
DSWD DROMIC Preparedness for Response Report #1 on the Mayon Volcano Seismic Activity

as of 08 June 2023, 6PM

I. Situation Overview

- Issued on **08 June 2023** at **12NN**, the alert level for Mayon Volcano was raised from **Alert Level 2 to Alert Level 3** which indicates that there is an increased tendency towards a hazardous eruption.
- Since the Alert Level status was raised from Alert Level 1 to Alert Level 2 on 05 June 2023, repeated collapse of the growing summit dome of Mayon Volcano has generated an increasing number and volume of rockfall events. A total of 267 rockfall events and 2 volcanic earthquakes were recorded from 05 to 08 June, compared to 54 rockfall events from 01 to 04 June 2023. These events had durations of one (1) to three (3) minutes and transported lava debris within a kilometer range of the southern upper slopes. The volume of discrete rockfall events increased on 03 June 2023 based on the seismic record, signaling an increase in the rate of dome growth. Three (3) pyroclastic density current or PDC events on the Bonga (southeast) and Basud (east) Gullies were observed on 08 June 2023 at 6:18 AM, 9:53 AM and 11:00 AM. The PDCs lasted (4) four to (5) five minutes based on the seismic record and emplaced within a kilometer of the summit crater. In contrast, SO₂ emission remains at baseline or background levels. Short-term ground deformation data from continuous GPS, electronic tilt, and EDM monitoring indicate persistent inflation of the southeastern middle and upper slopes since February 2023.
- The overall monitoring parameters indicate that very slow extrusion of shallow degassed magma is ongoing and is incrementally increasing in rate; i.e., effusive magmatic eruption is taking place.
- The raising of alert status of Mayon Volcano from Alert Level 2 to Alert Level 3 signifies that Mayon is exhibiting magmatic eruption of a summit lava dome, with increased chances of lava flows and hazardous PDCs affecting the upper to middle slopes of the volcano and of potential explosive activity within weeks or even days.
- It is therefore recommended that the 6-km radius Permanent Danger Zone (PDZ) be evacuated due to the danger of PDCs, lava flows, rockfalls and other volcanic hazards.
- Increased vigilance against pyroclastic density currents, lahars and sediment-laden streamflows along channels draining the edifice is also advised.
- 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. Based on the current prevailing wind pattern, ash fall events may most likely occur on the south side of the volcano.

Source: DOST-PHIVOLCS

II. Predictive Analytics for Humanitarian Response (PAHR)

A total of **15,539 families** in **30 barangays** in **Region V** lying within the **6-kilometer (km) Permanent Danger Zone (PDZ)** are at high risk of Mayon volcano's eruption. A massive eruption would directly affect **182,283 families** spanning nine (9) municipalities in the Province of Albay (see Table 1).

Figure 1. Potential areas exposed within the six (6) kilometer-radius Permanent Danger Zone (PDZ)

