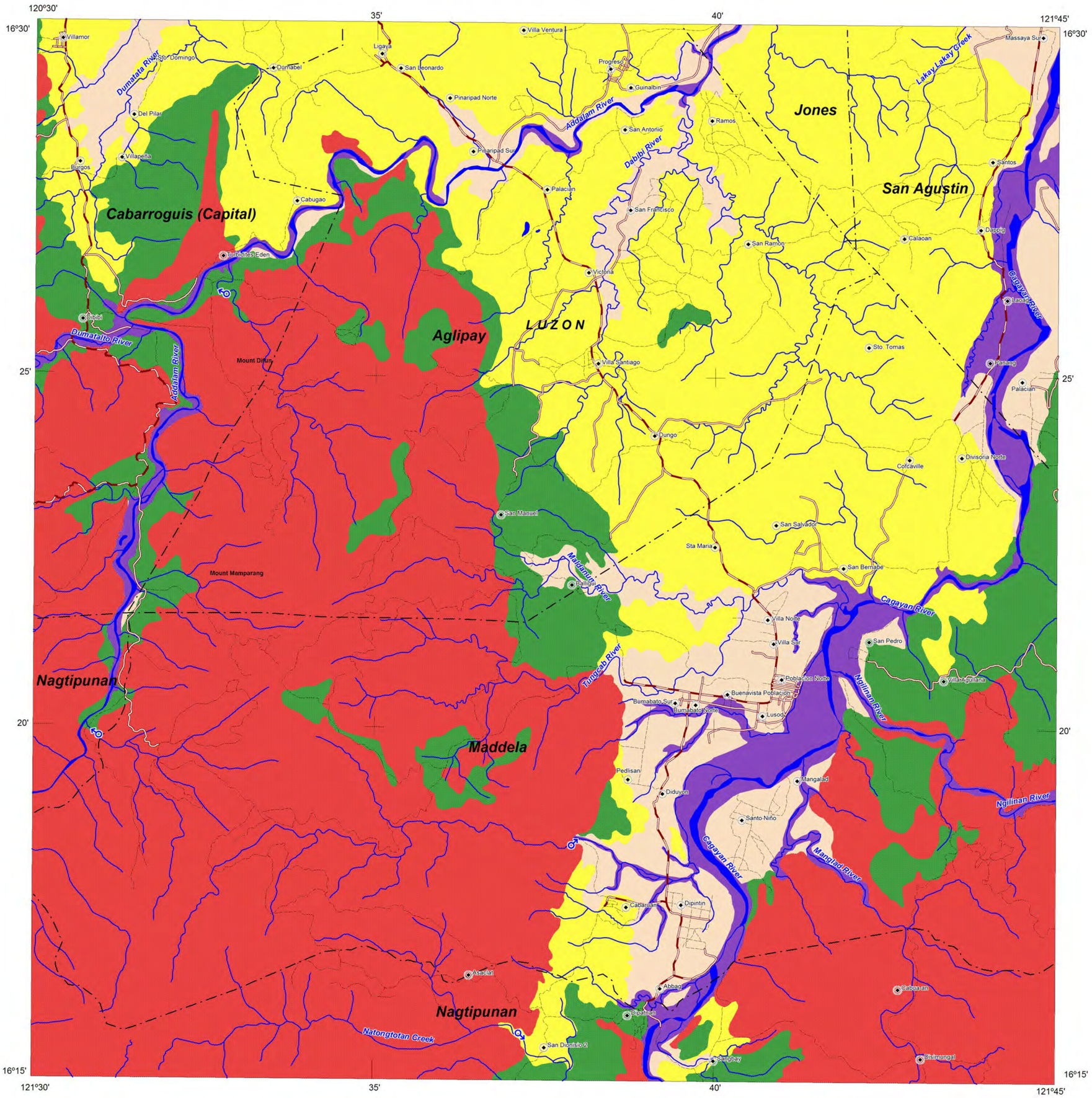
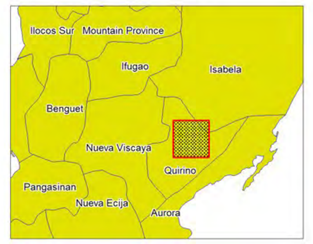
# LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF MADDELA QUADRANGLE
# ISABELA AND QUIRINO PROVINCES, PHILIPPINES




INDEX MAP




**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.

**High susceptibility to flooding**

Areas with greater than 1 meter flood height. These areas are usually flooded for several hours during heavy rains; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.

