



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

### Situational Report No. 39 re Taal Volcano Eruption

Releasing Officer:

  
**UNDERSECRETARY RICARDO B JALAD**  
Executive Director, NDRRMC and  
Administrator, OCD

**DATE : 24 January 2020, 6:00 PM**

Sources: DOST-PHIVOLCS, DOST-PAGASA, DILG, MIAA, BFP, AFP, PCG, PNP, DPWH, DOH, DepEd, PRC and OCD ROs III, CALABARZON, MIMAROPA, and NCR

#### **I. SITUATION OVERVIEW**

##### **24 January 2020, 5:00 PM**

Since 8:00 AM, Taal Volcano exhibited weak to moderate emission of steam plumes 100 to 800 meters high.

**Alert Level 4** still remains in effect over Taal Volcano. This means that hazardous explosive eruption is possible within hours to days. DOST-PHIVOLCS strongly reiterates total evacuation of Taal Volcano Island and high-risk areas as identified in the hazard maps within the 14-km radius from Taal Main Crater and along the Pansipit River Valley where fissuring has been observed. Based on PAGASA wind forecast, if the eruption plume remains below 5 km, ash will be drifted to the municipalities west and northwest of the Main Crater; however, if a major eruption occurs during the day and the eruption column exceeds 7 km, ash will also be drifted over some parts of Laguna and Quezon provinces. Residents around the volcano are advised to guard against the effects of heavy and prolonged ashfall. Civil aviation authorities must advise pilots to avoid the airspace around Taal Volcano as airborne ash and ballistic fragments from the eruption column pose hazards to aircraft. DOST-PHIVOLCS is continually monitoring the eruption and will update all stakeholders of further developments.

#### **A. Volcanic Earthquake**

Source: DOST-PHIVOLCS

The Philippine Seismic Network (PSN) plotted a total of **741 volcanic earthquakes** as of 24 January 2020, **4:00 PM**. 176 of these registered at magnitudes 1.2 – 4.1 and were felt at Intensities I – V.

Note: Previously reported 950 volcanic earthquakes plotted were based from Taal Volcano Network (TVN) which can record small earthquakes undetectable by PSN

#### **B. 3-Day Wind Forecast for Taal Volcano (24 January 2020, 5:00 PM – 26 January 2020, 5:00 PM)**

Source: DOST-PAGASA NCR-PRSD

Batangas, Cavite, and Laguna will have partly cloudy to cloudy skies with isolated light rains.

| HEIGHT<br>(Above Sea Level) | 3-Day Forecast Wind Profile           |                                       |                                       |
|-----------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
|                             | 24 January 2020                       | 25 January 2020                       | 26 January 2020                       |
| 1.5 km                      | 25-50 kph from the East to Southeast  | 25-50 kph from the Southeast to South | 15-30 kph from the South to Southwest |
| 3.0 km                      | 15-35 kph from the Southeast          | 10-25 kph from the Southeast to South | 10-25 kph from the South to Southwest |
| 5.0 km                      | 15-35 kph from the Southeast to South | 15-35 kph from the South to Southwest | 25-50 kph from the Southwest          |
| 7.0 km                      | 45-65 kph from the Southwest          | 55-80 kph from the Southwest          | 45-70 kph from the Southwest to West  |
| 10.0 – 12.0 km              | 65-90 kph from the West to Northwest  | 55-80 kph from the West to Southwest  | 55-70 kph from the West to Southwest  |

If the eruption column remains at 5.0 km or below, the ash plumes may be drifted to the Municipalities west and northwest of Taal Volcano. However, if a major eruption occurs within the forecast period and the column exceeds 7.0 km, ash plumes may also be drifted over the western parts of Laguna and Quezon.

## II. EFFECTS

### A. Affected Population

- A total **88,842 families / 346,244 persons** were affected in the Provinces of Batangas, Quezon, Laguna, and Cavite.
- Of which, a total of **37,311 / 137,538 persons** are taking temporary shelter in **488 evacuation centers** while **37,230 families / 144,907 persons** are served outside ECs.
- The LGUs of Alitagtag, Balayan, Batangas City, Bauan, Calatagan, Ibaan, Lian, Lipa City, Lobo, Malvar, Nasugbu, Padre Garcia, Rosario, San Jose, San Juan, San Luis, San Pascual, Santa Teresita, Sto. Tomas, Taysan, and Tuy in Batangas; Alfonso, Amadeo, Dasmariñas, General Emilio Aguinaldo, Indang, Maragondon, Mendez (Mendez- Nuñez), Naic, Silang, Tagaytay City, and Ternate in Cavite; Alaminos, Bay, Cabuyao, City of Calamba, Cavinti, Kalayaan, Los Baños, Magdalena, Nagcarlan, San Pablo City, Santa Cruz, and City of Sta. Rosa in Laguna; Candelaria, Dolores, Gumaca, Infanta, Pagbilao, Pitogo, San Antonio, Sariaya, and Tiaong in Quezon; and Caloocan, Malabon, Manila, Muntinlupa, Parañaque, Taguig, Quezon City, and San Juan City in NCR hosted IDPs from affected municipalities.

