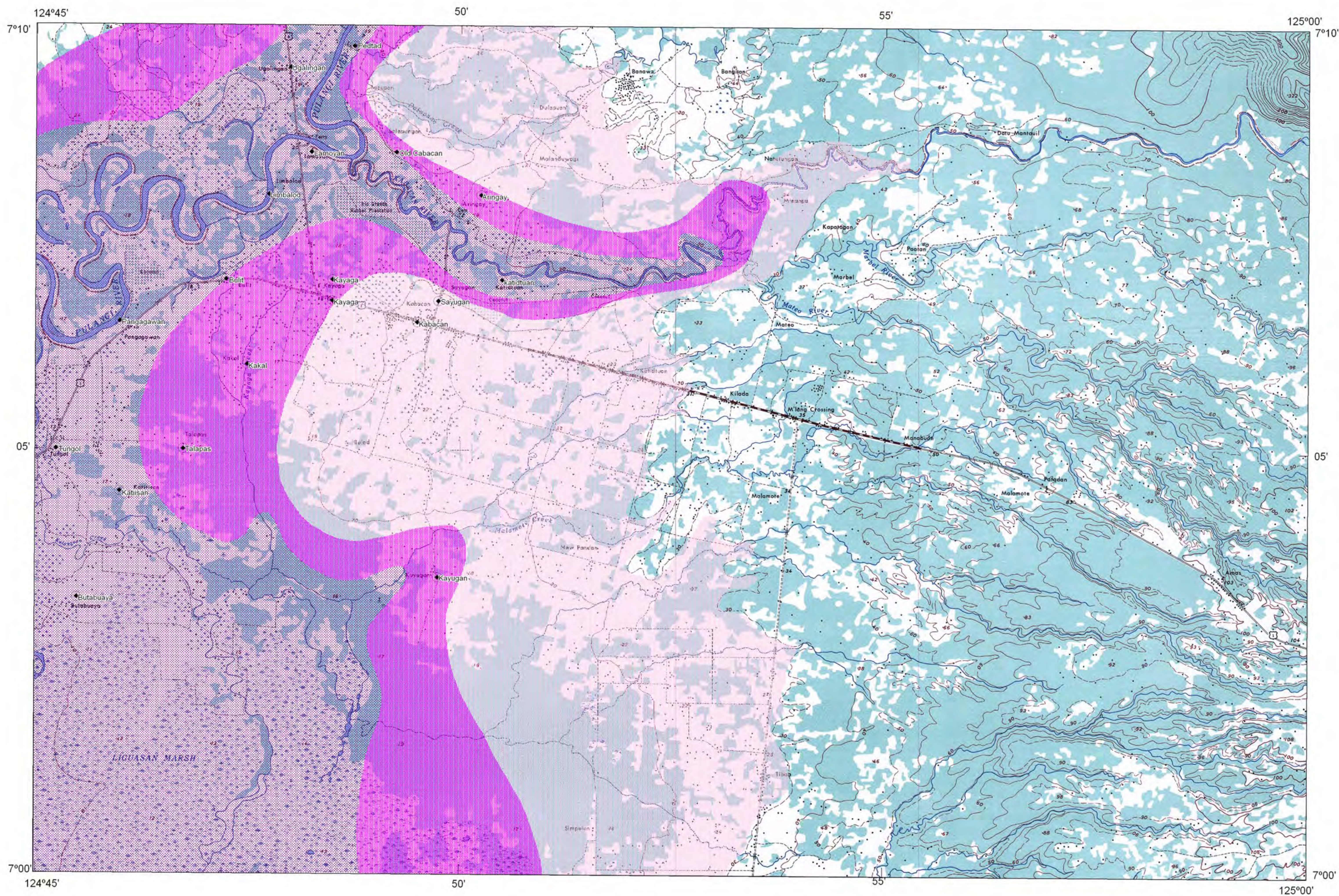
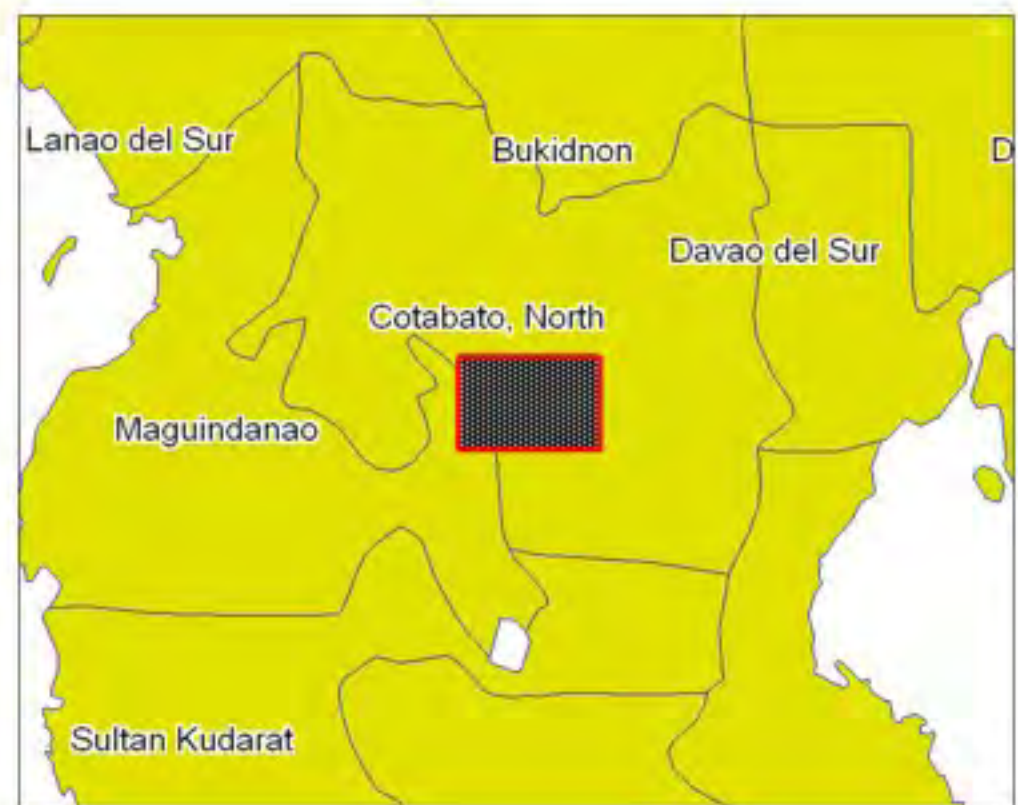


FLOOD SUSCEPTIBILITY MAP OF ARINGAY QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES

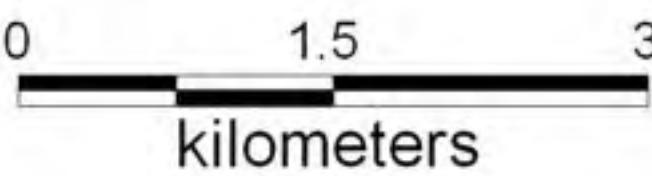


INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



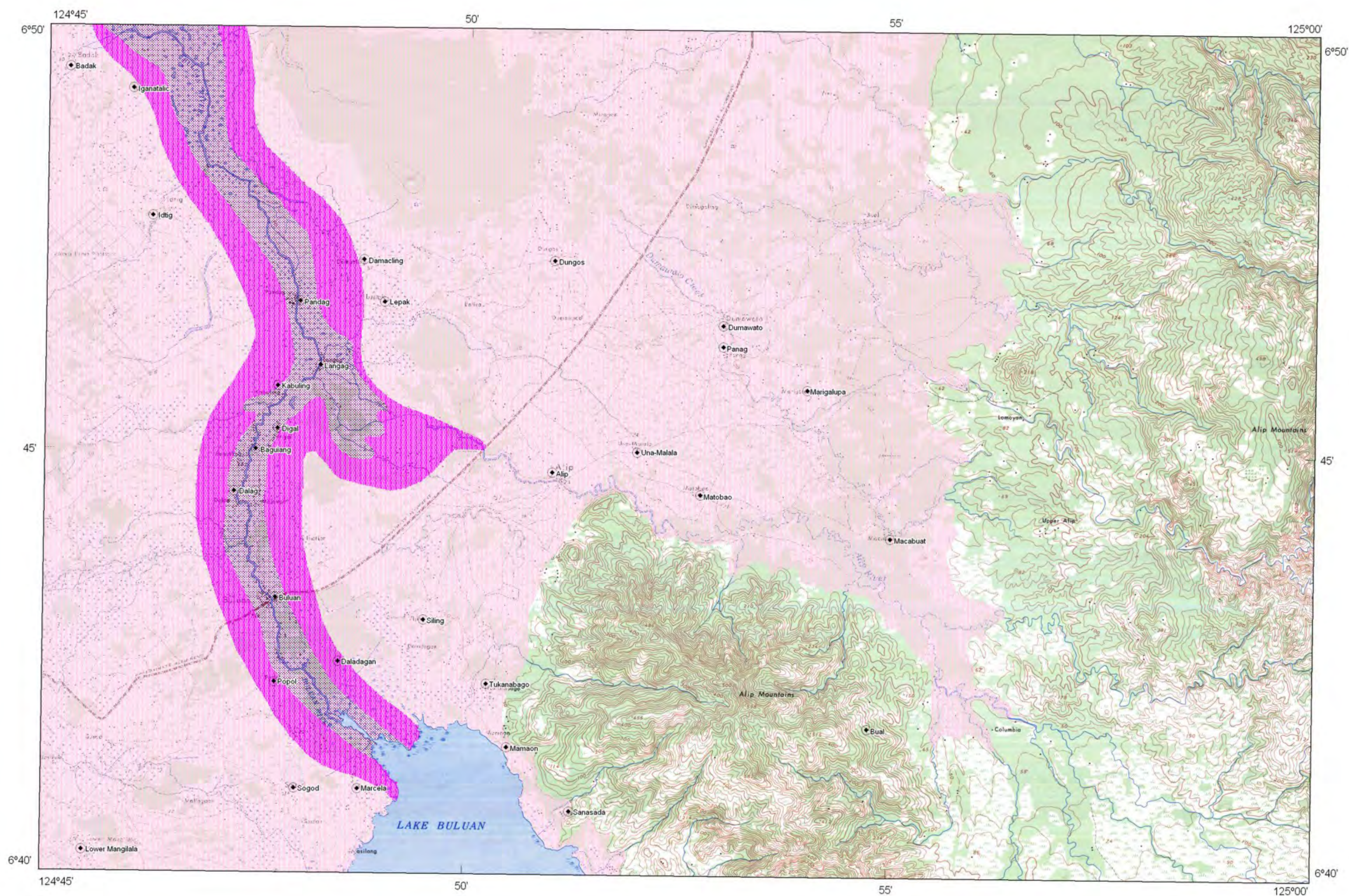
TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3941 II "Aringay Quadrangle"

