



NDRRMC UPDATE

Update on Alert Status and Activity of Mayon and Bulusan Volcanoes

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I. SITUATION OVERVIEW

A. ALERT STATUS OF MAYON VOLCANO

Mayon Volcano's seismic monitoring network **recorded one (1) rockfall related event** during the 24-hour observation period. Moderate emission of white steam-laden plumes that drifted west was observed. Sulfur dioxide (SO₂) emission was measured at an average of 531 tonnes/day on 30 October 2019. Ground deformation data from Precise Leveling surveys obtained on 16 – 25 July 2019 indicate a slight inflation of the edifice relative to 9 – 17 April 2019. This is consistent with recent electronic tilt data. Continuous GPS data also showed inflation of the edifice since June 2018.

Alert Level 2 currently prevails over Mayon Volcano. This means that Mayon is at a moderate level of unrest. DOST-PHIVOLCS reminds the public that sudden explosions, lava collapses, pyroclastic density currents or PDCs and ashfall can still occur and threaten areas in the upper to middle slopes of Mayon. DOST-PHIVOLCS recommends that entry into the six kilometer-radius Permanent Danger Zone or PDZ and a precautionary seven kilometer-radius Extended Danger Zone or EDZ in the south-southwest to east-northeast sector, stretching from Anoling, Camalig to Sta. Misericordia, Sto. Domingo must be strictly prohibited. People residing close to these danger areas are also advised to observe precautions associated with rockfalls, PDCs, and ashfall. Active stream/river channels and those identified as perennially lahar-prone areas on all sectors of the volcano should also be avoided especially during extreme weather conditions when there is heavy and prolonged rainfall. Civil aviation authorities must advise pilots to avoid flying close to the volcano's summit as airborne ash and ballistic fragments from sudden explosions and PDCs may pose hazards to aircraft.

B. ALERT STATUS OF BULUSAN VOLCANO

Bulusan Volcano's seismic monitoring network recorded **one (1) volcanic earthquakes during** the 24-hour observation period. **Wispy to weak emission of steam-laden plumes was observed coming from the active vents.** Ground deformation data from Precise Leveling data obtained on 20 – 28 October 2019 indicates slight inflation of the edifice relative to the 29 August – 05 September 2019 surveys. However, data recorded by Bulusan's continuous GPS network show continued deflation of the edifice since July 2018.

Alert Level 1 (abnormal) status remains in effect over Bulusan Volcano, which means that it is currently in a state of unrest probably driven by hydrothermal processes that could generate steam-driven or phreatic eruptions. Local government units and the public are reminded that entry into the 4-kilometer radius Permanent Danger Zone (PDZ) is strictly prohibited and that vigilance in the Extended Danger Zone (EDZ) must be exercised due to the increased possibilities of sudden and hazardous phreatic eruptions. Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ash from any sudden phreatic eruption can be hazardous to aircraft. Furthermore, people living within valleys and along river/stream channels especially on the southeast, southwest and northwest sector of the edifice should be vigilant against sediment-laden stream flows and lahars in the event of heavy and prolonged rainfall. DOST-PHIVOLCS is closely monitoring Bulusan Volcano's condition and any new development will be communicated to all concerned stakeholders.

II. ACTIONS TAKEN

1. NDRRM Operations Center prepared NDRRMC Advisory and Update, and disseminated the same to OCD Regional Center V through NDRRMC website in order to closely monitor the situation and take appropriate actions for any new development.
 2. Concerned NDRRMC member-agencies were provided with a copy of the Memorandum for the SND.
 3. DOST-PHIVOLCS is closely monitoring the activities of Mayon, Taal, and Bulusan Volcanoes and any new development will be relayed to all concerned.
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