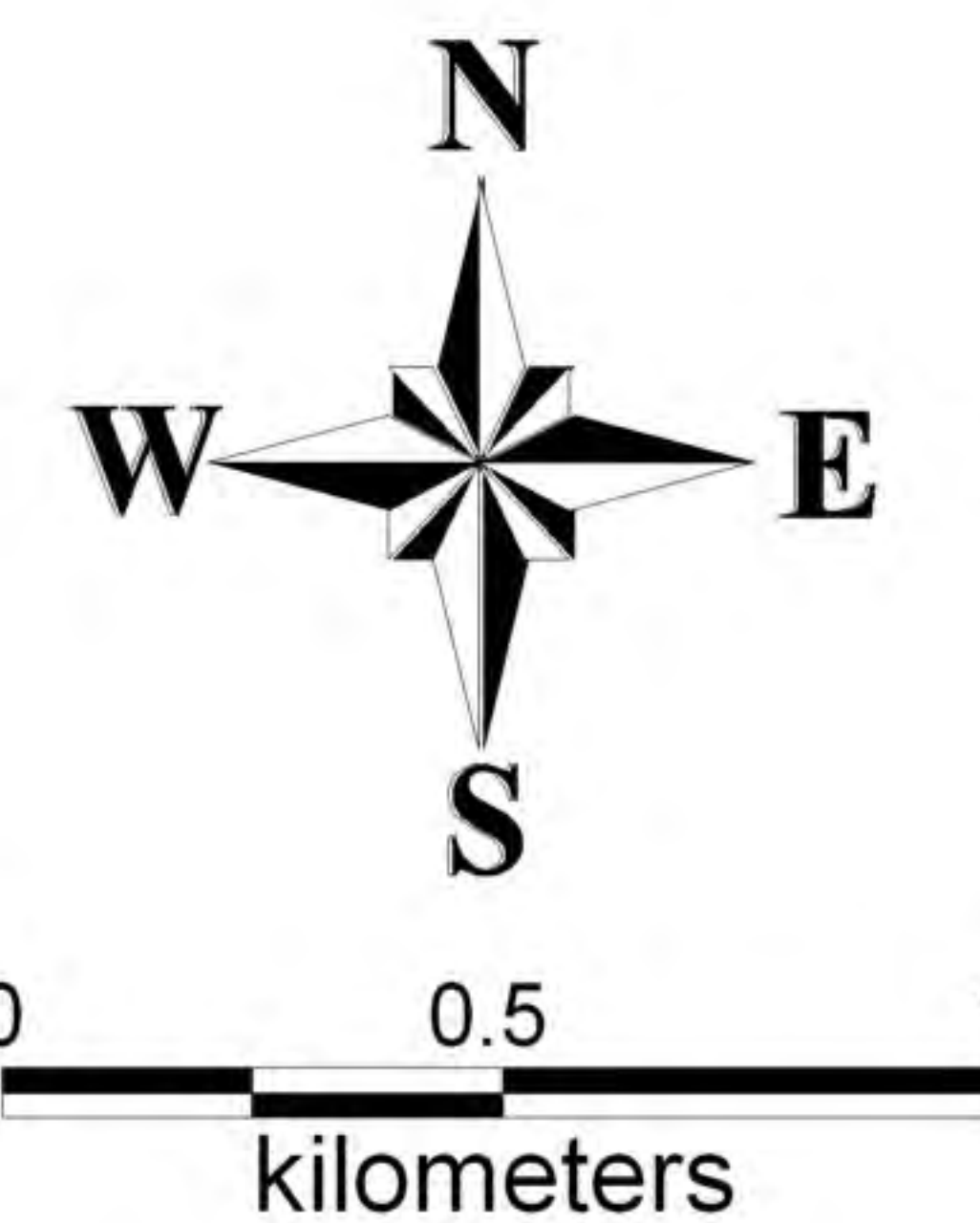


DETAILED LANDSLIDE HAZARD MAP OF BAGUIO CITY, BENGUET PROVINCE, PHILIPPINES



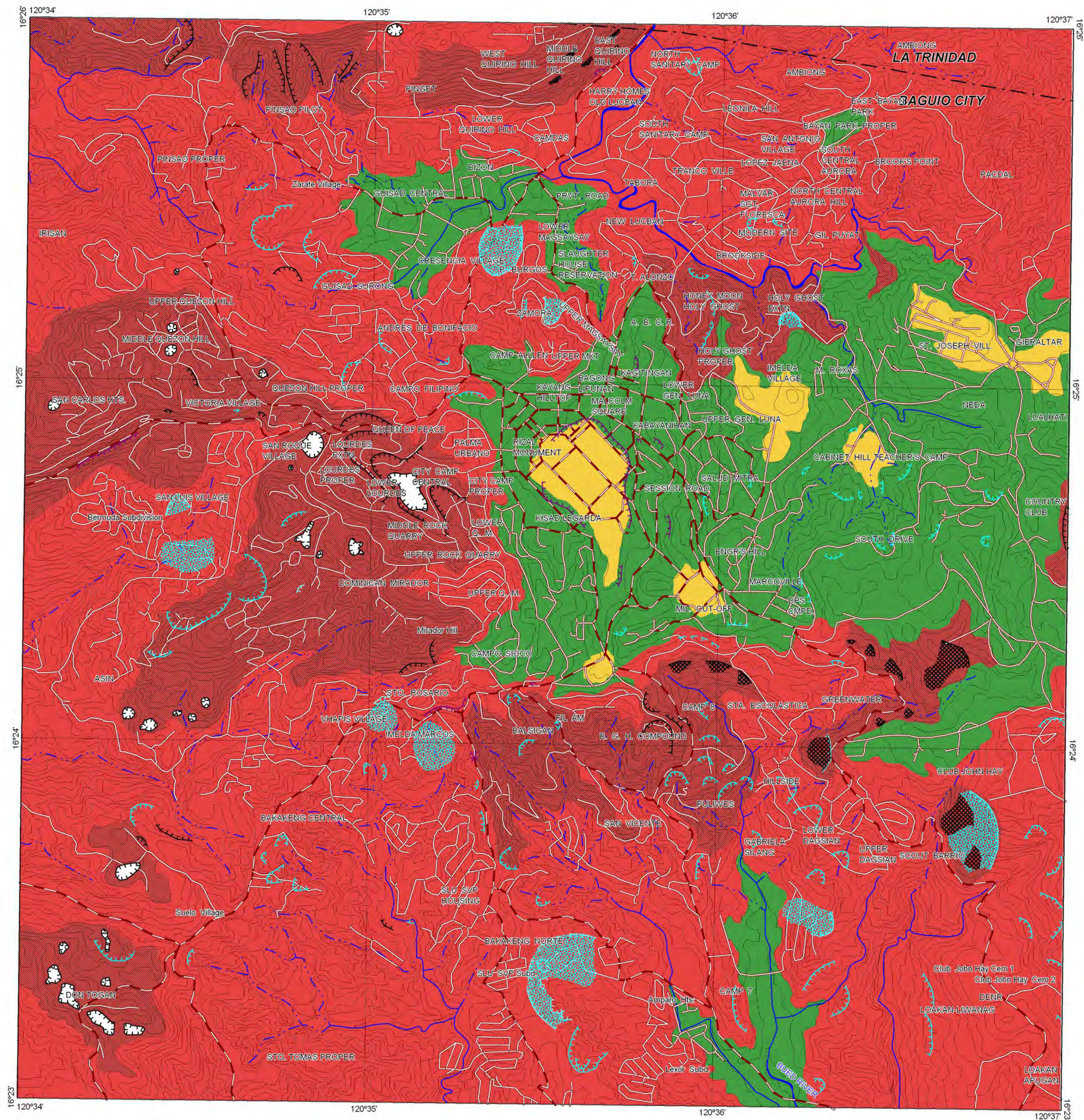
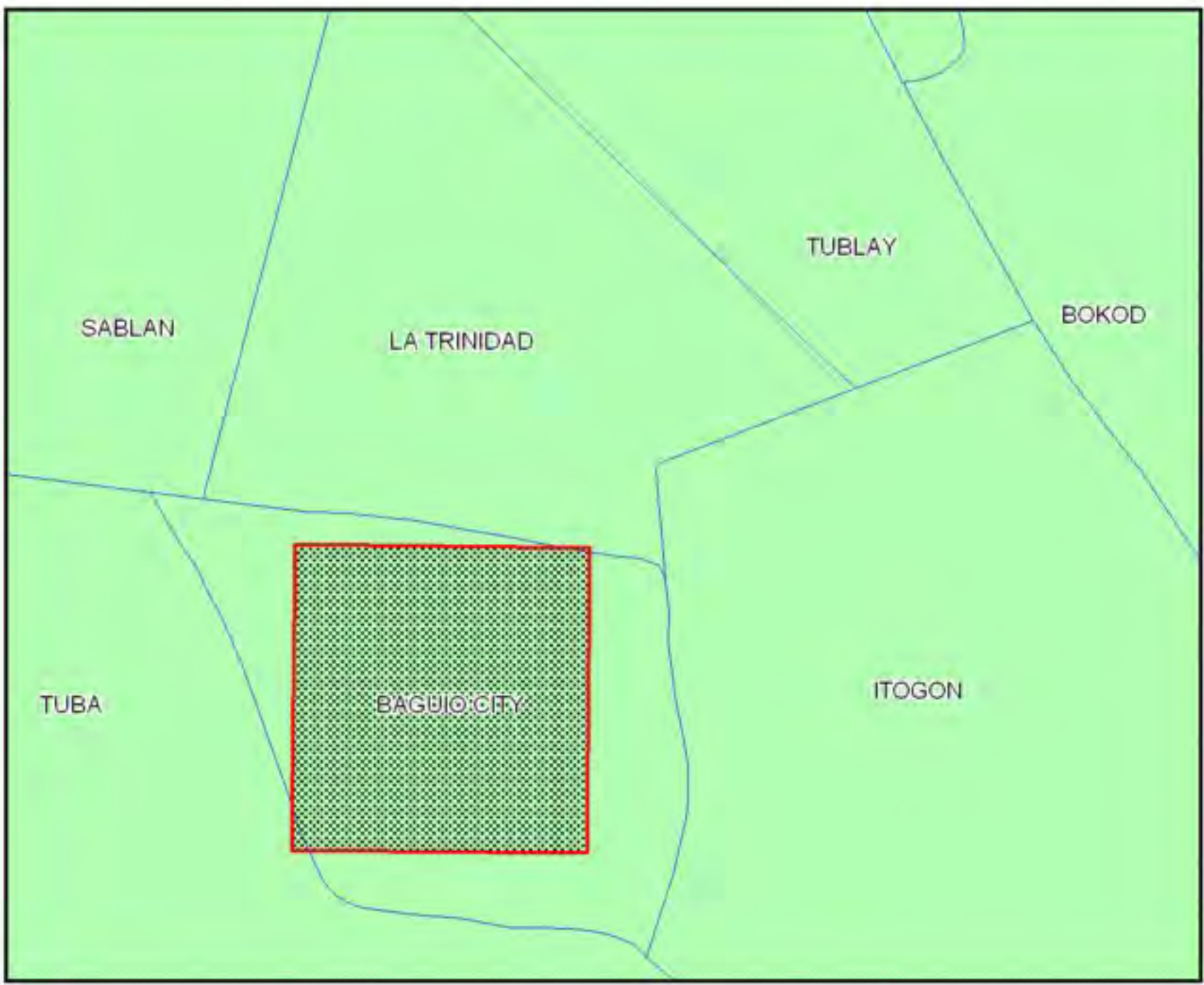
UTM Zone 51 Clarke 1866 Luzon Datum
MAPPING SCALE 1:10,000

LEGEND :

- High Landslide Susceptibility and Critical Areas**
Unstable areas, significant portions of which are affected by mass movements. Human initiated effects are usually high.
- High Landslide Susceptibility**
Unstable areas. Highly susceptible to mass movements.
- Moderate Landslide Susceptibility**
Stable areas with occasional and localized mass movement.
