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Hillslope-glacier coupling: the interplay of topography and glacial activity in High Asia.

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In this document we provide details on the ASTER and SPOT satellite images that we used for obtaining the glacier-surface velocities (Table S1 and Table S2) and on the Landsat satellite images that we used for mapping the debris-covered glacier areas (Table S3). Table S4 gives details on the correlation procedures, the associated residual uncertainties, and the resulting velocity uncertainties. Table S5 gives details on the investigated glaciers, including center coordinates of bounding rectangles, area, length, elevation range, aspect, slope, debris cover, and surging behavior. Each glacier is identified with a unique number (Glacier ID), which are also given in the Tables S6-S8. Tables S6 and S7 provide topographic details on their catchments and accumulation areas, respectively. Table S8 gives details on the glacier velocities (mean, max, abundance of data gaps) and whether a glacier has been excluded from some of the more detailed analysis, with a pointer to the corresponding figure in the manuscript.

Table S1: List of all ASTER satellite images used in this study.

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
1	Bhutan	ASTL1A 0101200458520109050995	20.01.2001	-0.019	60
2	Bhutan	ASTL1A 0111040451360111170671	04.11.2001	-2.832	19
3	Bhutan	ASTL1A 0111200451120111300272	20.11.2001	-0.022	33
4	Bhutan	ASTL1A 0212090448280212220388	09.12.2002	-2.873	42
5	Bhutan	ASTL1A 0301100447490304130278	10.01.2003	-2.873	63
6	Bhutan	ASTL1A 0501060452260501170201	06.01.2005	8.580	70
7	Bhutan	ASTL1A 0501150446180501260416	15.01.2005	-2.826	79
8	Bhutan	ASTL1A 0509280446010509300440	28.09.2005	-0.028	27
9	Bhutan	ASTL1A 0601180445230601230029	18.01.2006	0.022	81
10	Bhutan	ASTL1A 0602100451590602120700	10.02.2006	8.586	80
11	Bhutan	ASTL1A 0602260452140603010086	26.02.2006	8.586	48
12	Bhutan	ASTL1A 0612200446380612250005	20.12.2006	-1.448	73
13	Bhutan	ASTL1A 0701050446530701080251	05.01.2007	-2.832	61
14	Bhutan	ASTL1A 0701210447050701240139	21.01.2007	-0.022	80
15	Bhutan	ASTL1A 0702220447190702270059	22.02.2007	-0.022	51
16	Bhutan	ASTL1A 0703260447200703290416	26.03.2007	-0.017	32
17	Bhutan	ASTL1A 0704020453290704040588	02.04.2007	8.588	52
18	Bhutan	ASTL1A 0705040453140705070028	04.05.2007	8.586	53
19	Bhutan	ASTL1A 0705130446560705170311	13.05.2007	-2.873	41
20	Bhutan	ASTL1A 0705290446510706020317	29.05.2007	-2.870	14
21	Bhutan	ASTL1A 0710110453130710130457	11.10.2007	8.580	43
22	Bhutan	ASTL1A 0712140453090712180402	14.12.2007	8.580	72
23	Kanchenjunga	ASTL1A 0010070507170106171024	07.10.2000	0.022	36
24	Kanchenjunga	ASTL1A 0012010512050107290690	01.12.2000	8.588	64
25	Kanchenjunga	ASTL1A 0012010512140107290691	01.12.2000	8.588	57
26	Kanchenjunga	ASTL1A 0102280504430312150721	28.02.2001	-0.011	74
27	Kanchenjunga	ASTL1A 0104080509330312050170	08.04.2001	8.594	39
28	Kanchenjunga	ASTL1A 0104080509420312050171	08.04.2001	8.594	71
29	Kanchenjunga	ASTL1A 0110260458250111100014	26.10.2001	-5.727	51
30	Kanchenjunga	ASTL1A 0111110457430112140260	11.11.2001	-5.666	38
31	Kanchenjunga	ASTL1A 0111270457290402220471	27.11.2001	0.019	37
32	Kanchenjunga	ASTL1A 0112130456420112270108	13.12.2001	0.019	37
33	Kanchenjunga	ASTL1A 0201050502070201300923	05.01.2002	8.588	64
34	Kanchenjunga	ASTL1A 0201050502160201300924	05.01.2002	8.588	28
35	Kanchenjunga	ASTL1A 0201300455400202170317	30.01.2002	-0.028	77
36	Kanchenjunga	ASTL1A 0204040454430204150209	04.04.2002	-5.727	63
37	Kanchenjunga	ASTL1A 0205130500520205230702	13.05.2002	8.586	18
38	Kanchenjunga	ASTL1A 0205130501010205230703	13.05.2002	8.586	27
39	Kanchenjunga	ASTL1A 0210290454280211121103	29.10.2002	-2.870	51
40	Kanchenjunga	ASTL1A 0408150452490408280597	15.08.2004	0.022	47
41	Kanchenjunga	ASTL1A 0412050452090412170068	05.12.2004	-2.870	62
42	Kanchenjunga	ASTL1A 0502140458310502240663	14.02.2005	8.588	89
43	Kanchenjunga	ASTL1A 0502140458400502240664	14.02.2005	8.588	76
44	Kanchenjunga	ASTL1A 0611090452420611120038	09.11.2006	-2.873	76
45	Kanchenjunga	ASTL1A 0611250452450611290423	25.11.2006	-2.873	70
46	Kanchenjunga	ASTL1A 0711030459100711060158	03.11.2007	5.729	80
47	Kanchenjunga	ASTL1A 0711120452550711150090	12.11.2007	-2.867	82
48	Kanchenjunga	ASTL1A 0711190459030711220179	19.11.2007	8.525	69
49	Kanchenjunga	ASTL1A 0711190459120711220180	19.11.2007	8.525	35
50	Kanchenjunga	ASTL1A 0712300453230801020215	30.12.2007	-2.870	65
51	Khumbu	ASTL1A 0009280513430312080380	28.09.2000	-2.870	25
52	Khumbu	ASTL1A 0009280513510312080381	28.09.2000	-2.870	63
53	Khumbu	ASTL1A 0010140513180106251045	14.10.2000	0.022	37
54	Khumbu	ASTL1A 0010140513270106251046	14.10.2000	0.022	70
55	Khumbu	ASTL1A 0010300512460107110671	30.10.2000	-0.025	27
56	Khumbu	ASTL1A 0112200502200201111046	20.12.2001	0.025	60

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
57	Khumbu	ASTL1A 0112200502290201111047	20.12.2001	0.025	43
58	Khumbu	ASTL1A 0210040500290210261258	04.10.2002	-2.829	21
59	Khumbu	ASTL1A 0210040500380210261259	04.10.2002	-2.829	49
60	Khumbu	ASTL1A 0211210500340212070707	21.11.2002	-0.041	36
61	Khumbu	ASTL1A 0301080500070303170125	08.01.2003	-0.030	77
62	Khumbu	ASTL1A 0301080500160303170126	08.01.2003	-0.030	48
63	Khumbu	ASTL1A 0310230459200311050562	23.10.2003	0.019	18
64	Khumbu	ASTL1A 0310230459290311050563	23.10.2003	0.019	25
65	Khumbu	ASTL1A 0410090458300410220102	09.10.2004	0.022	31
66	Khumbu	ASTL1A 0410090458390410220103	09.10.2004	0.022	72
67	Khumbu	ASTL1A 0410250458150411040497	25.10.2004	-2.873	63
68	Khumbu	ASTL1A 0410250458240411040498	25.10.2004	-2.873	77
69	Khumbu	ASTL1A 0411100458100411210130	10.11.2004	-1.480	70
70	Khumbu	ASTL1A 0411100458190411210131	10.11.2004	-1.480	55
71	Khumbu	ASTL1A 0511130458410511190111	13.11.2005	0.022	47
72	Khumbu	ASTL1A 0511290458400512020077	29.11.2005	-0.019	45
73	Khumbu	ASTL1A 0512060504390512090572	06.12.2005	8.588	76
74	Khumbu	ASTL1A 0512150458320512180055	15.12.2005	0.016	43
75	Khumbu	ASTL1A 0602010458090602040117	01.02.2006	-2.876	40
76	Khumbu	ASTL1A 0701190459250701220147	19.01.2007	-2.867	90
77	Khumbu	ASTL1A 0701190459340701220148	19.01.2007	-2.867	67
78	Khumbu	ASTL1A 0801060459270801090347	06.01.2008	0.014	87
79	Khumbu	ASTL1A 0801060459360801090348	06.01.2008	0.014	48
80	Manaslu	ASTL1A 0010120525320106240667	12.10.2000	0.025	38
81	Manaslu	ASTL1A 0011290524260107270734	29.11.2000	0.019	34
82	Manaslu	ASTL1A 0011290524350107270735	29.11.2000	0.019	21
83	Manaslu	ASTL1A 0012150524110108090592	15.12.2000	-0.017	29
84	Manaslu	ASTL1A 0012150524200108090593	15.12.2000	-0.017	21
85	Manaslu	ASTL1A 0102170523210112070649	17.02.2001	2.873	47
86	Manaslu	ASTL1A 0105010515320105140485	01.05.2001	-8.589	55
87	Manaslu	ASTL1A 0210020512460210241099	02.10.2002	0.025	12
88	Manaslu	ASTL1A 0210020512550210241100	02.10.2002	0.025	14
89	Manaslu	ASTL1A 0211030512410211170128	03.11.2002	5.721	57
90	Manaslu	ASTL1A 0211030512490211170129	03.11.2002	5.721	29
91	Manaslu	ASTL1A 0310050511250310180496	05.10.2003	-0.022	14
92	Manaslu	ASTL1A 0310050511330310180497	05.10.2003	-0.022	8
93	Manaslu	ASTL1A 0402100512150402290204	10.02.2004	-0.022	45
94	Manaslu	ASTL1A 0403130511570404015542	13.03.2004	5.729	30
95	Manaslu	ASTL1A 0403130512060404015543	13.03.2004	5.729	44
96	Manaslu	ASTL1A 0409050510550409170312	05.09.2004	2.881	70
97	Manaslu	ASTL1A 0410230510300411020192	23.10.2004	5.729	47
98	Manaslu	ASTL1A 0410230510390411020193	23.10.2004	5.729	32
99	Manaslu	ASTL1A 0411170504130412100771	17.11.2004	-5.727	46
100	Manaslu	ASTL1A 0412030504190412140490	03.12.2004	-5.729	34
101	Manaslu	ASTL1A 0412260510440501090793	26.12.2004	5.732	75
102	Manaslu	ASTL1A 0607020505040607050249	02.07.2006	-8.591	40
103	Manaslu	ASTL1A 0611070504450611100030	07.11.2006	-8.586	59
104	Manaslu	ASTL1A 0611070504540611100031	07.11.2006	-8.586	58
105	Manaslu	ASTL1A 0704070511510704100125	07.04.2007	2.873	59
106	Manaslu	ASTL1A 0704070512000704100126	07.04.2007	2.873	44
107	Manaslu	ASTL1A 0704230511440704260183	23.04.2007	2.870	80
108	Manaslu	ASTL1A 0801040511390801070124	04.01.2008	2.878	69
109	Manaslu	ASTL1A 0801040511480801070125	04.01.2008	2.878	29
110	Gurla Mandatha	ASTL1A 0110310516020111120765	31.10.2001	-8.583	48
111	Gurla Mandatha	ASTL1A 0201030514170201290966	03.01.2002	-8.589	80
112	Gurla Mandatha	ASTL1A 0212280518390301140465	28.12.2002	0.016	88
113	Gurla Mandatha	ASTL1A 0302140518300303100587	14.02.2003	2.832	99
114	Gurla Mandatha	ASTL1A 0302230512170303310409	23.02.2003	-8.583	58
115	Gurla Mandatha	ASTL1A 0306150511380307011009	15.06.2003	-8.591	22
116	Gurla Mandatha	ASTL1A 0309260517080310070441	26.09.2003	1.925	14

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
117	Gurla Mandatha	ASTL1A 0510100510300510130020	10.10.2005	-8.580	57
118	Gurla Mandatha	ASTL1A 0612230517090612270410	23.12.2006	1.398	77
119	Gurla Mandatha	ASTL1A 0704140517420704170217	14.04.2007	-0.022	48
120	Gurla Mandatha	ASTL1A 0707190517410707230025	19.07.2007	0.022	37
121	Gurla Mandatha	ASTL1A 0711150523170711180135	15.11.2007	8.580	60
122	Garhwal (Gangotri)	ASTL1A 0011090549040303210003	09.11.2000	8.578	55
123	Garhwal (Gangotri)	ASTL1A 0109090542130109210888	09.09.2001	5.699	52
124	Garhwal (Gangotri)	ASTL1A 0111210533440112050016	21.11.2001	-8.589	39
125	Garhwal (Gangotri)	ASTL1A 0112230532340202250746	23.12.2001	-8.586	48
126	Garhwal (Gangotri)	ASTL1A 0201080532060202020960	08.01.2002	-8.586	45
127	Garhwal (Gangotri)	ASTL1A 0205160531070205250344	16.05.2002	-8.583	32
128	Garhwal (Gangotri)	ASTL1A 0310100529250310220539	10.10.2003	-5.727	44
129	Garhwal (Gangotri)	ASTL1A 0310100529340310220540	10.10.2003	-5.727	13
130	Garhwal (Gangotri)	ASTL1A 0407240529140408100758	24.07.2004	-8.586	40
131	Garhwal (Gangotri)	ASTL1A 0508190534580508220145	19.08.2005	5.729	87
132	Garhwal (Gangotri)	ASTL1A 0510150528360510180881	15.10.2005	-8.583	69
133	Garhwal (Gangotri)	ASTL1A 0609230535100609260202	23.09.2006	2.878	52
134	Garhwal (Gangotri)	ASTL1A 0610090534580610120384	09.10.2006	5.729	62
135	Garhwal (Gangotri)	ASTL1A 0610180528400610210283	18.10.2006	-5.727	76
136	Garhwal (Gangotri)	ASTL1A 0611100535050611130259	10.11.2006	2.873	57
137	Garhwal (Gangotri)	ASTL1A 0705050535450705080221	05.05.2007	2.876	81
138	Garhwal (Gangotri)	ASTL1A 0711060529070711090209	06.11.2007	-8.580	54
139	Garhwal (Gangotri)	ASTL1A 0711060529160711090210	06.11.2007	-8.580	30
140	Garhwal (Gangotri)	ASTL1A 0711220529160711250112	22.11.2007	-8.580	63
141	Garhwal (Gangotri)	ASTL1A 0711220529250711250113	22.11.2007	-8.580	17
142	Garhwal (Tons)	ASTL1A 0111210533440112050016	21.11.2001	-8.589	39
143	Garhwal (Tons)	ASTL1A 0112070533200112220027	07.12.2001	-8.589	53
144	Garhwal (Tons)	ASTL1A 0112300538430201260386	30.12.2001	0.016	30
145	Garhwal (Tons)	ASTL1A 0205160531070205250344	16.05.2002	-8.583	32
146	Garhwal (Tons)	ASTL1A 0304240536010305040110	24.04.2003	0.019	12
147	Garhwal (Tons)	ASTL1A 0310010535290310120326	01.10.2003	-0.025	13
148	Garhwal (Tons)	ASTL1A 0403090536090403230332	09.03.2004	-0.030	59
149	Garhwal (Tons)	ASTL1A 0404260535430405070040	26.04.2004	-0.022	46
150	Garhwal (Tons)	ASTL1A 0409010535020409120470	01.09.2004	-0.030	69
151	Garhwal (Tons)	ASTL1A 0411040534340411120657	04.11.2004	-0.022	69
152	Garhwal (Tons)	ASTL1A 0510150528360510180881	15.10.2005	-8.583	63
153	Garhwal (Tons)	ASTL1A 0510220534470510250071	22.10.2005	-0.017	30
154	Garhwal (Tons)	ASTL1A 0704030536000704060191	03.04.2007	2.876	29
155	Garhwal (Tons)	ASTL1A 0706060535380706110246	06.06.2007	-0.017	22
156	Garhwal (Tons)	ASTL1A 0711130535190711160126	13.11.2007	0.016	41
157	Garhwal (Tons)	ASTL1A 0712310535460801030198	31.12.2007	0.025	47
158	Leo Pargil	ASTL1A 0103170546010201070780	17.03.2001	-2.870	18
159	Leo Pargil	ASTL1A 0111210533260112050014	21.11.2001	-8.589	45
160	Leo Pargil	ASTL1A 0111210533350112050015	21.11.2001	-8.589	29
161	Leo Pargil	ASTL1A 0304240535430305040108	24.04.2003	0.019	10
162	Leo Pargil	ASTL1A 0310010535020310120323	01.10.2003	-0.025	33
163	Leo Pargil	ASTL1A 0310010535110310120324	01.10.2003	-0.025	27
164	Leo Pargil	ASTL1A 0310170535220310290241	17.10.2003	-2.870	67
165	Leo Pargil	ASTL1A 0311020535240311160279	02.11.2003	-2.870	29
166	Leo Pargil	ASTL1A 0409010534450409120468	01.09.2004	-0.030	33
167	Leo Pargil	ASTL1A 0411040534070411120654	04.11.2004	-0.022	89
168	Leo Pargil	ASTL1A 0411040534160411120655	04.11.2004	-0.022	71
169	Leo Pargil	ASTL1A 0509040534310509080554	04.09.2005	2.867	13
170	Leo Pargil	ASTL1A 0510220534300510250069	22.10.2005	-0.017	64
171	Leo Pargil	ASTL1A 0611010540540611040102	01.11.2006	8.588	60
172	Leo Pargil	ASTL1A 0706060535210706110244	06.06.2007	-0.017	30
173	Leo Pargil	ASTL1A 0711060528490711090207	06.11.2007	-8.580	80
174	Leo Pargil	ASTL1A 0711130535010711160124	13.11.2007	0.016	88
175	Leo Pargil	ASTL1A 0711220528580711250110	22.11.2007	-8.580	99
176	Leo Pargil	ASTL1A 0712310535290801030196	31.12.2007	0.025	89

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
177	Lahul (South)	ASTL1A 0207010543130208150812	01.07.2002	5.729	39
178	Lahul (South)	ASTL1A 0210300536330211130402	30.10.2002	-8.589	50
179	Lahul (South)	ASTL1A 0310080541190310210182	08.10.2003	2.873	28
180	Lahul (South)	ASTL1A 0310080541280310210183	08.10.2003	2.873	38
181	Lahul (South)	ASTL1A 0310240541340311110443	24.10.2003	0.022	52
182	Lahul (South)	ASTL1A 0409080540560409190507	08.09.2004	-0.011	16
183	Lahul (South)	ASTL1A 0409170534440409280460	17.09.2004	-8.580	58
184	Lahul (South)	ASTL1A 0511070534350511100073	07.11.2005	-8.583	61
185	Lahul (South)	ASTL1A 0609300540580610030214	30.09.2006	-0.022	28
186	Lahul (South)	ASTL1A 0610160540360610190142	16.10.2006	0.022	59
187	Lahul (South)	ASTL1A 0610160540450610190143	16.10.2006	0.022	26
188	Lahul (South)	ASTL1A 0611170541010611200053	17.11.2006	1.423	73
189	Lahul (South)	ASTL1A 0705210535140705240094	21.05.2007	-8.591	68
190	Lahul (South)	ASTL1A 0711200541090711230108	20.11.2007	2.873	77
191	Lahul (South)	ASTL1A 0711200541180711230109	20.11.2007	2.873	53
192	Lahul (South)	ASTL1A 0712150535230712190552	15.12.2007	-8.569	54
193	Lahul (North)	ASTL1A 0006250556410205200667	25.06.2000	-0.025	30
194	Lahul (North)	ASTL1A 0008280556270212310499	28.08.2000	0.019	28
195	Lahul (North)	ASTL1A 0210050542310210260531	05.10.2002	-2.873	15
196	Lahul (North)	ASTL1A 0210280548370211110725	28.10.2002	8.586	53
197	Lahul (North)	ASTL1A 0210280548450211110726	28.10.2002	8.586	20
198	Lahul (North)	ASTL1A 0210300536330211130402	30.10.2002	-8.589	50
199	Lahul (North)	ASTL1A 0310080541190310210182	08.10.2003	2.873	28
200	Lahul (North)	ASTL1A 0310240541250311110442	24.10.2003	0.022	50
201	Lahul (North)	ASTL1A 0409080540470409190506	08.09.2004	-0.011	24
202	Lahul (North)	ASTL1A 0409170534350409280459	17.09.2004	-8.580	22
203	Lahul (North)	ASTL1A 0409170534440409280460	17.09.2004	-8.580	58
204	Lahul (North)	ASTL1A 0510290540340511070136	29.10.2005	0.030	55
205	Lahul (North)	ASTL1A 0511070534260511100072	07.11.2005	-8.583	88
206	Lahul (North)	ASTL1A 0511070534350511100073	07.11.2005	-8.583	61
207	Lahul (North)	ASTL1A 0609300540500610030213	30.09.2006	-0.022	43
208	Lahul (North)	ASTL1A 0610160540360610190142	16.10.2006	0.022	59
209	Lahul (North)	ASTL1A 0706130541260706160194	13.06.2007	-2.873	41
210	Lahul (North)	ASTL1A 0711200541090711230108	20.11.2007	2.873	77
211	Lahul (North)	ASTL1A 0712150535230712190552	15.12.2007	-8.569	54
212	Jammu	ASTL1A 0210120548170210310211	12.10.2002	2.87	57
213	Jammu	ASTL1A 0303050547540303220353	5.3.2003	0.02	58
214	Jammu	ASTL1A 0310310547150311140751	31.10.2003	-0.022	32
215	Jammu	ASTL1A 0503260546510503290271	26.03.2005	2.87	13
216	Jammu	ASTL1A 0510130540230510170292	13.10.2005	-5.73	65
217	Jammu	ASTL1A 0510200546250510220487	20.10.2005	2.884	62
218	Jammu	ASTL1A 0610070546370610100198	07.10.2006	2.870	55
219	Jammu	ASTL1A 0610230546320610260139	23.10.2006	2.88	56
220	Jammu	ASTL1A 0712220541100712260233	22.12.2007	-8.53	52
221	Karakoram (Baltoro)	ASTL1A 0009110607520301210381	11.09.2000	8.580	61
222	Karakoram (Baltoro)	ASTL1A 0108290600030109100540	29.08.2001	8.586	51
223	Karakoram (Baltoro)	ASTL1A 0210030554040210250577	03.10.2002	8.586	46
224	Karakoram (Baltoro)	ASTL1A 0309200552270310020633	20.09.2003	5.672	24
225	Karakoram (Baltoro)	ASTL1A 0310060552460310190240	06.10.2003	8.588	32
226	Karakoram (Baltoro)	ASTL1A 0310220552540311040573	22.10.2003	8.591	44
227	Karakoram (Baltoro)	ASTL1A 0403300552550404130517	30.03.2004	8.588	47
228	Karakoram (Baltoro)	ASTL1A 0408140546140408280137	14.08.2004	-2.873	24
229	Karakoram (Baltoro)	ASTL1A 0409150546040409260541	15.09.2004	-2.873	46
230	Karakoram (Baltoro)	ASTL1A 0502220545470508180153	22.02.2005	0.022	22
231	Karakoram (Baltoro)	ASTL1A 0506210552100506270657	21.06.2005	8.588	47
232	Karakoram (Baltoro)	ASTL1A 0506300546030507040533	30.06.2005	-2.870	78
233	Karakoram (Baltoro)	ASTL1A 0509250551550509280072	25.09.2005	8.583	88
234	Karakoram (Baltoro)	ASTL1A 0607260552400607290068	26.07.2006	5.680	20
235	Karakoram (Biafo Gyang)	ASTL1A 0009110607520301210381	11.09.2000	8.580	61
236	Karakoram (Biafo Gyang)	ASTL1A 0103060603530201020311	06.03.2001	5.729	33

