

EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF MALITBOG

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track/ Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

High Susceptibility

Moderate Susceptibility

Low Susceptibility

Not Susceptible

Possible landslide depositional/affected zone

EXPLANATION

Earthquake-induced landslide hazard map was produced by simulating the largest possible earthquake magnitude occurring in the area. Landslide potentials were calculated using a) the computed Factor of Safety (FoS), b) simulated ground shaking by Fukushima and Tanaka, and c) critical acceleration of slope by Newmark method. The result shows the possible landslide initiation zones at varying degrees, i.e., high, moderate and low. Hatched areas show the possible depositional extent of landslide materials and is considered part of the areas that may be affected by landslides.

LOCATION MAP

SOURCES OF DATA

Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF PADRE BURGOS
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
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LEGEND

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- Municipal boundary
- Hard Surface Road
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LOCATION MAP

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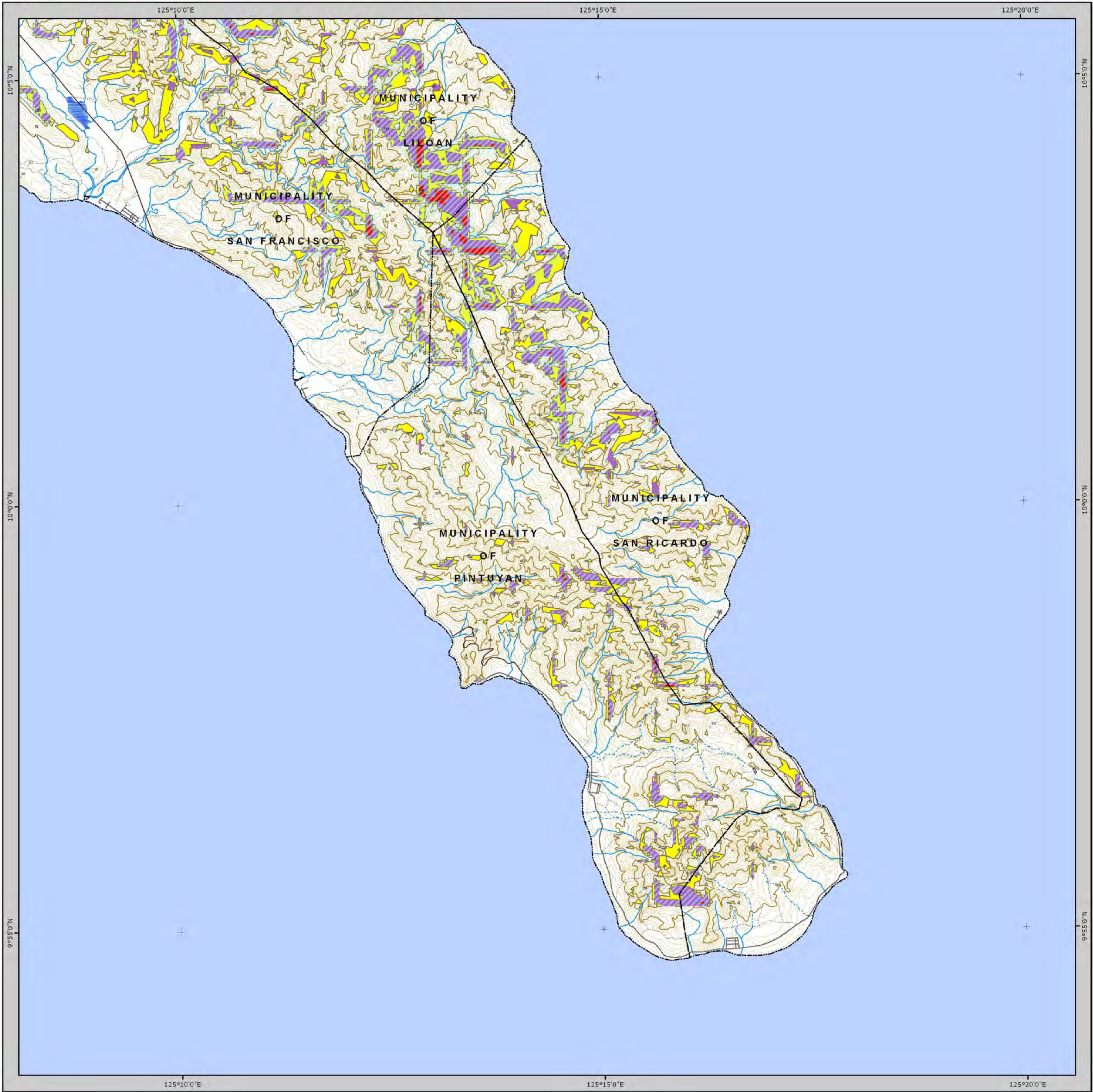
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Visayas, Philippines



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Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

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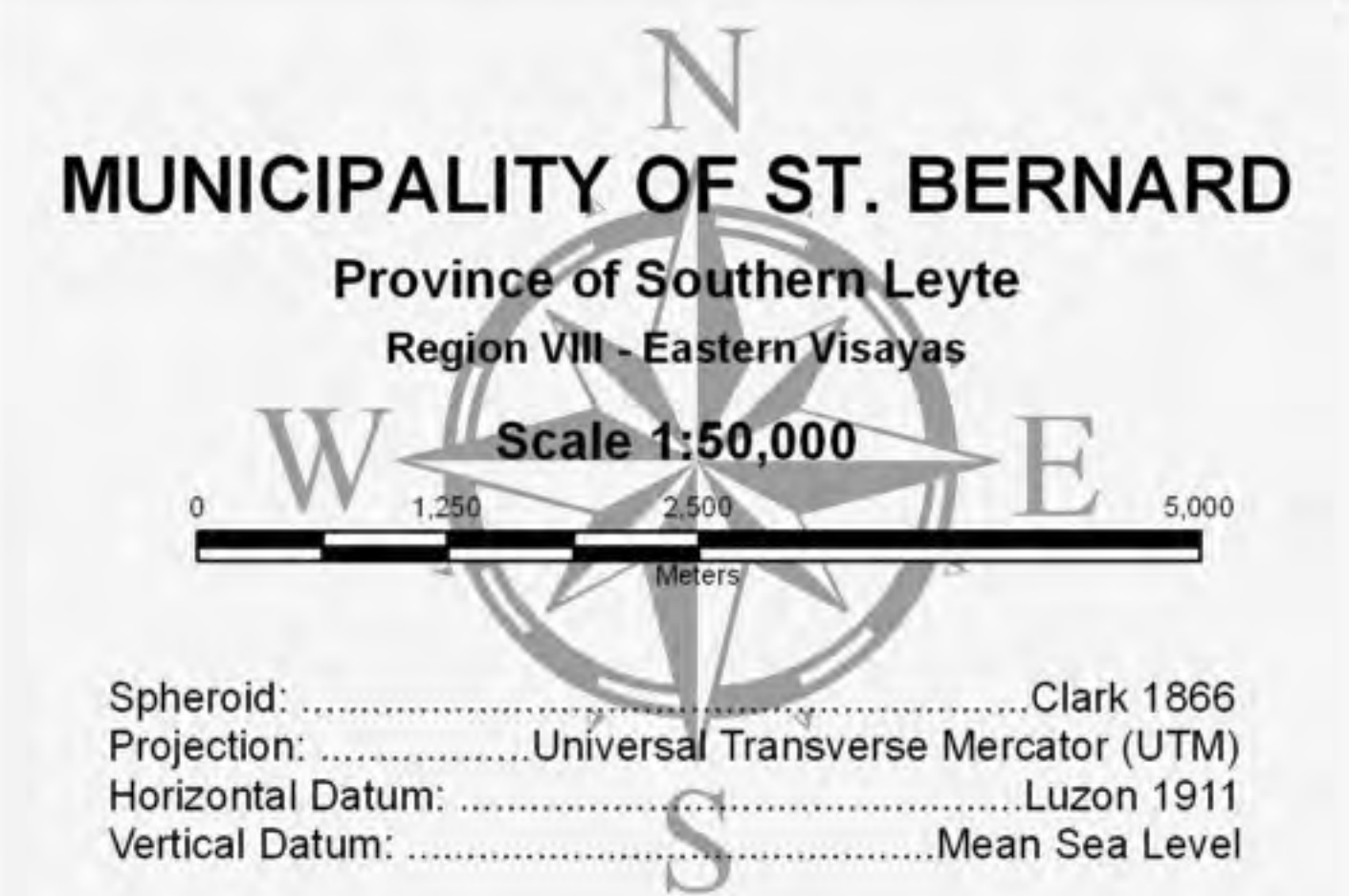
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Visayas, Philippines



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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SAN FRANCISCO
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
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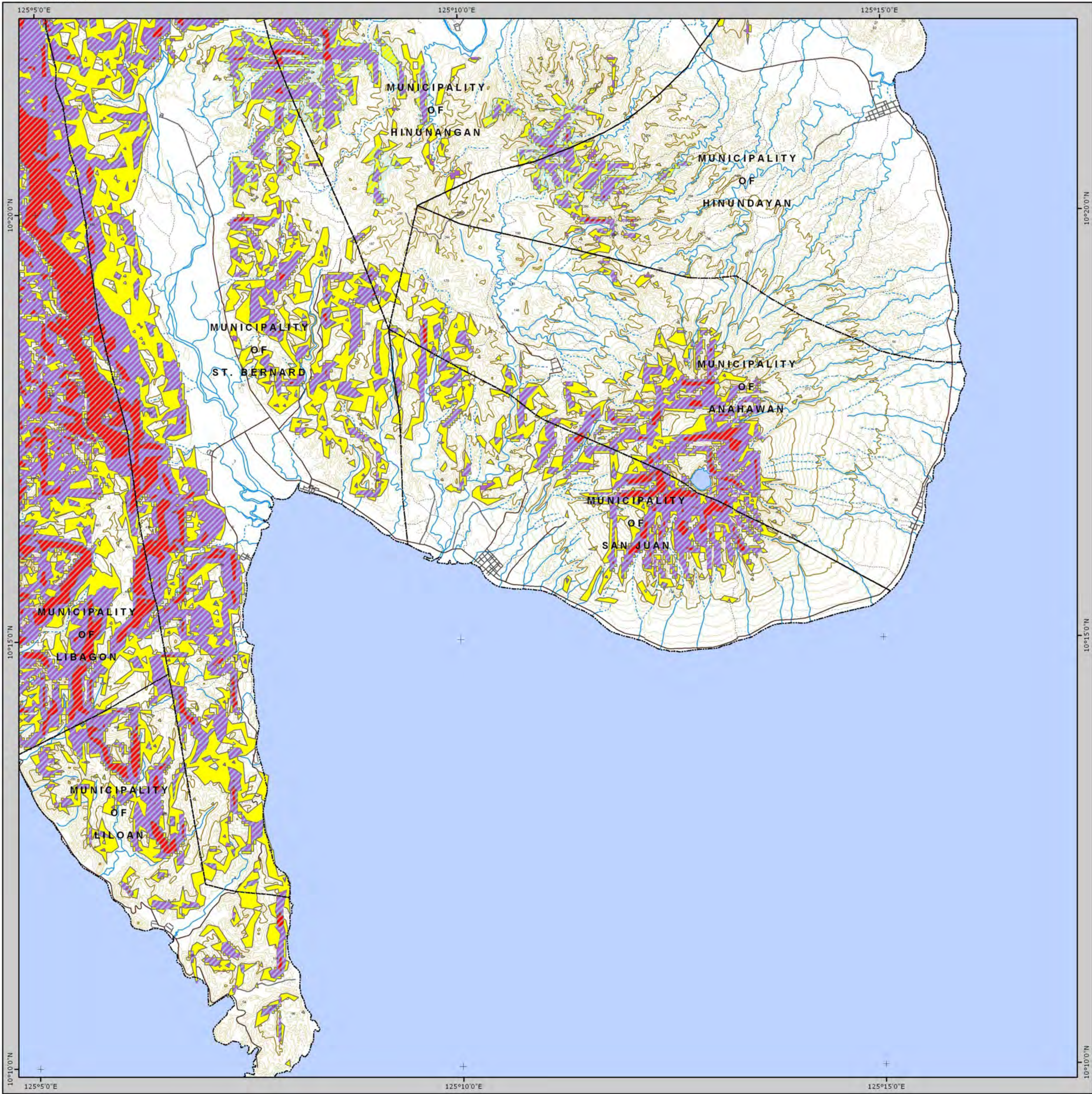
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SAN JUAN
Province of Southern Leyte
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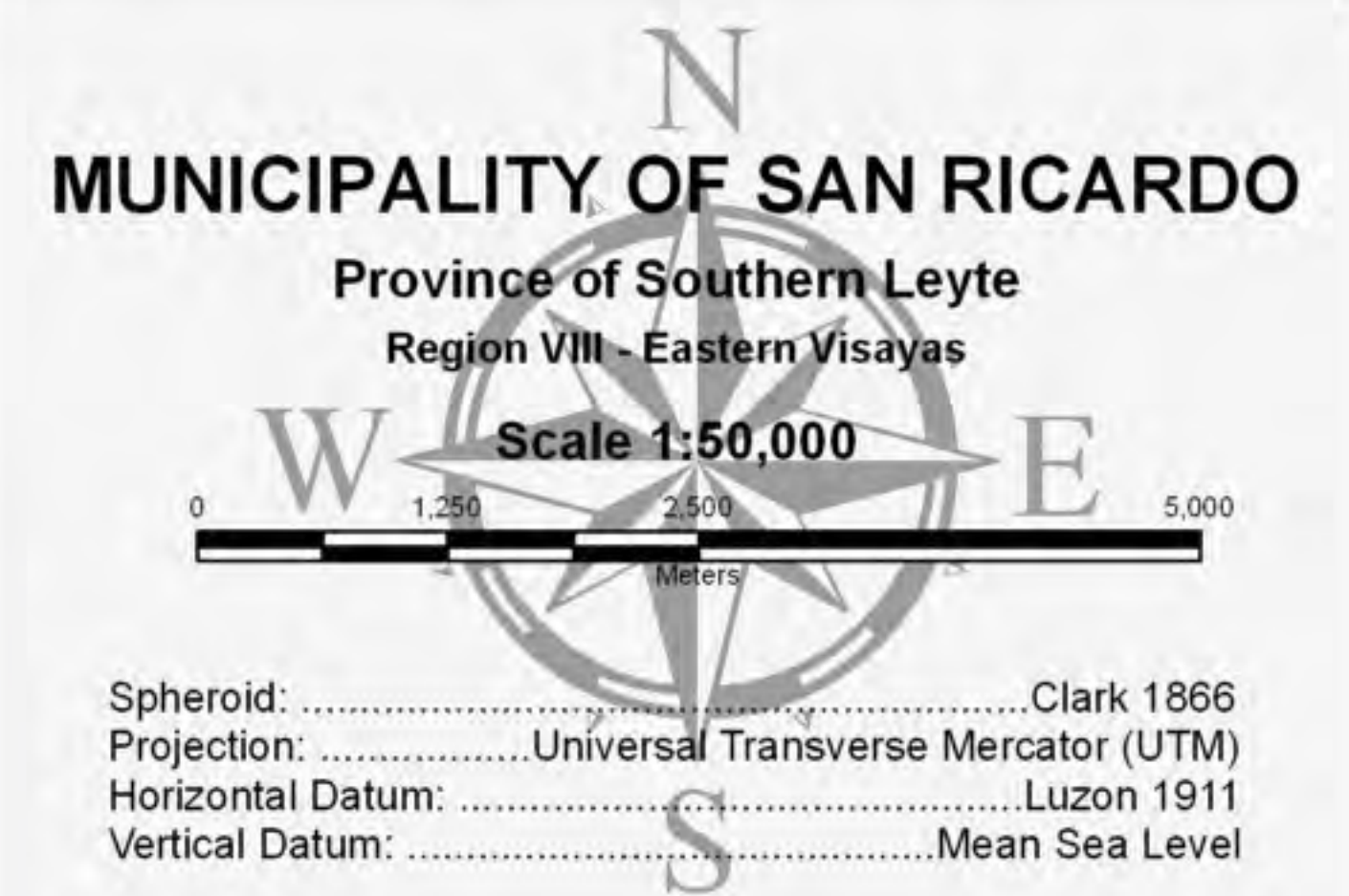
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LEGEND

