

Accessing the DOST-PHIVOLCS Tsunami Hazard Maps

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OUTLINE

- I. How to obtain PHIVOLCS tsunami hazard maps
- II. Data formats available
- III. How to overlay PHIVOLCS tsunami hazard maps
- IV. Notes on PHIVOLCS Tsunami Hazard Maps

How PHIVOLCS Provides Tsunami Hazard Maps

There are three official access paths:

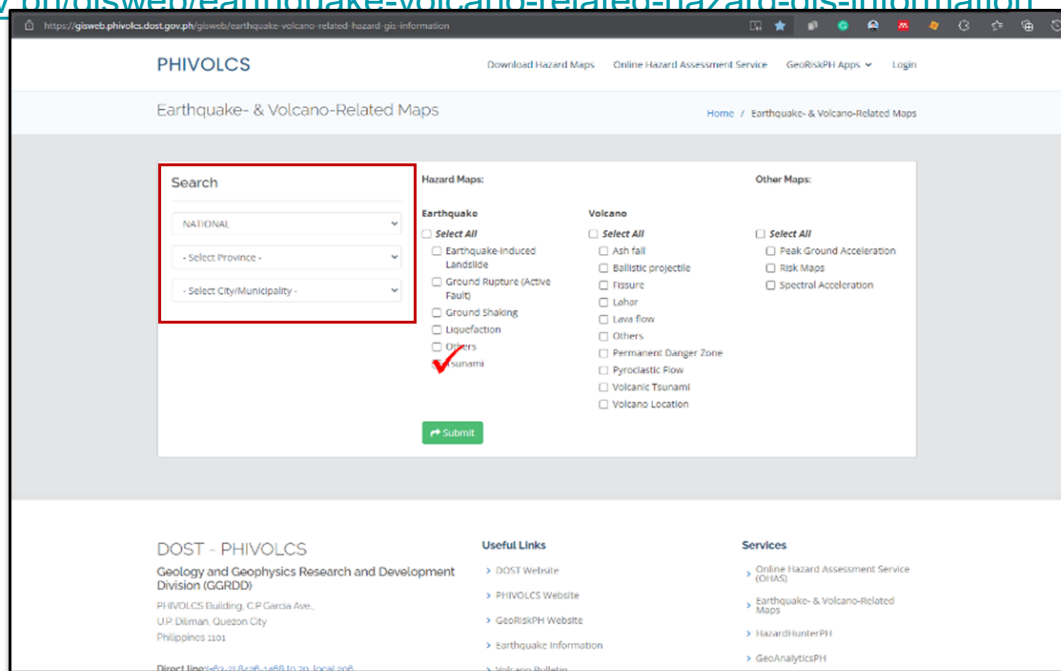
1. PHIVOLCS Website - GISWeb Database
2. HazardHunterPH
3. PHIVOLCS Data and Services Request

Access Path 1: PHIVOLCS Website - GISWeb

URL: <https://gisweb.phivolcs.dost.gov.ph/gisweb/earthquake-volcano-related-hazard-gis-information>

Available formats:

- **KMZ** (Google Earth overlay)
- **PNG** (province-wide ready-to-print layout)



PHIVOLCS

Download Hazard Maps Online Hazard Assessment Service GeoRiskPH Apps Login

Earthquake- & Volcano-Related Maps

Home / Earthquake- & Volcano-Related Maps

Search

NATIONAL

- Select Province -

- Select City/Municipality -

Hazard Maps:

Earthquake

☐ Select All

☐ Earthquake-induced Landslide

☐ Ground Rupture (Active Fault)

☐ Ground Shaking

☐ Liquefaction

☐ Others

☒ Tsunami

Volcano

☐ Select All

☐ Ash fall

☐ Ballistic projectile

☐ Fissure

☐ Lahar

☐ Lava flow

☐ Others

☐ Permanent Danger Zone

☐ Pyroclastic Flow

☐ Volcanic Tsunami

☐ Volcano Location

Other Maps:

☐ Select All

☐ Peak Ground Acceleration

☐ Risk Maps

☐ Spectral Acceleration

Submit

DOST - PHIVOLCS

Geology and Geophysics Research and Development Division (GGRDD)