- Low Landslide Susceptibility**
Stable areas with no identified landslide scars, either inactive or active.
- Areas susceptible to ground subsidence/sinkhole development
- Areas susceptible to rockfall
- Recent landslide deposit
- Old landslide deposit
- Active landslide
- Old landslide
- Landslide area with engineering measures
- Soil Creep
- River
- Roads

Base Map :
1:10,000 Scale Topographic Map
"Baguio City Quadrangle"

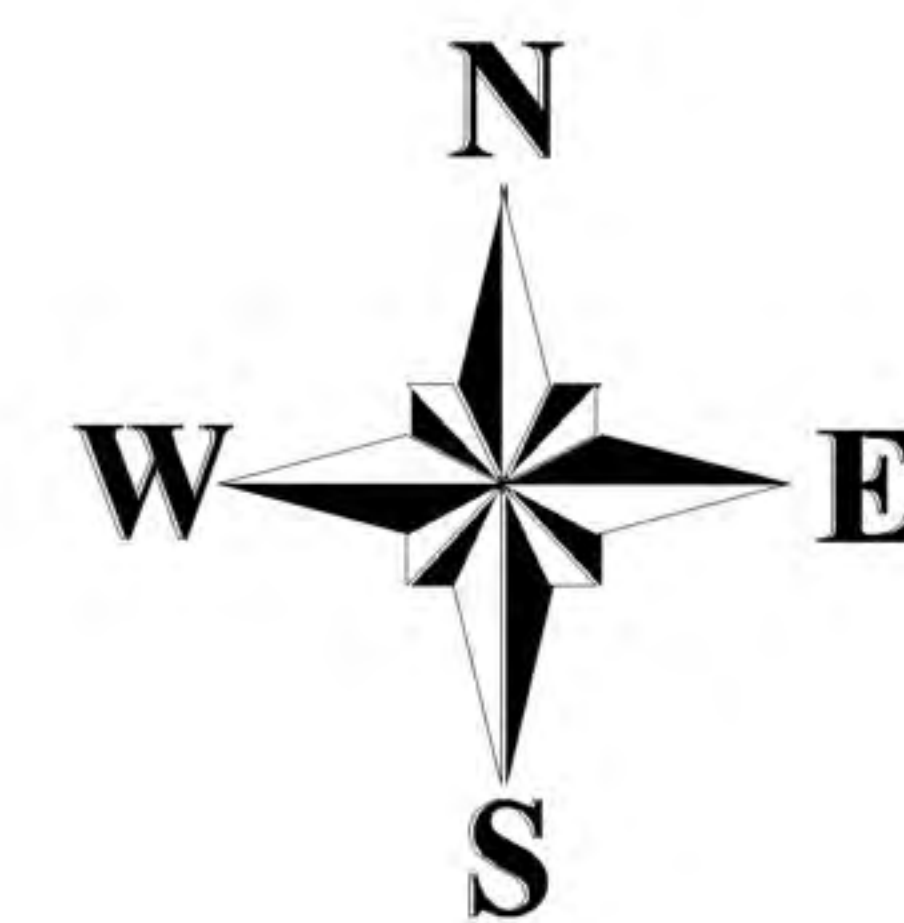
Index Map



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MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



