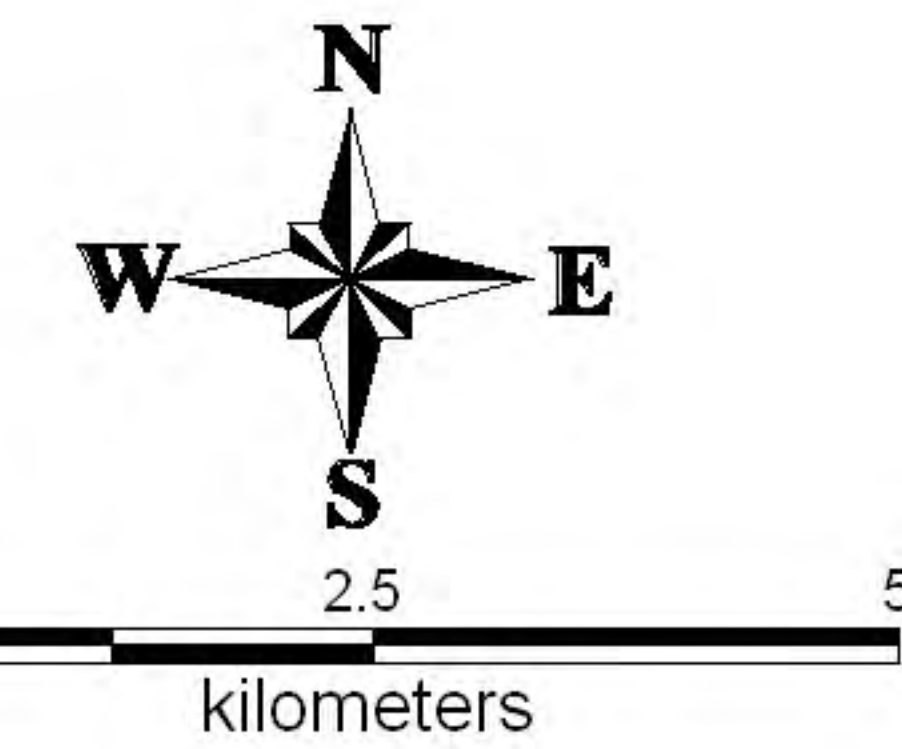
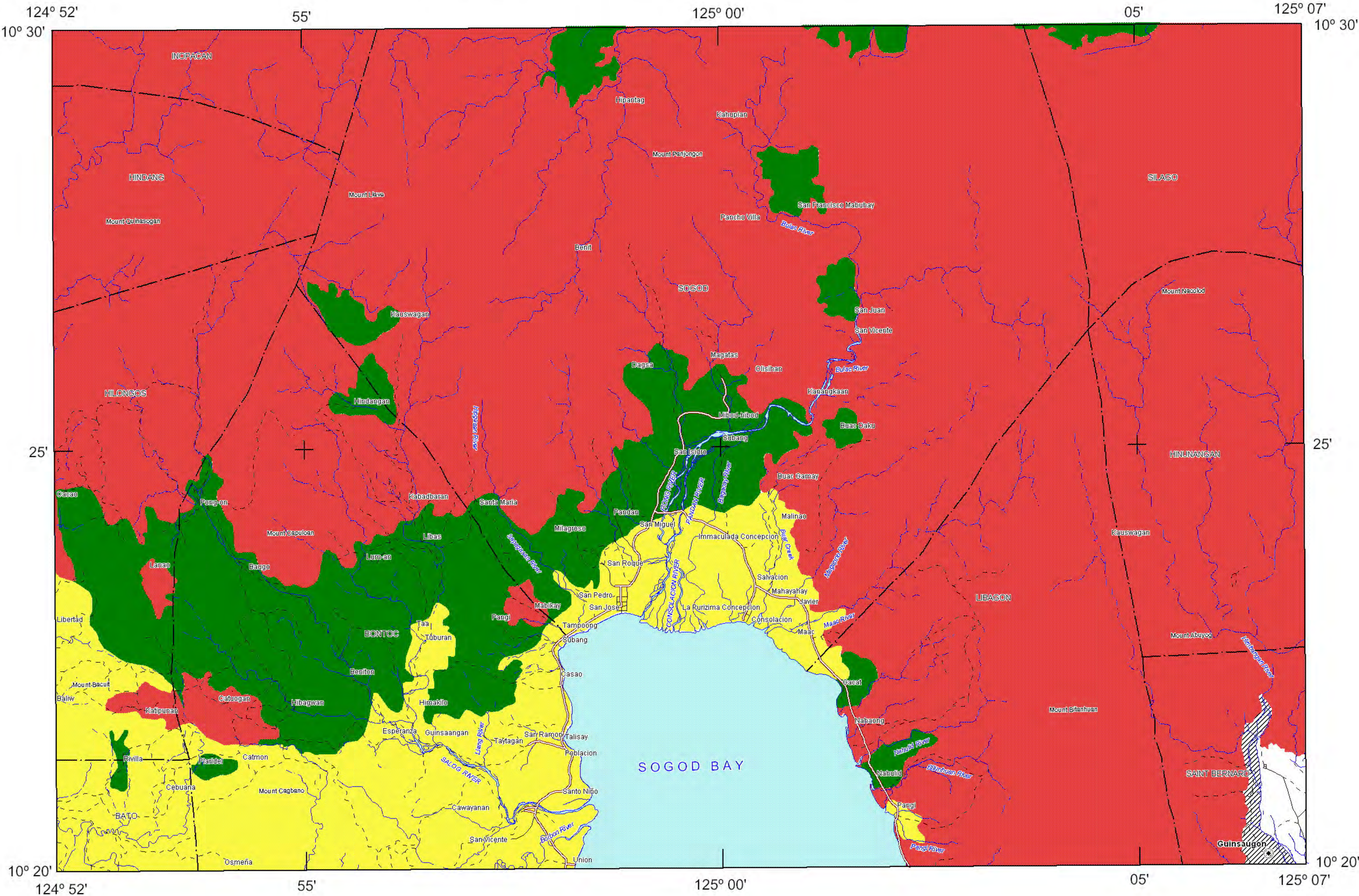


LANDSLIDE SUSCEPTIBILITY MAP OF SOGOD QUADRANGLE SOUTHERN LEYTE, PHILIPPINES



SCALE 1:50, 000
TRANSVERSE MERCATOR PROJECTION

LEGEND :

- **High susceptibility to landslide**
Areas with high landslide susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly susceptible to landslides.
- **Moderate susceptibility to landslide**
Areas with moderate landslide susceptibility rating have inactive/old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes.
- **Low susceptibility to landslide**
Areas with low to gentle slopes and lacking tension cracks have low landslide susceptibility rating.
- Possible landslide debris accumulation zone**
These are areas where landslide debris could accumulate.
- Road
- Trail
- River
- Municipal Boundary

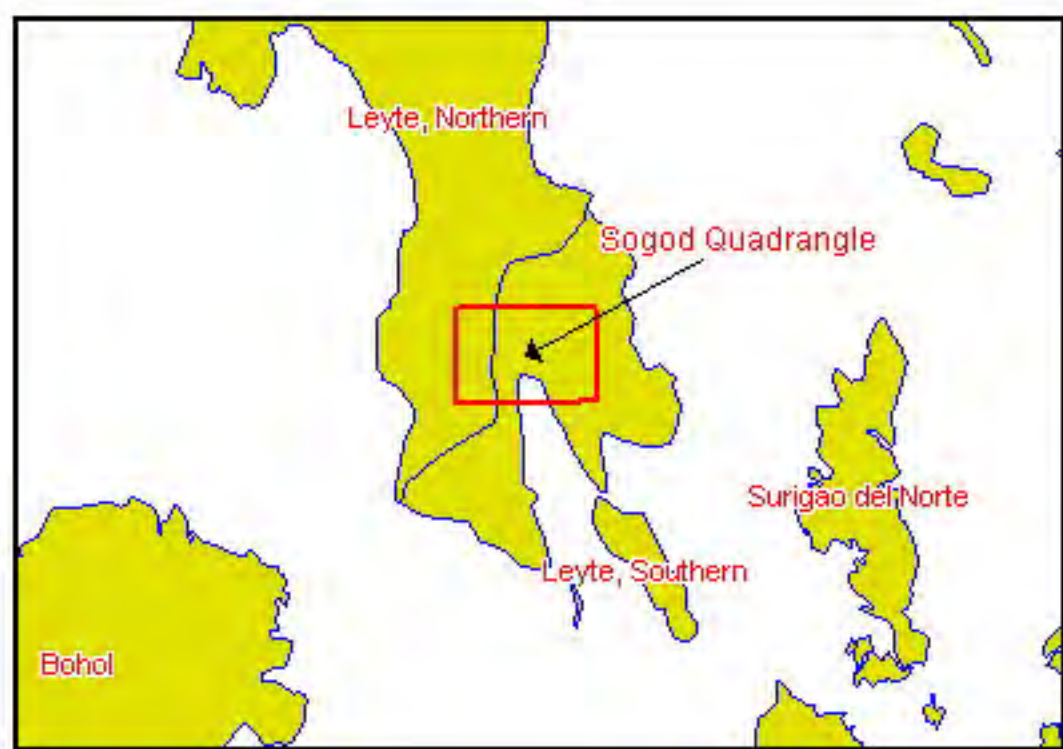
Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and Information Systems Section
MGB RO VIII

Base Maps :

Topo Sheet No. 3951 II
"Sogod Quadrangle"

INDEX MAP



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION

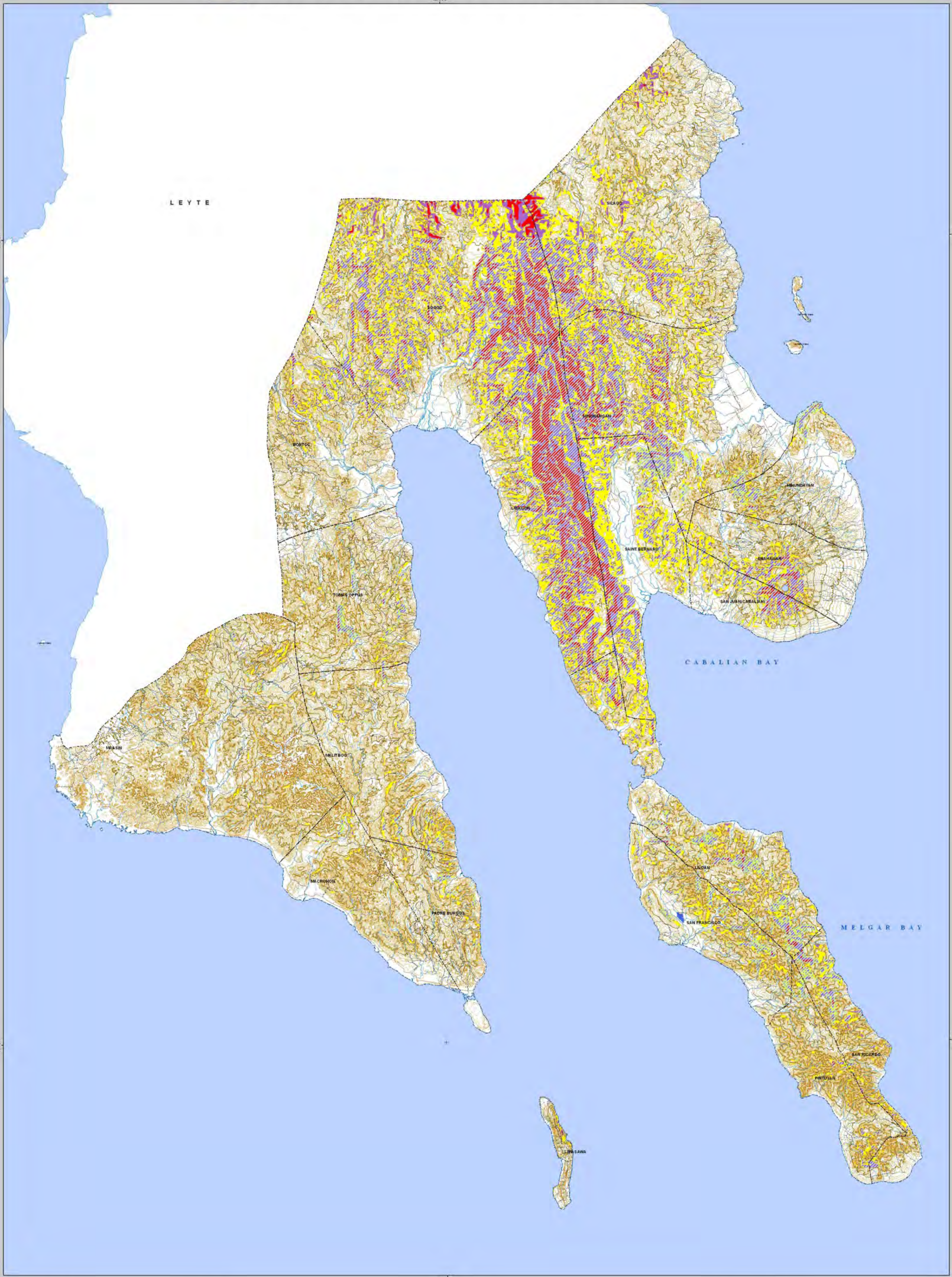


With Technical Assistance From
Japan International Cooperation Agency

With Cooperation and Assistance From
Local Government Unit of Southern Leyte



EARTHQUAKE-INDUCED LANDSLIDE HAZARD 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 T33
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.

LEGEND

Provincial boundary	Contour Index
Municipal boundary	Contour Intermediate
Main Road	Contour Supplementary
Secondary Road	Contour Depression
Trails	Spot elevation
Rivers and Creeks	1:75 Bulk-up Area
Rivers intermittent	Water Body
Coastline	
Bridges	
Coral	

SUSCEPTIBILITY

High Susceptibility
Moderate Susceptibility
Low Susceptibility
Not Susceptible
Possible landslide depositional/affected zone

