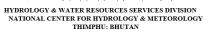


Status and River Level Trends: Glacier Lake Outbrust Flood (GLOF) Early Warning System

मुल र्लेट्य हु: २ धुर : र चावयः मृत्येयः रेगः पर्वः हुः च



Thursday, November 07, 2019

Issued at:

10:00 AM

1. Punatshang Chhu Sub Basin

SI No.	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 9:00 AM Yesterday	Water Level (m) recorded at 9:00 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	6.31	6.31	0.00		
2			Pho Chhu	Thorthormi Tsho		7.50	5.00	5.56	5.55	0.01		
3				Rapstreng Tsho		7.40	5.00	6.02	6.02	0.00	Thanza, Tenchey, Lhedi and Lunana area and Downstream of Pho Chhu and Puna-Wangdue Valley	
4				Bay Tsho		7.40	5.00	6.19	6.19	0.00	Tuncy	
- 5	Basin II	Punatshang			Thanza		7.70	8.70	6.29	6.29	0.00	
6	Dasin II	Chhu		Tarina Wachey		8.50	10.50	6.49	6.49	NR	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,	
7				Dangsa		5.50	7.00	3.73	3.73	0.00	Khuruthang) Puna-Wangdue Valley and Downstream	
8			Mo Chhu	Taksemakhang		7.50	8.50	NR	NR	NR		
9				Tashithang		9.00	10.50	NR	NR	NR	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream	
10				Yebesa		5.00	7.00	1.43	1.44	-0.01		

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 Dangsa Sensor						
Sl Nos	Name of Place	Approx.	Approx.	Approx. Distance	Approx. Distance	Approx. Tme	SI Nos	Name of Place	Approx. Distance	Approx. Time for	Approx. Tme available for Evacuation		
1	Thanza	1.5 km	2.8 km	3.3 km	6.7 km		1	Wolathang	5.8 km	30 minutes	30 minutes		
2	Tenchey	2.9 km	4.1 km	4.6 km	8.2 km	20-60	2	Samdingkha	12.0 km	55 minutes	55 minutes		
3	Tshojo	8.1 km	10.0 km	10.5 km	13.8 km	minutes	minutes	3	Punakha Dzong	20 km	90 minutes	1 hours 30 minutes	
4	Lhedi	16.7 km	17.6 km	18.5 km	21.8 km		4	Khuruthang	24 km	120 minutes	2 hours		
5	Puna-Wangdue	100 km	100 km	100 km	100 km	5-7 hours	5	Bajo Town	30.5 km	145 minutes	2 hours 25 minutes		
							6	Wangdue Bridge	33 km	150 minutes	2 hours 30 minutes		

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.

2. Chamkhar Chhu and Mangdue Chhu Sub Basin

5 Bumthang

7 Gyelkhar

6 Gangrithang PS

1 km

0.3km

1.7 km

43.9 km

44.2 km

45.9 km

2562 m

2552 m

2538 m

83 minutes

84 minutes

91 minutes

SI No.	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 9:00 AM Yesterday	Water Level (m) recorded at 9:00 AM Today	Water Level Rise (+) /Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement		
1			Chamkhar Chhu	Chamkhar Chhu	Tshampa		5.00	6.50	3.79	3.78	-0.01	Chokortoe Pry School, Kurjey Village, Wangdicholing, Chamkhar Town, Gangrithng Pry School, Gyelkhar Village and Downstream settlement under Zhemgang.	
2					Khagthang		5.50	6.00	4.47	4.46	-0.01		
3	Basin III	Manas		Kurjey	5.72	3.30	5.00	1.72	1.70	-0.02	School, Sychilar Village and Downsteam Schools and Calengang.		
4			Manadas Chia	Jongthang		5.90	7.00	4.01	4.00	-0.01	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa and		
5					Mangdue Chhu	Mangaue Crinu	Bjizam	5.52	4.20	5.50	1.86	1.85	-0.01

					Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin Approximate Lead Time for Evacuation after the detection of Flood at the Jongthang AWLS						
Sl Nos	Name of Place	Approx.	Approx.	Elevation	Approx. Lead	SI Nos	Name of Place	Approx.	Approx.	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	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						

3. River Level Status of Gauging Station

SI No.	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 9:00 AM Today	Water Level Rise (+)/Fall (-) in meters during last 24 Hours ending at 9:00 AM Today	Weather Condition	Downstream Settlement
1	AWLS				Dodena		1.57	NR	#VALUE!	Sunny	Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	0.63	0.62	-0.01	Sunny	I nimpnu Valley and Downstream
3	Principal				Damchu	6.00	2.24	2.23	-0.01	Sunny	Chukha and Downstream
4	Secondary	Basin l	Wang Chhu	Haa Chhu	Haa	2.60	0.64	0.64	0.00	Sunny	Haa and Wang Chhu Downstream
5	Secondary			Pa Chhu	Bonday		0.94	0.93	-0.01	Sunny	Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		2.50	2.50	0.00	Sunny	Samtse, Phuntsholing and Downstream
7	Principal			Amo Ciniu	Doyagang	7.07	2.49	2.48	-0.01	Sunny	Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	2.79	2.78	-0.01	Sunny	Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	1.39	1.39	0.00	Sunny	Mo Chhu Valley and Downstream
10	Secondary				Wangdue Bridge		1.10	1.10	0.00	Sunny	PHPA I,PHPA II and Downstream
11	Principal	Basin II	Punatshang	Punatshang Chhu	Wangdue Rapid	7.82	1.55	1.55	0.00		rnra i,rnra ii and Downstream
12	Principal	Dasiii ii	Chhu		Turitar Sunkosh	6.68	2.10	2.10	0.00	Sunny	Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		1.35	1.35	0.00	Sunny	Downsacam of Dagana and Enamoizingana
14	Principal				Kerabari	11.90	4.05	4.01	-0.04	Sunny	Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		3.70	3.70	0.00	Cloudy	Gelelephu Valley and Downstream
16	Principal				Bjizam	5.35	1.86	1.87	0.01	Sunny	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary			Mangdue Chhu	Dakpai Chhu	2.26	1.32	1.31	-0.01	Sunny	Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	3.03	3.02	-0.01		
19	Principal				Kurjey	4.00	1.72	1.70	-0.02	Sunny	Chamkhar Valley, Zhemgang and Downstream
20	Principal			Chamkhar Chhu	Shingkhar (Bemethang)		1.53	1.51	-0.02	Sunny	Zhemgang and Downstream
21	Principal				Sumpa	7.65	3.22	3.24	0.02	Sunny	Lhuntse Downstream,Kurizampa,KHPA and Downstream along the Kuri Chhu
22	Secondary			Kuri Chhu	Khoma	5.30	1.45	1.42	-0.03	Sumy	Liturise Downstream, Kurizampa, KriPA and Downstream along the Kuri Ciniu
23	Secondary			Kuireinu	Autsho	8.48	3.13	3.10	-0.03	Sunny	Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	7.09	7.07	-0.02	Sunny	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	1.71	1.73	0.02	clear	Doksum, Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Principal				Doksum		3.23	3.22	-0.01	Sunny	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary				Chazam		7.55	7.55	0.00	Sunny	Downstream Settlement of Kuri-Gongri and Panbang
28	Principal			Drangme Chhu	Ozorong	6.75	1.40	1.40	0.00	Sunny	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.40	1.40	0.00	Sumy	Downsheam of Kurl-Gongri and Panoang
30	Principal				Panbang	12.48	4.40	4.36	-0.04	Sunny	Manas and Downstream
31	Principal			Ngara Ama Chhu	Pangzam		5.60	5.60	0.00	Sunny	Bangtar Settlement and Downstream
32	Principal				Bangtar		1.94	1.93	-0.01	Sunny	Downstream of Bangtar Settlement

NOTE The Water Level are relative Gauge Hight of the Observation site reference to the Site Specific and does not represent the actual water depth.

ALERT

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

ISSUED BY: FMCR,HWRSD,NCHM