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
237	Karakoram (Biafo Gyang)	ASTL1A 0105180556200105280799	18.05.2001	-5.727	14
238	Karakoram (Biafo Gyang)	ASTL1A 0108290600030109100540	29.08.2001	8.586	51
239	Karakoram (Biafo Gyang)	ASTL1A 0305310553080306200218	31.05.2003	5.677	30
240	Karakoram (Biafo Gyang)	ASTL1A 0309200552270310020633	20.09.2003	5.672	24
241	Karakoram (Biafo Gyang)	ASTL1A 0411020545360411110367	02.11.2004	-5.677	37
242	Karakoram (Biafo Gyang)	ASTL1A 0504020552210504050375	02.04.2005	5.727	30
243	Karakoram (Biafo Gyang)	ASTL1A 0504020552300504050376	02.04.2005	5.727	12
244	Karakoram (Biafo Gyang)	ASTL1A 0511050545540511080468	05.11.2005	-8.591	40
245	Karakoram (Biafo Gyang)	ASTL1A 0603130545580603160141	13.03.2006	-5.729	18
246	Karakoram (Biafo Gyang)	ASTL1A 0603290546060604010104	29.03.2006	-5.727	50
247	Karakoram (Biafo Gyang)	ASTL1A 0604050552110604080006	05.04.2006	2.837	66
248	Karakoram (Biafo Gyang)	ASTL1A 0604050552200604080007	05.04.2006	2.837	45
249	Karakoram (Biafo Gyang)	ASTL1A 0605160546060605190122	16.05.2006	-5.729	21
250	Karakoram (Biafo Gyang)	ASTL1A 0606170546180606200585	17.06.2006	-8.583	21
251	Karakoram (Biafo Gyang)	ASTL1A 0606240552240606270217	24.06.2006	5.729	18
252	Karakoram (Biafo Gyang)	ASTL1A 0606240552320606270218	24.06.2006	5.729	22
253	Karakoram (Biafo Gyang)	ASTL1A 0607260552310607290067	26.07.2006	5.680	19
254	Karakoram (Biafo Gyang)	ASTL1A 0607260552400607290068	26.07.2006	5.680	20
255	Karakoram (Biafo Gyang)	ASTL1A 0609050546220609080110	05.09.2006	-5.666	56
256	Karakoram (Biafo Gyang)	ASTL1A 0609120552210609150241	12.09.2006	-0.019	44
257	Karakoram (Biafo Gyang)	ASTL1A 0609280552110610010266	28.09.2006	2.837	37
258	Karakoram (Biafo Gyang)	ASTL1A 0610300552040611020126	30.10.2006	-0.022	38
259	Karakoram (Biafo Gyang)	ASTL1A 0611080546070611110148	08.11.2006	-5.735	16
260	Karakoram (Biafo Gyang)	ASTL1A 0612100546110612130029	10.12.2006	-5.729	80
261	Karakoram (Biafo Gyang)	ASTL1A 0701020552370701050476	02.01.2007	5.677	74
262	Karakoram (Biafo Gyang)	ASTL1A 0701020552460701050477	02.01.2007	5.677	40
263	Karakoram (Biafo Gyang)	ASTL1A 0701110546430701140142	11.01.2007	-5.727	74
264	Karakoram (Biafo Gyang)	ASTL1A 0701270546530701300158	27.01.2007	-5.666	36
265	Karakoram (Biafo Gyang)	ASTL1A 0703070553070703100401	07.03.2007	5.727	42
266	Karakoram (Biafo Gyang)	ASTL1A 0703070553160703100402	07.03.2007	5.727	29
267	Karakoram (Biafo Gyang)	ASTL1A 0703230553070703270137	23.03.2007	5.672	18
268	Karakoram (Biafo Gyang)	ASTL1A 0703230553160703270138	23.03.2007	5.672	20
269	Karakoram (Biafo Gyang)	ASTL1A 0706110552450706140125	11.06.2007	5.727	24
270	Karakoram (Biafo Gyang)	ASTL1A 0706110552540706140126	11.06.2007	5.727	20
271	Karakoram (Biafo Gyang)	ASTL1A 0706270552520706300203	27.06.2007	5.721	21
272	Karakoram (Biafo Gyang)	ASTL1A 0706270553010706300204	27.06.2007	5.721	25
273	Karakoram (Biafo Gyang)	ASTL1A 0711270546320711300252	27.11.2007	-8.580	17
274	Karakoram (Hispar)	ASTL1A 0109300558330110131083	30.09.2001	0.022	15
275	Karakoram (Hispar)	ASTL1A 0109300558420110131084	30.09.2001	0.022	19
276	Karakoram (Hispar)	ASTL1A 0310290558540311120339	29.10.2003	8.588	22
277	Karakoram (Hispar)	ASTL1A 0409130558170409250097	13.09.2004	8.588	18
278	Karakoram (Hispar)	ASTL1A 0409290558120410090296	29.09.2004	8.583	91
279	Karakoram (Hispar)	ASTL1A 0511050545540511080468	05.11.2005	-8.591	40
280	Karakoram (Hispar)	ASTL1A 0511050545450511080467	05.11.2005	-8.591	53
281	Karakoram (Hispar)	ASTL1A 0603110558100603140060	11.03.2006	8.580	1
282	Karakoram (Hispar)	ASTL1A 0604050552110604080006	05.04.2006	2.837	66
283	Karakoram (Hispar)	ASTL1A 0604210552130604240319	21.04.2006	-0.030	59
284	Karakoram (Hispar)	ASTL1A 0606170546180606200585	17.06.2006	-8.583	21
285	Karakoram (Hispar)	ASTL1A 0609120552210609150241	12.09.2006	-0.019	44
286	Karakoram (Hispar)	ASTL1A 0609280552300609150242	12.09.2006	-0.019	40
287	Karakoram (Hispar)	ASTL1A 0609280552110610010266	28.09.2006	2.837	37
288	Karakoram (Hispar)	ASTL1A 0610300552040611020126	30.10.2006	-0.022	38
289	Karakoram (Hispar)	ASTL1A 0705010559020705040176	01.05.2007	8.588	68
290	Karakoram (Hispar)	ASTL1A 0711270546320711300252	27.11.2007	-8.580	17
291	Hindu Kush (North)	ASTL1A 0008310626110301030420	31.08.2000	8.580	10
292	Hindu Kush (North)	ASTL1A 0110050616490110190607	05.10.2001	5.699	31
293	Hindu Kush (North)	ASTL1A 0110140610390110260251	14.10.2001	-0.442	38
294	Hindu Kush (North)	ASTL1A 0207040612490208050489	04.07.2002	8.580	39
295	Hindu Kush (North)	ASTL1A 0209220612360210150796	22.09.2002	8.583	19
296	Hindu Kush (North)	ASTL1A 0210080612070210290273	08.10.2002	5.732	27

No.	Geographic region	ASTER Granule ID	Acquisition date	Incidence angle [°]	Cloud cover [%]
297	Hindu Kush (North)	ASTL1A 0608160610540608190236	16.08.2006	8.588	54
298	Hindu Kush (North)	ASTL1A 0609010610490609040147	01.09.2006	8.586	93
299	Hindu Kush (North)	ASTL1A 0705150611050705200121	15.05.2007	8.580	17
300	Hindu Kush (North)	ASTL1A 0707270605150707300190	27.07.2007	0.022	32
301	Hindu Kush (North)	ASTL1A 0708190611270708230087	19.08.2007	8.580	34
302	Hindu Kush (South)	ASTL1A 0008310626200301030421	31.08.2000	8.580	10
303	Hindu Kush (South)	ASTL1A 0106240613190107010540	24.06.2001	-2.829	25
304	Hindu Kush (South)	ASTL1A 0109280611010110120232	28.09.2001	-0.838	15
305	Hindu Kush (South)	ASTL1A 0110140610480110260252	14.10.2001	-0.442	30
306	Hindu Kush (South)	ASTL1A 0207040612580208050490	04.07.2002	8.580	10
307	Hindu Kush (South)	ASTL1A 0209220612450210150797	22.09.2002	8.583	9
308	Hindu Kush (South)	ASTL1A 0210080612150210290274	08.10.2002	5.732	29
309	Hindu Kush (South)	ASTL1A 0306140605210306300523	14.06.2003	0.019	15
310	Hindu Kush (South)	ASTL1A 0310200605060311010292	20.10.2003	-0.022	28
311	Hindu Kush (South)	ASTL1A 0405150605120405270448	15.05.2004	0.022	17
312	Hindu Kush (South)	ASTL1A 0406160604570406290312	16.06.2004	0.022	21
313	Hindu Kush (South)	ASTL1A 0409200604270410010164	20.09.2004	-2.873	50
314	Hindu Kush (South)	ASTL1A 0608160611020608190237	16.08.2006	8.588	35
315	Hindu Kush (South)	ASTL1A 0705150611140705200122	15.05.2007	8.580	18
316	Hindu Kush (South)	ASTL1A 0707270605240707300191	27.07.2007	0.022	28
317	Hindu Kush (South)	ASTL1A 0708190611360708230088	19.08.2007	8.580	43
318	West Kunlun Shan	ASTL1A 0005100543500204120475	10.05.2000	0.027	40
319	West Kunlun Shan	ASTL1A 0005100543590204120476	10.05.2000	0.027	36
320	West Kunlun Shan	ASTL1A 0103100539130201040563	10.03.2001	-5.729	39
321	West Kunlun Shan	ASTL1A 0103260538490202090556	26.03.2001	-0.019	58
322	West Kunlun Shan	ASTL1A 0103260538580202090557	26.03.2001	-0.019	70
323	West Kunlun Shan	ASTL1A 0202160535570203010929	16.02.2002	8.575	78
324	West Kunlun Shan	ASTL1A 0203130529270203290309	13.03.2002	-0.022	68
325	West Kunlun Shan	ASTL1A 0203130529360203290310	13.03.2002	-0.022	55
326	West Kunlun Shan	ASTL1A 0210140535230211031149	14.10.2002	5.699	23
327	West Kunlun Shan	ASTL1A 0304080535030304190316	08.04.2003	8.588	61
328	West Kunlun Shan	ASTL1A 0307220527260308050112	22.07.2003	0.022	14
329	West Kunlun Shan	ASTL1A 0310100528150310220531	10.10.2003	-5.727	36
330	West Kunlun Shan	ASTL1A 0403180528290404040357	18.03.2004	-0.030	49
331	West Kunlun Shan	ASTL1A 0403180528380404040358	18.03.2004	-0.030	36
332	West Kunlun Shan	ASTL1A 0412060533130412180063	06.12.2004	8.580	53
333	West Kunlun Shan	ASTL1A 0412060533220412180064	06.12.2004	8.580	79
334	West Kunlun Shan	ASTL1A 0501160527300501270399	16.01.2005	-0.022	85
335	West Kunlun Shan	ASTL1A 0501160527390501270400	16.01.2005	-0.022	67
336	West Kunlun Shan	ASTL1A 0502010527270502120308	01.02.2005	-0.019	87
337	West Kunlun Shan	ASTL1A 0502010527360502120309	01.02.2005	-0.019	60
338	West Kunlun Shan	ASTL1A 0503120533440503180318	12.03.2005	8.578	95
339	West Kunlun Shan	ASTL1A 0510060533260510080508	06.10.2005	8.580	62
340	West Kunlun Shan	ASTL1A 0510060533350510080509	06.10.2005	8.580	53
341	West Kunlun Shan	ASTL1A 0602040526540602070254	04.02.2006	0.022	94
342	West Kunlun Shan	ASTL1A 0602040527030602070255	04.02.2006	0.022	67
343	West Kunlun Shan	ASTL1A 0602110533120602140125	11.02.2006	8.572	51
344	West Kunlun Shan	ASTL1A 0602110533210602140126	11.02.2006	8.572	76
345	West Kunlun Shan	ASTL1A 0704120528270704150324	12.04.2007	-0.022	48
346	West Kunlun Shan	ASTL1A 0704120528360704150325	12.04.2007	-0.022	43
347	West Kunlun Shan	ASTL1A 0711290534120712020139	29.11.2007	8.594	49
348	West Kunlun Shan	ASTL1A 0711290534210712020140	29.11.2007	8.594	80
349	West Kunlun Shan	ASTL1A 0712080528070712110194	08.12.2007	0.022	89
350	West Kunlun Shan	ASTL1A 0712080528160712110195	08.12.2007	0.022	80
351	West Kunlun Shan	ASTL1A 0801250528270801280093	25.01.2008	0.025	71

Table S2: List of all SPOT satellite images used in this study.

Instrument and Sensor	Processing level	Column (K)	Row (J)	Date	Incidence angle (°)
SPOT 4 HRVIR 1	L1A	208	288	22.09.2001	2.50
SPOT 5 HRG 1	L1A	208	288	17.12.2002	2.03
SPOT 5 HRG 1	L1A	208	288	11.07.2004	1.72
SPOT 5 HRG 2	L1A	208	288	31.08.2005	2.17
SPOT 5 HRG 2	L1A	208	288	06.10.2005	14.44
SPOT 5 HRG 1	L1A	208	288	17.11.2005	2.17

Table S3: List of all LANDSAT satellite images used in this study.

Instrument and Sensor	Processing level	Path	Row	Date
LANDSAT 5 TM	Orthorectified	148	39	29.06.1990
LANDSAT 5 TM	Orthorectified	142	40	11.10.1990
LANDSAT 5 TM	Orthorectified	145	39	15.11.1990
LANDSAT 5 TM	Orthorectified	145	35	15.11.1990
LANDSAT 5 TM	Orthorectified	145	36	17.10.1991
LANDSAT 5 TM	Orthorectified	140	41	17.11.1992
LANDSAT 7 ETM+	Orthorectified	150	35	16.09.1999
LANDSAT 7 ETM+	Orthorectified	147	37	29.09.2000
LANDSAT 7 ETM+	Orthorectified	143	39	10.03.2000
LANDSAT 7 ETM+	Orthorectified	146	38	10.08.2000
LANDSAT 7 ETM+	Orthorectified	147	38	15.10.2000
LANDSAT 7 ETM+	Orthorectified	147	37	15.10.2000
LANDSAT 7 ETM+	Orthorectified	148	37	22.10.2000
LANDSAT 7 ETM+	Orthorectified	151	35	27.10.2000
LANDSAT 7 ETM+	Orthorectified	138	40	17.11.2000
LANDSAT 7 ETM+	Orthorectified	139	41	26.12.2000
LANDSAT 7 ETM+	Orthorectified	149	35	30.09.2001
LANDSAT 7 ETM+	Orthorectified	138	41	20.11.2001

Table S4: Image correlation details. To obtain an estimate of the residual uncertainty in the displacement measurements, we take the mean and standard deviation in the east-west and north-south displacement maps over all pixels with <10 m absolute displacement [Scherler *et al.*, 2008]. Ideally, we first exclude all glacierized, non-stable areas and then compute these metrics over all the displacement values. However, this step is very labor intensive as it requires a manually generated mask hiding all glaciers, moving shadows, or other apparently moving features for each displacement map. Therefore, the 10-m absolute displacement threshold serves as a first-order mask for miscorrelated pixels and glacierized areas. This, however, leads to unintentional inclusion of some slow-moving ice, or shifting shadows in the statistics, ultimately resulting in a non-zero mean and a higher standard deviation. Therefore, we regard our estimates as upper limits for the expected uncertainties. Uncertainties in the annual velocities are derived from dividing the absolute displacement uncertainties by the temporal separation of the correlated images in. In most cases, the mean and standard deviation of the velocity uncertainty added are <2-4 m/yr. They are higher where images are separated by less than a year.

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
		Scene 1	Scene 2			East-West		North-South		Mean	SD	Mean	SD
						Mean	SD	Mean	SD				
1	Bhutan	20.01.2001	04.11.2001	0.789	2.8	0.031	2.629	-0.028	2.638	0.042	3.725	0.053	4.721
2	Bhutan	20.01.2001	20.11.2001	0.833	0.0	0.044	2.518	0.054	2.483	0.069	3.537	0.083	4.246
3	Bhutan	20.01.2001	10.01.2003	1.973	2.9	-0.044	2.587	-0.068	2.663	0.081	3.713	0.041	1.882

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
4	Bhutan	20.01.2001	15.01.2005	3.989	2.8	-0.085	2.568	-0.028	2.613	0.089	3.664	0.022	0.919
5	Bhutan	20.01.2001	18.01.2006	4.997	0.0	-0.071	2.826	0.025	2.891	0.075	4.043	0.015	0.809
6	Bhutan	20.01.2001	20.12.2006	5.918	1.4	0.004	3.250	-0.069	3.576	0.069	4.832	0.012	0.817
7	Bhutan	20.01.2001	22.02.2007	6.093	0.0	0.041	3.327	-0.217	3.645	0.221	4.935	0.036	0.810
8	Bhutan	04.11.2001	09.12.2002	1.096	0.0	-0.006	2.469	-0.065	2.686	0.065	3.649	0.060	3.330
9	Bhutan	04.11.2001	10.01.2003	1.184	0.0	-0.005	2.982	-0.132	3.156	0.132	4.342	0.111	3.669
10	Bhutan	20.11.2001	09.12.2002	1.052	2.9	-0.092	2.192	-0.009	2.436	0.093	3.277	0.088	3.115
11	Bhutan	20.11.2001	10.01.2003	1.140	2.9	-0.106	2.786	-0.249	2.906	0.270	4.026	0.237	3.532
12	Bhutan	20.11.2001	06.01.2005	3.132	8.6	-0.295	3.229	-0.074	2.749	0.304	4.241	0.097	1.354
13	Bhutan	20.11.2001	15.01.2005	3.156	2.8	-0.060	2.595	-0.022	2.619	0.064	3.686	0.020	1.168
14	Bhutan	20.11.2001	18.01.2006	4.164	0.0	-0.038	2.883	-0.016	2.838	0.041	4.045	0.010	0.971
15	Bhutan	20.11.2001	20.12.2006	5.085	1.4	-0.046	3.407	-0.022	3.717	0.051	5.042	0.010	0.992
16	Bhutan	10.01.2003	15.01.2005	2.016	0.0	-0.042	2.452	0.209	2.648	0.213	3.609	0.106	1.790
17	Bhutan	10.01.2003	28.09.2005	2.718	2.8	-0.068	3.197	0.151	3.262	0.166	4.567	0.061	1.681
18	Bhutan	10.01.2003	18.01.2006	3.025	2.9	-0.101	2.850	0.054	2.987	0.115	4.129	0.038	1.365
19	Bhutan	10.01.2003	05.01.2007	3.989	0.0	-0.029	2.608	0.059	2.831	0.066	3.849	0.017	0.965
20	Bhutan	10.01.2003	21.01.2007	4.033	2.9	-0.016	2.602	0.010	2.699	0.019	3.749	0.005	0.930
21	Bhutan	10.01.2003	22.02.2007	4.121	2.9	0.065	3.033	-0.317	3.328	0.323	4.503	0.078	1.093
22	Bhutan	06.01.2005	10.02.2006	1.096	0.0	0.086	2.856	-0.094	2.925	0.127	4.088	0.116	3.730
23	Bhutan	06.01.2005	26.02.2006	1.140	0.0	-0.003	2.775	0.027	2.792	0.027	3.937	0.024	3.454
24	Bhutan	06.01.2005	14.12.2007	2.937	0.0	0.014	2.523	0.043	2.489	0.045	3.545	0.015	1.207
25	Bhutan	15.01.2005	28.09.2005	0.701	2.8	-0.141	2.931	0.199	2.918	0.243	4.136	0.347	5.897
26	Bhutan	15.01.2005	18.01.2006	1.008	2.8	-0.065	2.546	0.090	2.501	0.111	3.568	0.110	3.539
27	Bhutan	15.01.2005	10.02.2006	1.071	11.4	-0.066	3.218	-0.020	3.075	0.069	4.451	0.065	4.155
28	Bhutan	15.01.2005	26.02.2006	1.115	11.4	-0.150	3.456	-0.101	3.154	0.181	4.679	0.163	4.196
29	Bhutan	15.01.2005	20.12.2006	1.929	1.4	-0.250	3.033	-0.240	3.300	0.347	4.504	0.180	2.335
30	Bhutan	15.01.2005	05.01.2007	1.973	0.0	-0.024	2.495	0.062	2.669	0.067	3.654	0.034	1.852
31	Bhutan	15.01.2005	21.01.2007	2.016	2.8	0.131	2.471	-0.128	2.527	0.183	3.534	0.091	1.752
32	Bhutan	15.01.2005	22.02.2007	2.104	2.8	0.211	3.176	-0.227	3.496	0.310	4.723	0.147	2.245
33	Bhutan	15.01.2005	13.05.2007	2.323	0.0	0.082	3.319	0.031	3.707	0.088	4.976	0.038	2.142
34	Bhutan	15.01.2005	29.05.2007	2.367	0.0	-0.023	3.145	0.023	3.717	0.033	4.870	0.014	2.057
35	Bhutan	15.01.2005	14.12.2007	2.912	11.4	-0.079	3.232	0.074	2.680	0.108	4.198	0.037	1.442
36	Bhutan	28.09.2005	18.01.2006	0.307	0.1	0.046	3.167	0.004	3.265	0.046	4.549	0.151	14.824
37	Bhutan	28.09.2005	20.12.2006	1.227	1.4	0.134	3.784	0.192	4.158	0.234	5.623	0.190	4.581
38	Bhutan	28.09.2005	05.01.2007	1.271	2.8	0.154	3.296	-0.241	3.310	0.286	4.671	0.225	3.674
39	Bhutan	28.09.2005	21.01.2007	1.315	0.0	0.203	3.277	-0.008	3.318	0.203	4.663	0.155	3.546
40	Bhutan	28.09.2005	22.02.2007	1.403	0.0	0.189	3.757	-0.092	3.933	0.210	5.440	0.150	3.878
41	Bhutan	28.09.2005	26.03.2007	1.490	0.0	0.256	3.360	-0.047	3.446	0.260	4.813	0.174	3.229
42	Bhutan	28.09.2005	29.05.2007	1.666	2.8	0.084	2.559	-0.040	2.758	0.094	3.762	0.056	2.259
43	Bhutan	18.01.2006	20.12.2006	0.921	1.5	0.144	3.427	-0.154	3.726	0.211	5.062	0.229	5.499
44	Bhutan	18.01.2006	05.01.2007	0.964	2.9	0.158	2.897	-0.124	2.942	0.200	4.129	0.208	4.281
45	Bhutan	18.01.2006	21.01.2007	1.008	0.0	0.056	2.620	-0.045	2.665	0.072	3.738	0.072	3.707
46	Bhutan	18.01.2006	22.02.2007	1.096	0.0	0.214	3.480	-0.274	3.837	0.348	5.180	0.317	4.727
47	Bhutan	18.01.2006	26.03.2007	1.184	0.0	0.159	3.153	-0.124	3.425	0.201	4.655	0.170	3.933
48	Bhutan	26.02.2006	21.01.2007	0.901	8.6	0.197	3.434	0.085	2.937	0.215	4.519	0.238	5.013
49	Bhutan	26.02.2006	22.02.2007	0.989	8.6	0.406	3.829	-0.019	3.513	0.406	5.196	0.411	5.254
50	Bhutan	26.02.2006	26.03.2007	1.077	8.6	0.296	3.651	-0.019	3.191	0.296	4.849	0.275	4.504
51	Bhutan	26.02.2006	14.12.2007	1.797	0.0	-0.256	3.187	0.139	3.276	0.291	4.571	0.162	2.543
52	Bhutan	20.12.2006	14.12.2007	0.984	10.0	-0.044	3.666	0.183	3.152	0.188	4.834	0.191	4.915
53	Bhutan	05.01.2007	14.12.2007	0.940	11.4	-0.095	3.378	0.195	2.968	0.217	4.497	0.231	4.785
54	Bhutan	21.01.2007	14.12.2007	0.896	8.6	-0.202	3.406	0.214	2.977	0.294	4.524	0.328	5.050
55	Kanchenjunga	07.10.2000	27.11.2001	1.140	0.0	-0.012	3.101	0.039	3.105	0.041	4.388	0.036	3.850
56	Kanchenjunga	07.10.2000	13.12.2001	1.184	0.0	0.070	3.103	0.030	3.146	0.076	4.419	0.064	3.734
57	Kanchenjunga	07.10.2000	30.01.2002	1.315	0.1	-0.027	3.812	-0.091	3.673	0.095	5.293	0.072	4.025
58	Kanchenjunga	07.10.2000	29.10.2002	2.060	2.9	-0.033	3.074	0.074	3.144	0.081	4.397	0.039	2.134
59	Kanchenjunga	07.10.2000	15.08.2004	3.858	0.0	0.051	3.338	-0.221	3.464	0.227	4.811	0.059	1.247
60	Kanchenjunga	01.12.2000	27.11.2001	0.989	8.6	0.007	3.913	-0.236	3.214	0.236	5.064	0.238	5.120
61	Kanchenjunga	01.12.2000	13.12.2001	1.033	8.6	0.050	3.902	-0.023	3.207	0.055	5.051	0.053	4.890

