




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

SitRep No. 18 re Mayon Volcano Eruption


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Administrator, OCD

DATE : 27 January 2018, 8:00 AM

Sources: DOST-PHIVOLCS, DSWD DROMIC, DILG, PCG, DOH, BFP, MIAA, PAL, Cebu Pac, DEPED, DPWH, RDRRMC/OCDRO V

I. SITUATION OVERVIEW

A. Chronological of Events and Eruption Notifications from 13 to 26 January 2018 (TAB A)

B. Current Situation

27 January 2018

Between 6:26 AM to 1:40 PM 26 January 2018, three (3) episodes of sporadic lava fountaining from the summit crater lasting twenty-four (24) minutes to forty (40) minutes occurred. The lava fountains generated ash plumes that reached 3 kilometers above the crater. The events fed lava flows on the Mi-isi and Bonga Gullies, sprayed near-vent lava spatter, and fed rockfall on the summit area. Only one (1) pyroclastic density current or PDC on the Mi-isi Gully was observed. Lava fountaining episodes transitioned into aseismic lava effusion in the early evening, feeding incandescent lava flows on the Bonga and Mi-isi Gullies, the former of which advanced significantly downslope.

A total of ten (10) volcanic earthquakes, twenty-one (21) tremor events, three (3) of which correspond to the lava fountaining events, one (1) PDC from lava collapse, and twenty-one (21) rockfall events were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Bonga and Mi-isi Gullies. Currently, the Mi-isi and Bonga lava flows have maintained their advance to three (3) and 1.8 kilometers, respectively, from the summit crater. Sulfur Dioxide Gas emission was measured at an average of 1,916 tonnes/day on 25 January 2018. Electronic tilt and continuous GPS measurements indicate a sustained swelling or inflation of the edifice since November and October 2017, consistent with pressurization by magmatic intrusion.

II. EFFECTS

A. Pre-Emptive Evacuation (TAB B)

- a. A total of **16,380 families** were pre-emptively evacuated in Region V due to Mt. Mayon phreatic eruption.

Source: DILG SitRep No. 04 as of 24 January 2018

B. Affected Population

1. As of **6:00 AM, 26 January 2018**, a total of **21,755 families / 84,727 persons** were affected in **58 barangays** in the municipalities/cities of Bacacay, Camalig,

Guinobatan, Ligao City, Daraga, Tabaco City, Malilipot, Santo Domingo (Libog), and Legazpi City in the Province of Albay (Region V).

- Of which **17,934 families / 67,990 persons** are currently being served inside the **68 designated evacuation centers (ECs)**. While, **2,822 families / 11,946 persons** are served outside ECs.

PROVINCE/CITY/ MUNICIPALITY	AFFECTED			NO. OF ECs	SERVED INSIDE EC		SERVED OUTSIDE EC		TOTAL SERVED (Inside + Outside)	
	BRGY	FAM	PERS		FAM	PERS	FAM	PERS	FAM	PERS
GRAND TOTAL	58	21,755	84,727	68	17,934	67,990	2,822	11,946	20,756	79,936
ALBAY										
Bacacay	1	126	575	1	126	575			126	575
Camalig	14	2,985	11,236	13	2,979	11,218	6	18	2,985	11,236
Daraga	6	4,391	17,799	8	2,139	8,652	1,266	4,901	3,405	13,553
Guinobatan	6	3,174	10,891	16	3,169	10,862	-	-	3,169	10,862
Legazpi City (Capital)	9	3,868	15,251	11	3,862	14,751	-	-	3,862	14,751
Ligao City	5	1,326	5,671	6	1,326	5,671	-	-	1,326	5,671
Malilipot	3	1,261	4,926	2	1,216	4,758	45	168	1,261	4,926
Santo Domingo (Libog)	6	2,905	11,517	4	1,400	4,658	1,505	6,859	2,905	11,517
Tabaco City	8	1,719	6,861	7	1,717	6,845	-	-	1,717	6,845

Source: DSWD Dromic Report No. 20 on the Mayon Phreatomagmatic Eruption as of 26 January 2018, 6PM
Note: Figures based on actual head count, decrease in number due to ongoing validation

C. Suspension of Classes (TAB C)

- Classes were suspended in **17 cities/municipalities** in the Provinces of Albay and Camarines Sur.

D. Status of Lifelines

Roads and Bridges (TAB D)

- Roads in Albay were rendered impassable due to landslides and ashfall. Immediate clearing operations were conducted.

Status of Flights

- A total of **11 international flights** and **106 domestic flights** were cancelled due to the Volcanic Activity.

FLIGHT NO.	ROUTE	DATE OF CANCELLATION
International Flights (11)		
Japan Airlines (1)		
JL745	Narita-Manila	22 January 2018
Air Niugini (2)		
PX 010 / 011	Port Moresby-MNL-Port Moresby	22 January 2018
Jetstar (6)		
GK 95 / 94	Nagoya-Manila-Nagoya	22 January 2018
GK 41 / 40	Narita-Manila-Narita	22 January 2018
3K 761 / 762	Singapore – Manila - Singapore	23 January 2018
United Airlines (2)		
UA 183 / 184	Guam-Manila-Guam	22 January 2018
Domestic Flights (106)		
Cebu Pacific Air (24)		
5J 327 / 328	Manila-Legazpi-Manila	22 January 2018
5J 321 / 322	Manila – Legazpi – Manila	24 January 2018
5J 323 / 324	Manila – Legazpi – Manila	24 January 2018
5J 325 / 326	Manila – Legazpi – Manila	24 January 2018
5J 821 / 822	Manila – Virac – Manila	24 January 2018
5J 327 / 328	Manila – Legazpi – Manila	25 January 2018
5J 327 / 328	Manila-Legazpi-Manila	26 January 2018
5J 321 / 322	Manila – Legazpi – Manila	26 January 2018
5J 323 / 324	Manila – Legazpi – Manila	26 January 2018

FLIGHT NO.	ROUTE	DATE OF CANCELLATION
5J 325 / 326	Manila – Legazpi – Manila	26 January 2018
5J 327 / 328	Manila – Legazpi – Manila	26 January 2018
5J 321 / 322	Manila – Legazpi – Manila	27-29 January 2018
Cebgo (34)		
DG 6117 / 6118	Manila-Naga-Manila	22 January 2018
DG 6031 / 6032	Manila-San Jose-Manila	23 January 2018
DG 6073 / 6074	Manila-Tablas-Manila	23 January 2018
DG 6177 / 6178	Manila-Masbate-Manila	23 January 2018
DG 6298 / 6299	Caticlan-Clark-Caticlan	23 January 2018
DG 6206 / 6207	Cebu-Legaspi - Cebu	23 January 2018
DG 6041 / 6042	Manila - Busuanga - Manila	23 January 2018
DG 6055 / 6056	Manila - Busuanga - Manila	23 January 2018
DG 6043 / 6044	Manila - Busuanga - Manila	23 January 2018
DG 6045 / 6046	Manila - Busuanga - Manila	23 January 2018
DG 6204 / 6205	Cebu – Legazpi - Cebu	24 January 2018
DG 6111 / 6112	Manila-Naga-Manila	25 January 2018
DG 6113 / 6114	Manila-Naga-Manila	24 January 2018
DG 6204 / 6205	Cebu – Legazpi - Cebu	26 January 2018
DG 6204 / 6205	Cebu – Legazpi - Cebu	27-29 January 2018
PAL (46)		
PR 2927 / 2928	Cebu – Legazpi - Cebu	22 January 2018
PR 2965 / 2966	Clark – Naga – Clark	22 January 2018
PR 2921	Manila – Legazpi	23 January 2018
PR 2927	Cebu – Legazpi	23 January 2018
PR 2965	Clark - Naga	23 January 2018
PR 2621	Clark – Masbate	23 January 2018
PR 2921 / 2922	Manila – Legazpi - Manila	24-25 January 2018
PR 2927 / 2928	Cebu – Legazpi – Cebu	24-25 January 2018
PR 2935 / 2936	Clark – Virac - Clark	24 January 2018
PR 2621 / 2622	Clark – Masbate - Clark	24 January 2018
PR 2965 / 2966	Clark – Naga – Clark	24 January 2018
PR 2921 / 2922	Manila – Legazpi - Manila	27-31 January 2018
PR 2927 / 2928	Cebu – Legazpi – Cebu	27-31 January 2018
AirSwift (2)		
T6 110	Manila – El Nido	24 January 2018
T6 114	Manila – El Nido	24 January 2018

Source: MIAA, PAL and Cebu Pacific

2. Declaration of State of Calamity

1. On 16 January 2018, the Province of Albay, Region V was declared under the State of Calamity thru Resolution No. 00670-2018.

