

Supplemental material for

“A First-order Method to Identify Potentially Dangerous Glacial Lakes in a Region of Southeastern Tibetan Plateau,” by Weicai Wang, Tandong Yao, Yang Gao, Xiaoxin Yang, and Dambaru Ballab Kattel; published in *Mountain Research and Development* (MRD) vol 31 no 2 (May 2011).

APPENDIX S1 Potentially very highly dangerous glacial lakes ($P > 0.8$) identified in our study area and their corresponding parameters (8 glacial lakes). Lake area uncertainties are obtained with a shoreline length multiplied by half a cell resolution of the ALOS image. Also shown are the characteristics of 6 drained glacial lakes obtained from topographic maps and corresponding DEMs.

Lake ID	Latitude	Longitude	Altitude/m	Lake area /km ²	Mother glacier area /km ²	Distance to mother glacier/m	Slope between lake and glacier/°	Mean slope of moraine dam/°	Mother glacier snout steepness/°	Total value (P)
GL04	29°53'04"	96°25'01"	5167	0.203±0.009	7.45	0	27.6	15.4	27.6	0.951
GL11	29°47'53"	96°30'06"	5074	0.026±0.003	1.28	0	32.2	10.5	32.2	0.885
GL20	29°43' 49"	96°37'15"	5240	0.094±0.009	0.86	0	20.1	19.5	20.1	0.800
GL23	29°41'53"	96°37'08"	5136	0.089±0.008	0.75	150	17.9	25.0	27.4	0.843
GL29	29°33'37"	96°37'49"	4891	0.137±0.008	1.78	315	36.1	14.2	31.4	0.836
GL63	29°43' 13"	96°29' 52"	5210	0.096±0.007	2.72	0	24.4	22.8	24.4	0.939
GL71	29°47'50"	96°27'20"	4999	0.051±0.004	1.28	130	18.7	35.7	32.2	0.860
GL76	29°49' 21"	96°21' 10"	4917	1.023±0.024	1.11	140	25.6	26.4	31.2	0.915
Zari	90°48'30"	28°22'50"	4410	0.213±0.005	1.86	0	20.1	19.5	20.1	0.818
Zirema	86°03'54"	28°04'36"	4640	0.494±0.012	1.40	20	17.5	18.6	14.0	0.756
Jinco	87°38'29"	28°11'39"	5350	0.512±0.015	1.37	114	18.3	22.6	27.9	0.860
Guangxie	94°30'00"	29°30'00"	3800	0.522±0.015	1.83	0	20.7	23.4	24.7	0.866
Unknown 1	96°33'25"	29°45'19"	5026	0.215±0.005	1.14	100	15.5	15.8	26.3	0.756
Unknown 2	96°27'56"	29°45'12"	5059	0.176±0.004	1.90	0	14.3	15.3	14.3	0.701