



REPUBLIC OF THE PHILIPPINES  
**NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL**

National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

## **NDRRMC UPDATE**

### **Update on Alert Status and Activities of Bulusan, Kanlaon and Mayon Volcanoes**

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Source: DOST-PHIVOLCS

#### **SITUATION OVERVIEW**

##### **A. ALERT STATUS OF MAYON VOLCANO**

Mayon Volcano's seismic monitoring network **recorded two (2) volcanic earthquakes** during the past 24 hours. Weak to moderate emission of white steam-laden plumes drifting west-southwest, west-northwest and southwest occurred throughout the day. Fair crater glow from the summit could be observed at night. Sulfur dioxide (SO<sub>2</sub>) emission was measured at an average of **2,800 tonnes/day on 10 April 2018**. Medium-term deflation has been recorded by electronic tiltmeter since 20 February 2018 despite short-term episodes of inflation at the lower and middle slopes. Precise leveling data obtained on 22-29 March 2018 indicate deflation of the edifice relative to the 10-19 March 2018 surveys. However, overall ground deformation data indicate that the edifice is still inflated relative to pre-eruption baselines.

**Alert Level 2** currently prevails over Mayon Volcano. This means that Mayon is at a moderate level of unrest. DOST-PHIVOLCS reminds the public of 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 river channels and those perennially identified as lahar prone areas in the southern and eastern sectors should also be avoided especially during bad weather conditions or 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 aircrafts. DOST-PHIVOLCS is closely monitoring Mayon Volcano's activity and any new significant development will be immediately communicated to all stakeholders.

## **B. ALERT STATUS OF KANLAON VOLCANO**

Kanlaon Volcano's seismic monitoring network **did not detect any volcanic earthquake** during the past 24 hours. **Moderate emission of white steam-laden plumes that rose 400 meters from the summit before drifting northwest and southwest was observed.** Ground deformation data from continuous GPS measurements indicate a more pronounced inflation of the edifice since December 2015, signifying pressurization deep beneath the edifice. Sulfur dioxide (SO<sub>2</sub>) emission was measured at an average of **723 tonnes/day on 10 April 2018.**

**Alert Level 2** status prevails over Kanlaon Volcano, which means that the volcano is undergoing a moderate level of unrest due to probable intrusion of magma at depth that may or may not lead to a magmatic eruption. The local government units and the public are strictly reminded that entry into the 4-kilometer radius Permanent Danger Zone (PDZ) is strictly prohibited due to the further possibilities of sudden and hazardous steam-driven or phreatic eruptions. Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ejecta from any sudden phreatic eruption can be hazardous to aircraft. DOST-PHIVOLCS is closely monitoring Kanlaon Volcano's activity and any new development will be relayed to all concerned.

## **C. ALERT STATUS OF BULUSAN VOLCANO**

Bulusan Volcano's seismic monitoring network **recorded one (1) volcanic earthquakes** during the past 24 hours. Degassing at the active vents could not be observed due to thick clouds covering the summit. Precise leveling data obtained on 19 February - 01 March 2018 indicated a slight deflation of the edifice. However, pronounced inflation of the upper slopes that began on 28 December 2017 is still being recorded by electronic tiltmeter, consistent with the latest GPS results. Overall ground deformation data indicate that the edifice is still swollen or inflated relative to July 2016.

**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. NDRRMC Operations Center prepared NDRRMC Advisory and Update, and disseminated the same to OCD Regional Centers V, VI and VII 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 Bulusan, Kanlaon and Mayon Volcanoes and any new development will be relayed to all concerned.