

Table S2. Glacier inventory of North-Chuya ridge for 2000. Designations correspond to those in the table S1. The numerical numbers of glaciers correspond to the numbering of modern glaciers, the L-index denotes glaciers that existed during the Little Ice Age, but disappeared by 2021, the M-index denotes glaciers that existed during in 2000, but dis-appeared by 2021.

N	Name	$\lambda$ , °	$\varphi$ , °	S, km <sup>2</sup>	Morphologica l type	Z <sub>1</sub>	Z <sub>2</sub>	ELA	$a_{max}$ , °	$a_{av}$ , °	S <sub>3D</sub> , km	E, °
Jelo river basin												
1		87.73	50.01	0.58±0.06	cirque	2826	3181	2971	50.2	24.0	0.66	E, 79
2		87.72	50.01	0.70±0.07	cirque-valley	2776	3327	3016	65.6	23.3	0.80	NE, 68
3	Jelo	87.71	50.03	7.06±0.44	valley	2694	3688	3157	58.9	16.5	8.00	E, 101
4		87.72	50.05	0.06±0.02	hanging	3279	3453	3352	39.7	28.9	0.06	SW, 214
5		87.75	50.04	0.53±0.10	slope	3203	3660	3507	42.5	18.4	0.57	SE, 158
6		87.76	50.04	0.19±0.04	cirque	3066	3391	3180	64.9	26.5	0.22	E, 96
7		87.77	50.05	0.02±0.01	slope	3313	3334	3323	21.4	9.1	0.02	E, 84
8	Kupol	87.79	50.04	1.28±0.15	flat summit	3159	3551	3406	28.2	14.9	1.33	S, 152
9		87.80	50.02	0.14±0.04	cirque- hanging	3143	3309	3247	53.1	22.5	0.15	E, 84
10		87.80	50.02	0.11±0.02	cirque- hanging	2989	3252	3086	43.8	28.2	0.13	NE, 56
L4		87.83	50.05	0.13±0.04	flat summit	3179	3318	3247	22.9	13.2	0.13	NE, 51
In total in the basin of the Jelo river 11 glaciers with total area of 10.78±0.97 km <sup>2</sup> have been reconstructed . minimal altitude is 2694 m. maximal altitude is 3688 m area weighted average ELA is 3150 m												
Tete river basin												
11		87.86	50.05	0.39±0.07	flat summit	3285	3450	3367	31.5	12.5	0.40	N, 23
12		87.88	50.05	0.10±0.03	flat summit	3253	3384	3353	46.2	15.4	0.10	N, 28
13		87.89	50.05	0.38±0.05	cirque	2955	3357	3132	59.5	25.0	0.44	N, 28
14		87.87	50.06	0.07±0.02	cirque- hanging	3124	3330	3250	46.4	32.3	0.08	NE, 62
15	Tete	87.81	50.05	0.74±0.12	valley	2804	3471	3092	61.9	27.4	0.89	NE, 51
16		87.80	50.06	0.96±0.10	cirque	2883	3551	3184	53.3	20.9	1.05	NE, 39
M1		87.88	50.05	0.09±0.03	hanging	2928	3327	3114	50.1	33.5	0.11	N, 349

In total, in the basin of the Tete river 7 glaciers with total area of 2.72±0.41 km<sup>2</sup> have been reconstructed. minimal altitude is 2804 m, maximal altitude is 3551 m. area weighted average ELA is 3158 m