PROVINCE OF SOUTHERN LEYTE
REGION VIII - Eastern Visayas

SCALE 1:80,000

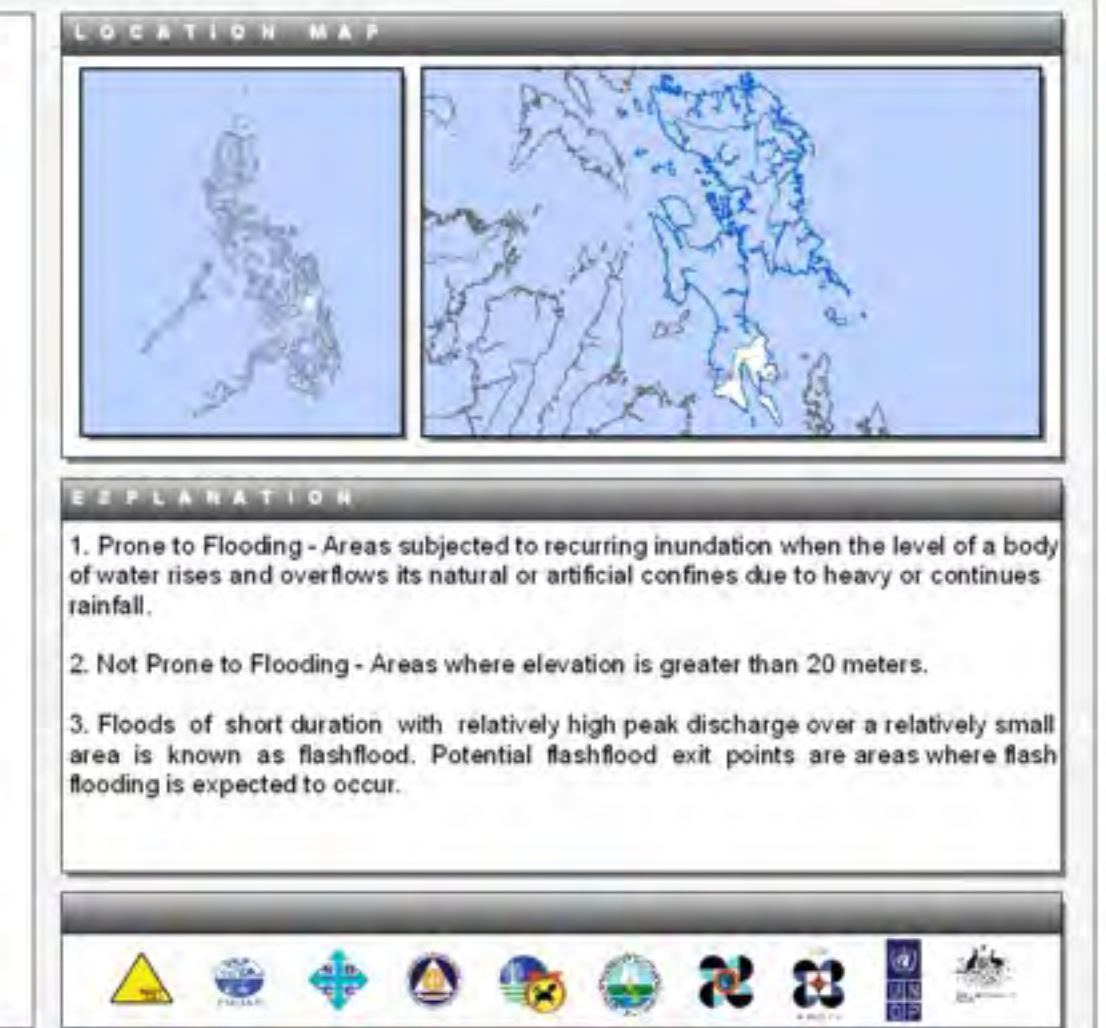
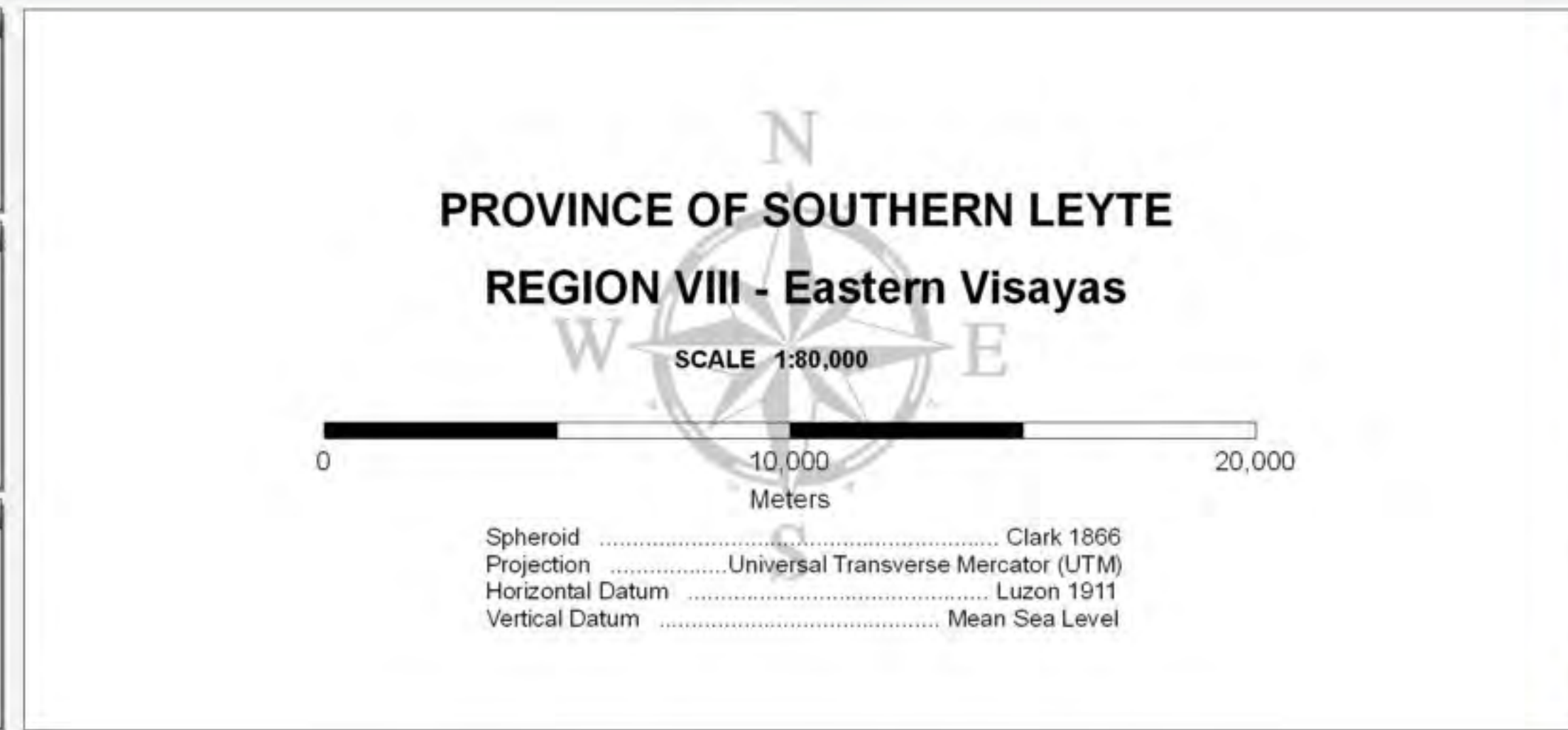
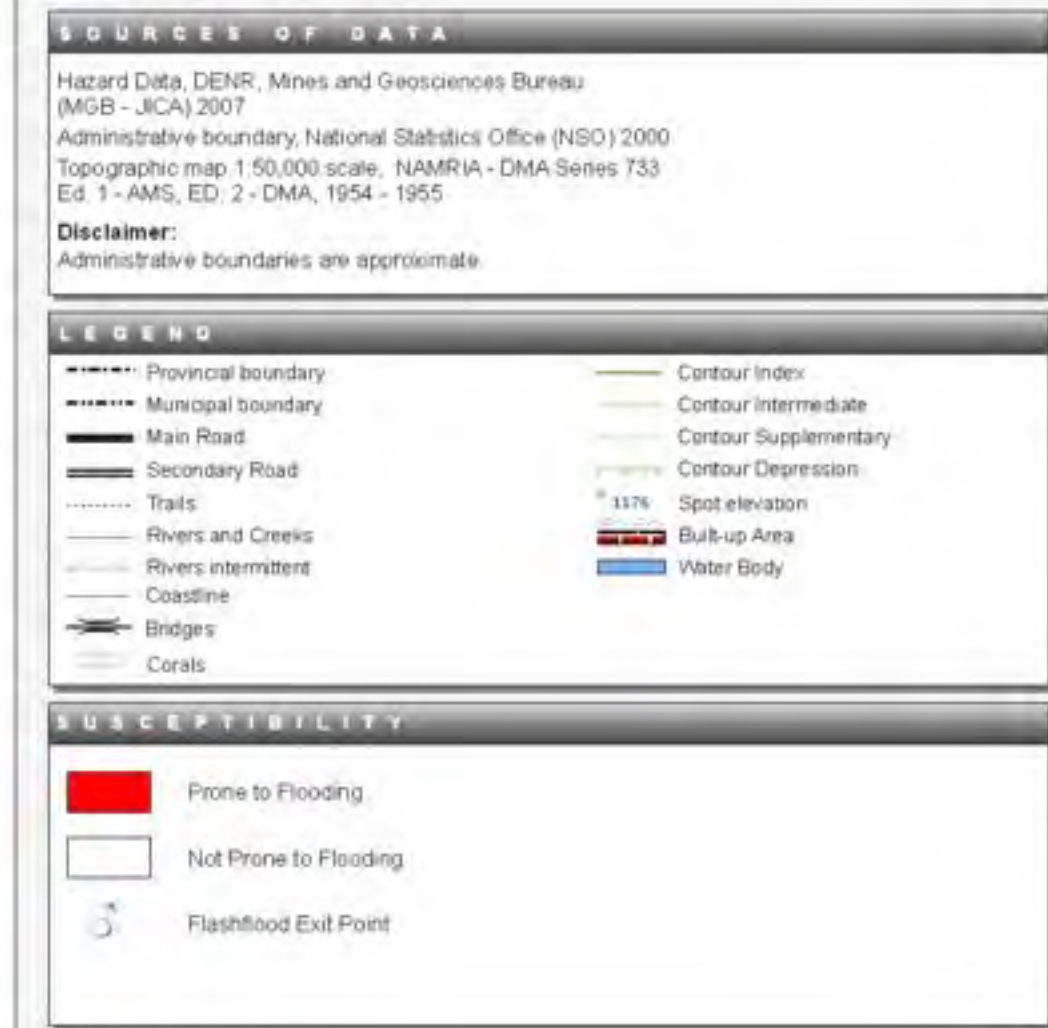
0 10,000 20,000
Meters

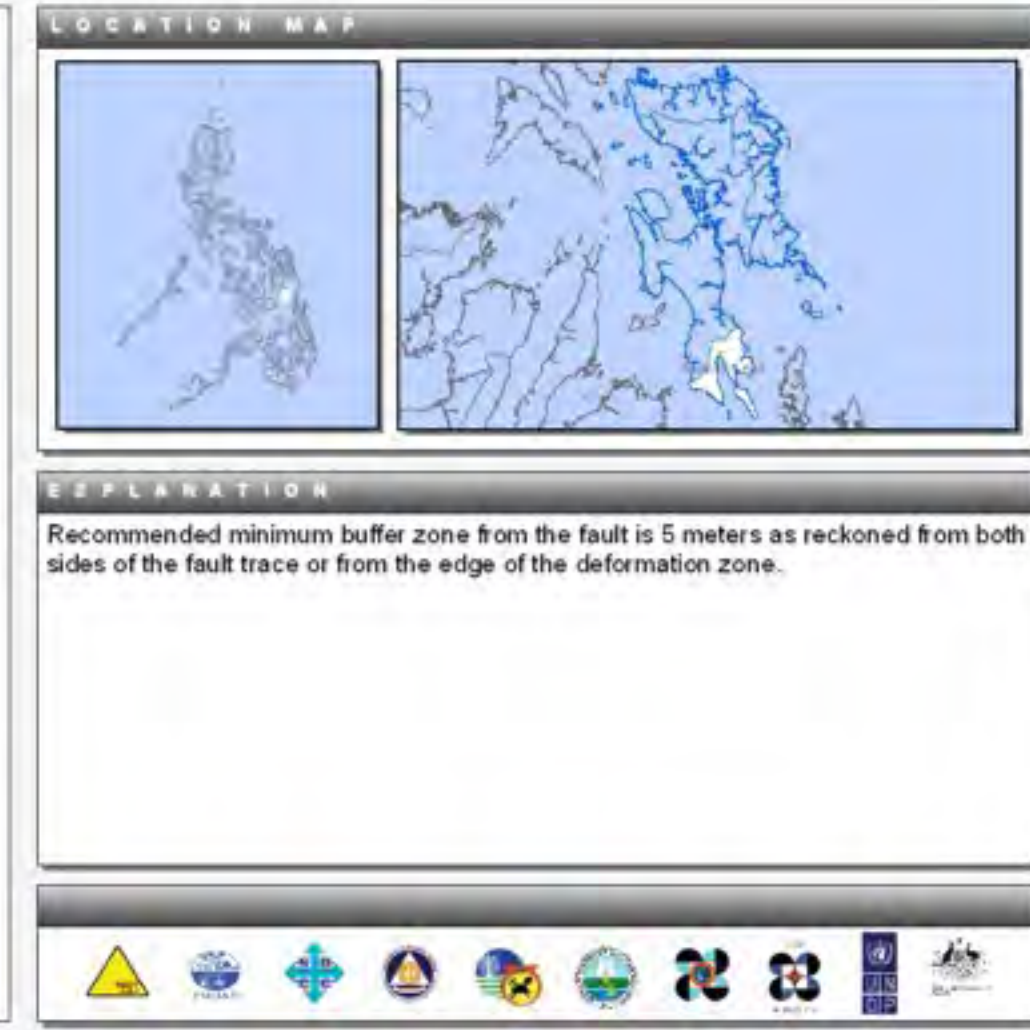
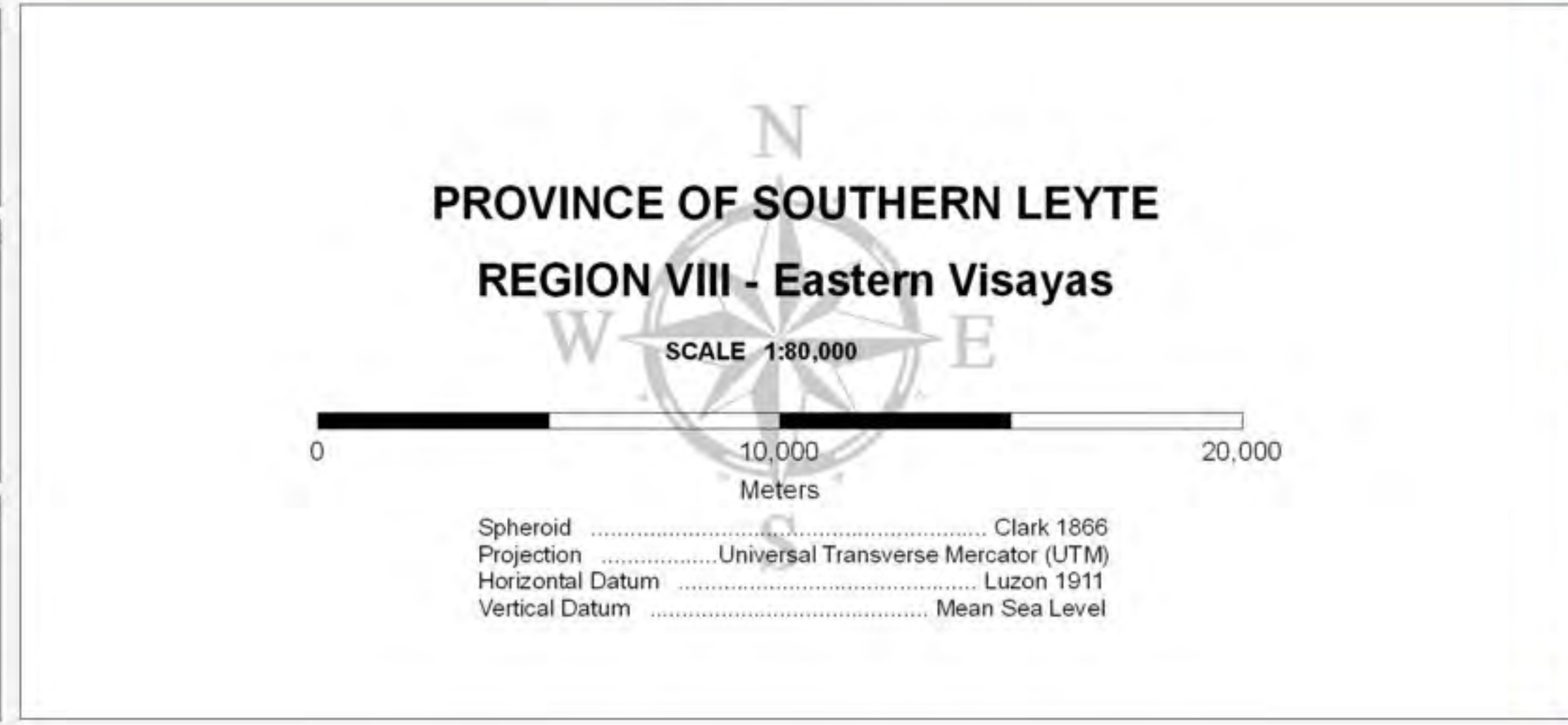
Spheroid Clark 1866
Projection Universal Transverse Mercator (UTM)
Horizontal Datum Luzon 1911
Vertical Datum Mean Sea Level