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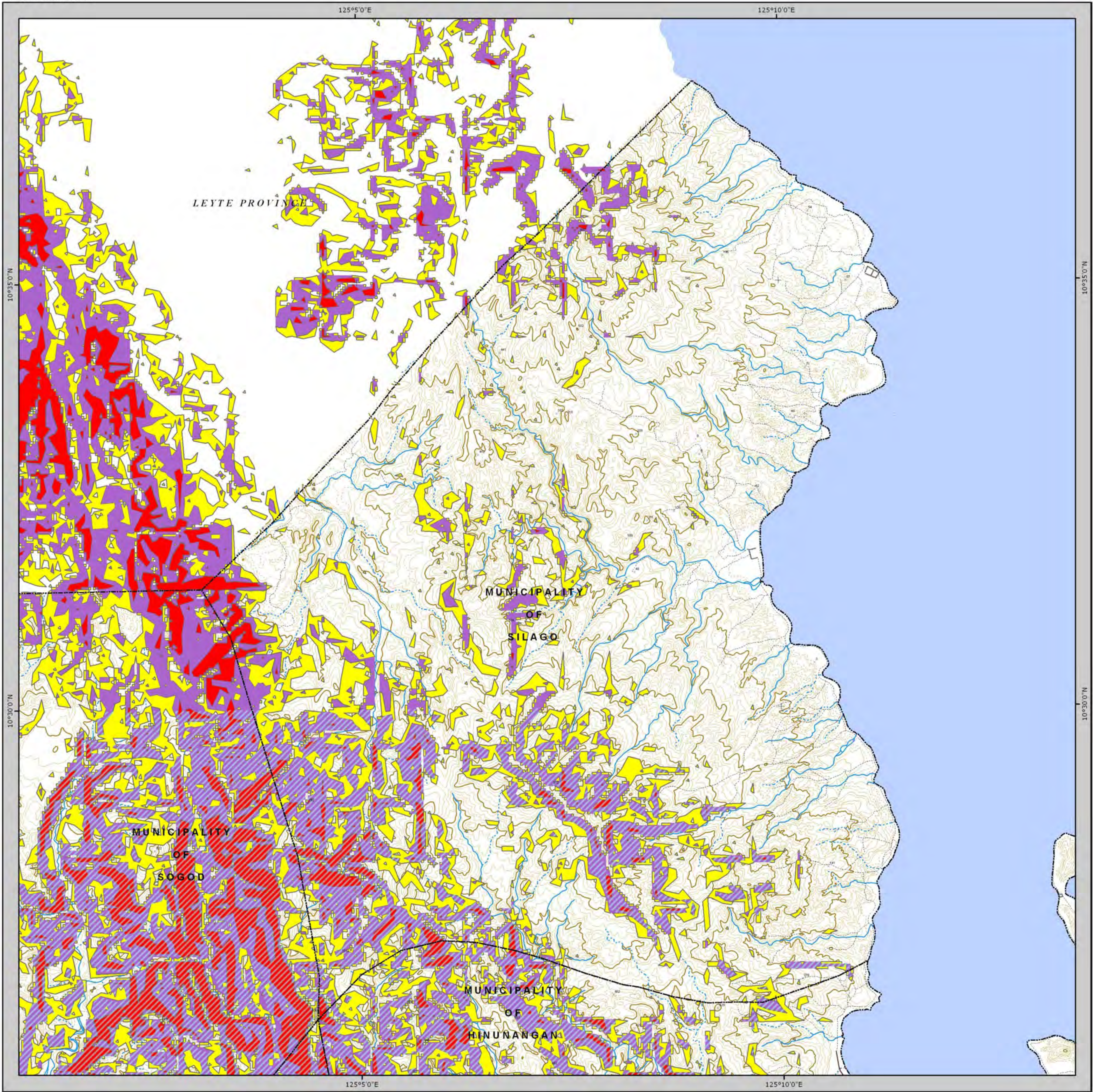
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF SILAGO

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

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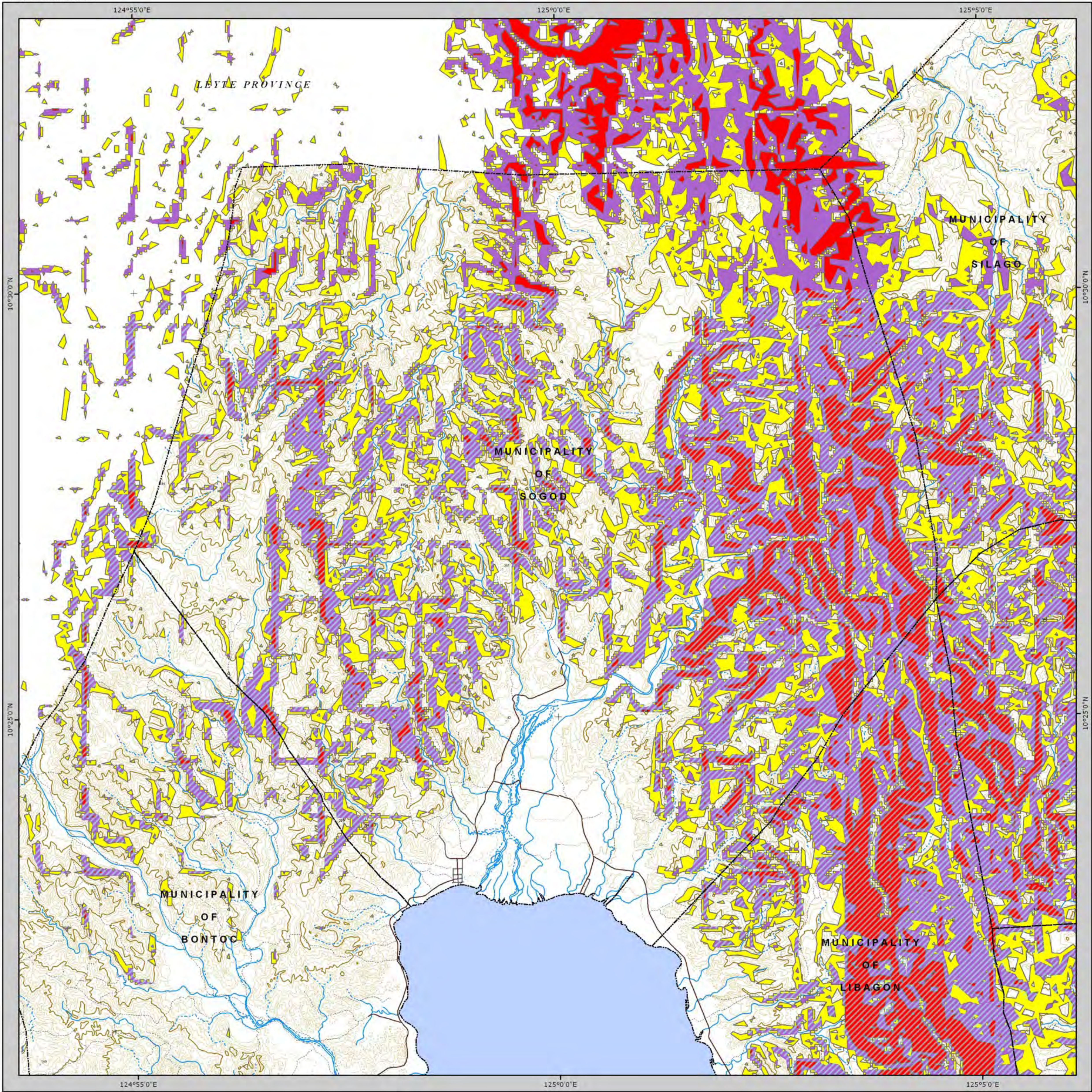
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SOGOD
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

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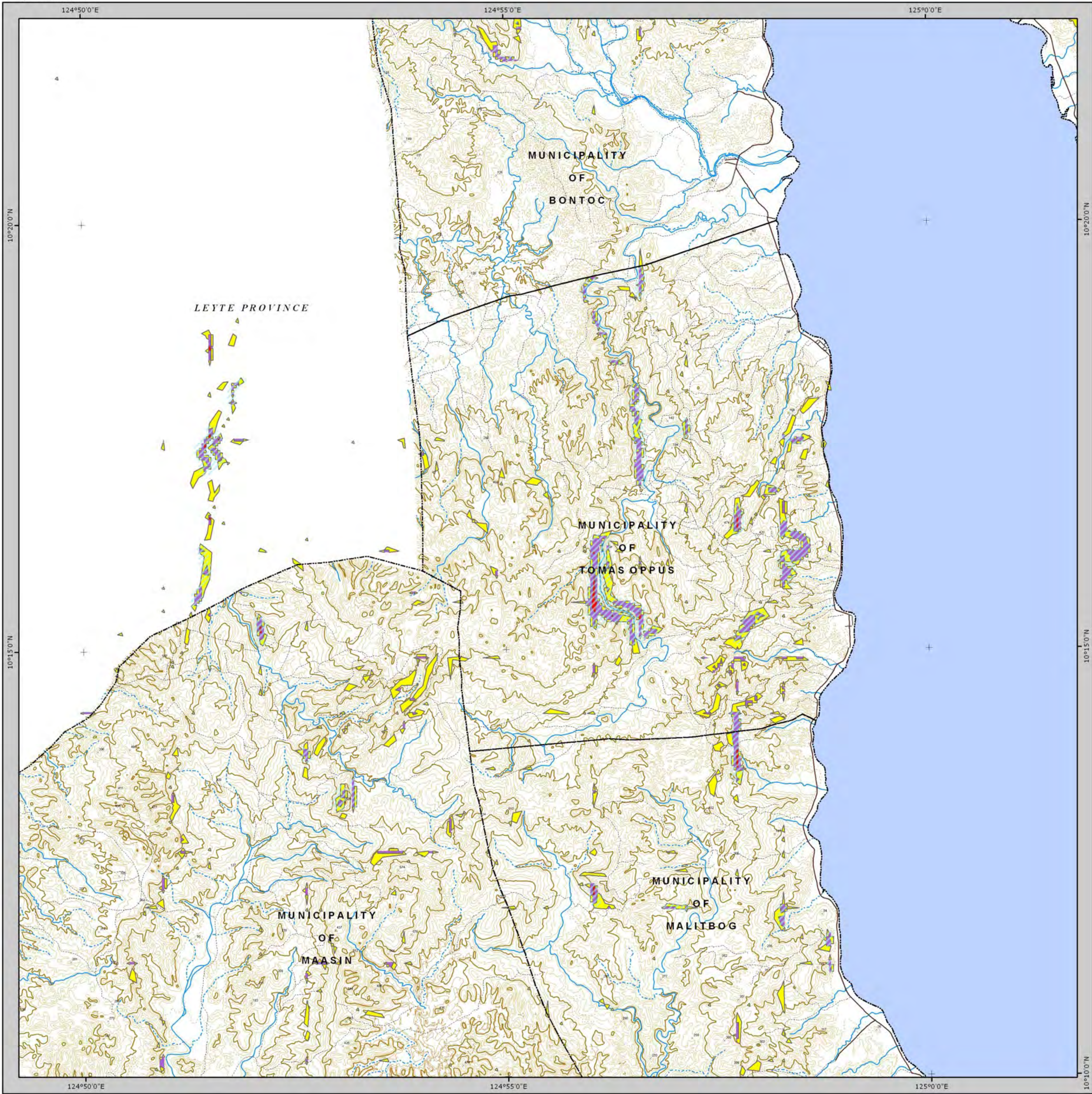
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF TOMAS OPPUS
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