Aktru river basin										
17	87.79	50.05	0.84±0.07	slope	3055	3551	3340	35.1	18.5	0.89 NW, 343
18	87.78	50.05	0.74±0.08	cirque	2627	3516	3219	57.0	25.0	0.86 N, 6
19 Malyi Aktru	87.75	50.05	2.90±0.21	valley	2255	3709	3238	62.8	20.6	3.20 NE, 34
20	87.75	50.06	0.04±0.02	hanging	3294	3521	3422	47.5	33.9	0.05 N, 349
21	87.75	50.06	0.05±0.02	hanging	3278	3521	3436	47.0	34.0	0.06 NW, 338
22 Pravyi Aktru	87.71	50.06	4.90±0.54	valley	2460	3727	3188	62.3	25.6	5.94 NE, 56
23	87.74	50.05	0.02±0.01	hanging	3319	3515	3461	57.0	36.6	0.03 N, 0
24	87.71	50.07	0.16±0.03	slope	3168	3430	3266	42.2	19.3	0.17 SE, 107
25 Levyi Aktru	87.70	50.08	5.48±0.34	valley	2617	3970	3278	73.0	24.4	6.64 E, 73
				cirque-						
26	87.72	50.09	0.20±0.03	hanging	3224	3566	3340	39.9	25.3	0.22 E, 79
27 Kysyl-Tash	87.74	50.09	0.44±0.08	cirque	2785	3442	3076	61.2	29.4	0.53 N, 17
				cirque-						
28	87.71	50.09	0.35±0.08	hanging	2874	3551	3121	65.8	33.9	0.48 N, 11
29	87.70	50.09	0.16±0.03	hanging	3213	3560	3378	61.3	37.6	0.22 NE, 17
30 Yan-Karasu	87.70	50.10	1.32±0.24	valley	2792	3960	3303	68.7	28.3	1.63 E, 73
31 Malyi Korumdu	87.71	50.11	0.41±0.09	valley	2651	3715	3112	44.1	28.3	0.48 NE, 45
32 Korumdu	87.68	50.11	5.70±0.72	valley	2299	3964	3252	65.1	30.8	8.29 NE, 56
33	87.67	50.13	0.85±0.16	cirque-valley	2638	3967	3165	55.0	33.8	1.11 NE, 45
L23	87.67	50.14	0.12±0.03	cirque	2911	3200	3037	41.3	25.8	0.13 NE, 56
34 Kurkurek	87.65	50.14	2.14±0.19	valley	2495	3967	3225	64.8	29.4	2.72 N, 23
35	87.63	50.14	0.52±0.07	cirque-valley	2783	3664	3264	57.2	35.2	0.67 NE, 56
36	87.62	50.15	0.99±0.14	cirque-valley	2827	3624	3196	64.1	27.1	1.25 N, 0
37	87.60	50.15	0.38±0.05	cirque	2845	3485	3094	66.9	26.4	0.45 N, 11

In total, in the basin of the Aktru river 22 glaciers with total area of 28.70±3.20 km<sup>2</sup> are reconstructed, minimal altitude is 2255 m, maximal altitude is 3970 m, area weighted average ELA is 3093

Maashei river basin										
38	87.62	50.14	0.16±0.04	flat summit	3446	3626	3550	31.6	12.6	0.16 SW, 242
39	87.63	50.12	2.13±0.19	valley	2656	3909	3464	54.4	27.7	2.71 NW, 298
40	87.64	50.12	1.36±0.17	cirque	3068	3965	3607	50.2	30.2	1.82 S, 152

