

## **ढ़**ॱॸॖऺॷॸ॔ॱॸऀॺऻॱॺॱॸ॔ॸॱक़ॖढ़ऀॱॺॕक़ॱऄॗॸॱॿॸॺॱॸॕॖॺऻॱॺ॓ॱॺ॔ॺऻ मुल र्लेट्य सुन्धुन्द्र न्यावयः ग्वीय देण प्रते हो चा

## HYDROLOGY & WATER RESOURCES SERVICES DIVISION NATIONAL CENTER FOR HYDROLOGY & METEOROLOGY

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

Tuesday, September 16, 2025

## 1. Punatshang Chhu Sub Basin

Sl 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	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Areas Coverage													
1			Thortt   Rapst	Luggay Tsho		7.80	10.00	6.67	6.67	0.00	Thanza, Tenchey, Lhadi, Lunana area and downstream of Pho-Chu and Puna-Wangdue Valley.													
2				Thorthormi Tsho		7.50	5.00	5.63	5.65	0.02														
3				Rapstreng Tsho		7.40	5.00	6.31	6.32	0.01														
4				Bay Tsho		7.40	5.00	NR	NR	#VALUE!														
5	Basin II	Punatshang			Thanza		7.70	8.70	6.77	6.80	0.03													
6	Basiii ii	Chhu			_ [		Ì										l	Tarina Wachey		8.50	10.50	6.75	6.77	0.02
7				Dangsa		5.50	7.00	4.50	4.43	-0.07	Puna-Wangdue Valley and Downstream													
8			Mo Chhu Tash	Taksemakhang		7.50	8.50	5.70	NR	#VALUE!														
9				Tashithang		9.00	10.50	7.17	7.09	-0.08	Gasa, Mo Chhu Valley, Puna-Wangdue Valley and Downstream													
10				Yebesa		5.00	7.00	2.42	2.41	-0.01														

	Approximate Lea	d Time for Eva	cuation after tl	he detection of flo	od at Four lake Se	ensor	Approximate Lead Time for Evacuation after the detection of flood at Dangsa Sensor					
Sl Nos	Name of Place Downstream	Approx. Distance from Sensor (Bay Tsho)	Approx. Distance from Sensor (Rapstreng Tsho)	Approx. Distance from Sensor (Thorthormi 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

	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 Yesterday	Water Level	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Areas Coverage	
1			as Chamkhar Chhu Khagth  Mangdue Jongth		Tsampa		5.00	6.50	4.57	4.58	0.01	
2				Khagthang		5.50	6.00	4.97	5.02	0.05	Chokhortoe Primary School, Kurjey Valley, Wangdue Choling, Chamkhar Town, Gangrithang Primary School, Gyelkhar Village and downstream settlement under Zhemgang.	
3	Basin III	Manas		Kurjey	5.72	3.30	5.00	2.60	2.68	0.08	Timaly sensor, escalar vinage and downsacan sentencia and extensions.	
4				Jongthang		5.90	7.00	4.76	4.84	0.08	Bjizam Community, MHPA Dam, Power House and Downstream settlement of Trongsa and	
5				Bjizam	5.60	4.20	5.50	3.38	3.52	0.14	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	Approx. Cumlative Distance from 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	1 km	43.9 km	2562 m	83 minutes								
6	Gangrithang PS	0.3km	44.2 km	2552 m	84 minutes								
7	Gyelkhar	1.7 km	45.9 km	2538 m	91 minutes								