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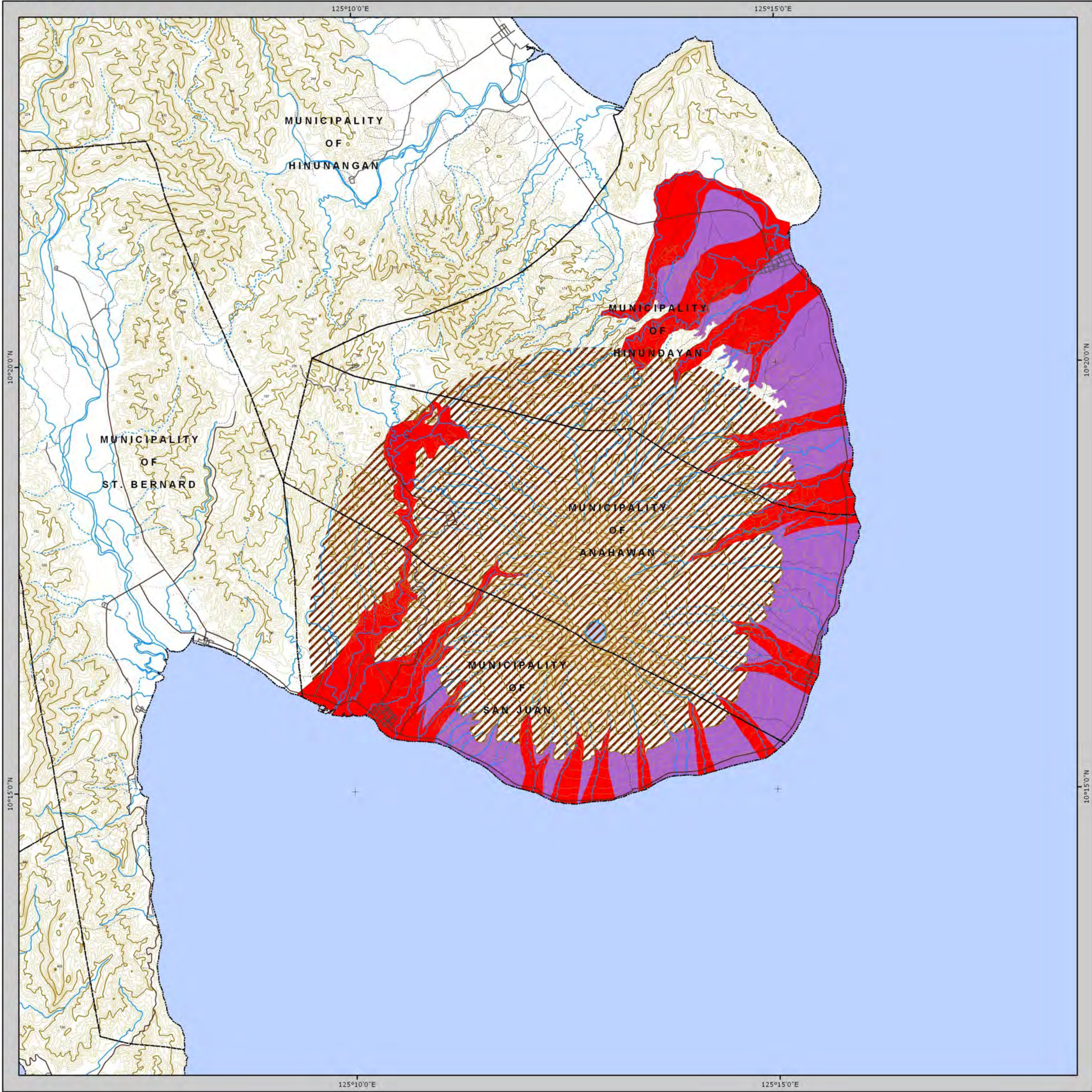
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VOLCANIC HAZARD MAP OF MT. CABALIAN

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF ANAHAWAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

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LEGEND

Provincial boundary

Municipal boundary

=====

Hard Surface Road

=====

Light Surface Road

=====

Fair Weather Road

=====

Loose Surface Road

Cart Track/ Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

X1176

Spot elevation

=====

Built-up Area

=====

Forested Area

=====

Water Body

SUSCEPTIBILITY

=====

Areas Highly Prone to Lahar Hazard

=====

Areas Moderately Prone to Lahar Hazard

=====

Danger Areas for Pyroclastic Flows and Surges

EXPLANATION

The danger area for pyroclastic flows and surges covers the farthest extent of mapped pyroclastic deposits from Cabalian Volcano.

LOCATION MAP

SOURCES OF DATA

Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007

Administrative boundary, National Statistics Office (NSO) 2000

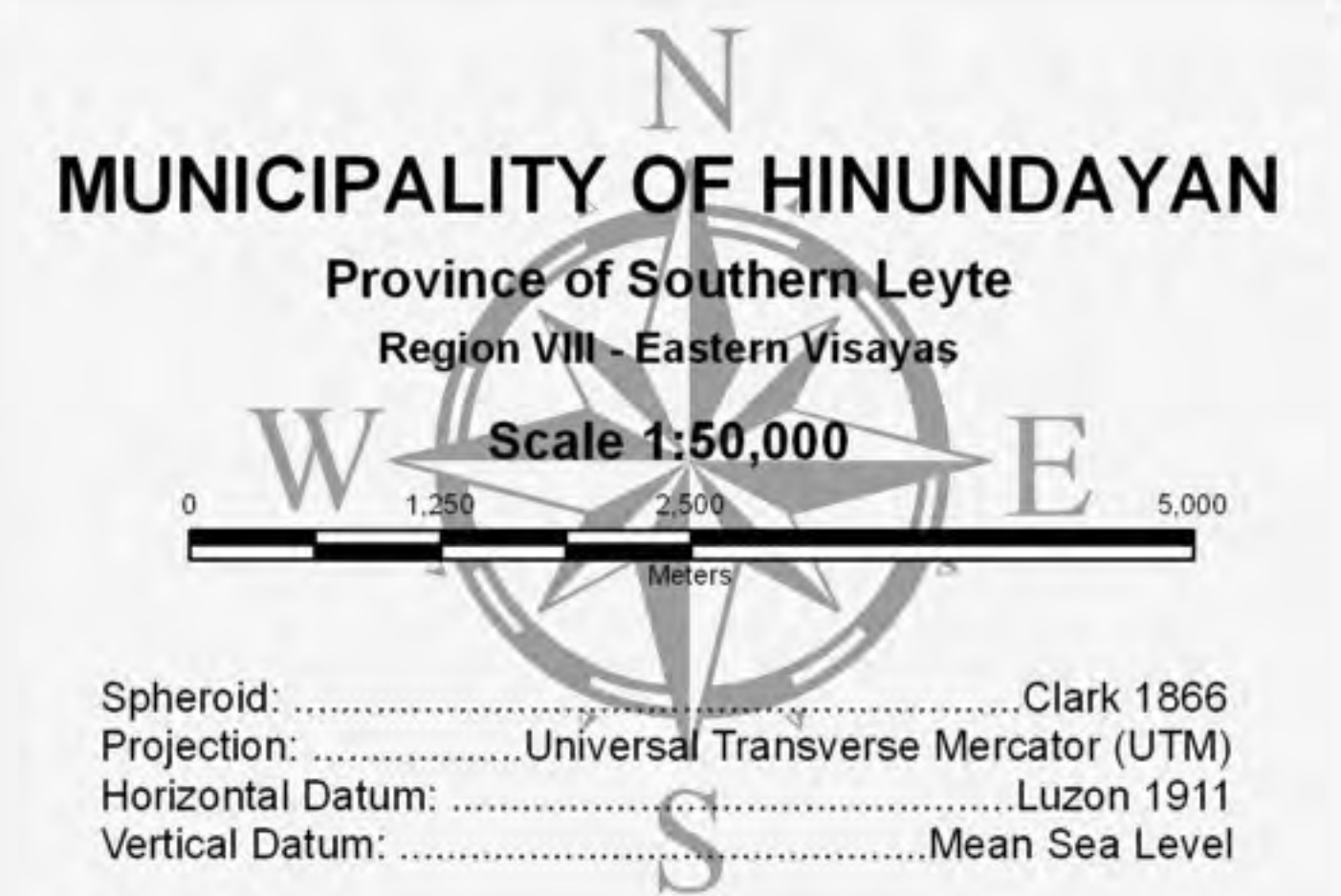
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Visayas, Philippines



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SUSCEPTIBILITY

-  Areas Highly Prone to Lahar Hazard
 Areas Moderately Prone to Lahar Hazard
 Danger Areas for Pyroclastic Flows and Surges

EXPLANATION

The danger area for pyroclastic flows and surges covers the farthest extent of mapped pyroclastic deposits from Cabalian Volcano.

LOCATION MAP



SOURCES OF DATA

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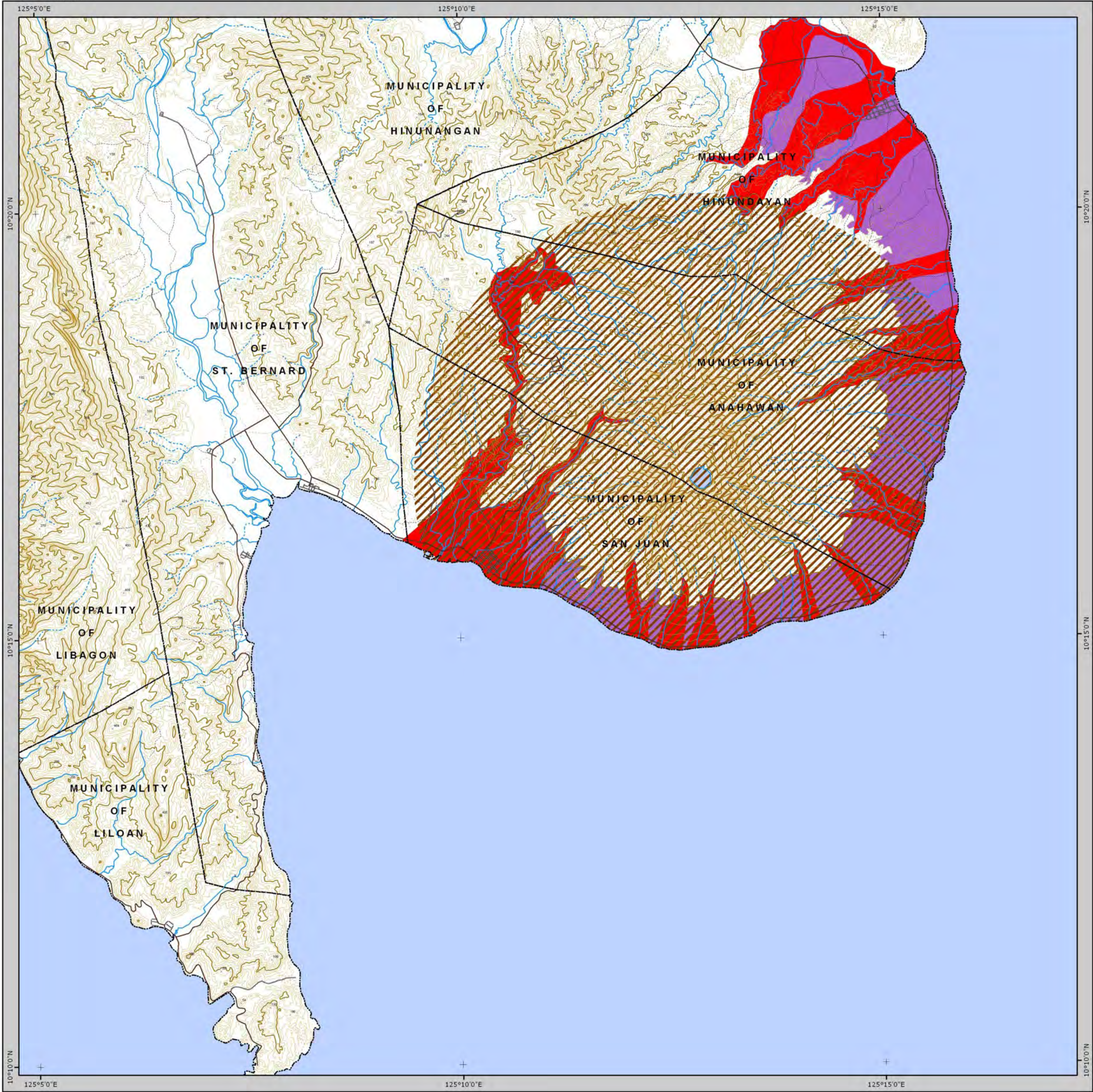
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VOLCANIC HAZARD MAP OF MT. CABALIAN

Visayas, Philippines



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Spheroid: Clark 1866
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LEGEND

- Provincial boundary
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SUSCEPTIBILITY

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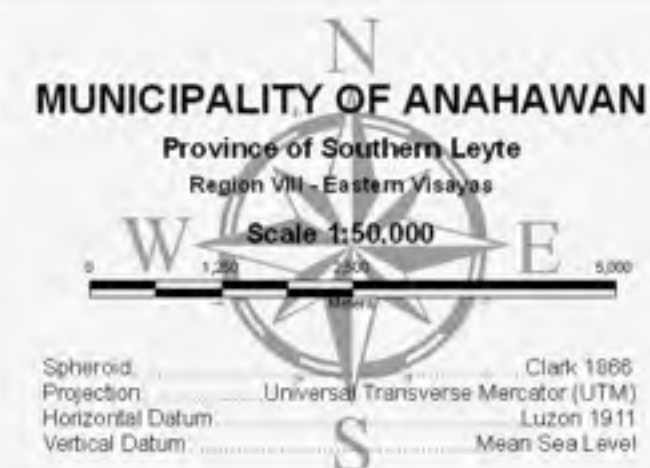
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TSUNAMI HAZARD MAP

Visayas, Philippines



LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track/ Trails
- Rivers and Creeks
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- Coastline
- Corals
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SUSCEPTIBILITY

- Tsunami Inundation Area
- Wave height

EXPLANATION

This tsunami hazard map was generated using available tsunami programs, earthquake and tectonic data, and topographic and bathymetric maps.