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
		Scene 1	Scene 2			East-West		North-South		Mean	SD	Mean	SD
						Mean	SD	Mean	SD				
62	Kanchenjunga	01.12.2000	05.01.2002	1.096	0.0	-0.223	2.736	0.076	2.550	0.236	3.740	0.215	3.413
63	Kanchenjunga	01.12.2000	30.01.2002	1.164	8.6	0.258	4.364	-0.265	3.626	0.370	5.673	0.317	4.872
64	Kanchenjunga	28.02.2001	29.10.2002	1.666	2.9	-0.076	3.288	0.218	3.414	0.230	4.740	0.138	2.846
65	Kanchenjunga	08.04.2001	13.05.2002	1.096	0.0	-0.075	3.526	0.041	3.454	0.086	4.936	0.078	4.504
66	Kanchenjunga	26.10.2001	04.04.2002	0.438	0.0	0.274	3.387	-0.498	3.599	0.568	4.943	1.296	11.275
67	Kanchenjunga	26.10.2001	29.10.2002	1.008	2.9	-0.137	2.317	0.114	2.342	0.178	3.295	0.176	3.268
68	Kanchenjunga	11.11.2001	29.10.2002	0.964	2.8	-0.018	2.649	-0.068	2.906	0.070	3.932	0.073	4.077
69	Kanchenjunga	11.11.2001	05.12.2004	3.068	2.8	-0.084	2.636	0.252	2.762	0.266	3.818	0.087	1.244
70	Kanchenjunga	27.11.2001	29.10.2002	0.921	2.9	0.104	2.960	-0.111	3.041	0.153	4.244	0.166	4.610
71	Kanchenjunga	27.11.2001	05.12.2004	3.025	2.9	-0.053	3.028	0.105	2.906	0.117	4.197	0.039	1.388
72	Kanchenjunga	27.11.2001	25.11.2006	4.997	2.9	-0.044	3.706	-0.133	3.695	0.140	5.234	0.028	1.047
73	Kanchenjunga	13.12.2001	29.10.2002	0.877	2.9	0.127	3.001	-0.192	3.081	0.230	4.301	0.262	4.906
74	Kanchenjunga	13.12.2001	05.12.2004	2.981	2.9	0.026	2.724	-0.133	2.752	0.135	3.872	0.045	1.299
75	Kanchenjunga	05.01.2002	29.10.2002	0.814	11.5	0.043	3.981	-0.212	3.078	0.216	5.032	0.266	6.184
76	Kanchenjunga	30.01.2002	29.10.2002	0.745	2.8	-0.108	3.653	0.097	3.604	0.145	5.131	0.195	6.886
77	Kanchenjunga	30.01.2002	05.12.2004	2.849	2.8	-0.101	3.718	0.346	3.569	0.360	5.154	0.126	1.809
78	Kanchenjunga	29.10.2002	05.12.2004	2.104	0.0	-0.087	2.977	0.294	3.048	0.306	4.261	0.146	2.025
79	Kanchenjunga	29.10.2002	30.12.2007	5.173	0.0	-0.108	3.133	0.194	3.146	0.222	4.440	0.043	0.858
80	Kanchenjunga	05.12.2004	09.11.2006	1.929	0.0	0.070	3.507	-0.093	3.688	0.116	5.089	0.060	2.638
81	Kanchenjunga	05.12.2004	25.11.2006	1.973	0.0	0.069	3.214	-0.145	3.397	0.161	4.677	0.081	2.371
82	Kanchenjunga	05.12.2004	12.11.2007	2.937	0.0	0.042	3.412	-0.118	3.405	0.125	4.821	0.043	1.641
83	Kanchenjunga	05.12.2004	30.12.2007	3.068	0.0	-0.313	2.899	0.278	2.867	0.419	4.077	0.136	1.329
84	Kanchenjunga	09.11.2006	12.11.2007	1.008	0.0	-0.008	3.205	0.093	3.284	0.094	4.589	0.093	4.551
85	Kanchenjunga	25.11.2006	12.11.2007	0.964	0.0	0.017	3.254	0.093	3.284	0.095	4.623	0.098	4.794
86	Khumbu (South)	28.09.2000	20.12.2001	1.227	2.9	0.289	3.654	-0.449	3.681	0.534	5.186	0.435	4.225
87	Khumbu (South)	28.09.2000	04.10.2002	2.016	0.0	-0.044	2.892	-0.228	3.124	0.232	4.257	0.115	2.111
88	Khumbu (South)	28.09.2000	09.10.2004	4.033	2.9	-0.036	3.003	0.031	3.072	0.047	4.296	0.012	1.065
89	Khumbu (South)	28.09.2000	25.10.2004	4.077	0.0	0.106	3.258	-0.040	3.195	0.113	4.564	0.028	1.119
90	Khumbu (South)	14.10.2000	20.12.2001	1.184	0.0	-0.005	3.312	-0.112	3.361	0.113	4.719	0.095	3.987
91	Khumbu (South)	14.10.2000	04.10.2002	1.973	2.9	-0.048	2.862	-0.173	2.842	0.179	4.034	0.091	2.045
92	Khumbu (South)	14.10.2000	21.11.2002	2.104	0.1	0.110	3.137	-0.063	3.488	0.127	4.692	0.061	2.230
93	Khumbu (South)	14.10.2000	08.01.2003	2.236	0.1	0.161	3.508	-0.175	3.603	0.238	5.029	0.106	2.249
94	Khumbu (South)	14.10.2000	23.10.2003	3.025	0.0	-0.007	2.978	-0.003	3.037	0.008	4.253	0.003	1.406
95	Khumbu (South)	14.10.2000	09.10.2004	3.989	0.0	0.056	3.107	-0.070	2.969	0.090	4.297	0.022	1.077
96	Khumbu (South)	14.10.2000	25.10.2004	4.033	2.9	-0.089	3.133	-0.064	3.093	0.110	4.402	0.027	1.092
97	Khumbu (South)	14.10.2000	10.11.2004	4.077	1.5	-0.036	2.970	0.055	3.066	0.066	4.268	0.016	1.047
98	Khumbu (South)	20.12.2001	04.10.2002	0.789	2.9	-0.090	3.021	-0.106	3.294	0.139	4.469	0.177	5.664
99	Khumbu (South)	20.12.2001	21.11.2002	0.921	0.1	0.151	2.502	0.076	2.827	0.169	3.775	0.184	4.101
100	Khumbu (South)	20.12.2001	08.01.2003	1.052	0.1	0.030	2.811	-0.234	3.061	0.236	4.156	0.224	3.950
101	Khumbu (South)	20.12.2001	23.10.2003	1.841	0.0	-0.012	2.599	-0.116	2.730	0.116	3.769	0.063	2.047
102	Khumbu (South)	20.12.2001	10.11.2004	2.893	1.5	0.045	2.591	-0.094	2.682	0.104	3.729	0.036	1.289
103	Khumbu (South)	20.12.2001	13.11.2005	3.901	0.0	0.033	2.596	-0.077	2.604	0.084	3.678	0.021	0.943
104	Khumbu (South)	20.12.2001	29.11.2005	3.945	0.0	0.003	2.438	-0.104	2.526	0.104	3.510	0.026	0.890
105	Khumbu (South)	20.12.2001	15.12.2005	3.989	0.0	-0.054	2.406	-0.017	2.442	0.057	3.428	0.014	0.859
106	Khumbu (South)	20.12.2001	01.02.2006	4.121	2.9	-0.030	2.525	-0.090	2.522	0.095	3.569	0.023	0.866
107	Khumbu (South)	20.12.2001	19.01.2007	5.085	2.9	-0.064	2.568	-0.152	2.622	0.166	3.670	0.033	0.722
108	Khumbu (South)	04.10.2002	08.01.2003	0.263	2.8	0.215	3.186	-0.111	3.264	0.242	4.561	0.919	17.343
109	Khumbu (South)	04.10.2002	23.10.2003	1.052	2.8	0.192	2.788	0.060	2.735	0.201	3.906	0.191	3.712
110	Khumbu (South)	04.10.2002	09.10.2004	2.016	2.9	-0.052	2.704	0.119	2.683	0.130	3.809	0.064	1.889
111	Khumbu (South)	04.10.2002	10.11.2004	2.104	1.3	-0.102	2.955	-0.210	3.219	0.233	4.370	0.111	2.077
112	Khumbu (South)	04.10.2002	13.11.2005	3.112	2.9	0.031	2.984	0.007	3.169	0.031	4.353	0.010	1.399
113	Khumbu (South)	04.10.2002	29.11.2005	3.156	2.8	0.139	3.194	0.452	3.306	0.473	4.597	0.150	1.457
114	Khumbu (South)	04.10.2002	15.12.2005	3.200	2.8	-0.031	3.244	-0.029	3.401	0.043	4.700	0.013	1.469
115	Khumbu (South)	04.10.2002	19.01.2007	4.296	0.0	-0.018	3.263	-0.113	3.374	0.114	4.694	0.027	1.093
116	Khumbu (South)	21.11.2002	23.10.2003	0.921	0.1	-0.019	2.469	-0.125	2.605	0.126	3.589	0.137	3.899
117	Khumbu (South)	21.11.2002	10.11.2004	1.973	1.4	0.011	2.299	-0.086	2.347	0.087	3.285	0.044	1.665
118	Khumbu (South)	21.11.2002	29.11.2005	3.025	0.0	-0.136	2.399	0.247	2.507	0.282	3.470	0.093	1.147
119	Khumbu (South)	08.01.2003	09.10.2004	1.753	0.1	-0.048	3.693	0.132	3.571	0.141	5.137	0.080	2.930

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
120	Khumbu (South)	08.01.2003	10.11.2004	1.841	1.5	-0.051	2.881	0.037	2.955	0.063	4.127	0.034	2.242
121	Khumbu (South)	08.01.2003	13.11.2005	2.849	0.1	-0.199	3.158	0.082	3.210	0.215	4.504	0.075	1.581
122	Khumbu (South)	08.01.2003	29.11.2005	2.893	0.0	-0.124	2.915	0.127	3.028	0.177	4.203	0.061	1.453
123	Khumbu (South)	08.01.2003	15.12.2005	2.937	0.0	-0.006	2.859	0.149	3.017	0.150	4.156	0.051	1.415
124	Khumbu (South)	08.01.2003	19.01.2007	4.033	2.8	-0.081	2.822	-0.044	3.022	0.092	4.134	0.023	1.025
125	Khumbu (South)	23.10.2003	09.10.2004	0.964	0.0	0.017	2.880	0.037	2.921	0.041	4.102	0.042	4.253
126	Khumbu (South)	23.10.2003	10.11.2004	1.052	1.5	0.025	2.430	0.108	2.534	0.111	3.511	0.106	3.338
127	Khumbu (South)	23.10.2003	13.11.2005	2.060	0.0	-0.075	2.630	0.136	2.680	0.155	3.755	0.075	1.822
128	Khumbu (South)	23.10.2003	29.11.2005	2.104	0.0	-0.103	2.491	0.125	2.534	0.162	3.553	0.077	1.689
129	Khumbu (South)	23.10.2003	15.12.2005	2.148	0.0	-0.029	2.596	0.026	2.625	0.039	3.692	0.018	1.719
130	Khumbu (South)	23.10.2003	01.02.2006	2.279	2.9	-0.042	2.538	0.073	2.467	0.084	3.540	0.037	1.553
131	Khumbu (South)	09.10.2004	19.01.2007	2.279	2.9	-0.032	3.158	-0.144	3.215	0.147	4.507	0.065	1.977
132	Khumbu (South)	25.10.2004	13.11.2005	1.052	2.9	-0.147	3.035	0.247	3.060	0.288	4.310	0.274	4.097
133	Khumbu (South)	25.10.2004	29.11.2005	1.096	2.9	-0.083	3.119	-0.064	3.156	0.105	4.437	0.096	4.048
134	Khumbu (South)	25.10.2004	15.12.2005	1.140	2.9	-0.167	3.293	0.020	3.314	0.169	4.672	0.148	4.099
135	Khumbu (South)	25.10.2004	19.01.2007	2.236	0.0	-0.018	3.287	-0.106	3.461	0.108	4.774	0.048	2.135
136	Khumbu (South)	10.11.2004	13.11.2005	1.008	1.5	-0.089	2.338	0.003	2.527	0.089	3.442	0.088	3.414
137	Khumbu (South)	10.11.2004	29.11.2005	1.052	1.5	-0.129	2.416	0.002	2.520	0.129	3.491	0.123	3.318
138	Khumbu (South)	10.11.2004	15.12.2005	1.096	1.5	-0.133	2.548	-0.009	2.619	0.134	3.654	0.122	3.335
139	Khumbu (South)	10.11.2004	01.02.2006	1.227	1.4	-0.097	2.655	-0.038	2.654	0.104	3.754	0.085	3.059
140	Khumbu (South)	10.11.2004	19.01.2007	2.192	1.4	-0.104	2.690	-0.042	2.687	0.112	3.802	0.051	1.735
141	Khumbu (South)	15.12.2005	19.01.2007	1.096	2.9	-0.060	2.409	-0.293	2.431	0.299	3.422	0.272	3.122
142	Khumbu (South)	01.02.2006	19.01.2007	0.964	0.0	-0.022	2.372	-0.234	2.532	0.235	3.470	0.244	3.598
143	Khumbu (North)	28.09.2000	04.10.2002	2.016	0.0	0.035	2.017	0.063	2.007	0.072	2.845	0.036	1.411
144	Khumbu (North)	28.09.2000	09.10.2004	4.033	2.9	-0.008	2.215	0.084	2.231	0.084	3.144	0.021	0.780
145	Khumbu (North)	28.09.2000	25.10.2004	4.077	0.0	0.043	2.604	0.090	2.702	0.100	3.752	0.024	0.920
146	Khumbu (North)	28.09.2000	10.11.2004	4.121	1.4	0.068	2.541	0.056	2.603	0.088	3.637	0.021	0.883
147	Khumbu (North)	28.09.2000	19.01.2007	6.312	0.0	0.101	2.908	0.009	2.861	0.101	4.080	0.016	0.646
148	Khumbu (North)	14.10.2000	20.12.2001	1.184	0.0	0.026	2.221	-0.019	2.227	0.032	3.145	0.027	2.657
149	Khumbu (North)	14.10.2000	04.10.2002	1.973	2.9	-0.003	1.731	0.016	1.725	0.016	2.444	0.008	1.239
150	Khumbu (North)	14.10.2000	08.01.2003	2.236	0.1	0.124	2.998	-0.106	2.905	0.163	4.175	0.073	1.868
151	Khumbu (North)	14.10.2000	23.10.2003	3.025	0.0	0.013	1.929	0.052	1.879	0.054	2.693	0.018	0.890
152	Khumbu (North)	14.10.2000	09.10.2004	3.989	0.0	-0.002	1.985	0.018	1.964	0.018	2.793	0.004	0.700
153	Khumbu (North)	14.10.2000	25.10.2004	4.033	2.9	-0.026	2.307	0.026	2.297	0.037	3.256	0.009	0.807
154	Khumbu (North)	14.10.2000	10.11.2004	4.077	1.5	-0.010	2.100	0.064	2.085	0.064	2.959	0.016	0.726
155	Khumbu (North)	30.10.2000	20.12.2001	1.140	0.1	0.009	1.901	0.030	1.866	0.031	2.664	0.028	2.338
156	Khumbu (North)	30.10.2000	04.10.2002	1.929	2.8	-0.007	1.837	0.012	1.859	0.014	2.614	0.007	1.355
157	Khumbu (North)	30.10.2000	08.01.2003	2.192	0.0	0.088	3.060	-0.203	3.015	0.221	4.296	0.101	1.960
158	Khumbu (North)	30.10.2000	23.10.2003	2.981	0.0	0.008	1.664	-0.003	1.709	0.008	2.385	0.003	0.800
159	Khumbu (North)	30.10.2000	09.10.2004	3.945	0.0	-0.020	1.904	-0.058	2.052	0.061	2.800	0.015	0.710
160	Khumbu (North)	30.10.2000	10.11.2004	4.033	1.5	-0.026	2.019	0.009	2.004	0.028	2.845	0.007	0.705
161	Khumbu (North)	30.10.2000	19.01.2007	6.225	2.8	0.009	2.286	0.047	2.088	0.048	3.096	0.008	0.497
162	Khumbu (North)	20.12.2001	04.10.2002	0.789	2.9	-0.011	2.049	0.053	2.130	0.054	2.956	0.069	3.746
163	Khumbu (North)	20.12.2001	08.01.2003	1.052	0.1	0.082	2.699	-0.382	2.855	0.391	3.928	0.371	3.734
164	Khumbu (North)	20.12.2001	23.10.2003	1.841	0.0	0.023	1.817	0.003	1.872	0.023	2.609	0.012	1.417
165	Khumbu (North)	20.12.2001	09.10.2004	2.805	0.0	0.001	2.098	0.019	2.118	0.019	2.981	0.007	1.063
166	Khumbu (North)	20.12.2001	10.11.2004	2.893	1.5	-0.009	1.964	-0.017	1.958	0.019	2.774	0.007	0.959
167	Khumbu (North)	20.12.2001	19.01.2007	5.085	2.9	-0.034	1.959	-0.030	1.811	0.045	2.667	0.009	0.525
168	Khumbu (North)	04.10.2002	23.10.2003	1.052	2.8	0.037	1.658	0.054	1.636	0.065	2.329	0.062	2.214
169	Khumbu (North)	04.10.2002	09.10.2004	2.016	2.9	-0.007	1.767	0.026	1.792	0.027	2.517	0.014	1.248
170	Khumbu (North)	04.10.2002	25.10.2004	2.060	0.0	0.020	2.153	0.024	2.206	0.031	3.083	0.015	1.496
171	Khumbu (North)	04.10.2002	10.11.2004	2.104	1.3	-0.003	2.049	0.035	2.194	0.035	3.002	0.017	1.427
172	Khumbu (North)	04.10.2002	19.01.2007	4.296	0.0	-0.039	2.572	-0.026	2.646	0.047	3.690	0.011	0.859
173	Khumbu (North)	08.01.2003	23.10.2003	0.789	0.0	-0.096	2.936	0.171	2.901	0.196	4.127	0.248	5.231
174	Khumbu (North)	08.01.2003	09.10.2004	1.753	0.1	-0.170	3.052	0.185	3.005	0.251	4.283	0.143	2.443
175	Khumbu (North)	08.01.2003	10.11.2004	1.841	1.5	-0.069	2.739	0.129	2.750	0.146	3.882	0.079	2.108
176	Khumbu (North)	23.10.2003	09.10.2004	0.964	0.0	0.000	1.597	-0.006	1.599	0.006	2.260	0.006	2.343
177	Khumbu (North)	23.10.2003	10.11.2004	1.052	1.5	-0.008	1.721	0.015	1.724	0.016	2.436	0.016	2.316