3. Schools Affected

1. A total of **24 Schools**, **21,479 Learners**, and **382 DepEd Personnel** located within the 6-7 kilometer Permanent Danger Zone were affected during the event.

Source: OCD V Situation Report #27 re Mt. Mayon Alert Level 4, 25 January 2018, 8:00 AM

4. Damage to Agriculture

- a. A total of **₱189,434,666.00** worth of damages to agriculture was incurred in the Province of Albay:

PROVINCE		CROPS	HVCC	TOTAL
Albay	Rice	₱160,492,650.00	₱20,890,320.00	₱181,382,970.00
	Corn	₱7,573,696.00	-	₱7,573,696.00
	Abaca	₱478,000.00	-	₱478,000.00
TOTAL				₱189,434,666.00

Source: OCD RO V.

III. ACTIONS TAKEN

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

1. NDRRM Operations Center (NDRRMOC)

- Activated the alert status to BLUE ALERT effective 8:00 AM, 15 January 2018.
- Coordinated with RDRRMC V re PHIVOLCS Eruption Notification Form for Mayon Volcano.
- Disseminated information/notification thru Short Messaging System.
- Prepared and disseminated the following Emergency Alert and Warning Messages (EAWMs) to provide information and warning to the public regarding Mayon Volcano's activity:

EAWM	Area
13 January 2018 re Mayon Volcano generated a steam driven explosion at 5:06 PM and produced 2.5 km high grayish ash plume that drifted towards the Southwest.	Region V
14 January 2018 re raising of alert from Alert Level 2 to Alert Level 3	Region V
22 January 2018 re raising of alert from Alert Level 3 to Alert Level 4	Region V

- Disseminated Volcano Observatory Notice for Aviation (VONA) regarding Lava Fountaining.
- Raised the alert status of NDRRMOC from Blue to Red effective 22 January 2018.
- Conducted Response Cluster Meetings on 22 and 23 January 2018, 6:00 PM.

2. Philippine Institute of Volcanology and Seismology (PHIVOLCS)

- a. Provision of Mayon Volcano Eruption Notification.
- b. Continuous monitoring of the situation.
- c. Issued Volcano Observatory Notice for Aviation (VONA) regarding Lava Fountaining.

3. Department of Social Welfare and Development (DSWD)

- a. DSWD-DReaMB raised alert status from Green to Red.
- b. Continuously coordinating with DSWD FO V for significant reports on the status of displacement and assistance and relief efforts.

4. Telecommunications Service Providers (ABS-CBN, GLOBE, and SMART)

- a. Disseminated Emergency Alert and Warning Messages to Region V.

5. Department of the Interior and Local Government (DILG)

- a. Continuously coordinating with DILG Regional Office V on the preparedness actions of LGUs affected by the Mayon Volcano phreatomagmatic eruption
- b. Continuously updates the SILG on the preparedness actions of LGUs affected by the Mayon Volcano phreatomagmatic eruption and lava flow.
- c. Closely monitors the situation on the ground with regard to the raising the alert level 2 of Mayon Volcano into alert level 3.
- d. Close monitoring of the situation on the ground with regards to the increase of activity of Mayon Volcano and the raising of alert 3 (Relatively high unrest) into alert level 4 (Intense unrest).

6. Department of Health (DOH)

- a. Continuous monitoring and coordination with DOST-PHIVOLCS regarding the status of Mayon Volcano.
- b. Coordinated with DOH Region V for any untoward incident and response needed.
- c. Provided a total of **₱7,995,518.67** worth of logistical support to DOH RO V.
- d. A total of **2,532** consultations were reported from January 15-24, 2018. Majority (**1,675 or 66%**) of the consultations were due to Acute Respiratory Infection (ARI) followed by fever (**391 or 15%**) and **hypertension (241 or 10%)**.
- e. Conducted assessment and provided technical assistance to Regional Office V.

7. Philippine Coast Guard (PCG)

- a. Deployed two (2) M-35 Trucks with 12 personnel, 9 k9 personnel, and 2 k9 dogs with handlers; and two (2) ambulances with 5 personnel and 2 doctors to Coast Guard District Bicol for augmentation.
- b. Deployed three (3) M-35 Trucks to haul of relief goods to the affected municipalities in the province of Bicol.
- c. Coordinated with the PCGA District Auxiliary for the possible augmentation of their Deployable Response Group / Search and Rescue (DRG/SAR) Team for deployment.

8. Department of Public Works and Highways (DPWH)

- a. Deployed and placed on standby the equipment from three District Engineering Offices (DEOs) of Albay, Camarines Norte, and Equipment Management Division (EMD):
 - One (1) unit of dump truck and one (1) unit of backhoe from Albay 1st DEO are on stand-by for possible deployment
 - One (1) unit of dump truck from Albay 2nd DEO is deployed to Camalig and Daraga Albay to assist in evacuation and relief operations. Additional dump trucks from volunteer private contractors help in distribution/delivery of relief goods.
 - Two (2) units of L300, two (2) units of dump truck, 2 pick-up trucks and one (1) unit of road grader from Albay 3rd DEO are deployed in Ligao City to assist in evacuation and relief operations.
 - One (1) unit of dump truck, one (1) unit of boom truck and twelve (12) maintenance crew from Camarines Norte DEO arrived at Albay 3rd DEO to augment their workforce.
 - One (1) unit of mini dump truck, one (1) unit of stake truck and one (1) unit of bus from EMD RO-V are on standby for possible deployment.
- b. Continuously monitoring the situation.
- c. DEOs provided road signage along affected areas for precaution during heavy ash fall.

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

1. RDRRMC V

Office of Civil Defense (OCD) V

- a. Disseminated to all concerned the PHIVOLCS Bulletin raising the Alert Status of Mayon Volcano from Alert Level 2 to Alert Level 3.

- b. Attended the Updates Meeting of PHIVOLCS re Status of Mayon Volcano on 14 January 2017.
- c. OCD-RDRRMC Bicol on Red Alert Status for Mayon Volcano since 14 January 2018, 1:00 AM.
- d. Continuous coordination with DOST- PHIVOLCS re – status of Mayon Volcano.
- e. Sent through SMS the status of volcanic activity of Mayon Volcano to RDRRMC members and stakeholders.
- f. Coordinated with MDRRMO Camalig, Guinobatan and Daraga and sent to PDRRMO – Albay through SMS status of volcanic activity of Mayon Volcano.
- g. On close monitoring.
- h. Conducted RDRRMC Emergency Meeting re Updates for Mayon Volcano Operations 2018 at Tactical Operations Group – Philippine Air Force, Airport Site, Legazpi City.
- i. Continuous coordination with LDRRMOs and RDRRMC Member Agencies.
- j. Conducted Aerial Survey regarding the extent of lava flow with member agencies on 17 January 2018.
- k. Provided logistics to regional responders.
- l. Dispatched trucks from AFP, PNP, and DPWH for the evacuation of affected residents.
- m. Conducted briefing re Mayon Volcano Updates with Secretary of DENR, held at Handyong Hall, OCD V, Camp Ola, Legazpi City on 22 January 2018.
- n. Dispatched trucks from AFP, PNP, and DPWH for evacuation of residents within the 8-km EDZ.
- o. Conducted Mayon Volcano Updates meeting on 23 January 2018 at Camp Ola, Legazpi City.

