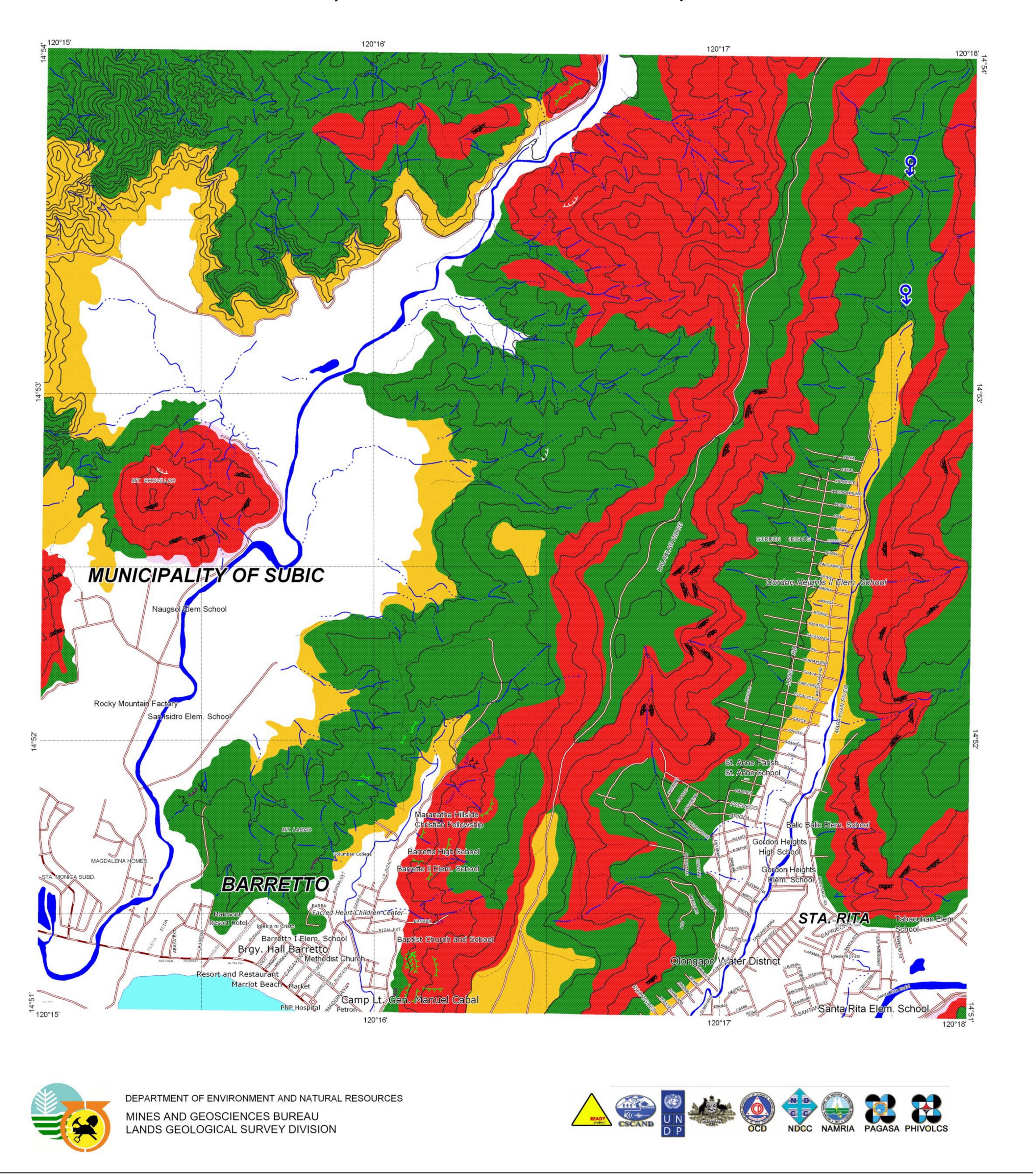
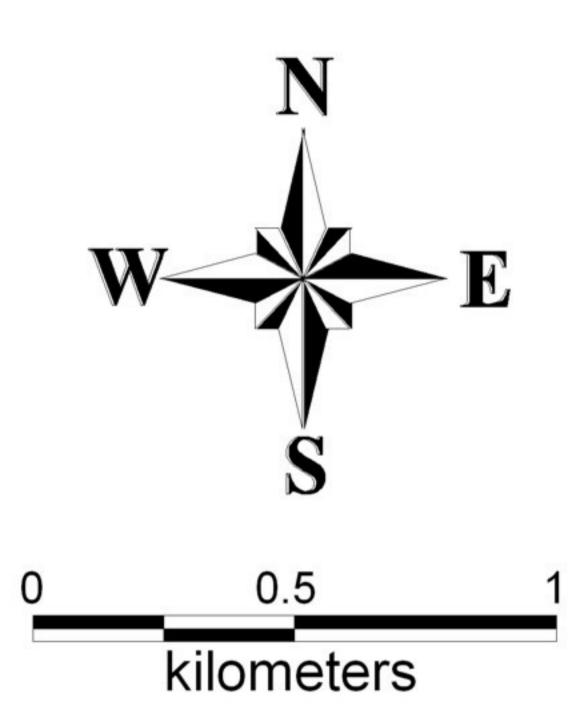
LANDSLIDE SUSCEPTIBILITY MAP OF BARRETTO QUADRANGLE, ZAMBALES PROVINCE, PHILIPPINES