DETAILED LANDSLIDE HAZARD MAP OF LA TRINIDAD, BENGUET PROVINCE, PHILIPPINES



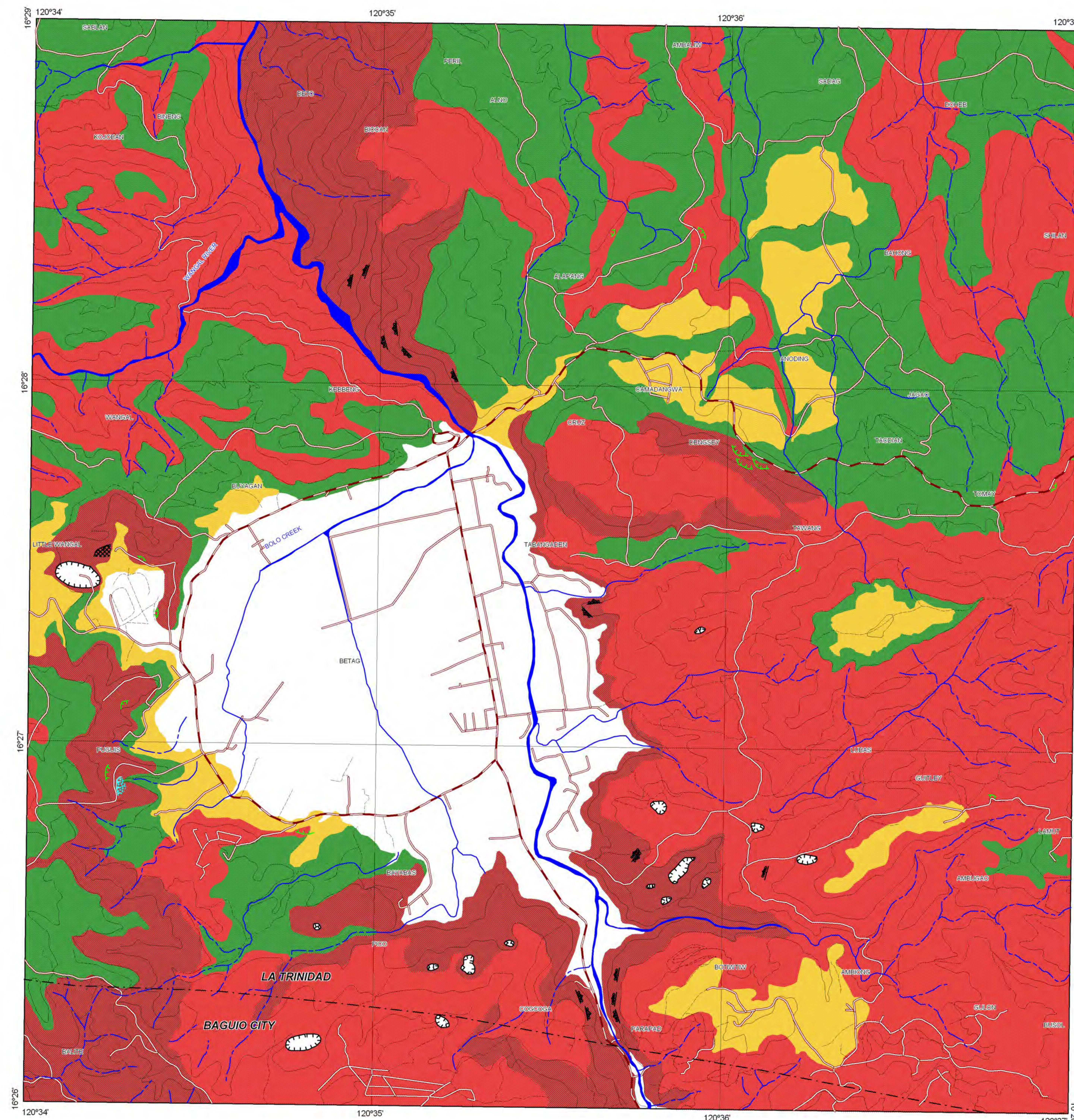
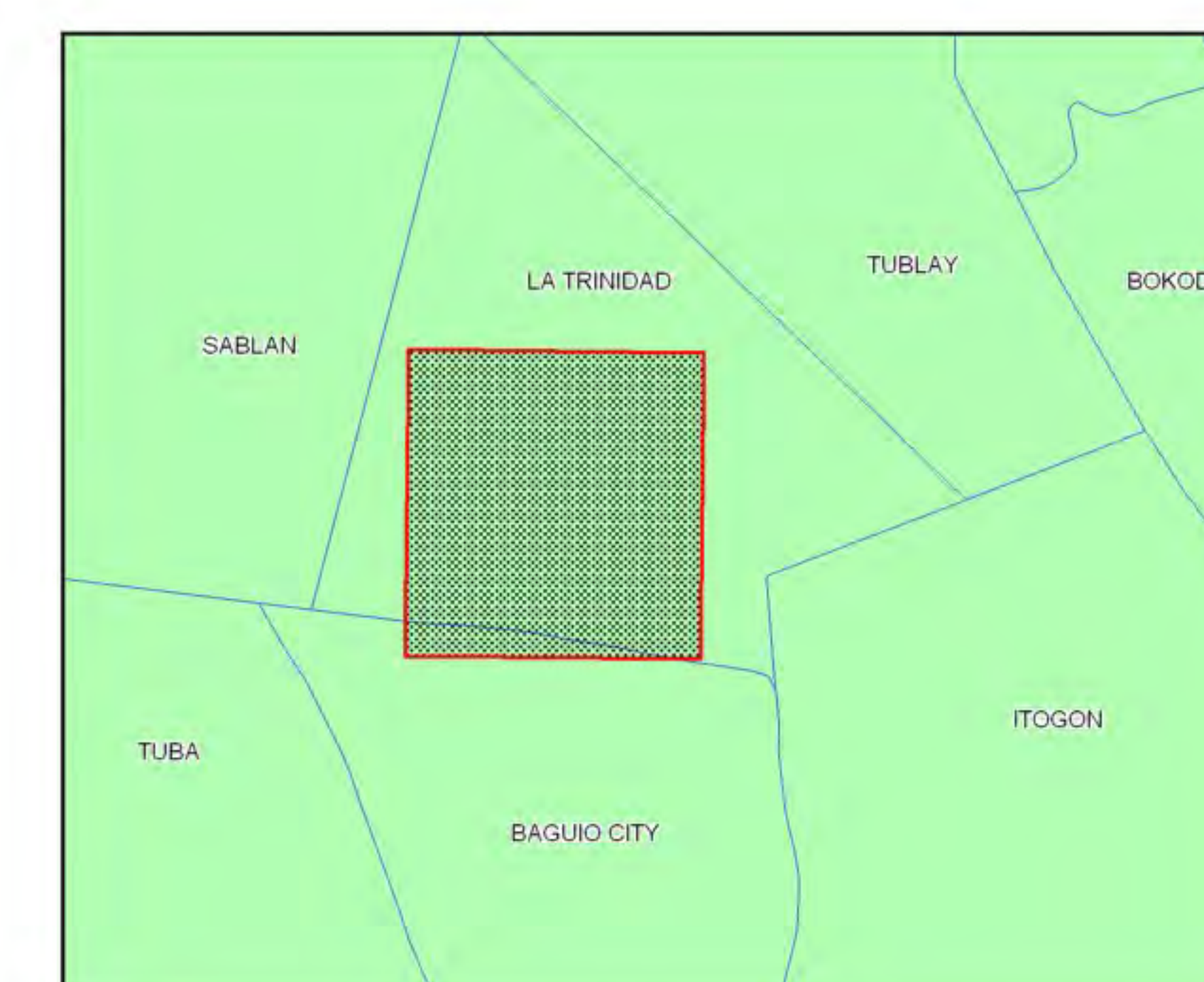
UTM Zone 51 Clarke 1866 Luzon Datum
MAPPING SCALE 1:10,000

LEGEND :

- High Landslide Susceptibility and Critical Areas**
Unstable areas, significant portions of which are affected by mass movements. Human initiated effects are usually high.
- High Landslide Susceptibility**
Unstable areas. Highly susceptible to mass movements.
- Moderate Landslide Susceptibility**
Stable areas with occasional and localized mass movement.
- Low Landslide Susceptibility**
Stable areas with no identified landslide scars, either inactive or active.
- Areas susceptible to ground subsidence/sinkhole development
- Areas susceptible to rockfall
- Recent landslide deposit
- Old landslide deposit
- Recent Escarpment
- River
- Roads