Limitations of the map:

The extent of tsunami inundation is based on current physical conditions of the study area.

Does not reflect the hazard that could be generated by far-field tsunami

Earthquake-induced submarine landslides that could also generate tsunami are not covered by this map

Significant erosion or deposition along the shore in the future could affect the level of tsunami hazard and may need hazard reassessment

LOCATION MAP



SOURCES OF DATA

Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
Administrative boundary, National Statistics Office (NSO) 2000
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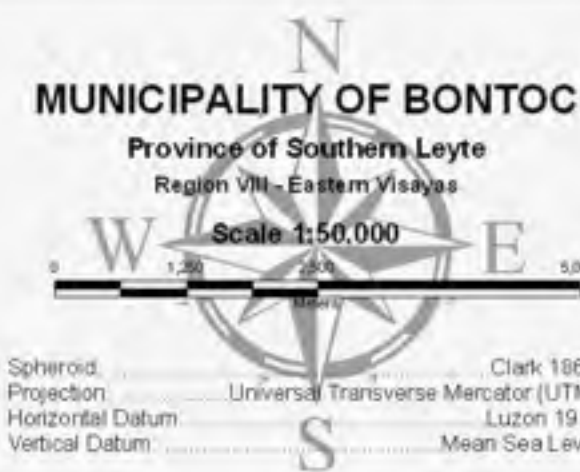
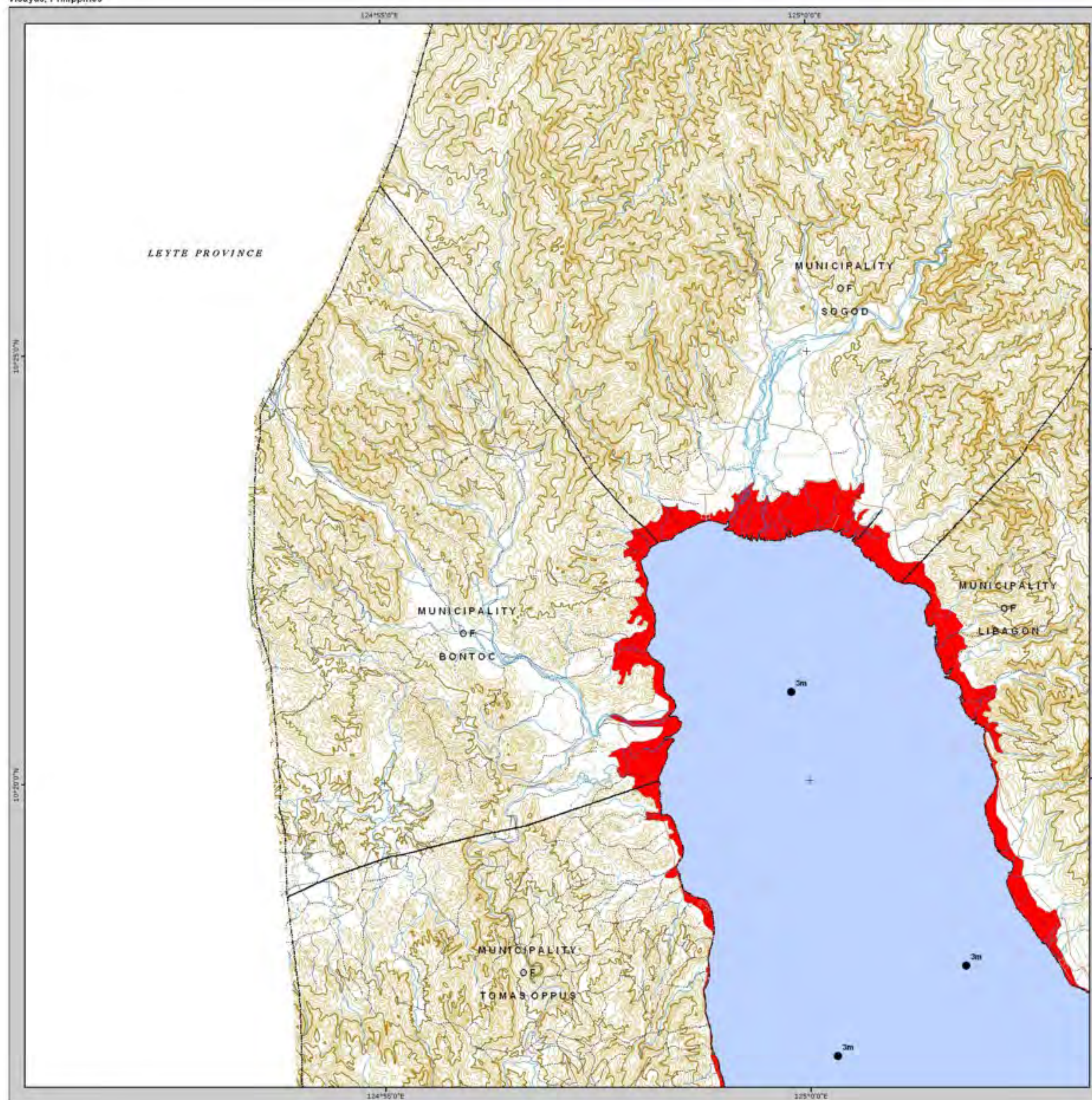
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TSUNAMI HAZARD MAP

Visayas, Philippines



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Administrative boundary, National Statistics Office (NSO) 2000

Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

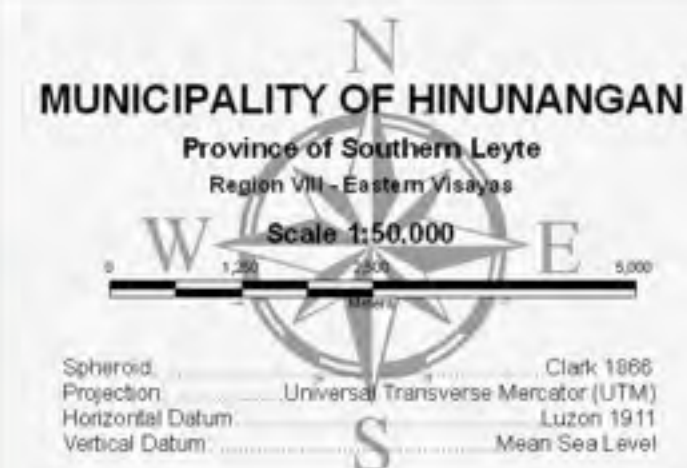
Disclaimer:

Administrative boundaries are approximate



TSUNAMI HAZARD MAP

Visayas, Philippines



LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track/ Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Tsunami Inundation Area
- Wave height

EXPLANATION

This tsunami hazard map was generated using available tsunami programs, earthquake and tectonic data, and topographic and bathymetric maps.

Limitations of the map:

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Does not reflect the hazard that could be generated by far-field tsunami

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LOCATION MAP



SOURCES OF DATA

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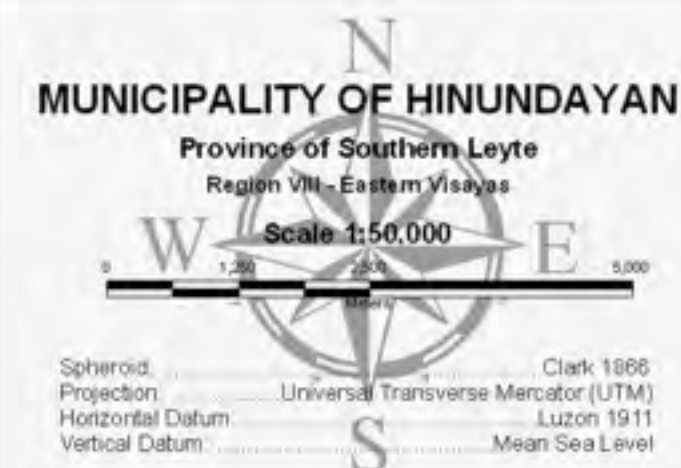
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TSUNAMI HAZARD MAP

Visayas, Philippines



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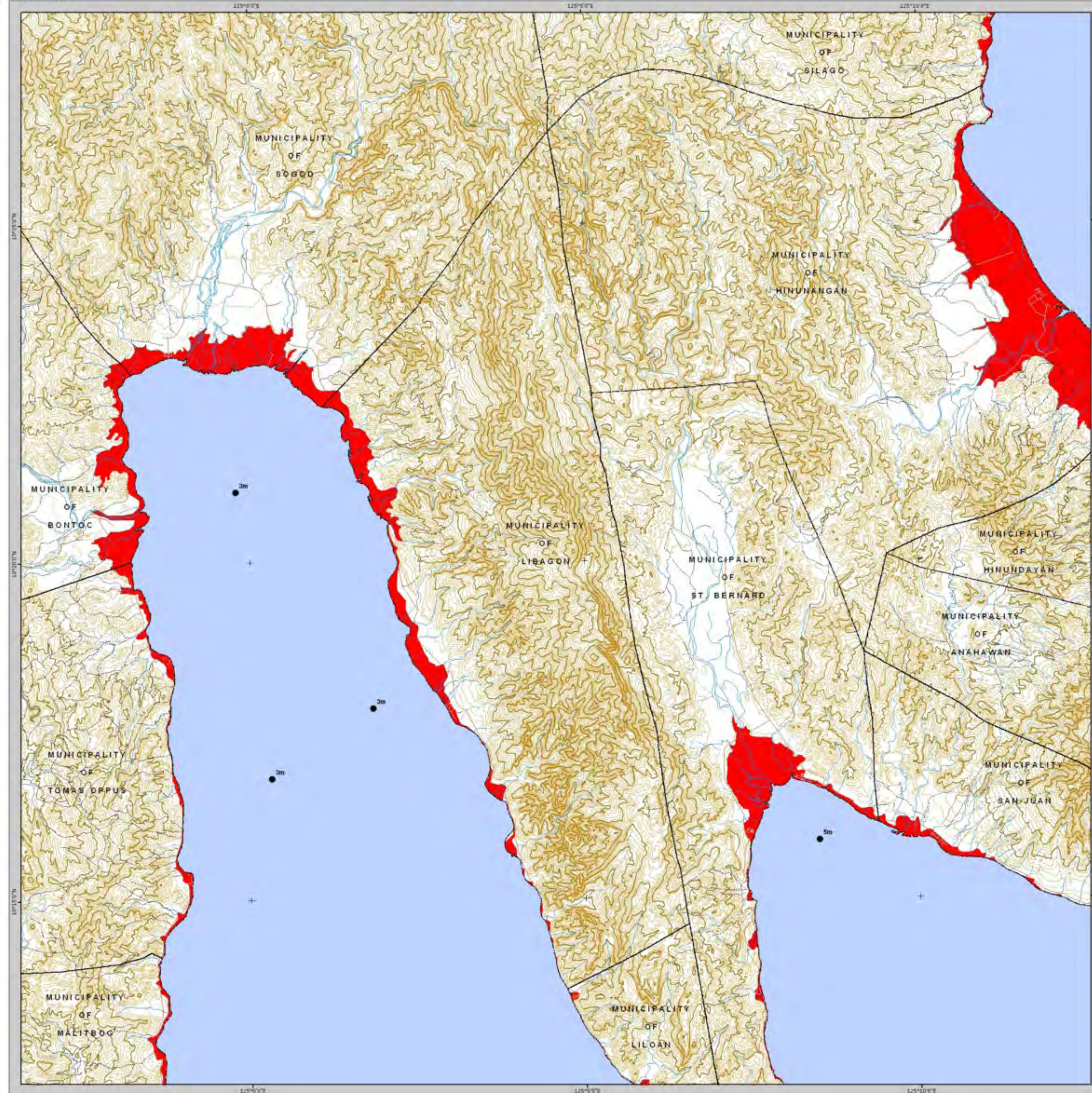
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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF LIBAGON

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000



Spheroid: Clark 1966
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

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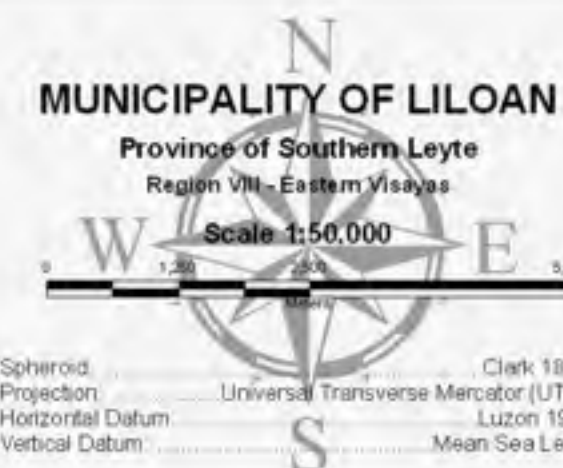
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TSUNAMI HAZARD MAP

Visayas, Philippines



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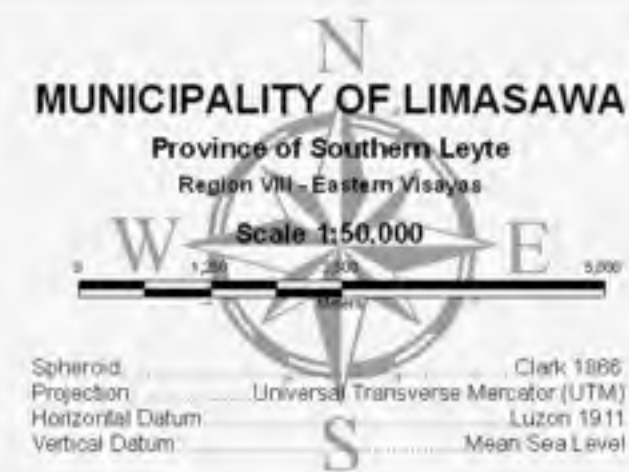
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TSUNAMI HAZARD MAP