DILG V

- a. Attended the Emergency Meeting at TOG5 for Mayon updates.
- b. Reported/presented real-time situation to RDRRMC Bicol for coordination assistance and provision of needed intervention of particular agency.
- c. Ensure the LCEs of affected LGUs located within the 7-km PDZ are provided with necessary precautionary measures, particularly to undertake immediate evacuation.
- d. Mobilize field operating units to provide timely updates for any untoward and significant incidents.
- e. Advised the DILG field operating units to constantly coordinate with PDRRMCs/PDRRMOs.
- f. Maintained and intensified open-line coordination with preparedness and response agencies.
- g. Continuous sending of text blast regarding Mayon updates to concerned field operating units.

DSWD V

- a. Has standby funds amounting to ₱5,662,702.15 and stockpiles of 13,352 family food packs (FFPs) and Non-Food items (NFIs) consist of 37,242 pcs malong, 382 rolls laminated sacks, 7,327 dignity kits and 54,832 blankets ready for augmentation to LGUs.
- b. PAT and MAT members in the province of Albay are on standby and continuously coordinating with the P/C/MDRRMOs for status reports and updates. EMT of the Field Office is already activated and rendered its duty today.

- c. As of 18 January 2018, DWSD-FO QRT is still on red alert status. Emergency Telecom Equipment is on standby and is ready for deployment as the need arises.
- d. Quick Response Team is on Red Alert and additional teams established to augment in monitoring of affected population.
- e. Prepositioned 2 tents at Bicol Regional Training and Teaching Hospital (BRTTH) for possible influx of patients.
- f. Conducted monitoring, validation, and assessment of Evacuation Centers to ensure that the needs of IDPs are met and that the ECs are compliant to a zero sexual and gender-based violence in coordination with the C/MDRRMOs and C/MSWDOs together with the P/MATs.
- g. Monitored the relief distribution of DSWD family food packs at Salvacion Elementary School in Sto. Domingo, Albay.
- h. Conducted Response Cluster Meeting presided by the Regional Director.

DOST – PHIVOLCS V

- Hosted a meeting regarding the status of Mayon Volcano.
- Close monitoring of Mayon Volcano activities.
- Disseminate Mayon Volcano Bulletins and advisories to LGUs and other stakeholders.
- Close coordination with OCD5, PDRRMO Albay and LGUs of the province.
- As of 16 January 2018, a 7-km Extended Danger Zone is implemented.

Bureau of Fire Protection (BFP) V

- a. Issued memorandum dated 15 January 2018 to BFP Albay re Heightened Alert (Activation of OPLAN PAGHALASA).
- b. Ensured availability of fire/rescue/emergency medical personnel, assets and equipment for possible response operations.
- c. Coordinated with C/MDRRMCs for appropriate dispositions of actions.
- d. Rationed water to evacuation centers.
- e. Conducted fire safety inspection, flushing and de clogging operations, food packs packing/distribution, and distribution of flyers at evacuation site.

Coast Guard District Bicol

- a. On full alert
- b. Augmented K9 personnel and two (2) SAR dogs, and one (1) M35 truck with seven (7) personnel onboard and placed on standby for briefing and possible deployment.
- c. Placed asset and DRGs on standby for possible deployment.
- d. Advised stations/substations to place their DRGs on standby for possible augmentation.

Department of Agriculture (DA) V

- a. Provision of two (2) trucks for evacuation of livestock to the identified pooling sites, and to Albay Experiment Stations in Tabaco City and Albay Breeding Station in Camalig Albay.
- b. Continuous provisions of logistic support and other materials for evacuation with additional provisions for medicine and other biologics:
 - 70 bottle of 10 lm. Vit. ADE
 - 10 bottle of 10 m. Terramycin LA
 - 5 canister of Enrofloxacin
 - 5 liter of Iodine
 - 2 gallon of Vivaguard

- c. Preparation of four hundred seventy-five (475) bags of hybrid corn seeds and ten (10) bags of corn grits, for distribution at the affected areas.
- d. Procurement of brush cutters, laminated sacks, ropes and buffer stocking of drugs and biologics.
- e. Conducted update/on-site validation for the identified pooling sites of livestock and animal extending the coverage to 9-km Extended Danger Zone.
- f. Evacuated and transported a total of 167 animals within the 7-8 km EDZ to pooling/evacuation centers in the municipalities of Camalig and Daraga.
- g. Provided support to livestock raisers/farmers (10m rope per animal, 10 kgs feed concentrates per animal, waterer/feeder, etc.).
- h. [Implementation of animal Healthcare intervention at the evacuation centers.](#)
- i. [Coordination with various banner programs for the three month contingency plan re Mayon Volcano Eruption in the affected areas.](#)

Department of Education (DepEd) V

- a. Inspection of schools/classrooms to be used as evacuation centers.
- b. Alerted all concerned schools and the School DRRM Coordinators to prepare the classrooms that will be used as ECs.
- c. Organized Monitoring Team of DepEd Engineers to validate the need for Temporary Learning Spaces (TLS) in the identified Evacuation Centers.
- d. Prepared Contingency Plans (Emergency classes; shifting of classes) to all schools used as ECs to ensure continuity of classes for the affected displaced learners and those who are actually enrolled in the school that is being used as ECs.
- e. Consolidated list of concerns in the ECs such as needs to construct temporary comfort rooms, repair of TLS for the learners, assignment of security officers and financial assistance for the electricity and water bills.
- f. Conducted a Planning Conference with the Division DRRM Coordinators for upcoming activities such as the Psychological First Aid for the displaced learners and affected personnel.

Department of Environment and Natural Resources (DENR) V

- a. Donated charcoal to the Provincial Government of Albay for distribution to the evacuees at different evacuation centers.
- b. Activated and implemented the scenario-based multi-hazard contingency plan and emergency management manual and creation of Quick Response Team.

DENR – Environmental Management Bureau (DENR-EMB) V

- a. Deployed ambient air quality sampling at areas affected by Mayon Volcano.

Department of Health (DOH) V

- a. Declaration of Code White Alert Status in relation to Mayon Volcano Phreatic Explosion.
- b. Raised alert status from Code White to Code Blue.
- c. Deployment of two (2) Rapid Health Assessment Teams in Camalig, Guinobatan and Ligao City.
- d. Logistics provided – LGU Guinobatan and LGU Camalig: ₱19,800 worth of mask (1,500 pcs.) each and ₱10,076.40 worth of assorted medicines each.
- e. Additional logistics provided – LGU Guinobatan and Camalig: ₱58,000.00 each worth of medicines and supplies.
- f. Conducted Orientation on Psychological First Aid for DOH-CHD V Monitoring Teams to be deployed and the use of monitoring tools and inventory of logistics.
- g. Conducted Rapid Health Assessment on affected municipalities by Joint PDO-PHO Teams.

- h. Deployed six (6) DOH-CHD V monitoring team on 16 January 2018 to the affected municipalities.
- i. Activated Oplan Mayon.
- j. Delegated contingency buildings as extension wards in case of patient surge.
- k. Prepositioned personal protective equipment (PPE) related to volcanic eruption.
- l. Activated the Hospital Alliance Network with private hospitals.
- m. Monitored breakout of diseases in evacuation centers.
- n. Disseminated referral forms for IDPs requiring medical intervention.
- o. Conducted emergency ManCom meeting to discuss plans for Alert Level 4 of Mayon Volcano.
- p. Coordinated with Bicol Medical Center and Bicol Sanitarium re Deployment at the evacuation centers.
- q. Distributed hygiene kits and water containers in the Municipality of Guinobatan and in Legazpi City.
- r. Assessed Lower Binogcasan School as well as Gogon Elementary School and provided Jerry cans and hygiene kits to the evacuees.
- s. Conducted Mental Health and Psychosocial Support (MHPSS) sessions e.g. Art Therapy in evacuation centers.

Bicol Regional Training and Teaching Hospital (BRTTH)

- a. On Code White Alert effective 14 January 2018.
- b. Activated and placed Emergency Department on standby.
- c. Prepositioned appropriate logistical needs.
- d. Conducted safety rounds to hospital areas.