PHIVOLCS Building, C.P. Garcia Ave., U.P. Diliman, Quezon City Philippines 1101

Useful Links

> DOST Website

> PHIVOLCS Website

> GeoRiskPH Website

> Earthquake Information

Services

> Online Hazard Assessment Service (OHAS)

> Earthquake- & Volcano-Related Maps

> Hazard Under PH

> GeoAnalyticsPH



Access Path 1: PHIVOLCS Website - GISWeb

1. Use Google Earth Pro

Download at: <https://www.google.com/earth/download/gep/agree.html>

2. Open the KMZ

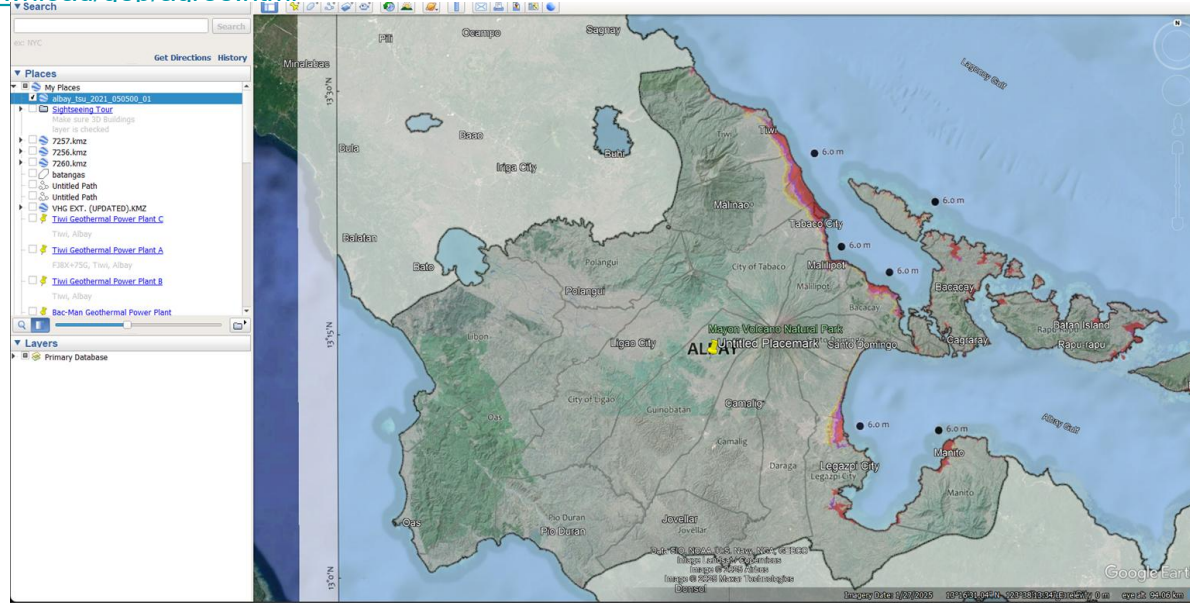
Double-click the file — it loads automatically

3. Use the legend

The hazard legend appears in Google Earth.