Visayas, Philippines



LEGEND

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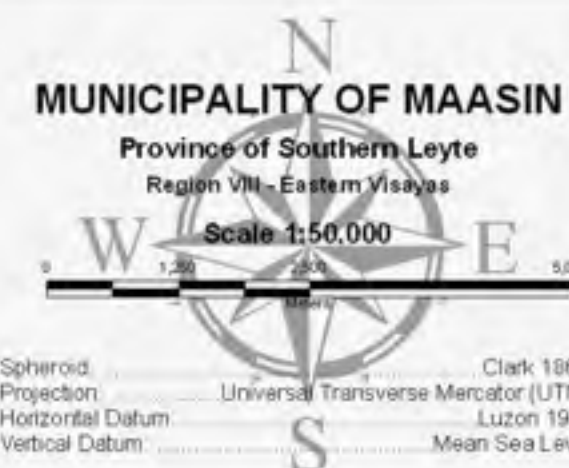
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TSUNAMI HAZARD MAP

Visayas, Philippines



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TSUNAMI HAZARD MAP

Visayas, Philippines



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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF MALITBOG
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF PADRE BURGOS

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

Spheroid: Clark 1866
 Projection: Universal Transverse Mercator (UTM)
 Horizontal Datum: Luzon 1911
 Vertical Datum: Mean Sea Level

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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF PINTUYAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

Spheroid: Clark 1886
 Projection: Universal Transverse Mercator (UTM)
 Horizontal Datum: Luzon 1911
 Vertical Datum: Mean Sea Level

LEGEND

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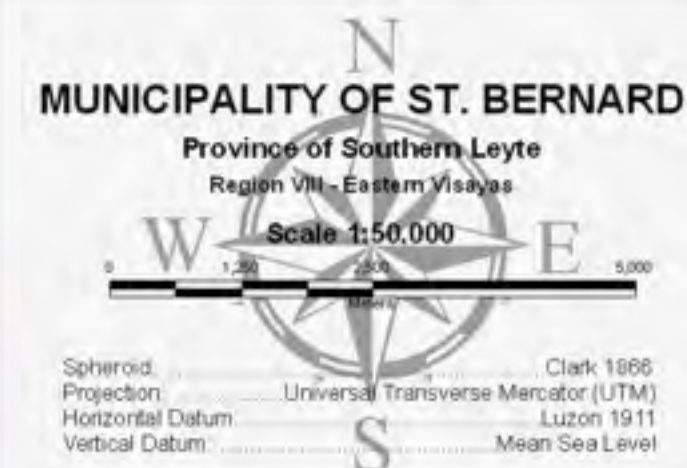
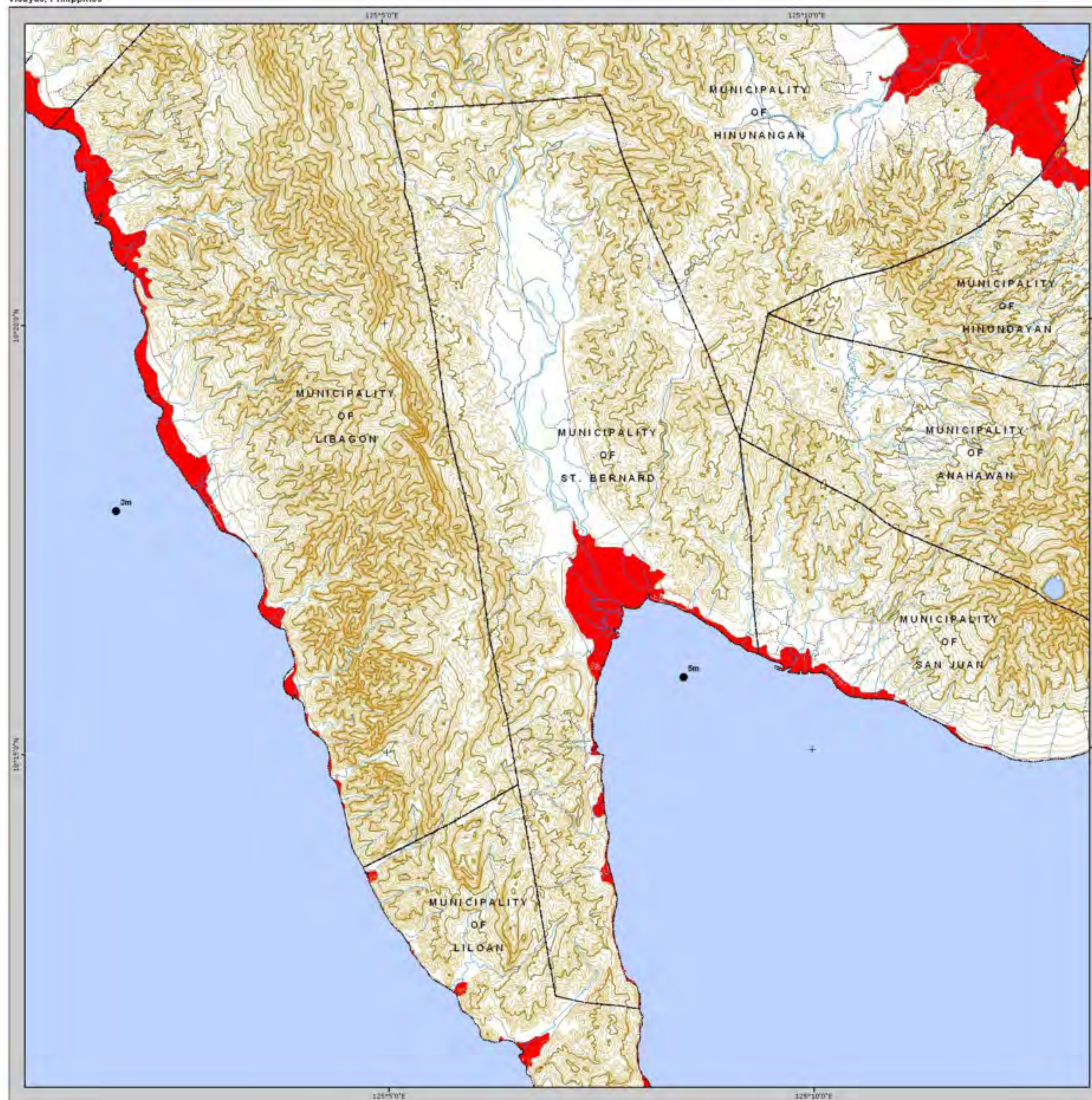
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TSUNAMI HAZARD MAP

Visayas, Philippines



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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SAN FRANCISCO

Province of Southern Leyte
Region VIII - Eastern Visayas

Scale 1:50,000

Spheroid: Clark 1886
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SAN JUAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

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Visayas, Philippines



MUNICIPALITY OF SAN RICARDO

Province of Southern Leyte
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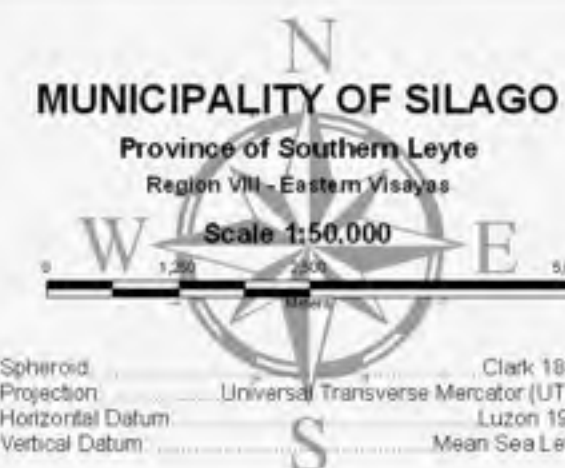
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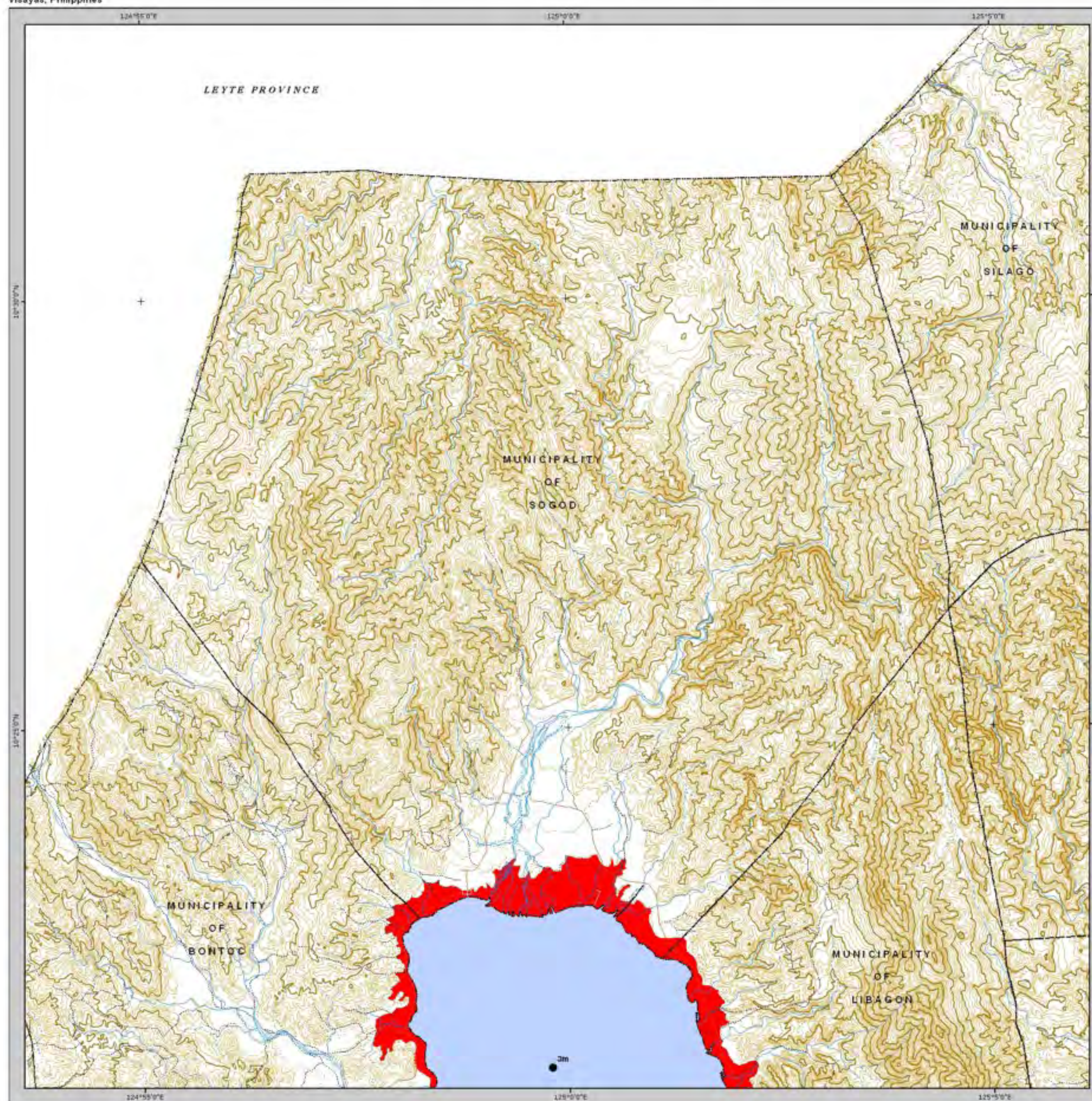
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TSUNAMI HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF TOMAS OPPUS

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

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Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
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Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

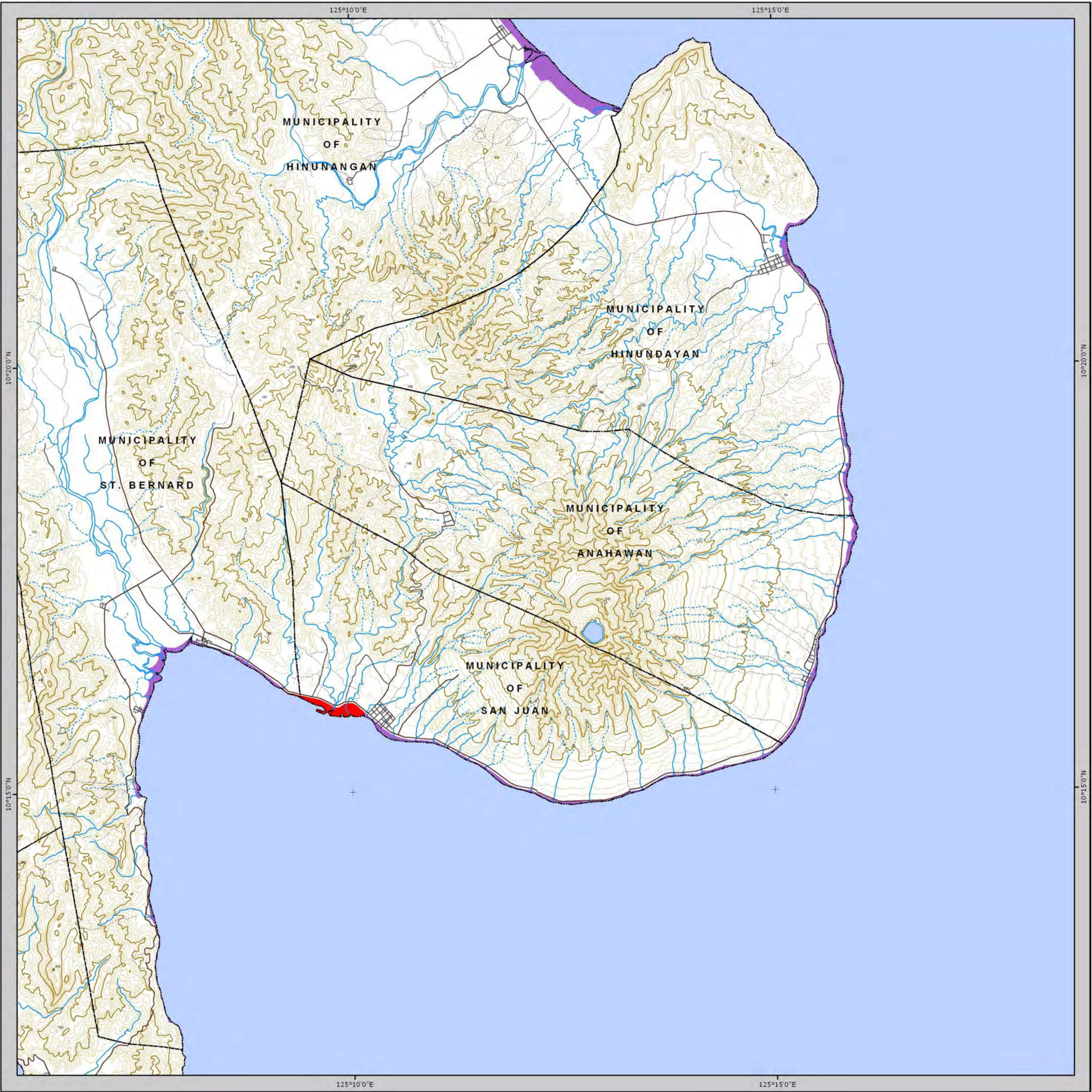
Disclaimer:

