

RAIN-INDUCED LANDSLIDE AND FLOOD HAZARDS DUE TO TD PAENG

October 26, 2022

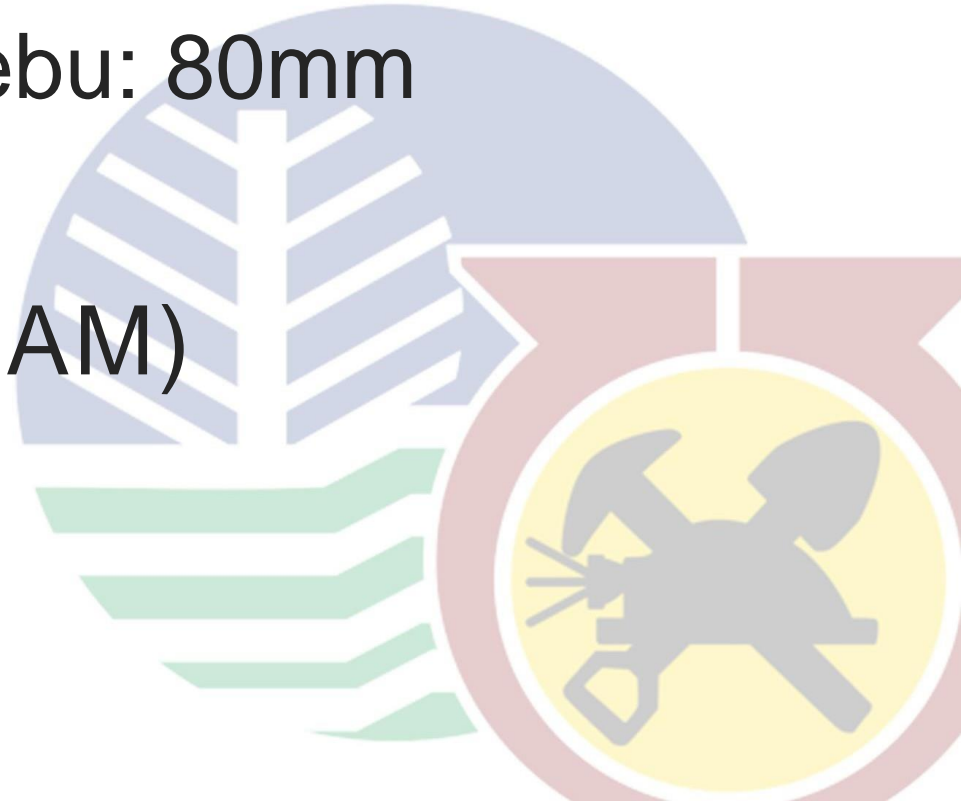


MINES AND GEOSCIENCES BUREAU

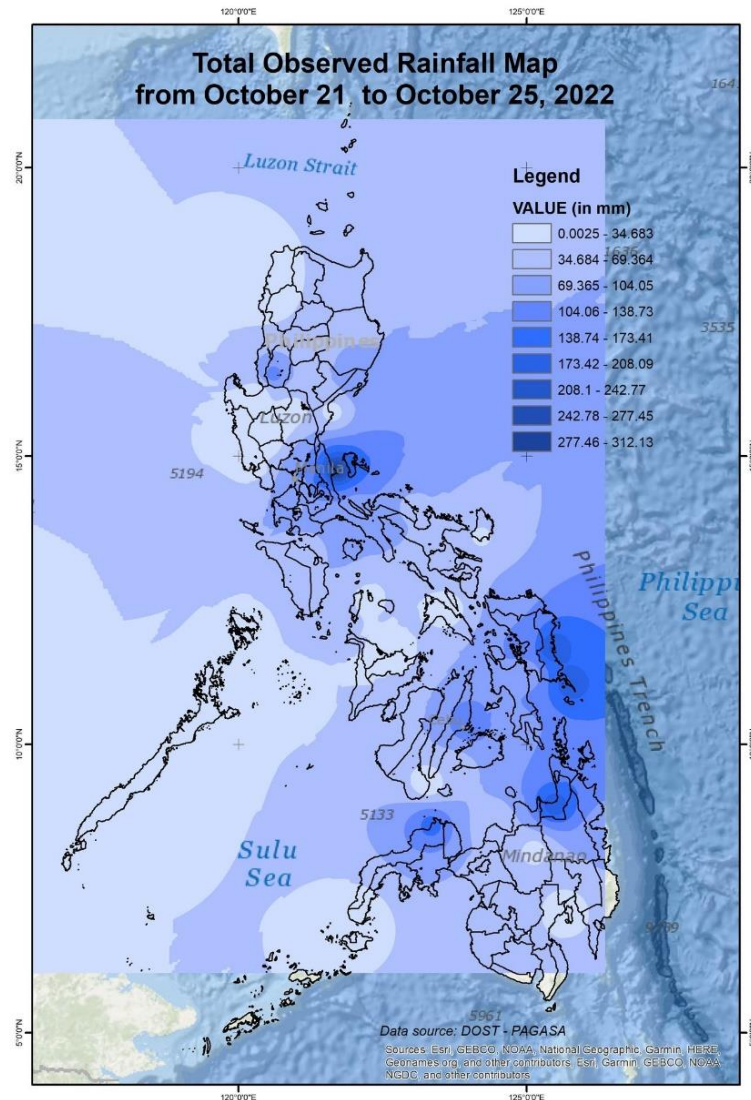


DATA FROM PAGASA-DOST