4. Adjust transparency

- Click the **square icon** beside the layer
- Move the **slider bar**



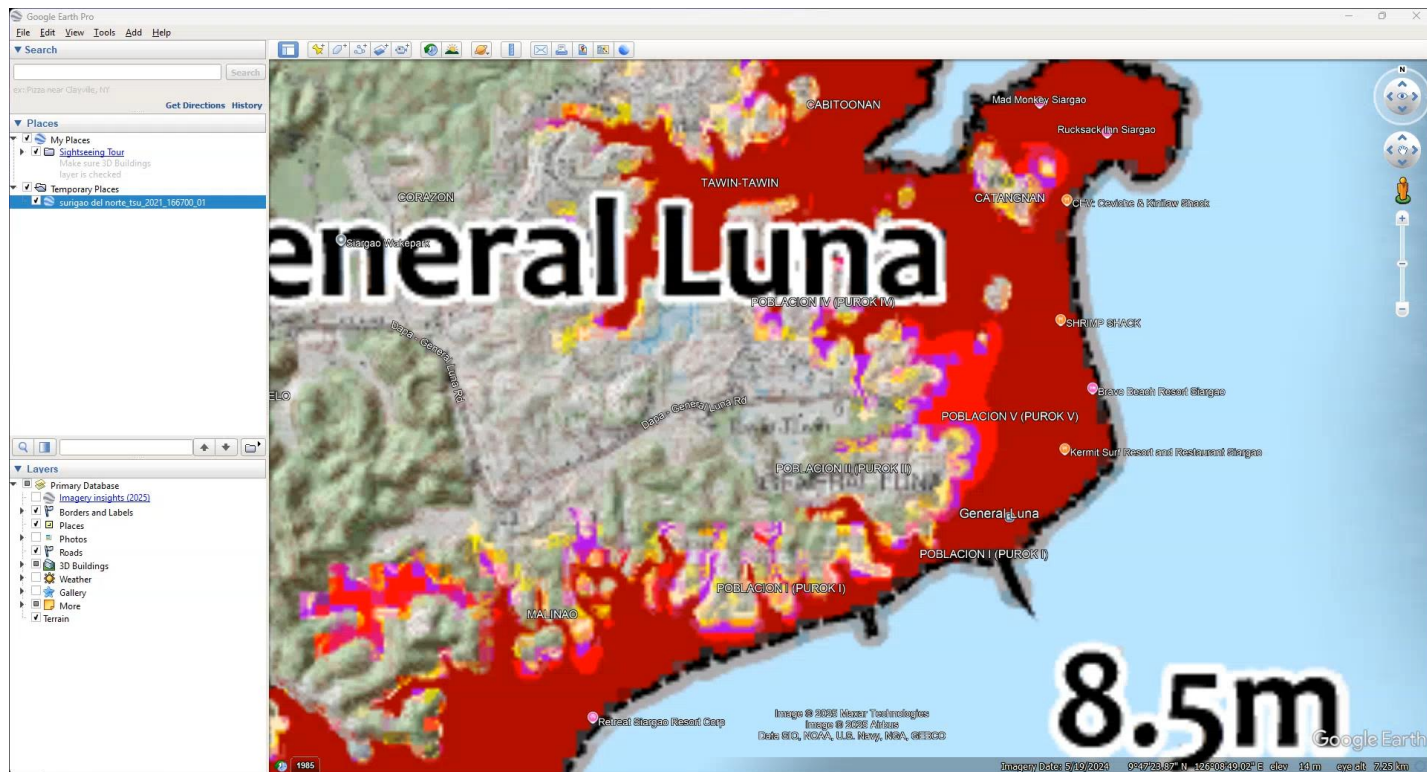
Access Path 1: PHIVOLCS Website - GISWeb

