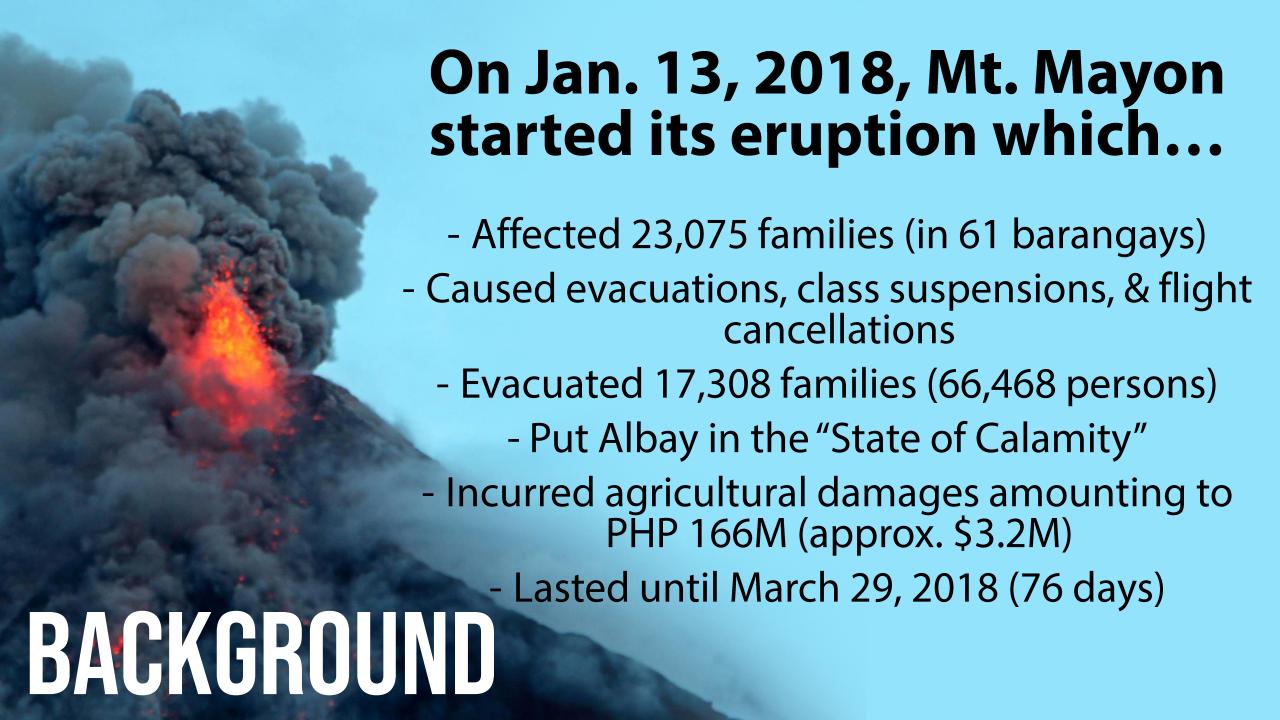


- Most perfect-coned shape volcano
- Philippine's most active volcano
- Home to about 277 flora & fauna species
- Source of livelihood for residents nearby
- Cause of disaster when it erupts

MAYONVOLGANO





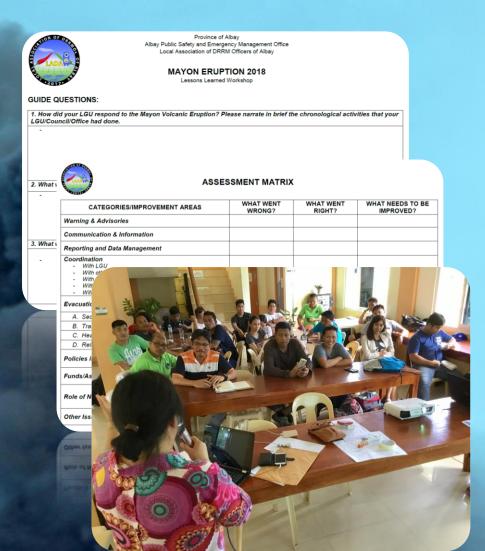
Although we can consider that the recent Mayon operations was generally successful, we still have a lot to work on.