- **WRF and GSM 72-hr Forecast Rainfall data:**
 - WRF – 120mm; GSM – 80mm
 - Metro Manila: 50mm, Metro Cebu: 80mm
 - Debris Flow: 250mm
- Valid October 26-29, 2022 (8AM)



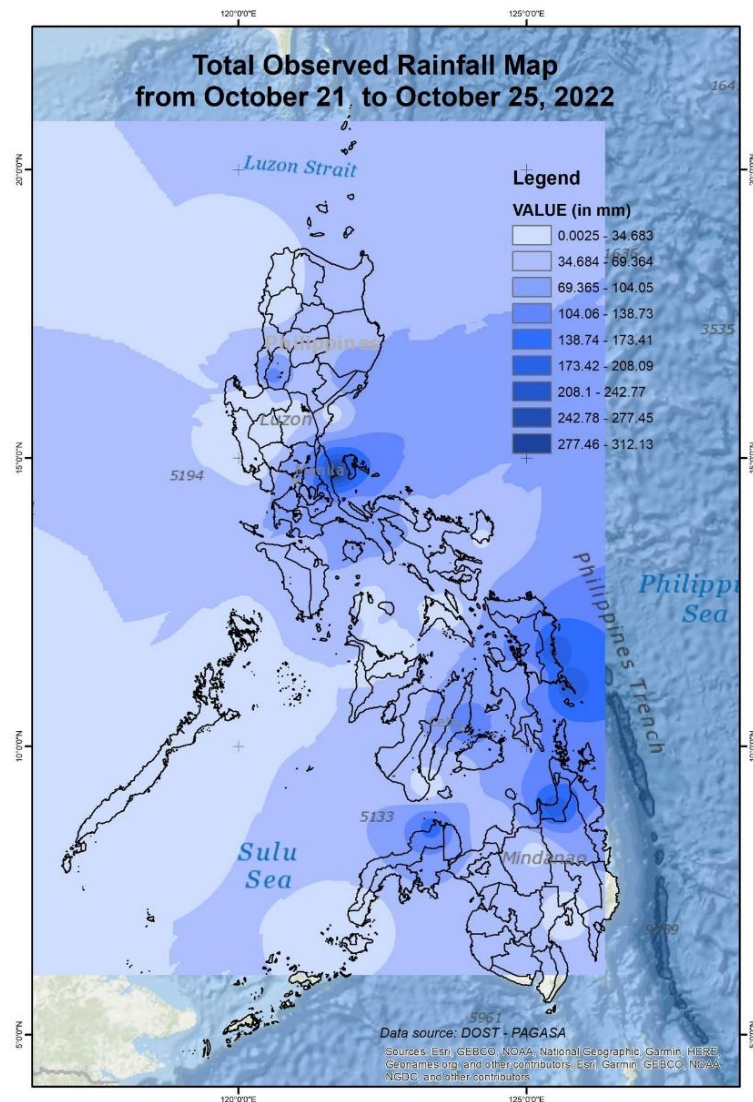
RECORDED RAINFALL FROM OCTOBER 21 TO 25, 2022