UTM Zone 51 Clarke 1866 Luzon Datum

MAPPING SCALE 1:10,000

LEGEND:

High Landslide Susceptibility
Unstable areas, Highly susceptible

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.

Possible Landslide Debris Accumulation Zone

Areas where landslide debris could accumulate.

Areas susceptible to rockfall

Recent escarpment

Old escarpment

With mitigating measure

Soil Creep

Flashflood Exit Point

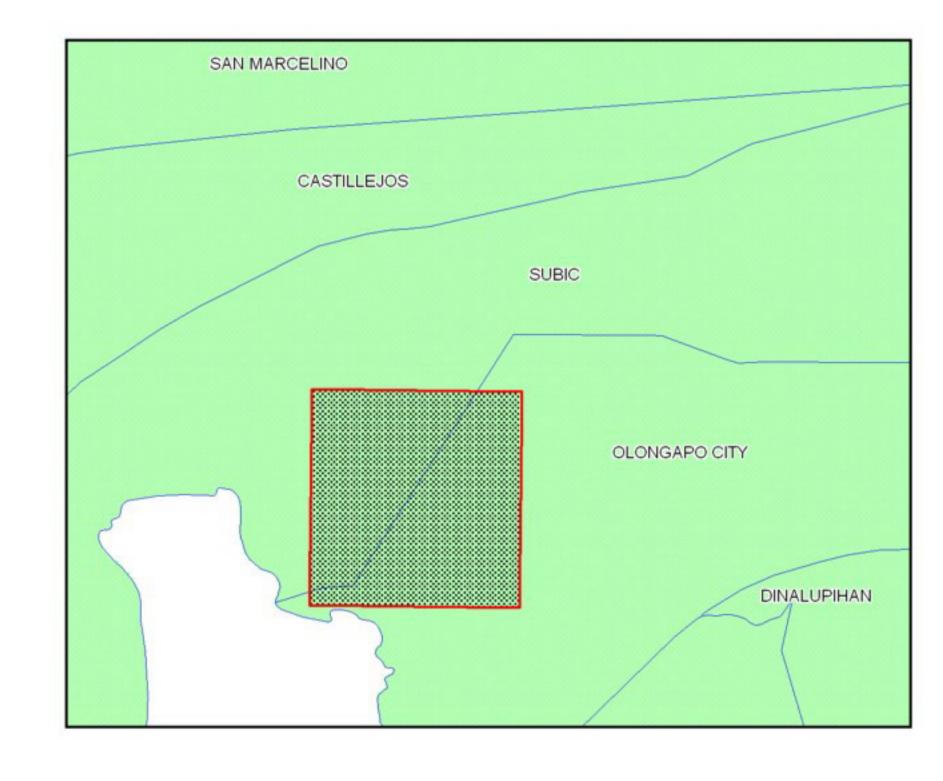
River

Roads

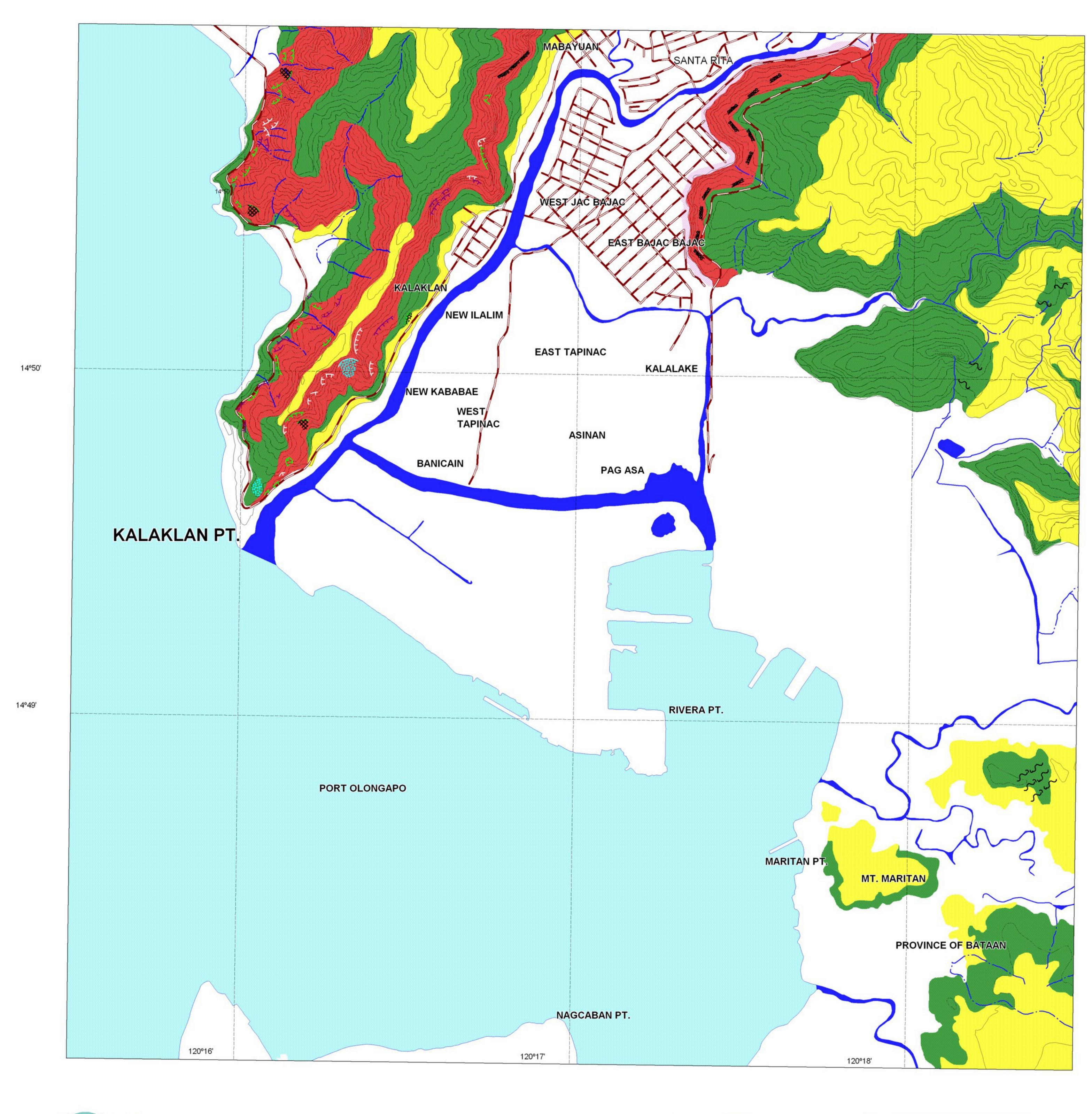
Base Map :

