



NDRRMC ADVISORY

TO : CHAIRPERSON, RDRRMCs/OCDROs V, VI, and VII

FROM : Executive Director, NDRRMC and Administrator, OCD

SUBJECT : Alert Status and Activities of Mayon, Bulusan, and Kanlaon Volcanoes

DATE : 22 March 2018, 08:00 AM

Source: DOST-PHIVOLCS

I. SITUATION OVERVIEW

A. ALERT STATUS OF MAYON VOLCANO

Mayon's activity in the past 24 hours was characterized by general quiescence, degassing from the summit crater and gravity-driven lava flow. Weak emissions of white steam-laden plumes drifting southwest and east-southeast occurred throughout the day. Lava flows could be observed at night to be moving downslope on the Miisi, Bonga and Basud Gullies within 3.3 kilometers, 4.5 kilometers and 1.9 kilometers of the crater, respectively.

A total of **twenty four (24) rockfall events** were recorded by Mayon's seismic monitoring network. Sulfur dioxide (SO₂) emission was measured at an average of **545 tonnes/day on 21 March 2018**. Slight inflation of the lower slopes that began on 11 March is still being recorded by electronic tiltmeter, consistent with results of Precise Leveling (PL) surveys on 10 - 19 March 2018. Overall ground deformation data indicate that the edifice is still swollen or inflated relative to pre-eruption baselines.

Alert Level 3 currently prevails over Mayon Volcano. This means that although Mayon's unrest continues, there is a decreased likelihood of hazardous explosive eruption to occur. PHIVOLCS-DOST 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. PHIVOLCS-DOST 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, PDC's 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. PHIVOLCS-DOST 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 recorded **one (1) volcanic earthquake** during the past 24 hours. **Wispy to moderate emission of white steam-laden plumes that rose 400 meters from the summit before drifting southwest and northwest 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 **518 tonnes/day on 21 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 BULUSAN VOLCANO

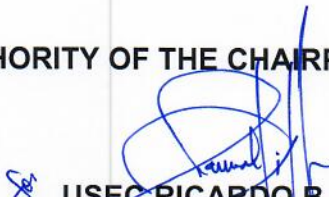
Bulusan Volcano's seismic monitoring network recorded one (1) volcanic earthquake during the past 24 hours. **Weak emission of white steam-laden plumes that rose 70 meters from the southeast vents before drifting southwest was observed.** Precise leveling data obtained on February 19 - March 1, 2018 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.

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:



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