	Name	Total
1	Infanta, Quezon	314.2
2	Borongan City, Samar	211.7
3	Butuan City, Agusan del Norte	198
4	Guiuan, Eastern Samar	195.6
5	Dipolog City, Zamboanga del Norte	153.9
6	Tanay, Rizal	149.8
7	Surigao City, Surigao del Norte	128.7
8	Mactan City, Cebu	127.8
9	Baguio City, Benguet	120.1
10	Science Garden, Marikina	109.4
11	Catbalogan City, Samar	108.8
12	Sangley Pt, Cavite	100.4
13	Port Area, Manila	95.5
14	Casiguran, Aurora	95.1
15	Catarman, North Cotabato	91.2
16	Tayabas, Quezon	85.6
17	Alabat, Quezon	78.5
18	Tacloban City, Leyte	74.6
19	Hinatuan, Surigao del Sur	71.4
20	Maasin City, South Cotabato	69.2

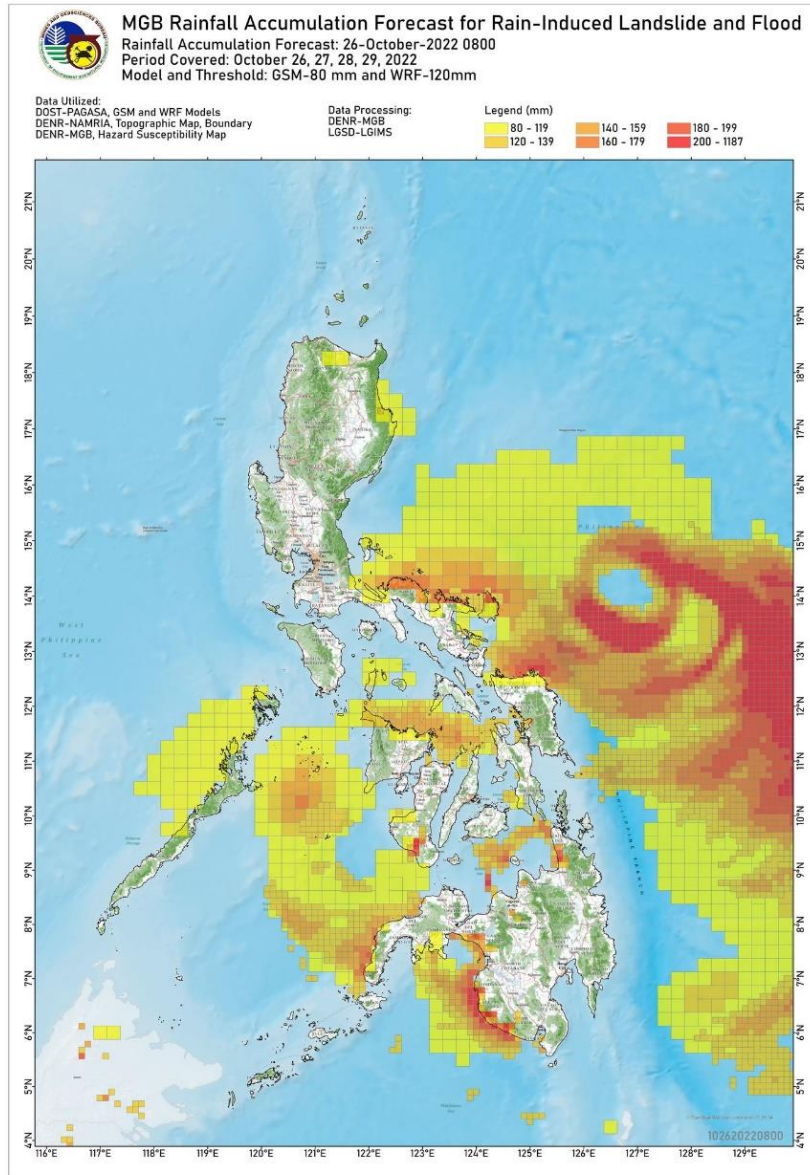


RECORDED RAINFALL FROM OCTOBER 21 TO 25, 2022

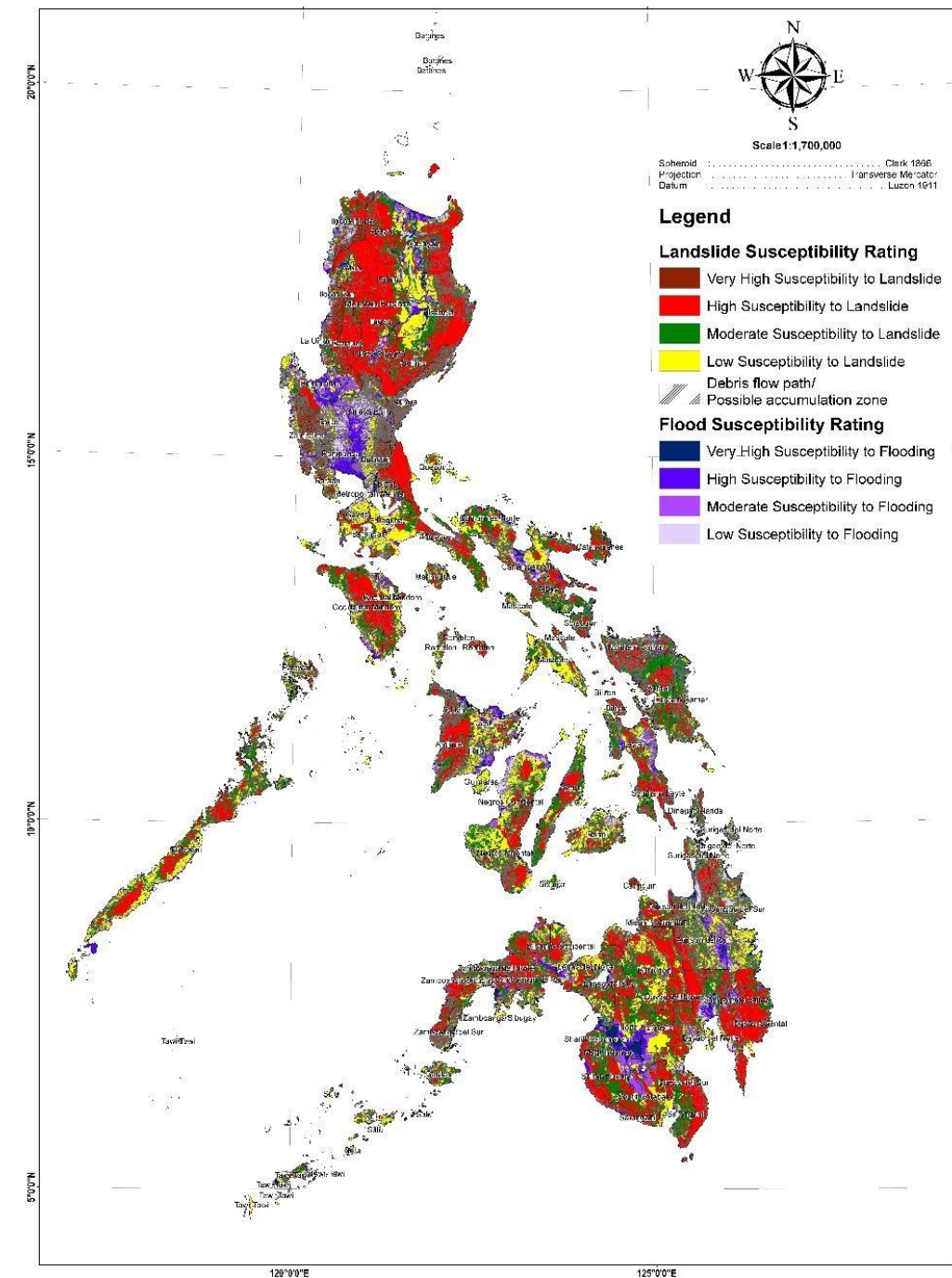


#	Name	October 25, 2022	OCTOBER 21-25, 2022
98434	Infanta, Quezon	251.8	314.2
98553	Borongan City, Eastern Samar	139.5	211.7
98433	Tanay, Rizal	138.8	149.8
98558	Guiuan, Eastern Samar	111.2	195.6
98428	Sangley Pt, Cavite	95.2	100.4
98430	Science Garden, Quezon City	90.2	109.4
98425	Port Area, Manila	69	95.5
98429	NAIA, Pasay City	65	66
98546	Catarman, Northern Samar	54.6	91.2