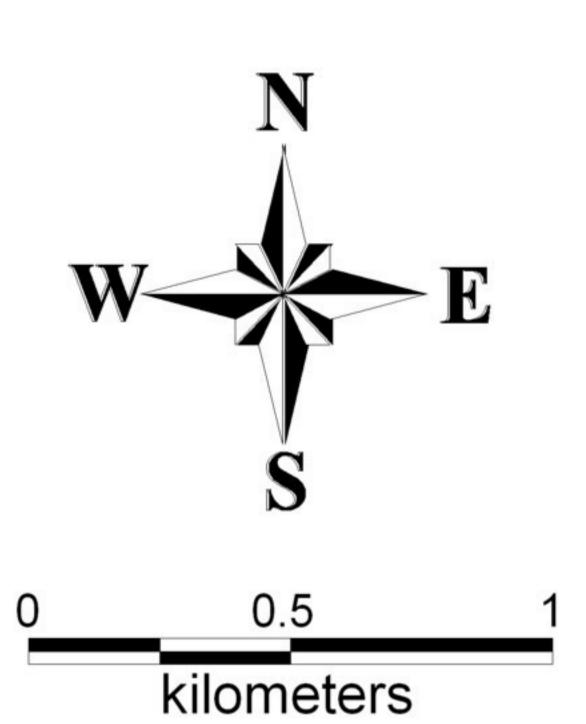
1:10, 000 Topographic Map "Barretto Quadrangle"

Index Map



LANDSLIDE SUSCEPTIBILITY MAP OF OLONGAPO CITY QUADRANGLE, ZAMBALES PROVINCE, PHILIPPINES





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

LEGEND:

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.

Possible Landslide Debris Accumulation Zone Areas where landslide debris could accumulate.