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
178	Khumbu (North)	23.10.2003	19.01.2007	3.244	2.9	-0.037	2.093	0.020	1.929	0.042	2.847	0.013	0.878
179	Khumbu (North)	09.10.2004	19.01.2007	2.279	2.9	0.028	2.243	0.009	2.236	0.029	3.167	0.013	1.389
180	Khumbu (North)	25.10.2004	19.01.2007	2.236	0.0	0.062	2.548	0.117	2.560	0.133	3.612	0.059	1.616
181	Khumbu (North)	10.11.2004	19.01.2007	2.192	1.4	-0.020	2.123	0.072	2.141	0.075	3.015	0.034	1.376
182	Manaslu	29.11.2000	02.10.2002	1.841	0.0	-0.188	3.142	0.043	3.178	0.193	4.469	0.105	2.427
183	Manaslu	29.11.2000	05.10.2003	2.849	0.0	-0.160	3.005	0.056	3.087	0.169	4.308	0.059	1.512
184	Manaslu	29.11.2000	10.02.2004	3.200	0.0	0.011	3.624	-0.083	3.707	0.084	5.184	0.026	1.620
185	Manaslu	15.12.2000	02.10.2002	1.797	0.0	0.108	2.727	0.074	2.960	0.131	4.024	0.073	2.239
186	Manaslu	15.12.2000	05.10.2003	2.805	0.0	-0.004	2.577	-0.011	2.707	0.011	3.738	0.004	1.332
187	Manaslu	17.02.2001	05.10.2003	2.630	2.9	-0.147	4.045	0.157	3.900	0.215	5.619	0.082	2.136
188	Manaslu	17.02.2001	10.02.2004	2.981	2.9	0.035	3.717	0.109	3.858	0.115	5.357	0.038	1.797
189	Manaslu	17.02.2001	07.04.2007	6.137	0.0	0.059	3.609	-0.133	3.773	0.145	5.221	0.024	0.851
190	Manaslu	02.10.2002	05.10.2003	1.008	0.0	-0.019	2.145	0.021	2.260	0.028	3.116	0.028	3.091
191	Manaslu	03.11.2002	23.10.2004	1.973	0.0	-0.004	2.941	-0.015	2.831	0.015	4.082	0.008	2.069
192	Manaslu	03.11.2002	26.12.2004	2.148	0.0	0.033	2.886	-0.016	2.815	0.037	4.032	0.017	1.877
193	Manaslu	13.03.2004	23.10.2004	0.614	0.0	-0.014	3.255	0.084	3.366	0.086	4.682	0.139	7.629
194	Manaslu	13.03.2004	17.11.2004	0.682	11.5	-0.253	4.269	0.166	3.448	0.303	5.487	0.444	8.044
195	Manaslu	13.03.2004	03.12.2004	0.726	11.5	0.088	4.501	0.196	3.410	0.214	5.647	0.295	7.778
196	Manaslu	13.03.2004	07.04.2007	3.068	2.9	0.052	3.050	0.125	2.978	0.135	4.262	0.044	1.389
197	Manaslu	13.03.2004	04.01.2008	3.814	2.9	-0.127	3.388	0.231	3.410	0.264	4.807	0.069	1.260
198	Manaslu	23.10.2004	07.11.2006	2.041	14.3	-0.029	3.905	-0.013	2.886	0.032	4.856	0.016	2.379
199	Manaslu	23.10.2004	07.04.2007	2.455	2.9	-0.033	3.666	-0.032	3.649	0.046	5.172	0.019	2.107
200	Manaslu	23.10.2004	04.01.2008	3.200	2.9	-0.189	3.029	0.201	2.965	0.276	4.239	0.086	1.325
201	Manaslu	03.12.2004	07.11.2006	1.929	2.9	0.095	3.198	0.040	2.966	0.103	4.362	0.053	2.262
202	Manaslu	26.12.2004	07.11.2006	1.866	14.3	0.024	3.718	-0.016	3.060	0.029	4.815	0.016	2.581
203	Manaslu	26.12.2004	04.01.2008	3.025	2.9	-0.024	2.558	-0.017	2.541	0.029	3.606	0.010	1.192
204	Manaslu	07.11.2006	04.01.2008	1.159	11.5	-0.140	4.123	0.058	2.930	0.152	5.058	0.131	4.364
205	Manaslu	07.04.2007	04.01.2008	0.745	0.0	-0.120	3.544	0.179	3.696	0.216	5.120	0.289	6.871
206	Gurla Mandatha	31.10.2001	28.12.2002	1.159	8.6	-0.270	3.413	-0.198	2.854	0.336	4.450	0.289	3.839
207	Gurla Mandatha	31.10.2001	26.09.2003	1.904	10.5	-0.382	3.304	-0.062	2.654	0.387	4.238	0.203	2.226
208	Gurla Mandatha	03.01.2002	28.12.2002	0.984	8.6	-0.282	3.790	0.216	3.239	0.355	4.986	0.361	5.069
209	Gurla Mandatha	03.01.2002	23.12.2006	4.973	10.0	-0.054	3.509	0.287	3.090	0.292	4.676	0.059	0.940
210	Gurla Mandatha	28.12.2002	26.09.2003	0.745	1.9	-0.025	2.581	0.088	2.702	0.092	3.736	0.124	5.014
211	Gurla Mandatha	28.12.2002	10.10.2005	2.786	8.6	0.090	3.532	0.010	3.158	0.090	4.737	0.032	1.700
212	Gurla Mandatha	28.12.2002	23.12.2006	3.989	1.4	0.030	3.689	-0.110	4.162	0.114	5.562	0.029	1.394
213	Gurla Mandatha	14.02.2003	23.12.2006	3.858	1.4	0.086	2.522	-0.034	2.777	0.093	3.751	0.024	0.972
214	Gurla Mandatha	23.02.2003	23.12.2006	3.833	10.0	-0.004	3.600	-0.368	3.368	0.368	4.930	0.096	1.286
215	Gurla Mandatha	26.09.2003	10.10.2005	2.041	10.5	0.530	3.005	-0.063	2.351	0.534	3.815	0.261	1.869
216	Gurla Mandatha	26.09.2003	23.12.2006	3.244	0.5	-0.044	4.241	0.581	4.427	0.583	6.130	0.180	1.890
217	Gurla Mandatha	23.12.2006	14.04.2007	0.307	1.4	-0.089	3.351	-0.374	3.937	0.385	5.170	1.254	16.849
218	Gurla Mandatha	23.12.2006	19.07.2007	0.570	1.4	-0.041	4.225	-0.312	4.288	0.315	6.020	0.552	10.563
219	Gurla Mandatha	23.12.2006	15.11.2007	0.896	7.2	-0.076	4.035	0.200	3.645	0.214	5.438	0.239	6.070
220	Gurla Mandatha	14.04.2007	19.07.2007	0.263	0.0	-0.229	3.891	0.263	4.107	0.348	5.658	1.324	21.511
221	Gurla Mandatha	14.04.2007	15.11.2007	0.589	8.6	-0.349	3.972	0.538	3.889	0.641	5.558	1.088	9.436
222	Garhwal (Gangotri)	09.11.2000	09.09.2001	0.833	2.9	0.144	3.354	0.457	3.374	0.479	4.757	0.575	5.712
223	Garhwal (Gangotri)	09.11.2000	10.10.2003	2.918	14.3	0.004	5.376	0.100	3.679	0.100	6.515	0.034	2.233
224	Garhwal (Gangotri)	10.11.2000	19.08.2005	4.775	2.8	0.183	3.891	0.098	4.020	0.208	5.595	0.044	1.172
225	Garhwal (Gangotri)	11.11.2000	09.10.2006	5.912	2.8	-0.297	3.490	-0.041	3.079	0.300	4.655	0.051	0.787
226	Garhwal (Gangotri)	09.09.2001	10.10.2003	2.085	11.4	0.003	3.487	-0.007	2.811	0.008	4.479	0.004	2.148
227	Garhwal (Gangotri)	09.09.2001	24.07.2004	2.874	14.3	0.299	3.268	-0.218	3.269	0.370	4.622	0.129	1.608
228	Garhwal (Gangotri)	09.09.2001	23.09.2006	5.041	2.8	0.267	3.098	-0.096	2.864	0.284	4.219	0.056	0.837
229	Garhwal (Gangotri)	09.09.2001	09.10.2006	5.085	0.0	0.145	3.297	0.014	2.935	0.146	4.414	0.029	0.868
230	Garhwal (Gangotri)	09.09.2001	10.11.2006	5.173	2.8	-0.016	3.334	-0.062	3.213	0.064	4.630	0.012	0.895
231	Garhwal (Gangotri)	21.11.2001	10.10.2003	1.885	2.9	0.181	3.114	0.013	2.729	0.181	4.141	0.096	2.197
232	Garhwal (Gangotri)	21.11.2001	24.07.2004	2.674	0.0	0.316	3.759	-0.051	3.919	0.320	5.430	0.120	2.031
233	Garhwal (Gangotri)	21.11.2001	15.10.2005	3.901	0.0	0.454	3.235	-0.075	3.174	0.460	4.532	0.118	1.162
234	Garhwal (Gangotri)	23.12.2001	10.10.2003	1.797	2.9	-0.389	4.298	0.169	3.780	0.424	5.724	0.236	3.185
235	Garhwal (Gangotri)	23.12.2001	06.11.2007	5.874	0.0	0.060	4.076	-0.181	3.733	0.191	5.527	0.032	0.941

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
236	Garhwal (Gangotri)	23.12.2001	22.11.2007	5.918	0.0	0.075	3.628	-0.090	3.552	0.117	5.077	0.020	0.858
237	Garhwal (Gangotri)	08.01.2002	10.10.2003	1.753	2.9	-0.022	4.051	0.289	3.933	0.290	5.646	0.165	3.220
238	Garhwal (Gangotri)	08.01.2002	15.10.2005	3.770	0.0	-0.028	3.799	0.079	3.972	0.084	5.496	0.022	1.458
239	Garhwal (Gangotri)	10.10.2003	24.07.2004	0.789	2.9	0.116	3.366	0.308	3.276	0.329	4.697	0.416	5.953
240	Garhwal (Gangotri)	11.10.2003	18.08.2005	1.855	11.5	0.230	4.842	0.385	4.251	0.448	6.444	0.242	3.474
241	Garhwal (Gangotri)	11.10.2003	15.10.2005	2.014	2.9	0.228	3.208	0.227	2.878	0.322	4.309	0.160	2.140
242	Garhwal (Gangotri)	11.10.2003	23.09.2006	2.953	8.6	1.165	4.791	-0.462	3.564	1.254	5.972	0.425	2.022
243	Garhwal (Gangotri)	12.10.2003	09.10.2006	2.995	11.5	0.135	4.449	0.107	3.275	0.172	5.525	0.058	1.845
244	Garhwal (Gangotri)	24.07.2004	19.08.2005	1.071	14.3	-0.074	4.070	0.191	3.179	0.204	5.165	0.191	4.821
245	Garhwal (Gangotri)	24.07.2004	15.10.2005	1.227	0.0	0.039	3.489	-0.016	3.600	0.042	5.013	0.034	4.084
246	Garhwal (Gangotri)	24.07.2004	09.10.2006	2.211	14.3	-0.124	5.202	-0.037	3.683	0.129	6.373	0.058	2.883
247	Garhwal (Gangotri)	24.07.2004	10.11.2006	2.299	11.5	0.069	5.283	0.059	4.180	0.091	6.737	0.040	2.931
248	Garhwal (Gangotri)	19.08.2005	23.09.2006	1.096	2.9	-0.070	3.499	-0.038	3.732	0.079	5.115	0.072	4.668
249	Garhwal (Gangotri)	19.08.2005	18.10.2006	1.164	11.5	0.101	5.177	0.250	4.167	0.269	6.646	0.231	5.707
250	Garhwal (Gangotri)	19.08.2005	10.11.2006	1.227	2.9	-0.104	3.682	-0.221	3.989	0.244	5.428	0.199	4.423
251	Garhwal (Gangotri)	15.10.2005	23.09.2006	0.940	11.5	0.045	4.614	-0.021	3.591	0.050	5.847	0.053	6.222
252	Garhwal (Gangotri)	15.10.2005	09.10.2006	0.984	14.3	0.122	4.330	0.081	3.426	0.147	5.521	0.149	5.614
253	Garhwal (Gangotri)	15.10.2005	18.10.2006	1.008	2.9	0.010	3.525	0.242	2.859	0.242	4.539	0.240	4.502
254	Garhwal (Gangotri)	15.10.2005	10.11.2006	1.071	11.5	-0.008	4.428	0.226	3.423	0.226	5.596	0.211	5.224
255	Garhwal (Gangotri)	23.09.2006	09.10.2006	0.044	2.9	-0.049	2.417	0.142	2.261	0.151	3.310	3.438	75.502
256	Garhwal (Gangotri)	23.09.2006	10.11.2006	0.132	0.0	0.165	2.957	0.301	3.063	0.343	4.258	2.608	32.376
257	Garhwal (Gangotri)	18.10.2006	06.11.2007	1.052	2.9	-0.218	3.769	-0.016	3.405	0.218	5.080	0.207	4.828
258	Garhwal (Tons)	07.12.2001	01.10.2003	1.816	8.6	-0.087	3.854	0.073	3.546	0.114	5.237	0.063	2.883
259	Garhwal (Tons)	07.12.2001	22.10.2005	3.877	8.6	0.194	3.691	0.082	3.200	0.210	4.885	0.054	1.260
260	Garhwal (Tons)	30.12.2001	01.10.2003	1.753	0.0	-0.058	2.879	0.066	3.353	0.088	4.420	0.050	2.521
261	Garhwal (Tons)	30.12.2001	09.03.2004	2.192	0.0	0.064	3.146	-0.102	3.336	0.121	4.585	0.055	2.092
262	Garhwal (Tons)	30.12.2001	04.11.2004	2.849	0.0	-0.002	2.296	0.008	2.525	0.008	3.413	0.003	1.198
263	Garhwal (Tons)	30.12.2001	22.10.2005	3.814	0.0	0.117	2.687	0.047	2.913	0.126	3.963	0.033	1.039
264	Garhwal (Tons)	01.10.2003	09.03.2004	0.438	0.0	0.177	3.602	-0.572	4.122	0.598	5.474	1.365	12.488
265	Garhwal (Tons)	01.10.2003	01.09.2004	0.921	0.0	-0.025	2.859	0.218	3.153	0.220	4.257	0.239	4.624
266	Garhwal (Tons)	01.10.2003	04.11.2004	1.096	0.0	0.296	2.518	-0.115	2.923	0.317	3.858	0.289	3.520
267	Garhwal (Tons)	01.10.2003	22.10.2005	2.060	0.0	0.117	2.057	0.109	2.334	0.159	3.111	0.077	1.510
268	Garhwal (Tons)	01.10.2003	13.11.2007	4.121	0.0	-0.006	2.501	0.000	2.932	0.006	3.854	0.002	0.935
269	Garhwal (Tons)	09.03.2004	04.11.2004	0.658	0.0	-0.019	3.327	0.140	3.629	0.142	4.924	0.215	7.488
270	Garhwal (Tons)	09.03.2004	13.11.2007	3.682	0.0	-0.057	3.575	-0.120	4.023	0.133	5.382	0.036	1.462
271	Garhwal (Tons)	01.09.2004	04.11.2004	0.175	0.0	0.046	3.409	0.459	4.155	0.461	5.375	2.630	30.652
272	Garhwal (Tons)	01.09.2004	13.11.2007	3.200	0.0	0.020	3.549	-0.213	4.090	0.214	5.415	0.067	1.692
273	Garhwal (Tons)	04.11.2004	22.10.2005	0.964	0.0	-0.024	2.071	0.051	2.295	0.056	3.091	0.058	3.205
274	Garhwal (Tons)	04.11.2004	13.11.2007	3.025	0.0	-0.044	2.097	0.070	2.260	0.083	3.083	0.027	1.019
275	Garhwal (Tons)	22.10.2005	13.11.2007	2.060	0.0	-0.024	2.066	-0.018	2.220	0.030	3.033	0.015	1.472
276	Leo Pargil	17.03.2001	24.04.2003	2.104	2.9	0.147	2.597	0.039	2.927	0.152	3.913	0.072	1.860
277	Leo Pargil	17.03.2001	01.10.2003	2.542	2.8	-0.134	2.707	0.448	2.931	0.467	3.990	0.184	1.569
278	Leo Pargil	17.03.2001	17.10.2003	2.586	0.0	0.021	2.987	1.015	3.210	1.015	4.385	0.392	1.695
279	Leo Pargil	17.03.2001	04.11.2004	3.638	2.8	0.013	2.698	-0.004	3.150	0.013	4.147	0.004	1.140
280	Leo Pargil	17.03.2001	31.12.2007	6.795	2.9	-0.018	2.648	0.114	2.938	0.115	3.955	0.017	0.582
281	Leo Pargil	21.11.2001	04.11.2004	2.956	8.6	-0.146	3.016	-0.165	2.322	0.220	3.806	0.075	1.287
282	Leo Pargil	21.11.2001	22.10.2005	3.921	8.6	0.089	3.506	-0.088	2.955	0.125	4.585	0.032	1.170
283	Leo Pargil	24.04.2003	04.11.2004	1.534	0.0	-0.249	3.738	0.300	4.019	0.390	5.488	0.254	3.577
284	Leo Pargil	24.04.2003	22.10.2005	2.499	0.0	-0.228	3.875	0.304	4.279	0.380	5.772	0.152	2.310
285	Leo Pargil	01.10.2003	01.09.2004	0.921	0.0	0.077	1.753	-0.040	1.957	0.087	2.627	0.094	2.854
286	Leo Pargil	01.10.2003	04.11.2004	1.096	0.0	0.147	2.404	0.218	2.497	0.263	3.466	0.240	3.163
287	Leo Pargil	01.10.2003	22.10.2005	2.060	0.0	0.146	1.969	0.176	2.304	0.229	3.031	0.111	1.471
288	Leo Pargil	01.10.2003	01.11.2006	3.088	8.6	-0.129	2.819	0.063	2.096	0.143	3.513	0.046	1.138
289	Leo Pargil	01.10.2003	06.06.2007	3.682	0.0	0.296	2.646	-0.369	3.178	0.473	4.136	0.129	1.123
290	Leo Pargil	01.10.2003	13.11.2007	4.121	0.0	0.191	2.716	0.130	2.781	0.231	3.888	0.056	0.943
291	Leo Pargil	01.10.2003	31.12.2007	4.252	0.1	0.302	3.227	-0.220	3.276	0.373	4.598	0.088	1.081
292	Leo Pargil	02.11.2003	31.12.2007	4.164	2.9	0.193	3.055	-0.466	3.209	0.504	4.431	0.121	1.064
293	Leo Pargil	01.09.2004	22.10.2005	1.140	0.0	0.013	2.335	0.259	2.541	0.260	3.451	0.228	3.028

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
		Scene 1	Scene 2			East-West		North-South		Mean	SD	Mean	SD
						Mean	SD	Mean	SD				
294	Leo Pargil	01.09.2004	06.06.2007	2.762	0.0	0.314	2.696	-0.411	2.912	0.518	3.968	0.187	1.437
295	Leo Pargil	04.11.2004	22.10.2005	0.964	0.0	-0.052	2.015	-0.054	2.210	0.075	2.990	0.078	3.101
296	Leo Pargil	04.11.2004	13.11.2007	3.025	0.0	0.029	2.353	-0.002	2.417	0.029	3.373	0.009	1.115
297	Leo Pargil	04.11.2004	31.12.2007	3.156	0.0	0.123	2.857	0.229	3.056	0.260	4.183	0.082	1.325
298	Leo Pargil	22.10.2005	06.06.2007	1.622	0.0	0.285	2.941	-0.212	3.525	0.355	4.590	0.219	2.830
299	Leo Pargil	22.10.2005	13.11.2007	2.060	0.0	0.090	2.548	0.031	2.660	0.095	3.683	0.046	1.788
300	Leo Pargil	22.10.2005	31.12.2007	2.192	0.0	0.195	3.098	0.063	3.397	0.205	4.597	0.093	2.098
301	Lahul (South)	01.07.2002	08.10.2003	1.271	2.9	-0.176	4.108	0.222	4.467	0.283	6.069	0.223	4.774
302	Lahul (South)	30.10.2002	08.10.2003	0.940	11.5	0.064	4.047	-0.118	3.397	0.134	5.284	0.143	5.623
303	Lahul (South)	30.10.2002	24.10.2003	0.984	8.6	-0.010	3.931	0.059	3.221	0.060	5.082	0.061	5.167
304	Lahul (South)	30.10.2002	17.09.2004	1.885	0.0	-0.063	3.704	-0.201	3.984	0.211	5.440	0.112	2.886
305	Lahul (South)	30.10.2002	07.11.2005	3.025	0.0	-0.398	2.868	0.166	2.828	0.431	4.028	0.142	1.332
306	Lahul (South)	30.10.2002	30.09.2006	3.921	8.6	0.365	4.275	0.066	3.557	0.371	5.561	0.095	1.419
307	Lahul (South)	30.10.2002	16.10.2006	3.964	8.6	0.055	3.865	-0.083	3.009	0.100	4.898	0.025	1.235
308	Lahul (South)	30.10.2002	17.11.2006	4.052	10.0	0.101	4.259	1.045	4.042	1.050	5.872	0.259	1.449
309	Lahul (South)	30.10.2002	20.11.2007	5.060	11.5	0.119	3.950	0.205	3.156	0.237	5.056	0.047	0.999
310	Lahul (South)	30.10.2002	15.12.2007	5.129	0.0	-0.089	3.950	0.061	3.853	0.108	5.518	0.021	1.076
311	Lahul (South)	08.10.2003	08.09.2004	0.921	2.9	0.036	2.532	0.038	2.696	0.052	3.698	0.057	4.018
312	Lahul (South)	08.10.2003	17.09.2004	0.945	11.5	0.054	3.936	0.103	3.190	0.116	5.067	0.123	5.360
313	Lahul (South)	08.10.2003	07.11.2005	2.085	11.5	-0.116	3.957	0.181	3.348	0.215	5.184	0.103	2.486
314	Lahul (South)	08.10.2003	30.09.2006	2.981	2.9	-0.017	2.491	-0.071	2.504	0.073	3.532	0.024	1.185
315	Lahul (South)	08.10.2003	16.10.2006	3.025	2.9	0.011	2.996	0.173	3.134	0.173	4.336	0.057	1.434
316	Lahul (South)	08.10.2003	17.11.2006	3.112	1.5	-0.188	4.018	0.650	3.898	0.677	5.599	0.217	1.799
317	Lahul (South)	08.10.2003	21.05.2007	3.619	11.5	0.853	4.677	-0.470	4.753	0.974	6.668	0.269	1.843
318	Lahul (South)	08.10.2003	20.11.2007	4.121	0.0	-0.010	3.265	0.099	3.292	0.100	4.637	0.024	1.125
319	Lahul (South)	08.10.2003	15.12.2007	4.189	11.4	-0.204	4.361	0.130	3.758	0.242	5.757	0.058	1.374
320	Lahul (South)	24.10.2003	08.09.2004	0.877	0.0	0.043	2.688	-0.251	3.174	0.255	4.159	0.290	4.744
321	Lahul (South)	24.10.2003	30.09.2006	2.937	0.0	0.055	2.499	-0.190	2.692	0.198	3.673	0.067	1.251
322	Lahul (South)	24.10.2003	16.10.2006	2.981	0.0	0.207	2.727	-0.058	2.811	0.215	3.916	0.072	1.314
323	Lahul (South)	24.10.2003	20.11.2007	4.077	2.9	-0.126	3.013	0.108	3.171	0.166	4.374	0.041	1.073
324	Lahul (South)	08.09.2004	07.11.2005	1.164	8.6	0.215	4.090	0.197	3.775	0.291	5.566	0.250	4.780
325	Lahul (South)	08.09.2004	30.09.2006	2.060	0.0	-0.079	1.981	0.127	2.251	0.150	2.998	0.073	1.455
326	Lahul (South)	08.09.2004	16.10.2006	2.104	0.0	-0.008	2.769	0.082	3.097	0.083	4.155	0.039	1.975
327	Lahul (South)	17.09.2004	07.11.2005	1.140	0.0	-0.014	3.840	0.136	3.801	0.137	5.403	0.120	4.741
328	Lahul (South)	17.09.2004	30.09.2006	2.036	8.6	-0.013	4.256	0.072	3.381	0.073	5.436	0.036	2.670
329	Lahul (South)	17.09.2004	16.10.2006	2.079	8.6	-0.122	4.082	0.170	3.605	0.209	5.447	0.100	2.619
330	Lahul (South)	17.09.2004	17.11.2006	2.167	10.0	-0.193	4.663	0.254	4.723	0.319	6.637	0.147	3.063
331	Lahul (South)	17.09.2004	21.05.2007	2.674	0.0	0.414	4.482	-0.745	4.669	0.852	6.472	0.319	2.420
332	Lahul (South)	17.09.2004	20.11.2007	3.175	11.5	-0.048	4.104	-0.209	3.709	0.215	5.531	0.068	1.742
333	Lahul (South)	17.09.2004	15.12.2007	3.244	0.0	-0.007	4.210	0.103	4.011	0.103	5.815	0.032	1.793
334	Lahul (South)	07.11.2005	30.09.2006	0.896	8.6	-0.053	4.156	-0.479	3.466	0.482	5.412	0.538	6.041
335	Lahul (South)	07.11.2005	16.10.2006	0.940	8.6	0.039	3.763	0.011	3.140	0.040	4.901	0.043	5.215
336	Lahul (South)	07.11.2005	17.11.2006	1.027	10.0	-0.166	3.908	0.346	3.331	0.384	5.135	0.374	4.998
337	Lahul (South)	07.11.2005	21.05.2007	1.534	0.0	0.443	4.341	-0.455	4.626	0.635	6.344	0.414	4.135
338	Lahul (South)	07.11.2005	20.11.2007	2.036	11.5	0.015	3.705	0.113	2.942	0.114	4.731	0.056	2.324
339	Lahul (South)	07.11.2005	15.12.2007	2.104	0.0	-0.055	3.723	0.195	3.729	0.203	5.269	0.096	2.504
340	Lahul (South)	16.10.2006	20.11.2007	1.096	2.9	-0.041	2.936	0.164	3.058	0.169	4.240	0.154	3.869
341	Lahul (South)	16.10.2006	15.12.2007	1.164	8.6	-0.096	4.460	0.088	3.832	0.130	5.880	0.112	5.050
342	Lahul (South)	17.11.2006	20.11.2007	1.008	1.5	-0.165	2.686	0.311	3.053	0.352	4.067	0.349	4.033
343	Lahul (North)	25.06.2000	28.08.2000	0.175	0.0	-0.227	3.138	0.147	3.352	0.270	4.591	1.541	26.186
344	Lahul (North)	28.08.2000	24.10.2003	3.156	0.0	0.180	3.423	-0.009	3.443	0.180	4.855	0.057	1.538
345	Lahul (North)	28.08.2000	08.09.2004	4.033	0.0	0.131	2.636	-0.053	2.547	0.142	3.666	0.035	0.909
346	Lahul (North)	28.08.2000	17.09.2004	4.058	8.6	-0.263	3.606	0.102	3.040	0.282	4.716	0.070	1.162
347	Lahul (North)	28.08.2000	29.10.2005	5.173	0.0	0.206	3.393	0.015	3.382	0.207	4.791	0.040	0.926
348	Lahul (North)	08.10.2003	08.09.2004	0.921	2.9	-0.030	2.964	0.042	3.078	0.052	4.273	0.056	4.642
349	Lahul (North)	08.10.2003	17.09.2004	0.945	11.5	-0.079	3.956	0.062	2.924	0.101	4.920	0.107	5.205
350	Lahul (North)	08.10.2003	29.10.2005	2.060	2.8	-0.046	2.973	0.297	3.055	0.301	4.263	0.146	2.069
351	Lahul (North)	08.10.2003	07.11.2005	2.085	11.5	-0.190	3.885	0.217	3.114	0.288	4.979	0.138	2.388