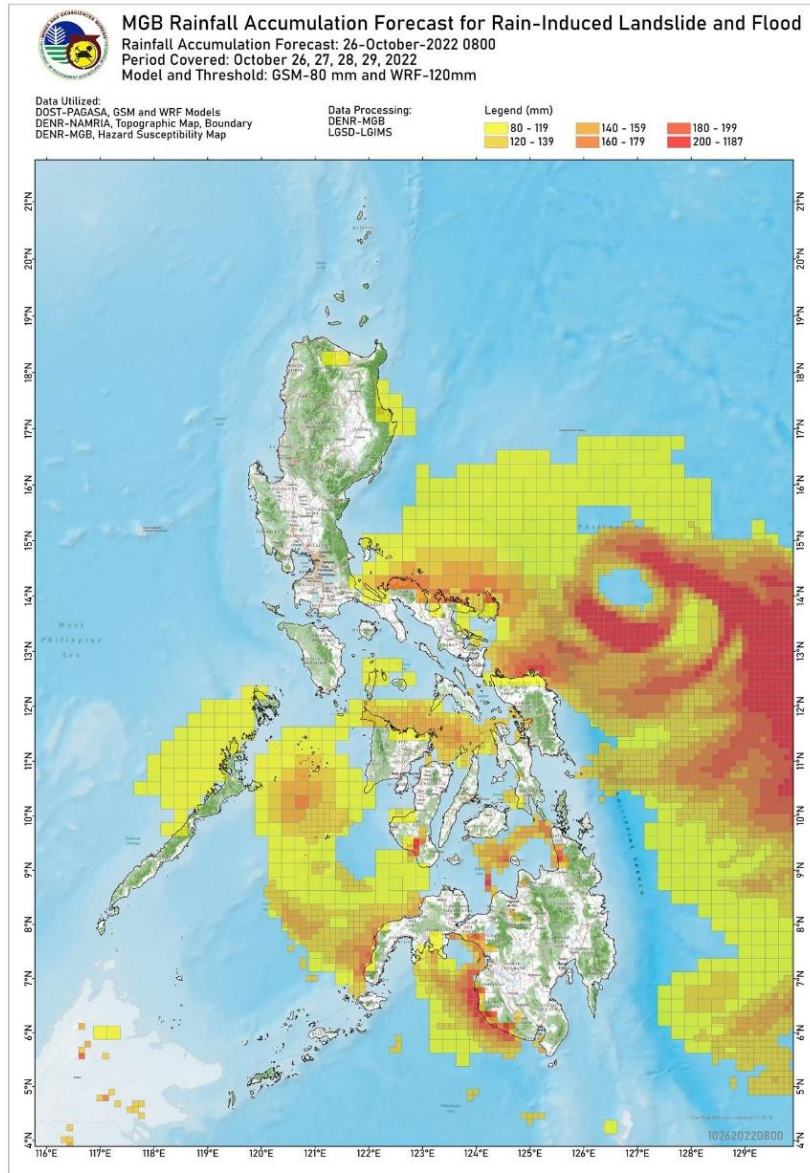
GSM 72-HR AND WRF 72-HR RAINFALL DATA OCTOBER 26–29, 2022