Administrative boundaries are approximate



STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF ANAHAWAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

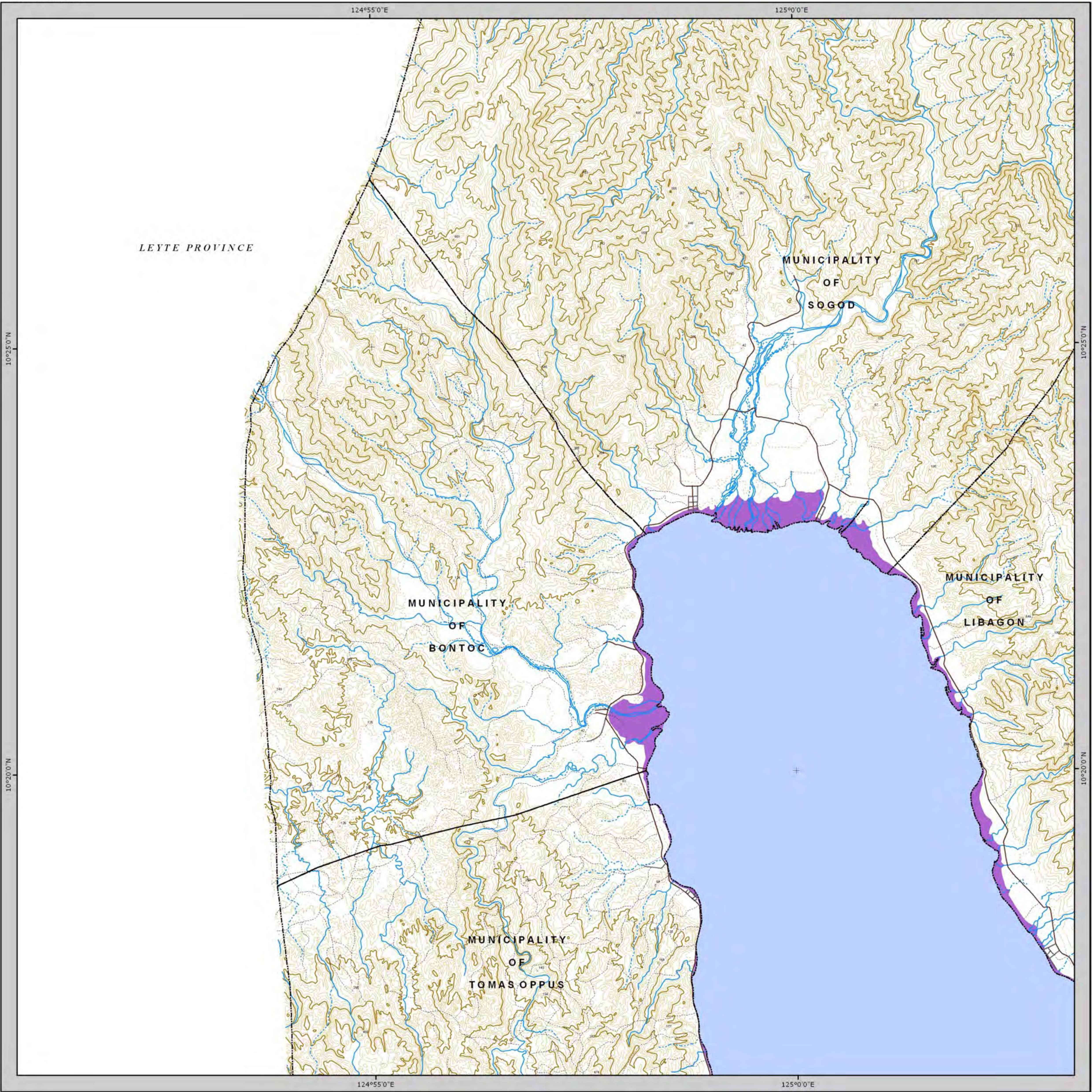
LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.





N

W

E

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MUNICIPALITY OF BONTOC

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

01,2502,5005,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.

Copyright October 2007

STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

0

1,250

2,500

5,000

Meters

MUNICIPALITY OF HINUNANGAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
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STORM SURGE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF HINUNDAYAN
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



GROUND SHAKING HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF LILOAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

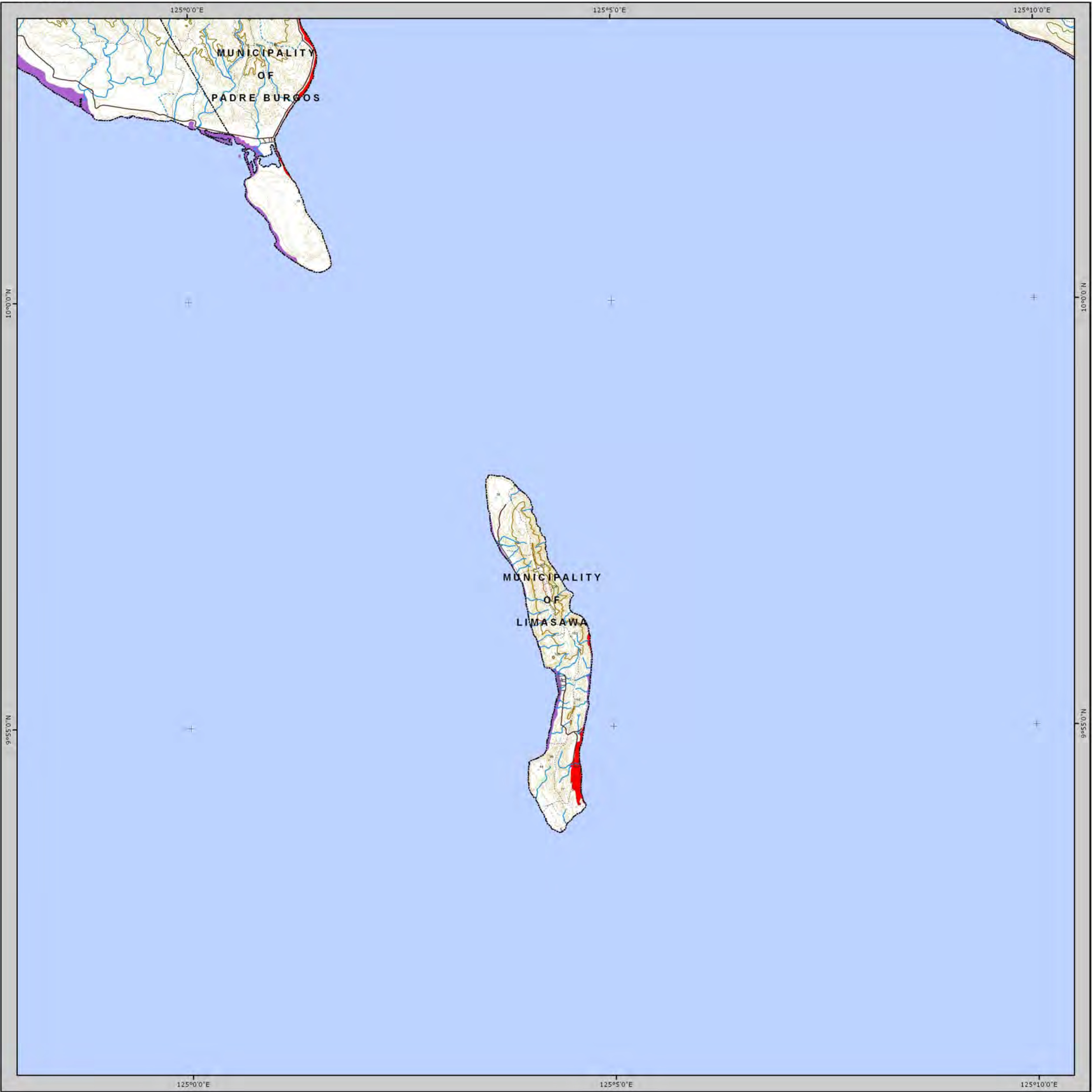
Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF LIMASAWA

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

X1176

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF MAASIN
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

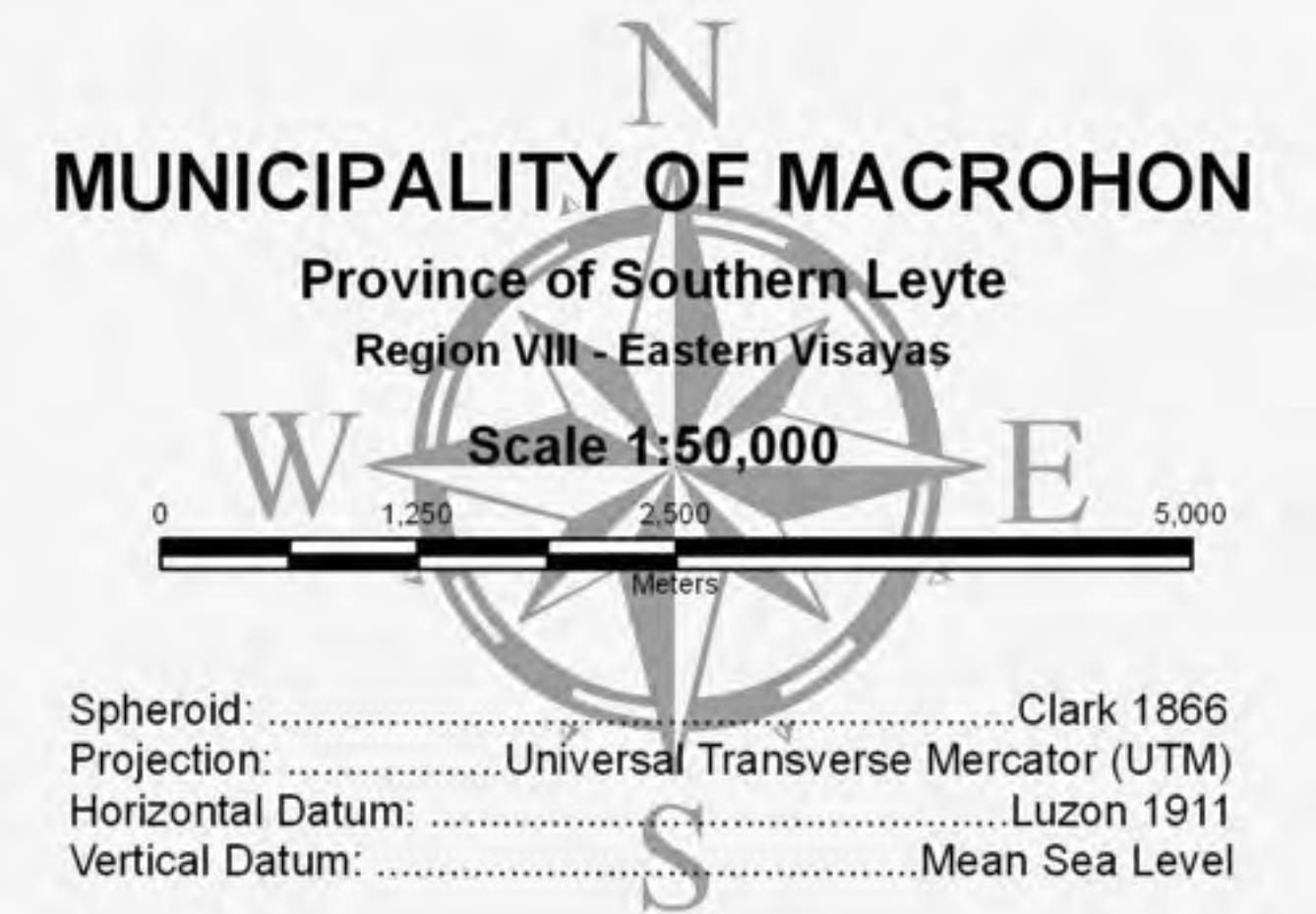
SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



Visayas, Philippines



LEGEND

- | | |
|--|-----------------------|
| | Provincial boundary |
| | Municipal boundary |
| | Hard Surface Road |
| | Light Surface Road |
| | Fair Weather Road |
| | Loose Surface Road |
| | Cart Track; Trails |
| | Rivers and Creeks |
| | Rivers intermittent |
| | Contour Index |
| | Contour Intermediate |
| | Contour Supplementary |
| | Contour Depression |
| | Coastline |
| | Corals |
| | Bridges |
| | Spot elevation |
| | Built-up Area |
| | Forested Area |
| | Water Body |

SUSCEPTIBILITY

-  Inundations of >4m. to 12m. surges
-  Inundations of >1m. to 4m. surges
-  Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP



SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and
Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:

Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF MALITBOG
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