FLOOD SUSCEPTIBILITY MAP OF BULUAN QUADRANGLE MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains for several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

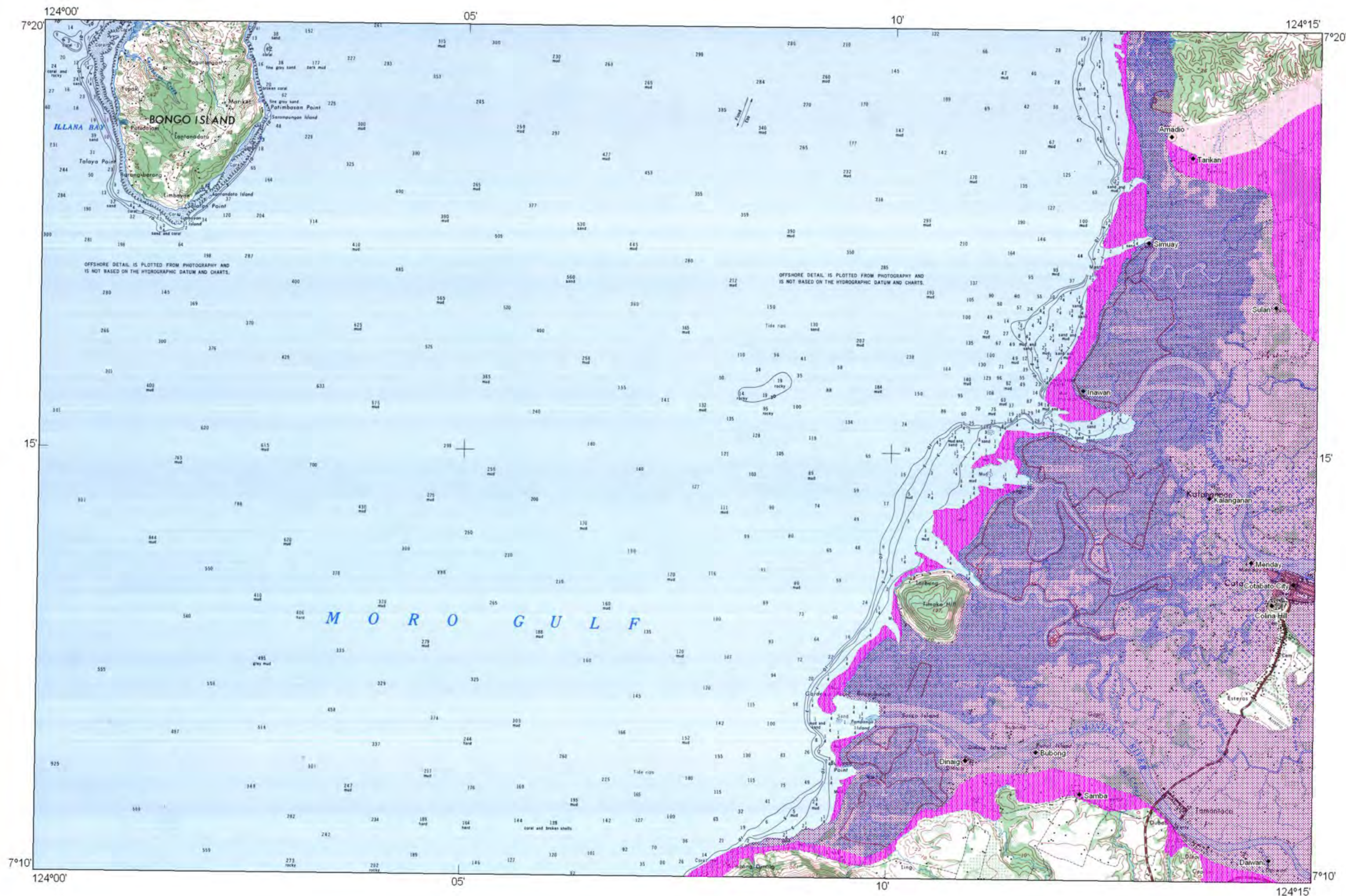
Base Map :
Sheet No. 3940 II "Buluan Quadrangle"



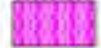
LANDS GEOLOGICAL SURVEY DIVISION
MINES AND GEOSCIENCES BUREAU
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF COTABATO QUADRANGLE MAGUINDANAO PROVINCE, PHILIPPINES

INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains for several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

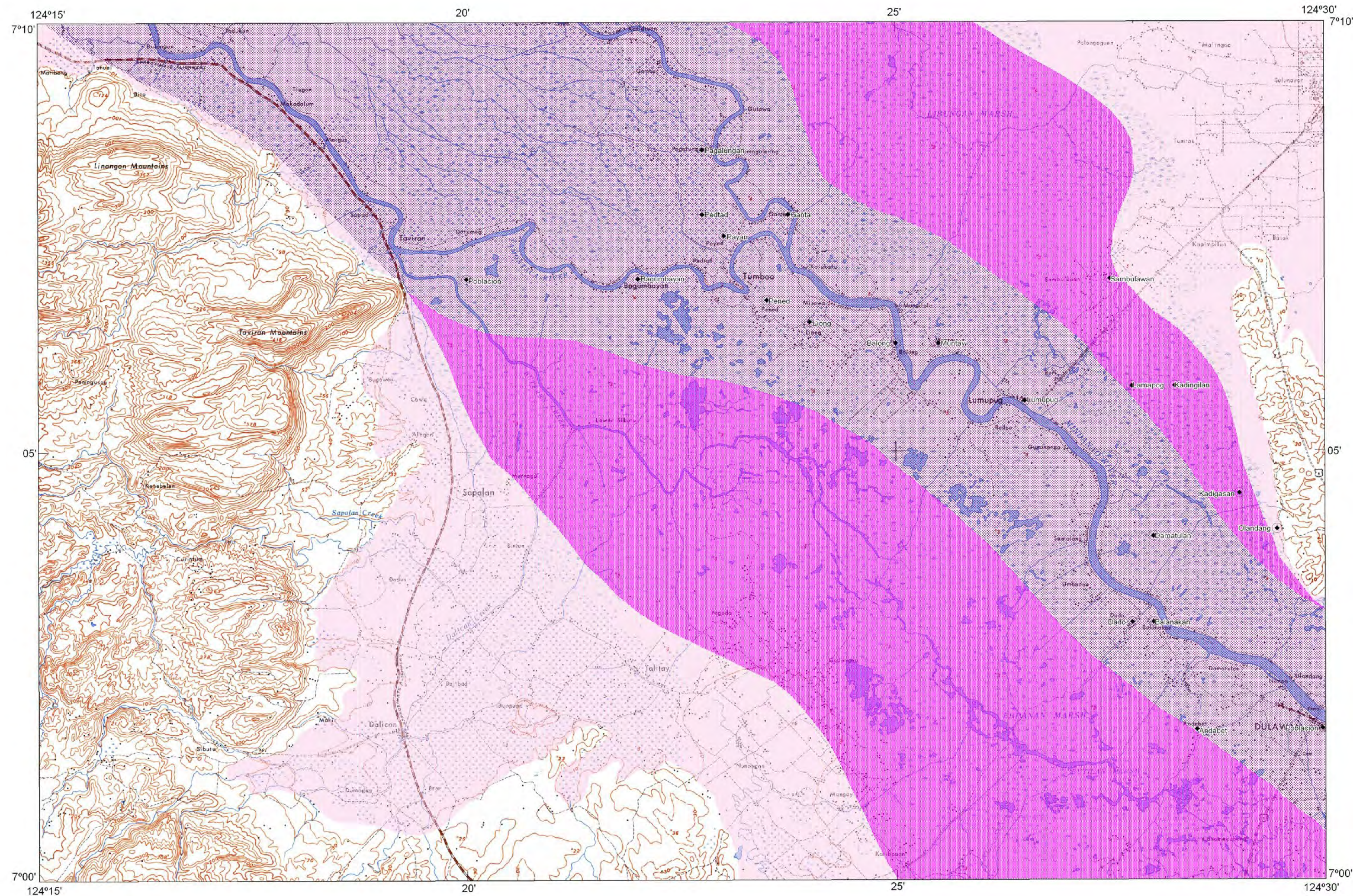
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XIII

Base Map :
Sheet No. 3841 IV "Cotabato Quadrangle"

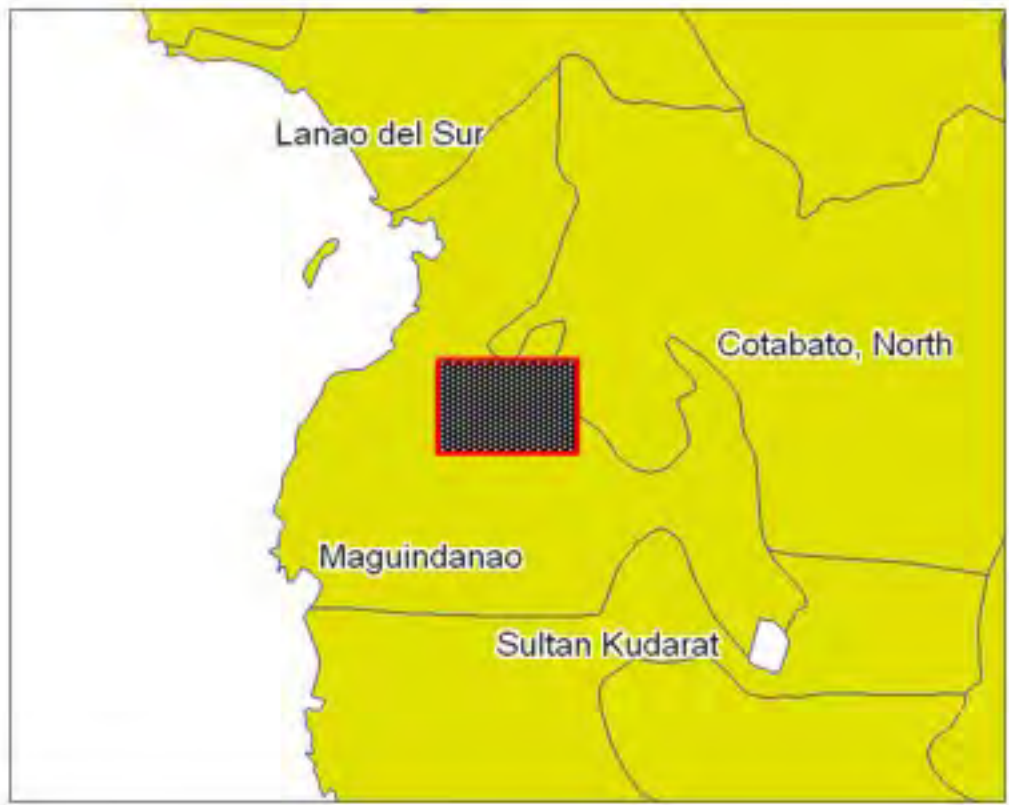


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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF DULAWAN QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES

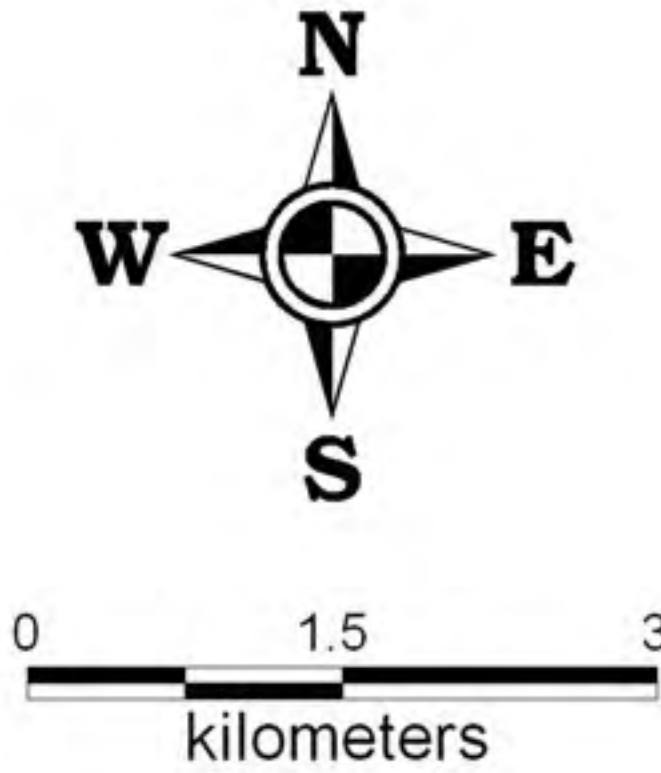


INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  Barangay center location



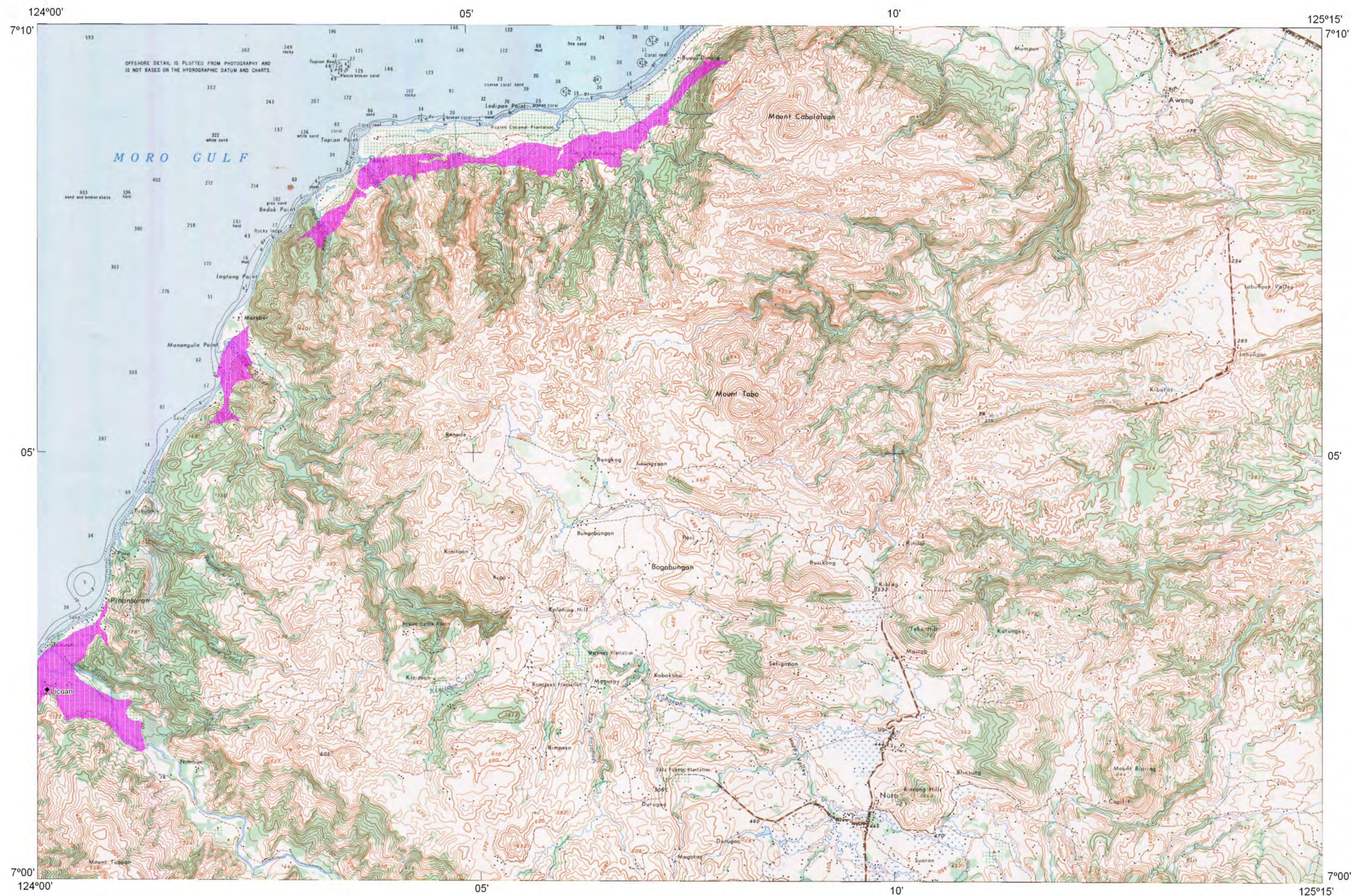
TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

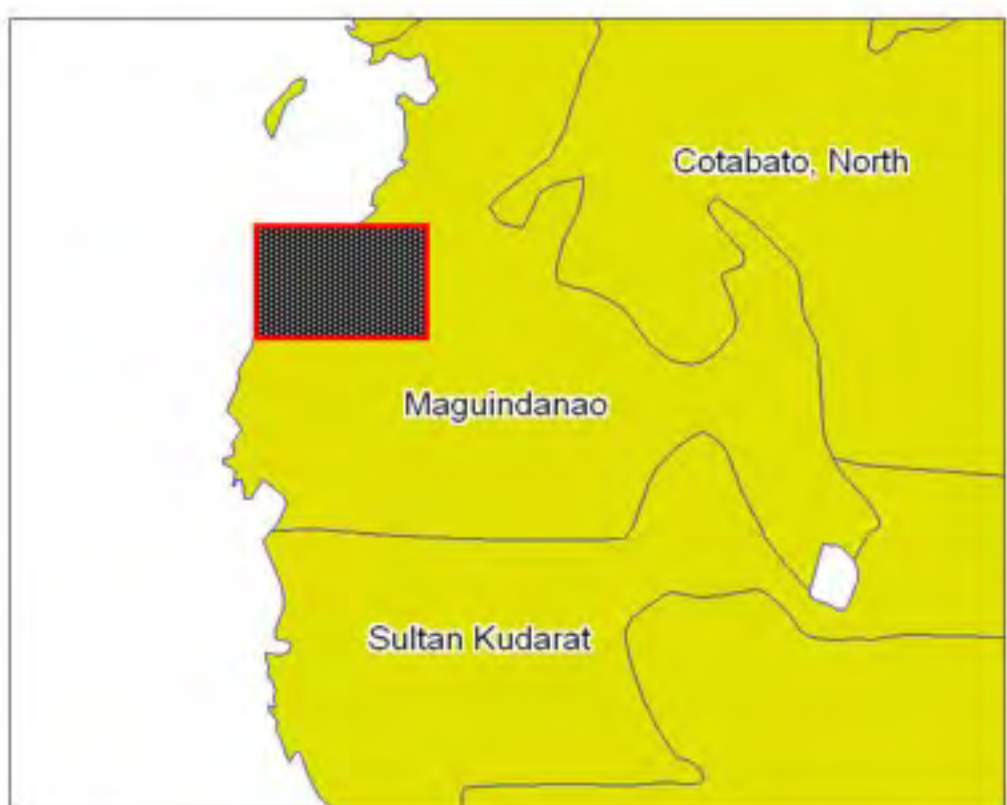
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3841 II "Dulawan Quadrangle"

FLOOD SUSCEPTIBILITY MAP OF LABUNGAN QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

- Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
- Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