Overlay with MGB
Geohazard Map



LIST OF BARANGAYS SUSCEPTIBLE TO LANDSLIDE AND FLOOD



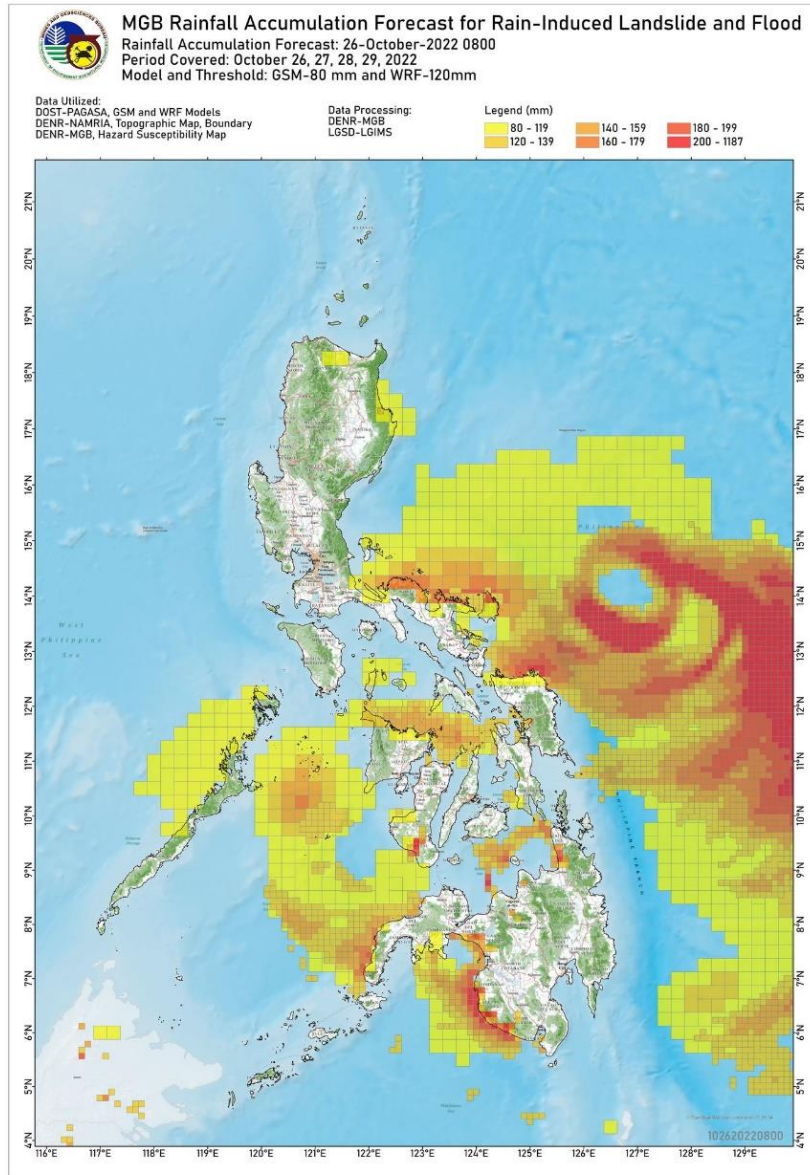
OCTOBER 26-29, 2022, 8AM

October 26 8am, 2022

GSM 80mm WRF 120mm

Row Labels	Count of BARANGAY
Autonomous Region of Muslim Mindanao (ARMM)	303
Lanao Del Sur	252
Maguindanao	44
Basilan	7
Northern Mindanao (Region X)	126
Bukidnon	23
Lanao Del Norte	56
Misamis Oriental	47
SOCCSKSARGEN (Region XII)	178
Sultan Kudarat	84
Sarangani	47
South Cotabato	46
Cotabato City (Not A Province)	1
Cotabato City	1
Cordillera Administrative Region (CAR)	70
Apayao	70
Cagayan Valley (Region II)	120
Cagayan	75
Isabela	45
MIMAROPA (Region IV-B)	261
Palawan	134
Romblon	127
CALABARZON (Region IV-A)	372
Laguna	2
Quezon	370
Bicol Region (Region V)	1023
Albay	144
Camarines Sur	322
Masbate	45
Catanduanes	226
Sorsogon	19
Camarines Norte	267