Base Map :
1:10,000 Scale Topographic Map
"La Trinidad Quadrangle"

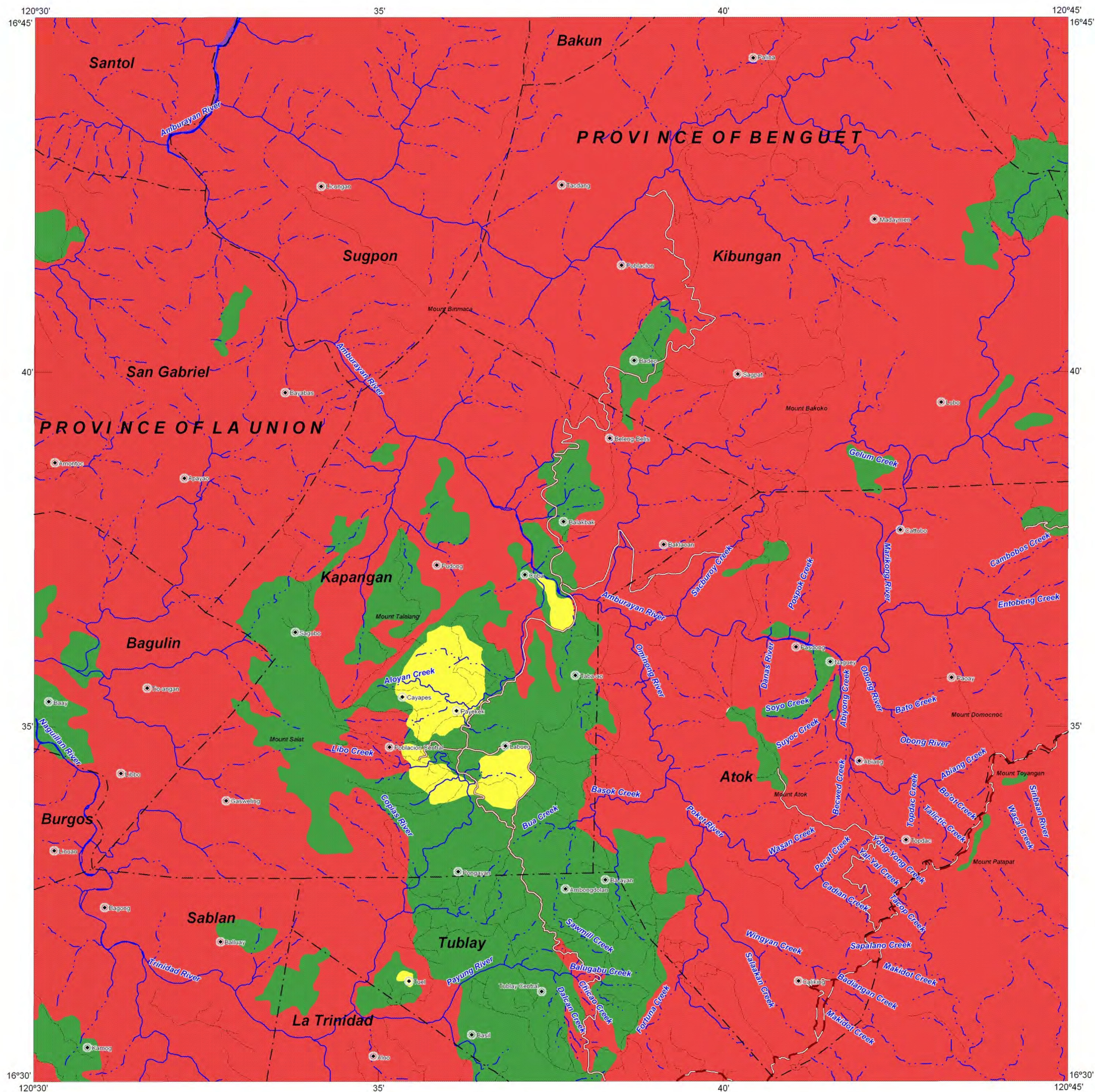
Index Map



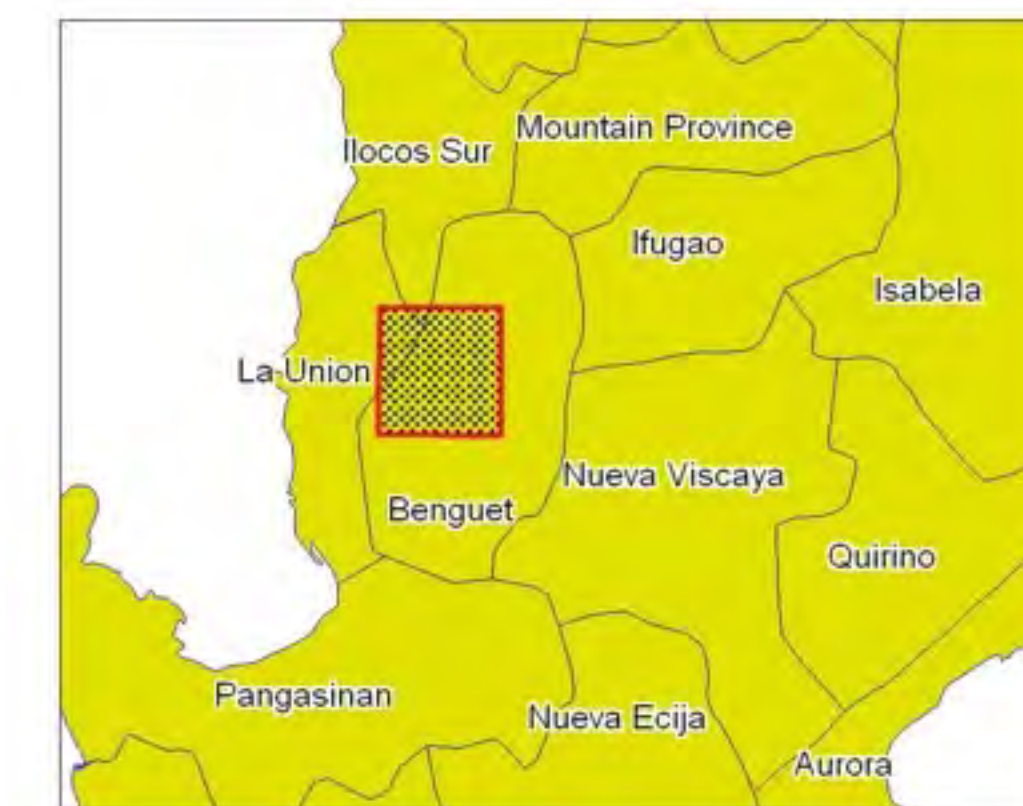
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION



LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF ATOK QUADRANGLE LA UNION AND BENGUET 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.