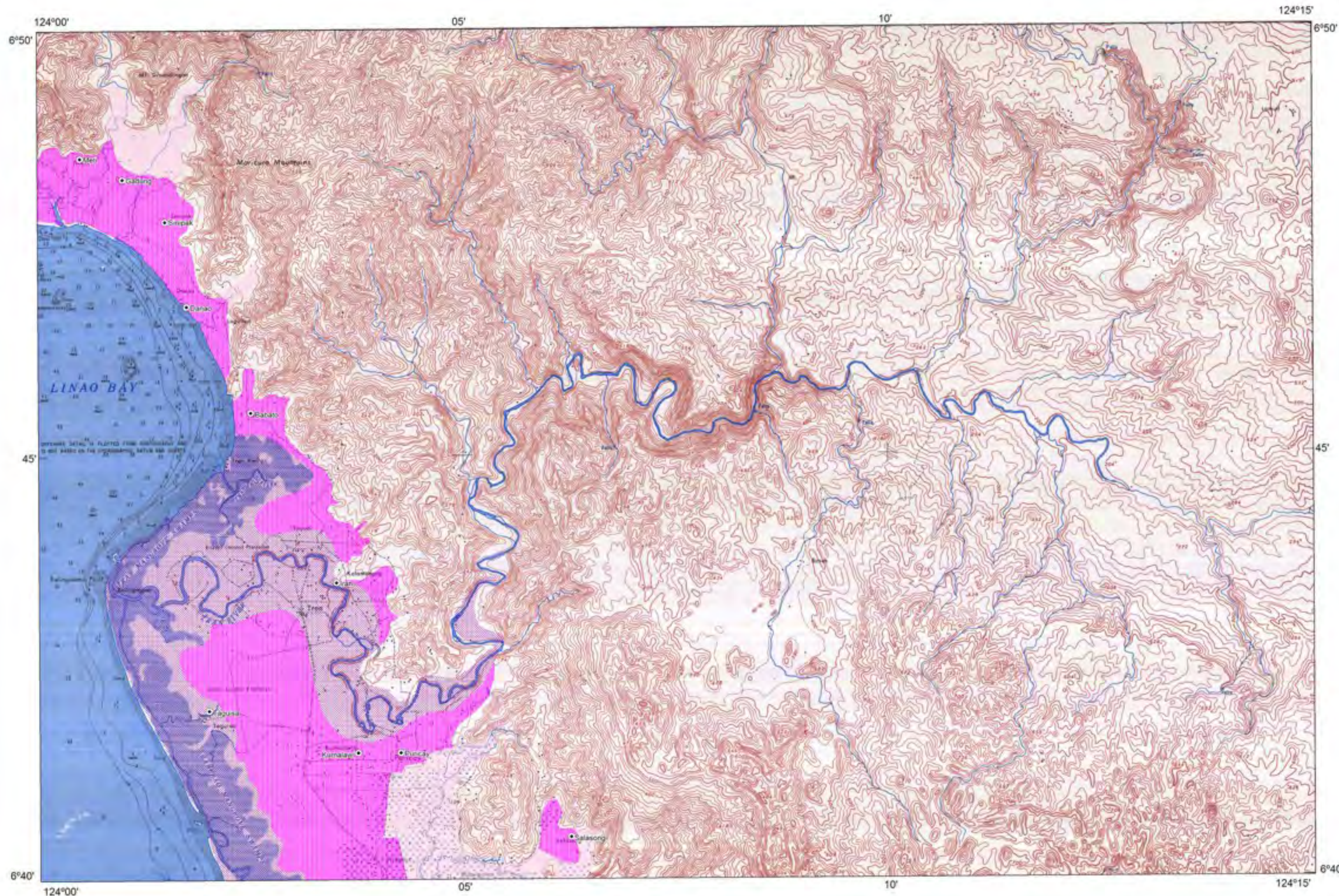
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XIII

Base Map :
Sheet No. 3841 III "Labungan Quadrangle"



LANDS GEOLOGICAL SURVEY DIVISION
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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF METI QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

- High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours, include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks, also prone to flashfloods.
- Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
- Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
- Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

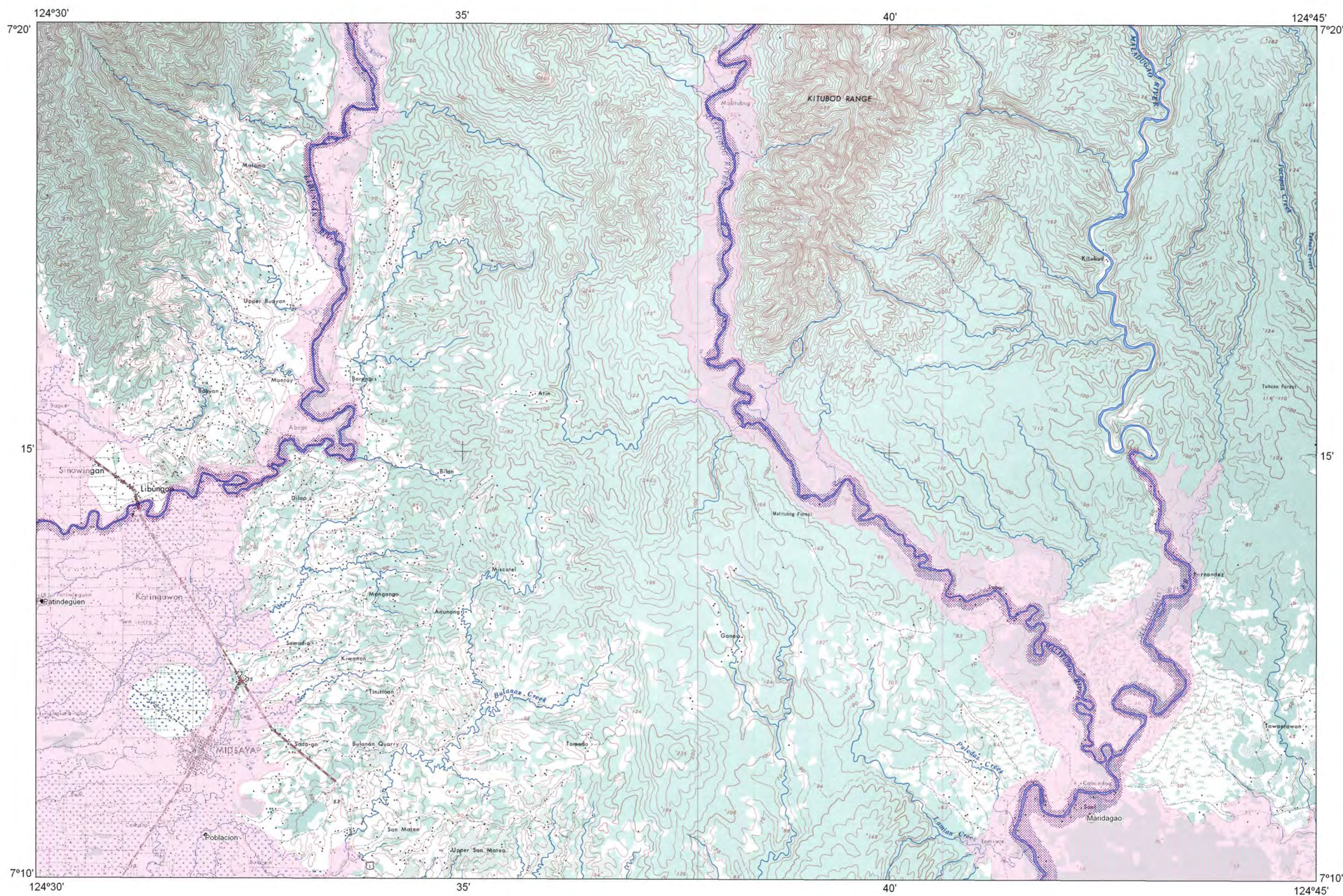
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3840 III "Meti Quadrangle"

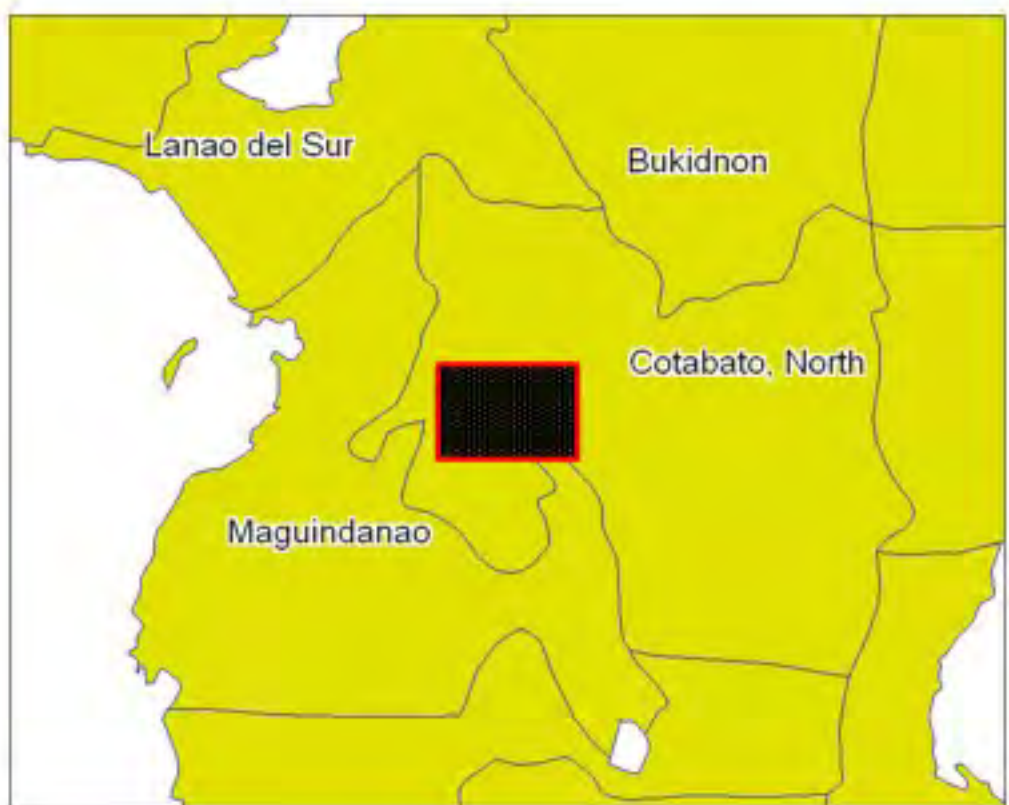


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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF MIDSAYAP QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES

