





2 hours 30 minutes

Status and River Level Trends:

Thursday, August 01, 2019

Issued at: 10:00 AM

150 minutes

33 km

Glacier Lake Outbrust Flood (GLOF) Early Warning System

	Glacier Lake Outbrust Flood (GLOF) Early Warning System													
	Punatshang Chhu Sub Basin													
SI Nos.	River Basin Number	Basin Name	Name of River	Station Name	Highest Water Level Recorded	Alert Water Level	Alerm Water Level	Water Level (m) recorded at 9 AM Yesterday	Water Level(m) recorded at 9 AM Today	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement			
1				Luggay Tsho		7.80	10.00	6.67	6.68	0.01	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna- Wangdue Valley			
2	Basin II Pi			Thorthormi Tsho		7.50	5.00	5.82	5.82	0.00				
3			Pho Chhu	Rapstreng Tsho		7.40	5.00	6.33	6.32	-0.01				
4				Bay Tsho		7.40	5.00	6.54	6.47	-0.07				
5		Punatshang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!				
6	Dusin ii	runatshang Chilu		Tarina Wachey		8.50	10.50	7.00	6.92	-0.08	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,			
7				Dangsa		5.50	7.00	4.93	4.86	-0.07	Khuruthang) Puna-Wangdue Valley and Downstream			
8				Taksemakhang		7.50	8.50	5.95	6.01	0.06				
9			Mo Chhu	Mo Chhu Tashithang		9.00	10.50	7.20	7.51	0.31	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream			
10							Yebesa		5.00	7.00	2.31	2.47	0.16	

Approximate Lead Time for Evacuation after the detection of flood at Four lake Sensor te Lead Time for Evacuation after the detection of Flood at the Dangsa Sensor Approx.
Distance from Sensor (Rapstreng Tsho)
2.8 km
4.1 km
10.0 km Approx. Distance from Sensor (Bay Tsho) Approx. Distance from Sensor (Luggey Tsho) Approx. Tme available for Evacuation Name of Place Downstream Name of Place Downstream Approx. Distance from Sensor (Thorthormi Tsho) Thanza Tenchey Tshojo Lhedi 1.5 km 2.9 km 8.1 km 16.7 km 3.3 km 4.6 km 10.5 km 18.5 km 6.7 km 8.2 km 13.8 km 21.8 km 5.8 km 12.0 km 20 km 24 km 30 minutes 55 minutes 90 minutes 120 minutes 30 minutes 55 minutes 1 hours 30 minutes 2 hours Wolathang Samdingkha Punakha Dzong Khuruthang Town 100 km 5-7 hours 30.5 km 145 minutes 2 hours 25 minutes 100 km 100 km 100 km Bajo Town

NOTE: The above distance were Calculated from basic tools in the Google Earth Map, thus diastance were approximate only.

Glacier Lake Outbrust Flood (GLOF) & Rainstorm Flood Early Warning System.

Chamkhar Chhu and Mangdue Chhu Sub Basin

Chamki	Chamkhar Chnu and Mangdue Chnu Sub Basin														
SI Nos.	River Basin Number	Basin Name	Name of River	Station Name	Highest Water Level Recorded (m)	Alert Water Level (m)	Alerm Water Level (m)	Water Level (m) recorded at 9 AM Yesterday		Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement				
1				Tshampa		5.00	6.50	4.58	4.64	0.06					
2			Chamkhar Chhu	Khagthang		5.50	6.00	5.13	5.12	-0.01	Chokortoe Pry School, Kurjey Village, Wangdicholing, Chamkhar Town, Gangrithng Pry School, Gyelkhar Village and Downstream settlement under Zhemgang.				
3	Basin III	Manas		Kurjey	5.72	3.30	5.00	2.74	2.72	-0.02	annes, e, annes				
4			Mangdue Chhu	Jongthang		5.90	7.00	NR	NR	#VALUE!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa				
5	ı	l'					Mangaue Chnu	Bjizam	5.52	4.20	5.50	3.31	3.35	0.04	and Zhemgang

Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin							Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin							
Approximate Lead Time for Evacuation after the detection of Flood at the Tshampa AWLS						Approximate Lead Time for Evacuation after the detection of Flood at the Jongthang AWLS								
SI Nos	Name of Place Downstream	Approx.Distance from the Tshampa AWLS	Approx. Cumlative Distance from Tshampa AWLS	Elevation	Approx. Lead Time	SI Nos	Name of Place Downstream	Approx.Distance from the Tshampa AWLS	Approx. Cumlative Distance from Tshampa AWLS	Elevation	Approx. Lead Time			
1	Khagthang	20.3 km	20.3 km	3704 m	27 minutes	1	Bjizam	18.5 km	18.5 km	2223 m	34 minutes			
2	Chorkhor Toe PS	4.5 km	24.8 km	2904 m	34 minutes	2	Dam Site	7.8 km	26.3 km	1848 m	50 minutes			
3	Kurjey	12.4 km	37.2 km	2771 m	60 minutes	3	Power Plant	20.4 km	46.7 km	1024 m	88 minutes			
4	Wangdicholling	5.7 km	42.9 km	2600 m	79 minutes									
5	Bumthang	1 km	43.9 km	2562 m	83 minutes									
6	Gangrithang PS	0.3km	44.2 km	2552 m	84 minutes									
7	Gvelkhar	1.7 km	45.9 km	2538 m	91 minutes	l								

River Level Status of Gauging Station

KIV	River Level Status of Gauging Station										
SI Nos.	Station Type	River Basin Number	Basin Name	Name of River	Station Name	Highest Water Level Recorded (m)	Water Level (m) recorded at 9 AM Yesterday	Water Level(m) recorded at 9 AM Today	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Weather Condition	Downstream Settlement
1	AWLS				Dodena		NR	NR	#VALUE!	Partly Sunny	Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.33	1.58	0.25	Partly Sunny	
3	Principal			Haa Chhu	Damchu	6.00	2.91	3.15	0.24		Chukha and Downstream
4	Secondary	Basin I	Wang Chhu		Haa	2.60	1.13	1.1	-0.03	Sunny	Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		1.45	1.64	0.19	Sunny	Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.45	3.45	0.00	Cloudy	Samtse, Phuntsholing and Downstream
7	Secondary				Droyagang	7.07	4.01	3.95	-0.06		Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	4.44	4.30	-0.14	Cloudy	Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	2.28	2.44	0.16	Sunny	Mo Chhu Valley and Downstream
10	Secondary				Wangdue Bridge		3.15	3.45	0.30		PHPA I,PHPA II and Downstream
11	Principal	Basin II	Punatshang		Wangdue Rapid	7.82	3.65	4.00	0.35		THE AGE THAT AND DOWNSTEELING
12	Principal	busin ii	Chhu		Turitar Sunkosh	6.68	3.65	3.95	0.30	Cloudy	Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		2.75	3.05	0.30	Cloudy	SOWISTCOM OF SUBGING AND ELIGINOETING AND
14	Principal				Kerabari	11.90	6.05	6	0.15	Cloudy	Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.45	4.40	-0.05	Cloudy	Gelelephu Valley and Downstream
16	Principal			Mangdue Chhu	Bjizam	5.35	3.32	3.37	0.05	Cloudy	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary				Dakpai Chhu	2.26	1.56	1.54	-0.02	Sunny	Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	4.35	4.56	0.21		
19	Principal			Chambles Chb	Kurjey Chamkhar Chhu	4.00	2.74	2.73	-0.01	Sunny	Chamkhar Valley, Zhemgang and Downstream
20	Principal			Kuri Chhu	Shingkhar (Bemethang)		2.56	2.58	0.02		Zhemgang and Downstream
21	Principal				Sumpa	7.65	5.74	5.22	-0.52	Sunny	Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu
22	Secondary		Basin III Manas		Khoma	5.30	2.70	2.37	-0.33	,	
23	Secondary				Autsho	8.48	5.95	5.23	-0.72	Cloudy and Clear	Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III			Kurizampa	18.45	10.50	9.70	-0.80	Sunny	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.85	2.9	0.05	Sunny	Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary			Drangme Chhu	Doksum		4.45	5.43	0.98	Sunny	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary				Chazam		9.70	10.30	0.60	Cloudy	Downstream Settlement of Kuri-Gongri and Panbang
28	Principal				Ozorong	6.75	3.36	3.65	0.29	Sunny	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.85	1.84	-0.01	·	
30	Principal			Ngara Ama Chhu	Panbang	12.48	7.63	7.64	0.01	Sunny	Manas and Downstream
31	Principal				Pangzam		6.90	6.55	-0.35		Bangtar Settlement and Downstream
32	Principal				Bangtar		3.00	3.10	0.10	Sunny	Downstream of Bangtar Settlement

The Water Level are relative Gauge Hight of the Observation site reference to the Site Specific and doesnot represent the actual water depth.

ALERT

NOTE

ALARM

NR Represent that the Data has not been reported or Not Updated

ISSUED BY: FMCR,HWRSD,NCHM