Areas susceptible to rockfall

Recent landslide deposit

With mitigating measures

Old landslide deposit

Old escarpment

Recent Escarpment

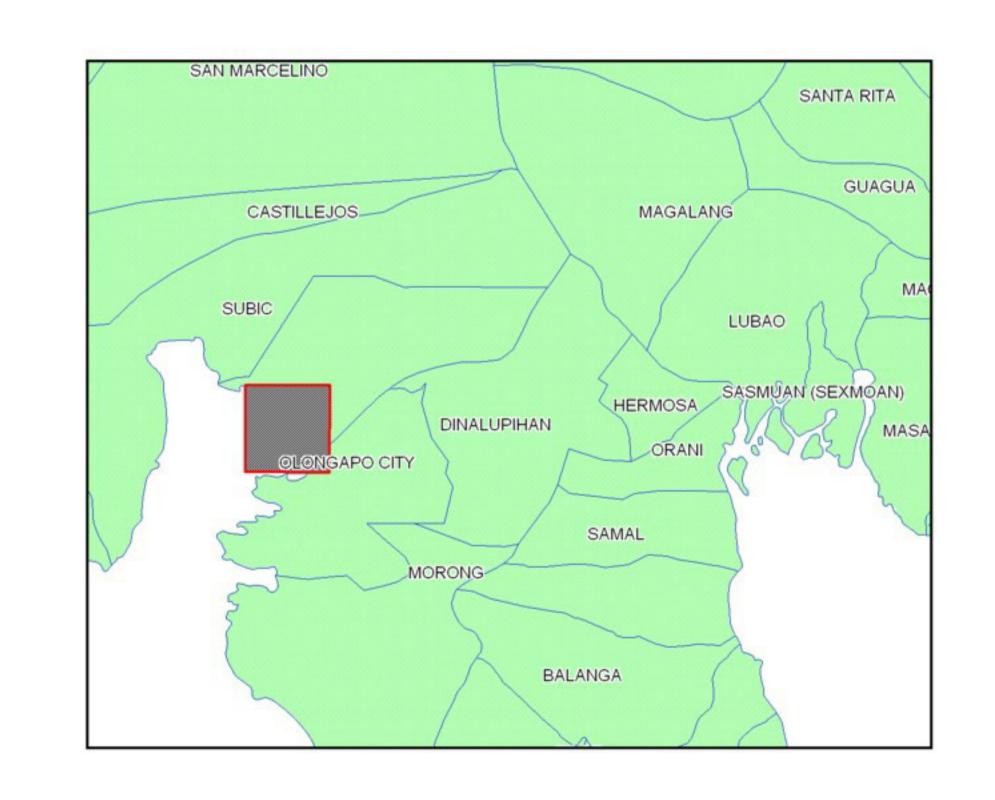
Soil Creep River

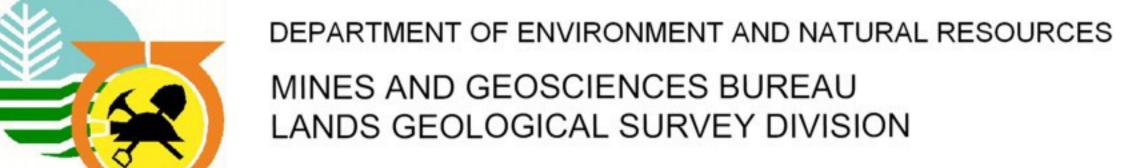
Roads

Base Map:

1:10, 000 Topographic Map "Olongapo City Quadrangle"