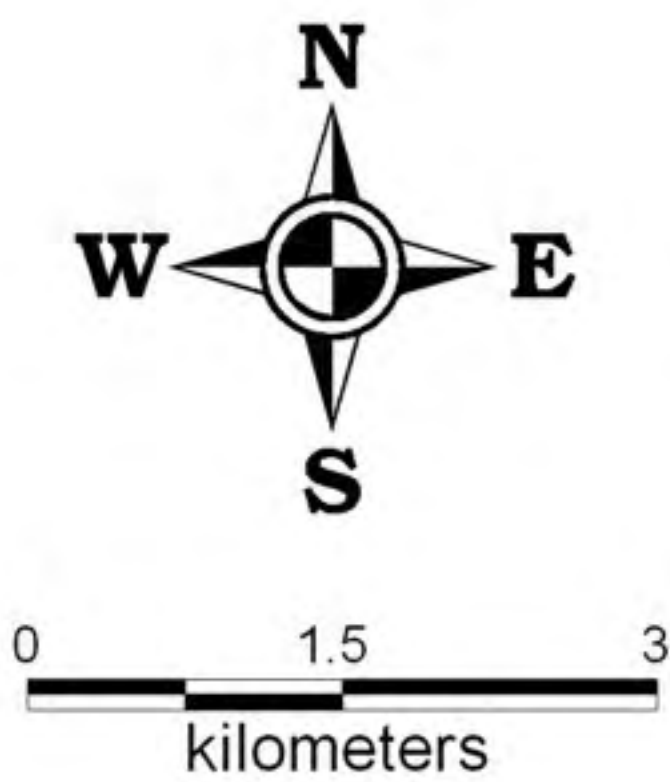


INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



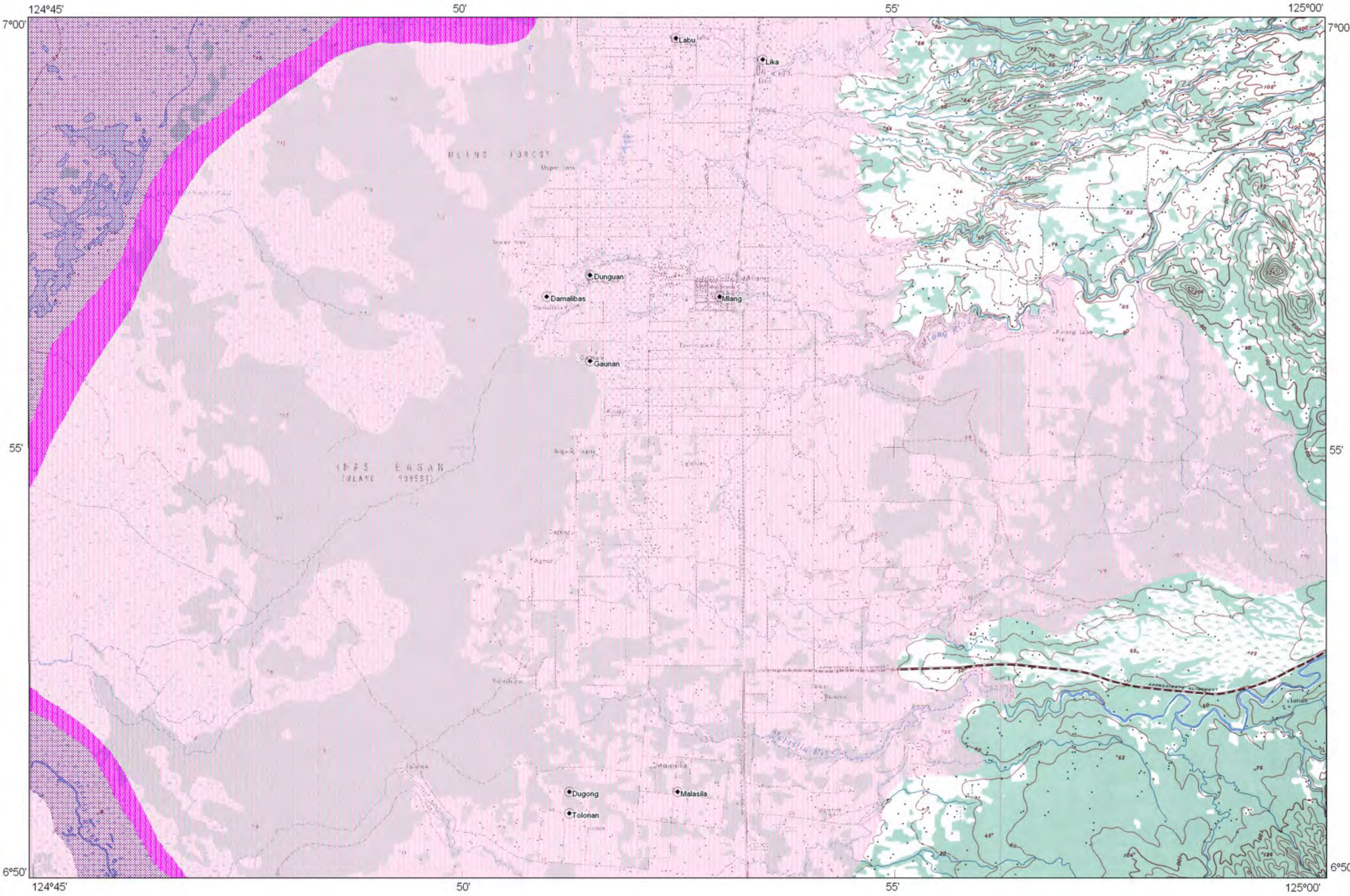
TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3941 IV "Midsayap Quadrangle"

FLOOD SUSCEPTIBILITY MAP OF MLANG QUADRANGLE MAGUINDANAO PROVINCE, PHILIPPINES

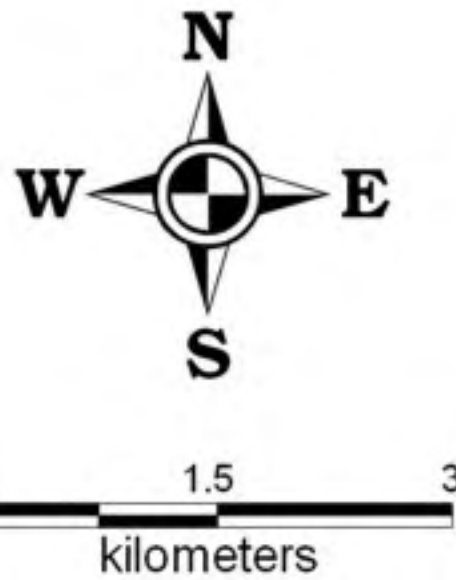


INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains for several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



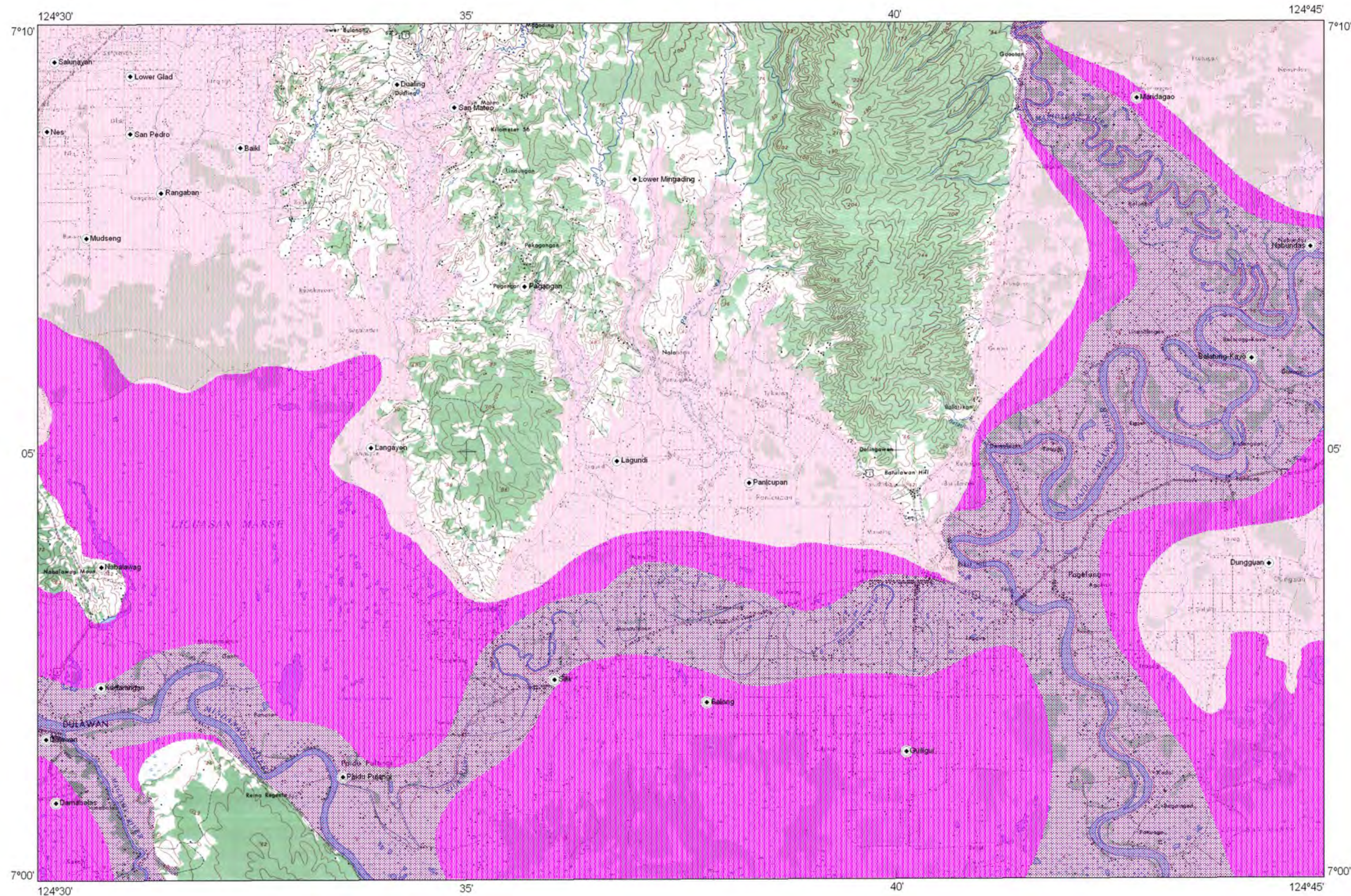
TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

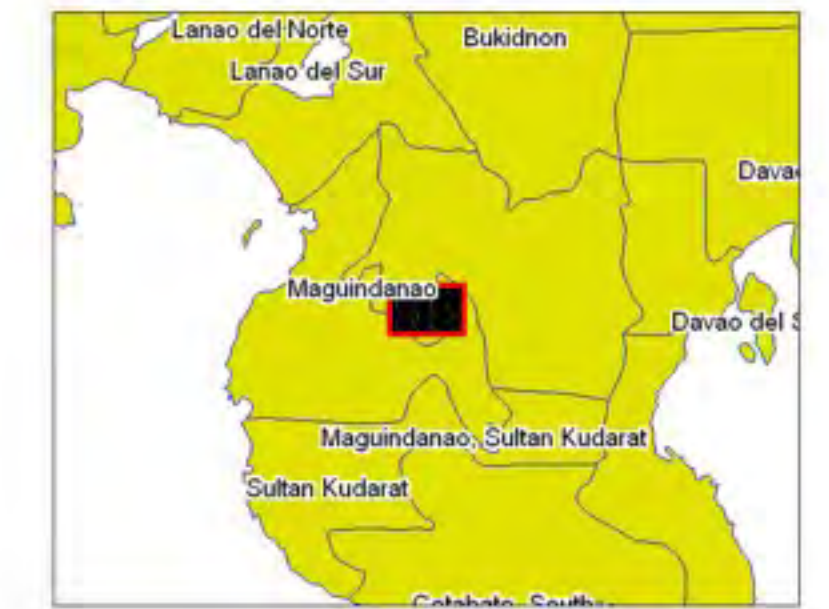
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3940 I "Mlang Quadrangle"

