Building Disaster Resilience: How can individuals and communities prepare?



















What is a Disaster?

Serious disruption of the functioning of a community or a society



Human losses

Material losses

Economic losses

Environmental losses

Photo credit:: Google Images





Natural



- ✓ Typhoons
- √ Floods
- ✓ Storm Surges
- ✓ Earthquakes
- ✓ Tsunamis
- ✓ Volcanic eruptions
- ✓ Landslides
- ✓ Drought

Human-Induced



- ✓ Fires
- ✓ Accidents
- ✓ Aircraft crash
- ✓ Pollution
- ✓ Civil disturbance
- ✓ Terrorist attacks
- ✓ Explosions
- ✓ Armed conflict

Pacific Ring of Fire

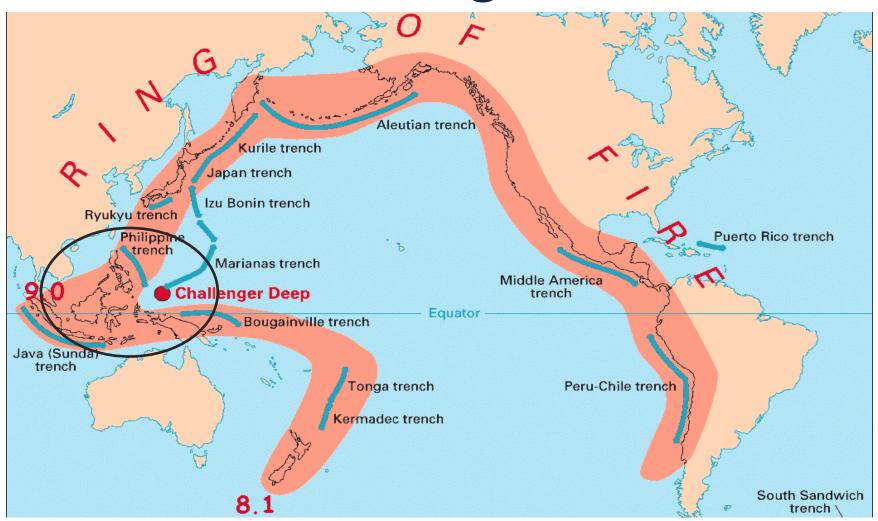
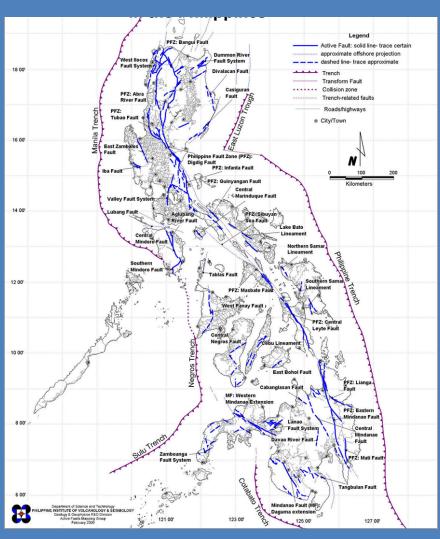