Philippine National Police- Police Regional Office (PNP-PRO) 5

- a. Standby for deployment of SAR Personnel with equipment, Security Personnel and mobility from Regional Mobile Force Battalion, Regional Headquarters Support Group and Regional Logistics Division.
- b. In close coordination with MDRRMCS and with standby personnel for deployment.
- c. Conduct monitoring and inspection of the affected barangays under the 6km PDZ
- d. Provides security at the Evacuation center.
- e. Assisted in the evacuation of affected population in the municipality of Camalig, and Guinobatan.
- f. Issued memorandum to Albay PNP Provincial Director directing all units under their jurisdiction to stand by alert SAR personnel and equipment for possible deployment as need arises and monitor situation. Likewise direct police station within the 6-km PDZ to closely coordinate with their respective MDRRMC.
- g. Issued Memorandum to Regional Logistics, Headquarters Support Group and Regional Mobile Force Battalion to put on standby alert SAR personnel equipment and vehicle for possible deployment as need arises.

Department of Public Works and Highways (DPWH) V

- a. Instructed Albay 1st, 2nd, and 3rd District Engineers to monitor the ongoing eruption of Mayon Volcano and activated DRRMTs to clear ashfall/rocks that may block National Roads and Bridges.
- b. Continuously monitoring river channels near the foot of Mayon Volcano within their AOR for possible Lahar Flows that will affect the National Roads and Bridges.
- c. Provided assistance in the evacuation operation at Brgy. Amtic, Ligao City.
- d. Cleared debris coming from the slopes of Mayon during heavy rains.

- e. Albay 2nd ND 3RD DEO – DRRM Team on standby.
- f. Equipment Management Division – DRRM team on standby.
- g. Albay 3rd DEO donated a total of 20 sacks of rice and 200 containers of mineral water to the LGUs of Ligao City and Guinobatan, Albay.
- h. Albay 2nd DEO assisted in transfer of evacuees to ECs and in providing relief operations.

Department of Tourism (DOT) V

- a. Issued travel advisory for Mayon Volcano Alert Level 4.

9th ID, Philippine Army

- a. Placed four (4) military trucks on standby for possible evacuation.
- b. Conducted information campaign in the neighboring barangays in the 6-km PDZ.
- c. Prepositioned one (1) KM250 and one (1) KM450 with DRO personnel of 83th IB for possible deployment and for the conduct of pre-emptive evacuation to residents in the 6-8 km.
- d. Dispatched one (1) KM250 and one (1) KM450 with DRO personnel to APSEMO for possible deployment and for the conduct of pre-emptive evacuation to residents in the 6-8 km.
- e. Three (3) KM 450, one (1) KM 250, two (2) M35, and three (3) squads, one DRO Team on standby for deployment.
- f. DRUs/Assets were deployed for possible conduct of HADR operations.
- g. Evacuated 30 families with 153 individuals from Brgys. Matnog and Budiao, Daraga, Albay to Buraguis Elementary School Evacuation Center, Legaspi City.
- h. Continuously coordinates with the Task Force Sagip for the deployment of DRTs in evacuating the residents.
- i. Conducted preventive evacuation at Brgy. Padang, Leagazpi City and assisted in evacuation of residents of Brgy. Budiao and Brgy. Bañadero, Daraga, Albay and Mabinit, Legazpi City.
- j. Assisted the LGU Guinobatan in the packaging of relief goods.
- k. Transported relief goods to Camalig and Daraga, Albay and Buragwis, Legazpi City.
- l. Coordinated with OCD Region V and Albay PDRRMO for the updates regarding the event and possible response operations.

Naval Forces Southern Luzon, PN

- a. Evacuated 105 individuals from Brgys. Lidong and San Fernando to San Andres Elementary school and Resettlement area, all in Sto. Domingo, Albay.
- b. Conducted mustering of DRRT for possible deployment.
- c. Evacuated 105 individuals from Brgys. Lidong and San Fernando to San Andres Elementary School.
- d. Transported relief goods from Casablanca Hotel to Brgy. Gabawan Elementary School, Daraga spearheaded by Albay Youth Organization (TAYO).

Tactical Operations Group (TOG) 5, Philippine Air Force

- a. Facilitated availability of aircraft to be used for aerial survey of Mayon Volcano
- b. Placed DRU Team on standby with equipment and mobility to provide assistance for evacuation.
- c. Transported a total of 174 persons from Brgy. Buyuan, Mabinit, and Matanag to various evacuation sites.
- d. Facilitated the conduct of aerial survey of Mayon Volcano together with OCD V, PHIVOLCS, DSWD, 9ID PA, and APSEMO.

- e. Evacuated 8 families with 32 individuals from Brgy. Matanag, Legaspi City to Albay Central School.
- f. Evacuated a total of 33 families / 134 persons in Brgy. Muladbucad, Pequiño, Guinobatan to Municipal Hall of Guinobatan on 23 January 2018.
- g. Continuous provision of Security Forces, Disaster Rescue Teams (DRTs) and mobility to the evacuees.
- h. Evacuated a total of seven (7) families from Brgy. Padang to Puro Elementary School.
- i. Placed two (2) Humanitarian Assistance Disaster Response (HADR) teams on standby composed of six (6) TOG 5, four (4) 505th, and four (4) Special Operations Wing (SPOW) persons on board M35 and KM450 Troop carrier truck.
- j. Deployed two (2) NCO to act as Liaison Officers at Legazpi CDRRMO and Task Force SAGIP, Camp Ola, Legazpi City respectively.
- k. In constant coordination with Task Force SAGIP for the deployment of DRTs for the evacuation of residents.
- l. Constant and real time weather monitoring.

2CRG Civil Relations Group AFP

- a. Conducted live reporting (7 AM) at DWDD re Mayon Update.
- b. Disseminated update re Mayon Volcano to AFP units in Area of Responsibility (AOR) and to HCRS through email and text brigade.
- c. Continuous monitoring of the Mayon situation in coordination with AFP units and APSEMO.

National Food Authority (NFA)

- a. Has sufficient stock of rice and arrangements with nearby regions for augmentation of stocks.

PDRRMC Albay

- a. Close coordination with PDRRMC Chairman and members for the updates regarding the event and possible response actions.
- b. Coordination with PHIVOLCS from time to time as to the status of Mayon Volcano.
- c. Sent an updates for public information via SMS and through social media to all stakeholders.
- d. Suspension of classes for Kinder to Senior High school in 15 January 2018 in schools used as evacuation centers:
 - Evacuation of residents inside and within the periphery of the 6-km PDZ:
 - Camalig – Brgys. Anoling, Quirangay, Tumpa, Sua, Tinubran
 - Guinobatan – Brgys. Tandarora and Maninila
 - Daraga – Brgys. Miisi, Banadero, Matnog and Budiao
 - Ligao City – Brgys. Baligang and Amti
 - Tabaco City – Brgys. Magapo Buang and Buhian
 - Malilipot – Brgys. Canaway and Calbayog
- e. Strictly no farming and orchid picking inside the 6-km PDZ in Barangays Anoling, Quirangay, Tumpa, Sua, Tinubran in Camalig; Tandarora, Maninila in Guinobatan; Miisi, Banadero, Matnog and Budiao in Daraga; Baligang and Amti in Ligao City; Magapo Buang and Buhian in Tabaco City; and Canaway and Calbayog in Malilipot.
- f. Residents within the slope of the volcano experiencing heavy ash fall should take precautionary measure against possible roof collapse due to accumulated heavy ash and rain.
- g. C/MDRRMCs are advised to implement this advisory in their areas of jurisdiction.

- h. Coordinated with the affected MDRRMOs of ash fall to conduct immediate assessment in their AOR.
- i. Close coordination with PDRRMC Chairman and members for the updates regarding the event and possible response actions.
- j. In coordination with PHIVOLCS re the status of Mayon Volcano.
- k. Sent and updates for public information via SMS through social media to all stakeholders.

Provincial Health Office (PHO) Albay

- a. Water and Sanitation (WATSAN) team distributed drinking water to evacuation centers.
- b. Replenished medicines and other logistics to different evacuation centers.