41		87.66	50.11	0.19±0.05	cirque-valley	3198	3792	3615	50.4	30.6	0.23	W, 259
42	Pravyi Maashei	87.65	50.10	3.20±0.25	valley	2578	3952	3352	68.7	27.8	4.01	W, 270
43		87.63	50.10	0.13±0.03	hanging	2991	3567	3415	56.5	33.1	0.16	NW, 321
44		87.66	50.09	0.11±0.04	hanging	3259	3946	3541	70.6	40.9	0.15	S, 197
45		87.67	50.09	0.33±0.05	slope	3252	3963	3716	75.4	39.7	0.50	SW, 197
46		87.66	50.08	5.21±0.34	valley	2646	3867	3172	69.9	23.4	6.27	NW, 304
47	Bolshoi Maashei	87.61	50.06	6.30±0.35	valley	2205	4107	<b>2858</b>	69.6	19.8	7.14	N, 17
48		87.59	50.07	2.15±0.19	valley	2602	4085	3253	67.8	33.1	2.93	NE, 28
49		87.57	50.08	0.32±0.06	valley	2660	3676	3169	55.2	35.8	0.42	N, 354
50		87.57	50.08	0.29±0.06	valley	2641	3676	3155	55.2	36.0	0.37	N, 349
51	Levyi Maashei	87.55	50.07	3.88±0.26	valley	2653	4110	3213	64.6	28.6	4.98	N, 23
52		87.54	50.08	0.28±0.06	cirque	2833	3382	3055	58.2	29.0	0.34	NE, 68
53		87.53	50.09	0.91±0.08	cirque	2879	3447	3078	55.2	21.1	1.02	E, 107
54		87.53	50.10	0.02±0.01	hanging	3258	3374	3344	48.8	30.6	0.03	S, 191
55		87.55	50.10	0.14±0.03	hanging	3113	3345	3211	42.7	23.9	0.16	W, 253
56		87.55	50.10	0.07±0.02	hanging	3094	3316	3204	53.4	28.5	0.09	E, 62
57		87.55	50.10	0.21±0.03	hanging	3101	3345	3224	47.6	25.2	0.24	NW, 304
58		87.54	50.10	0.04±0.02	hanging	3063	3223	3162	33.2	22.4	0.04	N, 6
M2		87.54	50.10	0.03±0.01	hanging	3080	3270	3189	53.3	30.6	0.03	NE, 45
59		87.53	50.10	0.12±0.03	hanging	3136	3373	3302	51.8	30.1	0.14	NE, 51
M3		87.53	50.10	0.05±0.02	hanging	2964	3314	3166	51.3	40.2	0.06	N, 0
60		87.53	50.12	0.03±0.01	hanging	2984	3242	3151	53.6	34.5	0.04	N, 343
61		87.52	50.11	0.23±0.04	hanging	3065	3514	3339	52.1	34.8	0.28	N, 11
62		87.51	50.12	0.60±0.09	cirque-valley	2814	3515	3070	56.9	29.6	0.73	NE, 0
63		87.50	50.12	0.65±0.08	cirque	2885	3519	3108	62.3	24.4	0.75	E, 68
64		87.53	50.14	0.20±0.04	cirque	2859	3251	3022	55.1	35.9	0.25	NE, 34
65		87.53	50.15	0.49±0.09	cirque	2655	3527	3077	59.1	33.6	0.64	N, 343
66		87.52	50.15	0.14±0.03	hanging	3019	3529	3298	55.0	42.1	0.19	N, 6
67		87.52	50.15	0.06±0.02	hanging	2943	3378	3216	65.0	40.7	0.08	N, 28
68		87.51	50.16	0.24±0.06	cirque	2788	3313	3017	52.3	28.5	0.29	NE, 34
69		87.51	50.14	0.87±0.09	valley	2741	3561	3083	61.0	27.6	1.04	NW, 332
70, 71		87.50	50.14	2.20±0.20	valley	2598	3661	3062	61.0	25.0	2.62	N, 354

72	87.48	50.14	0.89±0.16	cirque	2637	3418	3036	56.4	31.5	1.23	N, 17
73	87.47	50.15	0.09±0.04	hanging	2751	3220	2977	53.2	36.7	0.11	N, 0

In total, in the basin of the Maashei 37glaciers with total area of 34.32±3.32 km<sup>2</sup> are reconstructed, minimal altitude 2205 m, maximal altitude 4110 m, area weighted average ELA is 3037 m,