Index Map











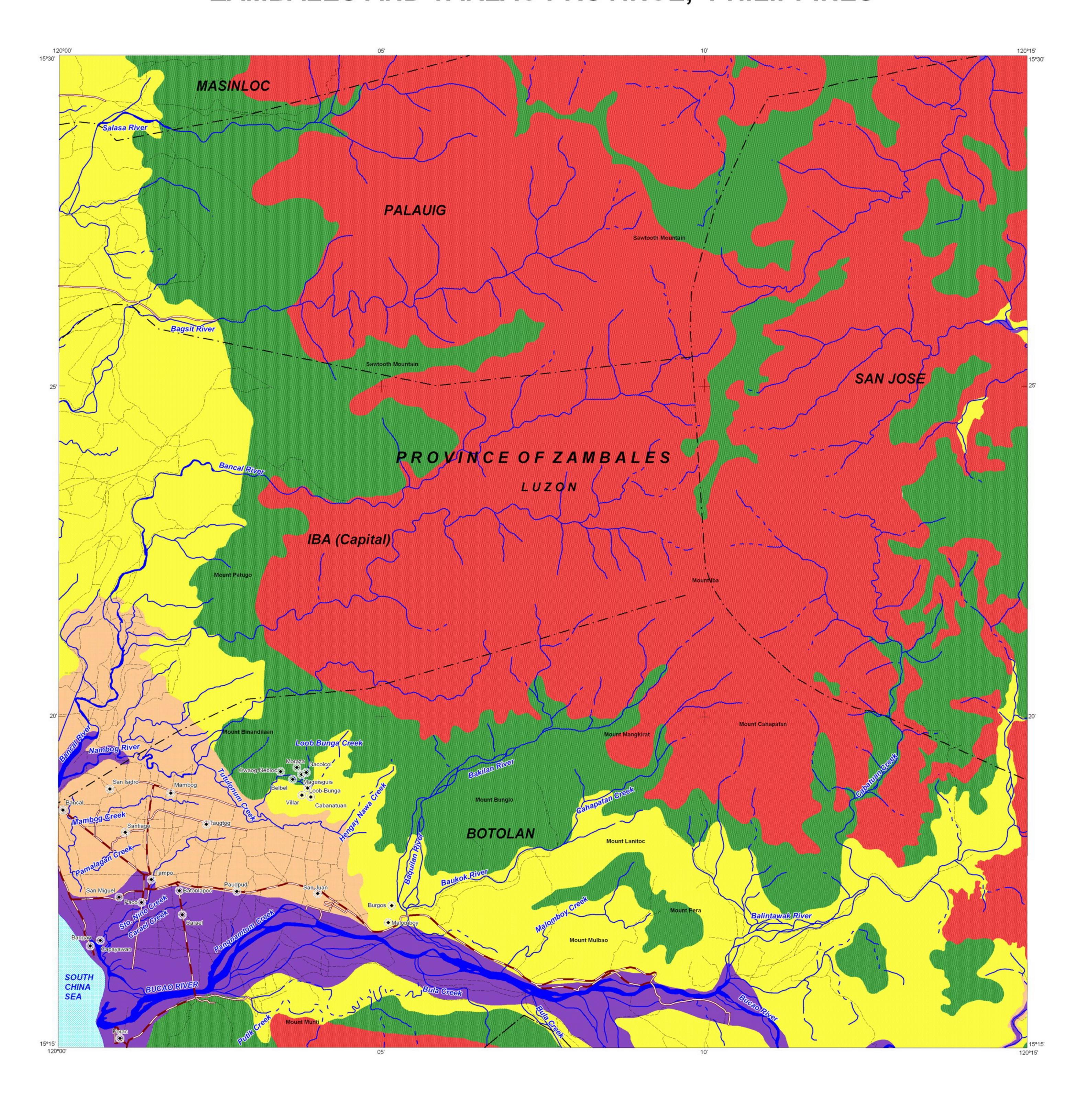








LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF BOTOLAN QUADRANGLE, ZAMBALES AND TARLAC PROVINCE, PHILIPPINES



INDEX MAP



LEGEND:

High susceptibility to landslide

cracks that could 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

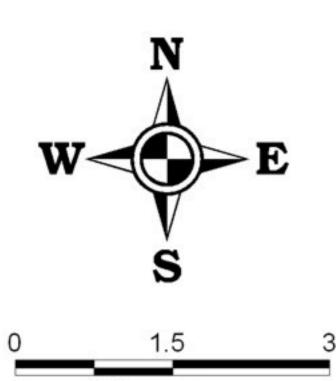
Areas with greater than 1 meter flood height. These areas are usually flooded for several hours during heavy rains; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.

Low to moderate susceptibility to flooding

Areas with less than 1 meter flood height. These are usually inundated during prolonged and extensive heavy rainfall or extreme weather condition.

