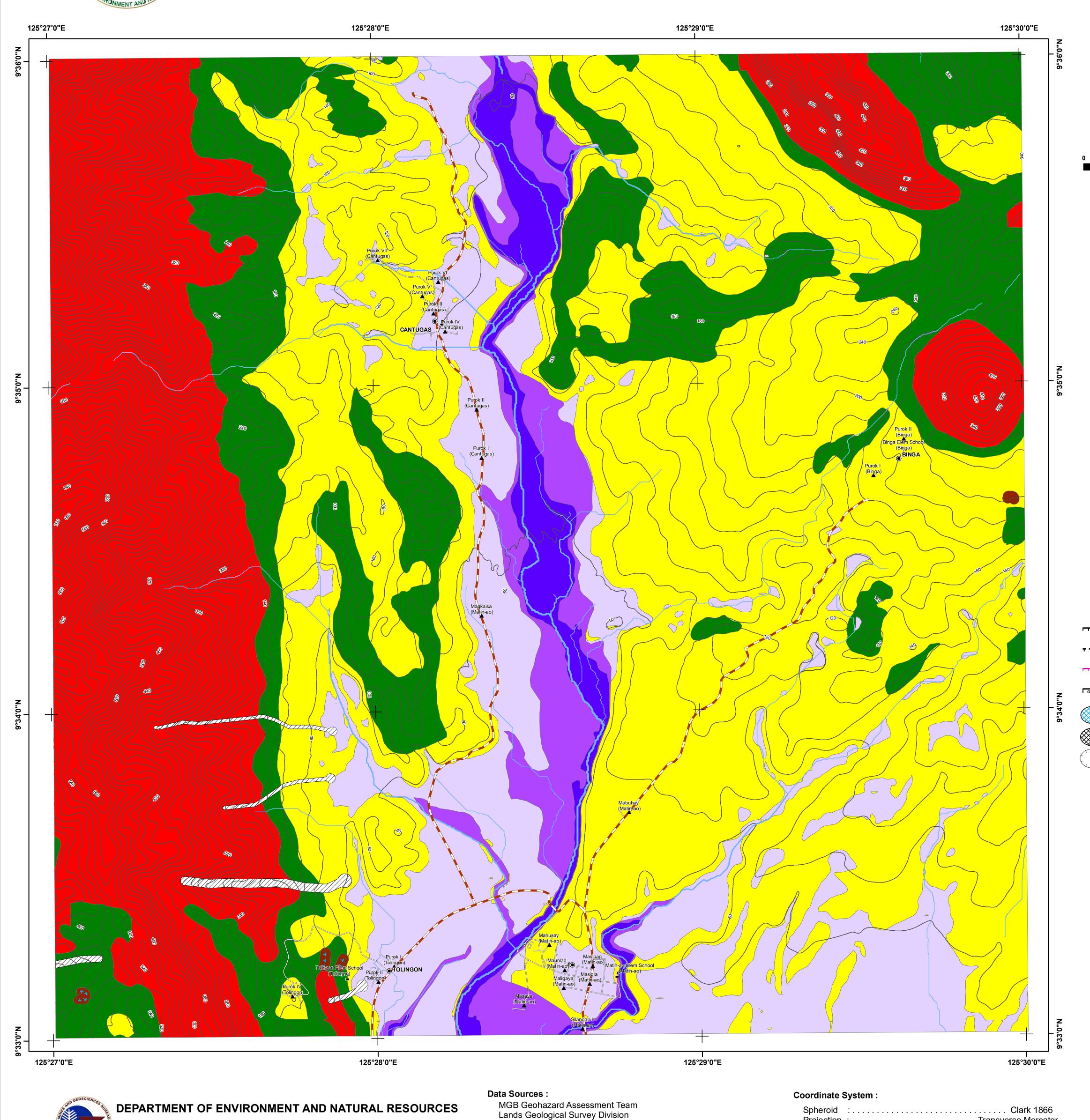
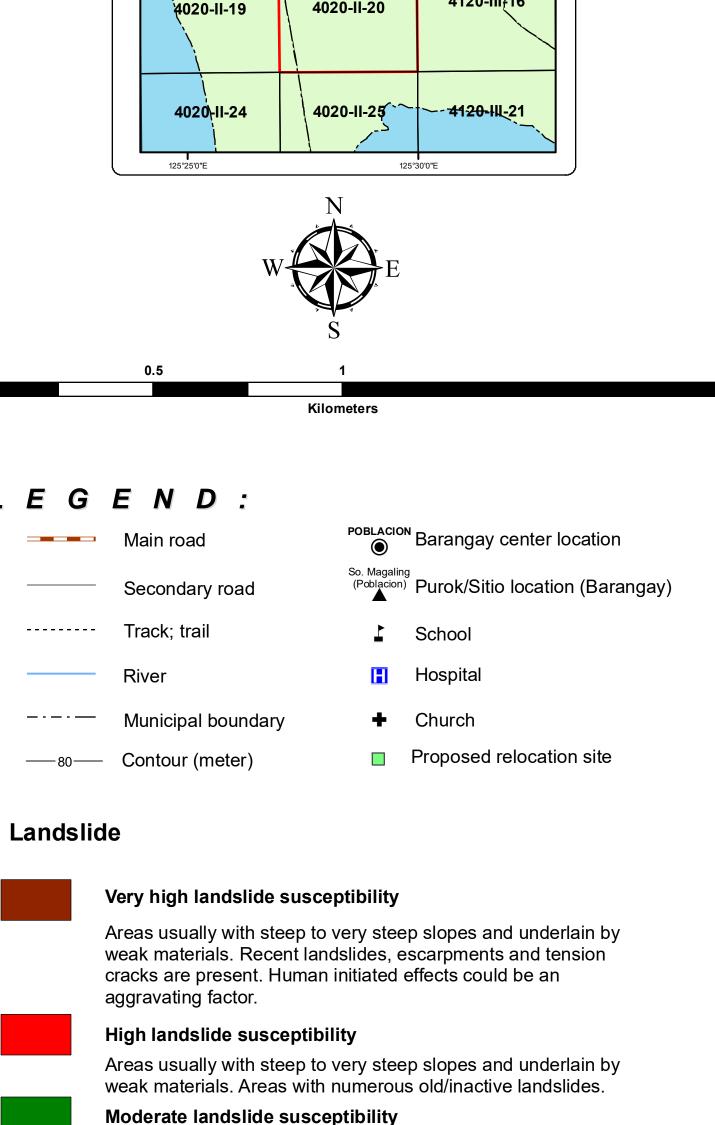


DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF MAINIT AND MALIMONO, SURIGAO DEL NORTE, PHILIPPINES 4020-II-20 CANTUGAS QUADRANGLE





INDEX MAP:

4020-II-15

4120-III-11

4120-III-16

4020-II-14

MALIMONO

Areas that could be affected by landslide debris. Active landslide -→->-> Creep

Gently sloping areas with no identified landslide.

Debris flow / Possible accumulation zone

Areas with moderately steep slopes. Soil creep and other indications of possible landslide occurrence are present.

דדדד Inactive landslide TTTT Tension crack Landslide area with mitigating measure \longrightarrow Gully

Low landslide susceptibility

Rock fall/Rock slide prone area Riverbank erosion 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.

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

High 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

^{1.2} ⊗ Flood depth (meter) Flashflood exit point

Projection:.....Transverse Mercator Geosciences Division MGB Regional Office XIII Datum :..... Luzon 1911 National Mapping and Resource Information Authority

Mapping scale 1:10,000 **GIS Processing:**

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MINES AND GEOSCIENCES BUREAU

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