#### Shavly river basin

74	87.46	50.17	0.21±0.03	cirque	2964	3141	3033	42.2	16.0	0.22	N, 342
75	87.45	50.17	0.25±0.06	cirque	2675	3247	2927	66.5	30.9	0.31	N, 343
76	87.46	50.15	0.98±0.10	cirque-valley	2760	3418	3035	51.5	22.5	1.11	N,0
77-79	87.44	50.15	0.53±0.07	hanging	2672	3385	3136	58.3	35.3	0.68	N, 354
80	87.43	50.14	0.07±0.02	hanging	3029	3224	3133	45.5	28.7	0.08	N, 0
81, 82	87.43	50.15	0.15±0.04	hanging	2847	3209	3076	41.8	27.8	0.18	N, 6
83	87.48	50.13	0.07±0.03	hanging	3235	3667	3517	51.9	35.9	0.09	NW, 309
84	87.48	50.13	0.07±0.02	hanging	3106	3573	3409	55.3	39.0	0.09	W, 293
85	87.48	50.12	0.01±0.01	hanging	3440	3560	3495	43.5	37.7	0.01	SW, 208
86	87.51	50.10	2.25±0.25	cirque-valley	2652	3706	3113	71.4	29.0	3.16	N, 11
87	87.49	50.10	0.20±0.04	hanging	3047	3716	3452	70.4	43.0	0.29	NE, 34
88	87.48	50.10	0.20±0.03	hanging	3175	3664	3510	57.0	32.3	0.24	NE, 34
89	87.47	50.10	0.12±0.02	hanging	3298	3721	3491	57.8	34.7	0.15	NE, 17
90	87.47	50.10	0.20±0.05	hanging	2821	3714	3464	69.9	43.0	0.31	NW, 332
L41	87.46	50.10	0.01±0.01	hanging	3415	3600	3518	63.6	55.9	0.01	W,236
L42	87.47	50.10	0.01±0.01	hanging	3530	3626	3595	47.4	28.5	0.01	SW,236
91	87.47	50.10	0.10±0.02	hanging	3539	3721	3629	54.3	27.5	0.12	S,163
92	87.52	50.09	0.03±0.01	slope	3362	3447	3404	41.5	23.7	0.04	SW,259
93	87.52	50.08	0.11±0.02	hanging	3111	3336	3238	49.1	22.7	0.12	W,287
94	87.52	50.08	0.05±0.02	hanging	3213	3334	3261	36.0	21.6	0.05	S, 169
95	87.53	50.08	0.35±0.06	cirque	2941	3490	3246	52.3	27.8	0.41	W,276
96	87.52	50.07	0.95±0.11	cirque-valley	2692	3528	3033	68.2	28.9	1.17	NW,332
97, 98	87.50	50.07	0.78±0.12	hanging	2637	3798	3305	66.7	35.6	1.04	N, 354
99	87.49	50.07	0.17±0.04	hanging	2877	3530	3289	62.5	40.5	0.25	N,11
100	87.50	50.07	0.07±0.02	hanging	3536	3803	3686	43.7	32.8	0.08	W,253
101	87.50	50.06	0.01±0.01	hanging	3348	3510	3458	46.3	33.5	0.02	W,264
102	87.48	50.05	2.03±0.22	valley	2562	3489	2967	59.1	21.9	2.35	N,349

103	87.46	50.05	1.37±0.20	cirque	2472	3691	2948	68.5	30.7	1.87	N,349
104	87.44	50.05	2.78±0.23	valley	2357	3674	3050	66.6	28.2	3.41	N,23
105	87.43	50.05	0.04±0.01	hanging	2981	3202	3066	50.1	33.6	0.05	NE,56
106	87.42	50.06	0.68±0.16	cirque	2683	3411	2992	64.1	29.7	0.91	NE,51
107	87.41	50.06	0.03±0.01	hanging	3169	3254	3214	34.5	19.0	0.03	S,169
108	87.42	50.08	0.08±0.02	cirque	2874	3141	3005	52.6	26.6	0.10	N,343
109	87.42	50.07	0.87±0.12	valley	2512	3251	2966	59.1	19.4	0.99	N,34
110	87.41	50.06	0.08±0.02	hanging	2964	3251	3140	49.4	32.7	0.10	W,293
111	87.40	50.07	2.35±0.23	valley	2266	3642	3009	63.7	27.1	2.78	NE, 34
112	87.38	50.07	0.15±0.03	flat summit	3034	3435	3296	53.2	32.1	0.18	NE,84
113	87.38	50.08	0.06±0.02	hanging	3051	3356	3265	56.2	30.2	0.08	NE, 62
114	87.38	50.09	0.07±0.02	hanging	2920	3268	3134	62.6	36.0	0.09	N,23
115	87.37	50.07	0.48±0.06	cirque-valley	2771	3322	3003	51.5	26.8	0.56	NW,304
116	87.38	50.07	1.21±0.13	valley	2663	3609	3038	54.3	22.9	1.36	N,338
117	87.35	50.08	0.29±0.04	cirque	2992	3433	3218	66.7	36.0	0.36	NE,51

In total, in the basin of the Shavly river 42 glaciers are reconstructed with the total area of 20.51±2.74 km<sup>2</sup>, minimal altitude 2266 m, maximal altitude 3803 m, area weighted average ELA 3009 m