How do we improve the disaster management practice & policies in Albay for the next Mayon eruption?



This research looked into:

- Response activities did by the local gov'ts in the Mayon Cluster through their Local DRRM Offices;
- 2. Assessment of various areas in the response operation; and
- 3. Learnings & realizations of LDRRMOs after the volcanic eruption.



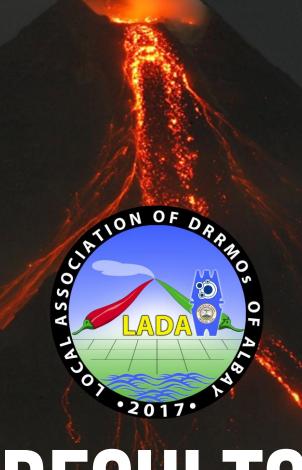
METHODS

LESSON LEARNED WORKSHOP

- To see the positive & negative aspects of the operations AND to create an avenue to discuss successes, unexpected results, & innovative suggestions (White & Cohan, 2010)
- Done through (1) workshop forms with guide questions & assessment matrix; &
 (2) presented through focus group discussion (FGD)



- LADA's Proposed Volcanic Eruption Response Protocol for LGUs; &
- 2. LADA's Practice and policy recommendations for various response areas



CLATION OF ORRANGO SSA LADA ORANGO OR

LADA's Proposed
Mayon Volcanic
Eruption Protocol

RESULTS

PROPOSED RESPONSE PROTOCOL

- Consolidated steps did by the different LGUs to respond to the hazard;
- List of activities that have to be done in chronological order & duration of each;
- It is a four-month plan to guide leaders and disaster managers on how to respond in the local level.