Sources: DSWD DROMIC Report No. 22 on the Taal Volcano Phreatic Eruption as of 24 January 2020, 6:00 AM and OCD CALABARZON

Note: Change in figures are due to ongoing validation and verification.

**NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP**

### B. Status of Lifelines

#### Roads

- A total of **8 road sections** were reported closed due to the conduct of debris/clearing operations while some roads were locked-down as safety precautions for the community.
- As of 6:00 PM, 22 January 2020, a total of 4 road sections are now passable.

| ROAD SECTION   | STATUS   | REMARKS  |
|--|--|--|
| <b>CALABARZON</b>  |  |  |
| <b>Batangas 1<sup>st</sup> DEO</b>   |  |  |
| Palico-Balayan-Batangas Road, K0127+020 – K0132 + 550 (Lemery Section), Batangas     | Passable as of 18 January 2020, 10:00 AM   | On LOCKDOWN for possible Taal Eruption as of 16 January 2020, 8:00 AM.<br>All equipment and personnel were moved to DPWH Balayan office.   |
| <b>Batangas 3<sup>rd</sup> DEO</b>   |  |  |
| Tanauan-Talisay-Tagaytay Road, Talisay-Tagaytay Section, Talisay, Batangas           | Ashfall was partially cleared but currently on partial lockdown going to Talisay as per advised of LGU as safety precautions for the community. Road closed at K0070+000 due to presence of ashfall.   | All clearing Operations are suspended temporarily on areas within the 14-km Radius Permanent Danger Zone. All deployed personnel and equipment are on standby at Batangas 3 <sup>rd</sup> DEO to resume rescue/clearing operations<br>On 14 January 2020, 4:00 PM, road section was reported passable but was then closed on 15 January 2020 due to ashfall. |
| Talisay Laurel-Agoncillo Road  |  |  |
| a. Laurel Section, K0082+000-K0102+000, Batangas                                     | Ashfall was partially cleared but currently on total lockdown with window hours from 6:00 AM - 10:00 AM at Municipality of Talisay only, as per advised of LGU as safety precautions for the community. Road closed at K0102+026 - K0102+082 due to presence of ashfall. | All clearing Operations are suspended temporarily on areas w/in the 14-km Radius Permanent Danger Zone. All deployed personnel and equipment are on standby at Batangas 3 <sup>rd</sup> DEO to resume rescue/clearing operations   |
| b. Agoncillo Section (unclassified road from Brgy. Banyaga Agoncillo – 12km stretch) | Ashfall was partially cleared but currently on total lockdown as per advised of LGU as safety precautions for the community  | All clearing Operations are suspended temporarily on areas w/in the 14-km Radius Permanent Danger Zone. All deployed personnel and equipment are on standby at Batangas 3 <sup>rd</sup> DEO to resume rescue/clearing operations   |
| c. K0114+254-K0121+074   | Ashfall was cleared but currently on lockdown as per advised of LGU as safety precautions for the community  | Cleared but with total lockdown with window hours from 6:00 AM to 10:00 AM at Municipality of Talisay only   |
| Lake Taal – Tagaytay Road, Batangas  | Passable as of 19 January 2020, 8:48 PM.   | On LOCKDOWN as a safety precautions for the community.<br>All clearing Operations are suspended temporarily on areas within the 14-km Radius Permanent Danger Zone. All deployed personnel and equipment are on standby at Batangas 3 <sup>rd</sup> DEO to resume rescue/clearing operations.  |
| <b>Cavite 2<sup>nd</sup> DEO</b>   |  |  |
| Tagaytay – Taal Lake Road, K0057 + (-1209) – K0064 + 357, Tagaytay, Cavite           | Passable as of 18 January 2020, 2:00 PM  | On LOCKDOWN as a safety precautions for the community as of 15 January 2020, 8:00 AM.<br>Clearing operations are suspended due to lock down. Equipment and personnel are on standby to resume rescue and relief operations   |
| Tagaytay – Talisay Road, K0060 + (-158) – K0062 + 213, Tagaytay, Cavite              | Passable as of 18 January 2020   | On LOCKDOWN as a safety precautions for the community.<br>Clearing operations are suspended due to lock down. Equipment and personnel are on standby to resume rescue and relief operations.   |

Source: DPWH Situational Report on Major Roads and Bridges due to Taal Volcano Eruption as of 21 January 2020, 1:00 PM

### NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP

#### Air Travel

A total of **643 flights (383 domestic and 260 international)** were reported cancelled due to the volcanic ash from Taal Volcano. All flights have already resumed.

