Supplementary information for

Projecting the Impact of Climate Change on Runoff in the Tarim River Simulated by the Soil and Water Assessment Tool Glacier Model

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Table S1. Model parameter set in the SWAT-Glacier model in the headwaters of the Tarim River

	Kaidu	Kumaric	Toxkan	Yarkant	Tizinafu	Kalakash	Yulongkash
	R	R	R.	R.	R.	R	R
r__CN2.mgt	-0.23		-0.3	0.28	-0.23	-0.03	-0.01
r__sol_awc.sol	0.15	0.08	-0.1		0.07	-0.24	0.22
r__sol_k.sol	-0.06	-0.08	0.3	-0.12	0.19	-0.01	-0.16
v__ALPHA_BF.gw	0.11	0.97	0.98	0.47	0.11	0.59	0.99
v__Ch_K1.sub	0.04	0.01	63.1	169.77	205.46	211.41	67.91
v__Ch_K2.rte	440.54	0.21	421.37	54.42	20.26	36.86	22.88
v__GLA_TIMP.bsn	0.19	0.07	0.82	0.02	0.9	0.68	0.01
v__gmfmn.bsn	4.1	1.34	2.6	3.48	0.26	4.55	1.88
v__gmfmx.bsn	4.51	4	4.29	4.17	4.25	8.64	4.11
v__gmtmp.bsn	2.07	-3.84	1.59	-1.16	-3.38	-4.99	-1.09
v__gw_delay.gw	0.88	0.02	0.18	0.02	0.12	0.1	0.02
v__Plaps.sub	200	198.8	169.4	107.08	158.02	143.97	93.74
v__Revapmn.gw	246.08	340.88	13.05	207.72	144.56	277.31	104.15
v__SFTMP.bsn	-3.82	-4.64	-2.84	-3.3	0.32	1.88	2.69
v__SMFMN.bsn	1.46	5.68	2.94	5.24	2.43	2.54	2.67
v__SMFMX.bsn	9.41	5.62	9.27	4.01	6.16	6.73	4.04
v__SMTMP.bsn	1.46	-1.39	-4.89	0.75	2.16	-0.37	-1.44
v__SNOCOVMX.bsn	188.78	185.04	0.71	498.53	499.14	31.15	498.89
v__surlag.bsn	22.09	0.22	2.41	0.03	23.68	0.13	0.7
v__TIMP.bsn	0.63	0.04	0.15	1	0.83	0.98	0.03
v__Tlaps.sub	-7.85	-9.57	-9.32	-7.32	-8.06	-7.72	-6.28