- Roads
- River
- Municipal boundary
- Barangay center location



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

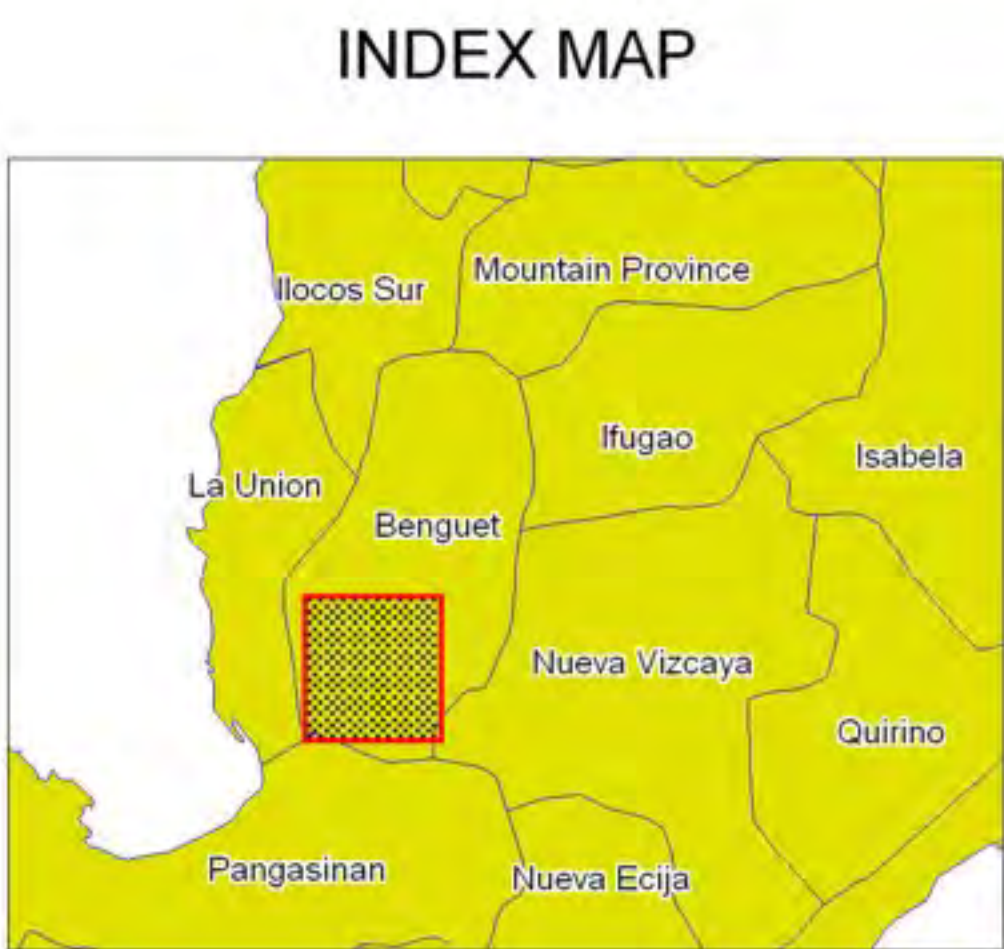
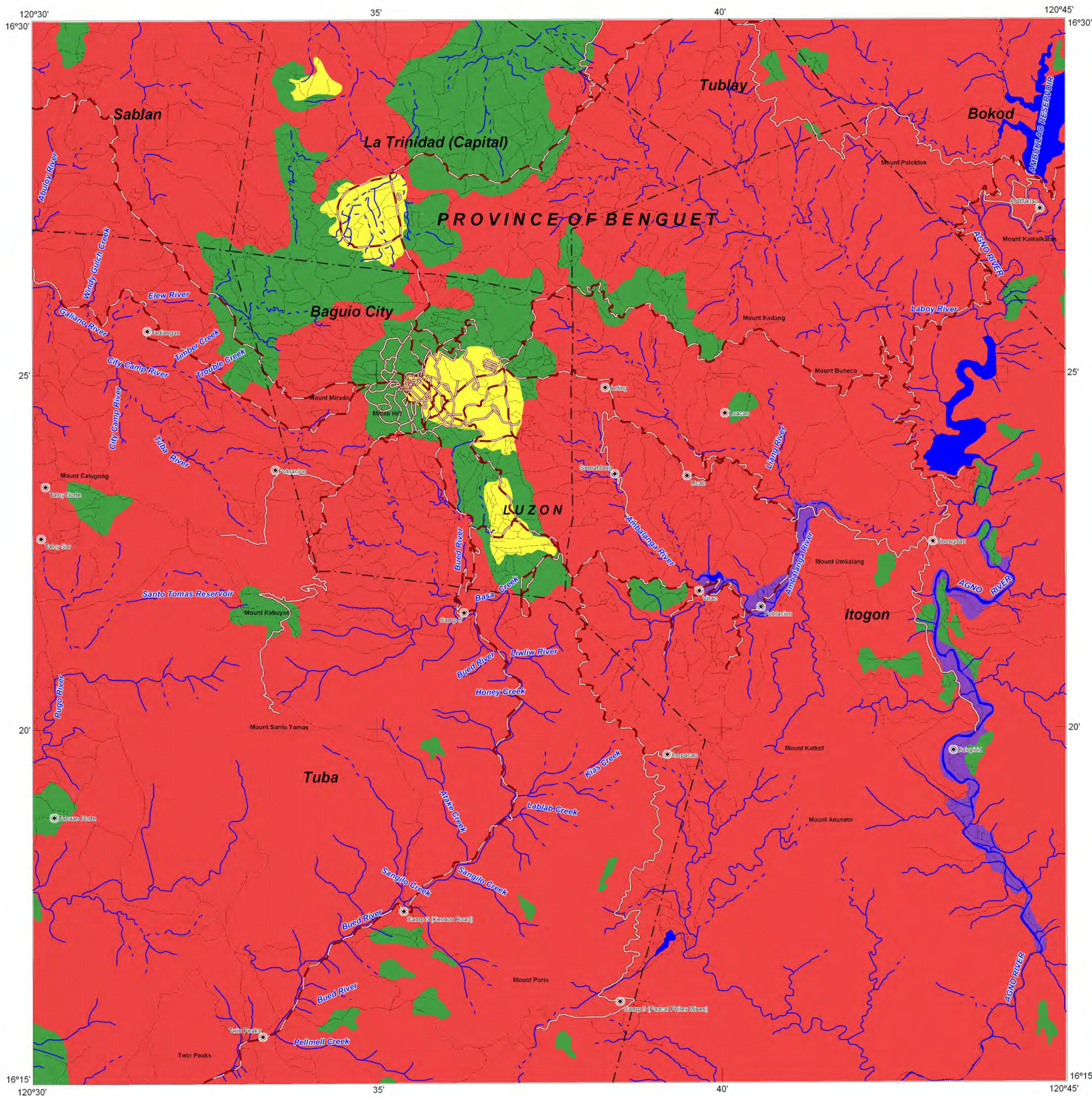
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB Region I and CAR

Base Map :
Sheet No. 7176 III "Atok Quadrangle"



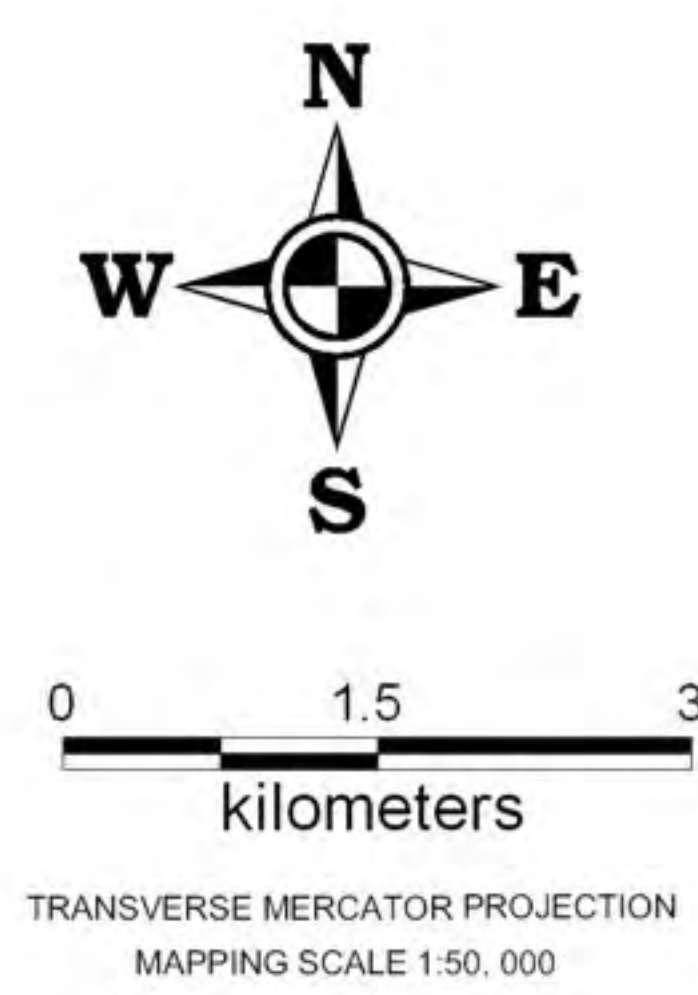
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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LANDS GEOLOGICAL SURVEY DIVISION

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF BAGUIO CITY QUADRANGLE, BENGUET PROVINCE, PHILIPPINES



- 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 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.

