



NDRRMC ADVISORY

TO : CHAIRPERSONS, RDRRMCs/OCDROs CALABARZON, V, VI, and VII

FROM : Executive Director, NDRRMC and Administrator, OCD

SUBJECT : Alert Status and Activity of Mayon, Kanlaon, Taal, and Bulusan Volcanoes

DATE : 28 May 2019, 8:00 AM

Source: DOST-PHIVOLCS

I. SITUATION OVERVIEW

A. ALERT STATUS OF MAYON VOLCANO

Mayon Volcano's seismic monitoring network **did not detect any volcanic earthquake** during the 24-hour observation period. Moderate emission of white steam-laden plumes that rose **450 meters** before drifting **north-northeast** was observed. Fair crater glow from the summit could be observed at night. Sulfur dioxide (SO₂) emission was measured at an average of 690 tonnes/day on 09 - 17 May 2019. Precise leveling data obtained on 09 – 17 April 2019 indicate a slight inflation of the edifice relative to 20 – 26 March 2019. This is consistent with continuous GPS data showing inflation of the edifice since June 2018.

ALERT LEVEL 2 currently prevails over Mayon Volcano. This means that Mayon is at a moderate level of unrest. DOST-PHIVOLCS reminds the public that 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 stream/river channels and those identified as perennially lahar-prone areas on all sectors of the volcano should also be avoided especially during extreme weather conditions 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.

B. ALERT STATUS OF KANLAON VOLCANO

Kanlaon Volcano's seismic monitoring network recorded **two (2)** volcanic earthquake during the 24-hour observation period. Weak emission of white steam-laden plumes that rose **500** meters before drifting **northwest** was observed. Sulfur dioxide (SO₂) emission was measured at an average of **825** tonnes/day on **27** May 2019. Ground deformation data from latest continuous GPS measurements indicate slight deflation of the edifice.

Alert Level 1 (abnormal) status prevails over Kanlaon 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. The local government units and the public are reminded to avoid entry into the 4-kilometer radius Permanent Danger Zone (PDZ) due to perennial hazards of rockfalls, avalanches, sudden outgassing and steam-driven or phreatic eruption at the summit area. 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 TAAL VOLCANO

Taal Volcano's seismic monitoring network recorded **seven (7) volcanic earthquakes** during the 24-hour observation period. Field measurements on 23 May 2019 at the eastern sector of the Main Crater Lake yielded an increase in water temperature from 32.3°C to 33°C, a decrease in water level from 0.20 meter to 0.18 meter and decrease in pH from 2.84 to 2.64. Ground deformation measurements through precise leveling surveys from 18 – 27 March 2019 indicated slight inflation of the edifice consistent with recent results from continuous GPS data.

Alert Level 1 remains in effect over Taal Volcano. This means that hazardous eruption is not imminent. The public, however, is reminded that the Main Crater should be strictly off-limits because sudden steam explosions may occur and high concentrations of toxic gases may accumulate. The northern portion of the Main Crater rim, in the vicinity of Daang Kastila Trail, may also become hazardous when steam emission along existing fissures suddenly increases. Furthermore, the public is also reminded that the entire Volcano Island is a Permanent Danger Zone (PDZ), and permanent settlement in the island is strongly not recommended.

D. ALERT STATUS OF BULUSAN VOLCANO

Bulusan Volcano's seismic monitoring network **did not detect any volcanic earthquake** during the 24-hour observation period. Wispy emission of white steam-laden plumes from the active vents was observed. Ground deformation data from latest continuous GPS measurements indicate slight inflation of the edifice.

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.

DOST-PHIVOLCS is closely monitoring the activities of the above-cited volcanoes and any new development will be relayed to all concerned.

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:



UNDERSECRETARY RICARDO B JALAD
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