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*Supplement of*

## **Development of proglacial lakes and evaluation of related outburst susceptibility at the Adygin ice-debris complex, northern Tien Shan**

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## Supplements

Table S1. Morphometry of lakes at Adygine site. Lakes 3-9 are the most dynamic ones situated near the glacier terminus. A hyphen is used when a measurement was not carried out for the individual lake. Asterisk signifies a value obtained from a satellite image.

	<b>Lake</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
<b>Area (m<sup>2</sup>)</b>	2005	-	32 700	-	-	-	-	-	0	0
	2007	3 390	-	5 710	3 230	3 230	3 350	1 860	0	0
	2008	-	31 900	7 030	3 680	1 580	3 410	1 910	0	0
	2012	-	-	8 800	5 100	740	3 800	1 280	1 130	0
	2013	-	-	9 870	4 870	0	3 405	0	558	0
	2015	-	31 700	14 880	4 540	0	0	0	0	1 540
	2017	2 700*	31 900*	16 020	4 200*	0	2 700*	0	0	1 150*
<b>Length (m)</b>	2007	109	-	161	90	120	106	85	0	0
	2008	-	364	166	92	94	113	85	0	0
	2012	-	-	168	105	54	113	65	60	0
	2013	-	-	174	106	0	113	0	67	0
	2015	-	390	198	100	0	0	0	0	70
	2017	110*	390*	200	95*	0	90*	0	0	50*
<b>Max depth (m)</b>	2005	-	21.6	-	-	-	-	-	0	0
	2007	4.4	-	3.8	-	-	-	-	0	0
	2008	-	22.2	-	-	-	-	-	0	0
	2012	-	-	10.3	2.4	-	3	0.5	1.8	0
	2015	-	21.3	12.3	2.4	0	0	0	0	-
	2017	-	-	14	-	0	-	0	0	-
<b>Volume (m<sup>3</sup>)</b>	2005	-	208 000	-	-	-	-	-	0	0
	2007	6 290	-	7 800	-	-	-	-	0	0
	2008	-	206 000	-	-	-	-	-	0	0
	2012	-	-	29 300	3 900	-	3 800	500	900	0
	2015	-	194 000	72 000	3 630	0	0	0	0	-
	2017	-	-	106 000	-	0	-	0	0	-

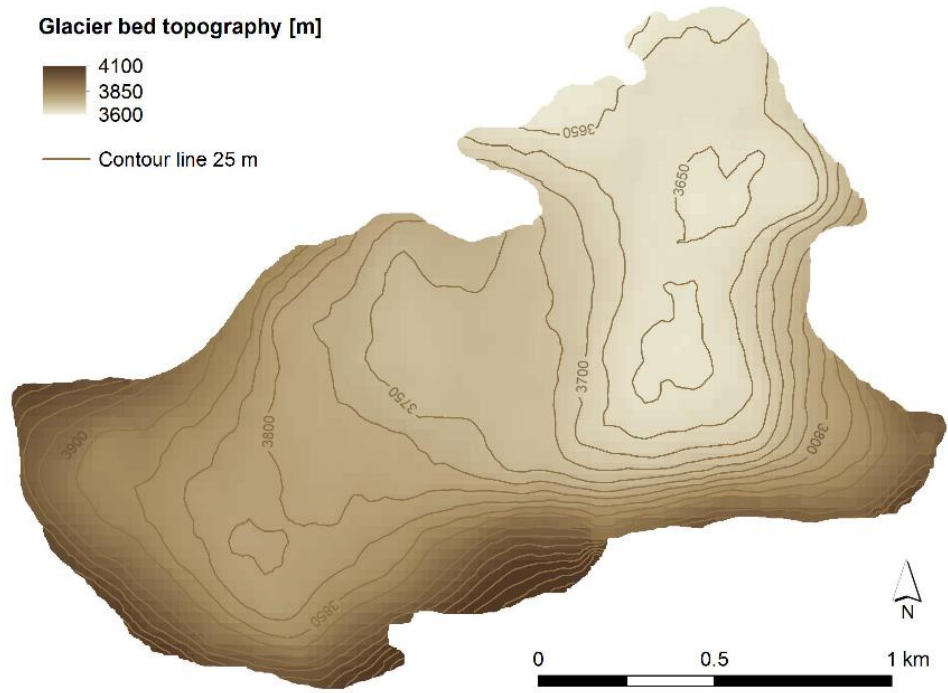


Figure S2. Adyine glacier bed topography derived from the GPR survey in 2012.