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National Center for Hydrology and Meteorology Thimphu: Bhutan



FLOOD OUTLOOK #43

Issue date: 20th June, 2019.

Time: 12 Mid-night (valid till the next issuance)

1. WEATHER FORECAST:

According to weather forecast for the next 24 hours issued at 1600 hours on 20th June, 2019:

The weather conditions over the country is likely to be mostly cloudy with light rain at isolated places accompanied by thunderstorms over the southern and eastern parts of the country.

2. OBSERVATION AND MONITORING at THORTHORMI LAKE

The rise in water level was detected by the Thorthormi GLOF EWS remote monitoring station and was reported to Flood Monitoring and Command Room at 1900 hours (07:00PM) on June 20, 2019. The water level increased from 6.55m at 18:05 to 8.04m at 19:20 and receded to 5.36m at 22:40. The water level first increased and receded below normal that is a typical GLOF scenario as per our GLOF EWS System logic.

With this situation, NCHM has intensified the monitoring of the situation. The field observers stationed at Thanza (Lunana) were deputed for field verification and reported that subsidiary lakes 2 (as shown in fig 1 below) were fully drained out at 12.08AM, June 21.

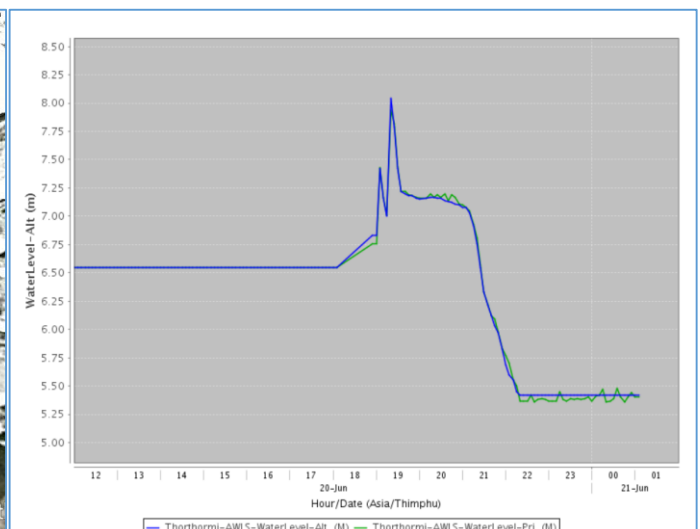
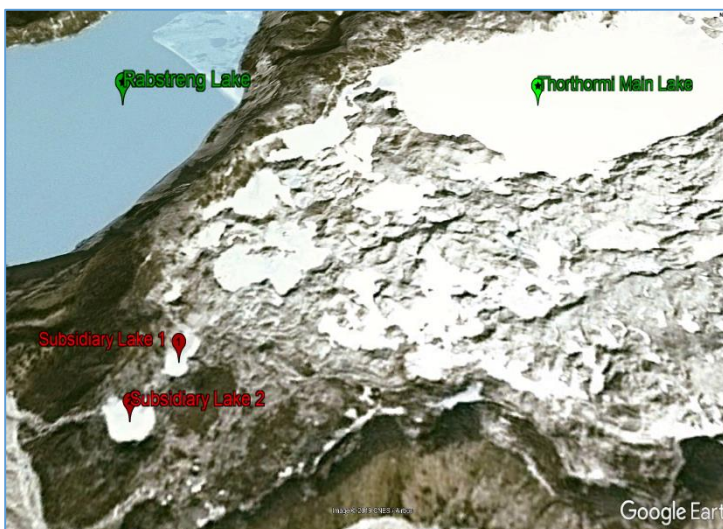


Figure 1: Location of subsidiary lakes 1 and 2

Figure 2: Hydrograph from Thorthormi Station

As reported by the field observers, there was no rain today.



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3. GLACIER LAKE OUTBURST FLOOD (GLOF) EARLY WARNING SYSTEM:

The GLOF EWS remote stations downstream viz. Thanza AWLS also detected a slight rise in water level even though no significant rise was noticed at Dangsa AWLS. This shows that the volume of water discharged was not significant enough to cause any downstream flooding.

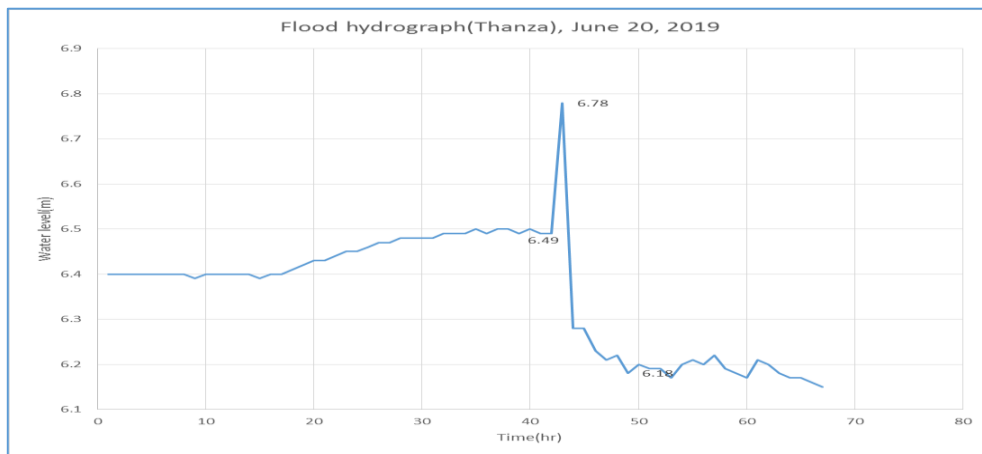


Figure 3: Flood hydrograph (Thanza)

4. IMPACT/ADVISORY:

Due to the breaching of two subsidiary lakes, the stability of moraine dam of the main Thorthormi Lake is likely to be more uncertain. Therefore, people living along the Phochu River and downstream are requested to be vigilant.

As of now, we are closely monitoring the situation and if there are any significant changes, all the stakeholders will be duely informed.

The daily flood level is updated on our website: www.nchm.gov.bt and Facebook: <https://www.facebook.com/NationalCenterforHydrologyandMeteorology/>

For further information contact Flood Monitoring and Command Room (FMCR), National Weather and Flood Warning Center (NWFWC), National Center for Hydrology and Meteorology (NCHM) at: Tel. 02338442, Mobile: 17128052, Email: fmcr@nchm.gov.bt

National Center for Hydrology and Meteorology (NCHM)