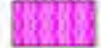
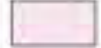
FLOOD SUSCEPTIBILITY MAP OF PAGALUNGAN QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

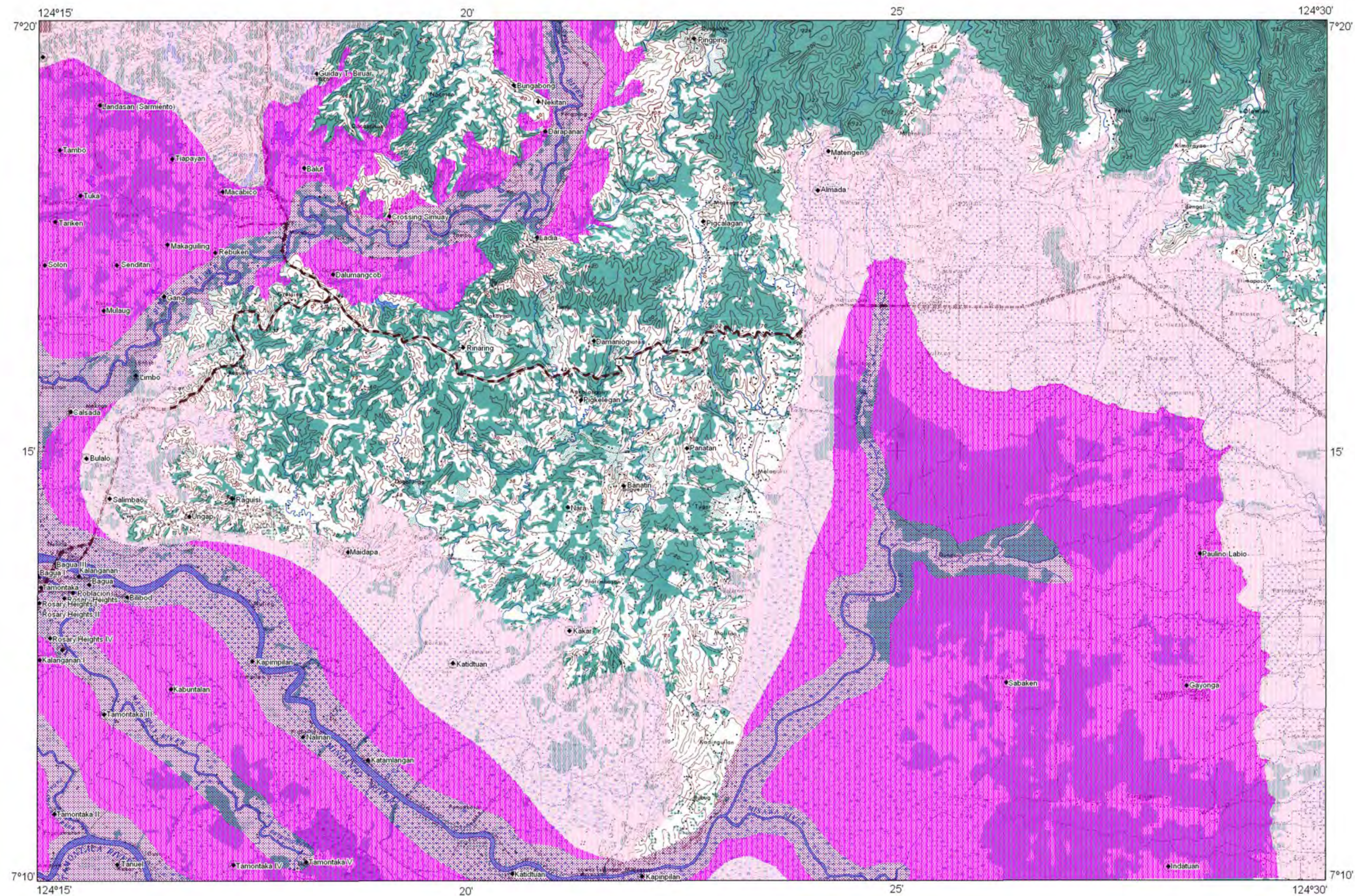
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3941 III "Pagalungan Quadrangle"



LANDS GEOLOGICAL SURVEY DIVISION
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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF PIGCAWAYAN QUADRANGLE MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains for several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

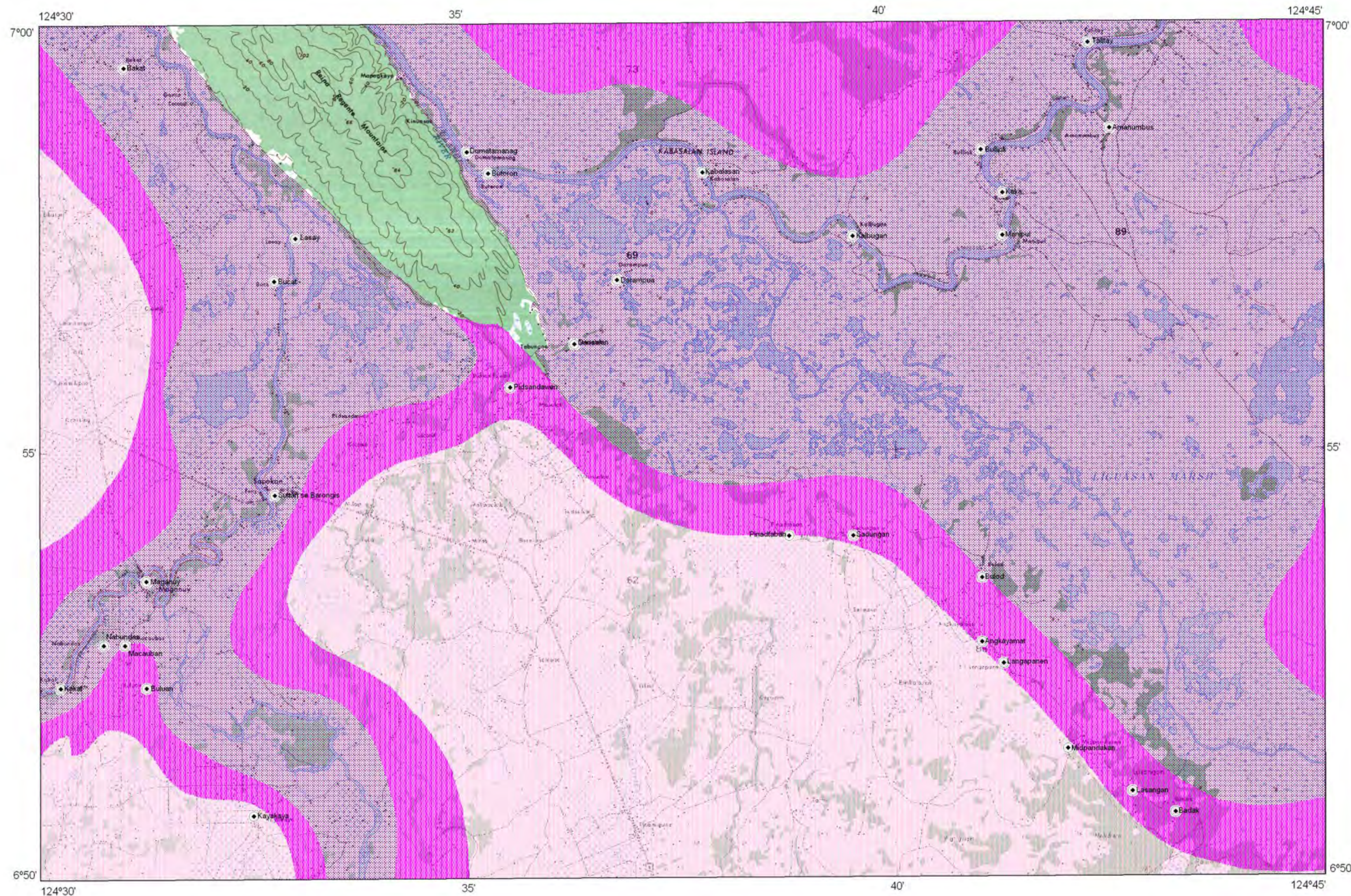
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XIII

Base Map :
Sheet No. 3841 I "Pigcawayan Quadrangle"

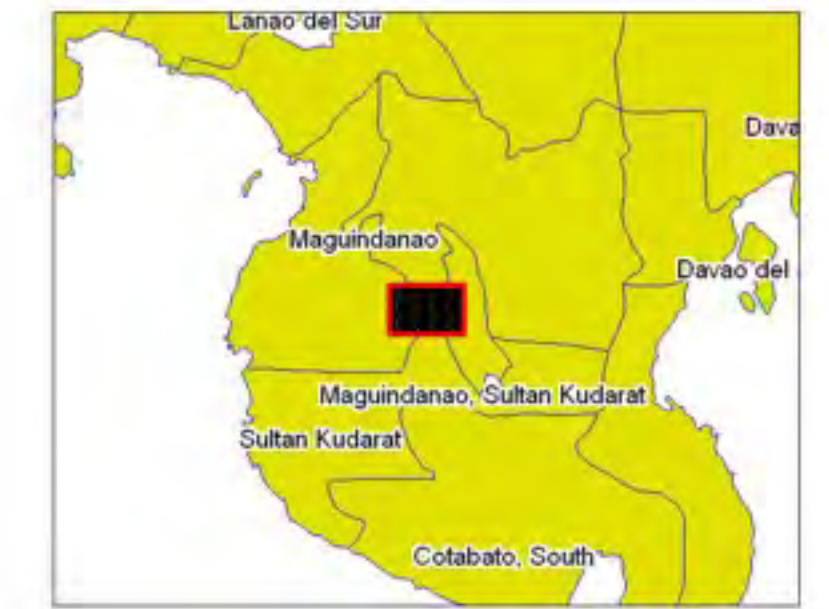


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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF SAPAKAN QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

- High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
- Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
- Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
- Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