URL: <https://www.phivolcs.dost.gov.ph/tsunami-hazard-maps/>

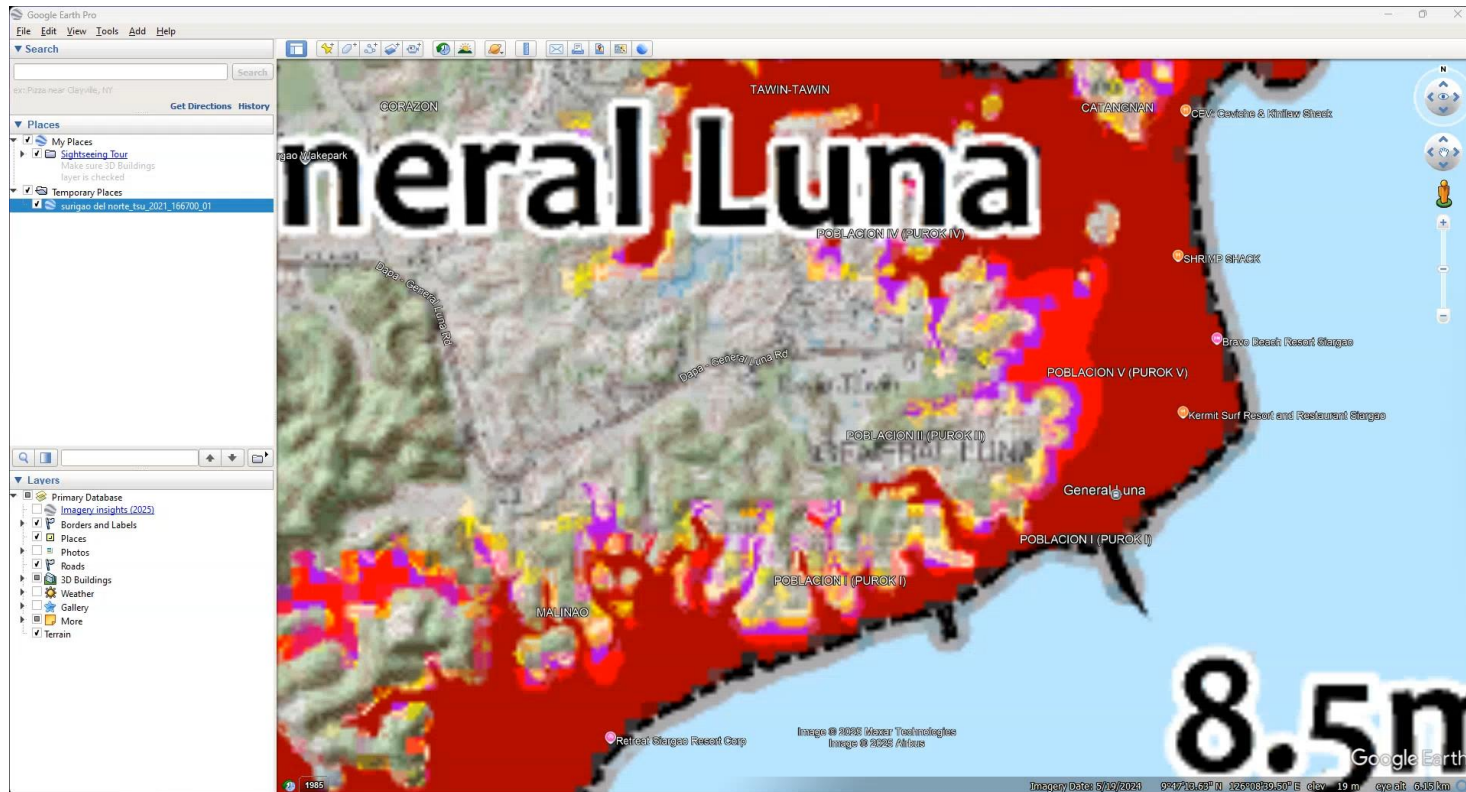
- Availability varies by geographic level (provincial, regional)
- Some areas may not have maps (mapping ongoing or no hazard)
- Maps are updated as new data becomes available



- Easily overlay KMZ maps on Google Earth
- Create 3D version of the map for easier visualization during tsunami evacuation planning



- Create elevation profiles on Google Earth
- Can be used to visualize evacuation route easily on 3D



