ཆུ་དཔྱད་རིག་པ་དང་ཆུའི་ཐོན་རྩྭེད་ཞབས་ཏོག་སྡེ་ཚན།

རྒྱལ་ཡོངས་ཆུ་དཔྱད་དང་གནམ་གཤིས་རིག་པའི་ལྷན་ཁང།

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

24 April, 2026

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 (m) recorded at 9:00 AM Today	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Areas Coverage
1	Basin ll	Punatshang Chhu	Pho Chhu	Luggay Tsho		7.80	10.00	6.27	6.27	0.00	Thanza, Tenchey, Lhadi, Lunana area and downstream of Pho-Chu and Puna-Wangdue Valley.
2				Thorthormi Tsho		7.50	5.00	5.75	5.76	0.01	
3				Rapstreng Tsho		7.40	5.00	6.14	6.14	0.00	
4				Bay Tsho		7.40	5.00	NR	NR	#VALUE!	
5				Thanza		7.70	8.70	6.30	6.31	0.01	
6				Tarina Wachey		8.50	10.50	6.05	6.09	0.04	Pho Chhu Valley (Tamidamchu, Wolathang, Samidingkha, Khawajara, Shengana, Khuruthang) Puna-Wangdue Valley and Downstream
7				Dangsa		5.50	7.00	3.49	3.59	0.10	
8			Mo Chhu	Taksemakhang		7.50	8.50	5.00	5.00	0.00	Gasa, Mo Chhu Valley,Puna-Wangdue Valley and Downstream
9				Tashithang		9.00	10.50	4.56	4.75	0.19	
10				Yebesa		5.00	7.00	1.27	1.35	0.08	

Approximate Lead Time for Evacuation after the detection of flood at Four lake 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. Distance from Sensor (Luggey Tsho)	Approx. Tme available for Evacuation
1	Thanza	1.5 km	2.8 km	3.3 km	6.7 km	20-60 minutes
2	Tenchey	2.9 km	4.1 km	4.6 km	8.2 km	
3	Tshojo	8.1 km	10.0 km	10.5 km	13.8 km	
4	Lhedi	16.7 km	17.6 km	18.5 km	21.8 km	
5	Puna-Wangdue Valley	100 km	100 km	100 km	100 km	5-7 hours

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. Time for Flood to reach at the Place	Approx. Tme available for Evacuation
1	Wolathang	5.8 km	30 minutes	30 minutes
2	Samdingkha	12.0 km	55 minutes	55 minutes
3	Punakha Dzong	20 km	90 minutes	1 hours 30 minutes
4	Khuruthang Town	24 km	120 minutes	2 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

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 (m) recorded at 9:00 AM Today	Water Level Rise (+)/Fall (-) in meters during last 24 Hrs ending at 9 AM Today	Downstream Areas Coverage
1	Basin lll	Manas	Chamkhar Chhu	Tsampa		5.00	6.50	3.52	3.53	0.01	Chokhortoe Primary School, Kurjey Valley, Wangdue Choling, Chamkhar Town, Gangrithang Primary School, Gyelkhar Village and downstream settlement under Zhemgang.
2				Khagthang		5.50	6.00	4.27	4.29	0.02	
3				Kurjey	5.72	3.30	5.00	1.63	1.70	0.07	
4			Mangdue Chhu	Jongthang		5.90	7.00	4.19	4.19	0.00	Bjizam Community,MHPA Dam, Power House and Downstream settlement of Trongsa and Zhemgang
5				Bjizam	5.60	4.20	5.50	2.25	2.31	0.06	

Approximate Lead Time for Evacuation of Chamkhar Chhu Sub Basin
Approximate Lead Time for Evacuation after the detection of Flood at the Tshampa AWLS

Sl 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
2	Chorkhor Toe PS	4.5 km	24.8 km	2904 m	34 minutes
3	Kurjey	12.4 km	37.2 km	2771 m	60 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

Sl Nos	Name of Place Downstream	Approx.Distance from the Jongthang AWLS	Approx. Cumlative Distance from Jongthang AWLS	Elevation	Approx. Lead Time
1	Bjizam	18.5 km	18.5 km	2223 m	34 minutes
2	Dam Site	7.8 km	26.3 km	1848 m	50 minutes
3	Power Plant	20.4 km	46.7 km	1024 m	88 minutes