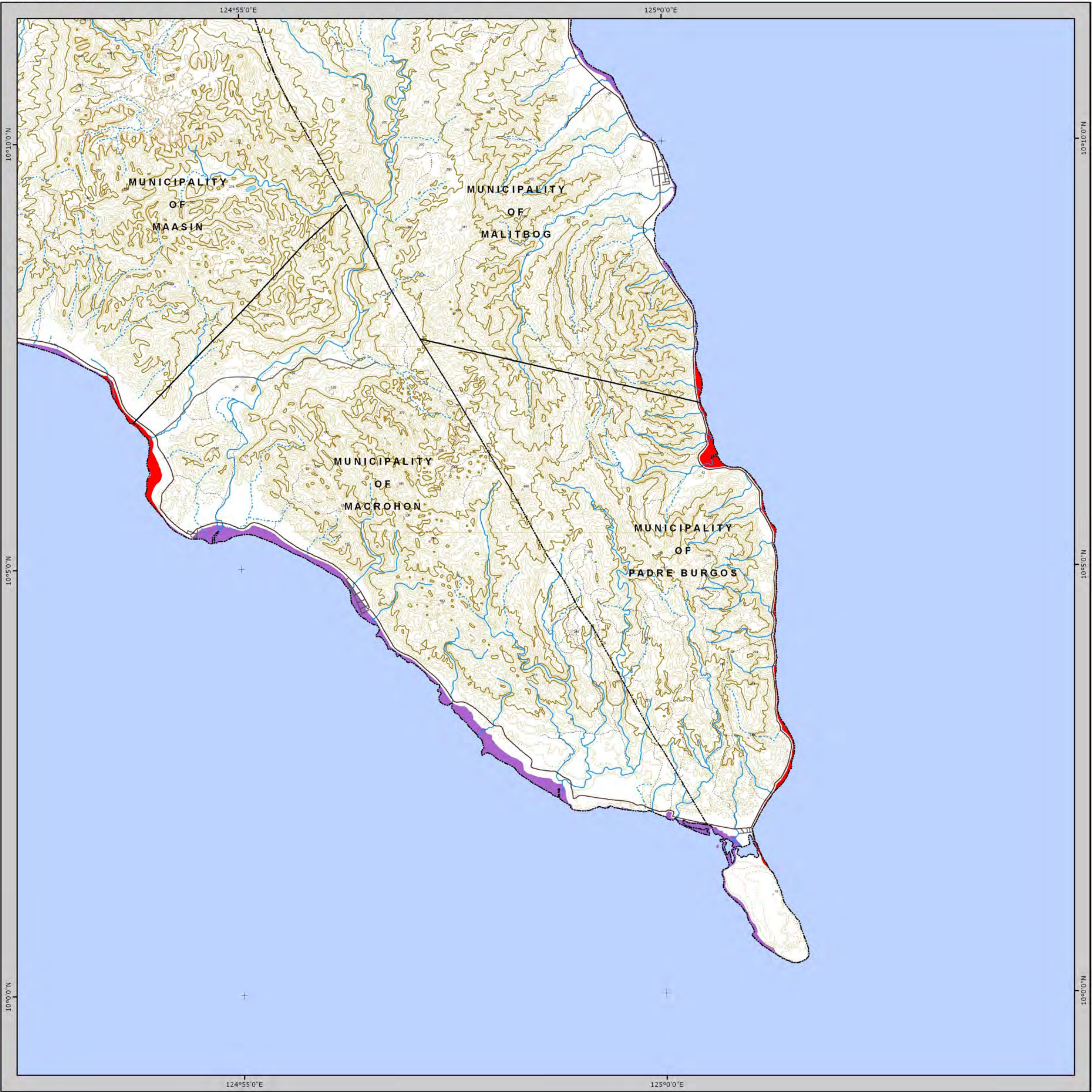
Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF PADRE BURGOS

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track/ Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP



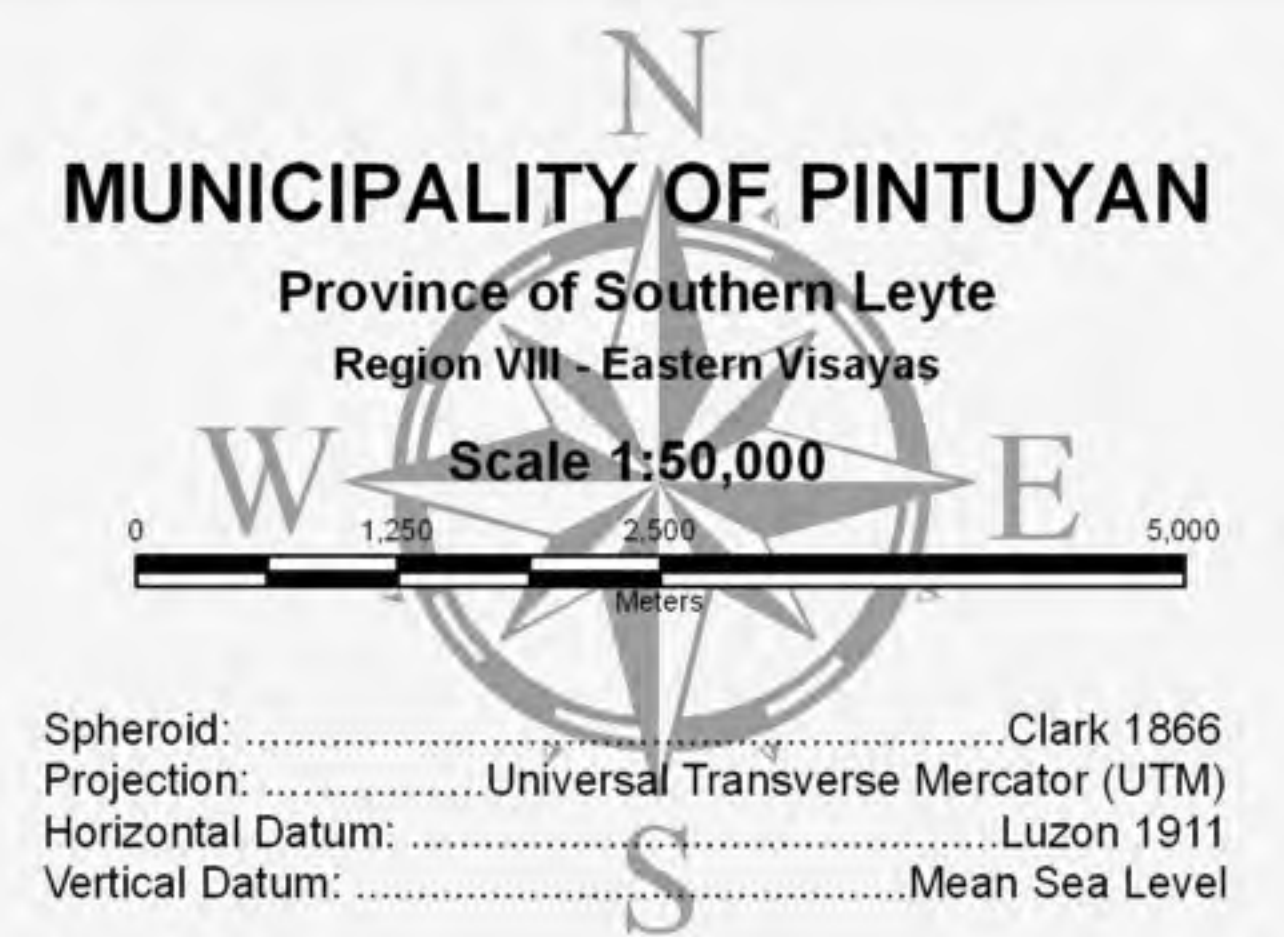
SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



Visayas, Philippines



LEGEND

- | | |
|--|-----------------------|
| | Provincial boundary |
| | Municipal boundary |
| | Hard Surface Road |
| | Light Surface Road |
| | Fair Weather Road |
| | Loose Surface Road |
| | Cart Track: Trails |
| | Rivers and Creeks |
| | Rivers intermittent |
| | Contour Index |
| | Contour Intermediate |
| | Contour Supplementary |
| | Contour Depression |
| | Coastline |
| | Corals |
| | Bridges |
| | Spot elevation |
| | Built-up Area |
| | Forested Area |
| | Water Body |

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP



SOURCES OF DATA

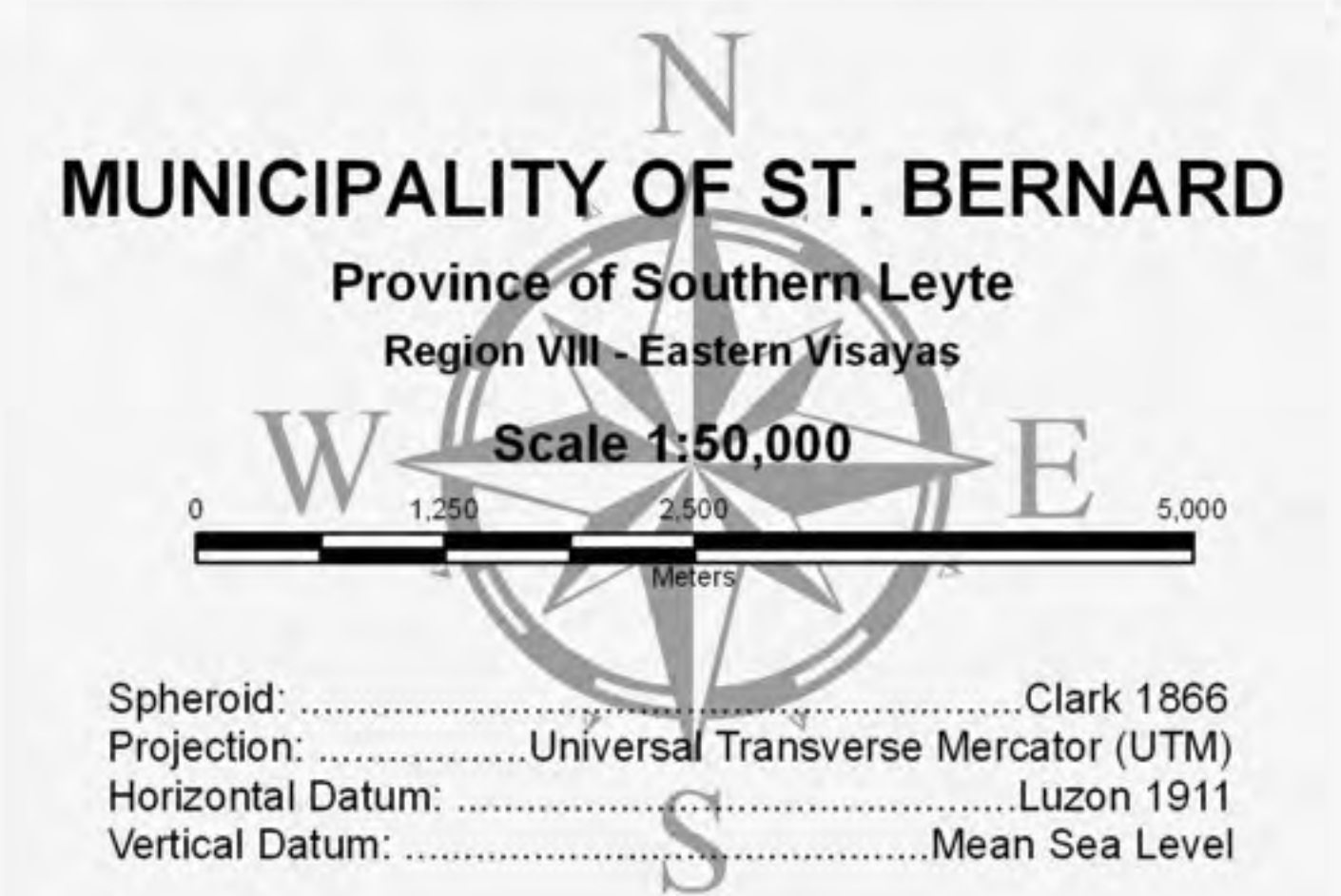
Hazard Data, DOST - Philippine Atmospheric, Geophysical and
Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:

Administrative boundaries are approximate.



