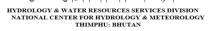


ढ़ॱ८ध८:ऱ्याःचः८८:छेदःस्यःभ्रेटःबचयःध्याःश्चेःक्या क्वितार्ल्स्स.क्र.रश्रर्भराम्बन्धास्त्रीस्त्रास्त्राक्षेत्रा





Status and River Level Trends:

Sunday, July 28, 2019

Issued at: 10:00 AM

33 km

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				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-				
2		Punatshang Chhu		Thorthormi Tsho		7.50	5.00	5.78	5.79	0.01					
3				Rapstreng Tsho		7.40	5.00	6.30	6.29	-0.01	Wangdue Valley				
4			Pho Chhu	Bay Tsho		7.40	5.00	6.43	6.46	0.03	,				
5	Basin II		hatshang Chhu Mo Chhu		Thanza		7.70	8.70	NR	NR	#VALUE!				
6	Dusin ii			Tarina Wachey		8.50	10.50	6.92	6.97	0.05	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,				
7				Dangsa		5.50	7.00	4.94	5.04	0.10	Khuruthang) Puna-Wangdue Valley and Downstream				
8				Taksemakhang		7.50	8.50	5.94	5.97	0.03					
9				Tashithang		9.00	10.50	7.65	7.71	0.06	Gasa, Mo Chhu Valley, Puna-Wangdue Valley and Downstream				
10								Yebesa		5.00	7.00	2.53	2.55	0.02	1

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

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

Cnamk	Chamkhar Chnu and Iviangdue 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 Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement
1				Tshampa		5.00	6.50	4.54	4.52	-0.02	
2			Chamkhar Chhu	Khagthang		5.50	6.00	5.12	4.97	-0.15	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	2.72	2.63	-0.09	and the state of t
4	5		Mangdue Chhu	Jongthang		5.90	7.00	NR	NR	#VALUE!	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa
5				Bjizam	5.52	4.20	5.50	3.17	3.08	-0.09	and Zhemgang

Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin							Approximate Lead Time for Evacuation of Manedue 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									
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	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				Dodena		NR	NR	#VALUE!	Sunny	Thimphu Valley and Downstream				
2	Principal			Thim Chhu u Haa Chhu Pa Chhu	Lungtenphu	2.82	1.58	1.53	-0.05	Sunny					
3	Principal		Wang Chhu		Damchu	6.00	3.23	3.30	0.07	Sunny	Chukha and Downstream				
4	Secondary	Basin I			Наа	2.60	1.42	1.46	0.04		Haa and Wang Chhu Downstream				
5	Principal				Bonday		1.67	1.77	0.10	Sunny	Downstream of Paro Valley and Wang Chhu Basin				
6	Principal			Amo Chhu	Dorokha		3.75	3.70	-0.05	Cloudy	Samtse, Phuntsholing and Downstream				
7	Secondary				Droyagang	7.07	4.62	3.99	-0.63		Phunsholing and Downstream				
8	Secondary			Pho Chhu	Samdingkha	6.10	4.55	4.75	0.20	Sunny	Puna-Wangdue Valley and Downstream				
9	Principal			Mo Chhu ng Punatshang Chhu	Yebesa	3.94	2.52	2.52	0		Mo Chhu Valley and Downstream				
10	Secondary				Wangdue Bridge		3.70	3.95	0.25	Clear Sky	PHPA I,PHPA II and Downstream				
11	Principal	Basin II	Punatshang		Wangdue Rapid	7.82	4.25	4.45	0.2	Sunny	,				
12	Principal	Dasiii ii	Chhu		Turitar Sunkosh	6.68	4.35	4.60	0.25		Downstream of Dagana and Lhamoizingkha				
13	Secondary				Sunkosh Bridge		3.50	3.70	0.20	Sunny					
14	Principal				Kerabari	11.90	6.8	6.72	-0.08		Lhamoizingkha and Downstream				
15	Secondary			Mao Chhu	Sherzhong		4.60	4.50	-0.10	Sunny	Gelelephu Valley and Downstream				
16	Principal			Mangdue Chhu Chamkhar Chhu	Bjizam	5.35	3.20	3.10	-0.10	Clear Sky	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang				
17	Secondary				Dakpai Chhu	2.26	1.59	1.56	-0.03	Sunny	Downstream of Zhmgang and Panbang				
18	Principal				Tingtibi	7.45	4.50	4.55	0.05	Junny	Sowisk call of Ellinguing and Fallouing				
19	Principal				Kurjey	4.00	2.74	2.62	-0.12	Sunny	Chamkhar Valley, Zhemgang and Downstream				
20	Principal				Shingkhar (Bemethang)		2.40	2.40	0.00		Zhemgang and Downstream				
21	Principal						Sumpa	7.65	5.50	5.35	-0.15	Sunny	Lhuntse Downstream,Kurizampa,KHPA and Downstream along the Kuri Chhu		
22	Secondary		Basin III Manas	Kuri Chhu	Khoma	5.30	2.85	2.74	-0.11	Junny	Endrese Sownad Carry, Variation pay, N. 17 and Sownad Carry along the National Carry				
23	Secondary			Kuii Ciiiu	Autsho	8.48	5.65	5.47	-0.18	Clear Sky	Kurizampa,KHPA and Downstream along the Kuri Chhu				
24	Principal	Basin III		Manas	Manas	Manas	Manas		Kurizampa	18.45	10.16	10.04	-0.12	Sunny	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	3.5	3.23	-0.27		Doksum,Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu				
26	Secondary				Doksum		5.13	5.17	0.04		Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu				
27	Secondary				Chazam		10.65	10.60	-0.05	Sunny	Downstream Settlement of Kuri-Gongri and Panbang				
28	Principal			Drangme Chhu	Ozorong	6.75	4.16	4.32	0.16	Sunny	Downstream of Kuri-Gongri and Panbang				
29	Secondary			Ngara Ama Chhu	Sheri Chhu	2.58	2.33	2.12	-0.21						
30	Principal				Panbang	12.48	8.55	7.93	-0.62	Clear Sky	Manas and Downstream				
31	Principal				Pangzam		7.25	7.25	0.00		Bangtar Settlement and Downstream				
32	Principal			3	Bangtar		3.35	3.30	-0.05		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.

ALEXT

ALARM

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

ISSUED BY: FMCR,HWRSD,NCHM