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
352	Lahul (North)	08.10.2003	30.09.2006	2.981	2.9	-0.098	2.783	-0.077	2.971	0.125	4.071	0.042	1.366
353	Lahul (North)	08.10.2003	16.10.2006	3.025	2.9	-0.131	2.874	0.169	2.975	0.214	4.137	0.071	1.368
354	Lahul (North)	24.10.2003	08.09.2004	0.877	0.0	-0.040	2.910	0.017	3.068	0.044	4.228	0.050	4.823
355	Lahul (North)	24.10.2003	17.09.2004	0.901	8.6	0.216	2.867	0.314	2.973	0.382	4.130	0.423	4.582
356	Lahul (North)	24.10.2003	07.11.2005	2.041	8.6	0.232	2.844	-0.156	3.174	0.280	4.262	0.137	2.088
357	Lahul (North)	24.10.2003	16.10.2006	2.981	0.0	0.001	3.059	-0.187	3.104	0.187	4.358	0.063	1.462
358	Lahul (North)	08.09.2004	17.09.2004	0.025	8.6	0.044	2.942	0.150	3.006	0.157	4.207	6.352	170.606
359	Lahul (North)	08.09.2004	07.11.2005	1.164	8.6	0.272	2.499	0.229	2.772	0.356	3.732	0.305	3.205
360	Lahul (North)	08.09.2004	16.10.2006	2.104	0.0	0.066	3.131	0.374	3.289	0.380	4.541	0.180	2.158
361	Lahul (North)	17.09.2004	29.10.2005	1.115	8.6	0.137	3.899	0.038	3.303	0.142	5.110	0.127	4.583
362	Lahul (North)	17.09.2004	07.11.2005	1.140	0.0	0.027	3.302	0.075	3.308	0.080	4.674	0.070	4.101
363	Lahul (North)	17.09.2004	30.09.2006	2.036	8.6	0.024	3.539	0.115	2.776	0.118	4.498	0.058	2.209
364	Lahul (North)	17.09.2004	16.10.2006	2.079	8.6	0.144	3.838	0.191	3.190	0.239	4.991	0.115	2.400
365	Lahul (North)	29.10.2005	30.09.2006	0.921	0.1	0.127	2.860	-0.029	3.142	0.130	4.249	0.141	4.615
366	Lahul (North)	29.10.2005	16.10.2006	0.964	0.0	0.276	3.010	-0.128	2.991	0.304	4.244	0.315	4.400
367	Lahul (North)	29.10.2005	20.11.2007	2.060	2.8	0.003	3.027	0.173	3.189	0.173	4.396	0.084	2.134
368	Lahul (North)	07.11.2005	30.09.2006	0.896	8.6	0.022	3.959	-0.068	3.327	0.071	5.171	0.079	5.772
369	Lahul (North)	07.11.2005	16.10.2006	0.940	8.6	0.166	3.782	-0.074	3.174	0.182	4.938	0.194	5.254
370	Lahul (North)	07.11.2005	20.11.2007	2.036	11.5	0.027	4.040	0.040	2.997	0.049	5.030	0.024	2.471
371	Lahul (North)	30.09.2006	16.10.2006	0.044	0.0	0.027	2.590	0.459	2.981	0.459	3.949	10.477	90.078
372	Lahul (North)	30.09.2006	20.11.2007	1.140	2.9	0.091	3.146	-0.247	3.354	0.263	4.599	0.231	4.035
373	Lahul (North)	30.09.2006	15.12.2007	1.208	8.5	-0.240	4.638	0.162	3.707	0.290	5.938	0.240	4.914
374	Lahul (North)	16.10.2006	20.11.2007	1.096	2.9	0.070	3.105	0.402	3.246	0.408	4.492	0.372	4.099
375	Lahul (North)	16.10.2006	15.12.2007	1.164	8.6	-0.178	4.744	0.018	3.977	0.179	6.190	0.154	5.317
376	Jammu	12.10.2002	05.03.2003	0.395	2.9	0.048	3.866	-0.058	4.027	0.075	5.582	0.191	14.149
377	Jammu	12.10.2002	31.10.2003	1.052	2.9	-0.067	3.266	0.158	3.242	0.171	4.602	0.163	4.374
378	Jammu	12.10.2002	26.03.2005	2.455	0.0	-0.056	3.752	-0.019	4.006	0.059	5.489	0.024	2.236
379	Jammu	12.10.2002	13.10.2005	3.005	8.6	0.818	5.158	0.162	3.609	0.833	6.296	0.277	2.095
380	Jammu	12.10.2002	20.10.2005	3.025	0.0	-0.134	3.046	0.306	2.949	0.334	4.240	0.110	1.402
381	Jammu	05.03.2003	31.10.2003	0.658	0.0	-0.205	3.473	0.251	3.924	0.324	5.240	0.492	7.970
382	Jammu	05.03.2003	26.03.2005	2.060	2.9	0.040	2.835	-0.043	2.652	0.059	3.882	0.028	1.884
383	Jammu	05.03.2003	20.10.2005	2.630	2.9	0.035	3.536	0.267	3.757	0.270	5.159	0.103	1.962
384	Jammu	05.03.2003	07.10.2006	3.595	2.8	0.171	3.473	0.103	3.649	0.199	5.037	0.055	1.401
385	Jammu	05.03.2003	23.10.2006	3.638	2.9	0.055	3.579	0.103	3.816	0.116	5.232	0.032	1.438
386	Jammu	31.10.2003	26.03.2005	1.403	2.9	0.117	3.748	-0.123	4.007	0.170	5.486	0.121	3.911
387	Jammu	31.10.2003	20.10.2005	1.973	2.9	0.318	2.948	0.052	2.858	0.323	4.106	0.164	2.082
388	Jammu	31.10.2003	07.10.2006	2.937	2.9	0.088	2.971	-0.084	3.030	0.121	4.244	0.041	1.445
389	Jammu	31.10.2003	23.10.2006	2.981	2.9	0.152	2.841	-0.104	2.741	0.185	3.947	0.062	1.324
390	Jammu	26.03.2005	20.10.2005	0.570	0.0	-0.038	3.453	0.290	3.811	0.292	5.142	0.513	9.024
391	Jammu	26.03.2005	07.10.2006	1.534	0.0	0.018	3.361	0.184	3.607	0.185	4.930	0.121	3.213
392	Jammu	26.03.2005	23.10.2006	1.578	0.0	0.056	3.592	0.155	3.771	0.165	5.208	0.104	3.300
393	Jammu	26.03.2005	22.12.2007	2.742	11.4	-0.160	4.449	0.108	3.595	0.193	5.720	0.070	2.086
394	Jammu	13.10.2005	07.10.2006	0.984	8.6	-0.228	4.938	-0.173	3.665	0.286	6.150	0.291	6.253
395	Jammu	13.10.2005	23.10.2006	1.027	8.6	-0.241	4.819	0.125	3.351	0.272	5.870	0.265	5.713
396	Jammu	20.10.2005	07.10.2006	0.964	0.0	-0.066	2.693	-0.031	2.692	0.073	3.808	0.076	3.949
397	Jammu	20.10.2005	23.10.2006	1.008	0.0	0.104	2.726	0.215	2.835	0.239	3.933	0.237	3.901
398	Jammu	20.10.2005	22.12.2007	2.173	11.4	-0.358	4.476	0.232	3.659	0.427	5.782	0.196	2.661
399	Jammu	07.10.2006	22.12.2007	1.208	11.4	-0.240	4.345	0.115	3.488	0.266	5.572	0.220	4.612
400	Jammu	23.10.2006	22.12.2007	1.164	11.4	-0.394	4.551	0.234	3.773	0.459	5.912	0.394	5.077
401	Karakorum (Baltoro)	11.09.2000	29.08.2001	0.964	0.0	0.069	3.535	-0.002	3.451	0.069	4.941	0.072	5.123
402	Karakorum (Baltoro)	11.09.2000	03.10.2002	2.060	0.0	-0.169	3.657	0.140	3.011	0.220	4.737	0.107	2.299
403	Karakorum (Baltoro)	11.09.2000	20.09.2003	3.025	2.9	-0.495	3.881	0.079	2.928	0.501	4.862	0.166	1.607
404	Karakorum (Baltoro)	11.09.2000	06.10.2003	3.068	0.0	-0.921	4.077	0.545	3.380	1.070	5.296	0.349	1.726
405	Karakorum (Baltoro)	11.09.2000	22.10.2003	3.112	0.0	-0.186	4.128	0.096	3.203	0.210	5.225	0.067	1.679
406	Karakorum (Baltoro)	11.09.2000	15.09.2004	4.014	11.5	0.211	5.558	-0.019	4.075	0.212	6.892	0.053	1.717
407	Karakorum (Baltoro)	29.08.2001	03.10.2002	1.096	0.0	-0.158	3.984	-0.227	3.507	0.277	5.307	0.252	4.843
408	Karakorum (Baltoro)	29.08.2001	20.09.2003	2.060	2.9	-0.542	3.889	-0.181	3.102	0.572	4.975	0.278	2.415
409	Karakorum (Baltoro)	29.08.2001	06.10.2003	2.104	0.0	-0.188	4.013	0.007	3.506	0.189	5.329	0.090	2.533

No.	Geographic region	Date [yyyy-mm-dd]		Time span [years]	Incidence angle diff. [°]	Residual offset [m]				Total displacement uncertainty [m]		Velocity uncertainty [m/yr]	
						East-West		North-South					
		Scene 1	Scene 2			Mean	SD	Mean	SD	Mean	SD	Mean	SD
410	Karakorum (Baltoro)	29.08.2001	22.10.2003	2.148	0.0	-0.063	4.109	-0.218	3.534	0.227	5.420	0.105	2.523
411	Karakorum (Baltoro)	03.10.2002	20.09.2003	0.964	2.9	-0.049	3.306	-0.093	3.170	0.105	4.580	0.109	4.749
412	Karakorum (Baltoro)	03.10.2002	06.10.2003	1.008	0.0	-0.001	2.865	0.280	2.947	0.280	4.110	0.278	4.077
413	Karakorum (Baltoro)	03.10.2002	22.10.2003	1.052	0.0	-0.223	3.095	0.031	2.947	0.225	4.274	0.214	4.062
414	Karakorum (Baltoro)	03.10.2002	30.03.2004	1.490	0.0	0.116	3.618	-0.458	3.558	0.473	5.075	0.317	3.405
415	Karakorum (Baltoro)	20.09.2003	06.10.2003	0.044	2.9	0.191	2.850	0.193	2.749	0.271	3.959	6.187	90.321
416	Karakorum (Baltoro)	20.09.2003	22.10.2003	0.088	2.9	0.063	3.181	0.271	3.042	0.278	4.401	3.175	50.203
417	Karakorum (Baltoro)	20.09.2003	30.03.2004	0.526	2.9	0.076	3.406	-0.374	3.411	0.382	4.820	0.726	9.164
418	Karakorum (Baltoro)	20.09.2003	14.08.2004	0.901	8.5	-0.042	5.278	-0.084	3.775	0.094	6.489	0.104	7.199
419	Karakorum (Baltoro)	20.09.2003	21.06.2005	1.753	2.9	0.207	3.977	-0.006	4.369	0.207	5.907	0.118	3.369
420	Karakorum (Baltoro)	20.09.2003	25.09.2005	2.016	2.9	0.230	3.859	-0.097	3.622	0.250	5.293	0.124	2.625
421	Karakorum (Baltoro)	20.09.2003	26.07.2006	2.849	0.0	-0.013	3.086	0.177	2.964	0.177	4.279	0.062	1.502
422	Karakorum (Baltoro)	06.10.2003	30.03.2004	0.482	0.0	0.050	3.223	-0.359	3.262	0.362	4.586	0.751	9.511
423	Karakorum (Baltoro)	06.10.2003	14.08.2004	0.858	11.5	0.268	5.530	-0.398	4.246	0.479	6.972	0.559	8.130
424	Karakorum (Baltoro)	06.10.2003	22.02.2005	1.384	8.6	0.598	5.676	0.019	4.009	0.599	6.949	0.433	5.023
425	Karakorum (Baltoro)	06.10.2003	21.06.2005	1.710	0.0	0.107	3.932	-0.060	3.888	0.123	5.530	0.072	3.235
426	Karakorum (Baltoro)	06.10.2003	25.09.2005	1.973	0.0	0.094	3.690	-0.207	3.603	0.227	5.157	0.115	2.615
427	Karakorum (Baltoro)	22.10.2003	30.03.2004	0.438	0.0	0.202	3.372	-0.425	3.408	0.470	4.794	1.073	10.937
428	Karakorum (Baltoro)	22.10.2003	21.06.2005	1.666	0.0	0.093	3.987	-0.090	4.019	0.129	5.661	0.078	3.399
429	Karakorum (Baltoro)	22.10.2003	25.09.2005	1.929	0.0	0.271	3.770	-0.111	3.747	0.292	5.315	0.152	2.756
430	Karakorum (Baltoro)	30.03.2004	22.02.2005	0.901	8.6	-0.315	5.562	-0.003	3.928	0.315	6.809	0.350	7.554
431	Karakorum (Baltoro)	30.03.2004	25.09.2005	1.490	0.0	-0.037	3.956	-0.050	3.893	0.063	5.550	0.042	3.724
432	Karakorum (Baltoro)	30.03.2004	26.07.2006	2.323	2.9	-0.046	3.668	0.101	3.498	0.111	5.069	0.048	2.182
433	Karakorum (Baltoro)	14.08.2004	15.09.2004	0.088	0.0	-0.021	2.883	-0.196	2.854	0.197	4.056	2.249	46.266
434	Karakorum (Baltoro)	14.08.2004	22.02.2005	0.526	2.9	0.170	4.226	-0.218	3.836	0.277	5.707	0.526	10.850
435	Karakorum (Baltoro)	14.08.2004	30.06.2005	0.877	0.0	-0.165	4.690	0.036	3.884	0.168	6.089	0.192	6.945
436	Karakorum (Baltoro)	15.09.2004	22.02.2005	0.438	2.9	0.315	4.316	-0.024	4.119	0.316	5.966	0.721	13.610
437	Karakorum (Baltoro)	15.09.2004	25.09.2005	1.027	11.5	0.235	5.556	-0.059	4.372	0.242	7.070	0.236	6.881
438	Karakorum (Baltoro)	25.09.2005	26.07.2006	0.833	2.9	-0.312	4.089	0.101	3.899	0.328	5.650	0.393	6.783
439	Karakorum (Biafo Gyang)	11.09.2000	18.05.2001	0.682	14.3	-0.490	4.349	-0.043	3.485	0.492	5.573	0.722	8.169
440	Karakorum (Biafo Gyang)	11.09.2000	29.08.2001	0.964	0.0	-0.278	3.302	0.040	2.989	0.281	4.454	0.291	4.618
441	Karakorum (Biafo Gyang)	11.09.2000	20.09.2003	3.025	2.9	0.047	3.581	0.055	2.765	0.072	4.524	0.024	1.496
442	Karakorum (Biafo Gyang)	06.03.2001	18.05.2001	0.200	11.5	-0.120	4.513	0.019	3.928	0.122	5.983	0.609	29.915
443	Karakorum (Biafo Gyang)	06.03.2001	31.05.2003	2.236	0.1	-0.050	3.579	-0.077	3.416	0.092	4.948	0.041	2.213
444	Karakorum (Biafo Gyang)	06.03.2001	02.11.2004	3.663	11.4	-0.225	4.502	0.153	3.754	0.272	5.862	0.074	1.600
445	Karakorum (Biafo Gyang)	18.05.2001	31.05.2003	2.036	11.4	0.091	4.186	-0.066	3.263	0.113	5.307	0.055	2.607
446	Karakorum (Biafo Gyang)	18.05.2001	20.09.2003	2.342	11.4	0.346	4.187	0.477	3.692	0.590	5.582	0.252	2.383
447	Karakorum (Biafo Gyang)	18.05.2001	02.11.2004	3.463	0.1	-0.120	3.363	0.290	3.603	0.314	4.928	0.091	1.423
448	Karakorum (Biafo Gyang)	18.05.2001	16.05.2006	4.997	0.0	0.060	2.991	-0.080	2.790	0.100	4.090	0.020	0.818
449	Karakorum (Biafo Gyang)	29.08.2001	20.09.2003	2.060	2.9	0.087	3.645	0.112	2.878	0.142	4.644	0.069	2.254
450	Karakorum (Biafo Gyang)	31.05.2003	16.05.2006	2.962	11.4	-0.135	4.112	0.102	3.212	0.169	5.218	0.057	1.762
451	Karakorum (Biafo Gyang)	31.05.2003	24.06.2006	3.068	0.1	0.054	3.339	0.093	3.198	0.108	4.624	0.035	1.507
452	Karakorum (Biafo Gyang)	31.05.2003	26.07.2006	3.156	0.0	0.129	3.720	0.096	3.443	0.160	5.069	0.051	1.606
453	Karakorum (Biafo Gyang)	20.09.2003	02.11.2004	1.121	11.3	-0.374	4.310	0.169	3.720	0.411	5.694	0.367	5.081
454	Karakorum (Biafo Gyang)	20.09.2003	02.04.2005	1.534	0.1	0.040	3.438	-0.214	3.398	0.217	4.834	0.142	3.151
455	Karakorum (Biafo Gyang)	20.09.2003	16.05.2006	2.655	11.4	0.049	4.456	-0.483	4.181	0.486	6.110	0.183	2.302
456	Karakorum (Biafo Gyang)	20.09.2003	24.06.2006	2.762	0.1	0.081	3.389	-0.115	3.441	0.140	4.830	0.051	1.749
457	Karakorum (Biafo Gyang)	20.09.2003	26.07.2006	2.849	0.0	-0.113	3.081	0.062	3.013	0.128	4.310	0.045	1.512
458	Karakorum (Biafo Gyang)	02.11.2004	05.11.2005	1.008	2.9	-0.268	2.872	0.262	2.831	0.375	4.033	0.372	4.000
459	Karakorum (Biafo Gyang)	02.11.2004	13.03.2006	1.359	0.1	0.185	3.600	-0.224	3.719	0.291	5.176	0.214	3.809
460	Karakorum (Biafo Gyang)	02.11.2004	29.03.2006	1.403	0.1	0.233	3.457	-0.281	3.622	0.365	5.007	0.260	3.570
461	Karakorum (Biafo Gyang)	02.11.2004	05.04.2006	1.422	8.5	-0.117	4.637	-0.328	3.878	0.348	6.045	0.245	4.251
462	Karakorum (Biafo Gyang)	02.11.2004	16.05.2006	1.534	0.1	0.122	3.580	-0.171	3.821	0.210	5.236	0.137	3.413
463	Karakorum (Biafo Gyang)	02.11.2004	17.06.2006	1.622	2.9	0.181	3.671	-0.132	3.892	0.224	5.350	0.138	3.299
464	Karakorum (Biafo Gyang)	02.11.2004	24.06.2006	1.641	11.4	0.160	4.522	-0.393	4.165	0.424	6.148	0.258	3.746
465	Karakorum (Biafo Gyang)	02.11.2004	26.07.2006	1.729	11.4	0.069	4.625	-0.261	4.100	0.270	6.181	0.156	3.575
466	Karakorum (Biafo Gyang)	02.11.2004	05.09.2006	1.841	0.0	0.112	3.577	-0.110	3.535	0.157	5.029	0.085	2.732
467	Karakorum (Biafo Gyang)	02.11.2004	28.09.2006	1.904	8.5	0.179	4.613	-0.307	3.927	0.355	6.058	0.187	3.182

Glacier ID	Lat (°N)	Lon (°E)	Length (km)	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean down-stream slope (°)	Debris cover (%)	Surging behavior
1713	35.3052	81.1334	27.0	166.6	5344	6805	6090	6152	0.51	8.6	2.5	6	(M)
1714	35.4813	80.6577	20.8	117.4	5193	6575	5993	6071	0.58	7.2	2.7	2	(M)
1715	35.4221	80.7548	23.3	198.1	4851	6694	6039	6099	0.64	11.7	3.4	3	-
1716	35.4663	81.1395	23.9	80.8	5035	6765	6118	6181	0.63	11.1	3.7	2	-
1717	35.4408	80.9165	28.2	196.1	4693	6691	6089	6162	0.70	11.7	3.5	2	-
1718	35.4305	81.2771	29.4	133.2	5107	6728	6083	6133	0.60	7.1	2.5	1	-
1719	35.5411	81.1263	4.7	2.9	5172	6275	5904	5934	0.66	17.1	12.6	3	-
1720	35.5058	80.7850	4.4	4.0	5196	6454	6006	6044	0.64	20.9	12.9	10	-
1721	35.5395	80.7977	5.9	4.8	5046	6463	6016	6068	0.68	18.4	12.3	5	-

Table S6: Characteristics of glacier accumulation areas.

