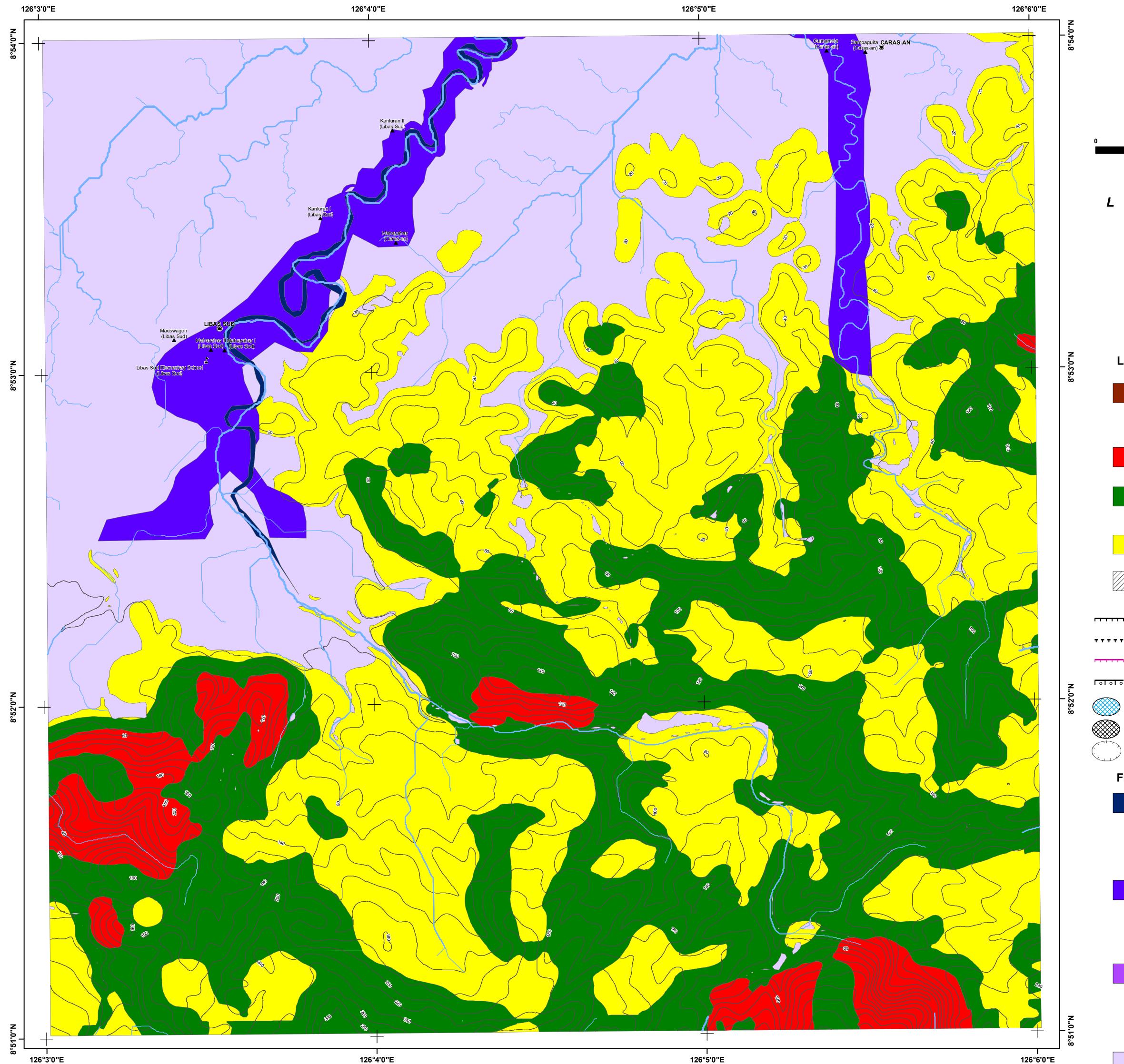


# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF TAGO AND SAN MIGUEL, SURIGAO DEL SUR, PHILIPPINES 4218-IV-12 CARASAN QUADRANGLE





DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES **MINES AND GEOSCIENCES BUREAU** North Avenue, Diliman, Quezon City

