

## M7.0 Earthquake in Northern Luzon

Situation Report #1

July 27, 2022

11:00 pm

### Situation Overview

A 7.3 magnitude earthquake was recorded yesterday at around 8:43 in the morning in Lagangilang, Abra in Cordillera Region. Its impact was also experienced in other surrounding areas in Northern Luzon as well as the National Capital Region. The Philippines Institute of Volcanology and Seismology (Phivolcs) later revised the magnitude to 7.0 after further analysis. Still, the earthquake was the strongest to have hit the Philippines in years. An hour after the report, PHIVOLCS recorded several areas in Ilocos Sur with a reported Intensity of V and above.

Intensity	Areas Affected
Intensity VI	Ilocos Sur (Vigan City, Sinit, Bantay, San Esteban); Pangasinan (Laoac) and Benguet (Baguio City)
Intensity V	Ilocos Sur (Magsingal, San Juan); Pangasinan (Alaminos City and Labrador), etc.

As the 7-magnitude quake was centered in the mountainous province of Abra, it set off landslides and caused extensive damage. The Ilocos Center for Research, Empowerment, and Development (ICRED) recorded several reports of infrastructure damage on the ground. In Vigan City, Intensity VI-VII was felt, destroying churches, houses, and other establishments. Light and semi-concrete residences were destroyed or partially damaged while heritage churches and buildings also obtained partial damage including Vigan Cathedral and Bantay Bell Tower. Roads within the city were crumpled and damaged as debris from various infrastructures was scattered by the strong tremors. Several vehicles were also destroyed in the process.

Electricity and water supply in the city were also affected by the earthquake. Powerlines were cut off due to collapsed structures while water supply became unusable as water coming from house faucet were dirty. Other than this, commercial establishments including the public market were closed as LGU officials conducted infrastructures assessments. With this, food and other important things needed by the affected populations are somewhat affected.

In the assessment conducted by the ICRED, a similar situation was also reported in different municipalities including Sto. Domingo, Banayoyo, Santa, Santiago, San Esteban, San Juan, where houses, roads and other infrastructures were also partially or totally damaged. Tremors were also felt in Ilocos Norte and La Union which resulted in some minor damages to infrastructure. Some district hospitals were also partially damaged during the earthquake.



*Partially destroyed house in Vigan City, Ilocos Sur*

Banaoang bridge which connects the Manila North Road across Santa and Bantay in Ilocos Sur is now closed for infrastructure integrity assessment. Affected LGUs also declared an indefinite suspension of classes at all levels and work in both the public and private sectors.

Meanwhile, in the initial report provided by our regional center Cordillera Disaster Response and Development Services, Inc (CORDIS-RDS), all the provinces in the Cordillera Region also felt the strong tremor, particularly in La Trinidad town in Benguet Province which is also one of the worst hit by the 7-magnitude earthquake. There are reports of casualties and damage to roads, shelters, schools, and buildings. Power interruption in some areas is also reported. Strong rains are being experienced in the municipalities of Malibcon and Licuan-Baay which is feared could trigger a landslide.

Widespread power supply interruptions were also reported in some parts of Baguio City, Benguet, Mt. Province, and parts of Kalinga Province. Affected provinces suspended work and classes for both public and private agencies as LGUs are conducting infrastructure assessments. According to Renato Solidum, director of the state seismology agency, the 7-magnitude earthquake was followed by more than 200 aftershocks, thus, strong aftershocks are still expected. Meanwhile, thousands of employees particularly in Quezon City evacuated their offices due to the strong tremors experienced in several parts of Metro Manila.

As of this writing, our two regional centers (CORDIS and ICRED) continue in conducting a more detailed assessment to process to assist in streamlining relief efforts in the affected areas, especially in the remote or hard-to-reach affected communities.

*Source: Philippine Institute of Volcanology and Seismology (PHILVOLCS-DOST), Ilocos Center for Research, Empowerment, and Development, Cordillera Disaster Response and Development Services*

### Affected Populations

According to the Department of Public Works and Highways, the powerful earthquake also resulted in **14 national roads** in the province of Abra and the Cordillera Administrative Region (CAR) being impassable.