Glacier ID	Ice-free areas (%)	Mean slope of ice-free areas (°)	Mean slope of catchment areas (°)	Estimated ELA (m)	ELA uncertainty (m)	AAR	AAR (min)†	AAR (max) †
101	70.1	31.1	31.1	5000	150	0.44	0.4	0.5
102	79.3	35.5	34.4	5400	200	0.45	0.33	0.64
103	77.5	33.3	33.2	5000	150	0.48	0.39	0.57
104	67.9	32.6	31.7	4850	200	0.63	0.56	0.74
105	60.3	34.6	31.0	5200	200	0.6	0.56	0.62
106	93.0	28.8	28.7	4600	200	0.32	0.08	0.77
107	57.3	35.3	34.4	4850	200	0.55	0.47	0.77
108	59.5	36.7	32.9	5100	150	0.41	0.24	0.59
202	65.7	32.0	29.4	5150	200	0.38	0.21	0.53
203	77.0	36.5	34.7	5200	300	0.45	0.36	0.5
204	85.0	36.6	35.8	5200	200	0.4	0.27	0.47
206	90.9	37.0	37.2	5200	400	0.34	0.27	0.39
208	73.3	38.4	37.4	5200	300	0.37	0.33	0.42
209	69.4	36.2	33.5	5100	200	0.51	0.43	0.64
210	56.6	35.5	32.0	5550	300	0.53	0.45	0.65
211	65.8	35.9	32.9	5180	200	0.47	0.38	0.57
301	73.9	33.0	32.3	4700	150	0.48	0.42	0.61
302	68.1	35.8	33.4	4750	200	0.48	0.42	0.53
303	62.2	33.2	27.6	4850	200	0.68	0.66	0.71
304	59.6	34.1	27.6	4800	200	0.78	0.76	0.83
305	64.4	31.6	26.7	4700	200	0.68	0.65	0.69
306	66.6	31.6	27.5	4900	200	0.63	0.52	0.73
307	65.3	34.1	29.4	4500	200	0.78	0.60	0.88
308	58.2	33.5	29.6	4700	200	0.85	0.66	0.99
309	77.1	34.4	31.8	4800	200	0.57	0.49	0.62
401	40.0	32.4	23.8	4850	150	0.67	0.54	0.78
402	54.5	31.2	29.5	4700	150	0.66	0.52	0.81
403	38.2	30.4	24.5	4900	150	0.74	0.64	0.80
404	66.9	28.9	27.3	4400	300	0.52	0.31	0.82
405	48.8	32.5	24.4	4000	300	0.95	0.71	1.00
407	47.8	30.6	23.6	4800	150	0.66	0.55	0.74
408	64.5	27.6	24.7	5050	200	0.65	0.50	0.78
409	70.0	31.5	28.8	4600	150	0.58	0.44	0.70
410	36.8	29.9	24.8	4700	150	0.67	0.52	0.79
501	42.8	32.7	26.4	5050	150	0.55	0.41	0.68
502	40.1	33.2	27.6	5150	200	0.74	0.48	0.91
503	68.5	35.3	31.7	5000	150	0.40	0.33	0.48
504	66.4	33.2	29.6	5000	200	0.34	0.14	0.50
505	57.9	32.1	27.8	4900	200	0.60	0.37	0.77
506	48.6	34.7	28.7	4900	200	0.71	0.55	0.87
507	85.5	34.0	33.5	4850	200	0.26	0.20	0.34
508	68.7	31.5	27.9	4800	200	0.58	0.42	0.72
509	56.1	33.6	29.1	4900	200	0.66	0.56	0.76
510	55.7	34.4	30.1	5100	200	0.67	0.55	0.80
511	75.9	33.4	31.9	5200	200	0.39	0.31	0.53
512	69.3	36.8	33.3	5000	300	0.52	0.34	0.58
513	98.9	34.2	34.1	5000	200	0.04	0.00	0.16
514	50.5	32.1	28.6	5250	150	0.56	0.30	0.70
515	77.5	35.2	32.6	5200	150	0.58	0.37	0.78
516	43.6	30.1	28.8	5000	150	0.71	0.52	0.80
517	73.6	32.3	29.4	4900	200	0.42	0.25	0.65
518	64.6	35.8	32.7	5100	150	0.47	0.18	0.76
519	41.9	31.7	26.1	5200	150	0.68	0.47	0.79
520	84.4	31.9	31.4	4950	150	0.46	0.27	0.65
521	62.0	35.9	33.4	5100	150	0.47	0.35	0.63
522	80.4	34.6	32.9	4950	200	0.39	0.20	0.59
523	52.2	36.8	31.0	5050	200	0.64	0.59	0.72
601	68.3	33.4	29.1	5200	200	0.54	0.24	0.68
602	34.8	30.7	19.9	5000	200	0.68	0.35	0.93
603	77.4	28.1	27.0	4850	200	0.29	0.06	0.62
604	62.8	29.7	28.1	5000	200	0.51	0.30	0.72

Glacier ID	Ice-free areas (%)	Mean slope of ice-free areas (°)	Mean slope of catchment areas (°)	Estimated ELA (m)	ELA uncertainty (m)	AAR	AAR (min)†	AAR (max) †
605	54.0	33.1	25.7	4900	200	0.63	0.52	0.69
606	49.9	30.7	26.4	4850	200	0.60	0.34	0.72
607	57.4	28.6	21.2	5050	200	0.73	0.33	0.91
608	68.1	32.3	30.5	4650	300	0.18	0.07	0.48
609	65.3	31.6	26.2	5150	200	0.65	0.20	0.85
610	84.8	26.5	25.9	4900	200	0.47	0.25	0.60
611	72.7	27.5	25.8	4700	200	0.54	0.31	0.79
612	71.4	26.1	23.9	5000	200	0.51	0.40	0.67
613	62.2	28.7	24.8	4900	200	0.67	0.53	0.79
614	72.1	30.8	28.2	5000	200	0.59	0.27	0.75
615	62.1	31.5	27.6	4650	300	0.61	0.21	0.84
616	60.4	33.1	28.4	4900	200	0.57	0.50	0.60
617	67.4	33.1	28.8	4800	200	0.55	0.37	0.77
618	42.7	30.6	22.9	5050	200	0.64	0.49	0.74
619	36.4	29.6	19.3	5150	200	0.79	0.33	0.98
620	38.9	22.8	18.4	5200	200	0.62	0.24	0.91
621	44.1	27.1	20.9	5000	200	0.80	0.45	0.99
622	70.9	28.9	26.8	4850	200	0.32	0.03	0.72
623	65.8	30.4	26.0	5200	200	0.73	0.33	0.96
624	87.1	31.7	30.7	4650	200	0.29	0.04	0.72
625	82.2	31.6	31.7	4600	300	0.16	0.03	0.47
626	41.9	28.5	18.4	5180	200	0.83	0.52	0.97
627	62.9	26.4	24.3	4850	200	0.54	0.34	0.71
701	25.1	31.7	23.2	5000	150	0.52	0.26	0.66
702	81.2	34.9	33.0	5250	200	0.19	0.03	0.56
703	53.7	27.2	22.2	5200	150	0.28	0.09	0.62
704	74.7	32.5	30.4	5350	150	0.33	0.19	0.60
705	72.2	33.0	29.9	5400	150	0.28	0.12	0.47
706	59.2	28.5	24.3	5300	150	0.39	0.23	0.59
707	53.6	33.6	28.1	5350	150	0.49	0.33	0.68
708	77.2	31.6	29.5	5200	200	0.28	0.16	0.56
709	52.0	31.5	25.2	5300	150	0.61	0.42	0.75
710	86.7	32.0	31.6	5200	200	0.17	0.11	0.31
711	65.7	30.1	26.7	5200	200	0.55	0.31	0.71
712	52.1	31.4	24.2	5300	150	0.44	0.29	0.62
713	82.4	29.7	29.1	5500	150	0.41	0.15	0.74
714	100.0	35.0	35.0	5400	300	0.00	0.00	0.01
715	56.3	28.5	23.5	5250	150	0.48	0.13	0.78
716	93.4	22.8	23.1	5000	150	0.08	0.00	0.53
717	78.4	36.3	33.4	5450	150	0.12	0.01	0.49
718	72.5	27.3	30.9	5400	300	0.12	0.04	0.24
719	40.4	26.0	18.4	5450	100	0.57	0.12	0.85
720	80.1	28.8	29.3	4800	300	0.46	0.28	0.62
801	64.5	30.8	27.4	5550	100	0.58	0.43	0.72
802	87.7	33.2	34.2	5000	200	0.16	0.11	0.20
803	43.6	29.7	22.9	5000	200	0.79	0.52	0.85
804	61.6	33.4	28.3	5150	200	0.61	0.33	0.79
805	75.0	27.9	24.8	5450	100	0.41	0.33	0.61
806	53.9	27.9	23.1	5100	200	0.76	0.49	0.90
807	65.6	31.9	28.2	5000	200	0.50	0.26	0.77
808	77.1	31.1	29.2	5000	200	0.45	0.25	0.64
809	52.4	28.3	24.1	4950	200	0.68	0.52	0.79
810	35.9	28.5	18.9	5000	200	0.53	0.42	0.73
811	64.3	28.7	26.7	4900	200	0.57	0.40	0.74
812	60.9	29.7	24.0	5150	150	0.73	0.59	0.81
813	50.2	30.4	26.6	5100	200	0.35	0.17	0.58
814	75.1	29.6	28.1	5500	150	0.54	0.31	0.76
815	80.0	24.8	24.7	5450	100	0.64	0.49	0.83
816	75.1	27.5	26.4	4900	200	0.31	0.18	0.71
817	100.0	26.9	26.9	5850	200	0.00	0.00	0.00
901	60.4	29.1	23.3	5750	150	0.78	0.41	0.95
902	55.4	29.9	23.6	5500	150	0.91	0.80	0.98
903	52.2	30.8	24.7	5450	150	0.84	0.67	0.94
904	35.8	28.6	24.7	5800	150	0.63	0.33	0.77
905	53.6	27.0	20.5	5750	150	0.86	0.54	0.99
906	68.9	33.1	28.8	5650	150	0.68	0.50	0.84
907	53.5	34.2	25.8	5500	150	0.81	0.64	0.94
1001	50.1	34.0	29.3	5200	150	0.52	0.42	0.67
1002	51.9	32.6	27.8	5150	150	0.61	0.41	0.67
1003	52.3	34.0	27.2	4900	100	0.69	0.62	0.76
1004	69.9	29.2	25.1	4950	150	0.68	0.57	0.77
1005	50.3	28.5	26.9	5200	150	0.58	0.46	0.72
1006	67.4	36.4	34.5	4750	250	0.38	0.30	0.49
1007	81.3	33.5	32.0	5000	150	0.21	0.09	0.39
1101	71.9	33.3	30.8	5500	100	0.73	0.56	0.87
1102	66.3	30.8	26.7	5400	200	0.68	0.38	0.87
1103	58.0	30.4	23.8	5650	150	0.64	0.38	0.80
1104	91.3	36.3	36.3	5350	200	0.13	0.10	0.16
1105	63.0	32.5	29.4	5700	150	0.62	0.50	0.69
1106	65.5	33.8	29.9	5500	150	0.60	0.40	0.72

Glacier ID	Ice-free areas (%)	Mean slope of ice-free areas (°)	Mean slope of catchment areas (°)	Estimated ELA (m)	ELA uncertainty (m)	AAR	AAR (min)†	AAR (max) †
1107	82.3	34.0	32.8	5450	200	0.26	0.13	0.33
1108	66.3	35.3	32.0	5150	150	0.55	0.42	0.67
1109	73.9	33.4	31.9	5700	150	0.72	0.41	0.90
1110	85.8	29.5	27.8	5450	150	0.33	0.03	0.78
1111	87.4	33.2	32.1	5700	100	0.29	0.08	0.47
1112	96.7	35.5	35.8	5400	200	0.05	0.02	0.09
1113	50.2	32.6	26.7	5700	150	0.73	0.34	0.81
1114	61.3	32.6	28.5	5750	100	0.47	0.25	0.61
1115	74.0	31.7	31.0	5500	100	0.49	0.36	0.63
1201	57.3	26.0	21.1	5650	100	0.62	0.38	0.84
1202	43.2	27.1	22.3	5700	150	0.77	0.53	0.89
1203	52.1	29.5	24.6	5650	100	0.54	0.34	0.63
1204	42.8	29.1	18.6	5650	100	0.59	0.46	0.70
1205	53.8	29.3	22.5	5650	100	0.61	0.40	0.75
1206	51.7	25.8	23.8	5650	100	0.66	0.50	0.84
1207	57.2	27.5	22.0	5800	100	0.58	0.36	0.77
1301	58.7	31.5	26.6	5850	200	0.46	0.17	0.61
1302	67.4	32.6	28.2	5600	200	0.46	0.11	0.65
1303	33.5	27.3	21.2	5600	200	0.68	0.34	0.85
1304	36.0	20.5	19.6	5950	200	0.45	0.18	0.63
1305	86.7	38.7	37.0	5700	200	0.05	0.01	0.14
1306	54.3	28.2	27.9	5750	200	0.53	0.42	0.71
1307	52.1	25.7	23.7	5950	200	0.68	0.40	0.88
1308	97.6	37.6	37.4	5700	400	0.02	0.00	0.08
1309	30.9	29.5	21.7	6000	200	0.55	0.20	0.80
1310	45.3	40.0	33.0	5950	200	0.67	0.52	0.78
1311	50.4	35.2	29.4	5850	200	0.29	0.13	0.43
1312	100.0	35.3	35.3	5700	400	0.00	0.00	0.01
1313	62.7	24.1	21.1	5800	300	0.48	0.37	0.53
1314	37.0	38.0	25.0	5800	200	0.60	0.37	0.70
1315	47.0	28.9	25.4	5800	200	0.59	0.41	0.76
1316	53.1	31.4	29.3	5700	200	0.66	0.27	0.95
1317	60.1	31.6	30.2	5650	200	0.28	0.10	0.73
1318	53.8	32.9	28.2	5650	200	0.48	0.17	0.63
1319	44.3	31.0	27.1	5900	200	0.60	0.40	0.82
1320	41.6	20.8	21.4	5800	200	0.72	0.43	0.94
1321	51.9	33.4	28.5	5900	200	0.59	0.44	0.79
1322	53.5	36.3	33.3	5700	400	0.00	0.00	0.00
1323	38.4	27.0	24.6	6000	200	0.60	0.36	0.84
1324	52.8	34.1	25.9	5800	200	0.75	0.20	0.83
1325	76.5	28.6	26.4	5900	200	0.33	0.06	0.79
1326	57.0	28.9	26.9	5800	200	0.65	0.44	0.81
1401	48.1	34.0	28.2	6150	150	0.61	0.42	0.81
1402	67.7	32.5	29.8	5600	200	0.38	0.16	0.58
1403	87.6	32.8	31.0	5750	150	0.13	0.01	0.33
1404	46.4	27.1	29.6	6000	200	0.63	0.45	0.80
1405	68.7	37.4	32.3	5800	200	0.26	0.09	0.54
1406	86.7	43.5	42.9	6300	400	0.10	0.07	0.10
1407	77.9	37.5	37.2	5800	200	0.02	0.00	0.16
1408	37.5	25.0	18.7	5950	200	0.77	0.46	0.94
1409	36.3	39.3	36.0	6300	400	0.43	0.30	0.48
1410	50.3	26.7	22.6	6200	150	0.68	0.47	0.80
1411	54.9	30.6	24.6	6150	150	0.61	0.34	0.76
1412	57.3	31.8	27.9	6050	150	0.63	0.54	0.73
1413	78.0	33.5	31.0	6150	200	0.30	0.03	0.55
1414	97.6	38.6	38.6	5700	200	0.01	0.00	0.04
1415	70.8	30.6	26.5	6300	300	0.53	0.14	0.85
1416	74.9	32.6	28.9	6000	200	0.42	0.15	0.68
1417	65.1	35.3	28.9	6050	200	0.51	0.14	0.78
1418	73.2	33.9	30.8	6150	200	0.32	0.12	0.50
1419	71.8	35.5	32.5	6200	150	0.44	0.23	0.62
1420	85.0	31.6	29.5	5800	150	0.48	0.29	0.63
1421	67.4	31.1	28.3	5700	50	0.39	0.30	0.45
1422	87.0	28.4	27.1	5500	200	0.17	0.04	0.58
1423	75.7	37.4	34.3	5800	150	0.46	0.44	0.47
1424	66.6	30.7	24.4	5650	50	0.53	0.24	0.79
1425	43.2	37.4	29.5	6000	200	0.20	0.16	0.21
1426	57.9	30.1	28.2	6200	150	0.45	0.30	0.67
1427	95.2	36.0	35.3	5600	200	0.04	0.00	0.40
1428	85.7	39.2	40.1	6300	400	0.01	0.00	0.03
1429	93.4	38.7	38.2	5750	150	0.09	0.02	0.22
1430	100.0	42.8	42.8	6300	400	0.00	0.00	0.00
1431	64.1	23.4	20.8	6250	150	0.71	0.40	0.91
1432	99.5	39.5	39.5	5700	200	0.00	0.00	0.05
1433	95.5	33.9	33.5	5550	200	0.02	0.00	0.11
1434	94.0	41.0	40.4	5800	200	0.04	0.01	0.18
1435	97.2	42.1	42.1	5700	200	0.01	0.00	0.07
1436	60.6	26.1	21.2	6100	150	0.57	0.10	0.83
1437	36.8	26.3	20.6	6300	200	0.73	0.25	0.91
1438	49.6	25.8	20.4	6200	150	0.46	0.21	0.72

Glacier ID	Ice-free areas (%)	Mean slope of ice-free areas (°)	Mean slope of catchment areas (°)	Estimated ELA (m)	ELA uncertainty (m)	AAR	AAR (min)†	AAR (max) †
1501	72.6	33.1	30.1	5500	200	0.71	0.60	0.78
1502	66.7	31.3	28.1	5600	150	0.71	0.48	0.92
1503	36.5	33.2	20.5	5500	100	0.84	0.73	0.91
1504	92.8	30.9	30.1	5650	150	0.34	0.08	0.50
1505	36.9	30.0	28.1	5550	200	0.72	0.54	0.88
1506	34.2	30.8	25.6	5950	150	0.80	0.77	0.87
1507	69.4	35.9	33.6	5400	200	0.27	0.17	0.42
1508	56.3	36.1	33.6	5450	150	0.58	0.53	0.65
1509	64.0	30.3	27.5	5500	150	0.66	0.62	0.70
1510	71.2	30.8	27.7	5400	200	0.39	0.26	0.56
1511	43.5	28.1	28.2	5700	150	0.48	0.24	0.68
1512	72.8	29.1	27.3	5850	100	0.70	0.45	0.94
1513	77.9	26.4	24.6	5400	150	0.57	0.32	0.67
1514	40.3	31.9	25.4	5800	100	0.84	0.66	0.93
1515	67.2	30.5	27.2	5650	150	0.75	0.36	0.93
1516	47.4	31.7	24.3	5750	100	0.84	0.66	0.91
1517	38.3	29.4	23.2	5600	100	0.69	0.51	0.79
1518	47.2	31.3	24.9	6000	150	0.59	0.39	0.82
1519	45.8	35.3	30.4	5750	150	0.41	0.18	0.70
1520	47.6	32.5	27.5	5700	150	0.62	0.37	0.74
1521	28.7	31.2	24.1	5800	150	0.64	0.45	0.85
1522	30.8	29.9	26.0	5900	100	0.75	0.67	0.87
1523	45.1	28.6	25.5	5950	100	0.77	0.67	0.87
1524	63.1	30.2	25.1	5650	100	0.67	0.46	0.89
1525	42.4	31.1	26.3	5600	100	0.72	0.62	0.80
1526	52.8	29.0	23.2	5800	100	0.69	0.47	0.78
1527	51.3	29.3	24.6	5700	100	0.78	0.71	0.86
1601	59.8	22.9	19.9	4950	200	0.91	0.86	0.96
1602	39.3	18.9	15.3	6050	100	0.60	0.47	0.73
1603	44.2	28.5	22.9	5950	100	0.55	0.44	0.65
1604	94.0	38.2	38.4	5300	300	0.07	0.03	0.19
1605	73.9	33.0	31.0	5400	200	0.36	0.12	0.64
1606	47.7	32.0	25.6	5650	150	0.70	0.45	0.89
1607	48.3	32.9	24.5	5750	200	0.55	0.30	0.83
1608	45.2	23.4	18.6	6150	200	0.59	0.54	0.64
1609	57.3	30.5	25.5	5700	300	0.76	0.69	0.80
1610	47.1	26.6	21.0	5650	150	0.61	0.48	0.71
1611	57.4	28.8	22.9	5750	150	0.56	0.40	0.68
1612	67.8	37.2	34.1	5300	300	0.26	0.08	0.42
1613	52.2	34.1	30.2	5100	300	0.52	0.46	0.61
1614	45.4	19.4	15.3	5850	100	0.73	0.67	0.78
1615	38.2	28.1	21.8	5650	100	0.52	0.31	0.76
1616	55.5	21.4	22.1	5200	150	0.77	0.55	0.90
1617	58.1	29.8	27.1	5300	200	0.52	0.16	0.70
1618	39.3	27.5	23.6	5950	150	0.66	0.51	0.86
1701	34.8	28.3	21.4	5850	150	0.76	0.63	0.89
1702	33.9	19.9	15.5	5850	100	0.69	0.56	0.78
1703	27.7	24.0	17.4	5850	150	0.81	0.69	0.87
1704	43.8	28.3	23.0	5800	100	0.80	0.71	0.88
1705	17.7	26.7	22.9	5950	150	0.69	0.51	0.81
1706	30.2	15.3	11.1	5900	150	0.72	0.57	0.81
1707	58.9	21.4	17.8	5850	100	0.84	0.77	0.88
1708	28.2	14.4	10.4	5850	150	0.83	0.70	0.90
1709	36.2	25.0	17.5	5800	150	0.89	0.81	0.94
1710	9.5	14.8	8.0	6000	200	0.72	0.40	0.87
1711	30.1	25.9	16.9	5850	100	0.88	0.83	0.92
1712	28.0	27.9	18.1	5800	150	0.86	0.77	0.92
1713	15.6	18.4	11.3	5900	150	0.76	0.66	0.84
1714	33.6	21.5	12.5	5700	150	0.86	0.80	0.92
1715	27.5	25.7	16.3	5750	150	0.87	0.78	0.92
1716	33.6	24.6	16.3	5800	100	0.86	0.81	0.90
1717	25.8	26.7	16.3	5800	150	0.86	0.77	0.91
1718	22.4	23.9	11.4	5800	150	0.86	0.76	0.92
1719	34.7	22.7	18.6	5800	100	0.75	0.60	0.83
1720	39.3	30.8	24.8	5930	150	0.70	0.44	0.86
1721	25.1	29.2	21.7	5850	150	0.76	0.60	0.86

† The minimum and maximum values of the accumulation area ratio (AAR) correspond to the estimated equilibrium line altitude (ELA) with added and subtracted ELA uncertainties, respectively.

Table S7: Glacial catchment characteristics.

Glacier ID	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean aspect (°)	Mean local relief (m)	Ice-free catchment area (km ²)
101	47.1	4138	6918	5127	5061	0.36	28.93	339.84	1838	33.8
102	64.6	3901	7403	5279	5182	0.39	32.34	304.59	1975	48.7

Glacier ID	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean aspect (°)	Mean local relief (m)	Ice-free catchment area (km ²)
103	50.9	3774	6973	5000	4929	0.38	31.45	340.33	2219	37.8
104	52.4	4008	6980	5107	5022	0.37	29.53	335.17	1767	35.5
105	127.6	3589	7098	5251	5139	0.47	28.23	128.29	2062	79.6
106	23.0	4192	5805	4865	4826	0.42	27.24	297.64	1468	19.3
107	7.0	4334	6042	5051	5031	0.42	32.61	337.2	1620	3.0
108	14.6	4345	6726	5263	5197	0.39	30.75	352.42	2027	6.9
202	19.1	4214	6270	5115	4998	0.44	22.33	160.02	1470	9.3
203	31.1	3682	6585	4837	4730	0.4	33.17	309.47	2044	23.9
204	41.0	4254	7323	5474	5380	0.4	32.69	209.18	2245	24.5
206	68.4	3557	7320	5001	4833	0.38	32.67	104.92	2516	57.3
208	81.3	3522	7324	5024	4913	0.4	33.4	71.61	2350	53.2
209	71.6	3648	7630	5148	5127	0.38	32.23	80.72	2089	45.3
210	182.2	4000	7654	5474	5431	0.4	29.15	144.3	2206	93.8
211	157.2	3916	7463	5312	5245	0.39	30.7	130.36	2122	94.9
301	14.2	4092	6246	4939	4877	0.39	31.89	21.69	1707	9.5
302	91.7	3505	7731	4911	4822	0.33	31.61	52.83	2351	59.6
303	161.2	2963	7807	5149	5200	0.45	28.12	12.76	2174	102.3
304	226.4	3253	7782	5278	5278	0.45	28.1	45.99	2174	137.1
305	331.2	3330	7729	4996	5110	0.38	26.78	285.58	1790	211.4
306	360.0	3572	6405	5131	5175	0.55	26.91	339.04	1461	223.6
307	945.7	3046	7819	4918	4854	0.39	27.7	226.42	2023	563.0
308	10.1	4413	6166	5142	5075	0.42	30.46	46.1	1592	5.8
309	168.1	2879	7722	5129	5104	0.46	32.63	319.34	2328	126.8
401	845.4	3040	7195	4899	4963	0.45	22.12	177.15	1577	350.5
402	14.1	4198	5834	4912	4863	0.44	26.98	281.96	1287	7.6
403	60.8	3704	6372	5020	5092	0.49	25.23	107.89	1754	27.5
404	67.5	3602	6341	4655	4636	0.38	25.07	74.85	1593	42.1
405	93.8	3686	6290	4715	4689	0.4	25.88	160.22	1607	45.5
407	386.0	3954	6870	5115	5144	0.4	22.9	210.67	1444	178.4
408	368.4	4457	7220	5395	5398	0.34	23.32	121.63	1405	219.4
409	214.3	3508	7019	4835	4843	0.38	26.27	138.67	1616	130.2
410	5.5	4321	5641	4918	4915	0.45	24.47	348.87	1207	2.0
501	33.2	4055	5923	5031	5045	0.52	25.87	113.23	1454	14.6
502	29.2	4388	6561	5355	5338	0.44	26.6	224.51	1652	11.3
503	23.3	4121	6071	4971	4962	0.44	30.28	224.17	1640	14.5
504	30.4	3904	6076	4922	4930	0.47	29.37	66.32	1690	21.5
505	68.5	3890	6007	4953	4984	0.5	27.01	33.68	1614	38.9
506	47.2	4117	6167	5122	5122	0.49	26.94	281.67	1570	20.1
507	85.2	3451	7768	4942	4828	0.35	31.87	171.14	2158	63.6
508	150.6	3480	7058	4996	5027	0.42	27.78	202.78	1831	97.3
509	71.1	3768	6827	5104	5134	0.44	29.18	201.71	1869	40.6
510	68.5	3808	6991	5227	5236	0.45	29.86	328.6	1975	36.7
511	132.8	3623	6427	4980	5007	0.48	29.88	129.25	1793	86.9
512	136.2	3429	7235	4925	4930	0.39	31.47	306.99	2075	85.4
513	7.4	3940	6208	5017	5006	0.47	36.95	313.66	2179	6.4
514	2.6	4945	6339	5425	5379	0.34	27.87	282.39	1433	1.1
515	6.7	4500	6258	5396	5420	0.51	34.43	246.94	1705	4.8
516	7.1	4216	5800	5001	4998	0.5	29.68	349.27	1540	3.9
517	16.0	4259	5693	4969	4948	0.49	25.77	41.43	1292	9.0
518	8.3	4383	6580	5319	5208	0.43	30.14	177.08	1800	4.0
519	6.8	4734	6245	5356	5350	0.41	25.34	231.16	1456	2.8
520	13.2	4282	6278	5228	5162	0.47	31.67	307.78	1811	10.2
521	10.3	4368	6954	5356	5163	0.38	30.62	219.73	1986	5.0
522	11.5	3999	5896	4922	4901	0.49	32.1	115.54	1659	8.6
523	1215.3	3369	8557	5312	5281	0.37	28.85	219.73	1920	571.5
601	21.7	4497	6160	5272	5272	0.47	27.58	25.99	1310	14.0
602	31.9	4584	5870	5224	5233	0.5	19.27	83.85	1069	10.6
603	18.8	4030	5715	4801	4803	0.46	24.73	141.82	1303	12.5
604	54.3	4089	6228	5026	5040	0.44	27.09	228.1	1472	30.2
605	59.8	4129	6409	5098	5158	0.43	26.12	209.99	1444	32.9
606	51.1	3900	6258	4836	4860	0.4	24.7	196.6	1628	29.2
607	49.1	4197	5825	5196	5217	0.61	21.2	27.65	1130	28.1
608	50.5	3704	5733	4666	4668	0.47	28.76	137.36	1474	28.8
609	44.4	4513	6158	5279	5267	0.47	24.76	10.03	1309	27.2
610	73.8	3673	6138	4887	5009	0.49	26.35	273.29	1704	56.2
611	103.9	3945	6153	4885	4866	0.43	23.5	266.99	1472	73.0
612	67.1	4173	5897	5084	5115	0.53	23.39	112.88	1256	42.6
613	72.1	4172	6187	5080	5111	0.45	23.75	8.81	1387	42.3
614	59.5	4195	6520	5197	5185	0.43	27.18	69.51	1623	39.2
615	72.1	3848	6432	4807	4805	0.37	25.39	332.74	1416	39.1
616	126.8	3935	6274	4994	4955	0.45	24.51	61.66	1571	67.2
617	105.6	4008	6424	4998	4984	0.41	26.76	59.18	1531	61.1
618	118.2	4106	6482	5157	5192	0.44	21.48	13.83	1420	52.6
619	3.1	4773	5758	5334	5347	0.57	19.48	24.62	999	1.0
620	4.1	4735	5779	5258	5241	0.5	17.4	333.72	1040	1.6
621	10.1	4726	5879	5258	5259	0.46	20.72	301.46	1119	4.2
622	16.2	4296	5705	4835	4830	0.38	23.16	173.65	1018	9.2
623	13.5	4832	6166	5378	5339	0.41	24.37	39.29	1146	8.4
624	12.5	4201	6104	4767	4727	0.3	27.78	148.11	1446	8.7
625	18.8	3897	5758	4570	4548	0.36	29.32	21.84	1424	13.1

