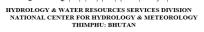


क्षप्रभट्ट स्वास्य प्रमुख्य स्वास्य स्व





Status and River Level Trends:

Saturday, August 24, 2019

Issued at: 10:00 AM

Glacier Lake Outbrust Flood (GLOF) Early Warning System

1. 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	6.65	6.67	0.02					
2				Thorthormi Tsho		7.50	5.00	5.83	5.84	0.01					
3			Pho Chhu	Rapstreng Tsho		7.40	5.00	6.30	6.33	0.03	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna-Wangdue Valley				
4				Pho Chhu	Bay Tsho		7.40	5.00	6.44	6.51	0.07	,			
5	Basin II	Punatshang				Thanza		7.70	8.70	NR	NR	#VALUE!			
6	Dasin ii	Chhu								Tarina Wachey		8.50	10.50	6.84	7.06
7				Dangsa		5.50	7.00	4.65	4.82	0.17	Khuruthang) Puna-Wangdue Valley and Downstream				
8				Taksemakhang		7.50	8.50	5.78	5.94	0.16					
9			Mo Chhu	Tashithang		9.00	10.50	6.57	7.33	0.76	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream				
10						Yebesa		5.00	7.00	2.03	2.45	0.42			

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					
SI Nos		Approx. Distance from Sensor (Bay Tsho)	Approx. Distance from Sensor (Rapstreng Tsho)	Approx. Distance from Sensor (Thorthormi Tsho)	Approx. Distance from Sensor (Luggey Tsho)	Approx. Tme available for Evacuation	SI Nos	Name of Place Downstream	Approx. Distance from Sensor (Bay Tsho)	Approx. Time for Flood to reach at the Place	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	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	1	4	Khuruthang Town	24 km	120 minutes	2 hours		
5	Puna-Wangdue Valley	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

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	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement
1				Tshampa		5.00	6.50	4.33	4.47	0.14	
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.78	4.86	0.08	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	2.30	2.52	0.22	Scientification village and Dominical scitching and Linkingsing.
4			Mangdue Chhu	Jongthang		5.90	7.00	4.87	5.09	0.22	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa
5	1 '	Mangdue Chnu	Bjizam	5.52	4.20	5.50	2.57	2.85	0.28	and Zhemgang	

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

3. River Level Status of Gauging Station

3. Kiver	Level Status	n Gauging St	auon								
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	1.95	0.03	Cloudy	Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.20	1.52	0.32	Cloudy	Impha valey and Dovincean
3	Principal				Damchu	6.00	2.77	3.22	0.45	Cloudy	Chukha and Downstream
4	Secondary	Basin I	Wang Chhu	Haa Chhu	Haa	2.60	1.02	1.02	0.00	Cloudy	Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		1.35	1.66	0.31	Cloudy	Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.30	3.40	0.10	Cloudy	Samtse, Phuntsholing and Downstream
7	Secondary			Anio Ciniu	Droyagang	7.07	3.15	3.88	0.73	Cloudy	Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	3.85	4.25	0.40	Cloudy	Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	2.01	2.47	0.46		Mo Chhu Valley and Downstream
10	Secondary			Punatshang Chhu	Wangdue Bridge		2.60	3.55	0.95		PHPA LPHPA II and Downstream
11	Principal	Basin II	Donatal and Chlor		Wangdue Rapid	7.82	3.05	4.02	0.97	Cloudy	THEAT, THAT and Downstream
12	Principal	Dasiii ii	Punatshang Chhu		Turitar Sunkosh	6.68	3.20	3.80	0.60	Cloudy	Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		2.40	3.00	0.60	Cloudy	Downsteam of Dagata and Litationzingsata
14	Principal				Kerabari	11.90	5.43	5.72	0.29	Cloudy	Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.10	4.00	-0.10	Sunny	Gelelephu Valley and Downstream
16	Principal			Mangdue Chhu Chamkhar Chhu Kuri Chhu	Bjizam	5.35	2.57	2.86	0.29	Cloudy	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary				Dakpai Chhu	2.26	1.49	1.51	0.02	Cloudy	Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	3.78	3.97	0.19	Cloudy	Downstream of Zinigang and Landang
19	Principal				Kurjey	4.00	2.31	2.53	0.22	Cloudy	Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.16	2.30	0.14		Zhemgang and Downstream
21	Principal				Sumpa	7.65	4.33	4.65	0.32	Cloudy	I have December Vision VIIDA and December of the Visi Chlor
22	Secondary				Khoma	5.30	1.92	1.96	0.04	Cloudy	Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu
23	Secondary				Autsho	8.48	4.20	4.53	0.33	Cloudy	Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	8.30	8.61	0.31	Cloudy	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.14	2.33	0.19		Doksum, Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary				Doksum		4.31	4.42	0.11	cloudy with L/Rain	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary			Drangme Chhu Ngara Ama Chhu	Chazam		8.50	8.85	0.35	Cloudy	Downstream Settlement of Kuri-Gongri and Panbang
28	Principal				Ozorong	6.75	2.32	2.65	0.33	cloudy	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.54	1.55	0.01		Downstream of Kuri-Gongri and Pangang
30	Principal				Panbang	12.48	5.92	6.13	0.21	Cloudy	Manas and Downstream
31	Principal				Pangzam		6.15	6.05	-0.10	Cloudy	Bangtar Settlement and Downstream
32	Principal				Bangtar		2.44	2.33	-0.11	Cloudy	Downstream of Bangtar Settlement

NOTE The Water Level are relative Gauge Hight of the Observation site reference to the Site Specific and doesnot represent the actual water depth.

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ALARM

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

ISSUED BY: FMCR,HWRSD,NCHM