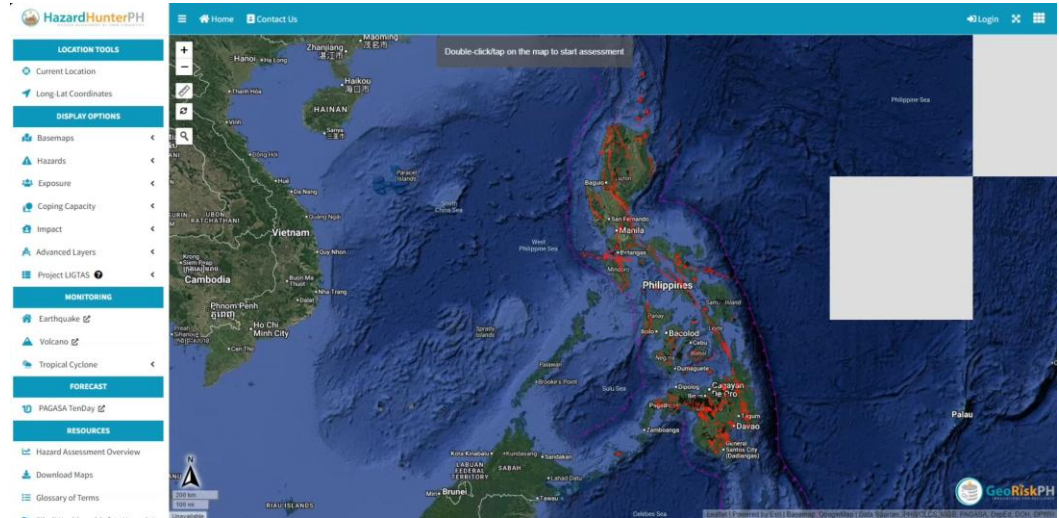
Access Path 2: HazardHunterPH

URL: <https://hazardhunter.georisk.gov.ph>

Interactive online platform

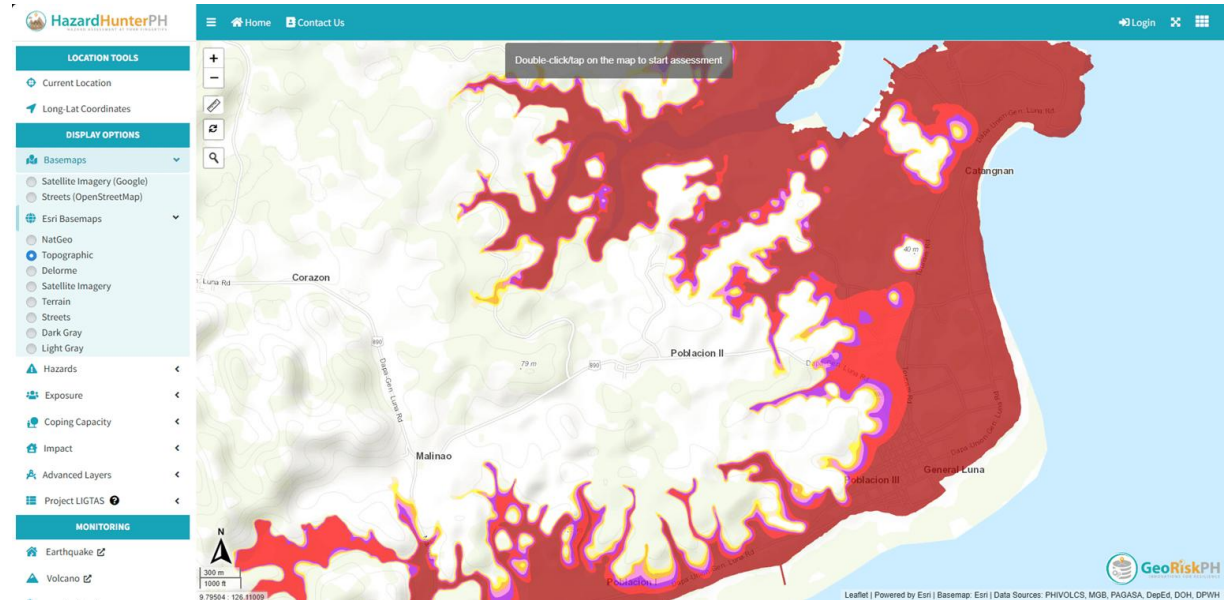
Available formats:

- Hazard Maps
(* .png/ * .pdf / * .kmz)



Access Path 2: HazardHunterPH

- **Tsunami Hazard** are overlain over different satellite imageries
- See which critical facilities and areas in the Philippines are prone to different hazards



Access Path 3: PHIVOLCS Data and Services Request

URL:

<https://gisweb.phivolcs.dost.gov.ph/gisweb/geomatics-services-request>

Available formats:

- **Vector**
 - a. **WMS (Web Map Service)**
 - b. **Shapefiles (vector data)** and other geospatial layers
- **Hazard Map (*.png/ *.pdf / *.kmz)**



Department of Science and Technology
Philippine Institute of Volcanology and Seismology

PHIVOLCS

Download Hazard Maps Geomatics Service F

Pursuant to: (a) Indigenous People's Act (RA 8371); (b) Magna Carta for Disabled Persons (RA 7277) and (c) Solo Parents Welfare Act of 2000 (RA 8972), may we request you to please answer the following items:

1. Are you a member of any indigenous group? ☐ Yes ☐ No ☐ Prefer not to say
2. Are you a person with disability? ☐ Yes ☐ No ☐ Prefer not to say
3. Are you a senior citizen? ☐ Yes ☐ No ☐ Prefer not to say
4. Are you a solo parent? ☐ Yes ☐ No ☐ Prefer not to say

Affiliation of Requestee *

NGO, Private Company/Personal

Data/Service Format *

✓ Select
Vector (WMS)
Hazard Map (*.png/ *.pdf/ *.kmz)

Request made on behalf of (Company) *

test

test

Purpose of Request *

test

Important Requirement: Requests will be processed once we receive the signed request form.