- Roads
- River
- Municipal boundary
- Barangay center location

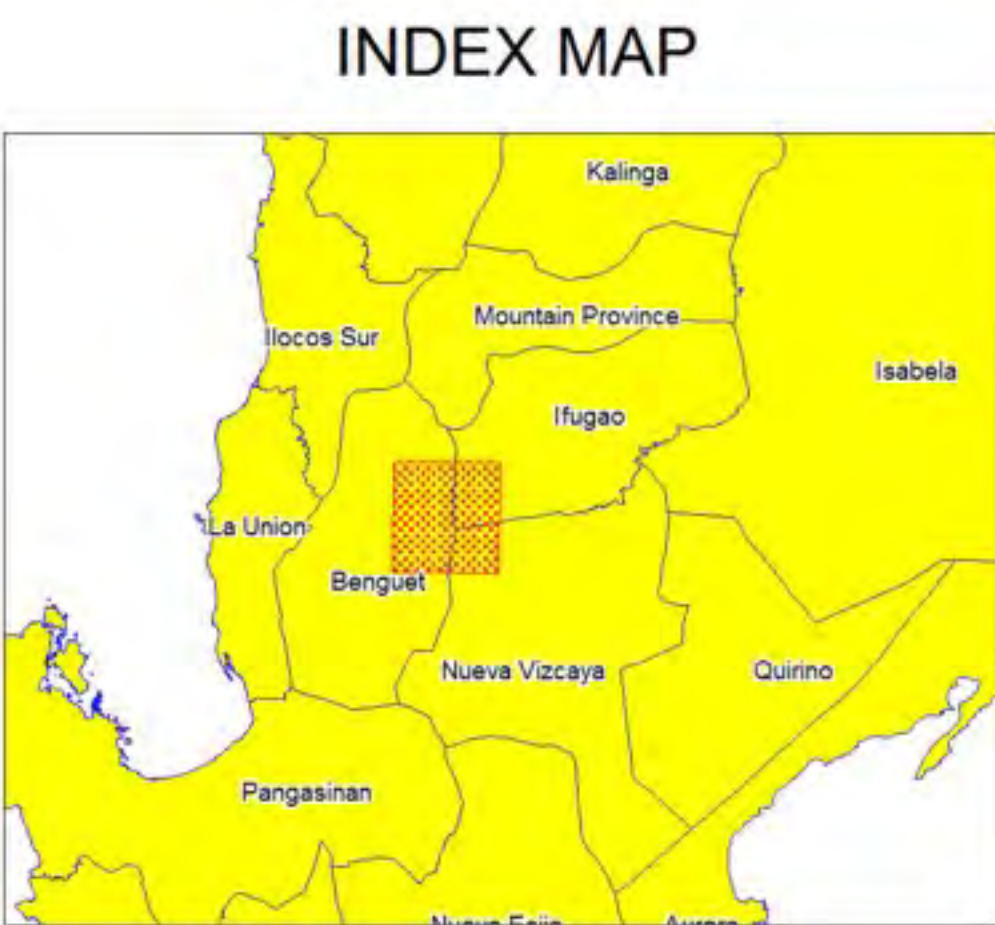
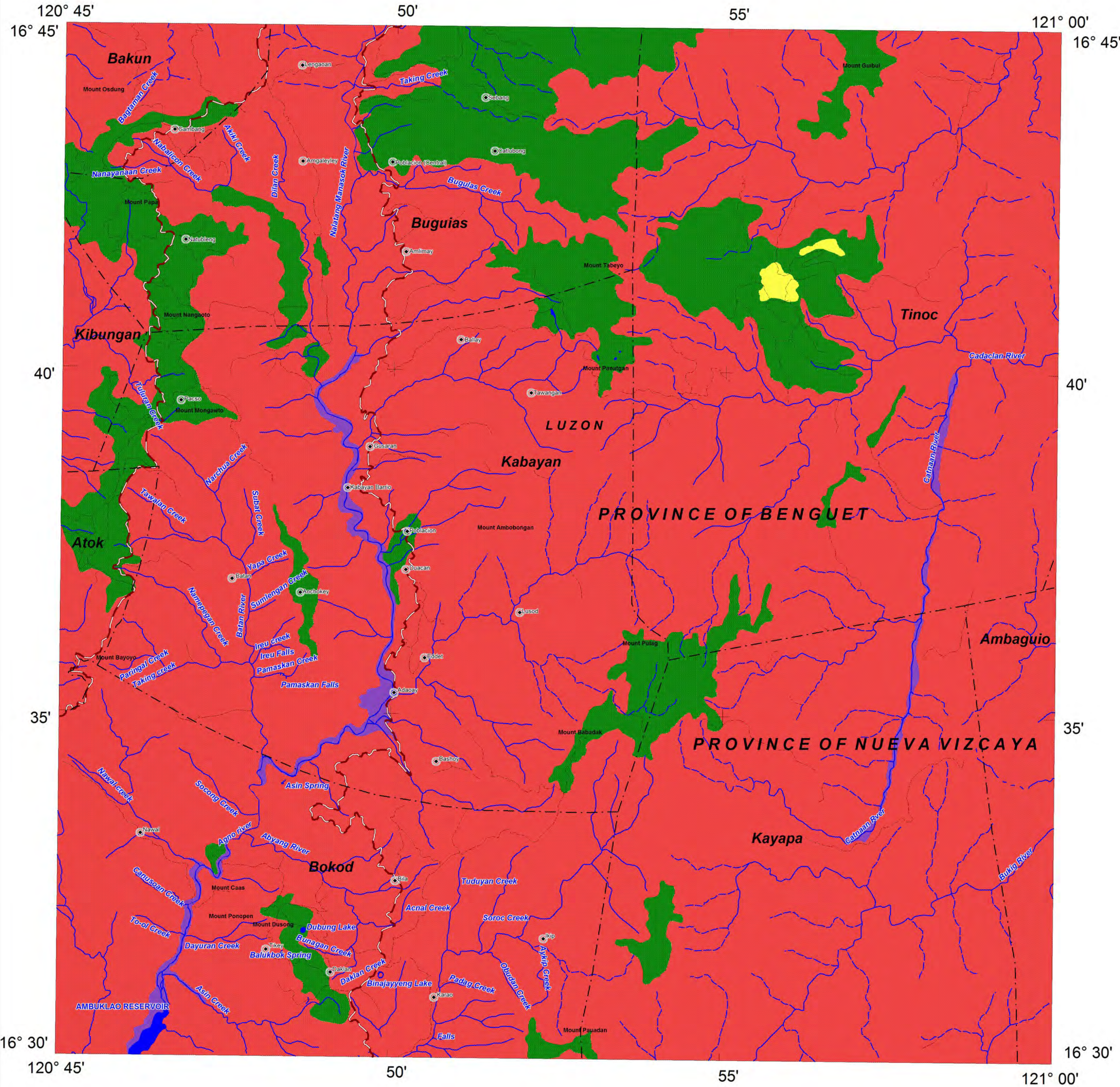