LOCATION MAP

EXPLANATION

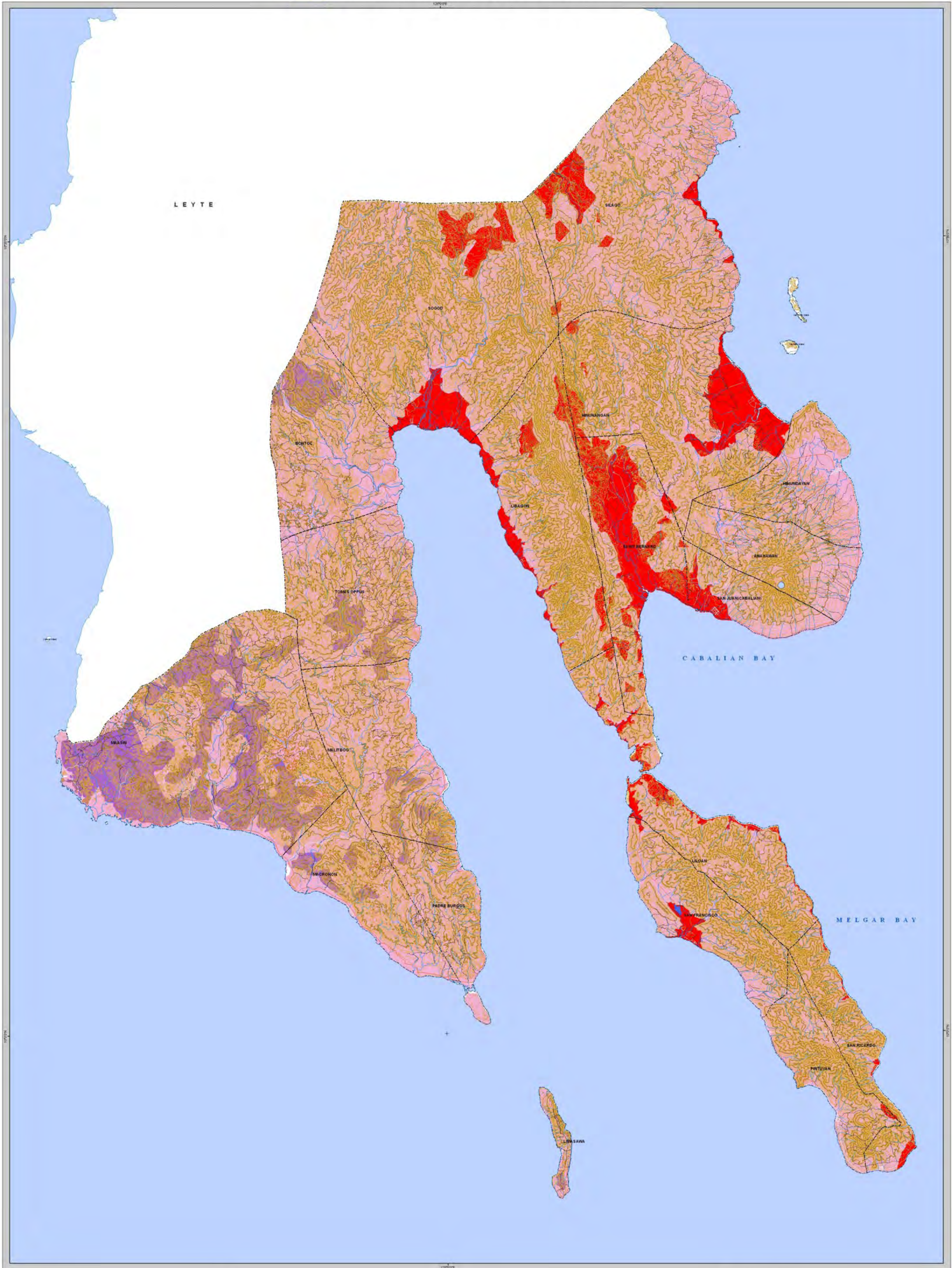
Earthquake-induced landslide hazard map was produced by simulating the largest possible earthquake magnitude occurring in the area. Landslide potentials were calculated using a) the computed Factor of Safety (FOS), b) simulated ground shaking by Fukushima and Tanaka, and c) critical acceleration of slope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







GROUND SHAKING HAZARD 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.

LEGEND

Provincial boundary	Contour Index
Municipal boundary	Contour Intermediate
Main Road	Contour Supplementary
Secondary Road	Contour Depression
Trails	Spot elevation
Rivers and Creeks	Built-up Area
Rivers intermittent	Water Body
Coastline	
Bridges	
Coral	

SUSCEPTIBILITY

Yellow	*PEIS Intensity lower than VI
Purple	*PEIS Intensity VI
Pink	*PEIS Intensity VII
Red	*PEIS Intensity VIII and above

*PEIS - PHIVOLCS Earthquake Intensity Scale

PROVINCE OF SOUTHERN LEYTE
REGION VIII - Eastern Visayas

SCALE 1:80,000

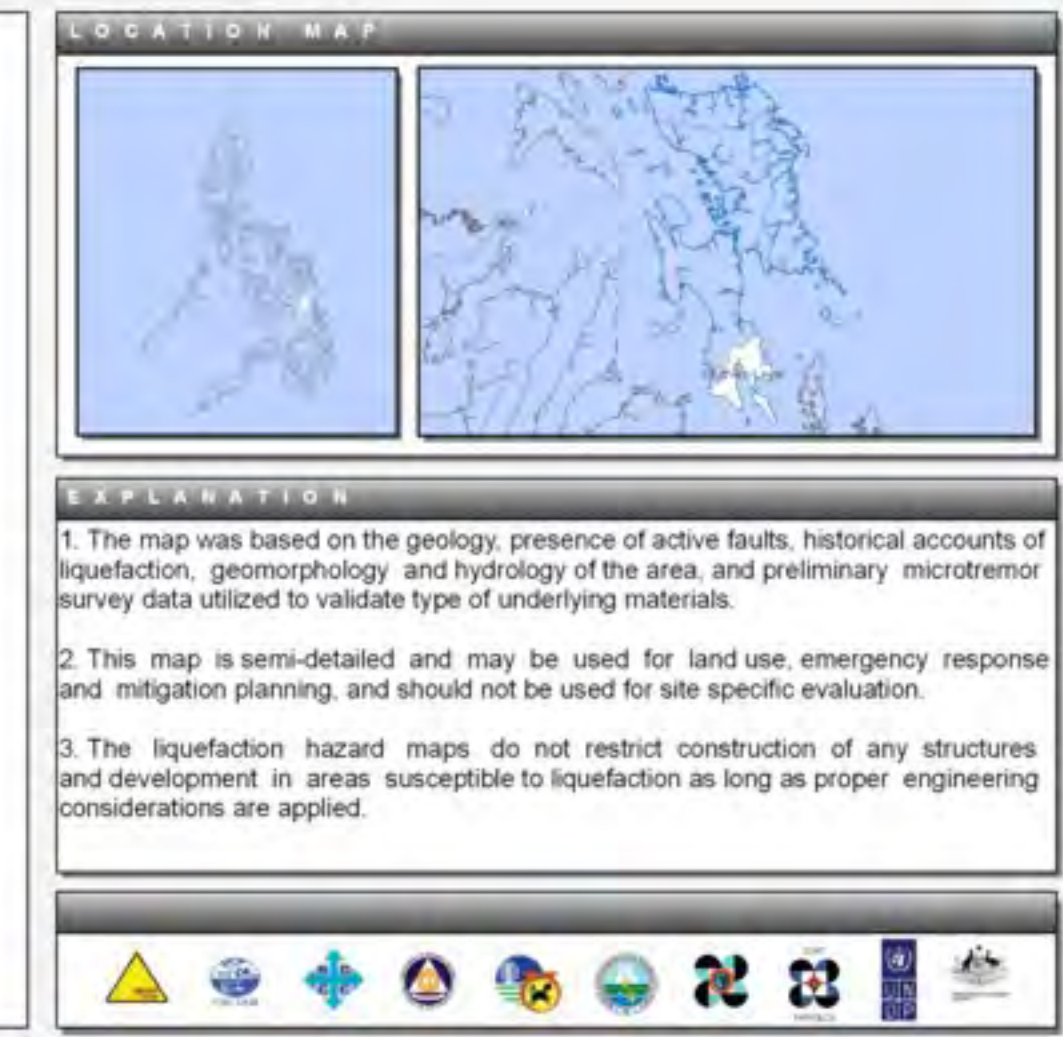
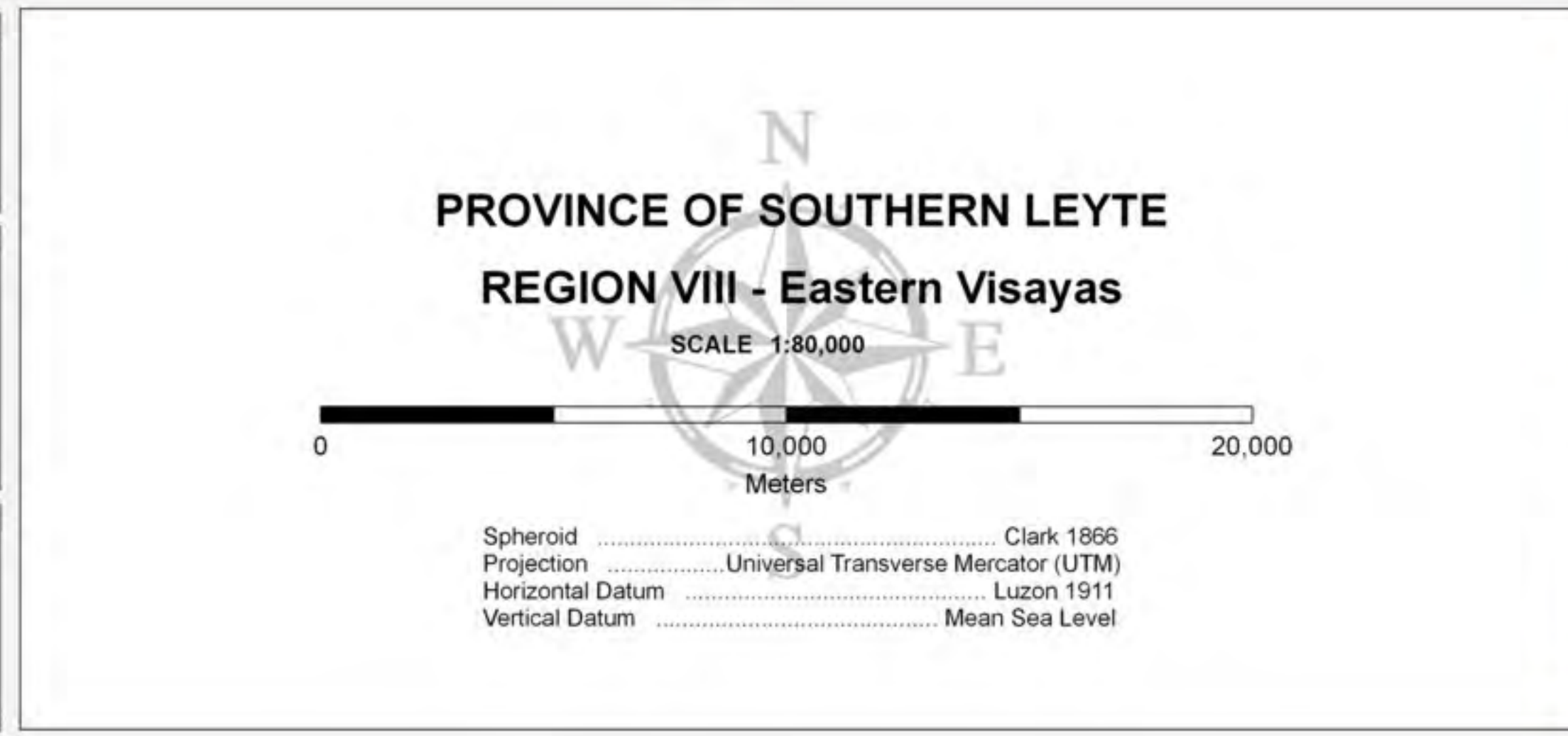
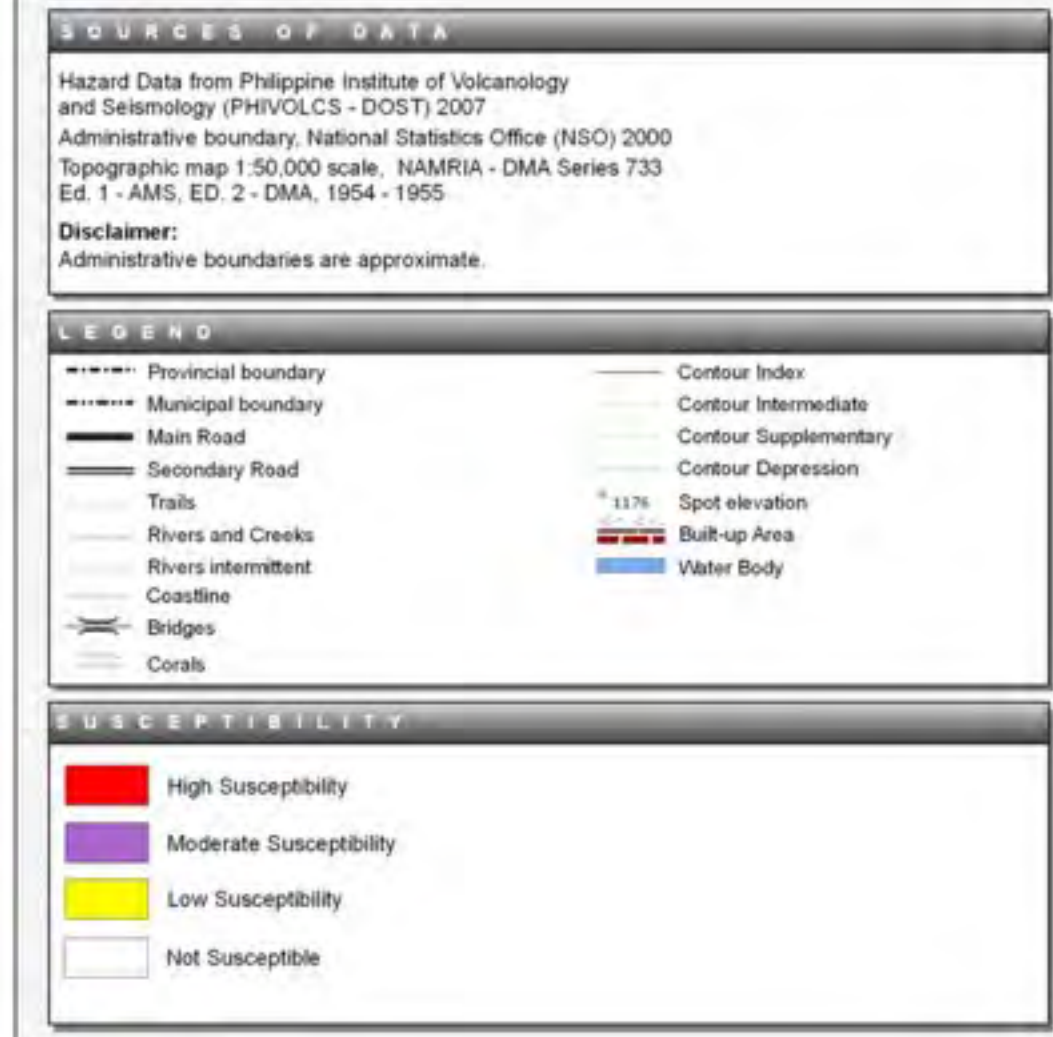
0 10,000 20,000
Meters

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

LOCATION MAP

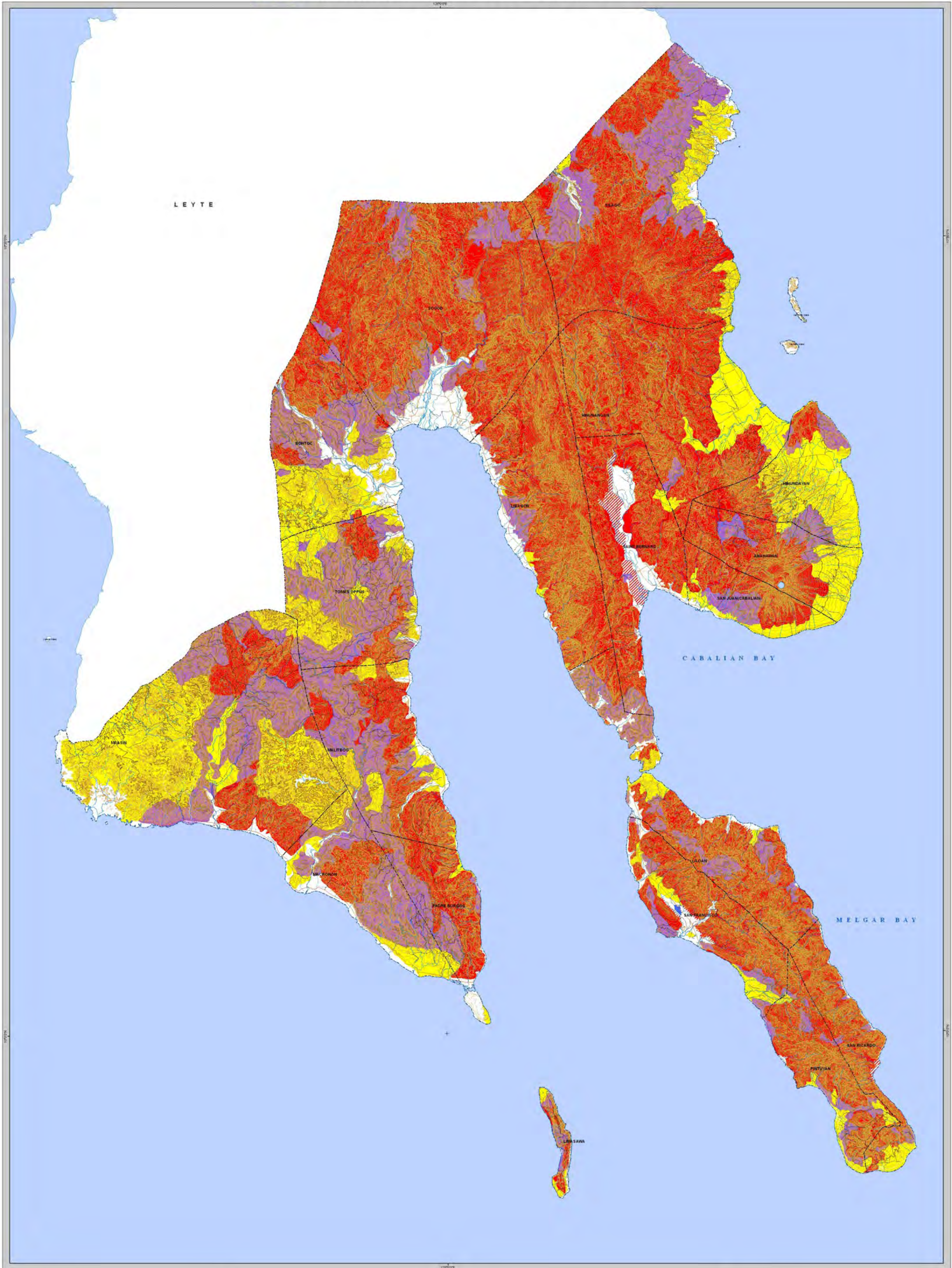
EXPLANATION

Logos





RAIN-INDUCED LANDSLIDE HAZARD MAP



SOURCES OF DATA

Hazard Data, DENR, Mines and Geosciences Bureau (MGB - JICA) 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.

