

## कुपः ॲन्स कुन्धन् न्हत्ये व्यवस्थानिक स्वाप्य हे स्वा कुपः ॲन्स कुन्धन् न्हत्य व्यवस्थानिक स्वाप्य दे स्वाप्य





2 hours 30 minutes

Status and River Level Trends:

Friday, July 19, 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	6.63	6.63	0			
2				Thorthormi Tsho		7.50	5.00	5.78	5.78	0	Thanza, Tenchey, Lhedi and Lunana area and Downstream of Pho Chhu and Puna-		
3				Rapstreng Tsho		7.40	5.00	6.26	6.25	0.01	Wangdue Valley		
4			Pho Chhu	Bay Tsho		7.40	5.00	6.35	6.38	-0.03	,		
5	Basin II	Punatshang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!			
6	DOJIII II			Tarina Wachey		8.50	10.50	6.84	6.84	0	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,		
7						Dangsa		5.50	7.00	4.66	4.62	0.04	Khuruthang) Puna-Wangdue Valley and Downstream
8			Mo Chhu	Taksemakhang		7.50	8.50	5.81	5.78	0.03			
9				Tashithang		9.00	10.50	7.07	6.92	0.15	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream		
10				Yebesa		5.00	7.00	2.29	2.22	0.07			

Approximate Lead Time for Evacuation after the detection of flood at Four lake Sensor Approximate 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. Tmo available fo Evacuation Approx. Distant from Sensor (Bay Tsho) Approx. Time fo Flood to reach at the Place Name of Place Downstream Name of Place Downstream Approx. Distance from iensor (Thorthormi Tsho) Approx. Tme available for Evacuation 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 100 km 5-7 hours 5 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

CHamiki	Chamikhai China ana Mangade China 3db 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(m) recorded at 9 AM Today		Downstream Settlement	
1				Tshampa		5.00	6.50	4.34	4.33	0.01		
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.79	4.75	0.04	Chokortoe Pry School, Kurjey Village, Wangdicholing, Chamkhar Town, Gangrithng Pry School, Gyelkhar Village and Downstream settlement under Zhemgang.	
3	Basin III Manas	Manas		Kurjey	5.72	3.30	5.00	2.34	2.3	0.04		
4			Mangdue Chhu	Jongthang		5.90	7.00	3.31	NR	#REF!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa	
5			Mangaue Chnu	Biizam	5 52	4.20	5.50	2.71	2.62	0.09	and Zhemgang	

Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin							Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin							
Appı	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.Distanc e from the Tshampa AWLS	Cumlative Distance from	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	1								

Rive	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	Basin I			Dodena		1.99	NR	#VALUE!		Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.22	1.18	0.04		Timple valley and Source
3	Principal				Damchu	6.00	2.76	2.71	0.05		Chukha and Downstream
4	Secondary		Wang Chhu	Haa Chhu	Haa	2.60	1.05	0.99	0.06		Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		1.33	1.36	-0.03		Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.70	3.55	0.15		Samtse, Phuntsholing and Downstream
7	Secondary				Droyagang	7.07	4.28	4.23	0.05		Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	3.93	3.9	0.03		Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	2.25	2.19	0.06		Mo Chhu Valley and Downstream
10	Secondary		Punatshang Chhu		Wangdue Bridge		2.85	2.7	0.15		PHPA I,PHPA II and Downstream
11	Principal	Basin II			Wangdue Rapid	7.82	3.35	3.15	0.2		
12	Principal	Dasiii ii			Turitar Sunkosh	6.68	3.50	3.30	0.20		Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		2.60	2.45	0.15		
14	Principal				Kerabari	11.90	5.84	5.61	0.23		Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.80	4.55	0.25		Gelelephu Valley and Downstream
16	Principal		Chamkhi		Bjizam	5.35	2.73	2.64	0.09		MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary			Mangdue Chhu	Dakpai Chhu	2.26	1.48	1.45	0.03		Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	4.22	3.72	0.5		
19	Principal			Chamkhar Chhu	Kurjey	4.00	2.34	2.3	0.04		Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.35	2.22	0.13		Zhemgang and Downstream
21	Principal				Sumpa	7.65	4.63	5.05	-0.42		Lhuntse Downstream,Kurizampa,KHPA and Downstream along the Kuri Chhu
22	Secondary			Kuri Chhu	Khoma	5.30	2.10	2.25	-0.15		
23	Secondary			Kuri Ciinu	Autsho	8.48	4.56	5.05	-0.49		Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	8.80	9.15	-0.35		KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.39	2.57	-0.18		Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary				Doksum		4.98	4.64	0.34		Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary		_	Drangme Chhu	Chazam		9.05	9	0.05		Downstream Settlement of Kuri-Gongri and Panbang
28	Principal				Ozorong	6.75	2.60	2.50	0.1		Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.75	1.7	0.05		
30	Principal				Panbang	12.48	7.05	6.68	0.37		Manas and Downstream
31	Principal				Ngara Ama Chhu	Pangzam		7.90	7.70	0.2	
32	Principal			3	Bangtar		3.60	3.22	0.38		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.

\*\*ALEXT\*\*
NA Represent that the Data has not been reported or Not Updated

ISSUED BY: FMCR,HWRSD,NCHM