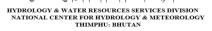


ড়ৣ৻৴৶৲ৼঀ৾৻৴৶ৼয়৻ৼয়৾৻ৼয়৻য়ড়৻য়ঀ৾ঀৼৼঀ৾ঢ়ৼয় ড়ৢ৻৴৶৲ৼঀ৾৻৴ড়৻ৼড়৻ৼয়৻য়ড়৻য়ঀ৾ঀৼৼঀ৾ঢ়ৼয়৻





2 hours 30 minutes

Status and River Level Trends:

Monday, July 29, 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 Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement		
1	Basin II		Pho Chhu tshang Chhu Ta	Luggay Tsho		7.80	10.00	6.64	6.64	0.00	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna- Wangdue Valley		
2				Thorthormi Tsho		7.50	5.00	5.79	5.79	0.00			
3				Rapstreng Tsho		7.40	5.00	6.29	6.29	0.00			
4				Bay Tsho		7.40	5.00	6.46	6.46	0.00	,		
5		Bunatrhang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!			
6	Dasiii ii	- unaconang Crinu		Tarina Wachey		8.50	10.50	6.97	6.96	-0.01	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,		
7						Dangsa		5.50	7.00	5.04	4.94	-0.10	Khuruthang) Puna-Wangdue Valley and Downstream
8				Taksemakhang		7.50	8.50	5.97	5.84	-0.13			
9			Mo Chhu	Mo Chhu Tashithang		9.00	10.50	7.71	7.19	-0.52	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream		
10						Yebesa		5.00	7.00	2.55	2.39	-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 ensor (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 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

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	4.52	4.46	-0.06	Chokortoe Pry School, Kurjey Village, Wangdicholing, Chamkhar Town, Gangrithng Pry
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.97	4.90	-0.07	School, Gvelkhar Village and Downstream settlement under Zhemgang.
3	Basin III	Manas		Kurjey	5.72	3.30	5.00	2.63	2.53	-0.1	
4			Mangdue Chhu	Jongthang		5.90	7.00	NR	NR	#VALUE!	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa
5			ivianguue Crinu	Bjizam	5.52	4.20	5.50	3.08	2.88	-0.20	and Zhemgang

Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin							Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin							
App	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	1								

River Level Status of Gauging Station

KIV	er Level Statu	s 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	1.53	1.43	-0.10	Partly Sunny		
3	Principal			Haa Chhu	Damchu	6.00	3.30	3.04	-0.26	Partly Cloudy	Chukha and Downstream	
4	Secondary	Basin I	Wang Chhu		Haa	2.60	1.46	1.46	0		Haa and Wang Chhu Downstream	
5	Principal			Pa Chhu	Bonday		1.77	1.58	-0.19	Sunny	Downstream of Paro Valley and Wang Chhu Basin	
6	Principal			Amo Chhu	Dorokha		3.70	3.55	-0.15	Sunny	Samtse, Phuntsholing and Downstream	
7	Secondary				Droyagang	7.07	3.99	3.64	-0.35		Phunsholing and Downstream	
8	Secondary			Pho Chhu	Samdingkha	6.10	4.75	4.56	-0.19	Partly Cloudy	Puna-Wangdue Valley and Downstream	
9	Principal			Mo Chhu	Yebesa	3.94	2.52	2.37	-0.15		Mo Chhu Valley and Downstream	
10	Secondary		Punatshang Chhu	5 Punatshang Chhu	Wangdue Bridge		3.95	3.55	-0.40		PHPA I,PHPA II and Downstream	
11	Principal	Basin II			Wangdue Rapid	7.82	4.45	4.09	-0.36		FIFA ,FIFA II and Downstream	
12	Principal	Dasiii ii			Turitar Sunkosh	6.68	4.60	4.15	-0.45		Downstream of Dagana and Lhamoizingkha	
13	Secondary				Sunkosh Bridge		3.70	3.25	-0.45	Sunny	Source of Sugaria and Entirolizing and	
14	Principal				Kerabari	11.90	6.72	6.35	-0.37		Lhamoizingkha and Downstream	
15	Secondary			Mao Chhu	Sherzhong		4.50	4.45	-0.05	Cloudy	Gelelephu Valley and Downstream	
16	Principal			Bjizam Mangdue Chhu Dakpai Chhu Tingtibi Kurjey Chamkhar Chhu	Bjizam	5.35	3.10	2.90	-0.20	Sunny	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang	
17	Secondary				2.26	1.56	1.52	-0.04	Sunny	Downstream of Zhmgang and Panbang		
18	Principal				Tingtibi	7.45	4.55	4.57	0.02	Sumy	Source carrot simpung and tunoung	
19	Principal				Kurjey	4.00	2.62	2.53	-0.09		Chamkhar Valley, Zhemgang and Downstream	
20	Principal			Chamknar Chnu	Shingkhar (Bemethang)		2.40	2.35	-0.05		Zhemgang and Downstream	
21	Principal		Basin III Manas	Kuri Chhu	Sumpa	7.65	5.35	5.05	-0.30	Sunny	Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu	
22	Secondary				Khoma	5.30	2.74	2.42	-0.32	,		
23	Secondary				Autsho	8.48	5.47	5.07	-0.4	Partly Cloudy	Kurizampa,KHPA and Downstream along the Kuri Chhu	
24	Principal	Basin III		Manas		Kurizampa	18.45	10.04	9.40	-0.64		KHPA and Downstream along the Kuri Chhu
25	Principal			Drangme Chhu Ci Crangme Chhu She Pa Ngara Ama Chhu	Muktirap	6.00	3.23	2.85	-0.38	Sunny	Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu	
26	Secondary				Doksum		5.17	4.89	-0.28	Sunny	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu	
27	Secondary				Chazam		10.60	10.20	-0.40	Sunny	Downstream Settlement of Kuri-Gongri and Panbang	
28	Principal				Ozorong	6.75	4.32	3.64	-0.68	Sunny	Downstream of Kuri-Gongri and Panbang	
29	Secondary				Sheri Chhu	2.58	2.12	1.72	-0.40			
30	Principal				Panbang	12.48	7.93	7.53	-0.40	Cloudy	Manas and Downstream	
31	Principal				Pangzam		7.25	7.10	-0.15		Bangtar Settlement and Downstream	
32	Principal				Bangtar		3.30	3.34	0.04		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