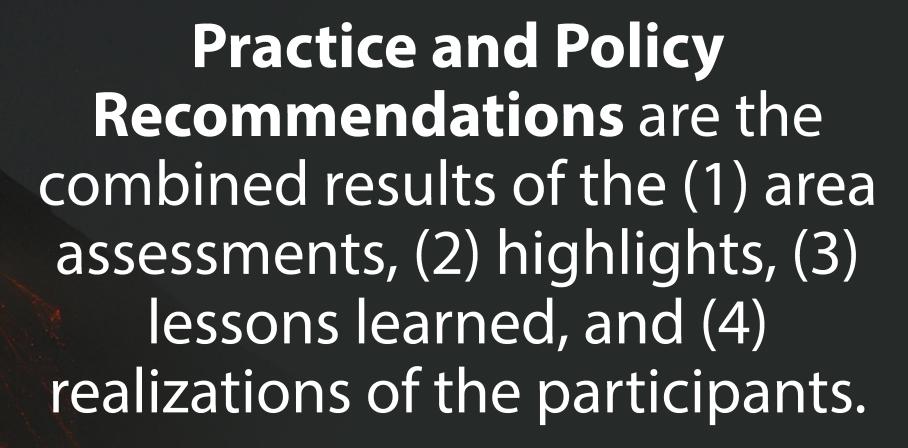


Mayon Volcanic Eruption Protocol

Proposed Mayon Volcanic Eruption Standard Operating Procedure

	ACTIVITIES	MONTH 1											MONTH 2				MONTH 3				MONTH 4			
NO.					Week 1				W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	
		D1	D2	D3	D4	D5	D6	D7	VV Z	W3	***	WJ	WO	***	WO	***	WIO	****	VV 12	WIS	****	Wij	Wild	
1	Conduct meeting with the Local Chief Executive, Municipal DRRM Council, Barangay DRRMCs, and other stakeholders																							
2	Activate Operation Center for Monitoring, Warning, and Communication																							
3	Meet and reorient the Evacuation and Camp Management Committee regarding evacuation procedures																							
4	Issue evacuation advisories to residents within the danger zones																							
5	Tap PNP/BFP and barangay officials to maintain Peace and Order in the evacuation centers																							
	Tap volunteers and MDRRMC rescue team to aid in communication																							
	Draft relevant Executive Orders addressing specific needs in the LGU																							
8	Issue class suspension advisories to affected LGUs & schools																							
9	Conduct BDRRMC Meeting per Barangay (every after 2 weeks)																							
10	Evacuate residents from the PDZ and EDZ																							
11	Assess camp needs																							
12	Prepare & update master list of evacuees per evacuation center																							
13	Distribute relief goods																							
14	Install basic lifelines in evacuation centers																							
15	Monitor, coordinate, and report camp activities (Relief distribution, donation, etc)																							
16	Construct temporary shelters and temporary learning spaces (TLS) in evacuation centers																							
17	Establish communication systems in evacuation centers																							
18	Conduct psychosocial activities in evacuation centers																							
	Conduct EC-, barangay-, and municipal-level meetings for updates and reports																							
20	Submit reports to concerned agencies																							
21	Resume classes in TLS																							
22	Implement alternative livelihood programs for affected families																							
23	Order & conduct of decampment (accdg. to Mayon alert level)																							
24	Update list of households and population at risk to lahar																							

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- 22 Linpleng of alternative livelihood programs for affected families
 - instanto charses in TL
- 20 Sub At reports to concerned agencie
- 19 Conduct EC., barangar, and municipal-level meetings for upd.



Practice & Policy Recommendations for Various Areas

RESPONSE OPERATION AREAS

- Warning & Advisories
- Communication & Coordination
- Information Management
- Evacuation Management
- Disaster Managers
- Infrastructure
- Local Policies & Plans
- Practice & Policy Recommendations for Various Areas
- RESULTS



WARNING & ADVISORIES

- Warnings and advisories <u>must be given in</u> <u>advance</u> to give lead time for residents and local governments to prepare.
- Monitoring devices & equipment must <u>always</u> be in-place, functional, & regularly upgraded.
- Persons responsible for the monitoring & warning must always be on-site.
- Markings & signages for the permanent and extended danger zones <u>must be properly</u> <u>delineated, conspicuous, and upgraded</u> as well.
- Information dissemination must be done down to the barangay and household levels.



COMMS & COORDINATION

- <u>Proper coordination</u> must be observed by any actor who will be involved in the response operation.
- These actors must collaboratively set a clear communication & coordination protocol between & among LGUs, NGAs, NGOs, private donors, and other stakeholders during response operations to ensure the safety of the people and efficiency of resource use (manpower, time, funds, goods, etc.).
- Recommendations Coordination meetings shall be <u>set in</u> advance and be properly communicated to all involved to give lead time for the participants to prepare.



INFORMATION MANAGEMENT

- LGUs shall (1) <u>hire permanent personnel</u> with appropriate skills and qualifications to be incharge of data gathering and information management;
- (2) <u>allocate funds</u> to upgrade the information technology (IT) equipment to be used, and
- (3) ensure that the Local DRRM Council secretariat has reliable & fast internet connectivity with or without power supply.
- Recommendations <u>Data flow protocol</u> must also be established for Various Areas to ensure the maximum dissemination of information to all offices/agencies needing it.



- (1) security,
- (2) transportation,
- (3) health, water & sanitation,
- (4) welfare goods distribution

Practice & Policy Recommendations for Various Areas

TRANSPORTATION

- LGUs shall <u>purchase additional vehicles</u> to be used to (1) transport residents during evacuation and decampment and (2) welfare goods during pick-up, delivery, and distribution.
- They must also establish <u>protocol on</u> the <u>proper use of the transport vehicle</u>.

Practice & Policy Recommendations for Various Areas

SECURITY

- Office of Civil Defense (OCD) V shall <u>augment their</u> force proportional to the need of the LGUs and magnitude of hazard.
- The LGUs, in coordination with the police force & the barangay public safety office, shall deploy adequate number of security personnel & ensure proper scheduling of security forces at ECs & barangays to prevent crime incidents, looting, & return of evacuees to their homes w/o decampment order yet.
- Camp managers shall orient evacuees to raise awareness on various possible security issues that might arise during their stay at the evacuation centers.



