C., 2004b. Style and timing of glacial and paraglacial sedimentation in a monsoon-influenced high Himalayan environment, the upper Bhagirathi Valley, Garhwal Himalaya. *Sedimentary Geology*, 165, 199–221.

Barnard, P.L., Owen, L.A., & Finkel, R.C., 2006. Quaternary fans and terraces in the Khumbu Himal south of Mount Everest: their characteristics, age and formation. *Journal of Geological Society of London*, 163, 383–399.