



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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SITUATION OVERVIEW

A. ALERT STATUS OF BULUSAN VOLCANO

Bulusan Volcano's seismic monitoring network recorded **four (4) volcanic earthquakes** during the past 24 hours. **Weak emission of white steam-laden plumes that drifted southwest was observed.** 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 **three (3) volcanic earthquakes** during the past 24 hours. **Moderate emission of white steam-laden plumes that rose 200 meters from the summit before drifting northeast 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 (SO₂) 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 **generally quiescence, gravity-driven lava flow and degassing from the summit crater. Two (2) events between 12:42PM and 03:23PM that lasted three (3) to four (4) minutes generated ash plumes that rose 250 meters above the summit crater before drifting southwest. At night, lava flows were observed to continue moving downslope withing 3.3 kilometers, 4.5 kilometers and 1.9 kilometers from the crater on the Miisi, Bonga and Basud Gullies, respectively.**

A total of **forty-four (44) volcanic earthquakes** and **fifty - three (53) rockfall events** were recorded by Mayon's seismic monitoring network. Sulfur dioxide (SO₂) 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 this 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.

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 facsimile and 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.