MDRRMCs Camalig, Guinobatan, and Daraga

- a. Field assessment of affected areas of the Mayon Volcano Activity.
- b. Distributed face masks to the affected population of the activity.
- c. Implement evacuation operations of population in the 6-8km PDZ.
- d. MDRRMO Malilipot implemented evacuation operations of population at risk in Barangays Calbayog and Canaway.
- e. Ordered the cancellation of classes in the municipality.
- f. Conducted meeting with Punong Barangays (PBs) and validation of evacuated population.
- g. Continuously inspecting affected barangays to ensure that all families are evacuated.
- h. Conducted force evacuation of barangays within the 6-km PDZ of Mayon Volcano.

MDRRMC Sto. Domingo

- a. Placed the Mayon Unit Barangays (Lidong, Fidel, Surtida, Sta. Mesiricordia, and San Fernando) on alert and on standby.
- b. Strictly prohibited farming, orchid picking, and other activities inside the 6-km PDZ traversing the Mayon Unit Barangays.
- c. Advised affected BDRRMCs to implement the advisory in their AORs.
- d. Conducted meeting with LDRRMC and DepEd Principal.
- e. The Local Chief Executive (LCE) announces suspension of classes, preparation and evacuation on marginalized sector within 6-km PDZ.

CDRRMC Legazpi City

- a. Notified five (5) critical northern Barangays of the City (Mabinit, Bonga, Matanag, Buyuan, and Padang) of the situation thru call and SMS.
- b. Instructed BDRRMCs and Punong Barangays to strictly enforce the PDRRMC Albay Advisory No. 1 and monitor any updates.
- c. Placed City Health Office and CSWDO on standby.
- d. Alerted Disaster Response partners.
- e. Continuously disseminating advisories on social media official account.
- f. Conducted emergency meeting with Brgys. Mabinit, Bonga, Matandag, Buyuan, and Padang.
- g. Instructed BDRRMCs and Punong Barangays to strictly enforce the No Entry, No Farming and No. Picking of Orchids within the 6-km PDZ and within the 7-km Extended Danger Zone.
- h. Placed Legazpi City Fire Station on standby.
- i. Coordinated with Legazpi School Division Office to prepare the evacuation site and centers.
- j. Conducted decampment of evacuees from Brgys. Bonga, Buyuan, Mabinit, Matandag, and Padang.

- k. Conducted forced evacuation of residents at the 8-km PDZ.

CDRRMC Tabaco City

- a. Strictly implemented closure of the road going to Mayon Planetarium until further notice.
- b. Advised affected BDRRMCs to implement advisory in their AOR.
- c. Convened CDRRMC to discuss proactive measures related to Mayon Volcano Activity.
- d. Activated the MDRRMC Operations Center on 13 January 2018 for monitoring, warning, and communication purposes.
- e. Issued MDRRMC Advisory No. 2 s. 2018 on 13 January 2018, placing Mayon Unit Barangays on preparedness status and activating all BDRRMCs.
- f. Issued MDRRMC Advisory No. 3 s. 2018 on 14 January 2018, suspending classes on all levels at Mayon Unit Barangays and schools to be used as evacuation centers.
- g. MDRRMC Chairman issued Executive Order no. 3 s. 2018 on 14 January 2018, reorganizing the MDRRMC Response Cluster approach due to the abnormal activity of Mayon.
- h. Approved the utilization of unspent DRRM Fund.
- i. Conducted forced evacuation of barangays within the 6-km PDZ of Mayon Volcano.
- j. Conducted Rapid Needs Assessment at evacuation centers.

PDRRMC Catanduanes

- a. Deployed a water, sanitation, and hygiene (WASH) team to aid the health and water sanitation of displaced families in Albay.

PDRRMC Camarines Sur

- a. Convened to discuss the possible effects of Mayon Volcano's eruption.

PDRRMC Sorsogon

- a. Deployed PDRRMO Sorsogon WatSan team to Anislag Evacuation Center, Brgy. Anislag, Daraga, Albay for purified water assistance with the partner team Camarines Norte Prime Water.

Philippine Red Cross – Albay Chapter

- a. Deployed WASH assessment teams in all evacuation centers.
- b. Provided toilet bowls, tarpaulins, and dust masks to LGU Guinobatan.
- c. Provided 2,000 pieces of masks to LGU Camalig.

C. Cost of Assistance (TAB E)

1. A total of **₱40,116,833.88** worth of assistance was provided by DSWD, DOH, OCD, LGUs and NGOs to the affected families in the Province of Albay.

Source: DSWD Dromic Report No. 19 on the Mayon Phreatomagmatic Eruption as of 26 January 2018, 6AM; DOH HEARS PLUS Report as of 25 January 2018; and OCD RO V SitRep 26 as of 24 January 2018, 6:00 PM

Mayon Volcano Phreatic Eruption
Chronological of Events and Eruption Notifications
13 to 26 January 2018

13 January 2018

Mayon Volcano generated a steam driven explosion at 5:06 PM and produced 2.5 km high grayish ash plume that drifted towards the Southwest.

Traces of ash fall were found in the Municipalities of Camalig, Guinobatan, Daraga and Ligao City.

At 8:49 AM, Mayon Volcano had a phreatic eruption. Ash fall was expected at the west and southwest slopes.



14 January 2018

As of 12:30 AM, PHIVOLCS raised the Alert Level of Mayon Volcano from Alert Level 1 (abnormal) to Alert Level 2 (increasing unrest).

At 11:43 AM, another phreatic eruption occurred that lasted approximately 15 minutes based on seismic record. The event produced ash plume that was largely obscured by summit clouds. Sulfuric odor was detected in and traces of ash fell on Camalig, Albay. For the past 24 hours, Mayon Volcano has noticeably increased its unrest.

DOST-PHIVOLCS raised the alert status of Mayon Volcano from Alert Level 2 (increasing unrest) to Alert Level 3 (increased tendency towards hazardous eruption). This means Mayon is exhibiting relatively high unrest and that magma is at the crater and that hazardous eruption is possible within weeks or even days.

Other LGUs with barangays within the 6-km Permanent Danger Zone (PDZ) converted their respective MDRRMCs to discuss proactive actions to be undertaken by their LGU in case situation escalates. Barangays within the 6-km PDZ were alerted and advised to prepare in case of evacuation.

15 January 2018

Two lava collapse events occurred that produced rockfall and small-volume pyroclastic density currents at 9:41 AM and 10:05 AM that lasted 5 and 7 minutes respectively, based on seismic record. Ashfall were reported in Brgys. Travesia, Muladbuca Grande, Maninila, Masarawag, Poblacion, Iraya, Ilawod, Calzada, Inamnan Grande, Inamnan Pequeno, Maguiron, Quitago and Mauraro in the municipality of Guinobatan; Brgys.



Cabangan, Anoling, Sua, Tumpa, Quirangay, Gapo, Sumlang, Brgys. 1 to 7 in the Municipality of Camalig.

A degassing event at 11:07 AM that lasted 8 minutes produced a grayish to dirty white ash column with a maximum of height of approximately 1000 meters above the summit before drifting west-southwest.

16 January 2018

A total of nine (9) episodes of tremor, four (4) of which accompanied short-duration lava fountaining, and 75 lava collapse events, corresponding to rockfall along the front and margins of advancing lava and short pyroclastic flows downriver of Miisi Gully within the PDZ were recorded by Mayon's seismic network. Collapse events and some degassing events at the summit crater generated ash that



rose to 2 km and fell on barangays of Camalig, Guinobatan, and Polangui. Lava flow on the Miisi Gully has presently advanced to approximately 2km from the crater, while shorter volume lava flows have been emplaced on the upper slopes of the Bonga Gully.

17 January 2018

Lava effusion from the new summit lava dome and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. One hundred forty-three (143) lava collapse events and one (1) tremor were recorded by Mayon's seismic monitoring network. The lava collapse events corresponded to rockfall along the front and margins of advancing lava and pyroclastic flows downriver of Miisi, Matanag, and Buyuan Gullies within the PDZ.