Glacier ID	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean aspect (°)	Mean local relief (m)	Ice-free catchment area (km ²)
626	16.9	4753	5875	5405	5420	0.58	18.22	177.59	1048	6.9
627	14.5	4038	5479	4774	4774	0.51	24.95	93.02	1236	8.2
701	7.8	4106	5581	4980	5012	0.59	22.31	356.67	1216	2.2
702	28.3	4470	6312	5248	5232	0.42	28.22	255.33	1474	17.9
703	28.4	4197	5828	5083	5121	0.54	19.38	223.01	1136	13.1
704	19.9	4725	6186	5333	5312	0.42	23.88	80.23	1084	12.8
705	32.3	4537	6479	5313	5329	0.4	25.63	47.12	1242	18.8
706	45.2	4483	6057	5255	5277	0.49	21.99	73.41	1199	23.7
707	42.2	4706	6340	5314	5271	0.37	21.02	45.71	1132	19.1
708	36.3	4036	5854	4933	4959	0.49	25.34	258	1473	21.5
709	42.6	4447	6217	5301	5340	0.48	24.79	19.03	1342	24.0
710	61.1	4000	6220	4898	4911	0.4	26.63	274.62	1412	42.7
711	75.9	3872	6457	5165	5240	0.5	27.19	296.74	1481	47.4
712	148.8	4155	6414	5186	5234	0.46	21.06	69.46	1285	73.7
713	10.1	5070	6003	5540	5523	0.5	25.41	50.4	997	7.7
714	14.3	4239	6033	4895	4858	0.37	28	17.56	1498	10.8
715	11.0	4579	5940	5254	5272	0.5	22.3	251.35	1198	5.6
716	13.5	4470	5463	4938	4942	0.47	20.65	257.62	960	9.6
717	8.7	4762	6085	5332	5313	0.43	23.96	35.68	1255	4.1
718	10.8	4527	6184	5090	4962	0.34	23.62	20.82	1408	4.6
719	12.7	5013	5930	5452	5455	0.48	15.63	332.23	806	4.6
720	40.1	4065	5840	4775	4781	0.4	26.56	324.78	1419	27.9
801	11.8	5086	6227	5609	5590	0.46	24.28	10.36	1050	7.5
802	22.2	3992	6206	4799	4723	0.36	30.78	319.78	1765	16.9
803	18.7	4220	5748	5074	5146	0.56	25.47	227.76	1251	9.4
804	21.4	4504	6463	5273	5285	0.39	27.72	180.12	1366	12.6
805	23.8	4871	6114	5512	5506	0.52	21.97	64.5	1033	15.3
806	23.7	4658	6251	5290	5304	0.4	22.56	191.14	1297	12.3
807	31.7	4207	6246	5104	5090	0.44	26.82	353.23	1598	18.8
808	27.8	4072	5816	4918	4947	0.49	28.68	268.57	1325	17.9
809	53.1	4267	6294	5090	5130	0.41	24.1	231.09	1294	27.3
810	36.8	3968	6152	4906	4863	0.43	19.55	176.17	1400	20.9
811	113.0	3916	6421	4932	4941	0.41	25.11	209.73	1470	76.7
812	265.2	3942	6597	5337	5371	0.53	23.77	336.59	1311	157.0
813	7.8	3851	5688	4950	4940	0.6	27.17	15.57	1575	4.1
814	9.6	5070	6188	5619	5620	0.49	27.04	344.62	1027	6.6
815	17.9	5056	6269	5574	5573	0.43	23.11	348.53	1038	14.0
816	33.0	4359	6115	4998	4976	0.36	23.2	51.77	1425	20.8
817	20.1	3673	5983	4613	4630	0.41	32.74	311.98	1890	14.2
901	18.4	5435	6543	5925	5918	0.44	23.21	333.95	937	10.3
902	30.4	5199	6417	5837	5852	0.52	24.27	284.49	990	16.4
903	32.1	5056	6738	5709	5708	0.39	24.68	306.54	1164	16.6
904	2.6	5367	6365	5811	5801	0.44	25.14	356.91	1027	1.3
905	8.2	5549	6566	5967	5957	0.41	19.88	157.53	1019	3.9
906	10.3	5282	6544	5896	5921	0.49	29.69	307.66	1179	6.7
907	7.4	5198	6204	5751	5765	0.55	26.86	301.32	1071	3.7
1001	20.6	4463	6014	5231	5251	0.5	27.38	187.65	1320	7.9
1002	50.0	3972	6304	5091	5115	0.48	26.39	299.63	1679	29.2
1003	58.3	4098	6104	5103	5138	0.5	26.7	205.27	1443	29.7
1004	65.4	4246	6255	5192	5207	0.47	24.64	268.68	1433	42.5
1005	14.1	4595	6357	5221	5181	0.36	24.34	88.04	1371	6.8
1006	44.5	3695	6229	4698	4611	0.4	30.15	311.14	1875	27.7
1007	15.2	4340	6031	4938	4892	0.35	26.65	340.46	1456	10.3
1101	20.7	5012	6792	5791	5742	0.44	30.64	18.59	1441	14.4
1102	46.7	4699	6658	5521	5532	0.42	25.49	67.22	1315	28.7
1103	54.0	5134	6784	5792	5778	0.4	21.8	3.14	945	28.4
1104	72.0	3793	7130	5010	4886	0.36	31.46	41.29	2301	51.7
1105	69.4	4613	6931	5720	5728	0.48	28.53	211.17	1496	43.6
1106	148.7	4393	7040	5669	5682	0.48	28.69	277.66	1597	92.4
1107	108.8	3747	7112	5175	5174	0.42	29.34	114.49	1854	78.6
1108	267.7	4014	7102	5354	5286	0.43	27.62	340.81	1858	155.8
1109	8.4	5434	6858	5953	5903	0.36	32.17	325.81	1335	6.0
1110	22.1	5035	6374	5555	5526	0.39	24.32	348.41	981	15.9
1111	11.5	5122	6435	5761	5751	0.49	30.69	38.52	1204	8.9
1112	18.8	3729	6347	4939	4880	0.46	34.4	344.81	2130	15.9
1113	12.4	5049	6796	5875	5836	0.47	28.67	168.96	1450	6.1
1114	11.7	5276	6652	5815	5801	0.39	26.19	63.09	999	6.2
1115	25.4	4913	6764	5703	5641	0.43	28.18	321.61	1542	16.2
1201	15.9	5290	6298	5745	5729	0.45	19.07	10.26	840	8.5
1202	18.4	5241	6423	5840	5857	0.51	21.74	15.47	1044	8.2
1203	42.4	5108	6492	5702	5714	0.43	21.91	29.54	1103	20.2
1204	42.3	5164	6544	5697	5717	0.39	15.91	41.31	1059	18.2
1205	49.1	5083	6616	5689	5696	0.4	19.1	37.17	1277	27.3
1206	14.1	5356	6464	5786	5757	0.39	21.49	15.47	990	7.0
1207	18.7	5382	6819	5887	5862	0.35	19.44	85.88	991	10.1
1301	17.4	5163	6601	5783	5809	0.43	25.5	228.95	1133	10.4
1302	32.6	5029	6594	5692	5681	0.42	25.12	134.27	1342	21.6
1303	16.6	5105	6507	5665	5666	0.4	21.57	69.09	1080	6.4
1304	21.8	5462	6873	5930	5939	0.33	15.7	344.33	930	8.0
1305	29.1	4132	6954	5138	5140	0.36	33.13	46.7	1905	19.3

Glacier ID	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean aspect (°)	Mean local relief (m)	Ice-free catchment area (km ²)
1306	32.9	4993	7051	5868	5844	0.43	25.92	297.24	1400	18.2
1307	33.0	5407	6896	6058	6037	0.44	22.02	29.83	1175	17.5
1308	42.5	3895	7095	4946	4772	0.33	31.58	134.58	1965	33.1
1309	43.6	5287	6710	5956	5977	0.47	19.2	32.85	980	14.2
1310	50.0	4095	8081	5733	5816	0.41	33.02	240.56	2697	30.0
1311	51.9	4464	7059	5641	5683	0.45	26.65	310.14	1809	27.4
1312	100.0	3480	7812	5081	4890	0.37	33.55	48.62	2690	80.0
1313	71.0	4468	6878	5433	5354	0.4	24.14	133.35	1596	55.3
1314	59.9	3627	7082	5344	5604	0.5	26.09	186.84	1807	31.9
1315	6.2	5272	6381	5802	5806	0.48	23.53	3.09	1105	3.3
1316	6.5	5385	6721	5860	5819	0.36	27.41	226.73	1269	2.8
1317	5.7	5235	6425	5617	5561	0.32	23.41	29.65	1123	2.8
1318	8.0	5094	6507	5741	5714	0.46	27.81	45.76	1308	4.1
1319	8.9	5483	6973	6126	6118	0.43	26.07	323.52	1379	3.8
1320	18.7	5430	6760	5977	5934	0.41	20.23	26.96	1235	7.5
1321	11.5	4797	6959	6043	6057	0.58	28.51	289.02	1644	5.7
1322	17.5	3871	6557	4989	4916	0.42	27.83	252.18	1994	12.7
1323	12.5	5463	6698	6060	6052	0.48	22.87	29.43	1118	5.0
1324	12.3	5221	6822	5885	5875	0.41	26.35	239.23	1398	7.2
1325	16.8	5402	6718	5939	5897	0.41	21.01	68.61	1228	9.5
1326	15.2	5262	6696	5873	5869	0.43	25.98	299.12	1182	9.5
1401	10.0	5638	7613	6360	6285	0.37	26.29	219.86	1810	4.5
1402	28.4	4964	6940	5570	5512	0.31	23.75	213.63	1433	18.6
1403	31.7	5052	7083	5635	5619	0.29	25.11	215.21	1459	22.1
1404	25.3	4922	7734	6185	6082	0.45	27.66	347.57	2185	12.4
1405	27.2	5144	7197	5710	5677	0.28	25.97	200.8	1714	14.9
1406	21.0	4905	8465	5858	5500	0.27	32.57	201.06	2350	13.3
1407	38.4	4936	7291	5566	5409	0.27	24.25	180.77	1494	25.3
1408	24.6	5597	7162	6152	6113	0.35	17.69	79.99	926	8.9
1409	31.8	5003	7866	5777	5566	0.27	31.41	223.22	2133	17.0
1410	28.0	5558	7225	6242	6254	0.41	21.39	93.7	999	15.2
1411	40.4	5404	7821	6109	6119	0.29	23.07	87.02	1298	23.6
1412	70.0	5238	7929	6138	6085	0.33	24.58	35.59	1318	41.2
1413	39.3	5366	8177	6292	6205	0.33	28	301.3	1654	26.6
1414	35.6	4770	6838	5306	5221	0.26	22.35	115.64	1309	25.2
1415	55.2	5594	8306	6430	6394	0.31	25.35	341.32	1516	36.3
1416	98.0	4880	8412	5927	5913	0.3	26.29	186.45	1921	67.1
1417	48.0	4548	7246	5840	5985	0.48	27.02	80.54	1687	26.9
1418	64.2	5094	8177	6024	5941	0.3	23.85	317.03	1535	39.3
1419	71.2	5435	7901	6049	5996	0.25	23.99	86.58	1388	36.2
1420	84.7	5153	8790	6036	5959	0.24	27.59	323.91	1628	65.0
1421	1.9	5460	6279	5749	5733	0.35	25.79	84.22	824	1.0
1422	140.0	4531	8748	5752	5618	0.29	24.11	113.01	1839	104.9
1423	61.9	4833	8774	5978	5669	0.29	28.56	243.49	2360	43.7
1424	3.7	5516	6676	5815	5710	0.26	22.04	306.88	1187	2.1
1425	156.8	4660	8186	5602	5358	0.27	23.81	165.92	1577	98.8
1426	3.0	5780	6801	6198	6179	0.41	25.66	308.1	1043	1.4
1427	12.8	5179	6793	5560	5517	0.24	24.91	134.81	1239	7.2
1428	11.5	4770	6777	5359	5276	0.29	27.96	352.36	1608	8.3
1429	5.8	5065	6699	5727	5668	0.41	33.12	179.68	2034	4.0
1430	11.1	4956	7740	5569	5354	0.22	29.69	196.16	2101	7.9
1431	17.6	5854	6974	6431	6422	0.52	20.65	256.36	949	10.2
1432	22.2	4978	6551	5424	5350	0.28	24.24	127.24	1160	14.4
1433	46.2	4767	6842	5358	5291	0.29	23.73	304.75	1440	35.5
1434	14.2	5187	7107	5688	5556	0.26	28.6	164.36	1742	8.3
1435	13.0	5024	6812	5493	5384	0.26	28.12	148.47	1688	6.3
1436	10.9	5713	6590	6141	6150	0.49	20.27	294.11	763	6.1
1437	20.0	5850	7140	6344	6323	0.38	16.56	113.33	1044	8.9
1438	15.1	5652	6886	6213	6217	0.45	19.45	308.86	968	7.2
1501	33.9	4675	7860	5747	5713	0.34	31.61	314.04	2021	25.5
1502	13.1	5258	6821	5896	5885	0.41	27.8	36.72	1336	8.1
1503	16.8	5172	6455	5742	5769	0.44	20.5	43.35	1081	6.1
1504	51.1	5008	6989	5711	5700	0.35	28.13	168.41	1348	45.0
1505	16.7	5211	7443	5919	5796	0.32	25.3	38.69	1634	6.2
1506	40.8	5488	7443	6179	6120	0.35	23.32	316.88	1342	13.9
1507	69.7	4211	8393	5553	5347	0.32	29.48	105.38	2260	43.8
1508	145.9	4322	8515	5622	5441	0.31	29.72	225.09	2209	90.1
1509	219.5	4587	8533	5839	5792	0.32	27.62	223.69	1867	144.8
1510	204.1	4182	8526	5535	5485	0.31	25.12	87.54	1810	138.7
1511	1.9	5315	6168	5696	5706	0.45	27.96	317.61	853	0.7
1512	4.4	5694	6629	6033	5999	0.36	26.6	313.77	934	3.0
1513	14.4	4733	6170	5391	5404	0.46	24.66	330.25	1312	11.6
1514	2.9	5534	6554	6016	5984	0.47	26.21	302.31	910	1.2
1515	12.5	5343	6779	5984	5945	0.45	27.91	55.7	1261	8.0
1516	6.8	5440	6554	5928	5908	0.44	25.39	173.41	1033	3.4
1517	6.8	5189	6155	5699	5702	0.53	22.62	253.65	1002	2.9
1518	14.6	5563	6749	6080	6076	0.44	24.05	30.01	1112	6.5
1519	11.4	5066	6782	5787	5733	0.42	24.98	208.49	1493	3.6
1520	6.2	4876	6663	5804	5807	0.52	28.68	237.51	1526	2.5
1521	8.1	5442	6642	5916	5888	0.39	21.57	82.57	1170	2.6

Glacier ID	Area (km ²)	Min Z (m)	Max Z (m)	Mean Z (m)	Median Z (m)	HI	Mean slope (°)	Mean aspect (°)	Mean local relief (m)	Ice-free catchment area (km ²)
1522	6.0	5523	6820	6128	6084	0.47	25.03	345.3	1222	2.0
1523	15.5	5531	6773	6158	6148	0.51	25.52	274.54	1074	6.9
1524	8.2	5272	6545	5808	5779	0.42	24.55	8.71	1064	4.7
1525	8.6	5205	6722	5790	5748	0.39	26.04	209.21	1366	3.8
1526	10.1	5274	6528	5884	5900	0.49	24.23	339.42	1047	5.3
1527	13.3	5274	6494	5900	5899	0.51	25.44	346.43	1080	6.9
1601	20.6	4543	6296	5363	5405	0.47	21.18	319.23	1358	12.3
1602	14.2	5494	6820	6071	6028	0.43	13.63	357.56	925	6.0
1603	13.3	5312	7063	5985	5945	0.38	20.82	6.84	1229	6.5
1604	43.2	4069	7197	5115	4923	0.33	30.76	169.23	1992	31.5
1605	25.2	4397	7042	5499	5421	0.42	27.34	194.79	1785	15.8
1606	26.8	5152	7189	5944	5859	0.39	23.94	37.28	1381	11.7
1607	19.3	4921	7070	5943	5837	0.48	22.07	304.55	1484	7.2
1608	29.1	5336	7013	6147	6081	0.48	20.68	27.52	1172	15.3
1609	100.7	4811	7495	5774	5716	0.36	23.68	164.77	1667	54.7
1610	29.0	5084	6722	5661	5648	0.35	18.73	357.61	1077	15.6
1611	59.0	5150	7039	5864	5856	0.38	20.31	17.67	1407	31.8
1612	71.8	4388	7088	5168	5036	0.29	25.92	174.66	1496	47.4
1613	90.1	4065	7045	5158	4981	0.37	26.35	181.29	1863	45.1
1614	123.0	5307	6939	6092	6114	0.48	14.71	315.77	1022	60.7
1615	6.4	5270	6218	5657	5649	0.41	18.78	16.93	890	2.5
1616	6.7	4880	6041	5375	5355	0.43	21.75	43.99	1054	3.8
1617	8.4	4589	6074	5353	5336	0.51	26.64	326.57	1525	4.8
1618	6.0	5502	6649	6012	5990	0.44	23.62	13.42	1047	2.6
1701	9.4	5256	6512	6008	6062	0.6	21.77	39.14	1095	3.5
1702	6.8	5205	6460	5875	5889	0.53	17.44	34.58	1083	3.0
1703	9.1	5241	6474	5963	6047	0.59	18.52	342.11	1129	3.5
1704	9.3	5278	6517	5980	5996	0.57	22.18	322.99	991	4.5
1705	11.0	5294	6532	6008	6042	0.58	21.69	14.21	1029	2.8
1706	62.3	5371	6487	5919	5933	0.49	10.49	173.75	627	30.7
1707	54.1	5241	6594	6092	6154	0.63	18.13	37.27	883	32.6
1708	62.1	5447	6730	6047	6059	0.47	9.63	154.87	627	20.4
1709	56.3	5249	6722	6115	6159	0.59	18.14	331.18	792	21.0
1710	99.1	5449	7132	6090	6115	0.38	8.38	227.68	645	16.3
1711	94.3	4890	6675	6047	6104	0.65	18.16	4.95	887	33.4
1712	130.7	5101	6679	6081	6145	0.62	17.99	350.01	888	40.6
1713	199.0	3249	6840	6067	6120	0.78	10.09	137.54	896	35.6
1714	179.0	5151	6575	5964	6036	0.57	12.48	39.83	727	64.1
1715	278.9	4838	6708	6016	6079	0.63	16.49	9.62	844	82.9
1716	124.8	5035	6824	6074	6129	0.58	16.51	32.03	866	45.2
1717	275.6	4693	6878	6046	6126	0.62	17.04	10.93	929	81.9
1718	168.8	5099	6740	6063	6119	0.59	11.82	21.46	776	41.5
1719	4.7	5194	6299	5901	5927	0.64	20.39	356.47	978	1.8
1720	6.3	5193	6559	6038	6071	0.62	25.84	302.29	1228	2.5
1721	7.0	5014	6571	5975	6019	0.62	21.46	324.66	1228	2.3

Table S8: Glacier-surface velocities

Glacier ID	Mean number of data points	Data gaps (% of profile length)			Max U (m/y)	Mean U (m/y)	Normalized downstream distance of velocity peak	Ratio of half-length velocities	Exclusion of glacier for statistics in Figure†
		Mean gap size	Max gap size	Total data gaps					
101	101.0	1.6	4.1	9.6	59	22	0.33	0.27	-
102	3.2	0.9	2.4	11.4	18	8	0.30	0.33	-
103	4.0	1.5	6.4	19.1	67	40	0.25	0.69	-
104	4.4	1.4	3.1	6.7	70	28	0.34	0.23	-
105	3.9	0.9	3.3	10.7	147	43	0.21	0.72	-
106	3.7	3.9	7.6	19.4	14	7	0.27	0.35	-
107	4.2	5.7	7.6	16.7	19	10	0.54	1.44	-
108	3.1	2.1	5.2	14.1	26	13	0.37	0.83	-
202	7.6	1.2	3.0	10.4	113	43	0.27	0.31	-
203	3.3	1.7	5.0	23.6	115	52	0.36	0.62	-
204	4.7	1.1	1.7	6.6	68	24	0.32	0.18	-
206	6.7	0.8	1.2	4.6	48	26	0.14	0.65	-
208	10.4	0.5	1.6	4.2	64	31	0.21	0.54	-
209	7.6	0.9	1.8	15.6	224	104	0.34	1.01	6, 12
210	9.4	0.4	0.6	1.9	175	43	0.29	0.15	-
211	6.8	0.9	4.1	14.6	116	55	0.13	0.80	-
301	7.5	0.9	0.9	1.8	224	62	0.25	0.55	-
302	9.0	0.6	1.4	4.6	957	210	0.30	0.29	-
303	3.2	0.4	1.1	7.2	880	329	0.43	0.67	-
304	3.5	0.6	1.5	5.5	797	320	0.38	1.17	6, 12
305	9.6	0.3	0.6	2.2	563	141	0.25	0.28	-
306	5.7	0.6	2.2	10.5	318	176	0.54	0.88	-
307	7.3	0.2	0.7	4.1	207	54	0.12	0.33	-