Municipal boundary

Barangay center location



TRANSVERSE MERCATOR PROJECTION MAPPING SCALE 1:50, 000

GIS Processing: Lands Geological Survey Division

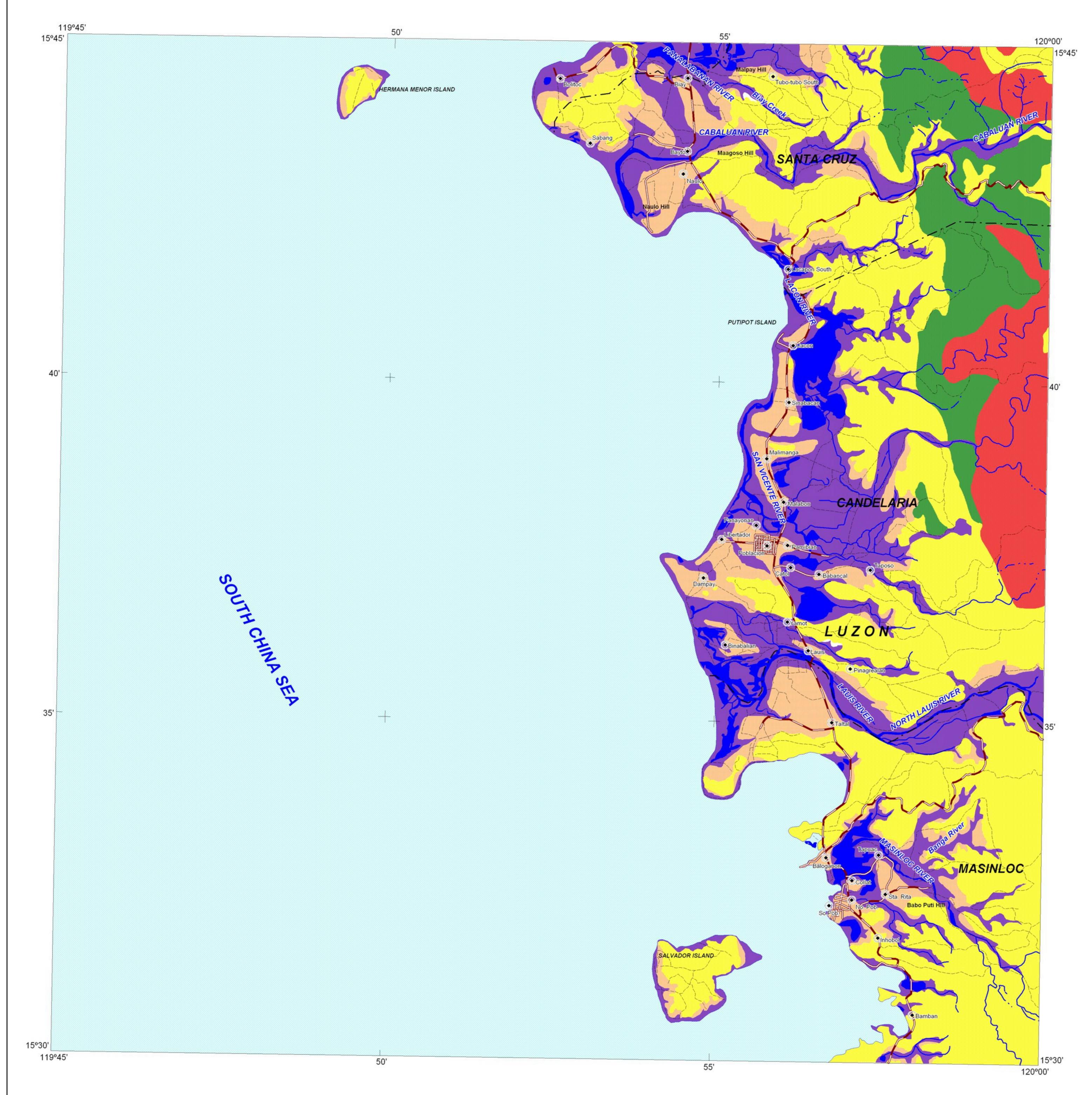
Data Sources:

MGB Geohazard Assessment Team Geological Database and Information Systems Section Lands Geological Survey Division Geosciences Division MGB RO III

Sheet No. 7073 IV "Botolan Quadrangle"



LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF MASINLOC QUADRANGLE, ZAMBALES PROVINCE, PHILIPPINES



INDEX MAP



LEGEND:

High Susceptibility to Landslide

cracks that could directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly

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.

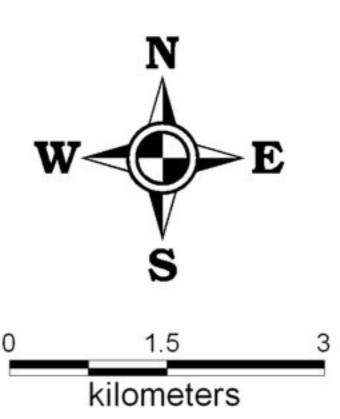
Low to moderate susceptibility to flooding

Areas with less than 1 meter flood height. These are usually inundated during prolonged and extensive heavy rainfall or extreme weather condition.

Roads

Municipal boundary

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 III

Base Map: Sheet No.6974 I "Masinloc Quadrangle"



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

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF MOUNT LANAT QUADRANGLE PANGASINAN AND ZAMBALES PROVINCE, PHILIPPINES

INDEX MAP