LEGEND

- | | |
|---------------------|-----------------------|
| Provincial boundary | Contour Index |
| Municipal boundary | Contour Intermediate |
| Main Road | Contour Supplementary |
| Secondary Road | Contour Depression |
| Trails | Spot elevation |
| Rivers and Creeks | 1176 |
| Rivers intermittent | Built-up Area |
| Coastline | Water Body |
| Bridges | |
| Coral | |

SUSCEPTIBILITY

- | |
|---|
| High Susceptibility |
| Moderate Susceptibility |
| Low Susceptibility |
| Not Susceptible |
| Possible Areas Prone to Landslides Accumulation |

PROVINCE OF SOUTHERN LEYTE REGION VIII - Eastern Visayas

SCALE 1:80,000

0 10,000 20,000
Meters

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

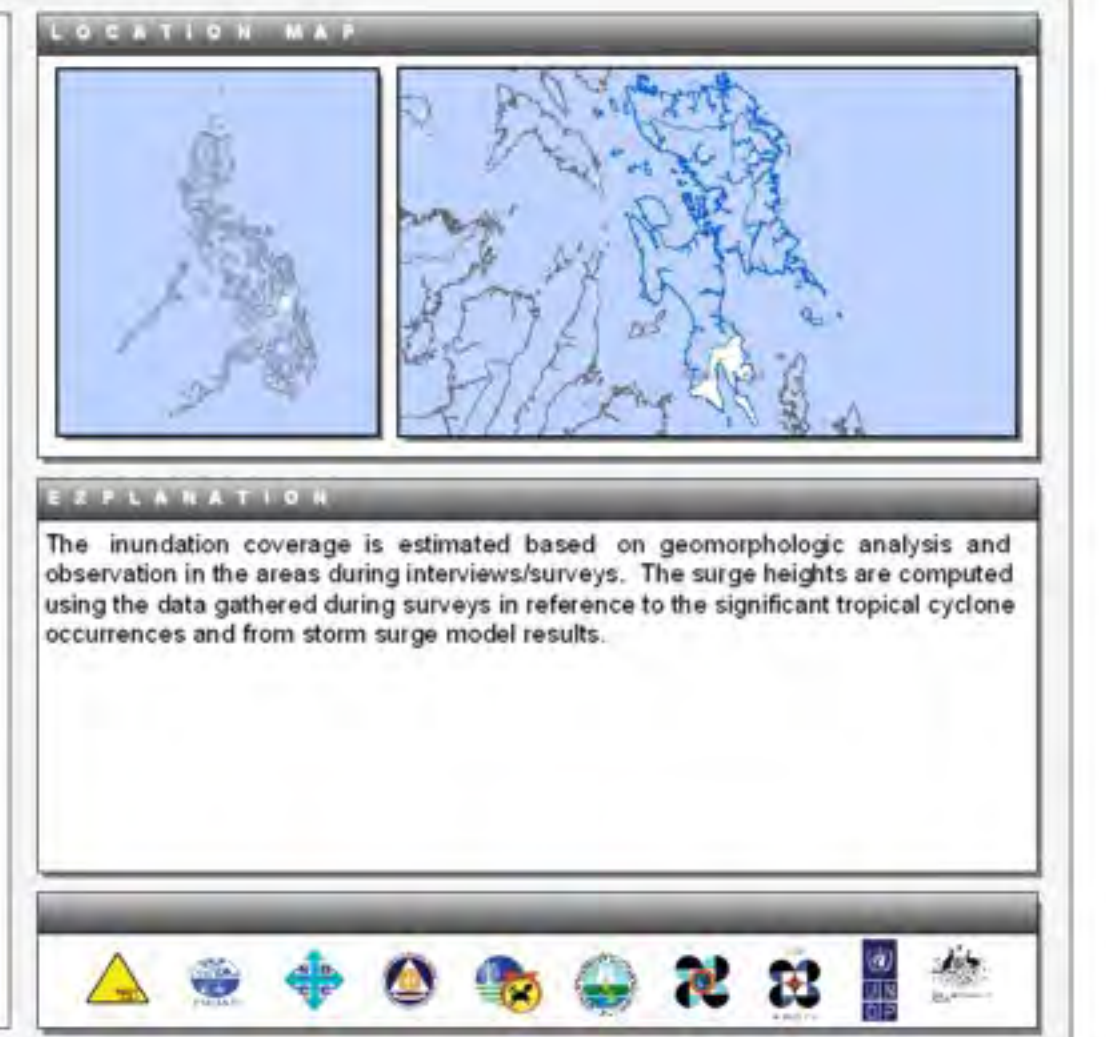
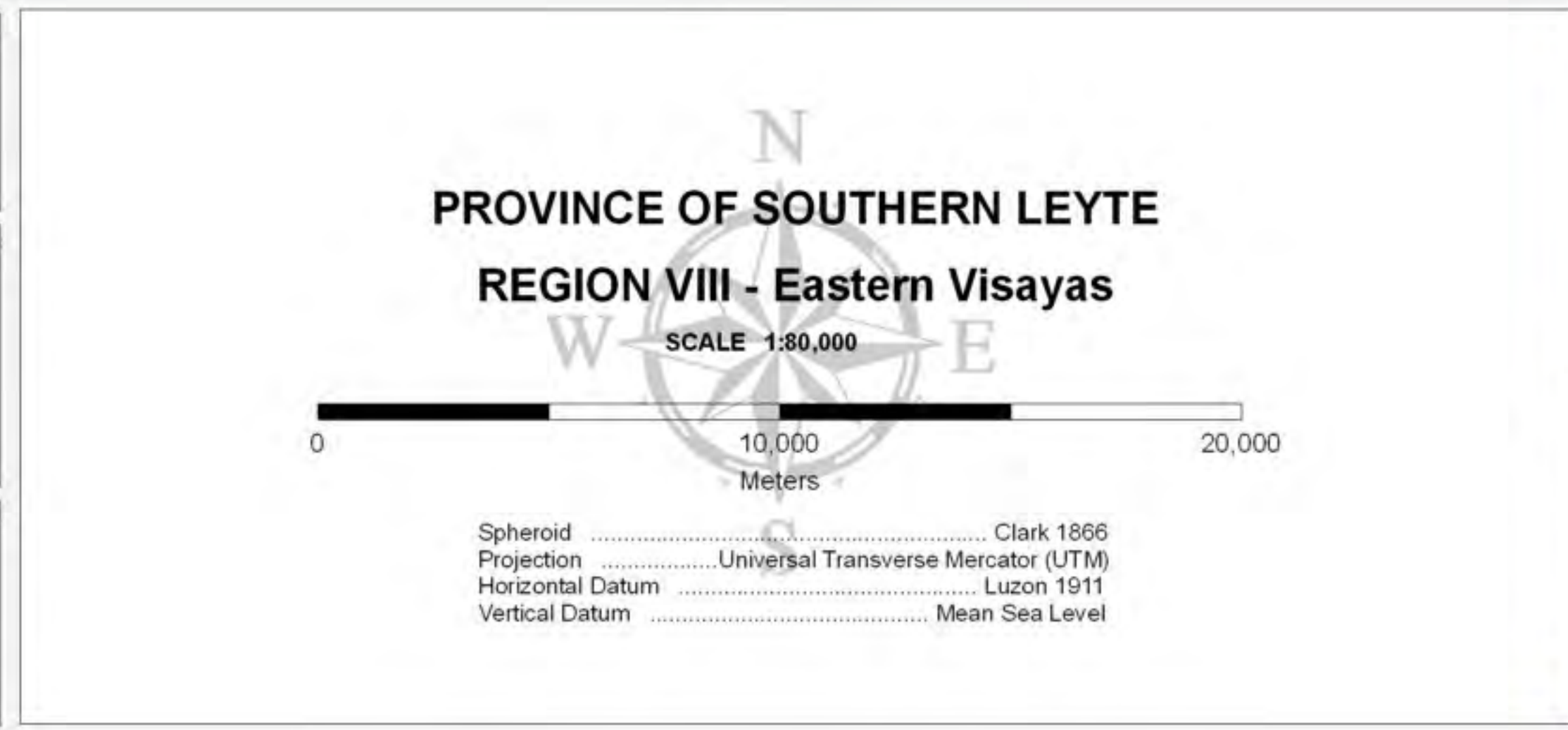
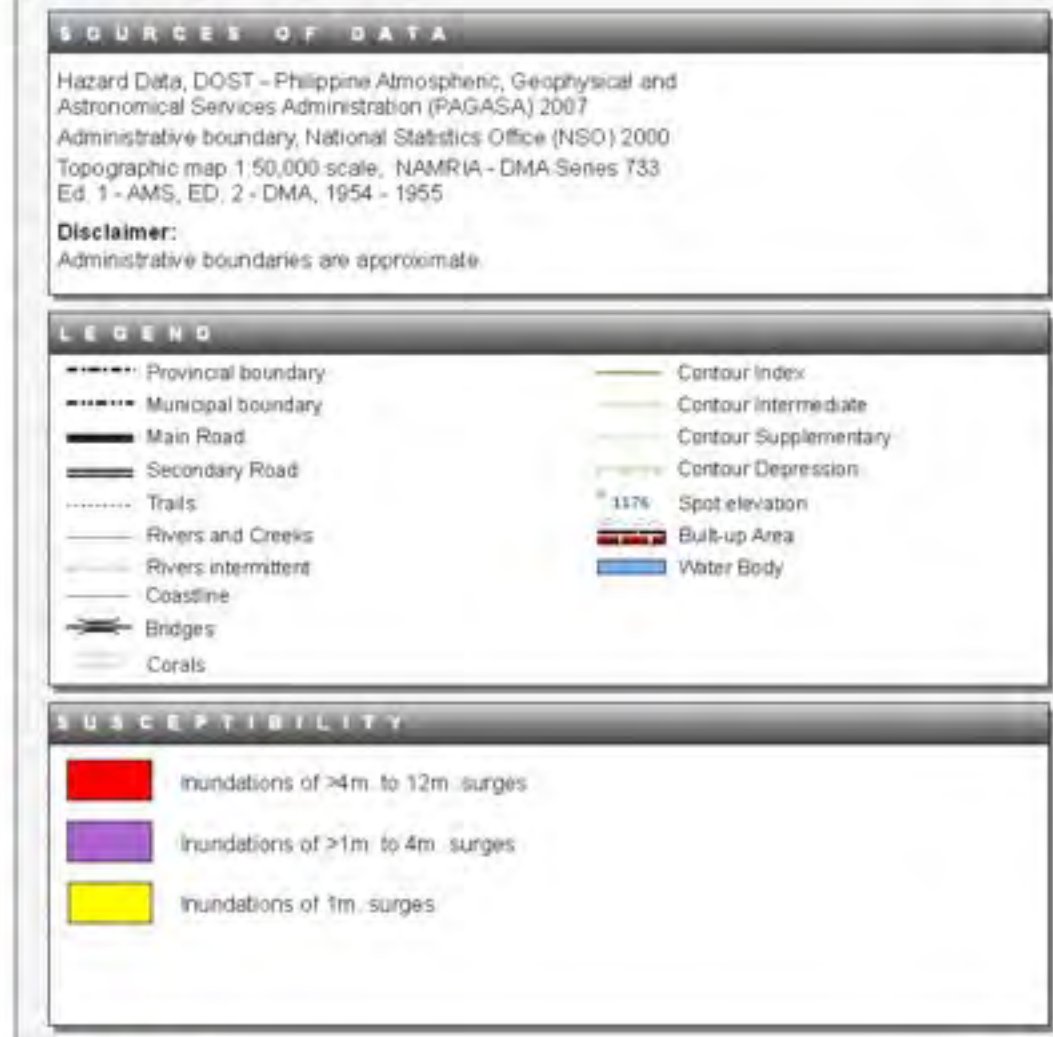
LOCATION MAP



EXPLANATION

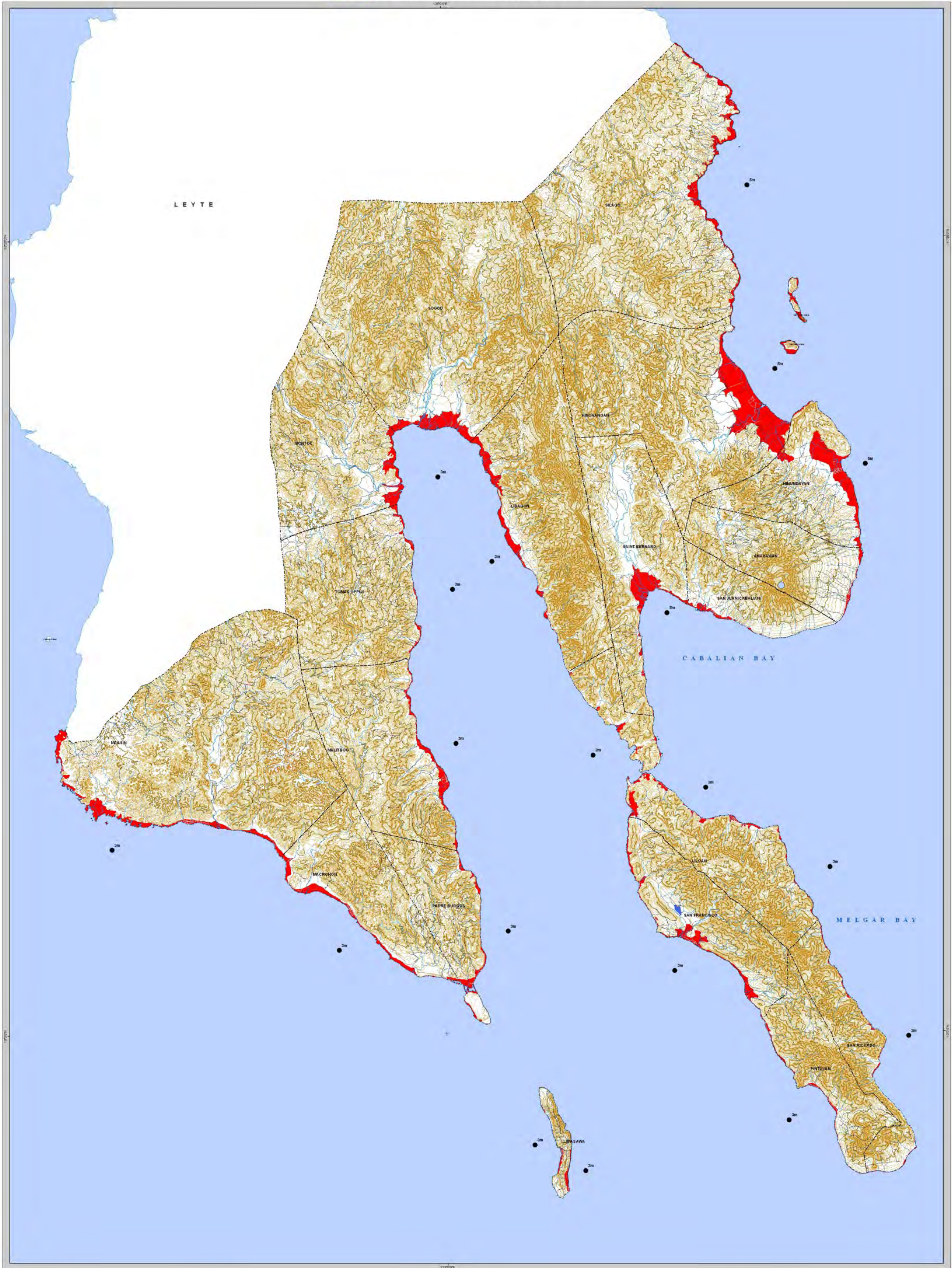
1. Areas with low to gentle slopes and lacking tension cracks have low landslide susceptibility rating.
2. Areas with moderate landslides susceptibility rating have inactive/old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes.
3. Areas with high landslides susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainage that are prone to landslides damming are also highly susceptible to landslides.
4. The possible landslides debris accumulation zones are the area where landslides debris could accumulate.







