

ড়ৢ৻ঀ৶৻ৼৢ৻৸৻য়৻ঀৼড়৻ঢ়য়ৢঀ৻য়ৢঀ৻৸৻ঢ়ৢ৻৸৻য়৻ড়ৢ৻৸ ড়ৢ৻ঀয়৻ৼয়৻ড়৻ঀয়৻৸৻ঢ়য়য়য়য়৸৸ৼয়ঀ৻৸৻ঢ়ৢয়৻য়

HYDROLOGY & WATER RESOURCES SERVICES DIVISION NATIONAL CENTER FOR HYDROLOGY & METEOROLOGY THIMPHU: BHUTAN



Status and River Level Trends: Glacier Lake Outbrust Flood (GLOF) Early Warning System

Sunday, May 18, 2025

Issued at: 10:00 AM

1. Punatshang Chhu Sub Basin

SI No.	River Basin Number	Basin Name	Name of River	Station Name	Highest Water Level Recorded	Alert Water Level	Alarm Water Level	Water Level (m) recorded at 9:00 AM Yesterday	Water Level (m) recorded at 9:00 AM Today		Downstream Areas Coverage	
1			Pho Chhu	Luggay Tsho		7.80	10.00	6.35	6.34	-0.01	Thanza, Tenchey, Lhadi, Lunana area and downstream of Pho-Chu and Puna-Wangdue Valley.	
2				Thorthormi Tsho		7.50	5.00	5.34	5.33	-0.01		
3				Rapstreng Tsho		7.40	5.00	6.21	6.21	0.00		
4				Bay Tsho		7.40	5.00	NR	NR	#VALUE!		
5		Punatshang		Thanza		7.70	8.70	6.42	6.41	-0.01		
6		Chhu			Tarina Wachey		8.50	10.50	6.35	6.33	-0.02	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana, Khuruthang)
7				Dangsa		5.50	7.00	4.01	3.86	-0.15	Puna-Wangdue Valley and Downstream	
8				Taksemakhang		7.50	8.50	NR	NR	#VALUE!		
9			Mo Chhu	Tashithang		9.00	10.50	5.61	5.37 -0.24 Gasa, Mo Chhu Valley, Puna-Wangdue Valley and Downstre	Gasa, Mo Chhu Valley, Puna-Wangdue Valley and Downstream		
10				Yebesa		5.00	7.00	1.71	1.63	-0.08		

	Approximate Lea	ad Time for Eva	ecuation after th	he detection of flo	od at Four lake Se	nsor	Approximate Lead Time for Evacuation after the detection of flood at 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 minutes	2	Samdingkha	12.0 km	55 minutes	55 minutes	
3	Tshojo	8.1 km	10.0 km	10.5 km	13.8 km		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.

44.2 km

1.7 km 45.9 km

0.3km

6 Gangrithang PS 7 Gyelkhar 2552 m

2538 m

84 minutes

2. Chan	2. Chamkhar Chhu and Mangdue Chhu Sub Basin											
Sl No.	River Basin Number	Basin Name	Name of River	Station Name	Highest Water Level Recorded (m)	Alert Water Level (m)	Alarm Water Level (m)		Water Level (m) recorded at 9:00 AM Today		Downstream Areas Coverage	
1			Manas Chamkhar Chhu Mangdue Chhu		Tsampa		5.00	6.50	3.61	3.59	-0.02	Children Dissertated Verlander Warter Children Charles Toron Consistence
2					Khagthang		5.50	6.00	4.18	4.18	0.00	Chokhortoe Primary School, Kurjey Valley, Wangdue Choling, Chamkhar Town, Gangrithang Primary School, Gyelkhar Village and downstream settlement under Zhemgang.
3	Basin III Mana	Manas		Kurjey	5.72	3.30	5.00	1.90	1.80	-0.10		
4				Jongthang		5.90	7.00	3.28	3.31	0.03	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa and	
5				Bjizam	5.60	4.20	5.50	2.43	2.41	-0.02	Zhemgang	

						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.Dista nce from the Tshampa AWLS		Elevation	Approx. Lead Time	SI Nos	Name of Place Downstream	Approx.Distanc e from the Jongthang AWLS	Approx. Cumlative Distance from Jongthang 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	l km	43.9 km	2562 m	83 minutes	1					
						1					