**Low to moderate susceptibility to flooding**

Areas with less than 1.0 meter flood height. These are usually inundated during prolonged and extensive heavy rainfall or extreme weather condition

Roads

River

Municipal boundary

Barangay center location

Flash flood exit point

N
W E
S

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 II

**Base Map :**
Sheet No. 7375 IV "Maddela Quadrangle"

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

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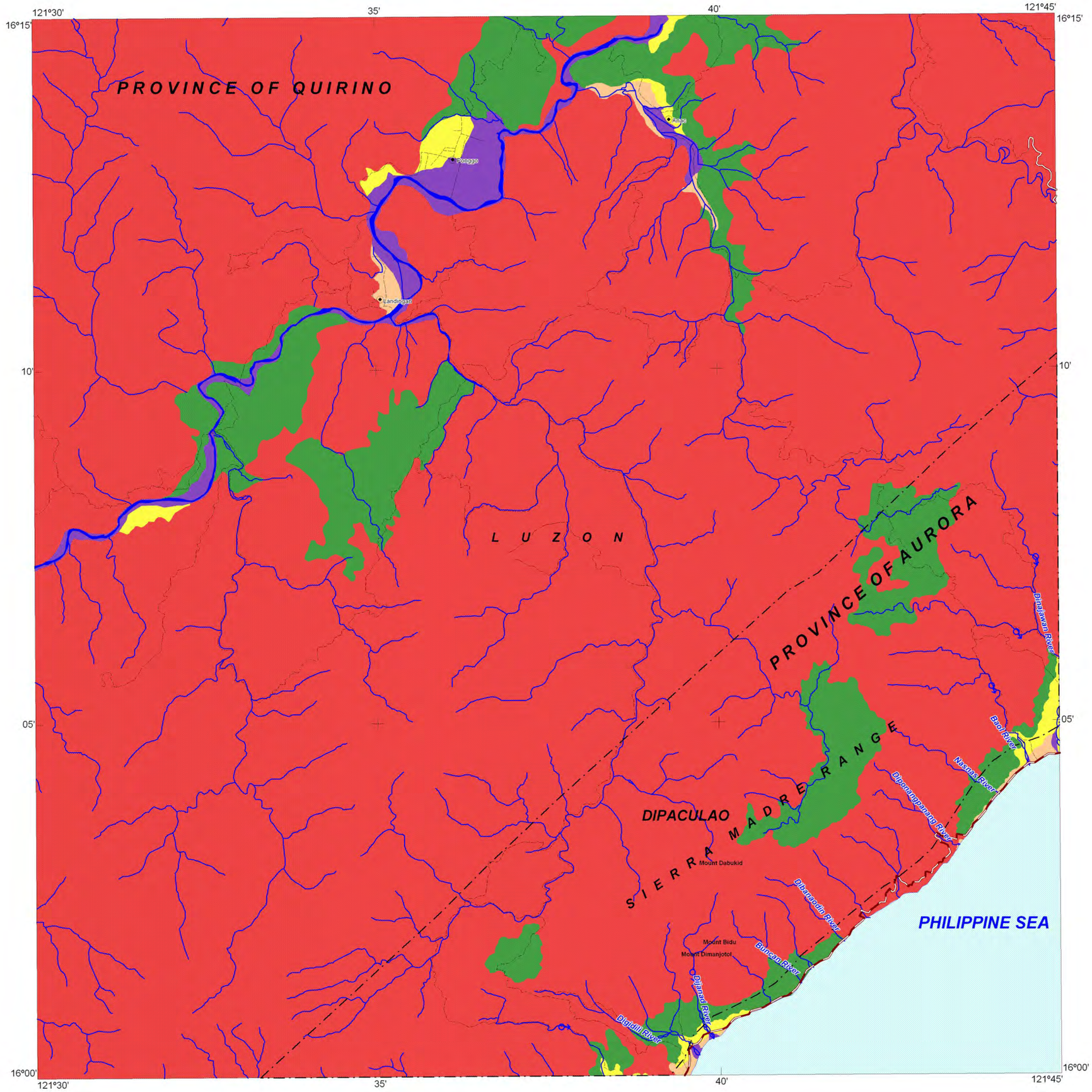
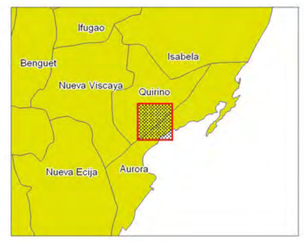
# LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF NAGTIPUNAN QUADRANGLE QUIRINO AND AURORA PROVINCES, PHILIPPINES




INDEX MAP




**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.

**High susceptibility to flooding**

Areas with greater than 1 meter flood height. These areas are usually flooded for several hours during heavy rains; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.