#### Yungur river basin

118	87.36	50.06	1.00±0.11	cirque-valley	2697	3472	3015	67.0	28.6	1.24	NW,338
119	87.36	50.06	0.15±0.03	hanging	2858	3433	3215	61.7	38.2	0.21	N,11
120	87.35	50.06	0.08±0.02	hanging	2889	3433	3244	59.9	34.3	0.11	NW,354
121	87.35	50.06	0.05±0.02	hanging	2906	3347	3222	56.5	34.3	0.06	N, 17
L79	87.37	50.05	0.10±0.02	cirque	2993	3139	3045	46.3	20.4	0.11	SE, 101
122	87.38	50.05	0.26±0.04	cirque	2925	3171	3053	40.5	24.4	0.29	SE, 169
123	87.39	50.05	0.38±0.05	cirque	2965	3336	3075	47.8	22.4	0.42	SW, 203
124	87.40	50.05	0.90±0.08	cirque-valley	2820	3393	3095	56.8	21.2	0.99	W, 293
125	87.43	50.03	0.96±0.08	cirque-valley	2863	3322	3068	64.5	18.9	1.05	NW, 281
126	87.42	50.03	0.09±0.02	hanging	3060	3350	3213	58.9	38.0	0.12	NW, 338
127	87.40	49.99	0.31±0.05	cirque	2725	3220	2955	58.8	27.5	0.36	N, 6
128	87.39	49.99	0.03±0.01	hanging	2997	3129	3080	48.4	26.5	0.03	N, 6
129	87.38	49.97	0.05±0.02	hanging	3012	3223	3151	56.7	23.4	0.06	NE, 23
130	87.37	49.98	0.20±0.03	hanging	2660	3356	3085	62.1	36.8	0.26	N, 354

131	87.34	49.97	0.03±0.01	hanging	2947	3233	3126	65.3	41.8	0.05	N, 349
132	87.33	49.97	0.07±0.02	hanging	2924	3270	3170	58.6	31.7	0.08	N, 0
133	87.33	49.97	0.04±0.01	hanging	2960	3369	3202	54.4	43.5	0.05	N, 0
134	87.32	49.97	0.19±0.04	cirque	2829	3222	2967	65.6	42.4	0.28	N, 354
135	87.31	49.97	0.25±0.06	hanging	2725	3253	2977	58.8	32.0	0.31	N, 0
136	87.29	49.97	0.45±0.07	cirque-valley	2794	3248	3048	54.5	22.4	0.50	N, 338
137	87.28	49.96	0.03±0.01	hanging	2980	3157	3085	46.3	29.4	0.03	N, 343
138	87.27	49.96	0.03±0.01	hanging	3057	3209	3146	45.7	34.7	0.03	NE, 28
139	87.26	49.96	0.03±0.01	hanging	2922	3199	3126	63.6	41.7	0.04	NE, 17
140	87.25	49.96	0.07±0.02	hanging	2986	3404	3241	63.5	41.0	0.10	N, 354
141	87.24	49.96	0.15±0.04	cirque	2664	3293	2978	51.9	35.4	0.18	N, 338
142	87.23	49.96	0.19±0.06	cirque	2752	3378	3010	61.2	33.6	0.24	N, 354
143	87.22	49.96	0.74±0.11	valley	2664	3346	2937	56.2	24.8	0.85	N, 349
144	87.21	49.96	0.42±0.07	valley	2581	3290	2857	75.7	28.5	0.51	N, 11
145	87.20	49.96	0.10±0.02	hanging	3042	3278	3177	60.4	34.7	0.12	E, 68
146	87.20	49.97	0.08±0.02	hanging	2839	3237	3077	47.4	36.8	0.10	N, 17
147,											
148	87.18	49.96	0.15±0.04	hanging	2823	3308	3055	65.1	36.3	0.20	NE, 45
149,											
150	87.17	49.96	0.13±0.03	hanging	2980	3525	3298	75.7	50.5	0.24	E, 34
151	87.17	49.96	0.07±0.02	hanging	3035	3519	3329	61.8	38.4	0.09	N, 17
152	87.17	49.97	0.03±0.02	hanging	2945	3348	3109	70.8	54.4	0.06	NE, 51
153	87.15	49.98	0.05±0.01	hanging	2986	3153	3086	40.5	24.8	0.05	N, 354
154	87.15	49.98	0.05±0.02	hanging	2980	3247	3116	56.5	30.4	0.06	N, 0
155,											
156	87.15	49.98	0.07±0.02	hanging	2992	3262	3158	56.2	37.7	0.09	N, 11
157	87.17	49.94	0.03±0.01	hanging	3096	3239	3201	42.2	23.9	0.03	N, 349
158	87.11	49.91	0.01±0.01	hanging	3118	3248	3181	45.4	38.7	0.02	N, 354
159	87.11	49.91	0.01±0.01	hanging	3131	3338	3260	53.8	36.5	0.02	N, 354
160	87.10	49.91	0.10±0.02	hanging	2913	3322	3089	54.7	37.0	0.12	N, 11