LIST OF BARANGAYS SUSCEPTIBLE TO LANDSLIDE AND FLOOD



OCTOBER 26-29, 2022, 8AM

Caraga (Region XIII)	103
+ Agusan Del Norte	92
+ Surigao Del Norte	11
Central Visayas (Region VII)	164
+ Negros Oriental	116
+ Bohol	2
+ Cebu	46
Western Visayas (Region VI)	983
+ Aklan	254
+ Capiz	311
+ Negros Occidental	103
+ Antique	143
+ Iloilo	172
Zamboanga Peninsula (Region IX)	467
+ Zamboanga Del Norte	139
+ Zamboanga Del Sur	251
+ Zamboanga Sibugay	76
+ City Of Isabela (Not A Province)	1
City Of Isabela	1
Eastern Visayas (Region VIII)	903
+ Northern Samar	442
+ Samar	172
+ Southern Leyte	66
+ Leyte	180
+ Biliran	43
Grand Total	5073

RECOMMENDATIONS



1. Vigilant monitoring of areas showing **signs of landslides**: tension cracks, seepages, terracettes, tilting of trees, etc.



Tilting of fence/walls



Tension Cracks



Seepage



Terracettes

2. Monitor moderate slopes with **thick soil overburden** and areas underlain by **old landslide deposits**.



Thick Soil Overburden



Old Landslide Deposit



3. Avoid areas affected by repeated flooding, meandering with riverbank erosion, floodplain with shifting and braiding streams, coastal areas, affected by storm surge, flashflood areas, river deltas with many distributary channels, etc.



Riverbank Erosion



Entrenched River



RECOMMENDATIONS

4. Areas with **high antecedent rainfall** must remain vigilant, despite not being included in the list of barangays.
5. **Be aware of the geohazard in your area.** MGB Geohazard maps are available in the barangay, municipal, and provincial LGUs nationwide as well as your respective MGB Regional Offices. Visit MGB Web portal and other platforms like Hazard Hunter (GeoRiskPH).
6. Please take note of the barangay listings (in excel format) provided to our Regional Offices and other partner agencies (OCD, DILG, DSWD, etc.). **Those areas in the previous listings should still remain vigilant.**

MGB GEOHAZARD WEB PORTAL

www.mgb.gov.ph

GOVPH

Home

About Us

Transparency

Services

Laws and Regulations

Regions

Contact Us

FAQ

by the survey are the municipalities of Mercedes, Guay, Bulaya, Milagro, Maricao, San Francisco, and Espinosa. The report contains the most up-to-date information for the province about the threats posed by coastal hazards and the recommendations to mitigate or to minimize their effects on the populace.

Read more: [MGSD Conducts Coastal Hazards Vulnerability Assessment of Camarines Norte Province](#)

[More MGB News...](#)

Newspaper Articles

[Revenues from the mining sector will help government](#)

Monday, 13 September 2021

[3.3 milyong forest seedlings naitanim sa Nuela Vizcaya](#)

Tuesday, 07 September 2021

[Strong metal prices fuel mining growth](#)

Friday, 03 September 2021

[Local communities want South Cotabato mining ban lifted](#)

Monday, 23 August 2021

[Small-scale miners urged to apply for 'Minahang Bayan'](#)