**Low to Moderate 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.

Roads

River

Municipal boundary

Flash flood exit point

Barangay center location

N
W E
S

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 Regions II and III

**Base Map :**
Sheet No. 7375 III "Nagtipunan Quadrangle"

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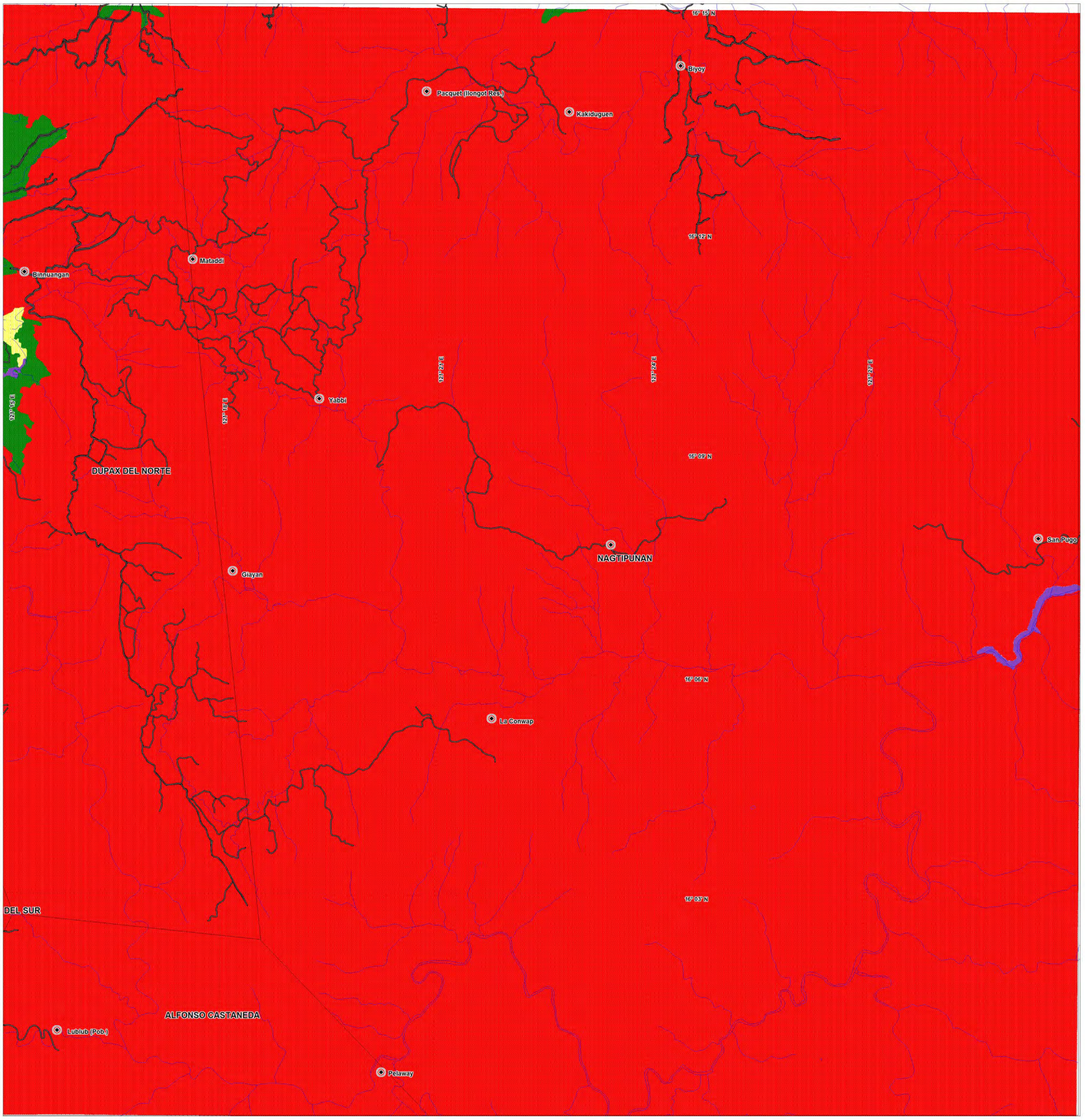
# LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF TAUAYAN QUADRANGLE, QUIRINO PROVINCE, PHILIPPINES




## LEGEND :

**Landslide**

- High susceptibility to landslide
- Moderate susceptibility to landslide
- Low susceptibility to landslide

**Flooding**

- High susceptibility to flooding
- Low to moderate susceptibility to flooding

- Major road
- Secondary road
- River
- Municipal boundary
- Barangay hall location

1000 500 0 1000 2000 3000 4000Meters

LATITUDE/LONGITUDE
Luzon for Philippines
MAPPING SCALE 1:50,000

**GIS Processing :**
Geological Database and Information Systems Section
Urban Geology Section
Lands Geological Survey Division
Geosciences Division MGB RO II

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

**Base Map :**
Sheet No. 7275 II "Tauayan Quadrangle"

**INDEX MAP**

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