TSUNAMI HAZARD 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

LEGEND

- | | |
|---------------------|-----------------------|
| Provincial boundary | Contour Index |
| Municipal boundary | Contour Intermediate |
| Main Road | Contour Supplementary |
| Secondary Road | Contour Depression |
| Trails | Spot elevation |
| Rivers and Creeks | Bulk-up Area |
| Rivers intermittent | Water Body |
| Coastline | |
| Bridges | |
| Coral | |

SUSCEPTIBILITY

- | |
|-------------------------|
| Tsunami Inundation Area |
| Wave height |

PROVINCE OF SOUTHERN LEYTE
REGION VIII - Eastern Visayas

SCALE 1:80,000

0 10,000 20,000
Meters

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

LOCATION MAP



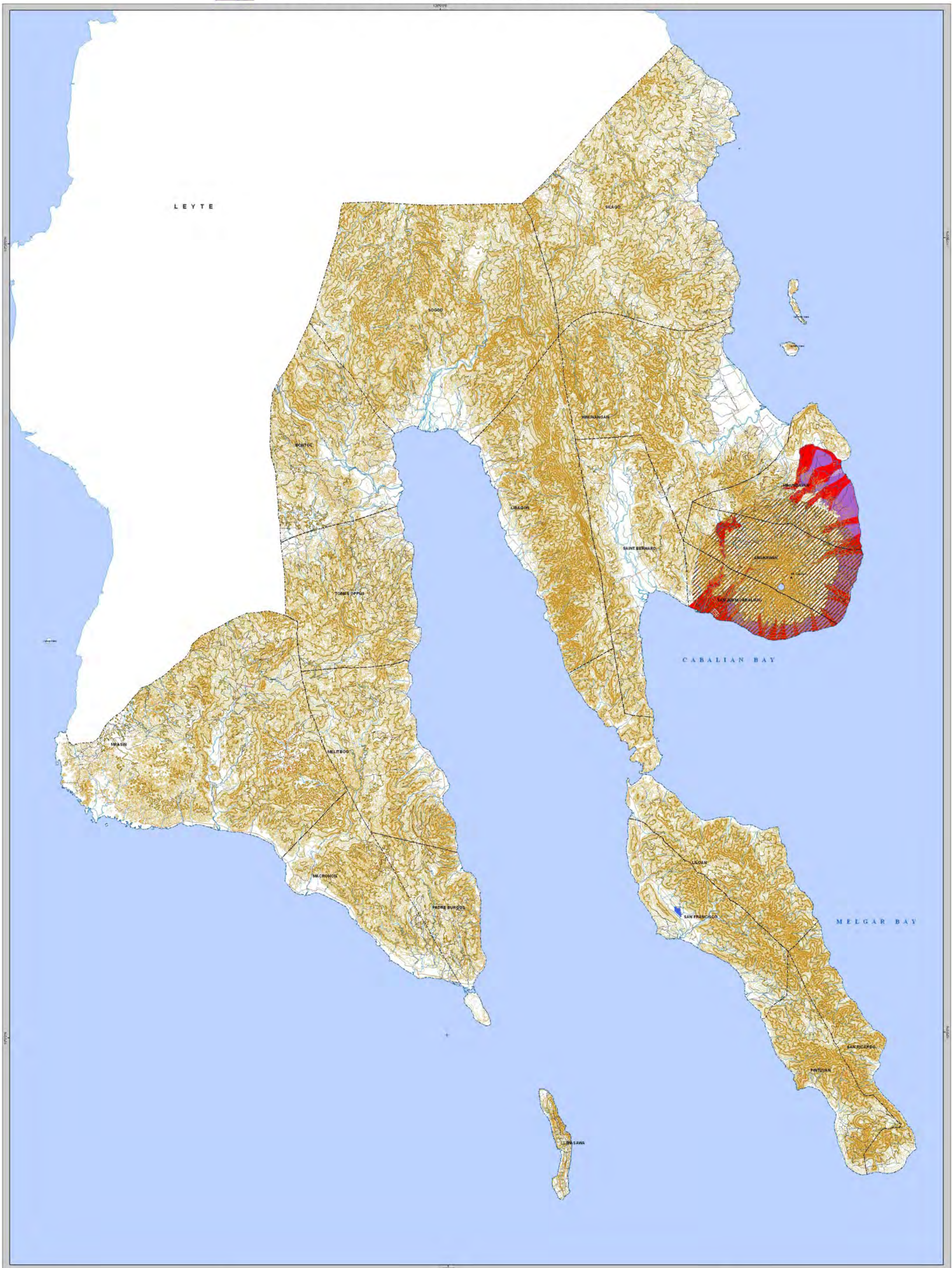
EXPLANATION

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.





VOLCANIC HAZARD MAP OF CABALIAN VOLCANO



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.

LEGEND

- | | |
|---------------------|-----------------------|
| Provincial boundary | Contour Index |
| Municipal boundary | Contour Intermediate |
| Main Road | Contour Supplementary |
| Secondary Road | Contour Depression |
| Trails | Spot elevation |
| Rivers and Creeks | Bulk-up Area |
| Rivers intermittent | Water Body |
| Coastline | Volcano |
| Bridges | |
| Coral | |

SUSCEPTIBILITY

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

PROVINCE OF SOUTHERN LEYTE REGION VIII - Eastern Visayas

SCALE 1:80,000

0 10,000 20,000
Meters

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

LOCATION MAP



EXPLANATION

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



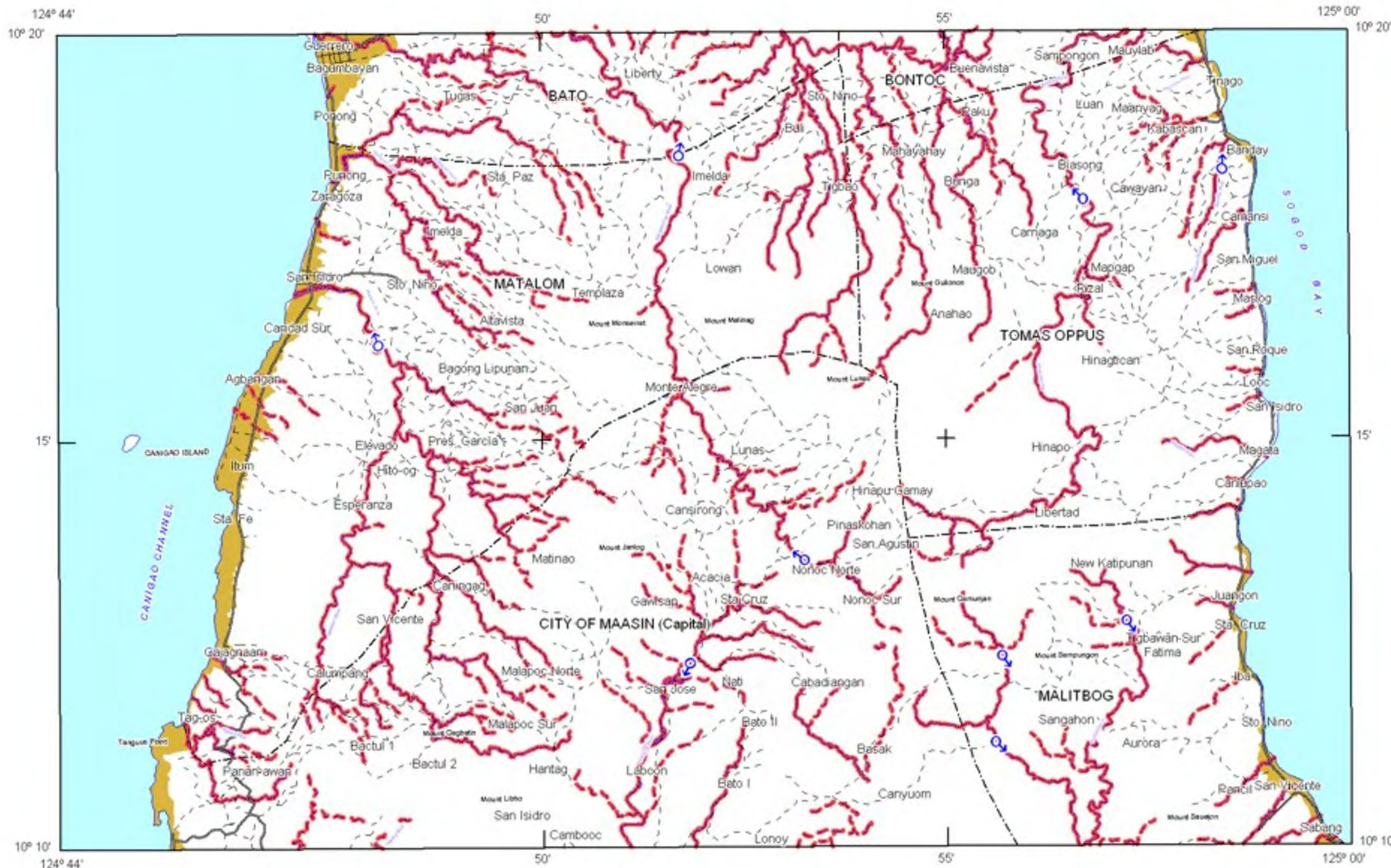
FLOOD SUSCEPTIBILITY MAP OF BATO QUADRANGLE LEYTE, PHILIPPINES



MAPPING SCALE 1:50,000



TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 3950 I
"Bato Quadrangle"

INDEX MAP

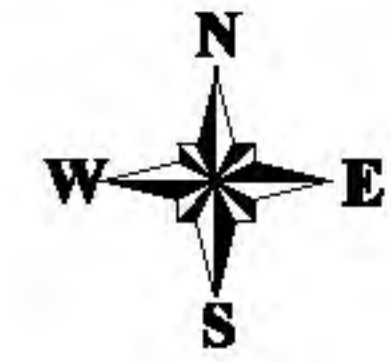


DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

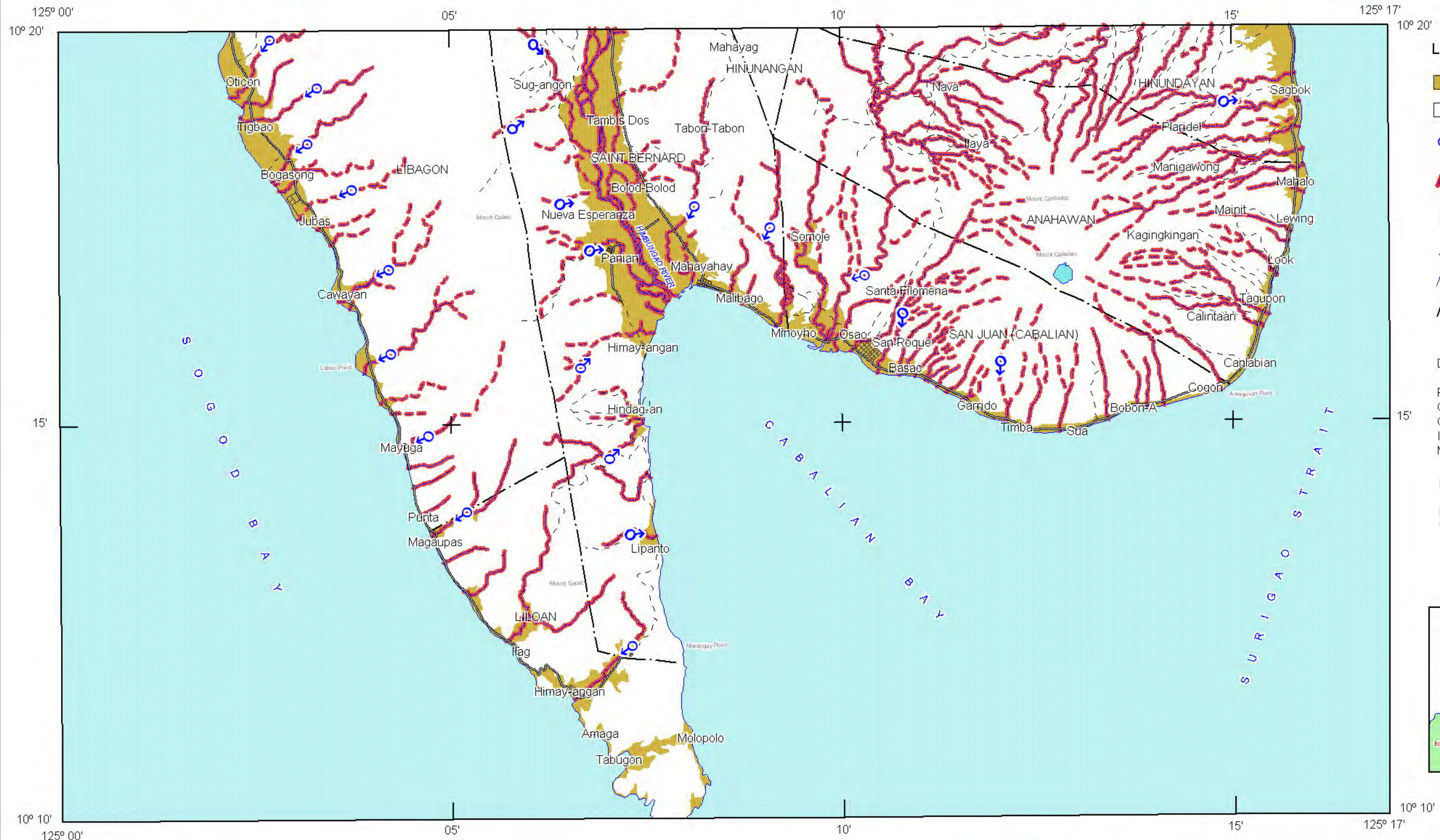
FLOOD SUSCEPTIBILITY MAP OF CABALIAN QUADRANGLE SOUTHERN LEYTE, PHILIPPINES



MAPPING SCALE 1:50,000

0 2.5 5
kilometers

TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 4050 IV
"Cabalian Quadrangle"