Glacier ID	Mean number of data points	Data gaps (% of profile length)			Max U (m/y)	Mean U (m/y)	Normalized downstream distance of velocity peak	Ratio of half-length velocities	Exclusion of glacier for statistics in Figure†
		Mean gap size	Max gap size	Total data gaps					
308	7.4	1.1	1.1	2.2	71	32	0.39	0.62	-
309	2.6	0.6	1.9	16.6	426	107	0.27	0.40	-
401	14.6	0.6	6.1	20.9	324	175	0.48	0.97	-
402	28.3	0.8	0.8	1.7	83	33	0.20	0.43	-
403	17.2	1.2	2.6	7.2	138	60	0.29	0.78	-
404	5.9	2.0	7.7	9.7	96	45	0.10	0.42	-
405	7.1	0.8	1.7	6.3	49	28	0.07	0.55	-
407	17.1	0.2	0.2	1.3	164	74	0.38	0.33	-
408	21.1	0.4	0.8	3.1	131	58	0.35	0.48	6, 12
409	24.7	0.2	0.2	0.5	124	75	0.22	0.99	-
410	22.2	1.1	1.1	2.2	60	30	0.53	0.61	-
501	7.0	0.9	0.9	0.9	96	49	0.38	0.72	-
502	7.3	1.4	2.4	5.5	41	30	0.21	0.97	-
503	5.8	0.9	1.6	4.7	96	40	0.34	0.71	-
504	6.6	1.1	2.2	9.9	118	56	0.24	0.50	-
505	8.6	0.7	0.7	0.6	72	34	0.22	0.54	-
506	8.5	0.8	1.0	1.5	91	40	0.28	0.50	-
507	10.9	0.8	1.0	1.5	146	54	0.11	0.77	-
508	9.4	0.4	0.4	0.4	328	117	0.21	0.38	-
509	7.8	0.6	0.8	1.2	123	74	0.49	1.05	-
510	14.9	0.4	0.4	0.4	138	53	0.30	0.44	-
511	11.6	0.4	0.4	0.4	126	42	0.11	0.24	-
512	3.3	0.5	1.2	8	159	51	0.21	0.55	-
513	4.6	2.4	2.4	7	21	11	0.35	0.51	-
514	5.9	6.7	11.1	13	40	20	0.39	0.69	-
515	3.6	1.8	5.1	17.5	47	22	0.61	1.52	-
516	8.4	2.3	3.0	4.4	32	14	0.41	0.61	-
517	5.0	1.1	1.1	1.1	35	16	0.17	0.28	-
518	4.0	1.2	1.2	3.4	59	23	0.84	2.24	-
519	6.5	4.4	7.4	8.7	47	24	0.54	1.64	-
520	7.4	1.4	1.4	1.4	47	32	0.25	1.08	-
521	4.3	3.1	4.9	6	66	39	0.73	0.96	-
522	3.7	1.7	2.0	4.9	59	39	0.48	1.79	6, 12
523	16.4	0.3	0.9	3.1	365	100	0.13	0.48	-
601	3.5	5.3	22.0	21.1	79	23	0.42	0.56	6, 13
602	4.5	2.1	3.4	8.8	66	27	0.22	0.60	-
603	7.6	0.8	0.8	0.5	15	10	0.27	0.72	-
604	2.4	3.7	19.0	19.2	23	11	0.07	0.55	-
605	2.7	1.9	4.4	17.5	112	35	0.37	0.26	-
606	6.2	1.0	3.3	5.4	80	29	0.47	1.01	-
607	4.5	2.6	11.1	15	61	37	0.58	1.07	-
608	6.2	1.8	3.4	5.6	68	19	0.15	0.57	-
609	3.7	1.8	7.3	11	37	19	0.06	0.47	-
610	3.5	1.0	2.2	8.3	154	47	0.33	0.61	-
611	6.7	0.9	2.1	2.8	63	26	0.25	0.38	-
612	6.7	1.1	2.6	6.4	102	40	0.17	0.65	-
613	3.2	0.9	2.2	8	92	56	0.57	0.80	-
614	6.3	0.5	0.8	4.1	57	28	0.33	0.77	-
615	4.7	2.5	3.8	11.4	66	40	0.22	1.07	-
616	9.9	1.2	2.9	10.2	165	47	0.34	0.42	-
617	13.0	0.3	0.3	1.7	134	29	0.17	0.40	-
618	8.2	0.6	1.0	1.1	227	73	0.33	0.54	-
619	12.1	2.2	2.2	1.4	23	18	0.26	1.03	-
620	9.4	2.0	2.0	1.4	25	18	0.60	1.04	6, 12
621	6.7	2.7	2.7	1.8	29	18	0.35	0.85	-
622	6.1	0.9	0.9	1.9	12	6	0.40	0.96	-
623	2.2	2.7	6.8	15.4	25	12	0.37	0.57	6, 12
624	5.7	1.2	1.2	0.8	44	22	0.27	0.71	-
625	4.9	1.1	1.1	0.8	29	13	0.19	0.37	-
626	3.6	1.7	5.6	14.8	24	16	0.82	1.55	6, 12
627	6.1	1.5	2.1	4.6	48	17	0.32	0.50	-
701	5.7	2.2	2.8	6.5	109	35	0.77	1.91	-
702	6.0	1.7	4.2	11.6	26	16	0.36	0.46	-
703	9.2	1.7	3.4	6.8	56	28	0.78	2.15	-
704	10.7	2.0	5.4	8.1	47	25	0.46	0.62	-
705	13.8	0.6	0.6	1.9	56	29	0.13	0.54	-
706	10.2	0.6	0.6	1.8	41	18	0.24	0.37	-
707	11.6	1.0	1.4	4.8	52	27	0.25	0.69	-
708	8.4	1.2	1.8	3.6	76	31	0.41	0.34	-
709	14.6	0.9	1.1	1.7	77	35	0.33	0.42	-
710	4.6	0.6	1.8	7.5	44	17	0.28	0.41	-
711	8.2	1.3	5.9	13.2	185	64	0.40	0.55	-
712	11.2	0.6	1.0	1.7	196	74	0.36	0.46	-
713	10.5	1.6	1.6	4.8	12	8	0.35	0.85	-
714	4.7	4.1	7.9	20.3	36	14	0.17	0.30	6, 13
715	8.6	2.7	5.4	8	79	29	0.57	1.76	-

Glacier ID	Mean number of data points	Data gaps (% of profile length)			Max U (m/y)	Mean U (m/y)	Normalized downstream distance of velocity peak	Ratio of half-length velocities	Exclusion of glacier for statistics in Figure†
		Mean gap size	Max gap size	Total data gaps					
716	5.8	2.0	2.6	7.8	17	10	0.52	0.76	-
717	10.0	1.4	1.4	1.4	23	14	0.51	0.83	-
718	4.5	2.1	3.4	16.9	43	15	0.08	0.25	-
719	4.3	2.1	3.4	10.2	19	12	0.38	0.87	-
720	5.3	1.6	3.2	6.3	56	16	0.34	0.34	-
801	6.7	1.2	1.2	3.6	24	15	0.19	0.75	-
802	13.6	5.4	5.4	5.4	21	14	0.14	0.57	-
803	7.4	1.4	3.3	11.5	63	29	0.81	2.14	-
804	8.4	0.8	0.8	0.8	21	12	0.32	0.49	-
805	8.9	0.8	0.8	0.8	33	14	0.28	0.70	-
806	11.1	1.7	2.7	3.4	26	16	0.66	1.10	-
807	12.1	0.7	0.7	2.8	41	28	0.36	0.94	-
808	7.7	0.7	1.1	7.4	31	12	0.15	0.42	-
809	10.7	1.1	1.6	2.1	41	17	0.29	0.44	-
810	7.5	1.3	4.1	11.7	149	64	0.37	0.76	-
811	16.7	0.4	0.4	0.4	39	26	0.46	0.82	-
812	15.6	1.3	4.8	6.7	58	29	0.31	0.51	-
813	11.0	2.4	4.3	7.1	52	30	0.77	1.09	-
814	3.9	1.3	1.3	2.5	18	11	0.18	0.72	-
815	10.0	1.2	1.2	3.5	19	10	0.14	0.59	-
816	14.0	2.0	4.6	11.9	28	14	0.22	0.51	-
817	5.1	1.4	3.2	11.5	25	14	0.27	0.89	-
901	7.8	1.0	1.0	2.8	11	8	0.39	0.80	-
902	10.2	1.2	1.4	4.9	19	11	0.43	0.79	-
903	10.9	0.9	1.4	3.5	32	16	0.38	0.52	-
904	5.7	3.0	5.5	8.9	12	7	0.38	0.68	-
905	3.5	1.4	1.4	1.4	5	4	0.50	1.25	6, 12
906	6.5	3.9	10.8	19.1	21	11	0.41	0.46	-
907	5.7	2.9	5.9	8.7	18	8	0.21	0.55	-
1001	6.9	0.8	0.8	1.5	27	12	0.26	0.47	-
1002	3.8	0.8	1.1	6.1	213	74	0.31	0.57	-
1003	7.6	0.7	1.3	2.1	53	16	0.17	0.35	-
1004	5.4	1.6	14.0	21	35	17	0.08	0.41	-
1005	5.8	4.8	8.1	9.5	50	26	0.41	0.65	-
1006	4.5	1.0	2.2	9.6	29	11	0.42	0.36	-
1007	5.5	1.3	2.2	6.4	47	18	0.19	0.31	-
1101	9.7	1.0	1.0	1	28	12	0.17	0.56	-
1102	2.7	2.3	9.4	26.9	29	11	0.38	0.37	6, 12
1103	6.8	1.3	2.3	6.4	21	13	0.35	0.66	-
1104	5.2	0.9	1.9	6.2	60	28	0.12	0.56	-
1105	8.0	0.8	1.4	3.2	77	20	0.32	0.34	-
1106	7.1	0.4	1.0	2.5	89	22	0.19	0.39	-
1107	5.1	1.5	4.5	13.2	86	28	0.09	0.70	-
1108	8.5	0.8	2.7	16.4	113	51	0.21	0.60	-
1109	6.2	3.0	6.3	8.8	14	8	0.46	0.94	-
1110	2.3	3.0	6.0	23.8	19	11	0.38	0.80	-
1111	4.8	2.0	2.5	9.8	7	4	0.22	0.51	6, 12
1112	10.2	4.9	4.9	4.8	42	30	0.10	0.82	-
1113	6.7	1.2	1.2	2.4	23	14	0.51	0.59	-
1114	3.4	2.5	5.7	15	28	11	0.18	0.30	-
1115	5.3	1.4	1.9	5.7	18	10	0.17	0.45	-
1201	6.9	0.9	0.9	2.7	17	12	0.23	0.86	-
1202	2.6	2.4	5.8	14.4	22	14	0.46	1.12	-
1203	4.9	1.3	4.6	9.1	66	26	0.29	0.47	-
1204	2.4	1.8	7.1	20	67	36	0.49	1.34	6, 12
1205	0.9	6.5	27.6	32.3	71	48	0.76	1.45	6, 12, 13
1206	6.3	1.3	2.3	9.2	21	11	0.16	0.47	-
1207	1.9	6.1	16.4	36.4	39	19	0.13	0.78	6, 12, 13
1301	3.1	2.7	10.0	15.8	57	21	0.55	0.81	-
1302	2.3	1.8	5.5	9.1	37	14	0.30	0.48	-
1303	4.2	1.9	3.7	5.6	47	26	0.56	0.79	-
1304	5.2	3.7	7.2	22.2	36	20	0.49	1.46	6, 12, 13
1305	6.7	1.1	2.3	4.5	45	19	0.17	0.42	-
1306	3.2	1.1	3.2	6.4	67	34	0.20	0.40	-
1307	3.2	3.1	6.4	27.5	39	22	0.25	0.65	-
1308	4.4	1.2	3.1	9.3	72	22	0.11	0.41	-
1309	5.4	1.3	2.2	8.9	44	21	0.37	1.04	-
1310	2.0	2.4	11.7	28.2	527	100	0.48	0.83	6, 13
1311	3.0	1.8	6.1	22	128	30	0.19	0.18	6, 13
1312	6.8	0.6	0.9	1.9	68	35	0.11	0.55	-
1313	5.3	1.7	5.5	10.2	208	58	0.26	0.28	-
1314	2.7	1.4	7.5	24.6	266	92	0.39	0.68	6, 12, 13
1315	3.2	2.8	5.6	11.1	52	22	0.60	1.25	-
1316	3.7	5.5	9.1	10.7	20	11	0.55	1.19	-
1317	3.5	4.0	6.5	7.9	39	18	0.41	0.43	-
1318	2.8	1.4	1.4	2.7	41	21	0.64	0.97	-

Glacier ID	Mean number of data points	Data gaps (% of profile length)			Max U (m/y)	Mean U (m/y)	Normalized downstream distance of velocity peak	Ratio of half-length velocities	Exclusion of glacier for statistics in Figure†
		Mean gap size	Max gap size	Total data gaps					
1319	5.2	3.6	5.8	7.1	26	17	0.27	0.68	-
1320	5.8	3.0	7.6	15	22	15	0.45	0.90	-
1321	2.6	2.7	6.0	13.1	64	38	0.88	2.18	-
1322	7.7	7.1	7.1	7	13	8	0.37	0.39	-
1323	2.7	6.2	11.2	24.4	39	18	0.34	0.84	6, 13
1324	3.1	2.9	8.8	17.4	51	20	0.54	1.51	-
1325	3.7	2.2	5.6	27.8	25	16	0.56	1.36	-
1326	2.5	3.2	6.3	18.7	34	15	0.31	0.38	-
1401	9.8	1.5	2.3	4.5	33	15	0.72	1.54	-
1402	24.1	0.6	0.6	2.4	22	7	0.08	0.11	-
1403	4.0	1.4	3.6	12.8	28	13	0.12	0.32	-
1404	18.3	0.9	0.9	1.7	33	23	0.72	1.48	-
1405	11.9	1.0	1.6	4	59	21	0.19	0.23	-
1406	19.6	0.9	0.9	1.7	37	14	0.18	0.08	-
1407	17.3	0.7	0.7	0.7	41	13	0.10	0.28	-
1408	17.2	0.7	0.7	0.7	52	28	1.00	2.47	-
1409	15.0	0.7	0.7	0.7	89	19	0.37	0.42	-
1410	16.5	1.9	3.4	7.4	29	18	0.51	0.87	-
1411	20.8	0.6	0.6	0.6	27	9	0.24	0.30	-
1412	20.7	0.8	1.4	2.4	50	18	0.17	0.17	-
1413	8.7	0.6	0.6	1.1	39	17	0.28	0.23	-
1414	14.9	0.5	0.5	2.2	18	5	0.16	0.41	-
1415	31.5	0.5	0.5	1.1	28	17	0.31	0.56	-
1416	17.0	0.4	0.4	1.2	54	13	0.09	0.12	-
1417	12.4	1.9	4.1	7.8	125	34	0.74	2.61	-
1418	10.4	0.8	1.5	6.7	38	16	0.27	0.34	-
1419	35.5	0.4	0.4	0.4	46	19	0.19	0.32	-
1420	28.7	0.5	0.7	1.1	66	29	0.12	0.15	-
1421	11.0	3.7	3.7	3.6	19	9	0.43	0.62	-
1422	17.4	0.4	0.4	2.2	51	28	0.08	0.47	-
1423	25.8	1.0	1.4	7.9	232	45	0.40	0.14	6, 13
1424	11.6	4.6	6.9	13.3	8	6	0.33	1.10	-
1425	26.8	0.4	0.6	2.4	139	33	0.20	0.14	-
1426	6.0	2.3	2.3	4.4	11	7	0.33	0.76	-
1427	22.0	1.1	1.1	2.1	14	4	0.24	0.15	-
1428	14.0	1.5	1.5	1.4	7	3	0.14	0.27	-
1429	5.8	1.7	1.7	1.7	26	17	0.19	0.71	-
1430	19.2	1.3	1.3	3.8	12	4	0.26	0.21	-
1431	10.7	3.2	4.8	6.3	8	6	0.40	1.13	-
1432	9.1	0.9	0.9	2.6	11	5	0.10	0.18	-
1433	2.5	3.0	8.8	42	98	13	0.20	0.07	6, 13
1434	23.1	1.1	1.1	1.1	29	13	0.16	0.17	-
1435	7.5	1.1	1.1	1.1	19	8	0.08	0.21	-
1436	8.5	1.3	1.3	6.3	7	5	0.73	1.13	-
1437	7.3	1.1	1.1	1.1	7	6	0.16	0.87	-
1438	14.0	1.1	1.1	1.1	20	11	0.53	0.95	-
1501	4.2	0.9	2.4	11.2	84	22	0.35	0.19	-
1502	14.4	1.1	1.1	3.2	44	19	0.24	0.54	-
1503	6.5	1.6	2.8	4.6	28	15	0.55	1.78	-
1504	6.9	1.0	1.9	3.8	31	9	0.23	0.17	-
1505	18.3	0.8	0.8	1.7	67	36	0.33	0.61	-
1506	12.3	0.7	0.7	3.2	101	24	0.29	0.64	-
1507	7.2	1.0	2.5	4.9	101	56	0.13	0.63	-
1508	12.7	0.3	0.5	2.9	95	17	0.24	0.26	-
1509	7.8	0.4	0.6	4.5	123	26	0.22	0.13	-
1510	12.3	0.4	0.5	2.2	137	36	0.04	0.17	-
1511	16.0	3.3	3.3	3.2	31	17	0.48	0.83	-
1512	8.2	2.3	2.3	2.2	17	10	0.33	0.99	-
1513	4.7	2.3	3.8	13.6	37	12	0.38	0.15	-
1514	7.2	2.3	2.3	2.3	25	15	0.18	0.68	-
1515	5.7	2.7	3.9	13.5	40	28	0.83	1.42	-
1516	6.3	1.6	1.6	1.6	33	13	0.63	2.67	-
1517	7.0	2.2	3.5	8.6	68	31	0.43	0.74	-
1518	6.5	1.9	2.6	3.8	45	27	0.41	1.21	-
1519	6.0	1.3	1.3	2.5	34	22	0.80	1.19	-
1520	4.3	2.3	4.6	9.1	74	34	0.65	1.78	-
1521	13.5	1.4	1.4	1.4	39	25	0.49	1.59	-
1522	18.1	1.3	1.3	2.5	23	15	0.80	1.27	-
1523	12.4	1.3	1.3	2.5	30	21	0.46	1.20	-
1524	8.2	1.3	1.3	2.5	30	17	0.88	1.22	6, 13
1525	6.0	3.4	6.9	13.6	67	28	0.60	1.01	6, 12
1526	10.3	1.1	1.1	2.1	64	34	0.82	2.98	-
1527	14.2	1.1	1.1	1.1	48	30	0.33	0.97	-
1601	14.2	0.9	0.9	0.9	159	63	0.55	1.42	-
1602	5.6	2.8	5.6	11	65	40	0.42	1.14	-
1603	25.2	0.9	0.9	0.9	64	40	0.72	0.96	-

Glacier ID	Mean number of data points	Data gaps (% of profile length)			Max U (m/y)	Mean U (m/y)	Normalized downstream distance of velocity peak	Ratio of half-length velocities	Exclusion of glacier for statistics in Figure†
		Mean gap size	Max gap size	Total data gaps					
1604	8.9	0.8	1.2	2.4	32	15	0.18	0.36	-
1605	10.6	0.7	0.7	2.9	100	57	0.16	0.62	-
1606	4.4	1.9	5.0	22.7	102	64	0.55	0.97	6, 12
1607	18.9	0.6	0.6	0.6	111	41	0.87	1.24	-
1608	7.8	1.2	4.4	10.9	227	61	0.28	0.23	-
1609	1.6	3.6	10.9	43.3	255	65	0.32	0.20	6, 13
1610	22.7	0.5	0.5	1	170	60	0.55	1.42	-
1611	23.2	0.5	0.8	2.9	92	66	0.43	0.81	-
1612	17.7	1.9	3.4	3.7	195	33	0.12	0.11	-
1613	6.4	0.7	1.1	7.5	133	35	0.22	0.13	-
1614	7.7	0.6	0.8	3.4	211	80	0.61	1.34	-
1615	12.1	2.0	2.0	5.8	23	13	0.52	0.94	-
1616	9.3	1.4	1.4	4.2	107	53	0.31	0.47	-
1617	12.1	2.8	5.7	11.1	36	21	0.54	0.77	-
1618	32.9	1.3	1.3	1.3	26	12	0.37	0.47	-
1701	6.0	2.1	5.2	8.2	21	11	0.70	3.31	-
1702	9.7	1.3	2.0	5	25	13	0.75	2.35	-
1703	18.1	0.9	0.9	2.8	52	26	0.64	2.63	-
1704	14.4	0.9	0.9	0.9	19	10	0.72	2.06	-
1705	5.1	1.4	3.5	8.6	37	18	0.61	2.78	6, 12, 13
1706	12.8	1.1	3.4	17.2	51	33	0.62	1.66	6, 12
1707	10.4	0.6	1.4	8.7	58	21	0.65	2.98	-
1708	2.8	1.1	3.9	36.1	24	10	0.60	2.34	6, 12, 13
1709	19.7	0.6	1.2	3.7	42	24	0.69	2.18	-
1710	4.8	0.8	2.9	27.6	34	14	0.60	1.40	6, 12, 13
1711	15.7	0.6	1.0	1.7	75	44	0.40	1.83	6, 12
1712	9.5	0.4	0.7	4	68	38	0.57	1.87	-
1713	18.1	0.3	0.4	2	46	15	0.29	0.20	6, 12, 13
1714	5.8	0.5	1.2	13.2	20	8	0.42	0.67	6, 12, 13
1715	12.1	0.4	0.8	5.4	60	30	0.60	2.36	-
1716	18.2	0.4	0.8	5.5	54	29	0.93	2.10	-
1717	23.2	0.3	1.1	5.5	78	49	0.66	1.90	-
1718	8.0	0.5	1.6	19.3	14	9	0.48	1.73	-
1719	15.5	1.3	1.3	1.3	18	11	0.66	2.31	-
1720	11.5	2.0	4.1	8	31	16	0.64	2.88	-
1721	7.2	3.4	6.1	10	41	20	0.79	2.84	-

† We excluded several glaciers from certain statistical analysis and the corresponding Figures of the manuscript, as shown in this column. Exclusion of glaciers is based on the following procedure: First, we calculated the statistical parameters, i.e., normalized downstream distance of velocity peak, ratio of half-length velocities, and mean velocity, based on the interpolated and smoothed average velocity profile. Second, we calculated the same parameters but based on an averaged and smoothed velocity profile, in which we did not interpolate over data gaps. If the results from these two computations were within 15% of each other, we retained the result from the interpolated profile. Third, because some velocity profiles with significant scatter or data gaps have passed this quality test, we then checked all remaining velocity profiles manually and excluded those where significant data scatter and/or large data gaps may cast doubt on the statistics.

Auxiliary Material References

Scherler, D., S. Leprince, and M. R. Strecker (2008), Glacier-surface velocities in alpine terrain from optical satellite imagery - accuracy improvement and quality assessment, *Remote Sens. Environ.*, 112, 3806–3819, doi:10.1016/j.rse.2008.05.018.