Wednesday, 18 August 2021

Quick Links

MGB Online Process Flow

MGB Client Satisfaction Survey Form

Gender and Development Corner

Mineral Statistics Corner

MGB Central Database Portal

ASEAN Mineral Database

Geohazard Portal Map

Georisk PH

Available Geological Mineral Distribution Map

Philippine Geoportal

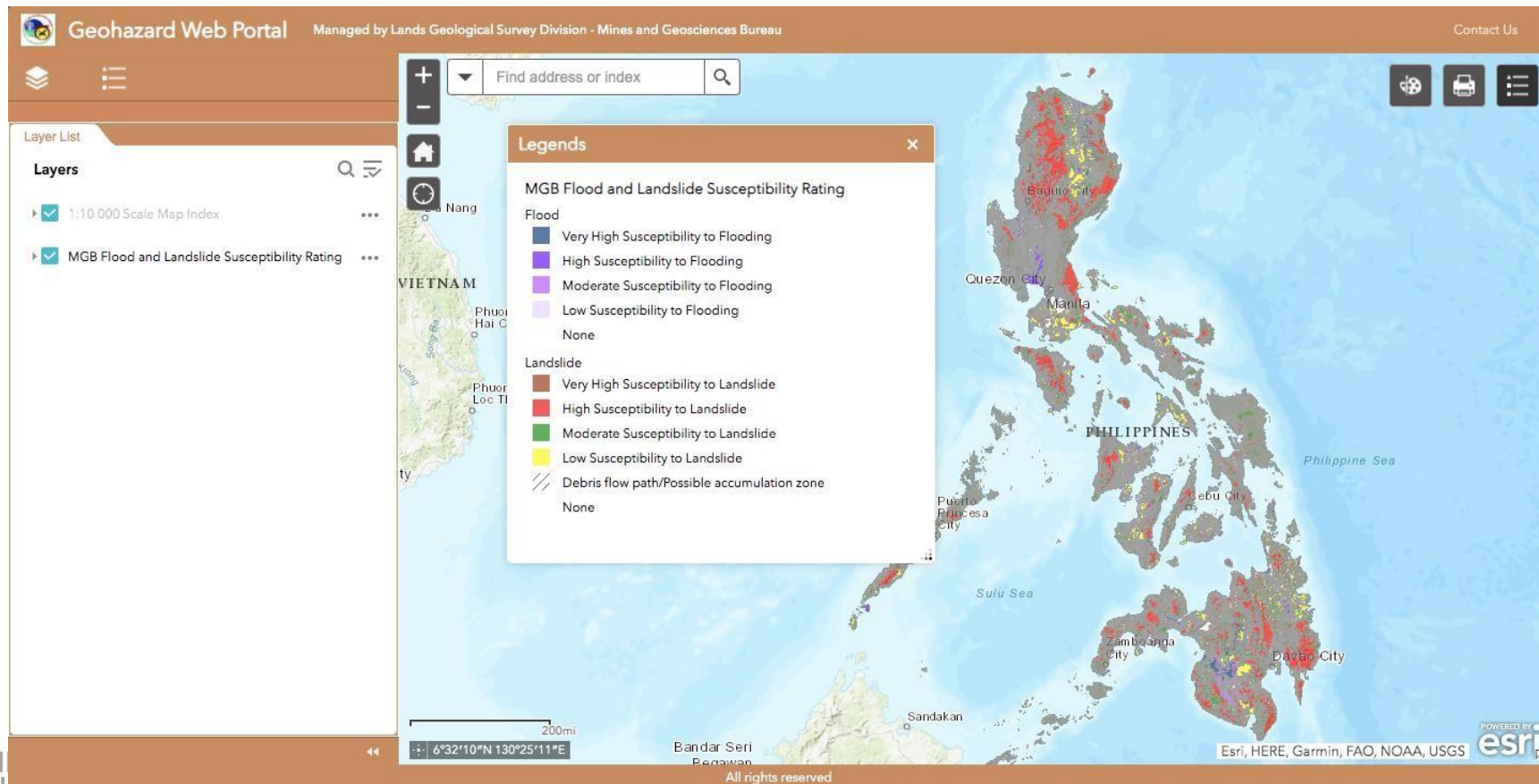
Job Opportunities

Laws and Regulations

Research and Development

MGB GEOHAZARD WEB PORTAL

www.tinyurl.com/MGB-Geohazard-Portal



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

[Search](#)

Advanced features of HazardHunterPH may now be accessed by partner organizations with GeoRiskPH accounts.

[Use Current Location](#)[Use Coordinates](#)[Go to Map View](#)

HazardHunterPH is the country's one-stop shop for hazard assessment.

Find out if a location is prone to seismic, volcanic, or hydrometeorologic hazards. Generate hazard assessment reports.

See which critical facilities and areas in the Philippines are prone to different hazards.

All hazard information used for assessment has been generated by government agencies.

Know more about HazardHunterPH [here](#).

Powered by:



HazardHunterPH is a product of GeoRisk Philippines, a multi-agency initiative led by the Philippine Institute of Volcanology and Seismology (PHIVOLCS), funded by the Department of Science and Technology (DOST), and monitored by the Philippine Council for Industry, Energy, and Emerging Technology Research and Development (PCIEERD).

THANK YOU



MINES AND GEOSCIENCES BUREAU