Sources: MIAA and OCD ROs NCR and III

Note: Change in figures is due to verification and validation.

### NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP

## Power Supply

A total of **20 cities/municipalities** experienced power interruption in the Provinces of Cavite, Laguna, and Batangas (CALABARZON). As of 20 January 2020, all reported areas have restored power.

| REGION/ PROVINCE/ MUNICIPALITY /CITY | DATE OF INTERRUPTION / OUTAGE | DATE RESTORED   |
|--------------------------------------|-------------------------------|---|
| <b>Cavite</b>                        |                               |   |
| <i>Amadeo</i>                        | 12 January 2020               | 15 January 2020, 9:30 AM  |
| <i>Tagaytay City</i>                 | 12 January 2020               | 15 January 2020, 9:30 AM  |
| <i>Alfonso</i>                       | 13 January 2020               | 17 January 2020, 9:30 AM  |
| <i>Indang</i>                        | 13 January 2020               | 17 January 2020, 9:30 AM  |
| <i>Mendez</i>                        | 13 January 2020               | 17 January 2020, 9:30 AM  |
| <b>Laguna</b>                        |                               |   |
| <i>Calamba</i>                       | 13 January 2020               | January 15, 2020 - 6 brgys<br>January 18, 2020 - 2 brgys<br>January 19, 2020 - 1 brgy |
| <i>Cabuyao</i>                       | 13 January 2020               | 17 January 2020, 8:00 PM  |
| <i>Kalayaan</i>                      | 15 January 2020, 2:00 AM      | 15 January 2020, 8:00 AM  |
| <i>Lumban</i>                        | 15 January 2020, 2:00 AM      | 15 January 2020, 5:00 AM  |
| <i>Pagsanjan</i>                     | 15 January 2020, 2:00 AM      | 15 January 2020, 7:30 AM  |
| <i>Cavinti</i>                       | 15 January 2020, 2:00 AM      | 15 January 2020, 6:00AM   |
| <i>Paete</i>                         | 15 January 2020, 2:00 AM      | 15 January 2020, 7:30 AM  |
| <i>Sta. Rosa</i>                     | 13 January 2020, 2:50 PM      | 13 January 2020, 3:30 PM  |
| <i>San Pedro</i>                     | 13 January 2020, 2:50 PM      | 13 January 2020, 5:00 PM  |
| <b>Batangas</b>                      |                               |   |
| <i>Lipa City</i>                     | 12 January 2020, 6:00 PM      | 6 January 2020 4:00 PM  |
| <i>Tanauan City</i>                  | 12 January 2020, 6:00 PM      | 14 January 2020, 5:00 PM  |
| <i>Laurel</i>                        | 12 January 2020, 1:00 PM      | 17 January 2020, 5:00 PM  |
| <i>Talisay</i>                       | 12 January 2020, 5:45 PM      | 14 January 2020, 5:00 PM  |
| <i>Lemery</i>                        | 12 January 2020               | 17 January 2020, 5:00 PM  |
| <i>Malvar</i>                        | 13 January 2020               | 14 January 2020, 4:00 PM  |

Sources: OCD CALABARZON and DILG

### NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP

## C. Suspension of Classes and Work

### Suspension of Classes

A total of **264 cities/municipalities** in Regions III, CALABARZON, MIMAROPA, and NCR declared suspension of classes. As of **23 January 2020**, classes in **228 cities/municipalities** have resumed.

Sources: OCD ROs III, CALABARZON, and NCR

### Suspension of Work

On 13 January 2020, work in all government offices in Regions III, CALABARZON, MIMAROPA (Occidental Mindoro: Abra de Ilog, Mamburao, Paluan, Looc, and Lubang) and NCR were declared suspended. As of 14 January 2020, work in all government offices in MIMAROPA (Occidental Mindoro: Abra de Ilog, Mamburao, Paluan, Looc, and Lubang), CALABARZON, and NCR have resumed.