161	87.10	49.92	0.03±0.01	cirque	3107	3216	3166	35.9	23.7	0.03	N, 354
162	87.07	49.92	0.96±0.10	cirque	2754	3431	3130	62.4	32.8	1.25	N, 17
163	87.06	49.93	0.03±0.01	hanging	2988	3172	3111	64.2	25.7	0.04	N, 6
164	87.05	49.93	0.21±0.05	cirque	2708	3224	2895	62.7	28.7	0.26	N, 17
				cirque-							
165	87.05	49.93	0.06±0.02	hanging	3134	3366	3237	55.8	35.9	0.08	SE, 118
166,											
167,											
168	87.05	49.94	0.54±0.08	cirque	2715	3409	2955	62.7	28.0	0.66	NE, 23
169	87.03	49.94	0.57±0.06	cirque-valley	2911	3338	3121	53.1	22.7	0.63	N, 0
170	87.02	49.94	0.19±0.03	cirque	2812	3256	3039	66.5	30.2	0.24	N, 0
171	87.01	49.95	0.02±0.01	hanging	3159	3306	3243	54.4	38.3	0.03	N, 11
				cirque-							
172	87.01	49.95	0.03±0.01	hanging	3072	3250	3198	56.4	34.9	0.04	N, 11

In total, in the basin of the Yungur river 51 glaciers are reconstructed with the total area of 10.75±1.76 km<sup>2</sup>, minimal altitude 2581 m , maximal altitude 3525 m, area weighted average ELA 3050 m,

#### Karagem river basin

L172	87.11	49.91	0.05±0.01	cirque-valley	3031	3148	3074	38,4	19.4	0.05	E, 84
173	87.21	49.93	0.12±0.02	cirque	2886	3344	3095	74,4	43.7	0.20	NE, 17
M4	87.21	49.94	0.08±0.02	cirque	2899	3116	2988	50,6	27.0	0.09	E, 90
174	87.25	49.94	0.03±0.02	hanging	3138	3295	3188	46,7	24.9	0.03	SE, 163
175	87.24	49.94	0.04±0.02	hanging	3127	3295	3193	48,8	24.6	0.05	NE, 23
176	87.23	49.95	0.74±0.10	cirque-valley	2795	3410	3051	76,5	26.0	0.88	E, 91
177	87.28	49.96	0.13±0.03	cirque	2918	3184	3020	66,5	27.3	0.15	E, 39
178	87.30	49.96	0.17±0.03	cirque	2987	3158	3072	43,1	16.9	0.18	E, 141
179	87.32	49.94	0.17±0.04	cirque	2869	3416	3065	69,0	33.3	0.23	NE, 45
180	87.33	49.96	0.33±0.04	cirque-valley	2943	3308	3131	45,7	21.2	0.36	NE, 34
181	87.33	49.96	0.62±0.07	valley	2948	3425	3205	54,5	17.6	0.66	SE, 152
182	87.34	49.97	0.03±0.01	cirque	2786	2893	2832	31,5	21.5	0.03	SE, 135
183	87.42	50.00	0.27±0.04	cirque-valley	2891	3230	3032	55,6	24.4	0.31	E, 51
184	87.42	50.01	0.17±0.04	cirque	2873	3265	2976	58,1	27.5	0.19	NE, 56
185	87.42	50.02	0.36±0.06	cirque	2898	3297	3142	45,5	24.3	0.40	S, 163

