



## NDRRMC ADVISORY

**TO :** CHAIRPERSON, RDRRMCs/OCDRs V, VI and VII  
**FROM :** Executive Director, NDRRMC and Administrator, OCD  
**SUBJECT :** Alert Status and Activities of Bulusan and Kanlaon Volcanoes  
**DATE :** 28 February 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. Weak emission of white steam-laden plumes that rose 50 meters from the southeast vents before drifting southwest was observed during times when the cater was visible. Precise leveling data obtained on November 20-29, 2017 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 **four (4) volcanic earthquakes during the past 24 hours**. **Degassing at the active vents could not be observed due to thick clouds covering the summit**. 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 660 tonnes/day on 27 February 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.

### C. ALERT STATUS OF MAYON VOLCANO

Mayon's condition for the past 24 hours was characterized by relative quiescence after a period of weak lava fountaining and lava effusion from the summit crater. Between 9:03 AM and 10:46 AM, two (2) discrete events of lava fountaining lasting four (4) to six (6) minutes generated steam-laden plumes that rose 800 meters from the summit before drifting west-southwest. In the evening, lava effusion from the vent was observed to continue feeding lava flows that have maintained fronts at 3.3 kilometers, 4.5 kilometers and 900 meters on the Miisi, Bonga and Basud Gullies, respectively, from the summit crater. One (1) lava-collapse event produced a pyroclastic density current (PDC) at 11:55 AM yesterday on Basud gully within 4 kilometers of the summit crater.

A total of **fifty-one (51) volcanic earthquakes and sixteen (16) rockfall events** were recorded by Mayon's seismic monitoring network. Sulfur dioxide (SO<sub>2</sub>) emission was measured at an average of 2,787 tonnes/day on 26 February 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 this week.

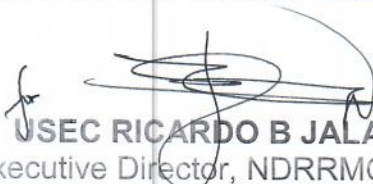
**Alert Level 4** still remains in effect over Mayon Volcano. The public is strongly advised to be vigilant and desist from entering the eight (8) kilometer-radius danger zone, and to be additionally vigilant against pyroclastic density currents, lahars and sediment-laden stream flows along channels 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