Sources: Office of the Executive Secretary/PIA, and OCDRO MIMAROPA

### NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP

## D. Cost of Damage

A total of **₱3,215,788,882.00** worth of damage to agriculture was incurred in the provinces of Batangas, Laguna and Cavite (CALABARZON).

| REGION/<br>PROVINCE | CORN                  | HVC                      | RICE                 | FISHERIES                | LIVESTOCK              | TOTAL COST               |
|---------------------|-----------------------|--------------------------|----------------------|--------------------------|------------------------|--------------------------|
| <b>TOTAL</b>        | <b>₱88,937,300.00</b> | <b>₱1,394,857,909.00</b> | <b>₱5,655,840.00</b> | <b>₱1,600,000,000.00</b> | <b>₱126,337,833.00</b> | <b>₱3,215,788,882.00</b> |
| <b>CALABARZON</b>   | <b>₱88,937,300.00</b> | <b>₱1,394,857,909.00</b> | <b>₱5,655,840.00</b> | <b>₱1,600,000,000.00</b> | <b>₱126,337,833.00</b> | <b>₱3,215,788,882.00</b> |
| Batangas            | ₱88,584,500.00        | ₱341,058,927.00          | ₱4,600,000.00        | ₱1,600,000,000.00        | ₱126,272,833.00        | ₱2,160,516,260.00        |
| Cavite              | ₱352,800.00           | ₱1,023,134,150.00        | ₱1,026,200.00        | -                        | ₱65,000.00             | ₱1,024,578,150.00        |
| Laguna              | -                     | ₱30,664,832.00           | ₱29,640.00           | -                        | -                      | ₱30,694,472.00           |

Source: Department of Agriculture Bulletin No. 07 as of 19 January 2020, 5:00 PM

**NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP**

## E. Declaration of State of Calamity

The following areas were declared under State of Calamity due to Taal Volcano's Phreatic Eruption:

| REGION/ PROVINCE/ CITY/<br>MUNICIPALITY | RESOLUTION NO. | DATE            |
|---|----------------|-----------------|
| <b>CALABARZON</b>                       |                |                 |
| Batangas Province                       | 001, s. 2020   | 13 January 2020 |
| Cavite Province                         | 1389, s. 2020  | 15 January 2020 |
| Tagaytay City                           | 2020-364       | 15 January 2020 |

Source: OCD CALABARZON

**NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP**

## F. Areas on Lockdown

The following cities/municipalities in Batangas (CALABARZON) implemented total and partial lockdown:

| AREA            | DATE                     | REMARKS |
|-----------------|--------------------------|---------|
| <b>BATANGAS</b> |                          |         |
| Lemery          | 19 January 2020, 6:00 PM | Total   |
| Agoncillo       | 19 January 2020, 6:00 PM | Total   |
| Laurel          | 19 January 2020, 6:00 PM | Partial |
| Balete          | 19 January 2020, 6:00 PM | Total   |
| Sta. Teresita   | 19 January 2020, 6:00 PM | Total   |
| Talisay         | 19 January 2020, 6:00 PM | Total   |
| Taal            | 19 January 2020, 6:00 PM | Partial |
| San Nicolas     | 19 January 2020, 6:00 PM | Total   |
| Mataas na Kahoy | 21 January 2020          | Total   |
| Cuenca          | 21 January 2020          | Partial |
| Alitagtag       | 21 January 2020          | Partial |
| City of Tanauan | 21 January 2020          | Total   |

Sources: OCD CALABARZON and PNP

**NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP**

## III. DISASTER PREPAREDNESS AND RESPONSE

### A. National Disaster Risk Reduction and Management Council (NDRRMC)

#### 1. Office of Civil Defense (OCD)

Provided 16 pcs. of tarpaulins to DSWD for relief operations.

## 2. NDRRM Operations Center (NDRRMOC)

- a. Activated the alert status to RED effective 12 January 2020, 9:00 PM.
- b. Continuously coordinating with OCDROs III, CALABARZON, and NCR re status of Taal Volcano.
- c. Disseminated information/notification thru Short Messaging System.
- d. Conducted Response Cluster meeting on 13 January 2020, 8:00 AM, at the 3<sup>rd</sup> Floor New NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.
- e. Prepared and disseminated Emergency Alert and Warning Message (EAWM) to provide information and warning to the public regarding the eruption:

| EAWM                       | Date and Time            | Area  |
|----------------------------|--------------------------|---|
| Taal Volcano Alert Level 3 | 12 January 2020, 4:20 PM | Batangas  |
| Health Advisory re Ashfall | 12 January 2020, 6:16 PM | Batangas, Cavite, and Laguna                      |
| Taal Volcano Alert Level 4 | 12 January 2020, 7:30 PM | Batangas, Cavite, and Laguna                      |
| Taal Volcano re Ashfall    | 13 January 2020, 3:50 AM | Batangas, Bulacan, Cavite, Laguna, Rizal, and NCR |

