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## DSWD-DROMIC Preparedness for Response Report #4 on the Kanlaon Volcano Seismic Activity as of 05 July 2022, 6AM

### I. Brief Background on Kanlaon Volcano

- A stratovolcano (conical volcano built-up by many layers of hardened lava and tephra);
- Mount Kanlaon spans the provinces of Negros Occidental (Western Visayas) and Negros Oriental (Central Visayas), and is approximately 30 kilometers southeast of Bacolod City, the capital and most populous city of the former province in Region VI. It ranks 27<sup>th</sup> on the country's highest peaks and 42<sup>nd</sup> on an island in the world;<sup>1</sup>
- Its last eruption was reported on 20 December 2017 characterized by small volcanic earthquakes with moderate emissions of white steam-laden plumes that rose to 400 meters from the summit; and,<sup>2</sup>
- Areas under the four (4)-kilometer permanent danger zones are thirteen (13) barangays of Canlaon City (Lumapao, Malaiba, Masulog and Pula), La Castellana (Biaknabato, Cabagnaan, Mansalanao and Sag-Ang), La Carlota City (Ara-al, and Yubo), Bago City (Ilijan and Mailum), and San Carlos City with a combined population count of 76,656. A massive eruption may directly affect a total of 528,838<sup>3</sup> persons covering all barangays of the said one (1) municipality and four (4) cities.

### II. Situation Overview<sup>4</sup>

- Kanlaon Volcano is at **Alert Level 1, which means that it is at low-level unrest;**
- A total of forty-one (41) volcanic earthquakes around the summit area were recorded since 5 AM of June 30, 2022, by the Kanlaon Volcano Network (KVN). These included seven (7) very shallow tornillo signals that could be associated with volcanic gas movement along with the fractures within the upper volcanic slopes;
- Ground deformation data from continuous Global Positioning System (GPS) measurements indicate short-term slight inflation of the lower and mid slopes since January 2022, consistent with continuous electronic tilt recording of inflation of southeastern flanks since mid of March 2022;

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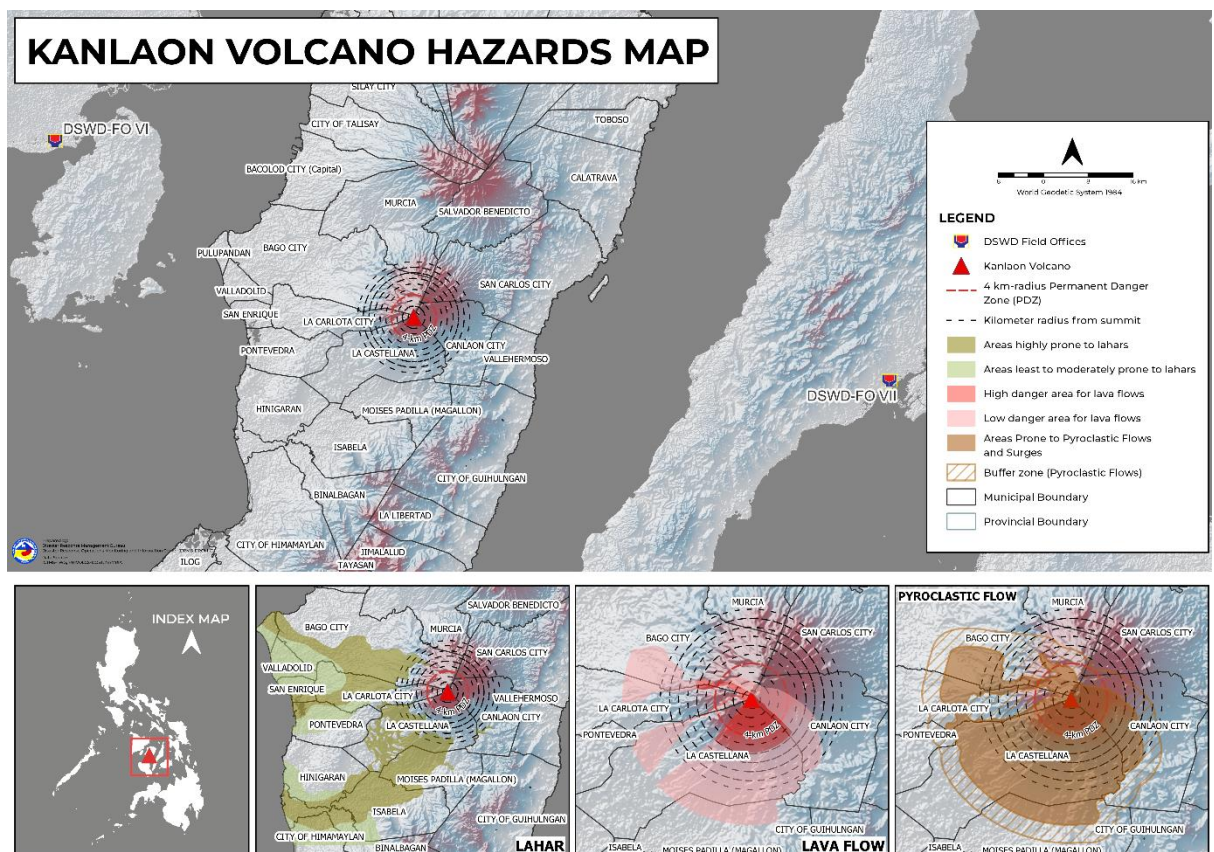
<sup>1</sup> Wikipedia.