Visayas, Philippines



LEGEND

- | | |
|--|-----------------------|
| | Provincial boundary |
| | Municipal boundary |
| | Hard Surface Road |
| | Light Surface Road |
| | Fair Weather Road |
| | Loose Surface Road |
| | Cart Track; Trails |
| | Rivers and Creeks |
| | Rivers intermittent |
| | Contour Index |
| | Contour Intermediate |
| | Contour Supplementary |
| | Contour Depression |
| | Coastline |
| | Corals |
| | Bridges |
| | Spot elevation |
| | Built-up Area |
| | Forested Area |
| | Water Body |

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

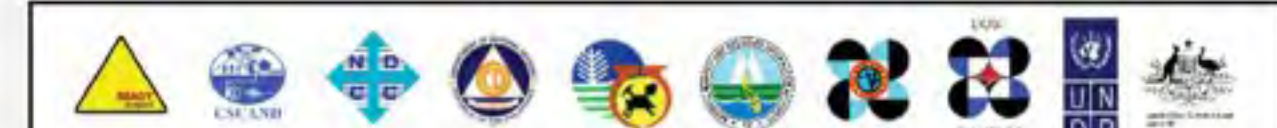


SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and
Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

Disclaimer:

Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF SAN FRANCISCO

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0 1,250 2,500 5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP



SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

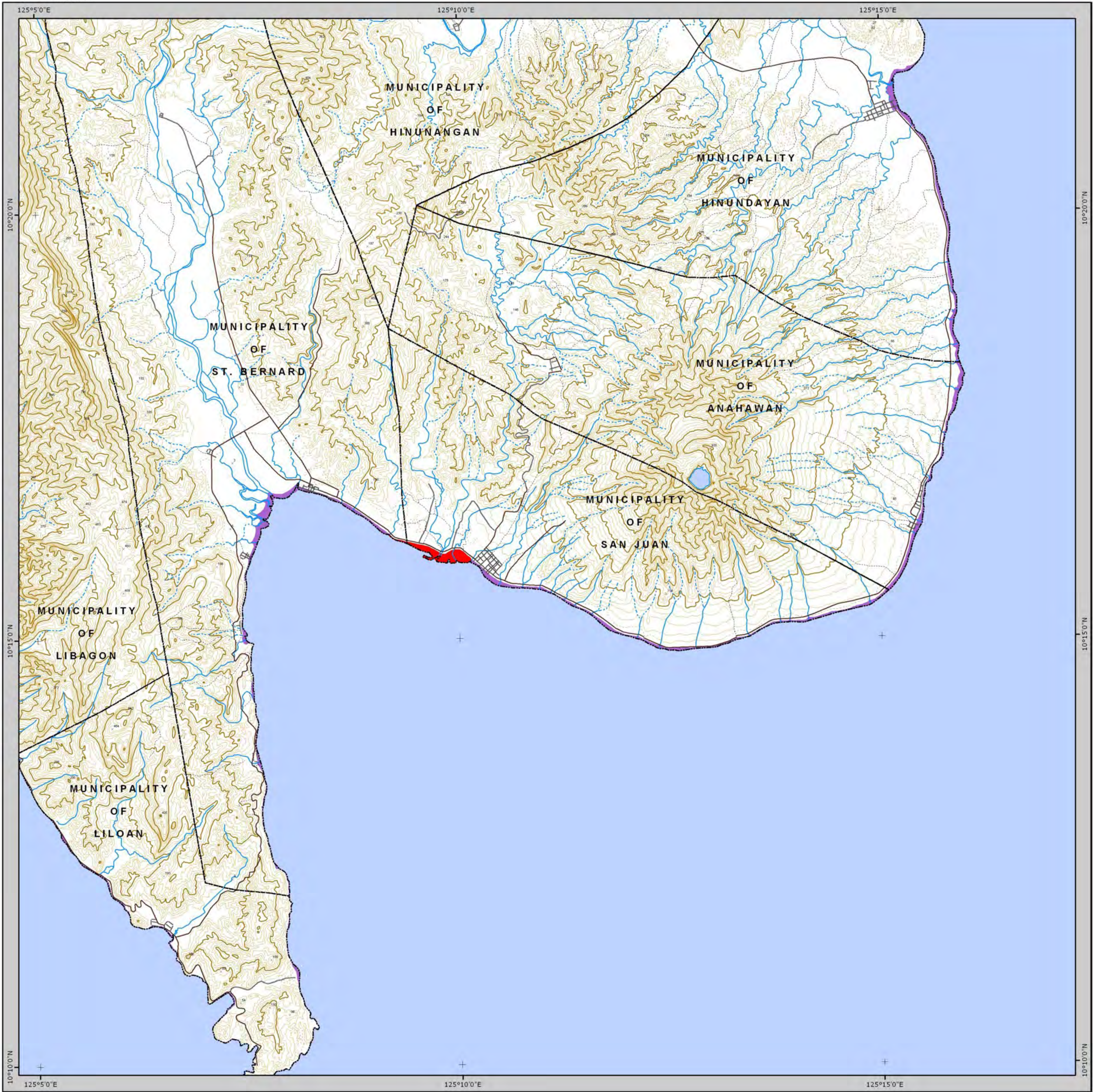
Disclaimer:

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STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF SAN JUAN

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track: Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

×1176

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
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STORM SURGE HAZARD MAP

Visayas, Philippines



N

E

S

W

0

1,250

2,500

5,000

Meters

Scale 1:50,000

Municipality of San Ricardo

Province of Southern Leyte

Region VIII - Eastern Visayas

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

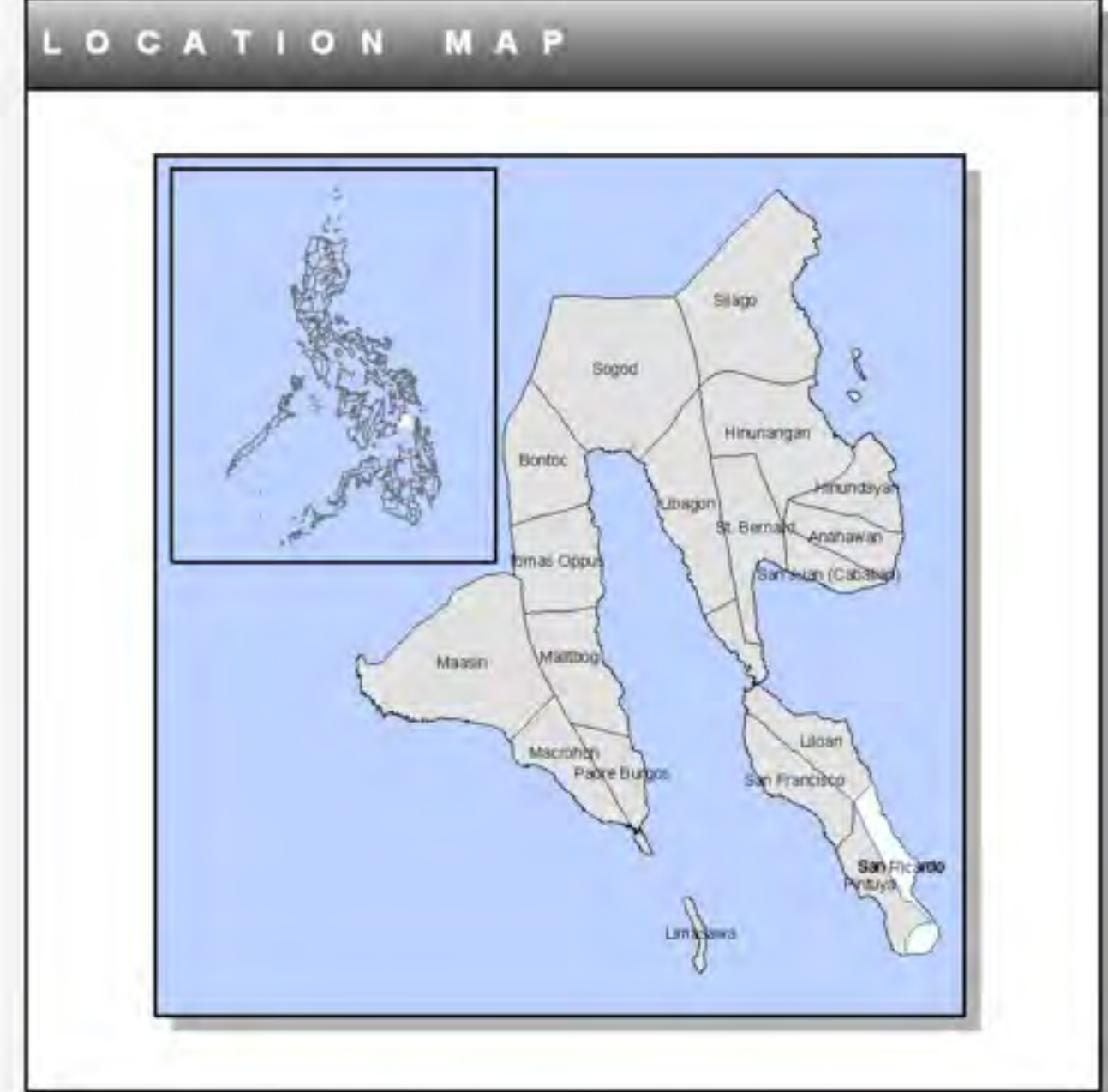
Vertical Datum: Mean Sea Level

LEGEND	
	Provincial boundary
	Municipal boundary
	Hard Surface Road
	Light Surface Road
	Fair Weather Road
	Loose Surface Road
	Cart Track: Trails
	Rivers and Creeks
	Rivers intermittent
	Contour Index
	Contour Intermediate
	Contour Supplementary
	Contour Depression
	Coastline
	Corals
	Bridges
	Spot elevation
	Built-up Area
	Forested Area
	Water Body

SUSCEPTIBILITY	
	Inundations of >4m. to 12m. surges
	Inundations of >1m. to 4m. surges
	Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.



SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



N

W

E

S

MUNICIPALITY OF SILAGO

Province of Southern Leyte

Region VIII - Eastern Visayas

Scale 1:50,000

0

1,250

2,500

5,000

Meters

Spheroid: Clark 1866

Projection: Universal Transverse Mercator (UTM)

Horizontal Datum: Luzon 1911

Vertical Datum: Mean Sea Level

LEGEND

Provincial boundary

Municipal boundary

Hard Surface Road

Light Surface Road

Fair Weather Road

Loose Surface Road

Cart Track/ Trails

Rivers and Creeks

Rivers intermittent

Contour Index

Contour Intermediate

Contour Supplementary

Contour Depression

Coastline

Corals

Bridges

Spot elevation

Built-up Area

Forested Area

Water Body

SUSCEPTIBILITY

Inundations of >4m. to 12m. surges

Inundations of >1m. to 4m. surges

Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF SOGOD
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
- Bridges
- Spot elevation
- Built-up Area
- Forested Area
- Water Body

SUSCEPTIBILITY

- Inundations of >4m. to 12m. surges
- Inundations of >1m. to 4m. surges
- Inundations of 1m. surges

EXPLANATION

The inundation coverage is estimated based on geomorphologic analysis and observation in the areas during interviews/surveys. The surge heights are computed using the data gathered during surveys in reference to the significant tropical cyclone occurrences and from storm surge model results.

LOCATION MAP

SOURCES OF DATA

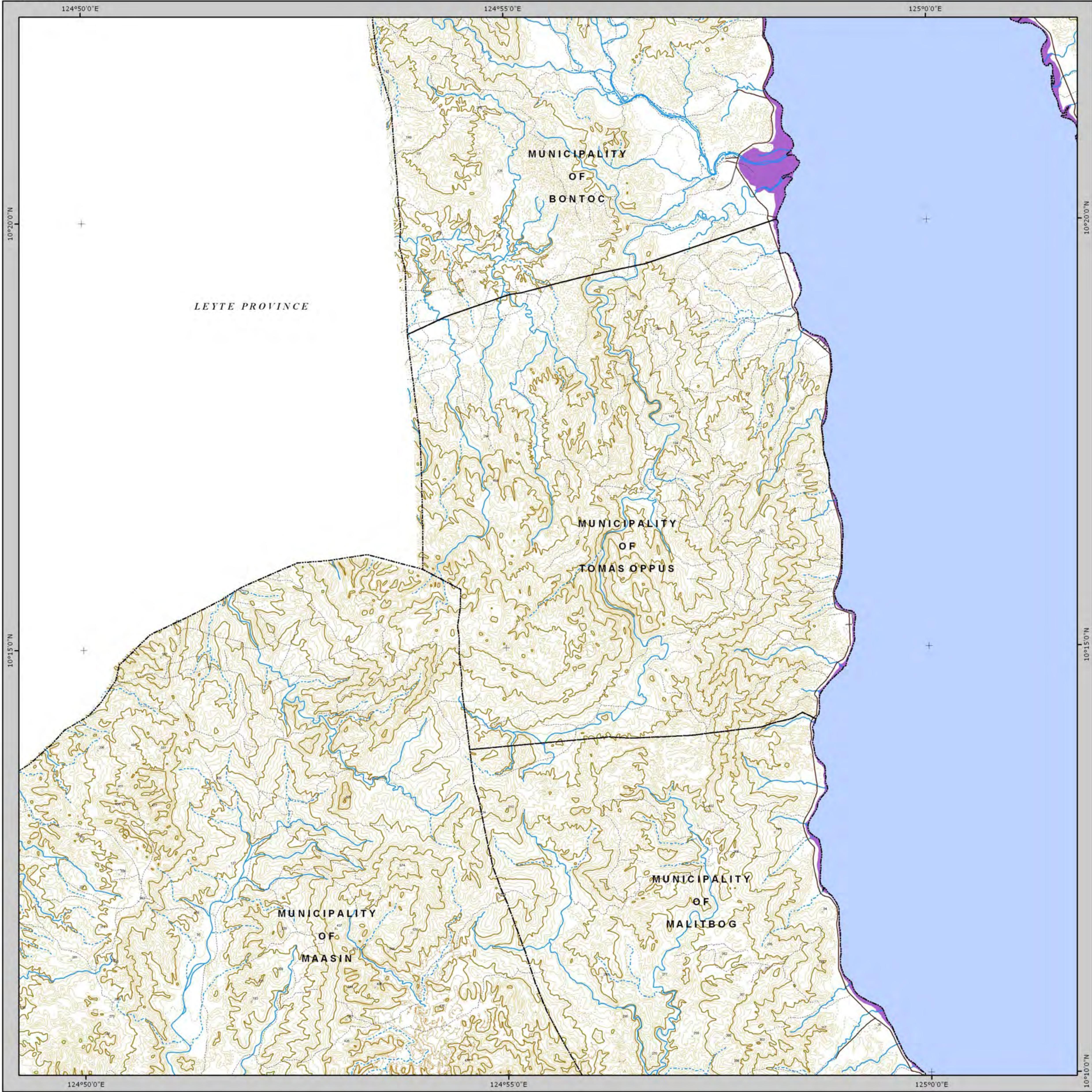
Hazard Data, DOST - Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



STORM SURGE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF TOMAS OPPUS
Province of Southern Leyte
Region VIII - Eastern Visayas
Scale 1:50,000

Spheroid: Clark 1866
Projection: Universal Transverse Mercator (UTM)
Horizontal Datum: Luzon 1911
Vertical Datum: Mean Sea Level

LEGEND

- Provincial boundary
- Municipal boundary
- Hard Surface Road
- Light Surface Road
- Fair Weather Road
- Loose Surface Road
- Cart Track: Trails
- Rivers and Creeks
- Rivers intermittent
- Contour Index
- Contour Intermediate
- Contour Supplementary
- Contour Depression
- Coastline
- Corals
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