186	87.43	50.02	0.99±0.11	cirque-valley	2868	3458	3104	52,5	18.7	1.07 SE, 129
187	87.44	50.03	0.75±0.08	cirque-valley	2862	3524	3111	60,6	17.7	0.80 SE, 152
188	87.45	50.03	0.73±0.12	cirque-valley	2874	3496	3235	57,1	26.5	0.83 S, 191
189,										
190	87.47	50.03	1.53±0.15	cirque-valley	2775	3388	2982	56,3	18.7	1.67 SE, 129
191	87.49	50.04	0.73±0.09	valley	2818	3486	3118	53,8	24.9	0.84 SE, 96
192	87.52	50.02	0.02±0.01	hanging	3161	3280	3224	51,0	36.0	0.02 N, 28
193	87.52	50.02	0.06±0.02	hanging	3040	3318	3187	57.5	38.3	0.08 NW, 309
194	87.51	49.99	0.05±0.01	hanging	3132	3362	3264	54.5	38.0	0.06 N, 349
195	87.51	50.00	0.14±0.03	cirque	2878	3173	2980	51.5	25.4	0.15 NE, 51
196	87.52	50.01	0.25±0.04	cirque	2865	3140	2980	49.0	21.4	0.27 E, 73
197	87.57	49.99	0.05±0.02	hanging	3007	3250	3178	67.3	34.0	0.07 N, 0
L266	87.54	50.01	0.12±0.03	cirque-valley	2903	3181	3019	48.4	25.4	0.14 E, 68
198	87.53	50.02	0.09±0.02	cirque	2815	3070	2919	47.1	32.5	0.11 E, 96
199	87.50	50.04	1.02±0.09	valley	2779	3312	3033	63.0	22.1	1.14 SE, 101
200	87.51	50.06	1.29±0.14	valley	2763	3478	3105	60.0	20.2	1.43 SE, 118
201	87.51	50.07	0.18±0.04	slope	3356	3803	3594	54.1	33.5	0.23 E, 101
202	87.52	50.06	0.87±0.08	valley	2915	3360	3095	54.1	16.1	0.93 SE, 118
203	87.54	50.06	2.49±0.24	valley	2809	3861	3238	54.7	18.1	2.88 SW, 186
204	87.53	50.07	0.04±0.01	slope	3410	3490	3461	45.4	20.0	0.05 S, 163
205	87.55	50.05	0.85±0.12	cirque-valley	2955	3394	3124	52.9	19.8	0.94 E, 84
206	87.56	50.06	0.67±0.22	cirque	3051	4113	3546	56.7	33.4	1.226 SW, 219
207	87.58	50.05	0.74±0.16	cirque-valley	3007	3959	3573	55.7	27.6	0.86 SW, 248
208	87.58	50.03	0.06±0.02	hanging	2978	3381	3279	52.7	34.3	0.07 NW, 315
209	87.59	50.03	0.17±0.03	cirque	2996	3233	3087	49.0	21.6	0.18 E, 101
210 Bolshoi Abyl-Oyuk	87.60	50.04	4.55±0.31	valley	2538	3892	3345	55.2	20.0	5.11 SE, 129
211	87.62	50.04	0.14±0.02	cirque	2845	3137	3006	51.6	29.0	0.16 E, 84
212	87.62	50.06	0.05±0.03	valley	3579	3674	3633	40.6	18.2	0.06 SE, 163
212	87.61	50.06	2.54±0.22	valley	2482	3895	3304	60.1	28.4	2.98 SE, 113
213 Pravyi Karagemskiyi	87.63	50.06	0.82±0.09	valley	2739	3905	3499	49.0	29.6	0.95 SE, 129
214, Levyi Karagemskiyi										
215	87.66	50.06	6.11±0.46	valley	2432	3861	3310	55.6	20.8	7.21 SW, 207



216	87.69	50.05	0.02±0.01 slope	3579	3639	3620	36.7	24.5	0.02 SW, 219
217	87.69	50.04	0.06±0.02 hanging	3526	3685	3615	39.6	27.3	0.07 W, 298
218	87.69	50.04	0.20±0.04 hanging	3130	3670	3479	56.2	37.1	0.26 W, 287
219	87.68	50.04	0.16±0.03 hanging	2994	3613	3372	56.8	37.5	0.21 W, 293
220	87.69	50.04	0.03±0.02 hanging	3448	3613	3542	38.7	27.0	0.03 S, 191
221	87.70	50.02	0.10±0.04 hanging	3161	3688	3454	51.0	33.5	0.12 NW, 309
222	87.69	50.02	0.22±0.04 hanging cirque-	2928	3685	3450	60.7	31.6	0.27 NW, 298
223	87.68	50.02	0.09±0.02 hanging	3003	3183	3123	44.9	19.4	0.10 NW, 309
224	87.70	50.02	0.17±0.03 hanging	3307	3688	3538	58.2	37.3	0.22 S, 180

In total, in the basin of the Karagem river 54 glaciers are reconstructed with the total area of 32,45±3,80 km<sup>2</sup>, minimal altitude 2432 m , maximal altitude 4113 m, area weighted average ELA 3111 m.