GIS Processing :
Lands Geological Survey Division

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

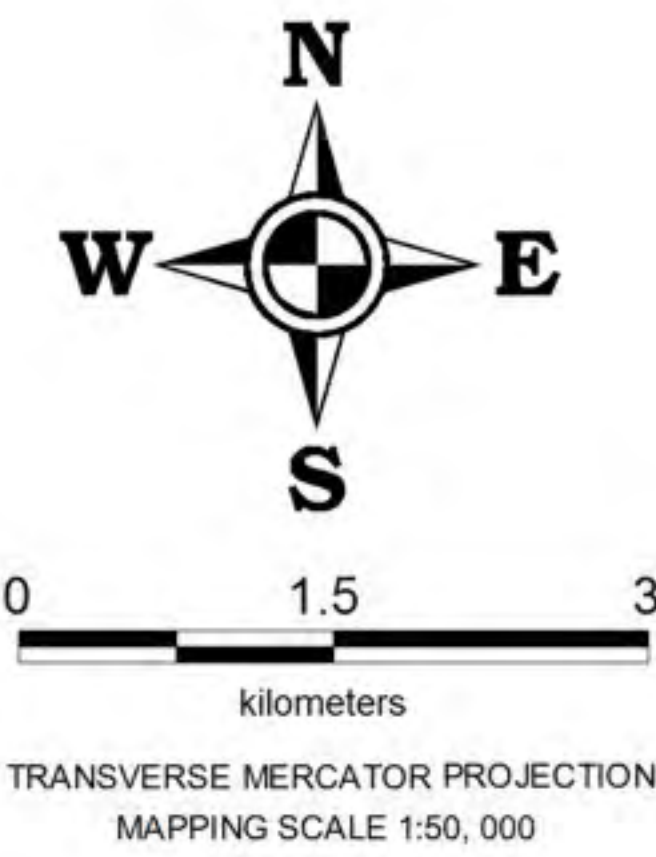
Base Map :
Sheet No. 7175 IV "Baguio City Quadrangle"

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF KABAYAN QUADRANGLE IFUGAO, NUEVA VIZCAYA, AND BENGUET PROVINCES, PHILIPPINES



- 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.

- Main Road
- Trail
- River
- Municipal boundary
- Barangay center location



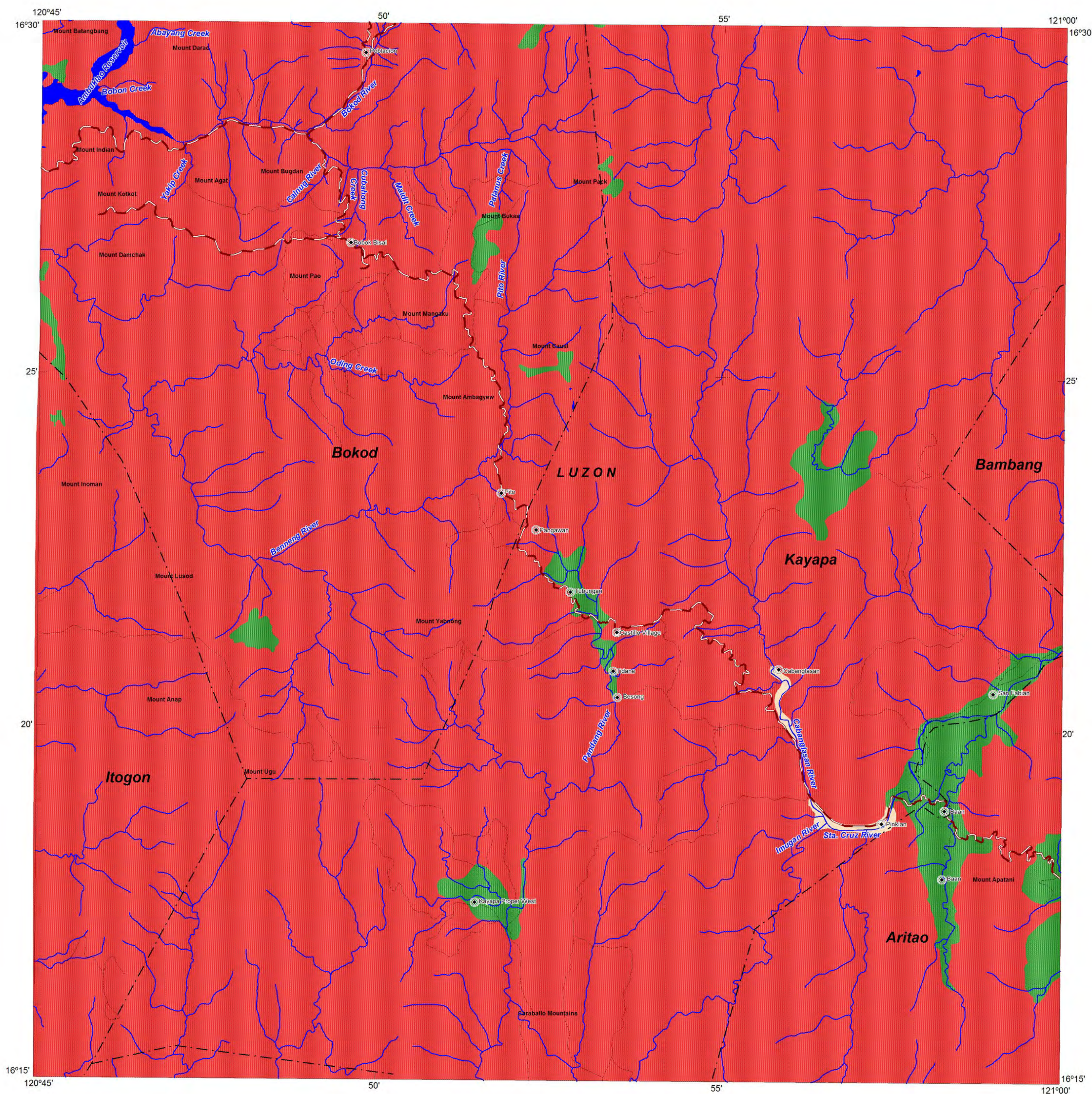
GIS Processing :
Lands Geological Survey Division

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

Base Map :
Sheet No. 7176 II "Kabayan Quadrangle"

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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LANDS GEOLOGICAL SURVEY DIVISION

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF KAYAPA QUADRANGLE, NUEVA VIZCAYA AND BENGUET 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 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



