Tab.1 Some soil parameters

Parameter / *Soil class*	*Maximum Infiltration*	*Porosity*			*Pore Size Distribution*			*Bubbling Pressure*			*Field Capacity*			*Wilting Point*		
Chernozem	3.0e-5	.48	.46	.46	.13	.12	.12	.34	.26	.26	.36	.31	.31	.21	.23	.23
Brown calcic soil	2.0e-4	.46	.48	.48	.12	.13	.13	.26	.34	.34	.31	.36	.36	.23	.23	.23
Light chestnut coloured soil	1.0e-5	.39	.39	.39	.12	.12	.12	.29	.29	.29	.27	.27	.27	.17	.17	.17
Dark chestnut soil	1.0e-5	.39	.46	.46	.12	.12	.12	.29	.26	.26	.27	.31	.31	.17	.23	.23
Chestnut soil cultivation	1.0e-5	.46	.46	.46	.12	.12	.12	.26	.26	.26	.31	.31	.31	.23	.23	.23
Grey-cinnamonic soil	3.0e-5	.48	.49	.49	.13	.10	.10	.34	.34	.34	.36	.37	.37	.21	.25	.25
Calcareous Grey-cinnamonic soil	1.0e-5	.46	.48	.48	.12	.13	.13	.26	.34	.34	.31	.36	.36	.23	.21	.21
Alpine meadow soil	1.0e-5	.47	.47	.47	.08	.08	.08	.37	.37	.37	.36	.36	.36	.27	.27	.27
Subalpine meadow soil	1.0e-5	.46	.46	.46	.12	.12	.12	.26	.26	.26	.31	.31	.31	.23	.23	.23

Tab.2 Some vegetation parameters

Vegetation class / Parameter	Farmland	Water	Grassland	Bare land	Evergreen Needleleaf
Overstory Present	*FALSE*	*FALSE*	*FALSE*	*FALSE*	*TRUE*
Understory Present	*TRUE*	*FALSE*	*TRUE*	*FALSE*	*TRUE*
Max Snow Int Capacity					*0.04*
Root Zone Depths	*0.1 0.5 0.5*	*0.0 0.0 0.0*	*0.1 0.45 0.4*	*0.0 0.0 0.0*	*0.1 0.45 0.5*
Overstory Root Fraction					*0.2 0.4 0.4*
Understory Root Fraction	*0.2 0.7 0.1*	*0.0 0.0 0.0*	*0.4 0.6 0.0*	*0.0 0.0 0.0*	*0.4 0.6 0.0*
Maximum Resistance	*600*		*600*		*5000. 3000.*
Minimum Resistance	*120*		*200*		*650 200.*
Overstory LAI(Feb.)(%)					*90*
Understory LAI(Feb.)(%)	*0*		*0*		*0*
Overstory Alb (Feb.)					*0.2*
Understory Alb(Feb.)	*0.12*		*0.12*		*0.12*
Height	*0.8*		*0.3*		*20*

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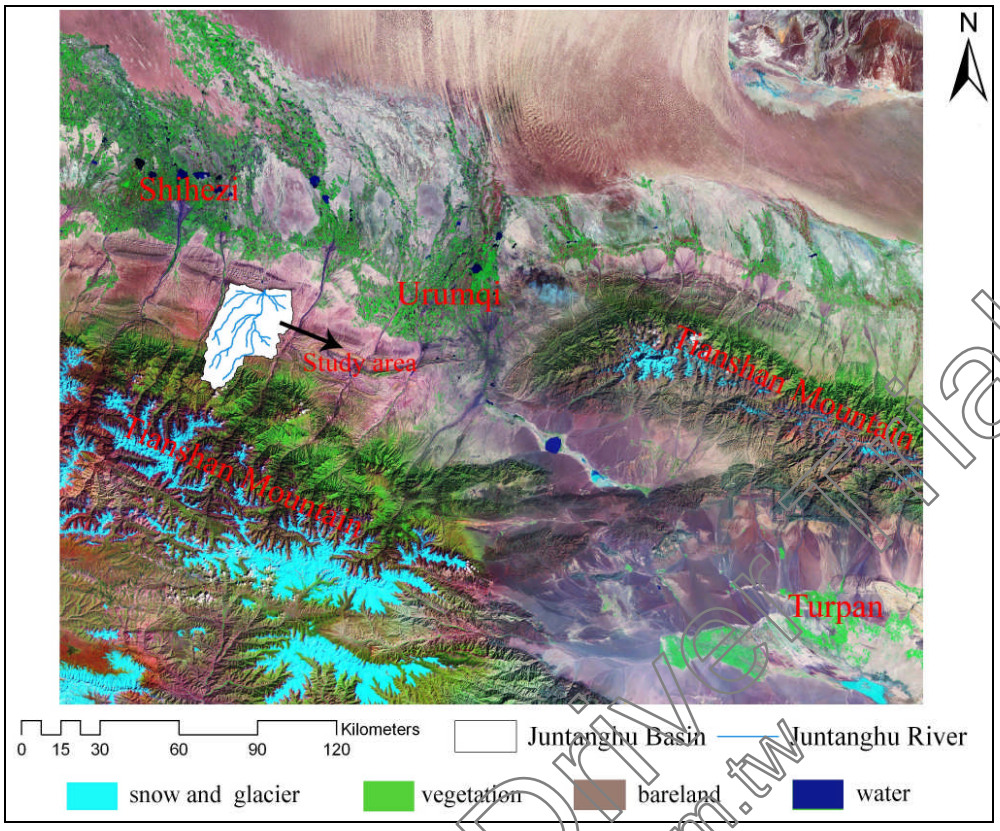
Fig.1 The Location of Juntanghu basin



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