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Status and River Level Trends:

Monday, July 22, 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 Basi	in										
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			-	Luggay Tsho		7.80	10.00	6.63	6.64	-0.01	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna- Wangdue Valley		
2				Thorthormi Tsho		7.50	5.00	5.77	5.78	-0.01			
3				Rapstreng Tsho		7.40	5.00	6.28	6.28	0			
4			1	Bay Tsho		7.40	5.00	6.40	6.42	-0.02			
5	Basin II	Punatshang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!			
6	Dusin ii	runaishang Chnu		Tarina Wachey		8.50	10.50	6.83	6.83	0	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,		
7				Dangsa		5.50	7.00	4.63	4.64	-0.01	Khuruthang) Puna-Wangdue Valley and Downstream		
8				Taksemakhang		7.50	8.50	5.77	5.76	0.01			
9				Tashithang		9.00	10.50	7.08	7.07	0.01	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream		
10						Yebesa		5.00	7.00	2.30	2.35	-0.05	]

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 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 Sub Basin

Chamk	Chamkhar Chnu and Iwangdue 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(m)	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement	
1				Tshampa		5.00	6.50	4.31	4.30	0.01		
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.74	4.76	-0.02	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	2.27	2.41	-0.14		
4			Mangdue Chhu	Jongthang		5.90	7.00	4.97	NR	#REF!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa	
5					ivianguue Ciniu	Bjizam	5.52	4.20	5.50	2.61	3.10	-0.49

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

Riv	er Level Statu	is 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		1.92	1.92	0		Thimphu Valley and Downstream		
2	Principal			Thim Chhu	Lungtenphu	2.82	1.10	1.05	0.05				
3	Principal				Damchu	6.00	2.70	2.74	-0.04		Chukha and Downstream		
4	Secondary	Basin I	Wang Chhu	Haa Chhu	Haa	2.60	0.96	0.94	0.02		Haa and Wang Chhu Downstream		
5	Principal			Pa Chhu	Bonday		1.32	1.36	-0.04		Downstream of Paro Valley and Wang Chhu Basin		
6	Principal			Amo Chhu	Dorokha		3.30	3.30	0.00		Samtse, Phuntsholing and Downstream		
7	Secondary			Allo Cilia	Droyagang	7.07	4.05	4.11	-0.06		Phunsholing and Downstream		
8	Secondary			Pho Chhu	Samdingkha	6.10	3.93	4.00	-0.07		Puna-Wangdue Valley and Downstream		
9	Principal			Mo Chhu	Yebesa	3.94	2.28	2.27	0.01		Mo Chhu Valley and Downstream		
10	Secondary				Wangdue Bridge		2.80	2.85	-0.05		PHPA I,PHPA II and Downstream		
11	Principal	Basin II	Punatshang Chhu	Punatshang Chhu	Wangdue Rapid	7.82	3.35	3.23	0.12		FIFA I, FIFA II alia bowiisti calii		
12	Principal	Dusiii ii			Turitar Sunkosh	6.68	3.45	3.50	-0.05		Downstream of Dagana and Lhamoizingkha		
13	Secondary				Sunkosh Bridge		2.60	2.65	-0.05		204134 Call of Sugaria and Enamorating and		
14	Principal				Kerabari	11.90	5.64	5.67	-0.03		Lhamoizingkha and Downstream		
15	Secondary			Mao Chhu	Sherzhong		3.90	5.30	-1.40		Gelelephu Valley and Downstream		
16	Principal			Mangdue Chhu	Bjizam	5.35	2.60	3.14	-0.54		MHPA Dam, Power House and Downstream of Trongsa & Zhemgang		
17	Secondary				Dakpai Chhu	2.26	1.52	1.55	-0.03		Downstream of 2hmgang and Panbang		
18	Principal			L		Tingtibi	7.45	3.99	4.07	-0.08		Downstream of Zimgang and Panbang	
19	Principal			Chamkhar Chhu	Kurjey	4.00	2.27	2.42	-0.15		Chamkhar Valley, Zhemgang and Downstream		
20	Principal			Chamkhar Chnu	Shingkhar (Bemethang)		2.20	2.30	-0.1		Zhemgang and Downstream		
21	Principal				i		Sumpa	7.65	4.94	5.28	-0.34		Lhuntse Downstream,Kurizampa,KHPA and Downstream along the Kuri Chhu
22	Secondary							Kuri Chhu	Khoma	5.30	2.18	2.70	-0.52
23	Secondary			Kuii Ciiiu	Autsho	8.48	4.85	5.25	-0.4		Kurizampa,KHPA and Downstream along the Kuri Chhu		
24	Principal	Basin III	Manas		Kurizampa	18.45	9.29	9.25	0.04		KHPA and Downstream along the Kuri Chhu		
25	Principal			Kholong Chhu	Muktirap	6.00	2.53	3.75	-1.22		Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu		
26	Secondary		Ī		Doksum		4.40	4.37	0.03		Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu		
27	Secondary				Chazam		9.00	9.60	-0.60		Downstream Settlement of Kuri-Gongri and Panbang		
28	Principal			Drangme Chhu	Ozorong	6.75	2.81	2.86	-0.05		Downstream of Kuri-Gongri and Panbang		
29	Secondary				Sheri Chhu	2.58	2.46	2.02	0.44				
30	Principal				Panbang	12.48	6.90	7.10	-0.2		Manas and Downstream		
31	Principal					Ngara Ama Chhu	Pangzam		7.45	7.65	-0.2		Bangtar Settlement and Downstream
32	Principal					Bangtar		3.00	3.02	-0.02		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