



Supplement of

Assessing national exposure to and impact of glacial lake outburst floods considering uncertainty under data sparsity

Huili Chen et al.

Correspondence to: Qiuhua Liang (q.liang@lboro.ac.uk)

The copyright of individual parts of the supplement might differ from the article licence.

Table S1 Hydropower plants potentially impacted by GLOFs from the 21 identified dangerous glacial lakes

ID	Project	River	Capacity (Megawatt MW)	License type	Commission /issue year	Corrected longitude	Corrected latitude	Lake(s) that may pose risks
1	Madhya Marsyangdi	Marsyangdi	70	Operation	2000	84.4998	27.9322	Thulagi
2	Marsyangdi	Marsyangdi	69	Operation	1994	84.5407	27.8765	Thulagi
3	Upper Marsyangdi A	Marsyangdi	50	Operation	2011	84.3624	28.2828	Thulagi
4	Devighat	Trishuli	14.1	Operation	1994	85.1344	27.8874	Anonymous 12
5	Trishuli	Trishuli	24	Operation	1994	85.1462	27.9207	Anonymous 12
6	Lower Khare	Khare	11	Generation	2012	86.2121	27.7560	Tsho Rolpa
7	Langtang Khola Small Hydropower Project	Langtang	10	Generation	2015	85.3535	28.1550	Anonymous 12
8	Marsyangdi Besi	Marsyangdi	50	Generation	2017	84.3809	28.2329	Thulagi
9	Tamakoshi V	Tama Koshi	87	Generation	2017	86.2137	27.7897	Tsho Rolpa
10	Upper Tamakoshi HPP	Tama Koshi	456	Generation	2010	86.2217	27.8796	Tsho Rolpa
11	Middle Tamor	Tamor	54	Generation	2017	87.6851	27.4077	Anonymous 1, Anonymous 2
12	Upper Tamor	Tamor	285	Generation	2018	87.7349	27.4737	Anonymous 1, Anonymous 2, Anonymous 3
13	Super Trishuli	Trishuli	100	Generation	2017	84.6421	27.8609	Thulagi
14	Trishuli Galchhi	Trishuli	75	Generation	2016	85.0195	27.8284	Anonymous 12
15	Upper Trishuli 3A	Trishuli	60	Generation	2010	85.2000	28.0457	Anonymous 12
16	Upper Trishuli 3B	Trishuli	37	Generation	2013	85.1850	28.0046	Anonymous 12
17	Upper Trishuli-1	Trishuli	216	Generation	2017	85.2611	28.0964	Anonymous 12
18	Arun 3	Arun	900	Survey	2008	87.1665	27.3767	Lower Barun
19	Upper Barunkhola HEP	Barun	55	Survey	2017	87.2775	27.7259	Anonymous 9, Lower Barun
20	Lower Barun Khola HPP	Barun Khola	132	Survey	2014	87.3307	27.6996	Anonymous 9, Lower Barun
21	Chujung Khola HEP	Chujung	48	Survey	2018	87.4768	27.7561	Anonymous 4, Anonymous 5
22	Dana Khola Hydropower Project	Dana Khola	19	Survey	2017	84.3779	28.5156	Thulagi
23	Dudhkoshi-6 HEP	Dudh Koshi	83	Survey	2015	86.7139	27.6829	Imja Tsho, Lumding
24	Dudhkoshi 10 HEP	Dudh koshi	75	Survey	2017	86.7205	27.7726	Imja Tsho
25	Dudhkoshi-9 HPP	Dudh koshi	111	Survey	2016	86.7116	27.7256	Imja Tsho
26	Surke Dudhkoshi HEP	Dudh Koshi	350	Survey	2017	86.6810	27.5652	Imja Tsho, Lumding
27	Ghunsa Khola HPP	Ghunsa khola	155.82	Survey	2017	87.8884	27.6181	Anonymous 2, Anonymous 3
28	Ghunsa Khola HPP	Ghunsa Khola	71.5	Survey	2016	87.8314	27.5504	Anonymous 2, Anonymous 3
29	Hongu Khola HPP	Hongu Khola	21.87	Survey	2016	86.8950	27.5567	Anonymous 7, Hongu 1, Anonymous 8, Hongu 2, Chamlang, Anonymous 10

30	Hongu Khola I HEP	Hongu Khola	18.64	Survey	2017	86.7854	27.4821	Anonymous 7, Hongu 1, Anonymous 8, Hongu 2, Chamlang, Anonymous 10
31	Middle Hongu Khola B HPP	Hongu Khola	22.9	Survey	2017	86.8298	27.5014	Anonymous 7, Hongu 1, Anonymous 8, Hongu 2, Chamlang, Anonymous 10
32	Middle Hongukhola A Hydropower Project	Hongu Khola	22	Survey	2017	86.8781	27.5237	Anonymous 7, Hongu 1, Anonymous 8, Hongu 2, Chamlang, Anonymous 10
33	Super Inkhu Khola	Inkhu	22.12	Survey	2017	86.7935	27.6129	Anonymous 11
34	Upper Inkhu Khola HEP	Inkhu	24.22	Survey	2017	86.7845	27.5847	Anonymous 11
35	Lower Isuwa Khola HPP	Isuwa Khola	37.7	Survey	2017	87.2503	27.5583	Lower Barun
36	Lantang Khola Reservoir Hydropower Project	Langtang	310	Survey	2016	85.4406	28.1801	Anonymous 12
37	Mathillo Langtang HEP	Langtang	24.35	Survey	2017	85.5378	28.2097	Anonymous 12
38	Luja Khola HPP	Luja Khola	24.8	Survey	2017	86.6862	27.6735	Lumding
39	Lower Nyadi HPP	Nyadi	10.5	Survey	2017	84.4006	28.3122	Thulagi
40	Rolwaling Khola	Rolwaling	22	Survey	2017	86.2505	27.8900	Tsho Rolpa
41	Rolwaling Khola HPP	Rolwaling	88	Survey	N/A	86.2937	27.9045	Tsho Rolpa
42	Ghunsa-Tamor HPP	Tamor	43	Survey	2017	87.7979	27.5442	Anonymous 1, Anonymous 6
43	Super Tamor	Tamor	155	Survey	2016	87.8016	27.6088	Anonymous 1, Anonymous 6
44	Tamor Khola-5 HEP	Tamor	40	Survey	2017	87.7984	27.5205	Anonymous 1, Anonymous 2, Anonymous 3, Anonymous 6
45	Tamor Mewa	Tamor	128	Survey	2013	87.6236	27.3711	Anonymous 1, Anonymous 2
46	Upper Tamor A HPP	Tamor	72	Survey	2017	87.7744	27.6826	Anonymous 1
47	Upper Tamor HEP	Tamor	32.5	Survey	2017	87.8000	27.5633	Anonymous 1, Anonymous 6
48	Upper Trishuli-I Cascade HEP	Trishuli Ganga	24.6	Survey	2018	85.2084	28.0724	Anonymous 12
49	Trishuli Khola	Trishuli Khola	4.409	Survey	2017	85.2915	28.1224	Anonymous 12