Supplementary data for

Tracing glacier changes since 1960s on the south slope of Mt. Everest (central southern Himalaya) using optical satellite imagery

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Table T1. A complete set of data on glacier Surf, Atern, SLA and DebrisCov for all analysed glaciers with their morphological parameters (slope, aspect, elevation) for 1962-2011.

Glacier name	Surface area (km ²)					Terminus difference (m)					SLA (m asl)					Debris-cover area (%)					Slope (deg)					Aspect (deg)					Elevation (m)						
	1962	1975	1992	2000	2008	2011	1962-75	1975-92	1992-00	2000-08	2008-11	1962	1975	1992	2000	2008	2011	1962	1975	1992	2000	2008	2011	1962	1975	1992	2000	2008	2011	1962	1975	1992	2000	2008	2011		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
1	Amu Dabhan	10.6	10.5	10.4	10.3	9.8	9.6	39	-44	-56	-86	-39	5183	5199	5247	5264	5337	5387	23	23	25	24	25	22	29.6	28.1	26.9	29.8	28.7	29.5	236	227	234	236	244	239	
2	Blotz Koshi	43.7	43.6	43.2	43.1	42.9	42.7	-140	-215	-80	-146	-42	5224	5382	5402	5544	5606	5632	23	30	37	40	41	41	24.3	25.9	24.8	23.6	25.0	24.2	174	170	174	136	168	172	
3	Chulu	10.2	9.8	9.1	8.8	8.0	7.7	-65	-40	-152	-169	-7	5139	5231	5288	5342	5368	5364	32	24	20	21	26	28	25.3	26.6	24.8	23.5	24.0	21.2	133	120	119	113	111	112	
4	Chilunggo	16.5	9.3	7.6	7.2	6.5	7.0	-78	-136	-168	-45	0	5124	5257	5121	5299	5360	5372	-	-	5	4	5	5	27.3	27.6	26.7	26.0	26.0	26.4	149	133	140	126	155	144	
5	Chulu	2.3	2.9	1.9	1.5	1.4	1.4	234	212	-24	-15	0	4987	4946	5062	5088	5124	5152	40	35	45	59	62	63	35.7	35.5	31.8	33.1	30.0	30.7	105	105	104	101	103	103	
6	Cholote	2.5	1.7	1.5	1.5	1.5	1.5	0	96	0	-98	-28	5078	5141	5183	5195	5262	5244	44	63	66	76	82	75	33.5	27.5	24.2	23.6	24.4	24.6	240	244	226	225	209	235	
7	Dawo	2.2	2.2	2.1	2.2	2.1	2.1	182	172	-99	0	0	-	4984	4969	4985	5039	-	-	33	39	40	48	-	30.3	32.9	31.9	34.2	30.0	30.1	210	237	227	215	217	218	
8	Ispe	28.1	28.0	27.0	27.2	26.4	25.5	-862	-458	-336	-255	-207	5340	5400	5455	5473	5491	5742	27	23	23	23	25	27	30.2	33.1	32.1	33.5	32.8	33.1	210	204	210	148	215	218	
9	Kala_gj125	1.9	1.7	1.5	1.4	1.0	0.9	-182	-153	-88	-123	-56	5444	5462	5448	5423	5444	5442	17	-	0	-	-	12	26.1	27.9	25.7	24.9	18.2	17.6	168	170	172	170	164	162	
10	Kala_gj181	1.3	1.1	1.4	0.7	0.6	0.6	0	0	0	0	0	5219	-	-	-	5350	-	-	-	-	-	-	4	-	46.9	41.7	41.0	41.4	41.8	43.1	215	231	239	231	243	233
11	Kala_gj38	2.8	2.1	1.6	0.9	0.8	0.7	-142	-420	-192	-345	-45	5208	5305	5246	5298	5368	5490	-	-	2	-	-	18	38.4	40.7	38.0	39.8	38.8	39.7	87	85	77	75	90	74	
12	Khangri	18.6	19.1	18.6	17.9	18.5	17.2	0	0	0	0	0	5352	5383	5432	5451	5533	5584	25	27	30	32	33	37	25.2	25.4	24.7	23.3	23.2	23.3	168	160	167	153	160	160	
13	Khangri	40.1	38.9	38.0	38.4	38.4	37.5	0	54	-14	0	0	5403	5545	5519	5588	5681	5750	15	19	19	20	23	24	29.7	30.6	30.4	30.2	29.7	29.5	207	4038	4844	8289	6136	4876	