*DOST-PHIVOLCS collects personal data through this form for purposes including service delivery, stakeholder engagement, policy formulation, program implementation and other processes as required by law including auditing. By filling out this form, you agree to the stated uses of your data. Rest assured that DOST-PHIVOLCS is protecting your personal data in adherence to the Data Privacy Act of 2012.

☐ I'm not a robot



Submit



Access Path 3: PHIVOLCS Data and Services Request

Requirements:

- Submit request form
- Sign **DUA/MOU**
- PHIVOLCS approval and release

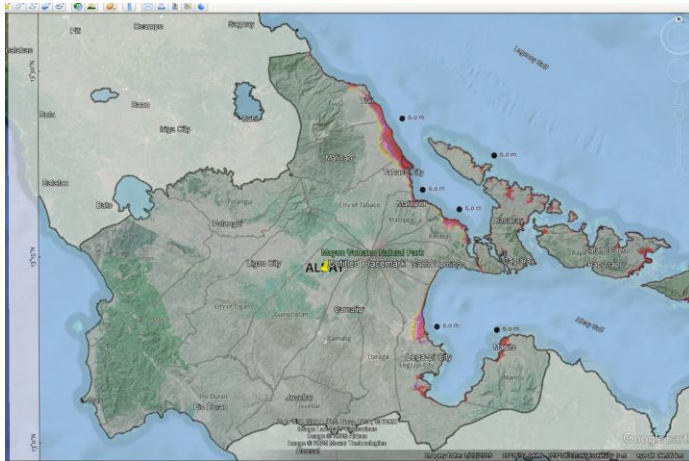
Notes:

- Data must not be modified
- WGS 84 Projection

Overlaying LGU Boundaries

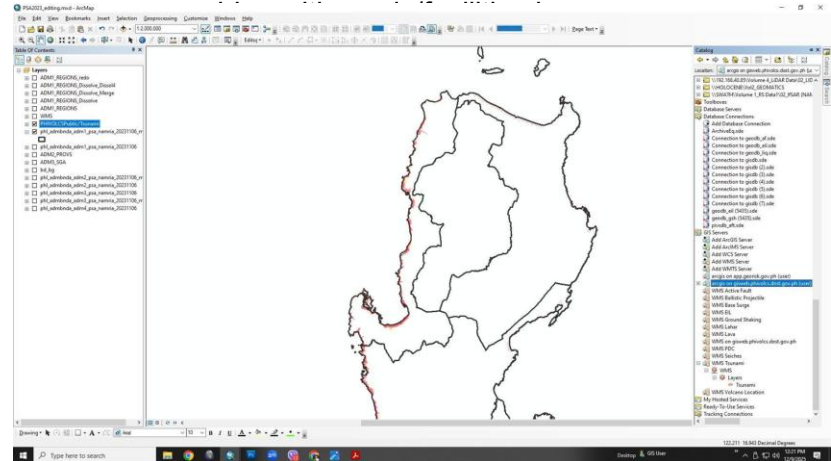
In Google Earth:

- Convert LGU boundary to KMZ
- Load boundary + PHIVOLCS KMZ
- Adjust transparency for clarity



In GIS:

- Load shapefile/WMS
- Reproject if needed
- Load local administrative boundaries,



Important Notes on PHIVOLCS Tsunami Hazard Maps

1. Availability varies by location (scale and quality)

- City/Municipal, Provincial coverage
- Some areas may have no hazard or mapping is ongoing
- Some maps are detailed; make sure to read the explanatory notes of the map

2. Maps may be updated

- New models and new data may change hazard extents
- Update platforms and inform LGUs of the latest available map

3. Use official KMZ/PDF/PNG/WMS/SHP formats only

- Do not alter map geometry or colors

4. For comments and/or feedback on PHIVOLCS Tsunami Hazard Maps please contact

DOST-PHIVOLCS – Geology and Geophysics Research and Development Division (PHIVOLCS-GGRDD)

(02) 8426-1468 to 79, local 207 or 208

ggrdd.mail@phivolcs.dost.gov.ph



Maraming salamat po!
Thank you very much!