



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

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

## **NDRRMC ADVISORY**

**TO :** CHAIRPERSON, RDRRMCs/OCDROs V, VI and VII  
**FROM :** Executive Director, NDRRMC and Administrator, OCD  
**SUBJECT :** Alert Status and Activities of Bulusan and Kanlaon Volcanoes  
**DATE :** 04 March 2018, 08:00 AM

Source: DOST-PHIVOLCS

### **SITUATION OVERVIEW**

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

Bulusan Volcano's seismic monitoring network recorded **one (1) volcanic earthquake** 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 **February 19 – March 1, 2018** indicated a slight deflation of the edifice, consistent with short-term deflationary trends in both tilt and continuous GPS data in the last quarter of 2017. However, the edifice remains slightly inflated since July 2016 based on continuous GPS data.

**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.

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

Kanlaon Volcano's seismic monitoring network recorded **two (2) volcanic earthquakes** during the past 24 hours. **Weak to moderate emission of white steam-laden plumes that rose 300 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 **626 tonnes / day on 01 March 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 MAYON VOLCANO

Mayon's activity in the past 24 hours was characterized by **relative quiescence, gravity-driven lava flow and degassing from the summit crater**. Much of the activity produced **500 meter-tall grayish ash plumes between 2:40 PM and 2:42 PM yesterday**. Between 3:09 PM and 10:02 PM, **sixty-eight (68) discrete episodes of lava fountaining** lasting four (4) to six (6) minutes have occurred, accompanied by rumbling sound. Lava fountains generated steam-laden plumes that rose 450 meters from the summit before drifting northwest and west-northwest. This was followed by a brief period of lull until the early morning, until lava fountaining signal resumed at 1:59 AM. **Three (3) episodes of lava-collapse pyroclastic density currents (PDC) were visually observed on the Miisi and Bonga-Buyuan Gullies** within 4-5 kilometers of the summit crater. At night, lava flows were observed to continue moving downslope within 3.3 kilometers, 4.5 kilometers and 1.9 kilometers from the crater on the Miisi, Bonga and Basud Gullies, respectively.

A total of **one hundred thirty-three (133) volcanic earthquakes** and **thirty (30) rockfall** events were recorded by Mayon's seismic monitoring network. Sulfur dioxide (SO<sub>2</sub>) emission was measured at an average of 1,403 tonnes/day on 02 March 2018. Deflation of the lower slopes that began on 20 February is still being recorded by electronic tilt. Nonetheless, overall electronic tilt and continuous GPS data indicate that the edifice is still swollen or inflated relative to November and October 2017, consistent with campaign Precise Leveling data acquired last week.

**Alert Level 4** still remains in effect over Mayon Volcano. The public is strongly advised to be vigilant and desist from entering the eight (8) kilometer-radius danger zone, and to be additionally vigilant against pyroclastic density currents, lahars and sediment-laden stream flows along channels draining the edifice. Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ash from any sudden eruption can be hazardous to aircraft. DOST-PHIVOLCS maintains close monitoring of Mayon Volcano and any new development will be communicated to all concerned stakeholders.

Ensure the dissemination of this NDRRMC Advisory to the local DRRMCs, TV, and radio stations in your AOR, for their information, reference and guidance.

Submit report on actions taken thereof.

**BY AUTHORITY OF THE CHAIRPERSON, NDRRMC:**

  
**USEC RICARDO B JALAD**  
Executive Director, NDRRMC and  
Administrator, OCD