0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50,000

GIS Processing :
Lands Geological Survey Division

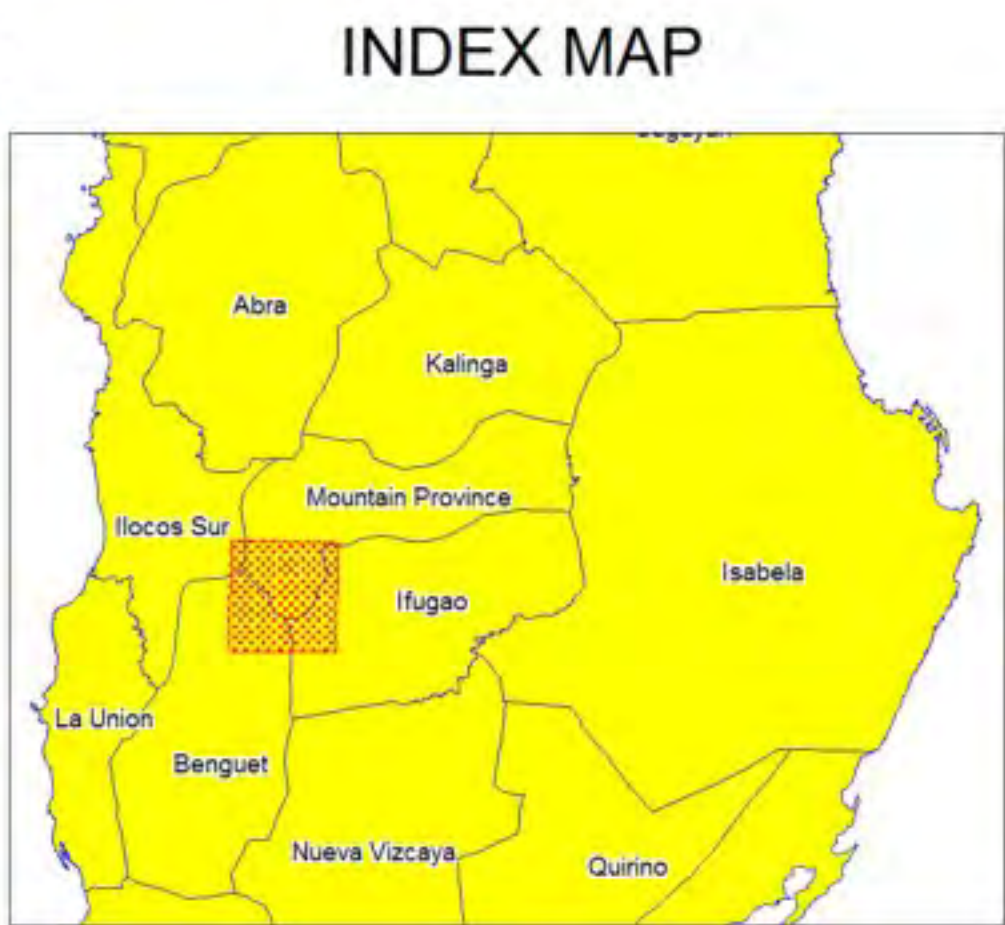
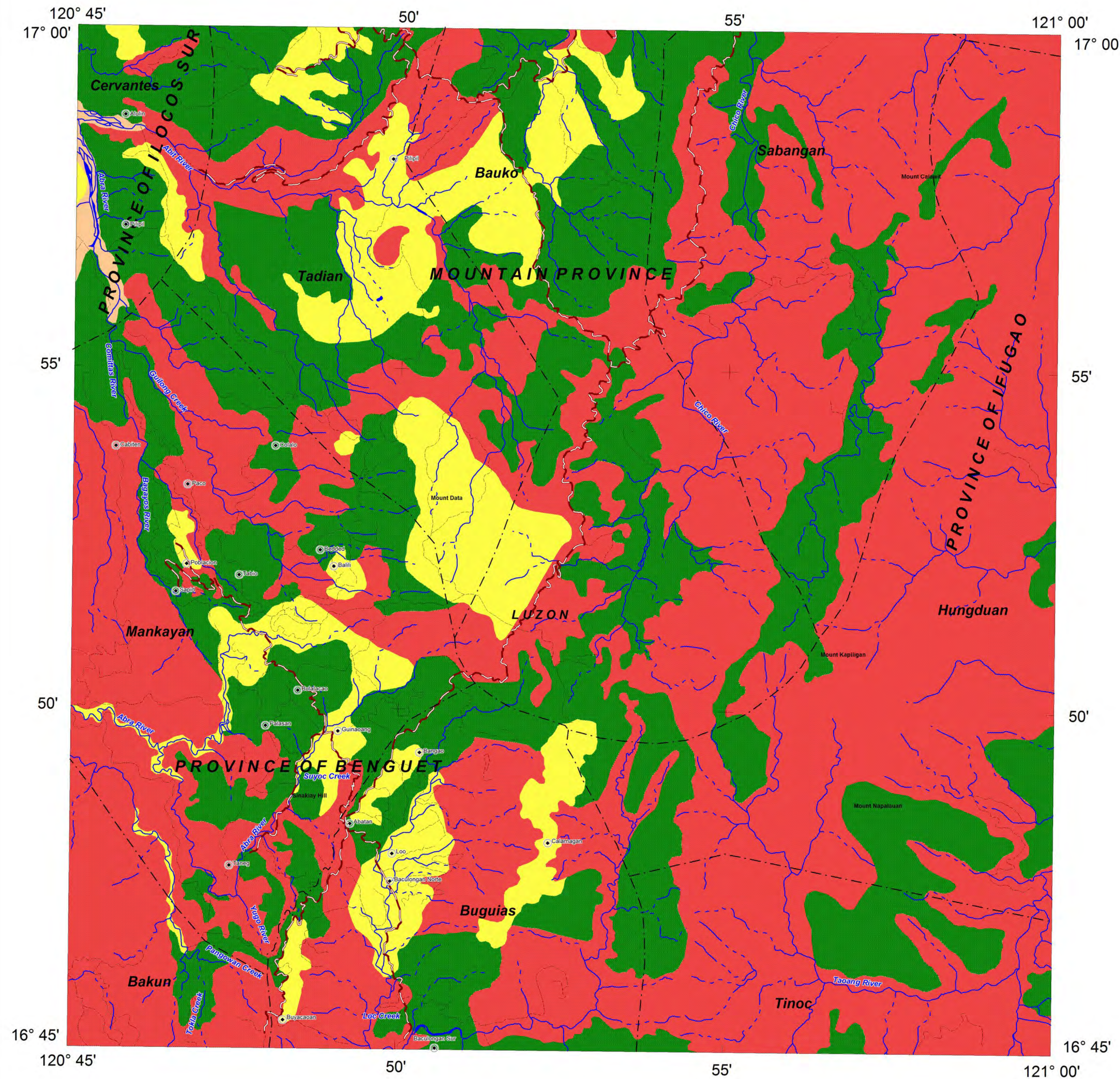
Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB Region II and CAR

Base Map :
Sheet No. 7175 I "Kayapa Quadrangle"



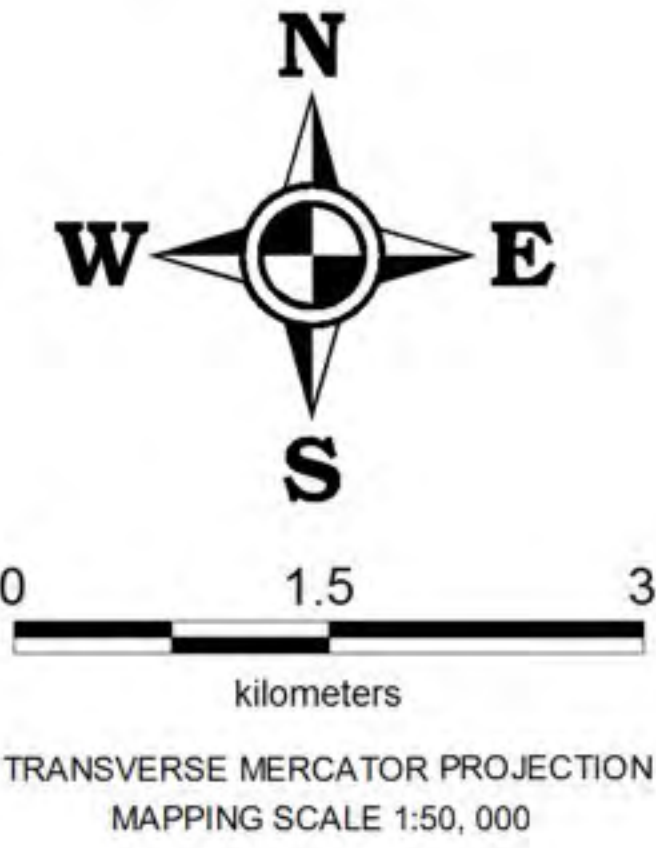
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF MANKAYAN QUADRANGLE MOUNTAIN PROVINCE, IFUGAO, ILOCOS SUR, AND BENGUET PROVINCES, PHILIPPINES



- 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.

- Main Road
- Trail
- River
- Municipal boundary
- Barangay center location



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 CAR

Base Map :
Sheet No. 7176 I "Mankayan Quadrangle"

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LANDS GEOLOGICAL SURVEY DIVISION