18 January 2018

Quiet lava effusion from the new summit lava dome and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. Forty-eight (48) rockfall events, two (2) pyroclastic density currents or PDCs and one (1) volcanic earthquake were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Matanag and Buyuan Gullies. The Miisi lava flow has advanced to approximately three (3) kilometers from the summit crater whilst PDCs were emplaced roughly within the same reaches on this drainage, all well within the PDZ. Ash clouds were lofted from the rockfall and PDCs events as well as from the persistent disintegration of lava on the advancing front of the Miisi lava flow before drifting to the southwest.

19 January 2018

Quiet lava effusion from the new summit lava dome and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. Twenty four (24) rockfall events and one (1) volcanic earthquake were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi lava flow has advanced to

approximately three (3) kilometres from the summit crater well within the PDZ. Ash clouds were lofted from the rockfall events as well as from the persistent disintegration of lava on the advancing front of the Miisi lava flow before drifting to the southwest.

20 January 2018

Quiet lava effusion from the new summit lava dome and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. Five (5) rockfall events were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi lava flow has advanced to three (3) kilometers from the summit crater well within the PDZ. Ash clouds were lofted from the rockfall events as well as from the persistent disintegration of lava on the advancing front of the Miisi lava flow before drifting to the southwest.

Alert Level 3 remains in effect over Mayon Volcano, which means that it is currently in a relatively high level of unrest as magma is at the crater and hazardous eruption is possible within weeks or even days.

21 January 2018

Quiet lava effusion from the new summit lava dome and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. Fourteen (14) rockfall events and ten (10) pyroclastic density currents or PDCs were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi



Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi lava flow has advanced to three (3) kilometers from the summit crater well within the Permanent Danger Zone (PDZ). Weak ash clouds were lofted from the rockfall events as well as from the persistent disintegration of lava on the advancing front of the Miisi lava flow before drifting to the southwest.

Alert Level 3 remains in effect over Mayon Volcano, which means that it is currently in a relatively high level of unrest as magma is at the crater and hazardous eruption is possible within weeks or even days.

22 January 2018

Lava eruption from the summit and lava collapse events characterized Mayon Volcano's eruptive activity in the past 24 hours. Three (3) episodes of volcanic tremor, two (2) of which corresponded to lava fountaining, sixty-four (64) rockfall events and one (1) pyroclastic density current or PDC were recorded by Mayon's seismic monitoring network. Strombolian activity at 10:45 PM and 2:25 AM generated 500m to 200m high lava fountains, respectively, and ash plumes that rose 1,300m above the

summit. The ash plumes were drifted southwest and ashfall was experienced in Brgys. Oas and Guinobatan.

The lava fountains signified an increase in mass eruption rate, as lava was observed to be flowing more voluminously than before, feeding the advancing Miisi lava anew and feeding two (2) new lava flows on the Bonga Gully. Currently, the Miisi lava flow has advanced beyond 3km from the summit crater well within the PDZ.

At 1:00 PM, 22 January 2018, PHIVOLCS raised the Alert Level of Mayon Volcano to Alert Level 4 (hazardous eruption imminent). The Danger Zone is extended to 8 kilometers radius from the summit vent. The public is strongly advised to be vigilant and desist from entering this danger zone. Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ash from eruptions can be hazardous to aircraft.

23 January 2018

At 12:43 PM, 22 January 2018, a dense, five-kilometer tall eruption column was generated by a short-lived phreatomagmatic eruption at Mayon Volcano that lasted eight (8) minutes based on the seismic record. The event generated pyroclastic density currents or PDCs on gullies and barrancos heading the Miisi, Bonga, Buyuan, Basud, San Andres, Buang, Anoling and other minor rivers within four (4) kilometers of the summit vent, well within the Permanent Danger Zone (PDZ). Volcanic ash was blown west and fell on the Municipalities of Guinobatan, Camalig, Oas, Polangui and Iriga City. This was followed by a minor degassing event at 5:51 PM that generated a short, 500 meter-high ash plume. Between 9:37 PM and 5:25 AM the following morning, five (5) episodes of intense but sporadic lava fountaining from the summit crater lasting three (3) to thirty (30) minutes occurred. The lava fountains reached 500 meters to 700 meters high and generated ash plumes that reached 2.5 kilometers to 3 kilometers above the crater. The events fed lava flows on the Miisi and Bonga Gullies, sprayed near-vent lava spatter and fed incandescent rockfall on the summit area.



A total of two (2) explosion-type earthquakes corresponding to the vertical column eruptions, eighteen (18) tremor events, some corresponding to lava fountaining episodes, thirty five (35) rockfall events and (2) pyroclastic density currents or PDCs from lava collapse were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi and Buyuan lava flows have advanced to three (3) kilometers and 200 meters, respectively, from the summit crater. Sulfur dioxide gas emission was measured at an average of 992 tonnes/day on 22 January 2018 prior to the phreatomagmatic event. Electronic tilt and continuous GPS measurements indicate a

sustained swelling or inflation of the edifice since November and October 2017, consistent with pressurization by magmatic intrusion.

24 January 2018

Between 8:54 AM, 23 January 2018 to 03:57 AM 24 January 2018, five (5) episodes of intense but sporadic lava fountaining from the summit crater lasting seven (7) minutes to one (1) hour and twenty (24) minutes occurred. The lava fountains reached 500 meters to 600 meters high and generated ash plumes that reached 3 kilometers to 5 kilometers above the crater. The events fed lava flows on the Miisi and Bonga Gullies, sprayed near-vent lava spatter, and fed incandescent rockfall on the summit area. Pyroclastic density currents or PDCs on gullies heading the Miisi, Lidong/Basud, and Buyuan Channels were also observed. The runout of PDCs on the Buyuan Channel is now exceeding 5 kilometers from the summit crater.



A total of five (5) tremor events corresponding to lava fountaining episodes, three (3) episodes of pyroclastic density current or PDC generation from lava collapse, and numerous rockfall events were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi and Buyuan lava flows have advanced to three (3) kilometers and one (1) kilometer, respectively, from the summit crater. Sulfur dioxide gas emission was measured at an average of 2466 tonnes/day on 23 January 2018. Electronic tilt and continuous GPS measurements indicate a sustained swelling or inflation of the edifice since November and October 2017, consistent with pressurization by magmatic intrusion.

25 January 2018

Between 6:02 AM yesterday to 3:00 AM this morning, six (6) episodes of intense but sporadic lava fountaining from the summit crater lasting 9 mins to 58 mins occurred. The lava fountains reached 400-500 meters high and generated ash plumes that reached 3-5 km above the crater. The events fed lava flows on the Miisi and Bonga Gullies, sprayed near-vent lava spatter, and fed incandescent rockfall on the summit area. Pyroclastic density currents or PDCs on gullies heading the Miisi, Lidong/Basud, and Buyuan Channels were also observed. The runout of PDCs on the Buyuan Channel is now exceeding 5 km from the summit crater.

A total of thirteen (13) tremor events, six (6) of which correspond to the lava fountaining events, two (2) episodes of pyroclastic density current or PDC generation from lava collapse, and numerous rockfall events were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and

margins of the advancing lava flow on the Miisi Gully and by shedding from the summit dome onto the Bonga Gully. Currently, the Miisi and Buyuan lava flows have advanced to 3 km and 1 km, respectively, from the summit crater. Sulfure dioxide gas emission was measured at an average of 1,252 tonnes/day on 24 January 2018. Electronic tilt and continuous GPS measurements indicate a sustained swelling or inflation of the edifice since November and October 2017, consistent with pressurization by magmatic intrusion.



26 January 2018

Between 06:11 AM, 25 January 2018 to 02:31 AM, 26 January 2018, seven (7) episodes of intense but sporadic lava fountaining from the summit crater lasting twenty six (26) minutes to fifty-seven (57) minutes occurred. The lava fountains reached 150 meters to 500 meters high and generated ash plumes that reached 500 meters to 3 kilometers above the crater. The events fed lava flows on the Mi-isi and Bonga Gullies, sprayed near-vent lava spatter, and fed incandescent rockfall on the summit area. Pyroclastic density currents or PDCs on gullies heading the Mi-isi, Lidong/Basud, and Buyuan Channels were also observed. The run-out of PDCs on the Buyuan Channel is now exceeding 5 kilometers from the summit crater.

