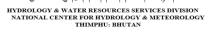


कुतःखॅन्स्रः सुन्धन्नन्द्वते ब्रॅक्षः स्त्रीन्त्वत्यः कृताः पदे स्त्रे ना





Status and River Level Trends:

Wednesday, July 31, 2019

Issued at: 10:00 AM

Glacier Lake Outbrust Flood (GLOF) Early Warning System

	Glacier Lake Outbrast Flood (GLOT) Larry Warning System															
	Punatshang	Chhu Sub Bas	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(m)	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement					
1				Luggay Tsho		7.80	10.00	6.66	6.67	0.01						
2			Pho Chhu hu	Thorthormi Tsho		7.50	5.00	5.81	5.82	0.01	Thanza, Tenchey, Lhedi and Lunana area and Downstream of Pho Chhu and Puna-					
3				Pho Chhu	Rapstreng Tsho		7.40	5.00	6.32	6.33	0.01	Wangdue Valley				
4					Bay Tsho		7.40	5.00	6.51	6.54	0.03					
5	Basin II	Punatshang Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!						
6	DOJIII II	runatshang Chilu							Tarina Wachey		8.50	10.50	6.98	7.00	0.02	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,
7										Dangsa		5.50	7.00	4.86	4.93	0.07
8				Taksemakhang		7.50	8.50	5.88	5.95	0.07						
9			Mo Chhu	nu Tashithang		9.00	10.50	7.06	7.20	0.14	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream					
10						Yebesa	· ·	5.00	7.00	2.29	2.31	0.02	7			

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	i l	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

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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	4.50	4.58	0.08		
2			Chamkhar Chhu	Khagthang		5.50	6.00	4.93	5.13	0.20	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	2.52	2.74	0.22		
4			Mangdue Chhu	Jongthang		5.90	7.00	5.17	NR	#VALUE!	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa	
5			ivianguue Ciliu	Bjizam	5.52	4.20	5.50	2.91	3.31	0.40	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

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!	Partly Sunny	Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.43	1.33	-0.10	Partly Sunny	
3	Principal				Damchu	6.00	2.97	2.91	-0.06		Chukha and Downstream
4	Secondary	Basin I	Wang Chhu	Haa Chhu	Наа	2.60	1.37	1.13	-0.24	Sunny	Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		1.47	1.45	-0.02	Sunny	Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.45	3.45	0.00	Cloudy	Samtse, Phuntsholing and Downstream
7	Secondary				Droyagang	7.07	4.05	4.01	-0.04		Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	4.40	4.44	0.04	Cloudy	Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	2.26	2.28	0.02	Sunny	Mo Chhu Valley and Downstream
10	Secondary				Wangdue Bridge		3.25	3.15	-0.10		PHPA I,PHPA II and Downstream
11	Principal	Basin II	Punatshang	Punatshang Chhu	Wangdue Rapid	7.82	3.78	3.65	-0.13		THE CAN THE CONTROL OF THE CONTROL O
12	Principal	busiii ii	Chhu		Turitar Sunkosh	6.68	3.95	3.65	-0.30	Cloudy	Downstream of Dagana and Lhamoizingkha
13	Secondary	I			Sunkosh Bridge		3.00	2.75	-0.25	Cloudy	Sownation of Sugaria and Entiroteing and
14	Principal				Kerabari	11.90	6.15	6.05	-0.1	Cloudy	Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.45	4.45	0.00	Cloudy	Gelelephu Valley and Downstream
16	Principal				Bjizam	5.35	2.94	3.32	0.38	Cloudy	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary			Mangdue Chhu	Dakpai Chhu	2.26	1.50	1.56	0.06	Sunny	Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	4.27	4.35	0.08	Jumy	
19	Principal			Chamkhar Chhu -	Kurjey	4.00	2.52	2.74	0.22	Sunny	Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.30	2.56	0.26		Zhemgang and Downstream
21	Principal				Sumpa	7.65	5.05	5.74	0.69	Sunny	Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu
22	Secondary			Kuri Chhu	Khoma	5.30	2.40	2.70	0.30		
23	Secondary				Autsho	8.48	5.05	5.95	0.9	Cloudy and Clear	Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	9.35	10.50	1.15	Sunny	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	2.85	2.85	0	Sunny	Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary				Doksum		4.56	4.45	-0.11	Sunny	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary			Drangme Chhu	Chazam		9.80	9.70	-0.10	Cloudy	Downstream Settlement of Kuri-Gongri and Panbang
28	Principal				Ozorong	6.75	3.22	3.36	0.14	Sunny	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.7	1.85	0.15		
30	Principal				Panbang	12.48	7.35	7.63	0.28	Sunny	Manas and Downstream
31	Principal			Ngara Ama Chhu	Pangzam		7.00	6.90	-0.10		Bangtar Settlement and Downstream
32	Principal				Bangtar		3.20	3.00	-0.20	Sunny	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