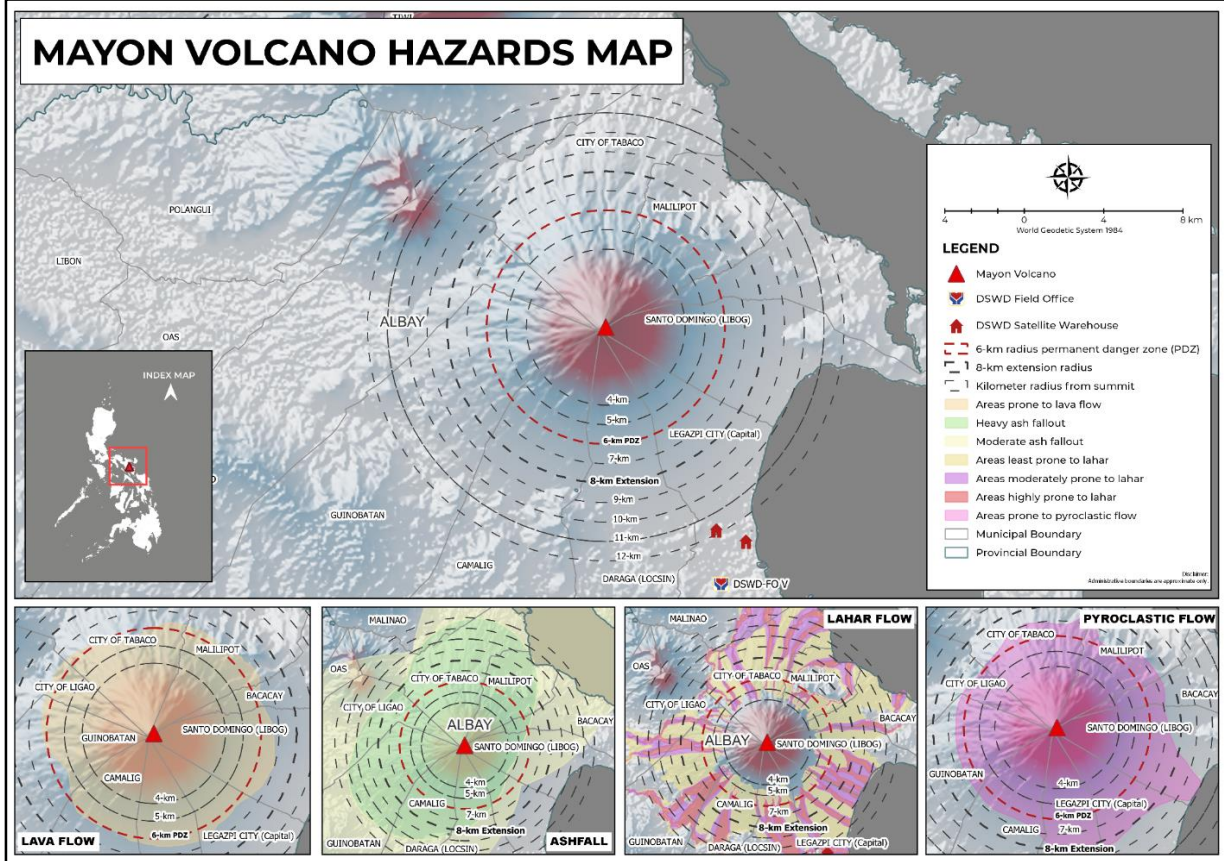


Table 1. FFP Requirement based on the PAHR Results

MUNICIPALITY	6-KM PDZ (PSA 2020)		TOTAL POPULATION (PSA 2020)		TOTAL FFPs PREPOSITIONED ¹
	BARANGAYS	FFP REQUIREMENT ²	BARANGAYS	FFP REQUIREMENT	
TOTAL	30	15,539	417	182,283	80,278
Bacacay	1	1,600	56	14,497	
Camalig	4	1,474	50	14,408	
City of Ligao	1	322	55	23,619	
City of Tabaco	5	2,855	47	28,192	
Daraga	1	224	54	26,779	
Guinobatan	4	1,951	44	17,157	
Legazpi City	5	2,733	70	41,907	

¹ Prepositioned FFPs in DSWD-FO V as of 08 June 2023, 4PM

² Number of family composed of five (5) members

MUNICIPALITY	6-KM PDZ (PSA 2020)		TOTAL POPULATION (PSA 2020)		TOTAL FFPs PREPOSITIONED ¹
	BARANGAYS	FFP REQUIREMENT ²	BARANGAYS	FFP REQUIREMENT	
Malilipot	5	2,113	18	8,171	
Santo Domingo	4	2,267	23	7,553	

III. Response Actions and Interventions

a. Standby Funds and Prepositioned Relief Stockpile

OFFICE	STANDBY FUNDS	STOCKPILE			TOTAL STANDBY FUNDS & STOCKPILE
		FAMILY FOOD PACKS		OTHER FOOD AND NON-FOOD ITEMS (FNIs)	
		QUANTITY	TOTAL COST		
TOTAL	217,590,518.52	1,076,282	657,927,942.23	1,035,812,695.86	1,911,331,156.61
DSWD CO	144,789,525.45		-	-	144,789,525.45
NRLMB NROC	-	109,318	65,150,260.23	224,675,322.96	289,825,583.19
NRLMB VDRC	-	73,542	52,397,960.48	35,917,351.41	88,315,311.89
DSWD FO V	5,000,000.00	80,278	49,933,836.66	45,835,866.45	100,769,703.11
Other FOs	67,800,993.07	813,144	490,445,884.86	729,384,155.04	1,287,631,032.97

Note: The Inventory Summary is as of 08 June 2023, 4PM.

Sources: DSWD-DRMB and DSWD-NRLMB

1. Standby Funds

- ₱144.79 million Quick Response Fund (QRF) at the DSWD Central Office.
- ₱5 million available at DSWD FO V.
- ₱67.8 million in other DSWD FOs which may support the relief needs in affected areas due to Mayon Volcano seismic activity through inter-FO augmentation.

2. Prepositioned FFPs and Other Relief Items

- 182,860 FFPs available in Disaster Response Centers; of which, 109,318 FFPs are at the National Resource Operations Center (NROC), Pasay City and 73,542 FFPs are at the Visayas Disaster Resource Center (VDRC), Mandaue City.
- 80,278 FFPs available at DSWD FO V.
- 813,144 FFPs in other DSWD FOs which may support the relief needs in affected areas due to Mayon Volcano seismic activity through inter-FO augmentation.
- ₱1.04 billion worth of other FNIs at NROC, VDRC, and DSWD FO warehouses.

b. Other Activities

DSWD-DRMB

DATE	SITUATIONS / ACTIONS UNDERTAKEN
08 June 2023	<ul style="list-style-type: none"> • The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DRMB monitors and closely coordinates with DSWD FO V for significant updates on the preparedness measures and actions taken.

DSWD-NRLMB

DATE	SITUATIONS / ACTIONS UNDERTAKEN
08 June 2023	<ul style="list-style-type: none"> • DSWD-NRLMB continuously conducts repacking of relief goods for possible augmentation.

DSWD FO V

DATE	SITUATIONS / ACTIONS UNDERTAKEN
08 June 2023	<ul style="list-style-type: none"> ● DSWD FO V continuously coordinates with the Provincial Government of Albay through its Provincial Disaster Risk Reduction and Management Office (PDRRMO) and Albay Public Safety and Emergency Management Office (APSEMO) for significant updates. ● DSWD FO V through its DRMD continuously monitors the situation and coordinates with other partners for other essential information. ● DSWD FO V through its Disaster Response Management Division (DRMD) led a meeting with the City and Municipal Action team leaders and members to discuss on the preparedness for response actions relative to the potential impacts of the ongoing unrest activities of the Mayon Volcano. ● DSWD FO V activated its Quick Response Team – Social Welfare and Development Team (SWADT) in Albay. ● DSWD FO V led the monitoring of the delivery of 21,000 FFPs from DSWD-NRLMB to DSWD FO V new warehouse in Camalig, Albay. ● DSWD FO V facilitated the identification of additional warehouses for prepositioning of FNIs. ● DSWD FO V inspected 115 evacuation centers in preparation for any possible evacuation. ● The Regional Resource Operations Section (RROS) of DSWD FO V ensured the availability of FFPs and NFIs as need arises.

The Disaster Response Operations Monitoring and Information Center (DROMIC) of DSWD-DRMB is closely coordinating with DSWD FO V for significant preparedness for response updates and technical assistance needed.

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