Photo credit: wikipedia.org

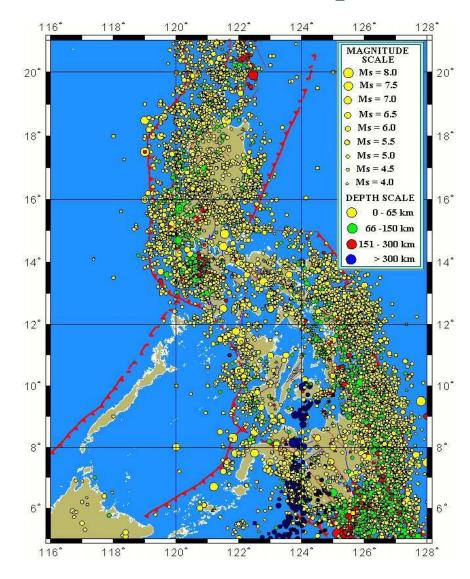




Active Faults and Trenches



Seismicity



Reference: DOST PHIVOLCS

Pacific Typhoon Belt

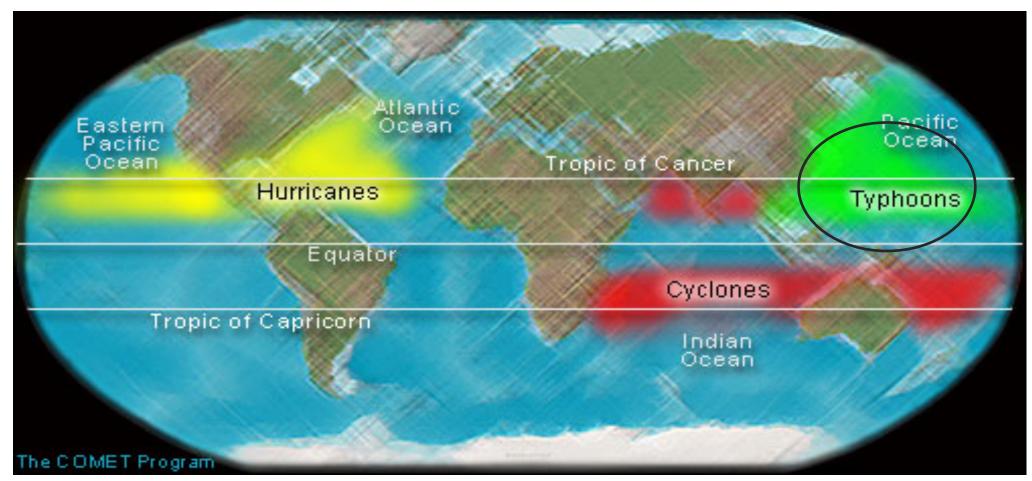


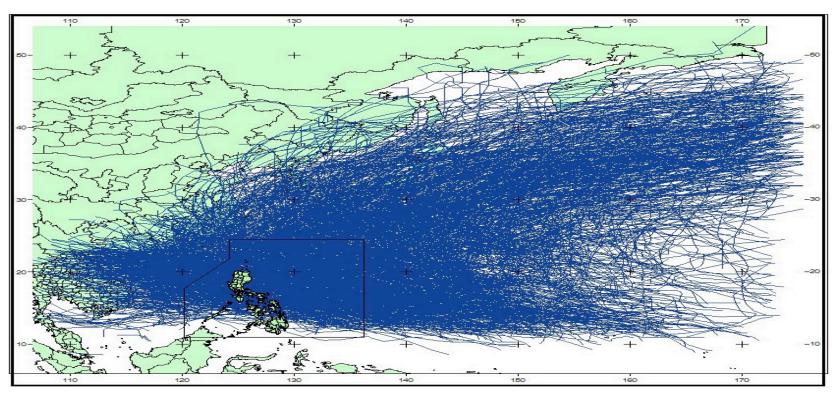
Photo credit: Google Images





Philippines: "Exporter" of Typhoons

Tracks of Tropical Cyclones in the Western North Pacific from 1948 to 2010









Climate Change



Photo credit: Google Images

Photo credit:: Google Images







Effects of Disasters





Photo credit: Google Images





WORLD RISK INDEX REPORT 2018

3rd in 2011 – 2013 2nd in 2014 3nd in 2015 – 2017 3rd in 2018 9th in 2019

Rank	Country	Risk
1.	Vanuatu	56.71
2.	Antigua and Barbuda	30.80
3.	Tonga	29.39
4.	Solomon Islands	29.36
5.	Guyana	22.87
6.	Papua New Guinea	22.18
7.	Brunei Darussalam	21.68
8.	Guatemala	20.69
9.	Philippines	20.69
10.	Bangladesh	18.78
11.	Cape Verde	18.02
12.	Fiji	17.83
13.	Costa Rica	17.37
14.	Djibouti	16.46
15.	Timor-Leste	16.39

Study by: UN University Institute for Environment and Human Security Reference: https://reliefweb.int/sites/reliefweb.int/files/resources/WorldRiskReport-2018.pdf





Paradigm Shift in DRRM

Disaster Risk Reduction and Management

Use directives, skills and capacities

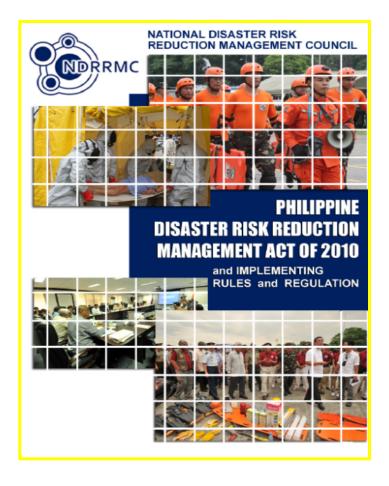
Implement strategies and policies

Lessen impacts and possibility of disaster





Legal Basis: Republic Act 10121







Then: REACTIVE





Now: PROACTIVE

National Disaster Risk Reduction and Management Council





Highest organized and authorized body in DRRM in the Philippines.