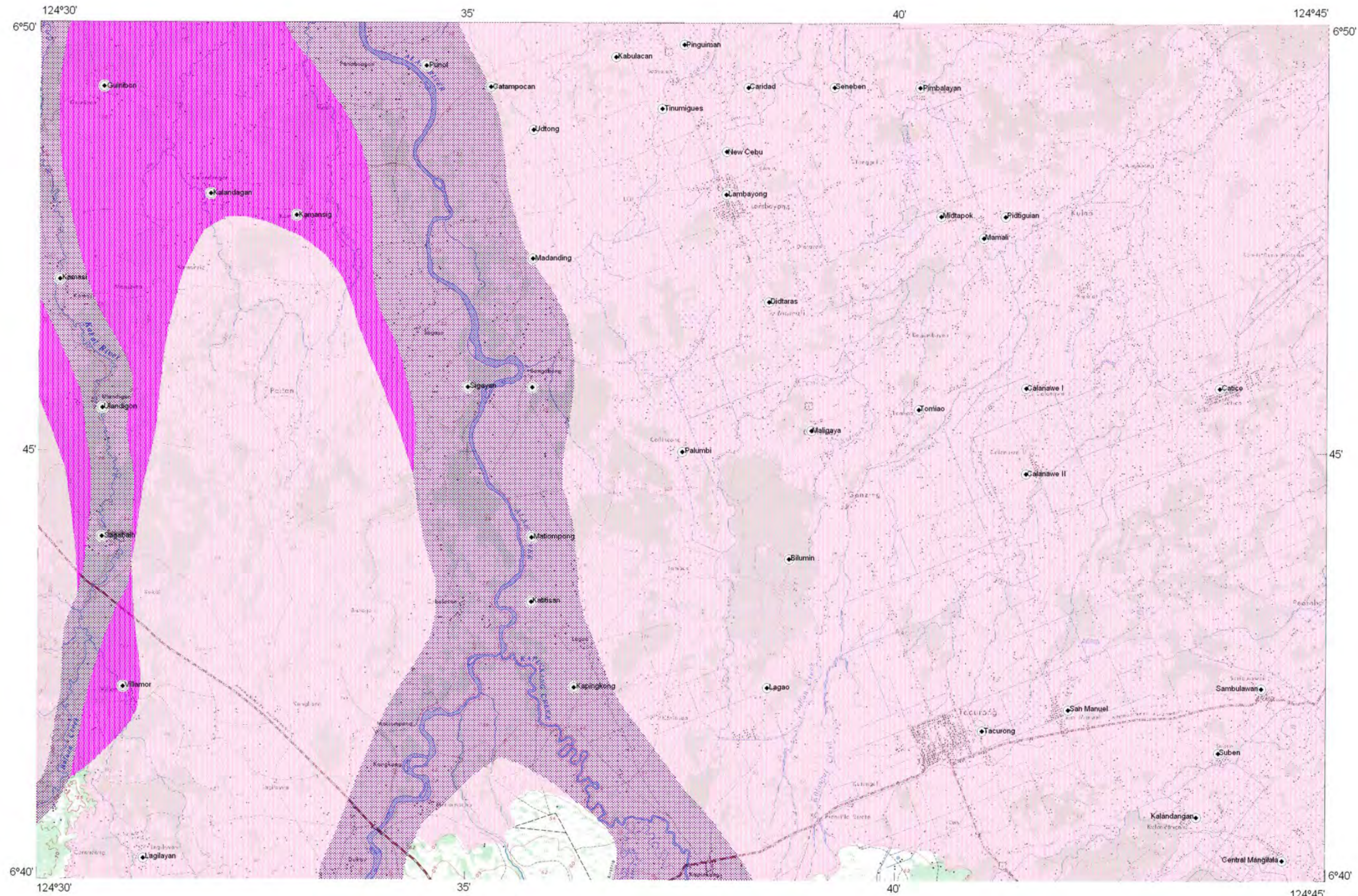
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3940 IV "Sapakan Quadrangle"



**LANDS GEOLOGICAL SURVEY DIVISION
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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF TACURONG QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

- High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
- Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
- Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
- Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

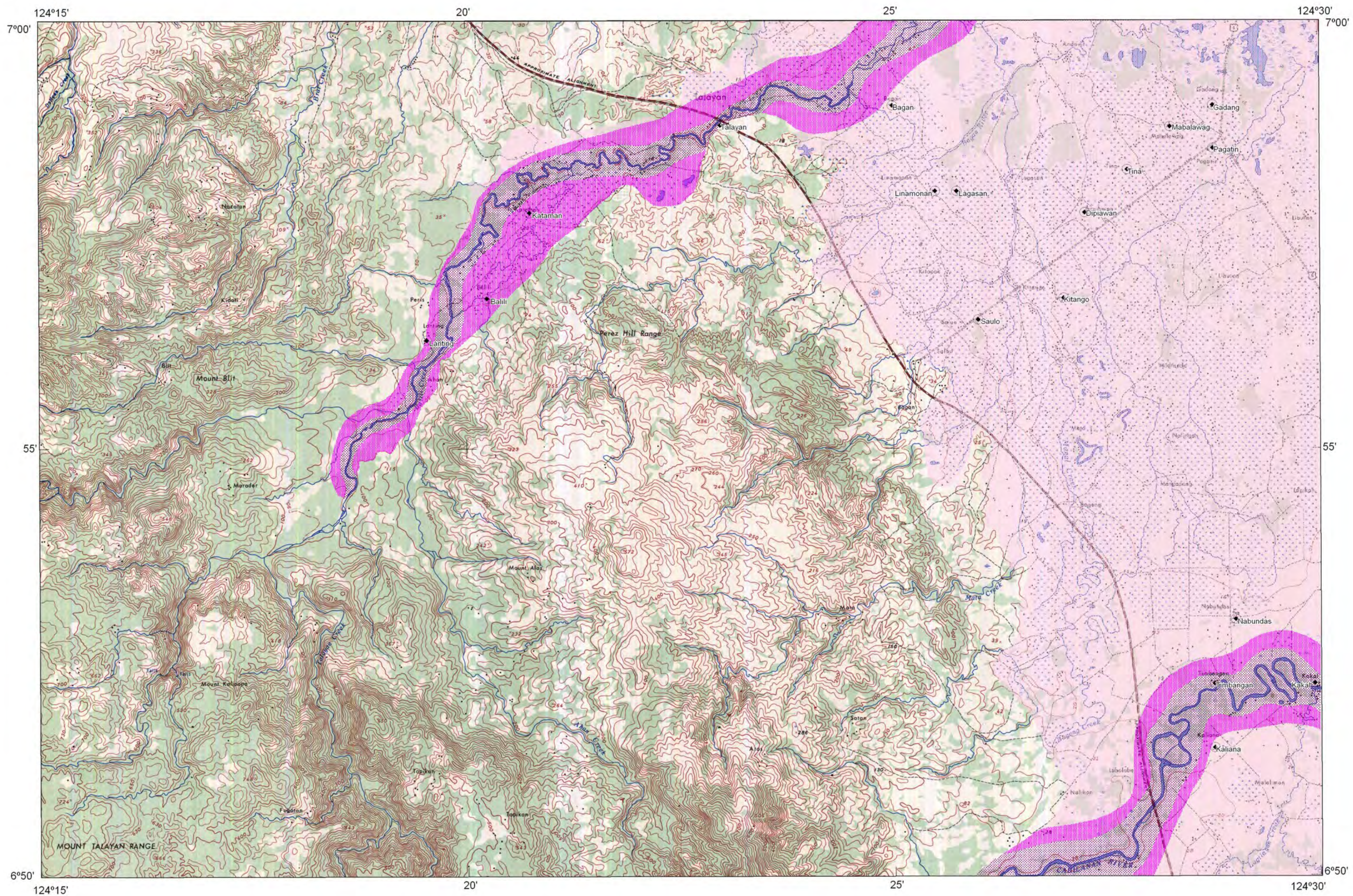
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3940 III "Tacurong Quadrangle"

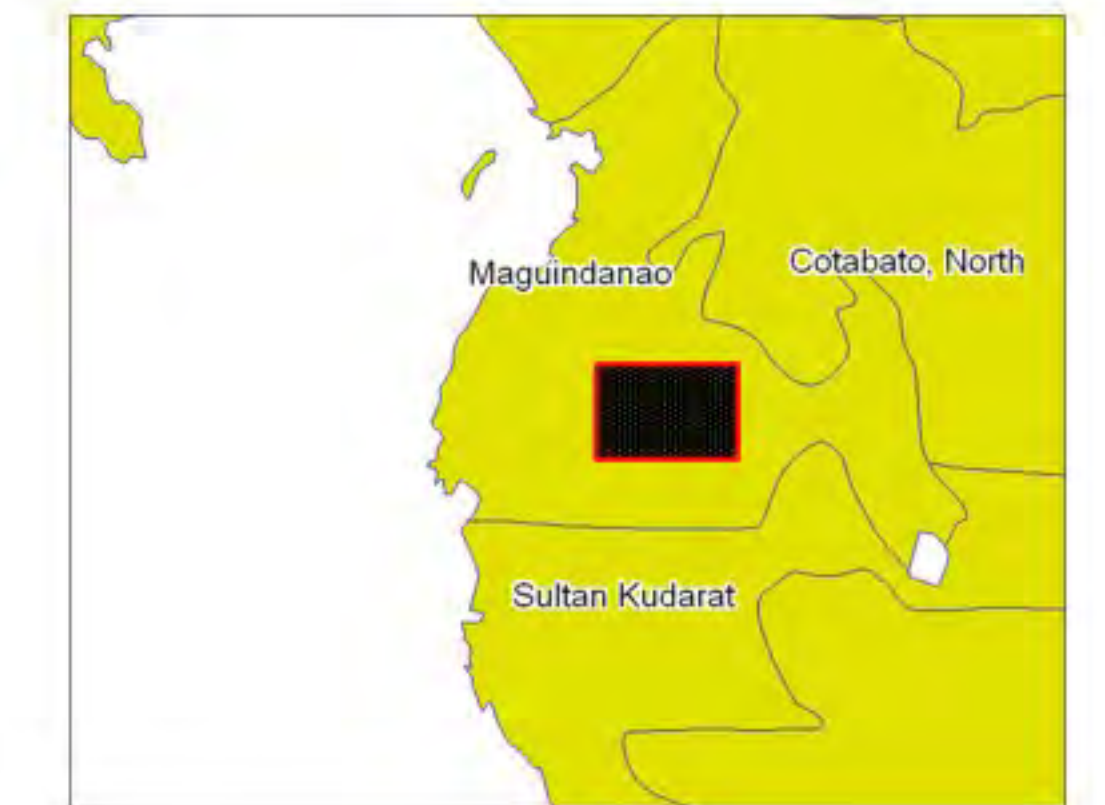


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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF TALAYAN QUADRANGLE, MAGUINDANAO PROVINCE, PHILIPPINES



