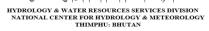


कुतःखॅन्स्रः सुन्धन्नन्द्वते ब्रॅक्षः स्त्रीन्त्वत्यः कृताः पदे स्त्रे ना





Status and River Level Trends:

Saturday, July 27, 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 Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement								
1			Pho Chhu u	Luggay Tsho		7.80	10.00	6.64	6.63	-0.01									
2				Thorthormi Tsho		7.50	5.00	5.79	5.78	-0.01									
3				Rapstreng Tsho		7.40	5.00	6.30	6.30	0.00	Thanza, Tenchey, Lhedi and Lunana area and Downstream of Pho Chhu and Puna- Wangdue Valley								
4				Bay Tsho		7.40	5.00	6.45	6.43	-0.02	,								
5	Basin II	Punatshang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!									
6	Dusin ii	Fullationaling Cilliu						1	1			Tarina Wachey		8.50	10.50	6.93	6.92	-0.01	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,
7				Dangsa		5.50	7.00	5.00	4.94	-0.06	Khuruthang) Puna-Wangdue Valley and Downstream								
8			Mo Chhu	Taksemakhang		7.50	8.50	5.89	5.94	0.05									
9				Tashithang		9.00	10.50	7.57	7.65	0.08	Gasa, Mo Chhu Valley, Puna-Wangdue Valley and Downstream								
10					Yebesa		5.00	7.00	2.51	2.53	0.02]							

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 the Dangsa Sensor

SI Nos	Name of Place Downstream	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		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	ĺ	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.

Chamkhar Chhu and Mangdue Chhu Sub Basin

CHanne	Chankhai Chilu and Mangdue Chilu 300 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	4.47	4.54	0.07			
2			Chamkhar Chhu	Khagthang		5.50	6.00	5.00	5.12	0.12	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	2.67	2.72	0.05			
4			Mangdue Chhu	Jongthang		5.90	7.00	5.27	NR	#VALUE!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa		
5	1				Mangaue Chnu	Biizam	5 52	4 20	5.50	3 14	3.17	0.03	and Zhemgang

Apı	Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin Approximate Lead Time for Evacuation after the detection of Flood at the Tshampa AWLS							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	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]								

River Level Status of Gauging Statio

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		NR	NR	#VALUE!		Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.45	1.58	0.13		,,
3	Principal				Damchu	6.00	3.13	3.23	0.10		Chukha and Downstream
4	Secondary	Basin I	Wang Chhu	Haa Chhu	Haa	2.60	1.48	1.42	-0.06		Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		1.67	1.67	0.00		Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.75	3.75	0.00		Samtse, Phuntsholing and Downstream
7	Secondary				Droyagang	7.07	4.55	4.62	0.07		Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	4.60	4.55	-0.05		Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	2.49	2.52	0.03		Mo Chhu Valley and Downstream
10	Secondary				Wangdue Bridge		3.80	3.70	-0.10		PHPA I,PHPA II and Downstream
11	Principal	Basin II	Punatshang		Wangdue Rapid	7.82	4.35	4.25	-0.1		THE A JUNE DOWNSTEAM
12	Principal	Dusiii ii	Chhu	Punatshang Chhu	Turitar Sunkosh	6.68	4.40	4.35	-0.05		Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		3.50	3.50	0.00		Sownstream of Sugaria and Entimoteinguita
14	Principal				Kerabari	11.90	6.7	6.8	0.1		Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.90	4.60	-0.30	Cloudy	Gelelephu Valley and Downstream
16	Principal				Bjizam	5.35	3.17	3.20	0.03	Clear Sky	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary			Mangdue Chhu Chamkhar Chhu	Dakpai Chhu	2.26	1.62	1.59	-0.03		Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	4.94	4.5	-0.44		Sommitteen of Emilyang and Fandang
19	Principal				Kurjey	4.00	2.67	2.74	0.07		Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.45	2.40	-0.05		Zhemgang and Downstream
21	Principal				Sumpa	7.65	5.20	5.50	0.30		Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu
22	Secondary			Kuri Chhu	Khoma	5.30	2.50	2.85	0.35		
23	Secondary				Autsho	8.48	5.33	5.65	0.32		Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	9.81	10.16	0.35		KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.97	5.5	2.53		Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary				Doksum		4.37	5.13	0.76		Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary				Chazam		10.45	10.65	0.20		Downstream Settlement of Kuri-Gongri and Panbang
28	Principal			Drangme Chhu	Ozorong	6.75	3.83	4.16	0.33	Partly Cloudy	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	2.15	2.33	0.18	Partly Cloudy	
30	Principal				Panbang	12.48	8.39	8.55	0.16	Clear Sky	Manas and Downstream
31	Principal			Ngara Ama Chhu	Pangzam		7.20	7.25	0.05		Bangtar Settlement and Downstream
32	Principal				Bangtar		3.75	3.35	-0.40	Cloudy	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

ALERT
ALARM

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

ISSUED BY: FMCR,HWRSD,NCHM