NDRRM Framework

Safer, adaptive and resilient Filipino communities toward sustainable development Preparedness Response Rehabilitation & RISKFACTORS **Mainstreaming** Hazards DRR and CCA in **Exposures** Planning and Vulnerabilities **Implementation** Capacities Response Preparedness Prevention & Mitigation Rehabilitation & Recovery





DRRM Network

- 1 NATIONAL DRRM COUNCIL
- 17 REGIONAL DRRM COUNCILS
- PROVINCIAL DRRM COUNCILS
- 145 **CITY** DRRM COUNCILS
- 1,489 MUNICIPAL DRRM COUNCILS
- 42,044 BARANGAY DRRM COMITTEES

Reference: Philippine Statistics Authority





"For each dollar spent on disaster preparedn ess, an average of four dollars is save don disaster response and recovery"

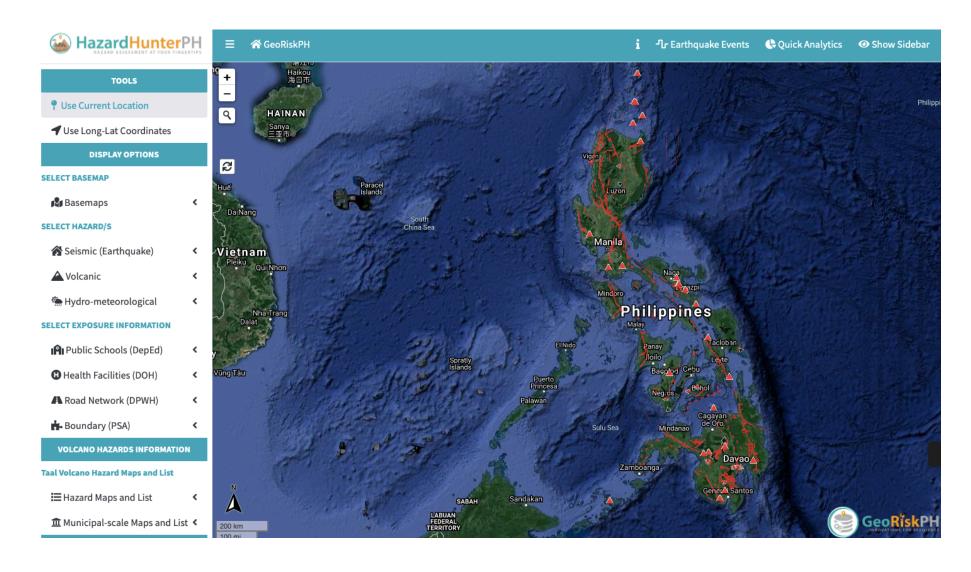
Whole-of-Nation Approach



Prepare your families



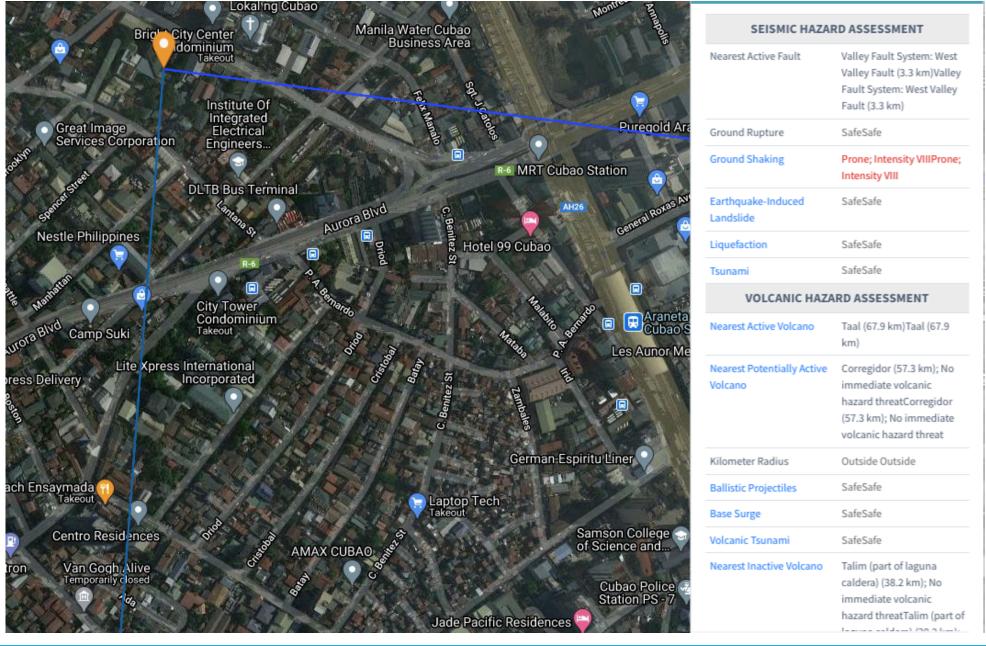




Understanding Hazards











Evacuation Planning

Where will we evacuate?

Which routes will we take?

How will we get there?



