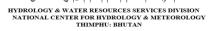


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Status and River Level Trends:

Sunday, July 21, 2019

Issued at: 10:00 AM

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)	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement	
1		Punatshang Chhu	Lugsay Tsho Thortnormi Tsho Rapstreng Tsho Pho Chhu Bay Tsho Thanza Tarina Wachey Dangsa	Luggay Tsho		7.80	10.00	6.63	6.63	0	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna- Wangdue Valley	
2				Thorthormi Tsho		7.50	5.00	5.78	5.77	0.01		
3				Rapstreng Tsho		7.40	5.00	6.27	6.28	-0.01		
4				Bay Tsho		7.40	5.00	6.42	6.40	0.02		
5	Basin II			Thanza		7.70	8.70	NR	NR	#VALUE!		
6	DOJIII II			Tarina Wachey		8.50	10.50	6.87	6.83	0.04	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,	
7					5.50	7.00	4.64	4.63	0.01	Khuruthang) Puna-Wangdue Valley and Downstream		
8		İ		Taksemakhang		7.50	8.50	5.78	5.77	0.01		
9			Mo Chhu	Tashithang		9.00	10.50	6.83	7.08	-0.25	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream	
10				Yebesa	· ·	5.00	7.00	2.19	2.30	-0.11		

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) 30 minutes 55 minutes 90 minutes 120 minutes 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 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 150 minutes 2 hours 30 minutes 33 km

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 Suh Basin

	Chamikhai China ana Mangade China 340 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	4.32	4.31	0.01		
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.74	4.74	0	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	2.32	2.27	0.05		
4	4		Mangdue Chhu	Jongthang		5.90	7.00	NR	4.97	#REF!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa	
5		ivianguue Crinu	Biizam	5.52	4 20	5.50	2 64	2.61	0.03	and Zhemgang		

Apı	• • •			Chamkhar Chhu Sub Basi ction of Flood at the Tsha		Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin 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	1						
7	Gyelkhar	1.7 km	45.9 km	2538 m	91 minutes	1						

River Level Status of Gauging Station

Riv	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		1.97	1.92	0.05		Thimphu Valley and Downstream
2	Principal			Thim Chhu Haa Chhu Pa Chhu	Lungtenphu	2.82	1.18	1.10	0.08		
3	Principal		Wang Chhu		Damchu	6.00	2.75	2.70	0.05		Chukha and Downstream
4	Secondary				Haa	2.60	0.96	0.96	0		Haa and Wang Chhu Downstream
5	Principal				Bonday		1.34	1.32	0.02		Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.45	3.30	0.15		Samtse, Phuntsholing and Downstream
7	Secondary			Allo Cilia	Droyagang	7.07	3.97	4.05	-0.08		Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	3.93	3.93	0.00		Puna-Wangdue Valley and Downstream
9	Principal		Punatshang Chhu	Mo Chhu	Yebesa	3.94	2.15	2.28	-0.13		Mo Chhu Valley and Downstream
10	Secondary			Punatshang Chhu	Wangdue Bridge		2.70	2.80	-0.1		PHPA I,PHPA II and Downstream
11	Principal	Basin II			Wangdue Rapid	7.82	3.21	3.35	-0.14		FIFA,FIFA II and Downstream
12	Principal	Basin II			Turitar Sunkosh	6.68	3.50	3.45	0.05		Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		2.65	2.60	0.05		Downstream of Dagana and Enamolingtha
14	Principal				Kerabari	11.90	5.83	5.64	0.19		Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.05	3.90	0.15		Gelelephu Valley and Downstream
16	Principal			Mangdue Chhu Chamkhar Chhu Kuri Chhu	Bjizam	5.35	2.68	2.60	0.08		MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary				Dakpai Chhu	2.26	1.40	1.52	-0.12		Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	3.85	3.99	-0.14		Sowisk call of Ellinguing and Fallouing
19	Principal				Kurjey	4.00	2.32	2.27	0.05		Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.25	2.20	0.05		Zhemgang and Downstream
21	Principal				Sumpa	7.65	4.60	4.94	-0.34		Lhuntse Downstream,Kurizampa,KHPA and Downstream along the Kuri Chhu
22	Secondary				Khoma	5.30	2.25	2.18	0.07		Enance bownstream, variety and bownstream drong are war ening
23	Secondary				Autsho	8.48	4.64	4.85	-0.21		Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	8.95	9.29	-0.34		KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.65	2.53	0.12		Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary			Drangme Chhu Ngara Ama Chhu	Doksum		4.45	4.40	0.05		Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary				Chazam		9.00	9.00	0.00		Downstream Settlement of Kuri-Gongri and Panbang
28	Principal				Ozorong	6.75	2.80	2.81	-0.01	-	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.73	2.46	-0.73		
30	Principal				Panbang	12.48	6.89	6.90	-0.01		Manas and Downstream
31	Principal				Pangzam		7.60	7.45	0.15		Bangtar Settlement and Downstream
32	Principal				Bangtar		3.10	3.00	0.10		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

NOTE

ALARM

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

ISSUED BY: FMCR,HWRSD,NCHM