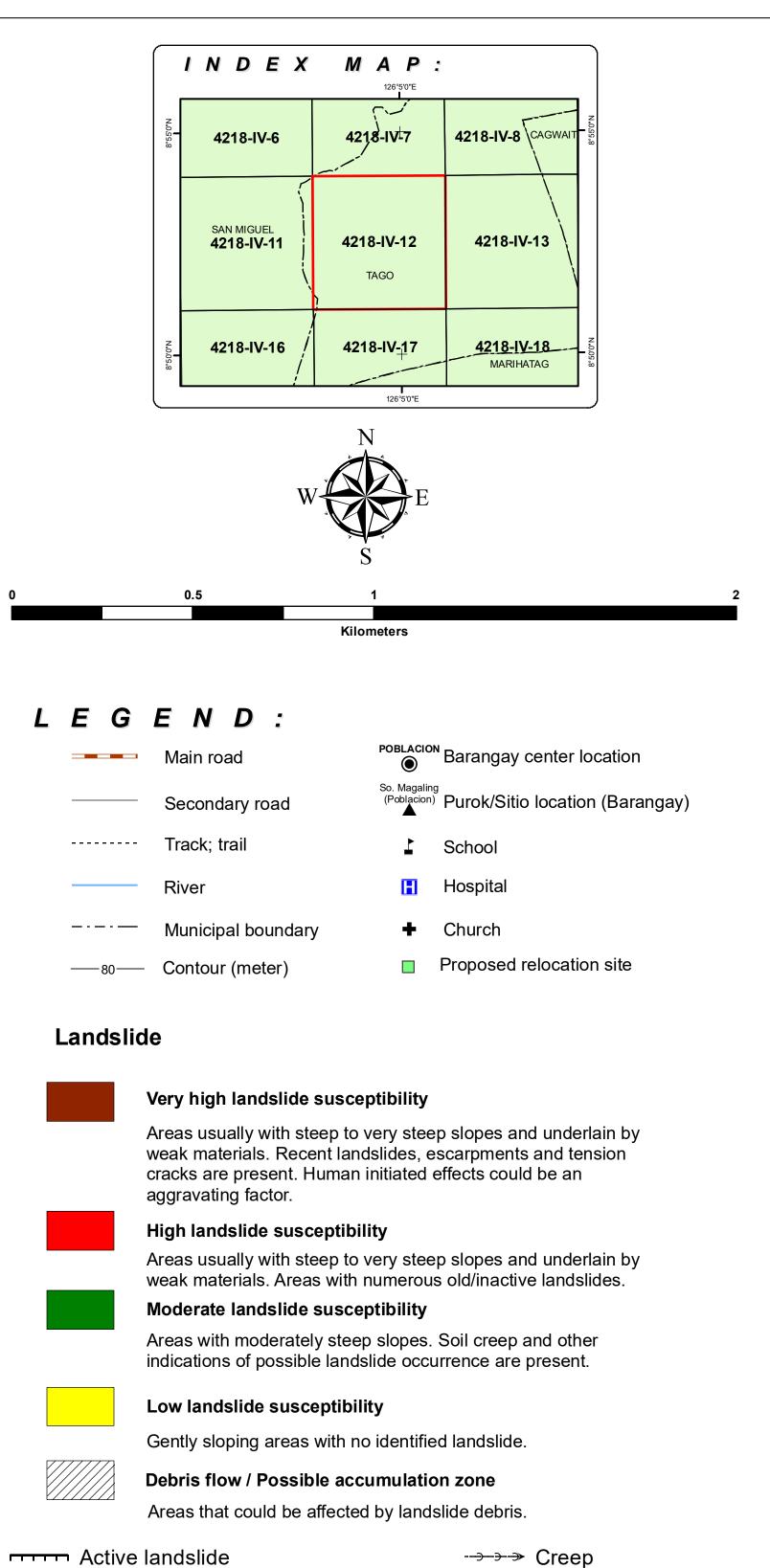
**Data Sources :** MGB Geohazard Assessment Team Lands Geological Survey Division Geosciences Division MGB Regional Office XIII National Mapping and Resource Information Authority

ALL RIGHTS RESERVED **PUBLISHED DECEMBER 2015**  GIS Processing :

## Coordinate System :

Spheroid :.... Clark 1866 Datum :..... Luzon 1911

Mapping scale 1:10,000



- TTTT Inactive landslide Tension crack Landslide area with mitigating measure  $\rightarrow \rightarrow \rightarrow$  Gully **Riverbank erosion Fototo** Rock fall/Rock slide prone area
  - Old landslide deposits
  - Recent landslide deposits
  - Areas susceptible to ground subsidence/sinkhole development

## Flood

### Very high flood susceptibility

Areas likely to experience flood heights of greater than 2 meters and/or flood duration of more than 3 days. 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 area along river banks; also prone to flashfloods.

### High flood susceptibility

Areas likely to experience flood heights of greater than 1 up to 2 meters and/or flood duration of more than 3 days. 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 area along river banks; also prone to flashfloods.

### Moderate flood susceptibility

Areas likely to experience flood heights of greater than 0.5m up to 1 meter and/or flood duration of 1 to 3 days. These areas are subject 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 flood susceptibility

Areas likely to experience flood heights of 0.5 meter or less and/or flood duration of less than 1 day. These areas include low hills and gentle slopes. They also have sparse to moderate drainage density.

#### Direction of rising floodwater Direction of receding floodwater



 $\overset{1.2}{\otimes}$  Flood depth (meter)

Flashflood exit point