<sup>2</sup> Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST-PHIVOLCS).

<sup>3</sup> Philippine Statistics Authority (PSA), May 2020.

<sup>4</sup> Based on the latest DOST-PHIVOLCS Advisory issued on 04 July 2022, 5AM.

- The increased seismic activity and short-term ground deformation are likely caused by shallow hydrothermal processes beneath the edifice that could generate phreatic or steam-driven eruptions from the summit crater;
- The local government units (LGUs) and the public are strongly 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; and,
- DOST-PHIVOLCS is closely monitoring Kanlaon Volcano's activity and any new development will be relayed to all concerned.



### 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		
<b>TOTAL</b>	<b>625,241,540.63</b>	<b>537,618</b>	<b>334,028,835.88</b>	<b>646,949,677.19</b>	<b>1,606,220,053.70</b>
DSWD CO	548,378,151.49	-	-	-	548,378,151.49
NRLMB NROC	-	100,764	65,356,120.00	109,612,433.36	174,968,553.36
VDRC	-	51,729	32,729,910.00	47,584,005.80	80,313,915.80
DSWD FO VI	5,000,000.00	29,891	14,672,592.00	30,476,866.78	50,149,458.78
DSWD FO VII	5,000,000.00	8,675	4,944,750.00	16,492,982.13	26,437,732.13
Other FOs	66,863,389.14	346,559	216,325,463.88	442,783,389.12	725,972,242.14

Note: The Inventory Summary is as of 04 July 2022, 10 PM.

Sources: DRMB and NRLMB

#### b. Standby Funds

- ₱548.38 million QRF at the DSWD-Central Office.
- ₱10.00 million available at DSWD-FOs VI and VII at ₱5 million each.
- ₱66.86 million in other DSWD-FOs which may support the relief needs through inter-FO augmentation.

#### c. Prepositioned FFPs and Other Relief Items

- Total of 152,493 FFPs available in the Disaster Response Centers; of which, 100,764 FFPs are at NROC, Pasay City and 51,729 FFPs are at the VDRC, Mandaue City.
- 38,566 FFPs are available at DSWD FO VI and VII.
- 346,559 FFPs in other DSWD FOs which may support the relief needs through inter-FO augmentation.
- ₱646.95 million worth of other food and non-food items (FNIs) at NROC, VDRC and DSWD-FO warehouses countrywide.

#### d. Activities Undertaken

- **DSWD-DRMB:**

DATE	SITUATIONS / ACTIONS UNDERTAKEN
05 July 2022	<ul style="list-style-type: none"> <li>• The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DRMB is virtually monitoring and closely coordinating with concerned DSWD Field Offices for significant updates on preparedness measures and actions taken.</li> </ul>

- **DSWD-FO VI**

DATE	SITUATIONS / ACTIONS UNDERTAKEN
03 July 2022	<ul style="list-style-type: none"> <li>• Coordination with the City Social Welfare and Development Office (CSWDO) of Himamaylan, Talisay and Bago City for additional prepositioning of goods.</li> </ul>

	<ul style="list-style-type: none"> <li>• Close monitoring with PHIVOLCs and concerned LGUs for any displacement of families and needs for support through the Quick Response Teams (QRTs) and Action Teams deployed at the local level.</li> </ul>
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- **DSWD-FO VII**

DATE	SITUATIONS / ACTIONS UNDERTAKEN
03 July 2022	<ul style="list-style-type: none"> <li>• Close monitoring with PHIVOLCS and concerned Local Disaster Risk Reduction and Management Councils (LDRRMCs) for any displacement of affected families and needs for support through the FOs' Quick Response Teams (QRTs) and Negros Oriental Provincial and Canlaon City Action Teams.</li> </ul>

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

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