INDEX MAP



LEGEND :

-  **High susceptibility to flooding**
Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.
-  **Moderate susceptibility to flooding**
Areas with 0.5 meter to 1.0 meter flood height which is subjected to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.
-  **Low susceptibility to flooding**
Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.
-  **Barangay center location**



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO XII

Base Map :
Sheet No. 3840 I "Talayan Quadrangle"

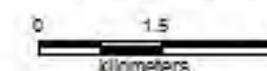


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MINES AND GEOSCIENCES BUREAU
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

FLOOD SUSCEPTIBILITY MAP OF TALAYAN QUADRANGLE SHEET NO. 3840-I MAGUINDANAO PROVINCE, ARMM, PHILIPPINES



MAPPING SCALE 1:150,000



TRANSVERSE MERCATOR PROJECTION

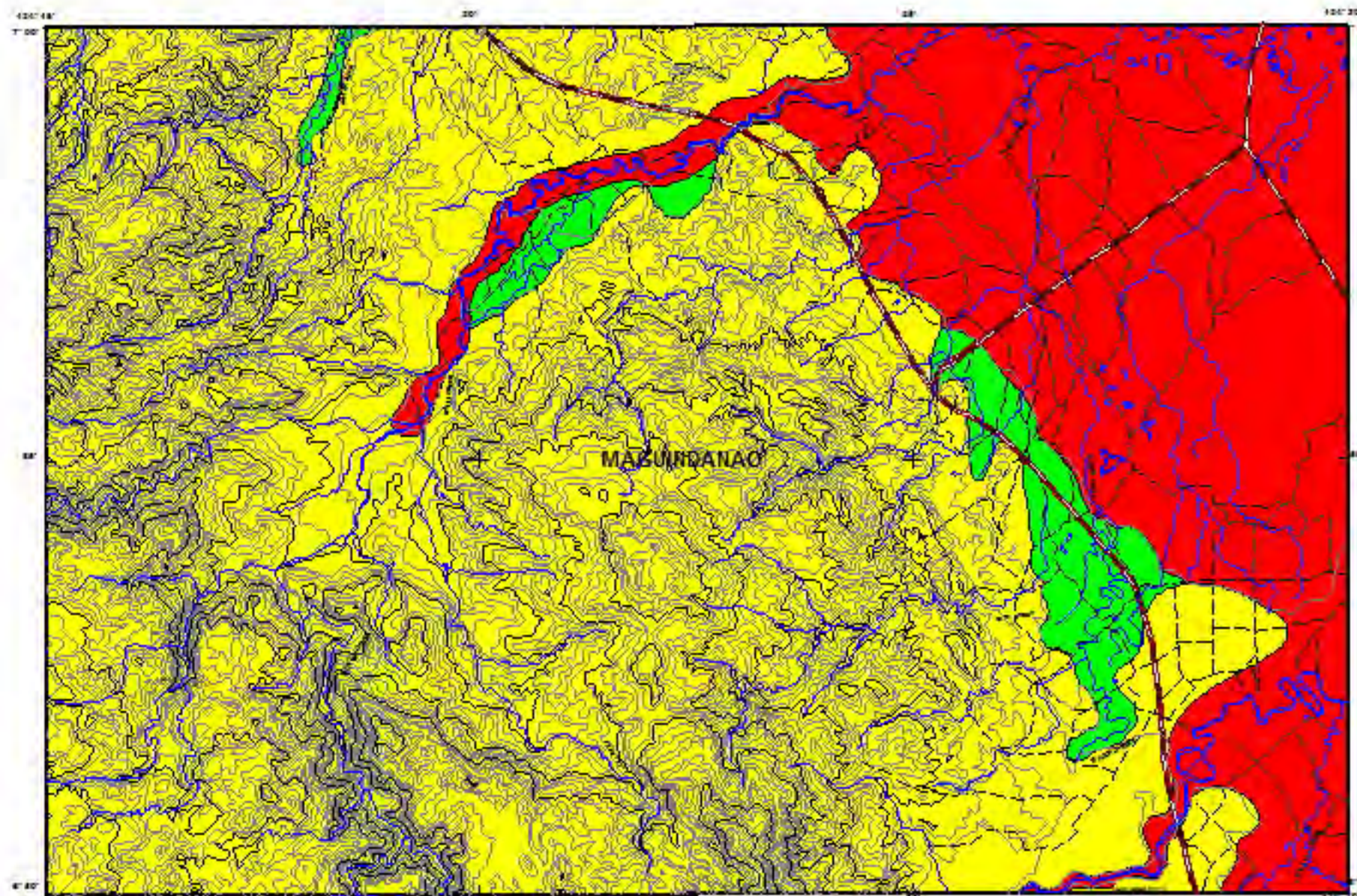
LEGEND : Flood Susceptibility Rating

- HIGH
- MODERATE
- LOW TO NONE
- Drainage System
- Contour
- Road Network
- Barangay Boundary
- Municipal Boundary
- Provincial Boundary
- Barangay Location
- Municipal (Pob.) location

GIS Processing :
Geosciences Services Division
Mines & Geosciences Bureau Region XII

DATA SOURCES:
Mines & Geosciences Bureau Region XII
LGU-Municipal Planning & Development Office
LGU-Provincial Planning & Development Office

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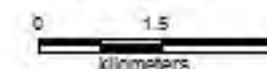
GEOSCIENCES SERVICES DIVISION
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU REGION XII
Koronadal City
Tel No. (082) 228-6130, Fax No. (082) 228-6131
E-Mail: mgb_xii@yahoo.com, Website: mgb12.net

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LANDSLIDE SUSCEPTIBILITY MAP OF TALAYAN QUADRANGLE SHEET NO. 3840-I MAGUINDANAO PROVINCE, ARMM, PHILIPPINES



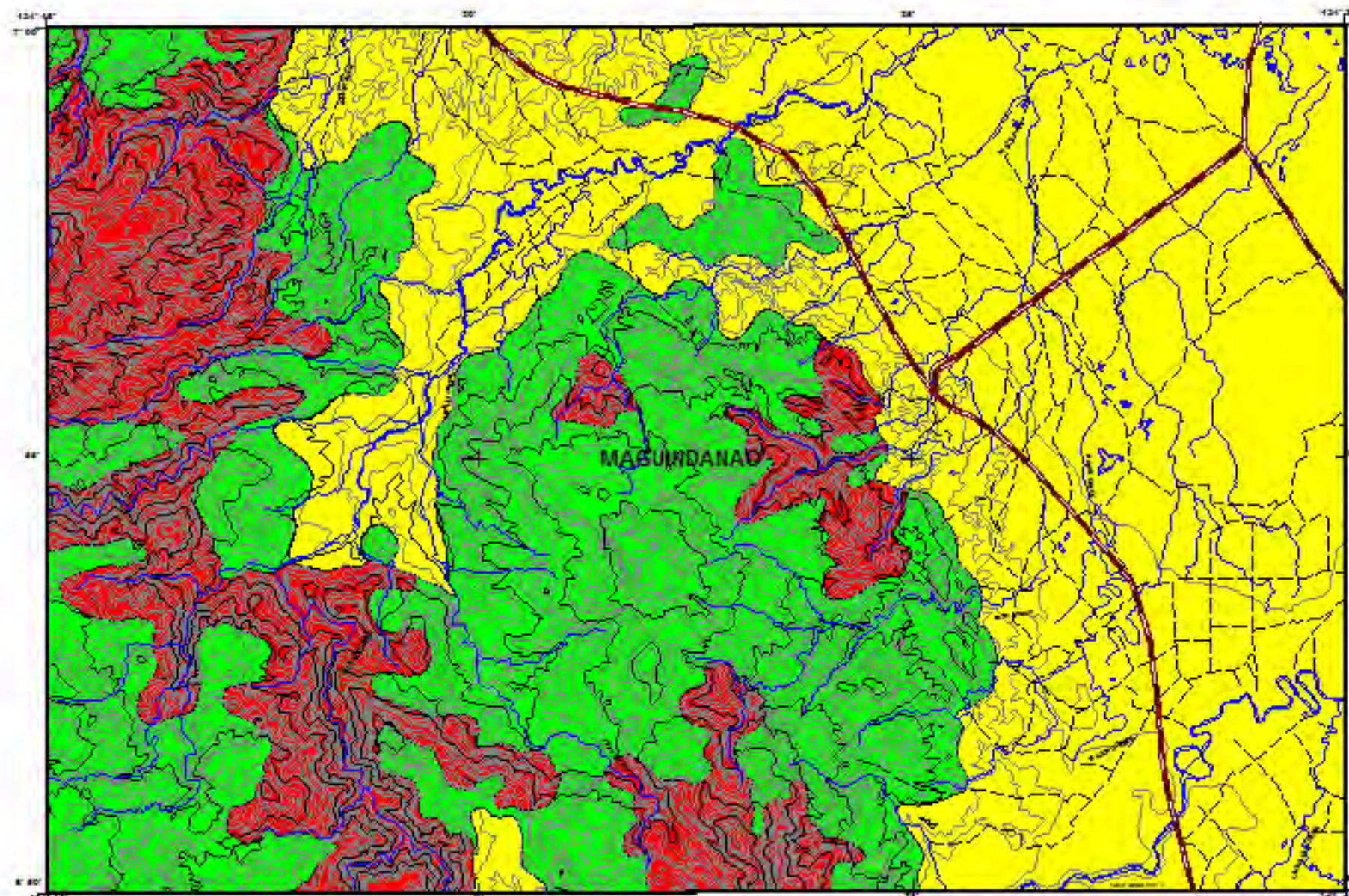
MAPPING SCALE 1:150,000



TRANSVERSE MERCATOR PROJECTION

LEGEND : Landslide Susceptibility Rating

- HIGH
- MODERATE
- LOW TO NONE
- Drainage System
- Contour
- Road Network
- Barangay Boundary
- Municipal Boundary
- Provincial Boundary
- Barangay Location
- Municipal (Pob.) location



GIS Processing :
Geosciences Services Division
Mines & Geosciences Bureau Region XII

DATA SOURCES:
Mines & Geosciences Bureau Region XII
LGU-Municipal Planning & Development Office
LGU-Provincial Planning & Development Office

INDEX MAP



GEOSCIENCES SERVICES DIVISION
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU REGION XII
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