INDEX MAP

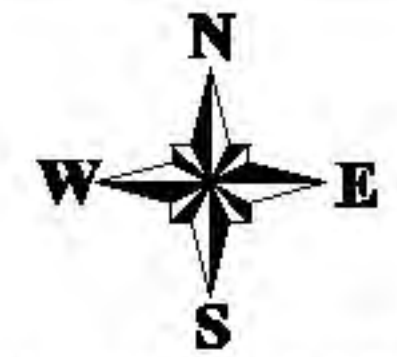


DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

FLOOD SUSCEPTIBILITY MAP OF HINGATUNGAN QUADRANGLE SOUTHERN LEYTE, PHILIPPINES

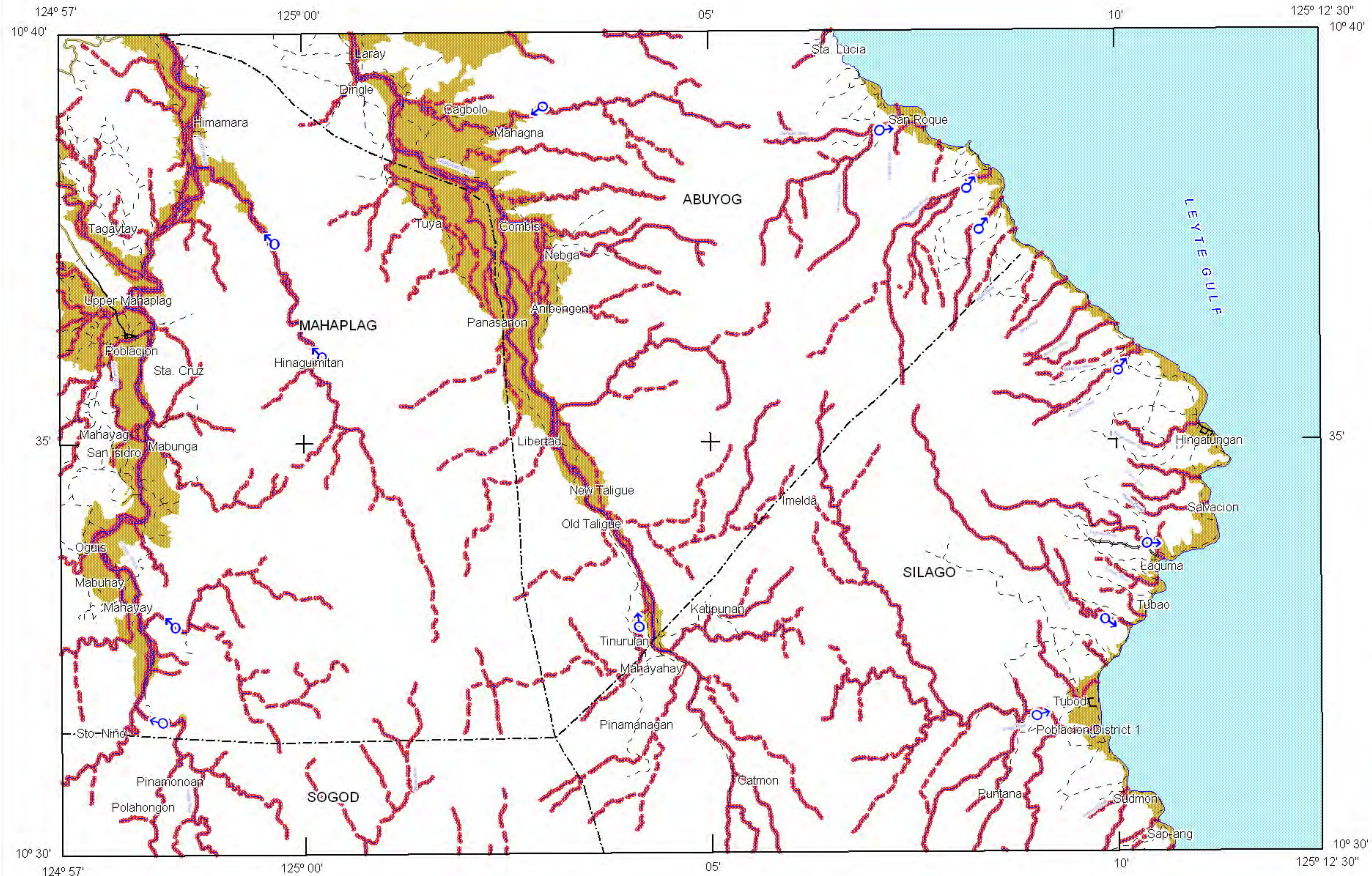


MAPPING SCALE 1:50,000

0 2.5 5

kilometers

TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- ♂

 Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 4051 IV
"Hingatungan Quadrangle"

INDEX MAP

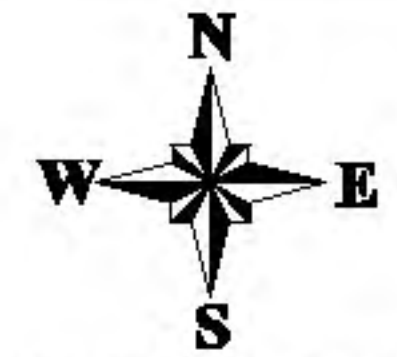


DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

FLOOD SUSCEPTIBILITY MAP OF HINUNDAYAN QUADRANGLE SOUTHERN LEYTE, PHILIPPINES

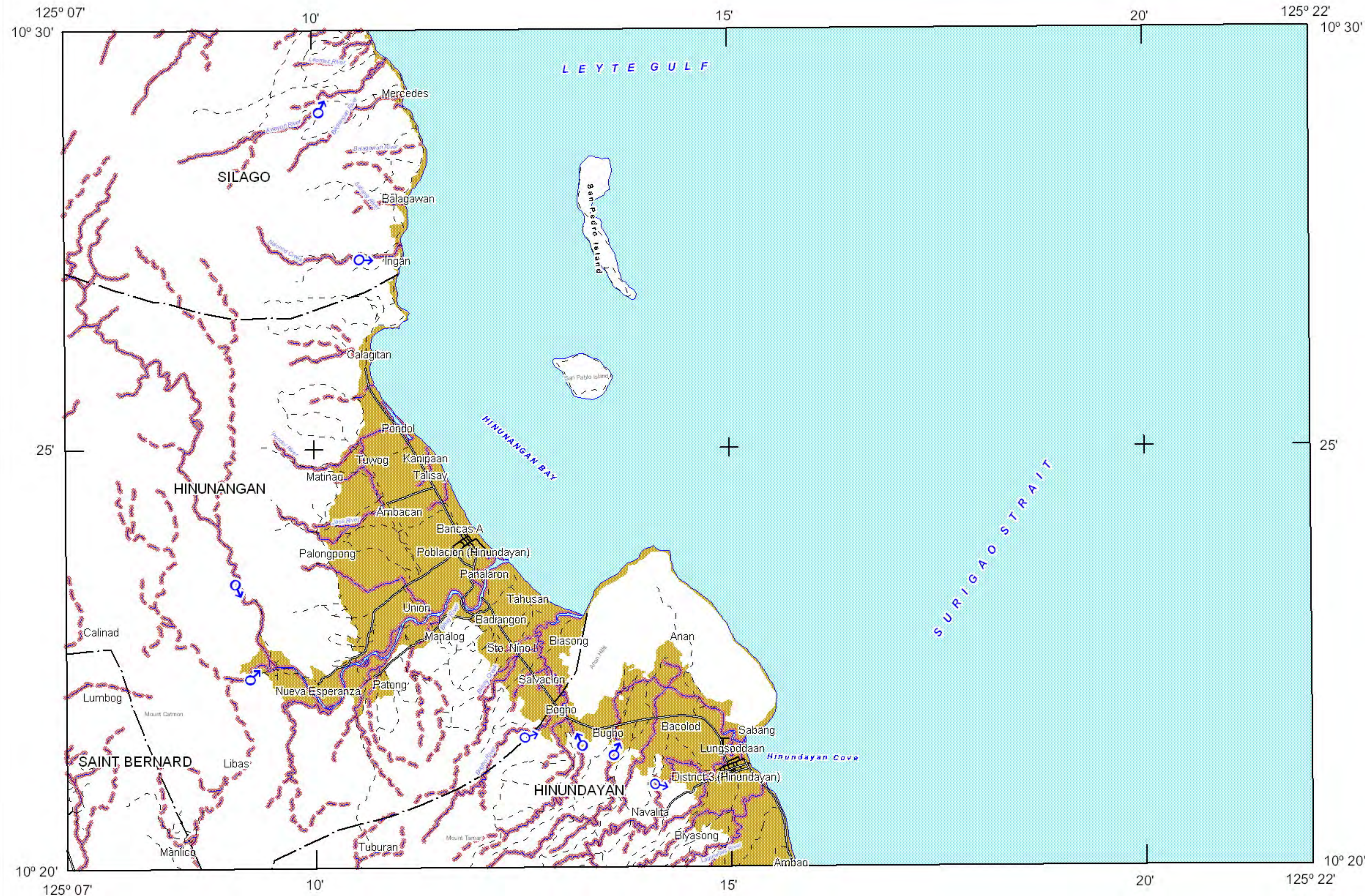


MAPPING SCALE 1:50,000

0 2.5 5

kilometers

TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 4051 III
"Hinundayan Quadrangle"

INDEX MAP

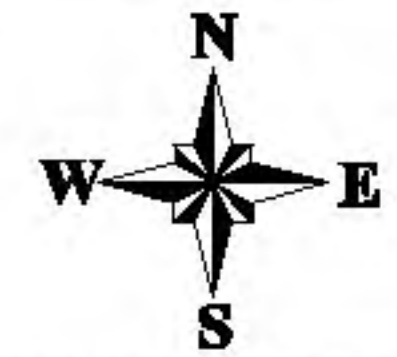


DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

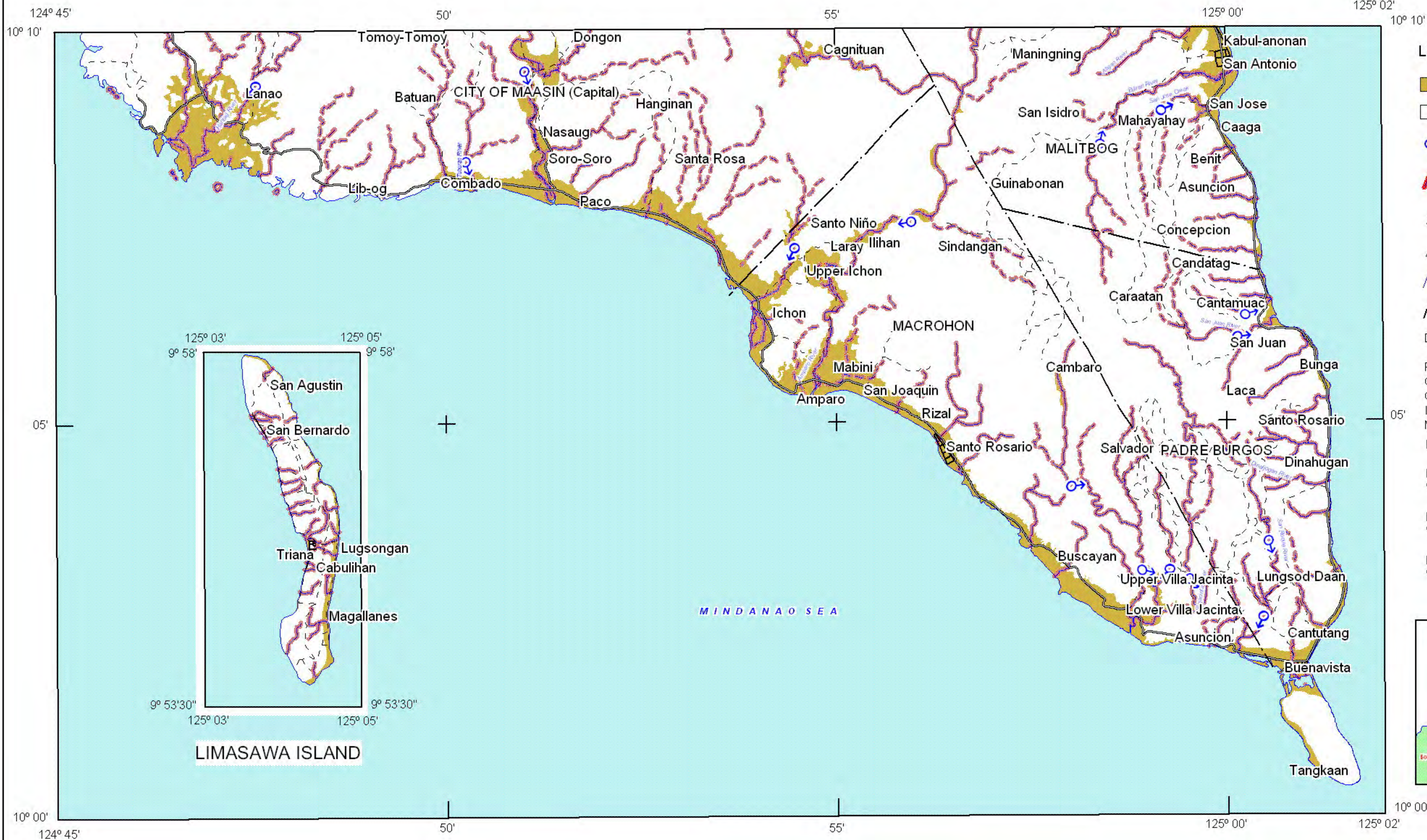
FLOOD SUSCEPTIBILITY MAP OF MAASIN QUADRANGLE SOUTHERN LEYTE, PHILIPPINES



MAPPING SCALE 1:50,000

0 2.5 5
kilometers

TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 3950 II
"Maasin Quadrangle"

NAMRIA Topo Sheet No. 4050 III
"San Francisco Quadrangle"

NAMRIA Topo Sheet No. 4049 IV
"Pintuyan Quadrangle"

INDEX MAP



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

FLOOD SUSCEPTIBILITY MAP OF SOGOD QUADRANGLE SOUTHERN LEYTE, PHILIPPINES

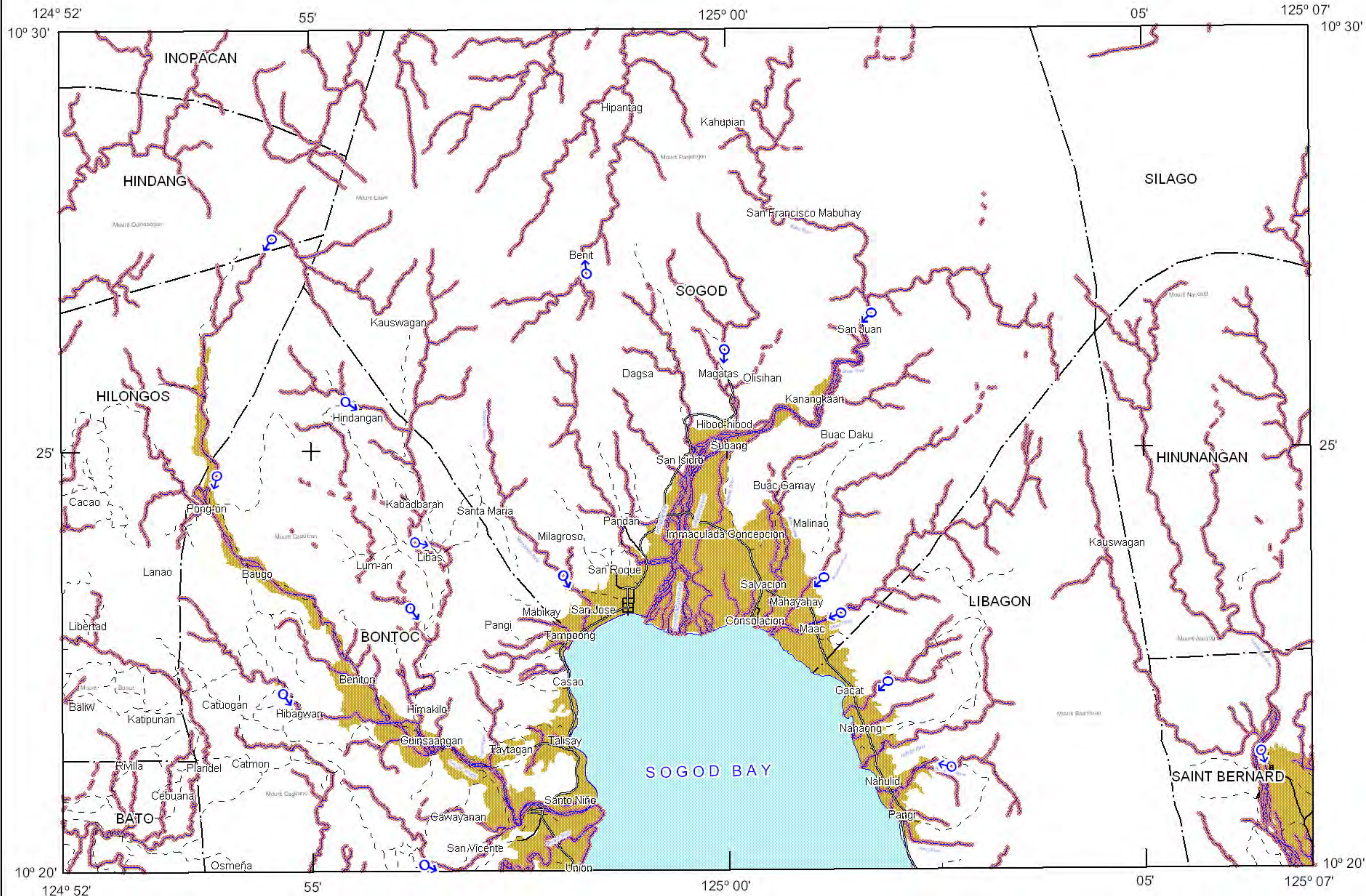


MAPPING SCALE 1:50,000

0 2.5 5

kilometers

TRANSVERSE MERCATOR PROJECTION



LEGEND :