HEALTH & WATSAN

- Restrooms, wash areas, and cooking areas in the evacuation centers <u>must be adequate and</u> <u>safe.</u>
- Potable water supply must be available in or near the evacuation center.
- Local health department and LGUs shall purchase needed medicine and upgrade health, water, and sanitation equipment.
- Medicines and health equipment shall also be prepositioned to areas that need those.

Practice & Policy Recommendations for Various Areas



HEALTH & WATSAN

- Camp managers shall also (1) strictly follow the <u>standard ratio</u> (room-to-number of occupant) to prevent occurrence of diseases and (2) <u>educate and empower</u> evacuees to observe proper housekeeping, sanitation, and waste segregation while staying at the evacuation centers.
- Mental health must also be addressed by conducting regular and appropriate <u>psycho-</u> <u>social activities.</u>

Practice & Policy Recommendations for Various Areas

WELFARE GOODS FOR DISTRIBUTION

- The LGUs, through the local social welfare and development office, shall <u>establish a centralized warehouse</u> that can house all the welfare goods for ease of storage and accounting.
- Donors and donated goods must be properly recorded and accounted for.
- During operations, the LGUs must <u>hire</u> additional manpower for faster pick-up, delivery, and distribution.





- After the response operation, LGUs realized that they lack the adequate manpower to handle the long-term response operations.
- Factor contributing to this is the <u>lack or limited government budget to hire adequate manpower</u> (with regular employee status and adequate benefits) needed in the operation.
 - LGUs and NGAs must hire additional manpower during long-term disaster response operation

Practice & Policy Recommendations for Various Areas



INFRASTRUCTURES

- The area of the LGU operation centers, where the disasters managers stay, <u>must</u> <u>be large enough to cater various response</u> <u>activities</u> (meetings, press briefings, proper sleeping area, kitchen dining, etc.).
- LGUs must <u>establish permanent</u> <u>evacuation centers</u> (with adequate facilities and basic lifelines) outside school campuses and danger zones.

Practice & Policy Recommendations for Various Areas

Practice & Policy Recommendations for Various Areas

RESULTS

LOCAL POLICIES

- Integrate risk assessment & procedures on evacuation and decampment to local DRRM and contingency plans;
- The Provincial Council shall <u>pass a resolution</u> <u>prohibiting the settlement</u> of residents within the 6-kilometer permanent danger zone of the Mayon Volcano.
- LGUs and local councils should also <u>update their</u> respective policies before, during, and after response operations given the unforeseen changes in how operation works and how people behave.

This shall be done in close coordination and consultation with line agencies and stakeholders.



LOCAL PLANS

- <u>Risk assessments shall be integral part</u> of the local DRRM and contingency plans of the communities
- Evacuation & decampment procedure shall be clearly stipulated & incorporated in the local plans and be properly communicated to the community members;
- Reorientation of barangay officials & camp management management (evacuation-decampment procedures, assignment of ECs, new legal issuances, and other protocols);
- Residents currently living in the permanent and extended danger zones must be prioritized in the relocation efforts.
- Ultimately, LGUs realized that they should craft their plans to prevent disasters, not to respond to it.

Recommendations for Various Areas

RESILTS

- The Province of Albay and the 18 LGUs, especially the nine (9) LGUs in the Mayon Cluster, still have a lot to do.
- As we make an effort to learn from our experience, changes have to done not only in the local governments, but also in the national government agencies, NGOs, other stakeholders, and our residents.



- The research could further be improved if the Office of Civil Defense will conduct lesson learned workshop with more participants representing the LGUs, NGAs, NGOs, and evacuees themselves;
- Conduct of LLW should always be done after every major disaster (caused by any hazard);
- Results shall be immediately submitted to appropriate officials, agencies, & stakeholders for them to read, reflect, and act on it.

RECOMMENDATIONS