Photo credit: cdp.org







Prepare your Go Bags





Coordinate with local authorities



Photo credit: Dinagat Islands





Follow evacuation procedures of the local government



Photo credit: cnnphilipines.org





Use Social Media to promote DRR Awareness











BEFORE

KNOW THE HAZARDS IN YOUR AREA:

Familiarize yourself with the following (Alamin ang mga sumusunod):

- Fire extinguishers
- Medical kit
- Exit Routes
- Evacuation Plan

Check your house for weak points and have them repaired if necessary. (Siguraduhing matibay ang bahay at ipakumpuni ang mga sirang bahagi nito.)

Store harmful chemical and flammable materials properly. (Ayusin ang pag-imbak ng mga nakalalasong kemikal at mga bagay na maaaring maging sanhi ng sunog.)

Secure heavy furniture and hanging objects. (Siguraduhing ligtas ang pagkakalagay ng mga mabibigat at mga nakabiting bagay.)

Prepare your family's GO BAG containing items needed for survival. (Ihanda ang GO BAG na naglalaman ng mga pangangailangan ng pamilya.)

Participate in office and community earthquake drills. (Makilahok sa mga pagsasanay ukol sa lindol.)







DURING

WHEN INSIDE A BUILDING, STAY CALM AND:







DO NOT ATTEMPT TO RUN. Duck under a strong table and hold on to it. Stay alert for potential threats. (Yumuko at magtago sa ilalim ng matibay na mesa at kumapit sa mga paa nito. Manatiling alerto sa mga banta ng panganib sa iyong paligid.)

Stay away from glass windows, shelves and heavy objects. (Umiwas sa mga bintanang salamin, mga aparador at mabibigat na gamit na maaaring mahulog.)

After the shaking stops, exit the building and go to the designated evacuation area. (Matapos ang pagyanig, agad na lisanin ang gusali at pumunta sa evacuation area.)

WHEN YOU ARE OUTSIDE, MOVE TO AN OPEN AREA!

Stay away from buildings, trees, electric posts and landslide prone areas. (Lumayo sa gusali, puno, poste at mga lugar na may panganib ng pagguho ng lupa.)

If you're in a moving vehicle: stop and exit the vehicle then go to an open area. (Kapag nagmamaneho: itabi at ihinto ang sasakyan at lumikas sa ligtas na lugar.)

AFTER

STAY ALERT FOR AFTERSHOCKS!

Assess yourself and others for injuries. Provide first aid if necessary. (Suriing ang iyong sarili at mga kasama kung may tinamong pinsala. Magbigay ng paunang lunas kung kailangan.)

Prioritize the needs of older persons, pregnant women, PWDs and children. (Unahin ang mga pangangailangan ng mga matatanda, buntis, may kapansanan at mga bata.)

If in a coastal area and there is threat of a tsunami, evacuate immediately. (Kapag nasa tabing dagat at may banta ng tsunami, agad na lumisan at pumunta sa ligtas na lugar.)

Check for spills of toxic and flammable chemicals. (Suriin kung may natapong nakalalasong kemikal at mga bagay na maaaring pagmulan ng sunog.)

Stay outside of the building until advised that it is safe to return. (Huwag bumalik sa loob ng gusali hanggang walang abiso na ligtas na ito.)

Check for damages in water and electrical lines, and gas or LPG leaks. (Suriin ang mga linya ng tubig at kuryente para sa maaring pinsala. Suriin din ang tangke ng gas o LPG.)

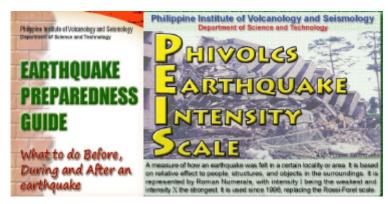






Information, Education, and Communication Campaigns

IEC Materials



Project DINA



Nationwide Simultaneous Earthquake Drill



Community-level Campaigns







Ensure the preparedness of your organization.











Organize Disaster Control Group

HEADS

CHAIR

ASSISTANT CHAIR

SERVICE TEAMS

SECURITY

WARNING

EVACUATION

RELIEF

MEDICAL

FIRE

DAMAGE CONTROL

SUPPORT TEAMS

SUPPLY

COMMUNICATION

TRANSPORTATION





Join in disaster preparedness training



Photo credit: Asia-pacific.undp.org, Wikipedia.org





Training Courses offered by the Office of Civil Defense



Incident Command System

Contingency Planning

Public Service Continuity Planning

Emergency Operations Center

Community First Responder

Community-based Disaster Risk Reduction and Management

Rapid Damage Assessment and Needs Analysis

Post-Disaster Needs Assessment



Participate in drills

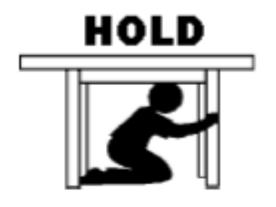


Quarterly Nationwide Simultaneous Earthquake Drill









Video ©

For a safer, adaptive, disaster resilient Filipino Communities!





THANK YOU!