- Flood Prone Areas
- Not Prone to Flooding
- Potential Flashflood Exit Points
- Prone to riverbank erosion
- Main Road
- Trail
- River
- Municipal Boundary

Data Sources:

Rapid Geohazard Assessment Team
Geological Survey Research Section
Geological Database and
Information Systems Section
MGB RO VIII

Base Maps :

NAMRIA Topo Sheet No. 3951 II
"Sogod Quadrangle"

INDEX MAP



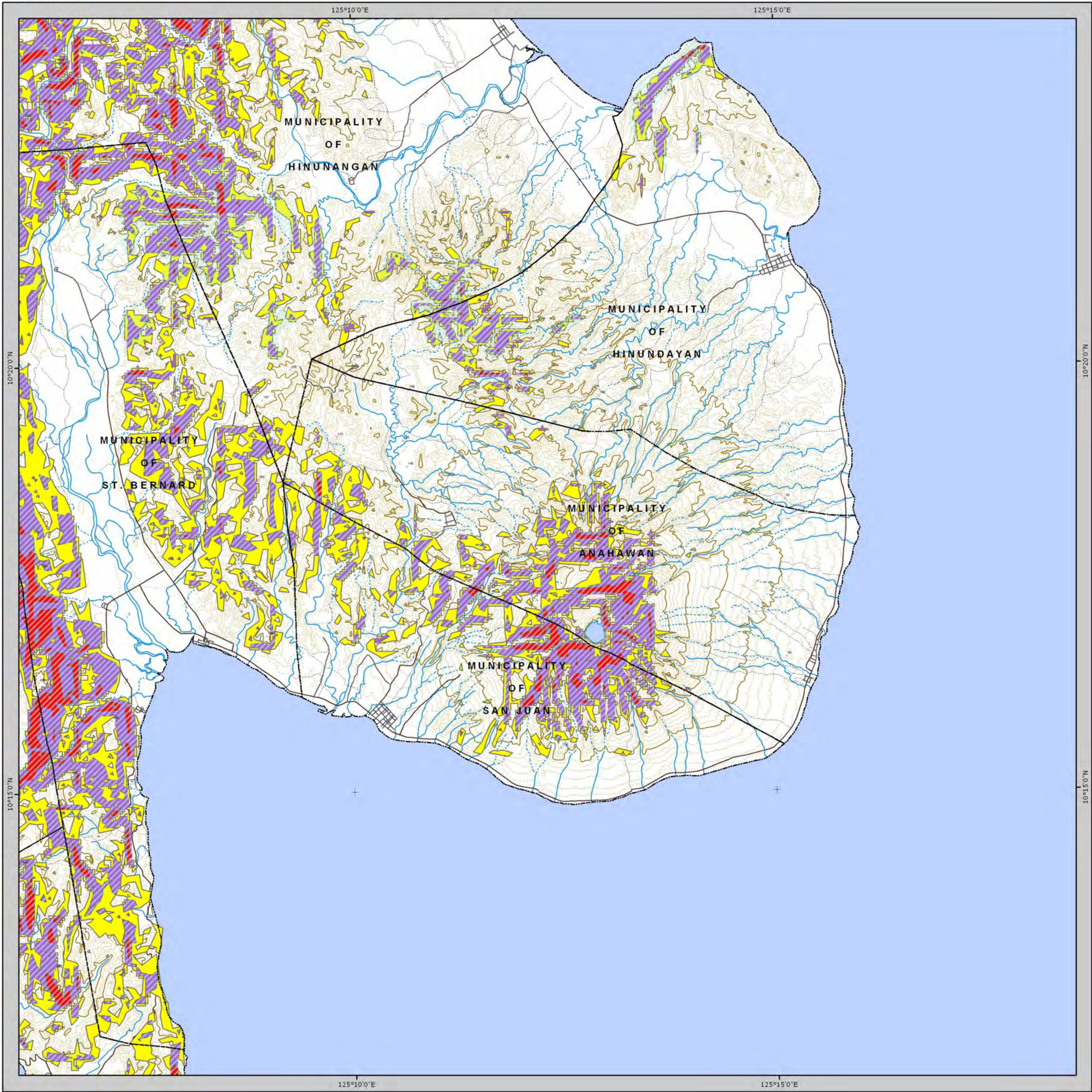
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



Japan International Cooperation Agency
Technical Cooperation

EARTHQUAKE-INDUCED LANDSLIDE 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

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

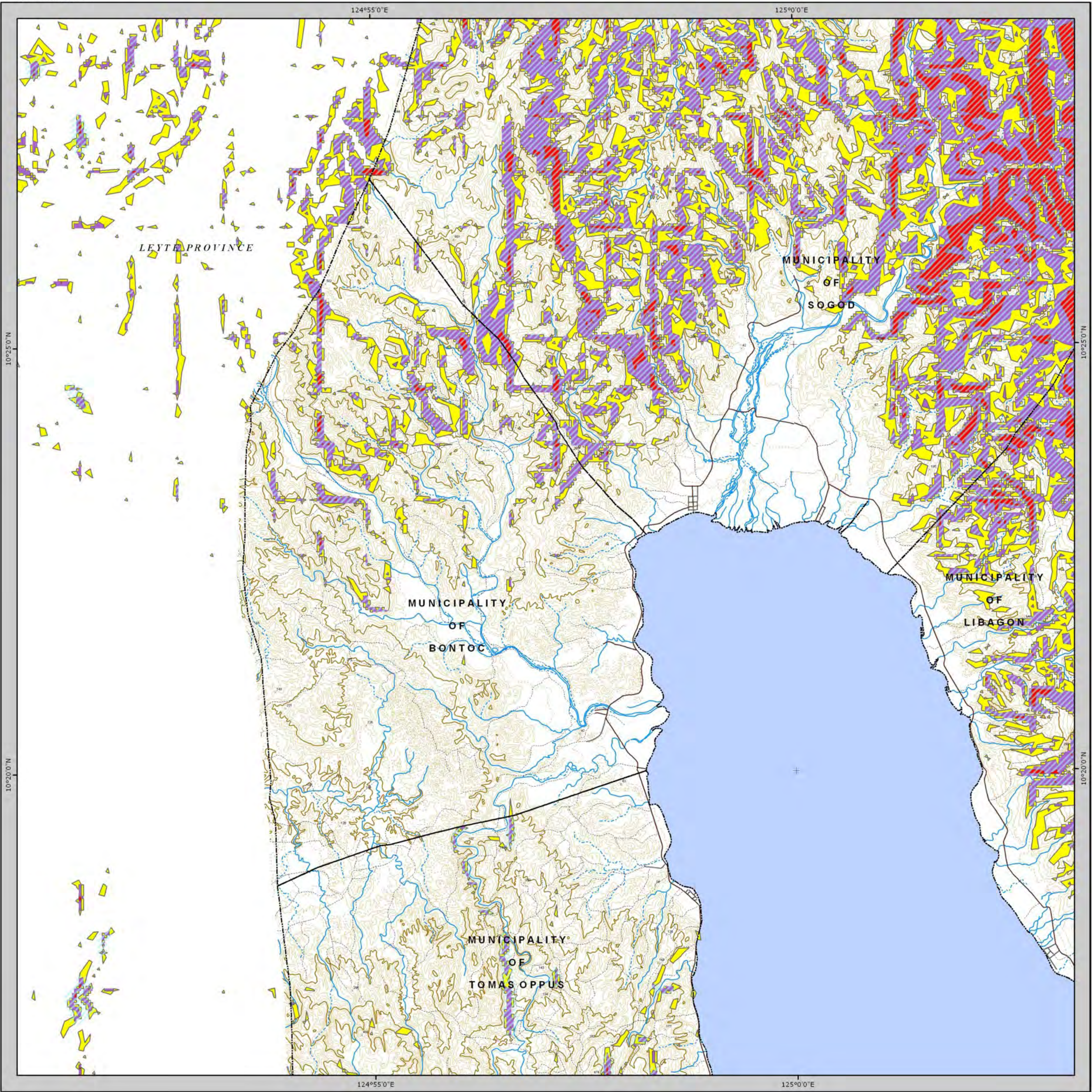
Disclaimer:

Administrative boundaries are approximate.



EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF BONTOC
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

- 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

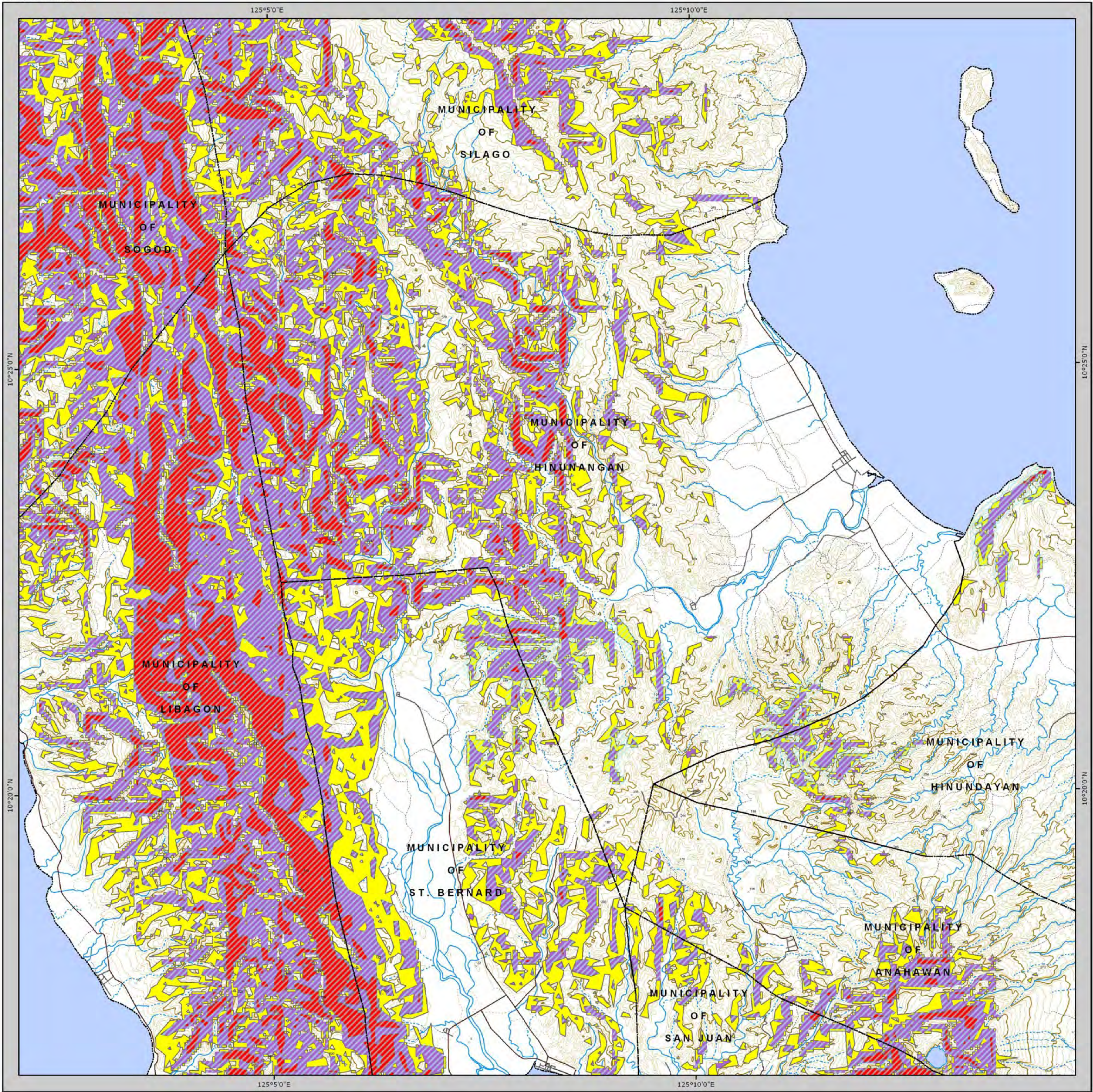
Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
Administrative boundaries are approximate.



EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



N

W

E

S

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

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

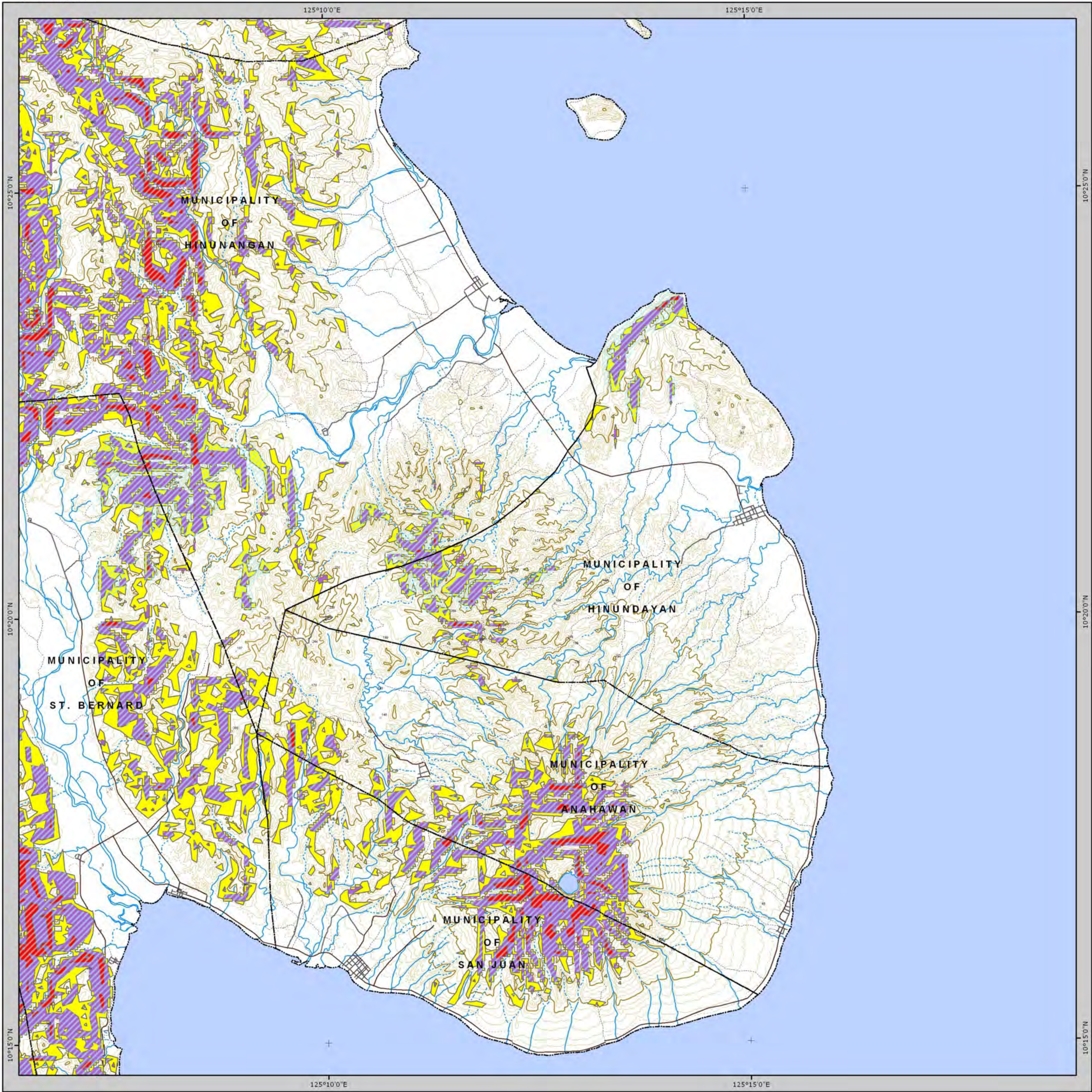
Disclaimer:

Administrative boundaries are approximate.



EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



N

W

E

S

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

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

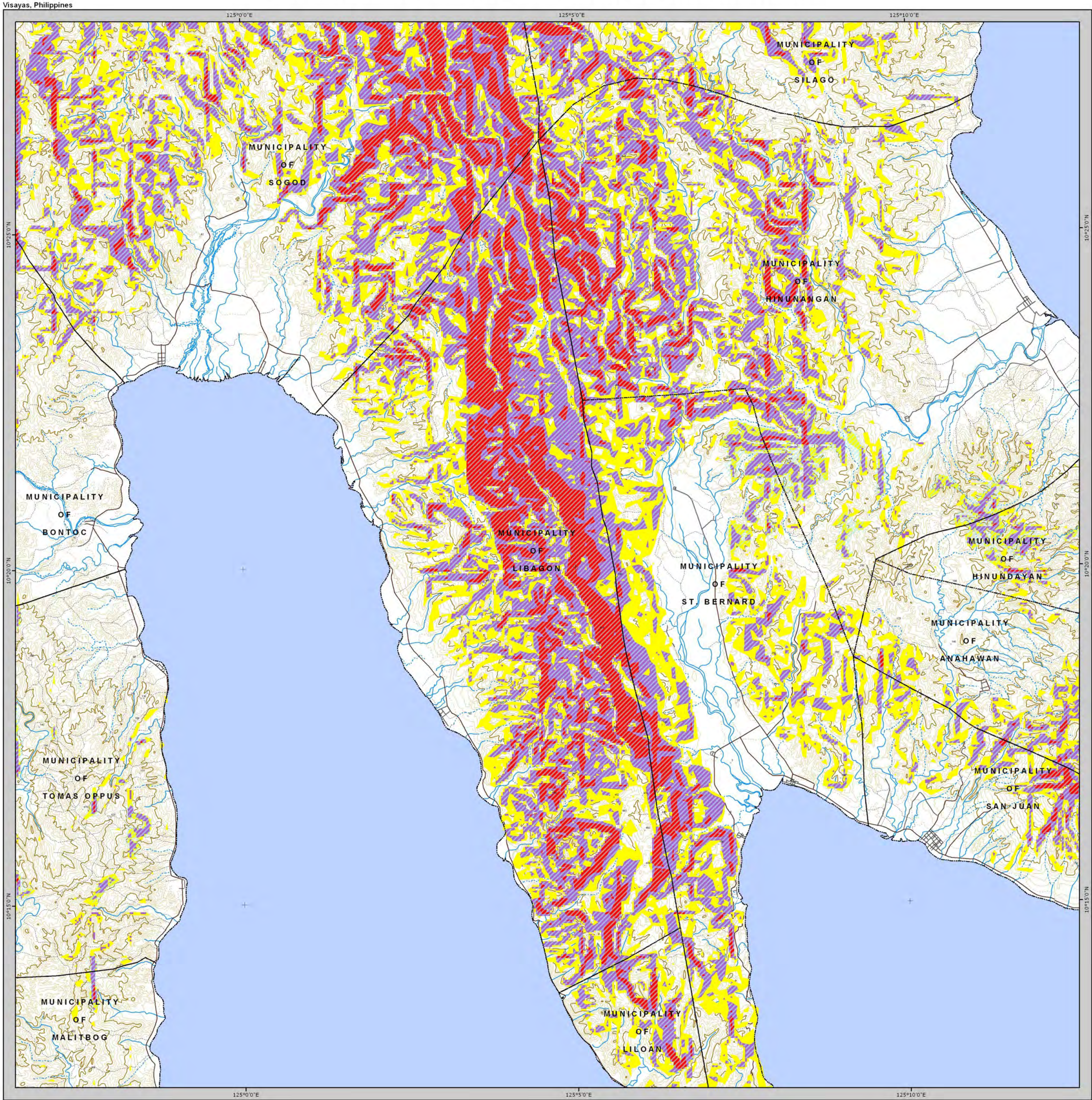
Administrative boundary, National Statistics Office (NSO) 2000

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

Disclaimer:
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP



MUNICIPALITY OF LIBAGON

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

- 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

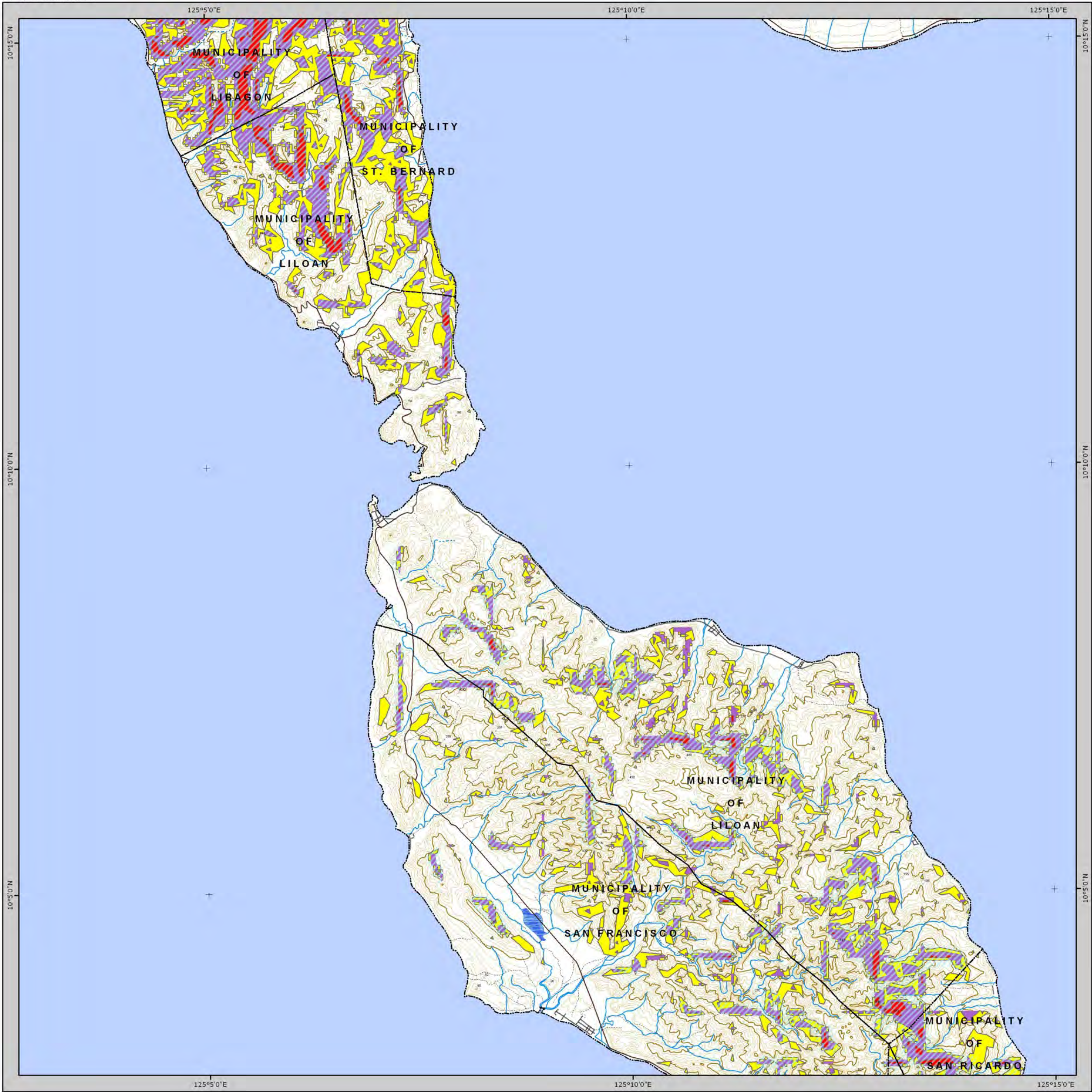
Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733
Ed. 1 - AMS, ED. 2 - DMA, 1954 - 1955

Disclaimer:
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

Visayas, Philippines



MUNICIPALITY OF LILOAN
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

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LOCATION MAP

SOURCES OF DATA

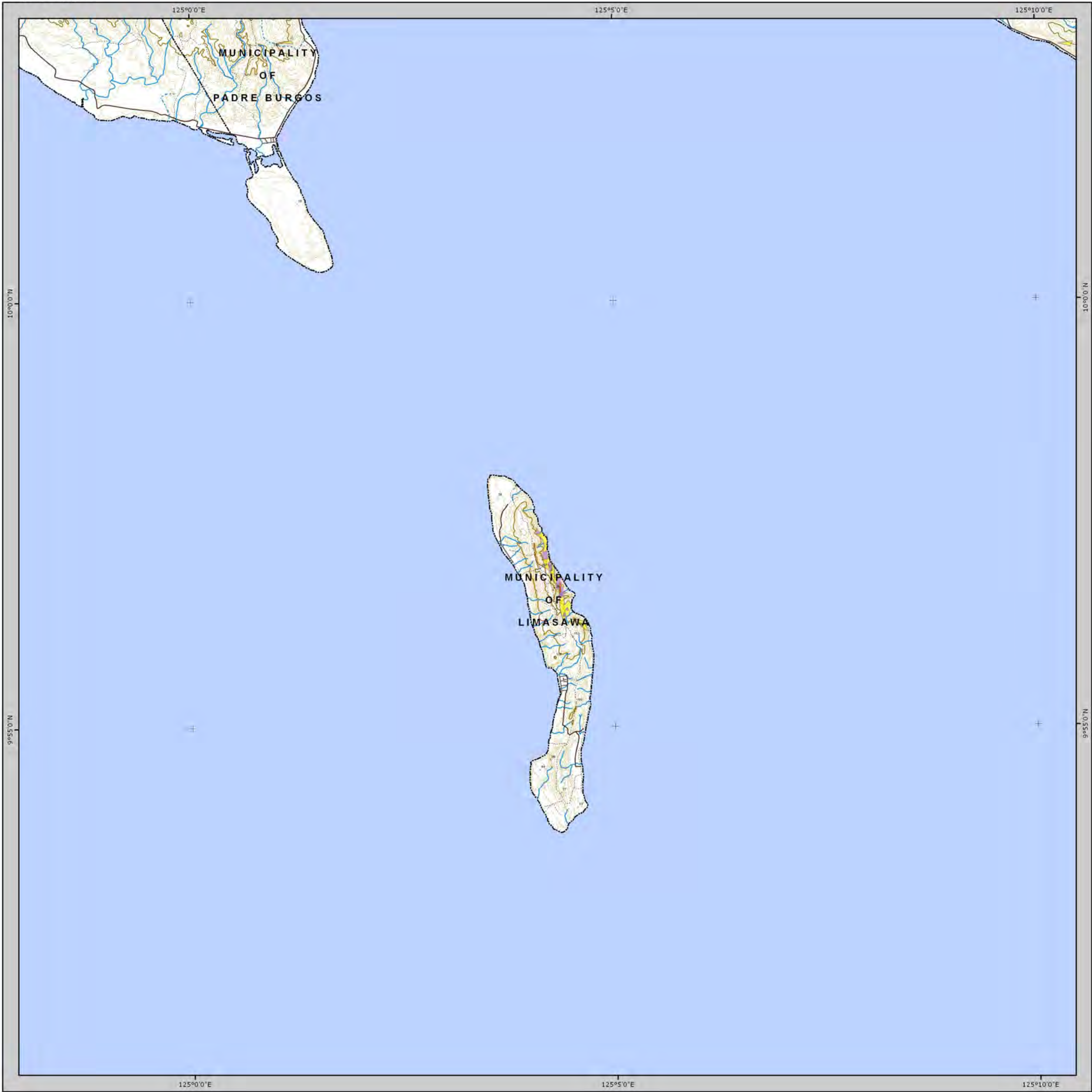
Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
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EARTHQUAKE-INDUCED LANDSLIDE HAZARD MAP

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

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Moderate Susceptibility

Low Susceptibility

Not Susceptible

Possible landslide depositional/affected zone

EXPLANATION

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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:

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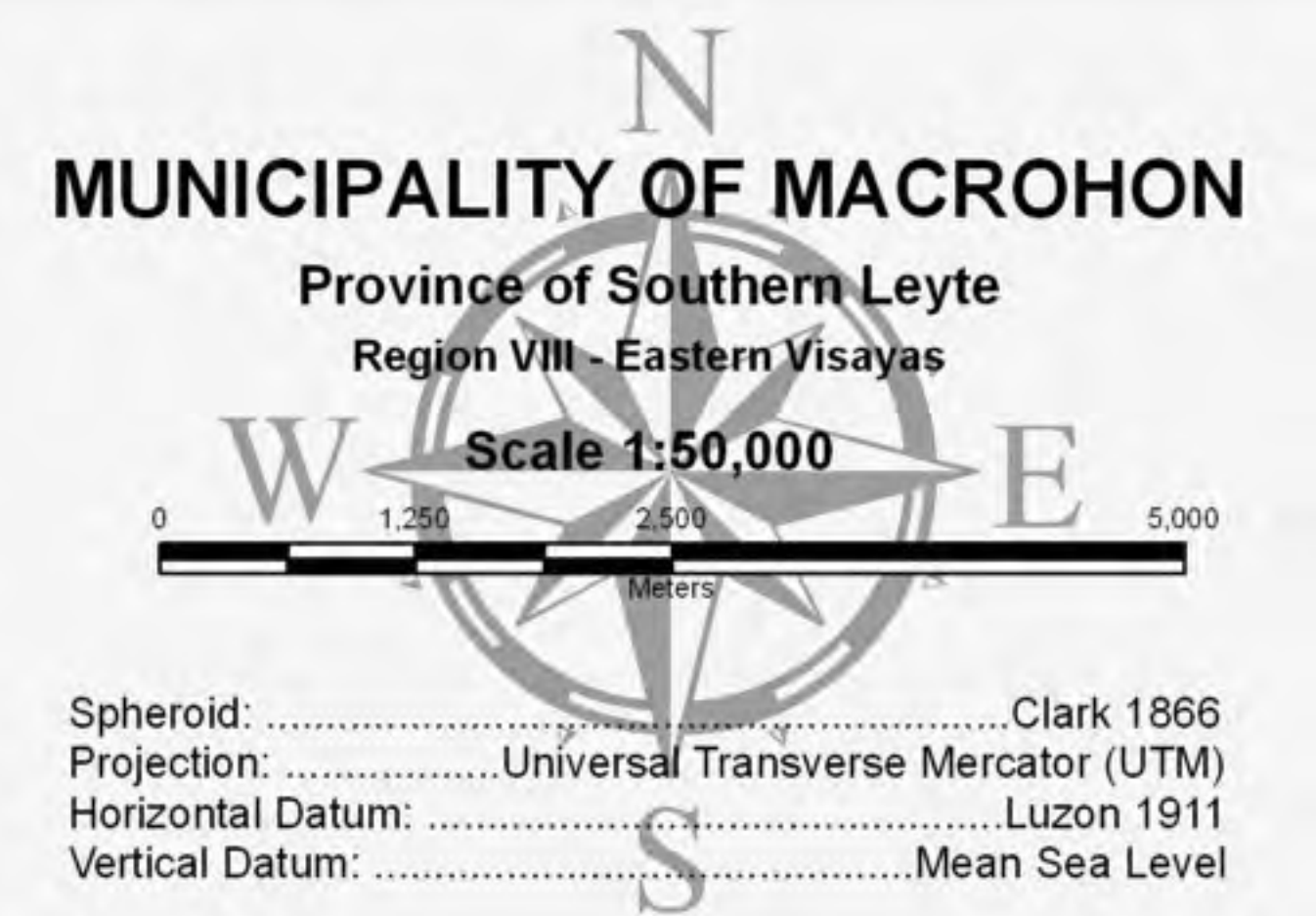
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Hazard Data from Philippine Institute of Volcanology and Seismology (PHIVOLCS - DOST) 2007
Administrative boundary, National Statistics Office (NSO) 2000
Topographic map 1:50,000 scale, NAMRIA - DMA Series 733 Ed. 1 - AMS, Ed. 2 - DMA, 1954 - 1955

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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

-  High Susceptibility
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SOURCES OF DATA

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