14	Kyabu	1.6	1.7	1.2	1.0	1.0	1.0	65	-110	0	0	-9	5433	-	5385	5325	5388	5386	-	-	-	-	9	35	19.4	20.7	15.9	15.8	16.0	13.9	120	123	113	113	115	117	
15	Lamphik	3.0	2.6	2.0	2.3	2.1	2.2	-117	-426	-103	-115	-103	5193	5094	5249	5206	5214	5230	39	27	38	35	40	41	23.7	25.6	21.4	24.3	22.3	25.9	143	148	130	141	127	166	
16	Lamphiche	5.5	4.9	3.7	3.3	2.9	2.8	-598	-350	-27	-203	-112	5184	5150	5168	5147	5202	5191	16	16	3	6	8	10	35.8	40.6	39.0	40.4	40.7	40.4	114	99	105	97	116	91	
17	Lhotse	15.6	16.8	15.9	15.3	15.4	14.6	0	231	-63	-188	-42	5463	5429	5425	5544	5664	5713	36	31	40	42	45	42	31.3	33.3	31.7	29.6	29.8	30.7	206	203	207	203	202	207	
18	Lhotse	2.0	1.7	1.7	1.6	1.7	1.7	0	-29	-37	0	0	5347	5380	5418	5322	5378	5628	31	35	39	41	43	46	23.7	22.3	21.9	22.8	21.8	21.2	114	137	145	130	139	140	
19	Lamathaba	20.4	21.6	22.9	20.8	19.3	18.4	0	0	0	0	0	5445	5518	5454	5480	5582	5608	23	24	19	22	29	31	26.4	27.6	26.7	26.5	27.8	26.4	187	192	191	165	186	186	
20	Machomo	2.1	2.5	1.9	1.1	1.2	1.2	-166	-302	25	105	0	5361	-	5443	5330	5303	5552	5	-	-	-	-	51	25.5	27.0	24.9	24.4	25.5	22.6	168	145	145	150	143	149	
21	Michang	12.0	11.6	11.4	11.3	10.9	10.8	-234	-425	-45	-170	-46	5263	5339	5386	5440	5493	5480	37	29	32	32	34	30	21.0	22.4	22.1	23.1	24.2	20.9	150	145	144	130	144	146	
22	Nare	9.3	7.6	6.9	6.6	6.0	5.8	-359	-48	-329	-165	-46	5332	5308	5295	5266	5336	5436	28	18	25	24	25	24	29.0	31.2	29.9	31.9	29.5	30.6	234	228	233	184	239	241	
23	Narayangang	6.9	6.1	6.4	5.9	5.5	5.5	-186	-74	-40	0	0	5361	5422	5422	5460	5509	5528	27	37	35	41	47	40	28.2	28.1	26.8	26.4	25.3	25.7	207	214	212	194	213	215	
24	Narayangang	98.7	98.7	98.3	98.0	97.7	97.3	-82	-176	-48	-125	-24	5381	5532	5496	5507	5568	5570	27	27	26	27	28	31	23.8	24.5	24.0	24.1	24.5	23.9	185	179	184	133	182	181	
25	Nyctis	9.2	9.2	8.8	8.0	8.1	7.9	-79	92	0	0	0	5515	5505	5615	5569	5574	5588	28	31	35	36	38	37	30.8	30.9	31.0	28.9	29.2	29.2	214	212	218	147	211	210	
26	Phunki	2.0	1.7	1.7	1.8	1.7	1.6	-156	-296	-189	-174	0	-	-	-	-	5028	-	-	-	-	-	-	-	45.7	58.5	58.1	47.8	48.8	48.0	218	207	210	216	215	221	
27	Thyangbo	13.3	14.7	13.6	12.1	8.8	8.6	-210	-36	-72	0	-143	5079	5069	5139	5247	5271	5289	14	10	9	12	20	26	37.0	37.6	36.7	37.2	35.1	33.8	139	131	129	131	130	123	
28	Tingbo	1.5	1.4	1.3	1.2	1.1	1.2	-140	-60	-44	0	0	5402	5262	5271	5328	5370	5431	-	-	21	40	38	39	40	33.3	36.3	34.8	30.4	29.3	30.9	230	241	241	235	241	237
29	W-cholte	5.6	5.0	4.7	5.0	4.5	4.4	-52	114	16	-46	-70	5299	5252	5280	5384	5398	5492	29	33	37	36	39	40	32.6	35.0	35.7	33.2	34.4	33.4	210	201	203	196	204	197	
30	OTHER GLACIERS	21.0	19.4	19.0	16.7	12.4	12.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.8	35.0	33.6	37.3	36.4	36.2	198	160	193	186	183	182	
		397	427	430	441	428	435	441	528	439	443	436	451	528	439	443	436	451	528	439	443	436	451	528	439	443	436	451	528	439	443	436	451	528	439	443	