A total of fifteen (15) volcanic earthquakes, nineteen (19) tremor events, seven (7) of which correspond to the lava fountaining events, one (1) episode of pyroclastic density current or PDC generation from lava collapse, and numerous rockfall events were recorded by Mayon's seismic monitoring network. Rockfall events were generated by the collapsing lava front and margins of the advancing lava flow on the Mi-isi and Bonga Gullies. Currently, the Mi-isi and Buyuan lava flows have maintained their advance to three (3) kilometers and one (1) kilometer, respectively, from the summit crater. Sulfur Dioxide Gas emission was measured at an average of 1,916 tonnes/day on 25 January 2018. Electronic tilt and continuous GPS measurements indicate a sustained swelling or inflation of the edifice since November and October 2017, consistent with pressurization by magmatic intrusion.

Eruption notifications:

Date and Time	Estimated Height of Ash/steam Plume Cloud	Remarks
21 January 2018, 2:59 PM	8,071 ft (2,460m)	Lava Fountaining
22 January 2018, 2:25 AM	656 ft (200m)	Ash/Steam Plume
22 January 2018, 10:22 AM	3,281 ft (1,000m)	Ash/Steam Plume/ Degrassing Event
22 January 2018,	16,404 ft (5,000m)	General Drift of Plume from

12:43 PM		Southwest to South Southwest. Ash/Steam Plume/Cloud color dark grey plume
22 January 2018, 9:37 PM	13,123 ft (4,000m)	General Drift of Plume: Southwest Fountain height 500-700m. Second fountaining event from 9:42-9:50 PM
23 January 2018, 1:32 AM	8,202 ft. (2500m)	Lava fountaining (600m) w/ continuous rumbling sound.
23 January 2018, 4:55 AM	N/A	Lava fountaining (500m) w/ booming sound; obscured plume
23 January 2018, 8:54 AM	16,404 ft. (5000m)	Ash/Steam Plume/Cloud Color Gray, Phreatomagmatic with rumbling sound
23 January 2018, 1:16 PM	9,842 ft. (3000m)	Ash / steam plumes / cloud color: grayish-brown with rumbling sound occurred.
23 January 2018, 5:55 PM	9,842 ft. (3000m)	Lava fountaining (600m), with pyroplastic density currents implaced on Miisi (south sector), Lidong / Basud (east sector) and rumbling sound occurred.
23 January 2018, 9:39 PM	16,404 ft. (5000m)	Ash / steam plumes / cloud color gray, lava fountaining (500m), with rumbling sound
24 January 2018, 2:33 AM	9,842 ft. (3000m)	Lava fountaining (500m), rock falls toward Mabinit and Bonga (southeast sector) with rumbling sound; an approximately 400 meter lava splatter along the 1.1 km lava flow at Bonga gully. The eruption ended at 3:57 AM through visual and auditory observation.
24 January 2018, 6:02 AM	16,404 ft. (5000m)	Ash / steam plumes / cloud color gray, with rumbling sound, pyroclastic density currents towards Mii-si (south sector) and Buyuan (southeast sector)
24 January 2018, 10:50 AM	9,842 ft (3,000m)	General Drift of Plume: Southwest Ash/Steam Plume/ Cloud Color Gray
24 January 2018, 1:54 PM	9,842 ft (3,000m)	General Drift of Plume: Southwest Ash/Steam Plume/ Cloud Color Gray
24 January 2018, 5:58 PM	13,123 ft (4,000m)	General Drift of Plume: Southwest Ash/Steam Plume/Cloud Color Gray Pyroclastic Density Current towards Miisi Lava fountaining (500m) With rumbling sound
24 January 2018, 10:24 PM	9,842 ft (3,000m)	General Drift of Plume: Southwest Ash/Steam Plume/Cloud Color Gray Lava fountaining (500m) With rumbling sound

25 January 2018, 2:02 AM		Lava fountaining (300m) With rumbling sound No visual observation
25 January 2018, 6:11 AM	8,202 ft (2,500m)	General Drift of Plume: Southwest Ash/Steam Plume/Cloud Color Gray Lava fountaining (300m) With rumbling sound
25 January 2018, 8:45 AM	1,640 ft. (500m)	Ash / steam plumes / cloud color: Gray Plume with lava fountaining (150 m)
25 January 2018, 11:33 AM		Grayish brown plume Rumbling sounds detected in Lignon Hill Observatory (LHO)
25 January 2018, 2:28 PM	(3,000m)	General Drift of Plume: West- Northwest Gray plume Rumbling sounds observed in Buang
25 January 2018, 5:45 PM	4,265 ft (1,300m)	General Drift of Plume: Northwest Ash/Steam Plume/Cloud Color Gray Lava fountaining PDC towards Basud channel
25 January 2018, 09:45 PM		General Drift of Plume: Obscured Lava fountaining (500m) With rumbling sound heard from MVO
26 January 2018, 02:31 AM		Ash/Steam Plume/Cloud Color: Obscured With rumbling sound/ no visual/ based on seismic data signature
26 January 2018, 06:26 AM		General Drift of Plume: Southwest Ash/Steam Plume/Cloud Color: white to grayish With rumbling sound
26 January 2018, 11:01 AM		With rumbling sound
26 January 2018, 01:40 PM		With rumbling sound in Buang and obscured plume height

Preparedness Measures and Effects of Mt. Mayon Phreatic Eruption
PRE-EMPTIVE EVACUATION
As of 26 January 2018, 8:00 AM

Region/Province/ Municipality/Barangay	No. of Families Evacuated	Evacuation Center	Date and Time of Evacuation
GRAND TOTAL	16,380		
ALBAY			
Camalig	2,294		
Anoling	410	Anoling ES/Relocation Site	As of 15 January 2018
Cabangan	228	Cabangan ES	As of 15 January 2018
Salugan	261	Camalig North Central School	As of 15 January 2018
Quirangay	394	AECID CNS	As of 15 January 2018
Tumpa	344	CNCS	As of 15 January 2018
Sua	436	CNCS	As of 15 January 2018
Gapo	33	Iluluan ES	As of 23 January 2018
Brgy. 1	36	Caguiba NHS	As of 23 January 2018
Brgy. 3	43		As of 23 January 2018
Libod	103	Palanog ES	As of 23 January 2018
Ilawod	6	Pariaan ES	As of 23 January 2018
Guinobatan	3,623		
Maninila	515	Guinobatan East Central School	As of 15, January 2018
Tandarora	77	Lower Binugsacan Elem. School	As of 15, January 2018
Tandarora (Mabalod)	199	Lower Binugsacan High School	As of 15, January 2018
Malad Bucad Grande	607	Maladbucad Elem. School, Bubulusan ES, Inascan ES, San Jose ES, Quibobongan ES	As of 15, January 2018
Maguiron	224	Maninila/Mayon	As of 23 January 2018
Quitago	202	Muladbucad Pequeño	As of 23 January 2018
Masarawag	1,406	Lower Binugsacan, Guinobatan West Central, Mauraro HS, Bucad Extension	As of 23 January 2018
Maipon	74	Maipon ES	As of 23 January 2018
Doña Tomasa	116		As of 23 January 2018
Muladbucad Pequeño	203	Don Juan ES	As of 23 January 2018
Ligao City	810		
Baligang	367	National Technical Vocational High School, Nasisi, Nasisi Ligao City	As of 15 January 2018
Nabonton	63	Nabonton ES	As of 23 January 2018
Amtic	327	AECID Bldg. Ligao West Central ES, LWCES New Building 1 and 2	As of 23 January 2018
Tambo	53	Tambo Elementary School	As of 23 January 2018
Daraga	2,191		
Miisi	335	Upper Malabog/Malabog Parish	As of 15 January 2018
Budiao	420	BudiaoES, Anislag EC, Anislag PH III, SK Hall	As of 15 January 2018
Banadero	485	Anislag EC, Anislag PH III, Core Shelter houses or relatives in Daraga Resettlement Site Phase 1	As of 15 January 2018
Matnog	342	Anislag Elem. School, Daraga relocation site	As of 15 January 2018

