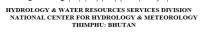


क्चितःलूटअःक्चेट्विट्यं हुष्यःक्षेत्रःवास्त्रःस्याःसदःक्षेत्रःच क्षेत्रचित्रःस्यासःत्र्यःकृतेहृषःक्षेत्रःत्रस्याः





Status and River Level Trends:

Tuesday, August 06, 2019

Issued at: 10:00 AM

Glacier Lake Outbrust Flood (GLOF) Early Warning System

1. Punatshang Chhu Sub Basin

Sl 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	6.68	6.69	0.01		
2				Thorthormi Tsho		7.50	5.00	5.86	5.88	0.02		
3				Rapstreng Tsho		7.40	5.00	6.36	6.36	0.00	Thanza,Tenchey,Lhedi and Lunana area and Downstream of Pho Chhu and Puna-Wangdue Valley	
4				Bay Tsho		7.40	5.00	6.55	6.57	0.02	· ······y	
5	Basin II	Punatshang			Thanza		7.70	8.70	NR	NR	#VALUE!	
6	Dum II	Chhu			Tarina Wachey		8.50	10.50	NR	NR	#VALUE!	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana,
7				Dangsa		5.50	7.00	5.39	5.28	-0.11	Khuruthang) Puna-Wangdue Valley and Downstream	
8				Taksemakhang		7.50	8.50	6.13	NR	#VALUE!		
9			Mo Chhu	Tashithang		9.00	10.50	NR	NR	#VALUE!	Gasa,Mo Chhu Valley,Puna-Wangdue Valley and Downstream	
10				Yebesa		5.00	7.00	3.25	2.90	-0.35		

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	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		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	recorded at 9	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Settlement
1			Chamkhar Chhu	Tshampa		5.00	6.50	4.70	NR	#VALUE!	Chokortoe Pry School, Kurjey Village, Wangdicholing, Chamkhar Town, Gangrithng Pry School, Gwelkhar Village and Downstream settlement under Zhemgang.
2				Khagthang		5.50	6.00	5.33	NR	#VALUE!	
3	Basin III	Manas		Kurjey	5.72	3.30	5.00	2.86	2.92	0.06	
4			Mangdue Chhu	Jongthang		5.90	7.00	NR	5.64	#VALUE!	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa
5			Mangade Chiu	Bjizam	5.52	4.20	5.50	3.84	3.64	-0.20	and Zhemgang

	Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin						Approximate Lead Time for Evacuation of Mangdue Chhu Sub Basin							
Appr	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							
Sl Nos		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	Cumlative	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								
	Cith DC	0.21	44.2 1	2552	94	1								

3. 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!		Thimphu Valley and Downstream
2	Principal			Thim Chhu	Lungtenphu	2.82	1.61	1.56	-0.05		¥
3	Principal				Damchu	6.00	3.30	3.45	0.15	Sunny	Chukha and Downstream
4	Secondary	Basin l	Wang Chhu	Haa Chhu	Haa	2.60	1.13	1.22	0.09	Cloudy	Haa and Wang Chhu Downstream
5	Principal			Pa Chhu	Bonday		2.02	1.88	-0.14	Sunny	Downstream of Paro Valley and Wang Chhu Basin
6	Principal			Amo Chhu	Dorokha		3.30	3.45	0.15	Partly Sunny	Samtse, Phuntsholing and Downstream
7	Secondary			Amo Cina	Droyagang	7.07	3.69	3.66	-0.03	Sunny	Phunsholing and Downstream
8	Secondary			Pho Chhu	Samdingkha	6.10	5.40	5.50	0.10	Sunny	Puna-Wangdue Valley and Downstream
9	Principal			Mo Chhu	Yebesa	3.94	3.33	3	-0.33	Sunny	Mo Chhu Valley and Downstream
10	Secondary			Punatshang Chhu	Wangdue Bridge		5.00	4.75	-0.25	Sunny	PHPA LPHPA II and Downstream
11	Principal	Basin II	Punatshang Chhu		Wangdue Rapid	7.82	5.62	5.28	-0.34	Sunny	THE PLANTAGE STREET
12	Principal	Dasiii ii	runatshang Cinu		Turitar Sunkosh	6.68	4.40	4.45	0.05	Sunny	Downstream of Dagana and Lhamoizingkha
13	Secondary				Sunkosh Bridge		3.35	3.60	0.25	Sunny	Downsteam of Dagana and Litamorzingkia
14	Principal				Kerabari	11.90	6.17	6.50	0.33	Sunny	Lhamoizingkha and Downstream
15	Secondary			Mao Chhu	Sherzhong		4.35	4.40	0.05	Sunny	Gelelephu Valley and Downstream
16	Principal				Bjizam	5.35	3.88	3.66	-0.22	Sunny	MHPA Dam, Power House and Downstream of Trongsa & Zhemgang
17	Secondary			Chamkhar Chhu S	Dakpai Chhu	2.26	1.54	1.50	-0.04	Sunny	Downstream of Zhmgang and Panbang
18	Principal				Tingtibi	7.45	5.13	4.72	-0.41		Downstream of Zinngang and Fandang
19	Principal				Kurjey	4.00	2.86	2.93	0.07	Sunny	Chamkhar Valley, Zhemgang and Downstream
20	Principal				Shingkhar (Bemethang)		2.83	2.70	-0.13		Zhemgang and Downstream
21	Principal				Sumpa	7.65	6.00	5.55	-0.45	Sunny	Lhuntse Downstream, Kurizampa, KHPA and Downstream along the Kuri Chhu
22	Secondary			Kuri Chhu	Khoma	5.30	3.05	2.70	-0.35	,	Entance Downsteam, team and a pownsteam arong the team canal
23	Secondary				Autsho	8.48	6.2	5.6	-0.6	Clear Sky	Kurizampa,KHPA and Downstream along the Kuri Chhu
24	Principal	Basin III	Manas		Kurizampa	18.45	10.72	10.15	-0.57	Sunny	KHPA and Downstream along the Kuri Chhu
25	Principal			Kholong Chhu	Muktirap	6.00	3.25	3.2	-0.05	Clear Sky	Doksum, Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
26	Secondary			·	Doksum		4.54	4.72	0.18	Sunny	Kholong Chhu Hydro Power Project and Downstream of Gongri Chhu
27	Secondary				Chazam		10.20	10.40	0.20	Sunny	Downstream Settlement of Kuri-Gongri and Panbang
28	Principal			Drangme Chhu	Ozorong	6.75	3.80	3.85	0.05	Sunny	Downstream of Kuri-Gongri and Panbang
29	Secondary				Sheri Chhu	2.58	1.69	1.80	0.11	Jumy	DOWNSELLING TORS AND LABOURG
30	Principal			1	Panbang	12.48	7.70	7.39	-0.31	Sunny	Manas and Downstream
31	Principal			Ngara Ama Chhu	Pangzam		6.50	6.45	-0.05	Sunny	Bangtar Settlement and Downstream
32	Principal				Bangtar		2.86	2.80	-0.06	Sunny	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