- f. Activated Response Cluster on 13 January 2020, 12:00 NN.
- g. Conducted Response Cluster Meeting for the Worst-Case Scenario re Phreatic Eruption of Taal Volcano on 15 January 2020, 11:00 AM, at the 3<sup>rd</sup> Floor New NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.
- h. Conducted Joint NDRRMC-RDRRMC CALABARZON Response Cluster Meeting on 17 January 2020, 1:00 PM at Batangas Sports Complex, Batangas City.
- i. Conducted 3<sup>rd</sup> Response Cluster Meeting on 20 January 2020, 2:00 PM at the NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.

## 3. Department of Education (DepEd)

- a. Conducted Psychological First Aid to 101 learners of Asis Elementary School and 30 learners of Cupang Elementary School in Bauan, Batangas.

## B. Regional/Local Disaster Risk Reduction and Management Councils (R/LDRRMCs)

RDRRMCs III, CALABARZON, MIMAROPA, and NCR are continuously monitoring their areas of responsibility and are in close coordination with their respective member agencies to ensure the widest dissemination of updates and advisories through SMS, facsimile, and official social media websites.

| RDRRMC     | ALERT STATUS | DATE                     |
|------------|--------------|--------------------------|
| III        | BLUE         | 13 January 2020, 1:00 AM |
| CALABARZON | RED          | 12 January 2020, 4:00 PM |
| NCR        | BLUE         | 12 January 2020, 8:00 PM |
| MIMAROPA   | BLUE         | 12 January 2020, 8:00 PM |
|            | WHITE        | 15 January 2020, 5:00 PM |

## 1. RDRRMC CALABARZON

### DILG CALABARZON

- a. Conducted Emergency RDRRMC Meeting at Camp Vicente Lim on 24 January 2020 to discuss and clarify issues on the implementation of lockdown of LGUs.
- b. Conducted DPMAT Meeting (Regional and Provincial DRR Focal Persons) on 24 January 2020 to discuss issues and concerns, recommendations and agreements in the EOC.

### DENR CALABARZON

- a. Conducted air quality monitoring and reporting activities on 24 January 2020.
- b. Sent donations to 3 Evacuation Centers in Alfonso, Cavite.

- c. Utilized the Taal Volcano Protected Landscape (TVPL) boat for the evacuation/relocation of residents affected by Taal Volcano.

#### **BFP CALABARZON**

- a. Deployed a total of 1,303 BFP personnel to Rizal, Quezon, Batangas, Cavite, and Laguna as of 24 January 2020, 10:00 AM.
- b. Placed a total of 6 Ambulances to Cavite, Batangas, and Quezon on standby for Search and Rescue Operations.
- c. Dispatched a total of 211 Fire trucks (142 from BFP and 69 from LGU) to Cavite, Laguna, and Batangas for continuous flushing operation and water rationing to affected areas.

#### **CDDRMC Bacoor, Cavite**

- a. Coordinated with BDRRMCs re Possible Deployment of Emergency Response Personnel.
- b. Deployed personnel at the Batangas PDRRMC EOC as part of the Incident Management Team (IMT).
- c. Deployed personnel at the Rapid Deployment Ambulatory Rescue (RADAR) Command Center Tent at Brgy. Caloocan, Balayan, Batangas.
- d. Assisted the CSWDO in the distribution of relief goods to Barangays Molino 4, Ligas 3, Panapaan 3, Tabing Dagat, Habay 2 and Salinas 1, Bacoor, Cavite.

#### **IV. COST OF ASSISTANCE**

A total of **₱26,913,695.81** worth of assistance was provided by DSWD, DOH, DepEd, and LGU to the affected families.

*Sources: DROMIC Report No.21 as of 24 January 2020, 6:00 AM, DOH HEARS Plus Report, DOH Sitrep no. 10, DepEd Sitrep no. 17, OCD CALABARZON, and OCD MIMAROPA*

*Note: The decrease in the cost of assistance (DSWD DROMIC) is due to the actual unit cost of the relief items distributed to affected families and individuals.*

**NO SIGNIFICANT CHANGES FROM PREVIOUS SITREP**

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