Region/Province/ Municipality/Barangay	No. of Families Evacuated	Evacuation Center	Date and Time of Evacuation
Salvacion	609	Lacag ES and HS	As of 23 January 2018
Tabaco City	1,143		
Buang	226	Mayon ES, Bantayan National HS	As of 23 January 2018
Buhian	65	Bantayan National HS	As of 23 January 2018
Maririoc	222	Tabaco National HS	As of 23 January 2018
Comon	211	Tabaco National HS, TNWCES	As of 23 January 2018
Magapo	255	San Antonio ES	As of 23 January 2018
Oson	164	San Antonio ES, Tabaco North West ES	As of 23 January 2018
Malilipot	799		
Canaway	131	Malilipot Central School	As of 15, January 2018
Calbayog	596	San Jose Elem. School	As of 15, January 2018
San Roque	72		As of 15, January 2018
Legazpi City	3,304		
Padang	174	Buraguís Evac Center	As of 23 January 2018
Buyuan	1,089	Bagumbayan Central	As of 23 January 2018
Matanag	550	Albay Central School	As of 23 January 2018
Bogña	860	Gogon Central School, Gogon HS	As of 23 January 2018
Mabinit	412	Legazpi City HS	As of 23 January 2018
Bigaa	28	EM's Barrio	As of 23 January 2018
Dita	41	Dita ES	As of 23 January 2018
Bagong Abre	150	Oro Site ES	As of 23 January 2018
Sto. Domingo	2,216		
Sta. Misericordia	458	San Andres ES	As of 23 January 2018
Fidel Surtida	404		As of 23 January 2018
Lidong	553	Bical National HS	As of 23 January 2018
San Fernando	424	San Isidro ES	As of 23 January 2018
San Isidro	377	Salvacion ES, Calayucay	As of 23 January 2018

Source: DILG SitRep No. 04 as of 24 January 2018

Preparedness Measures and Effects of Mt. Mayon Phreatic Eruption
SUSPENSION OF CLASSES
As of 27 January 2018, 8:00 AM

PROVINCE/CITY/ MUNICIPALITY	LEVEL	DATE SUSPENDED	DATE RESUMED	REMARKS
ALBAY	All Levels	22 January 2018		Province wide
Guinobatan	Pre-school to Senior High School	January 15, 2018	January 22, 2018	With shifting
Camalig	Pre-school to Senior High School	January 15, 2018	January 22, 2018	With shifting
Tabaco City	Pre-school to Senior High School	January 15, 2018	January 19, 2018	With scheduled emergency classes/shifting
Legazpi City	Pre-school to Senior High School	January 15, 2018	January 19, 2018	With the decampment of evacuees
Sto. Domingo	All Levels	January 22, 2018		Conducted a meeting with LDRRMC & DEPED Principal. LCE announced suspension of classes, preparation for evacuation of marginalized sector within 6kms.
Ligao City	Suspension of Classes at Baligang Elementary School	January 15, 2018	January 19, 2018	With scheduled emergency classes/shifting
Daraga	All Levels	January 15, 2018	January 22, 2018	Municipal wide
Bacacay	All Levels	January 22, 2018		
Oas	All Levels	January 22, 2018		
Polangui	All Levels	January 22, 2018		
Camarines Sur Rinconada Area (Bato, Nabua, Iriga, Balatan, Bula, Bao and Bui)	All Levels	12:00 NN, 22 January 2018		Due to volcanic ash from Mayon Volcano

Sources: DILG SitRep No. 03 as of 22 January 2018 and OCDRO V

Preparedness Measures and Effects of Mayon Volcano Eruption

STATUS OF ROADS AND BRIDGES

Status as of 10:00 AM, January 26, 2018

ROAD SECTION / BRIDGE	REMARKS	STATUS	
Region V			
Albay 1st DEO			
Daang Maharlika Jct.-Legazpi City-Sto. Domingo-Tabaco-Tiwi-Cam. Sur Bdry.	K0575	Landslide	Passable as per email received dated 01/18/2018 at 11:33 am
	K0581	Landslide	Passable as per email received dated 01/18/2018 at 11:33 am
	K0540+-936 - K0584+560 (Part of Lidong, Sto. Domingo and Rawis, Legazpi City)	Poor visibility due to ashfall	Passable / Road section with ashfall is already clear as per email received dated 01/22/2018 at 4:21 pm
Ligao-Tbaco Road	K0516+-845 - K0518+000 (Buang Section)	Ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
Albay 2nd DEO			
Daang Maharlika, Salugan Camalig, Albay	K05717+300	Silted	Passable as per email received dated 01/18/2018 at 11:33 am
Albay 3rd DEO			
Daang Maharlika Road	Paulog-Tuburan Section	Poor visibility due to ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
	Travesia Guinobatan-Calzada Ligao	Poor visibility due to ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
	Guinobatan-Ligao-Polangui Section	Poor visibility due to ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
	Travesia-Banao Section	Hardly passable due to heavy ashfall with poor visibility	Passable as per email received dated 01/25/2018 at 2:06 pm
Ligao-Tabaco Road	Tuburan-Bay-Batang-Nasisi-Basag Section	Poor visibility due to ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
	Batang Nasisi-Ligao Section	Hardly passable due to fog with slight ashfall	Passable as per email received dated 01/25/2018 at 2:06 pm
Ligao-Pioduran Road	Tomollin-Cavasi-Tinampo Section	Poor visibility due to ashfall	Passable as per email received dated 01/22/2018 at 6:51 pm

SOURCE: DPWH

PREPAREDNESS MEASURES AND EFFECTS OF MAYON VOLCANO ERUPTION
COST OF ASSISTANCE
As of 27 January 2017, 8:00 AM

City / Municipality	Cost of Assistance					
	DSWD	DOH	OCD	LGUs	NGOs	TOTAL
GRAND TOTAL	₱17,123,024.72	₱15,082,733.76	₱1,213,701.10	₱2,849,124.62	₱3,848,249.68	₱40,116,833.88
ALBAY						
PLGU Albay	₱14,868,024.72	₱2,698,930.00	₱498,149.80		₱2,753,563.92	₱20,818,668.44
PDRRMC Catanduanes		₱58,240.00				₱58,240.00
Bicol Regional Training and Teaching Hospital (BRTTH)	-	₱4,000,000.00		-	-	₱4,000,000.00
Mobilization of Teams	-	₱650,000.00	₱78,936.06			₱728,936.06
Josefina Belmonte Duran Memorial Hospital (JBDMH)		₱100,000.00				₱100,000.00
Ziga Memorial District Hospital (ZMDH)		₱100,000.00				₱100,000.00
DepEd V			₱165,749.00			₱165,749.00
DOH V		₱7,087,215.10				₱7,087,215.10
Camalig	-	₱100,054.84	₱58,773.78	₱741,028.00	₱518,821.00	₱1,418,677.62
Daraga	₱902,000.00	₱44,097.69	₱58,773.78	₱1,261,743.00	₱19,020.70	₱2,285,635.17
Guinobatan	-	₱87,859.68	₱58,773.78	-	₱67,818.50	₱214,451.96
Legazpi City (Capital)	₱1,353,000.00	₱10,350.70	₱59,449.78	₱681,453.62	₱20,640.00	₱2,124,894.10
Ligao City	-	₱19,020.70	₱58,773.78	-	₱19,020.70	₱96,815.18
Mallipot	-	₱10,985.70	₱58,773.78	₱164,900.00	₱271,440.00	₱506,099.48
Santo Domingo (Libog)	-	₱27,041.79	₱58,773.78	-	₱114,046.00	₱199,861.57
Tabaco City	-	₱88,937.56	₱58,773.78	-	₱63,878.86	₱211,590.20

Source: DSWD Dromic Report No. 19 on the Mayon Phreatomagmatic Eruption as of 26 January 2018, 6PM, DOH HEARS and OCD RO V SitRep #26 as of 24 January 2018, 6PM