Name	Area	Caused of closure	Status
Kalinga-Abra Road Ableg Section	Kalinga	Landslide	Ongoing clearing operation

Monamon- MP road	Bauko,	Landslide	On-going clearing operation
Gonogon Sadsadan RD	Gonogon, Bontoc	Landslide	Ongoing clearing operation
Ambuklao Rd	Beckel	Landslide	Ongoing clearing operations
Daldalacan Malucsad Magsilay Rd	Pasil Kalinga	Landslide	Ongoing clearing operations
Keweng-Deepey Road in Barangay Tinongdan,	Benguet	Landslide	Not passable
Ilocos- ABra Rd	San Quintin, Abra	Cracks	One lane passable
Ifugao-Buguias, Benguet Road	Tinoc, Ifugao	Landslide	One lane passable & ongoing clearing
Bagong-Balluay Road	Sablan	Landslide	Not passable
Baquero-Quisodan Road	Abra	Landslide	Not passable
Singit-Poblacion Road	Abra	Landslide	Not passable
Kasalalan-Sucao Road	Abra	Landslide	Not passable
Bituen-Lacub Road	Abra	Landslide	Not passable
Baquero-Poblacion Road	Abra	Landslide	Not passable
Kennon rd	Benguet		Close
Marcos highway			One lane passable
Beling-Belis	Kapangan	Landslide	Not passable
Poblacion Kibungan	Benguet	Landslide	On going clearing
Ben Palispis Highway along Ifugao Pasalubong	Tuba	Landslide	One lane passable, on going clearing
Poblacion-Balbalasang Road	Balbalan	Landslide	Clearing on going
Road going to Uma	Lubuagan		Not passable
Gov. Bado Dangwa Rd, Pulag section	Benguet	Landslide	Closed
Sipilan Junction to Lup-ot Rd. Palidan to liwang Daliping	Benguet	Landslide	Closed
Lup-ot to Beyeng Rd, Beey-Cangaw	Benguet	Landslide	Closed
Liwang to Masalin Rd, Tood Section Gambang	Benguet	Landslide	Closed
Yabyab to labay rd		Landslide	Closed
Sookan to Gambang rd, Tood section, Gambang Bakun		Landslide	Closed

In the initial data transmitted by the CORDIS-RDS, **24 families of 138 individuals** are currently staying in the evacuation center in Tandiangan, National Housing Authority in Benguet. A total of **23 houses** sustained damage in Tuba Benguet while **one** was totally destroyed in La Trinidad. A total of **13 schools** were reported to have sustained damages.

Province	Municipality	Name of School	Damage
Abra	Bucay	Dugong ES	Infrastructure damage
Mtn. Province	Tadian	Tadian ES	Cracks along the grounds
		New Lubon ES	landslide
		Batayan ES	ground cracks, landslide along provincial road (anove the school)
		Mabalite ES	cracks in walls and ground
		Ilang Primary School	Crack along the ground and land slide
		Tue ES	Land slide
		Ballaoa National HS	Land slide
		Bunga Nationa HS	crack along the grounds, collapse of ceiling
		Sumadel ES	wall collapse
		Ballaoa ES	water tank, crack in walls
		Tadian School of Arts and Trade	land slide (rock fall), ground cracks
		Lubon ES	ground and wall cracks

The following reports were provided by the National Disaster Risks Reduction Management and Councils (NDRRMC).

- A Total of **1,248 individuals** were pre-emptively evacuated.
- At least **five people died**, two people were killed in Benguet province; one in Abra province; and one more in another province, **while 64 individuals** were reportedly injured.

#### Emergency Response Efforts

- CDRC along with its regional center on the ground continues to monitor the situation and has begun issuing situation reports. CorDis–RDS and ICRED immediately activated their emergency response protocols and started data gathering (DNCA).
- Regional centers ICRED and CORDISrDS have deployed their rapid assessment teams to conduct damages, needs and capacity assessment (DNCA) The gathered assessment data and results are now being used to develop an appeal in able to reach a wide range of affected communities through direct emergency relief assistance.

#### Resources Available

- Standby emergency funds
- Prepositioned goods at the CDRC warehouse

- Monetary and in-kind donations

### Expressed Needs

Initial Assessments have indicated immediate needs include;

- Food supplies
- Clean water
- Hygiene kits
- Facemasks
- Primary medicines
- Sleeping materials
- Shelter kit

### Coordination

Regional Centers

1. Ilocos Center for Research, Empowerment, and Development, Inc. (ICRED)
2. Cordillera Disaster Response and Development Services, Inc. (CorDis-RDS)

Partners

3. National Alliance for Filipino Concerns (NAFCON USA)
4. Foundation for Philippine Progress, Inc.
5. Disaster Risk Reduction Network Philippines (DRRNetPhils)
6. iVolunteer Philippines
7. Diakonie Katastrophenhilfe

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