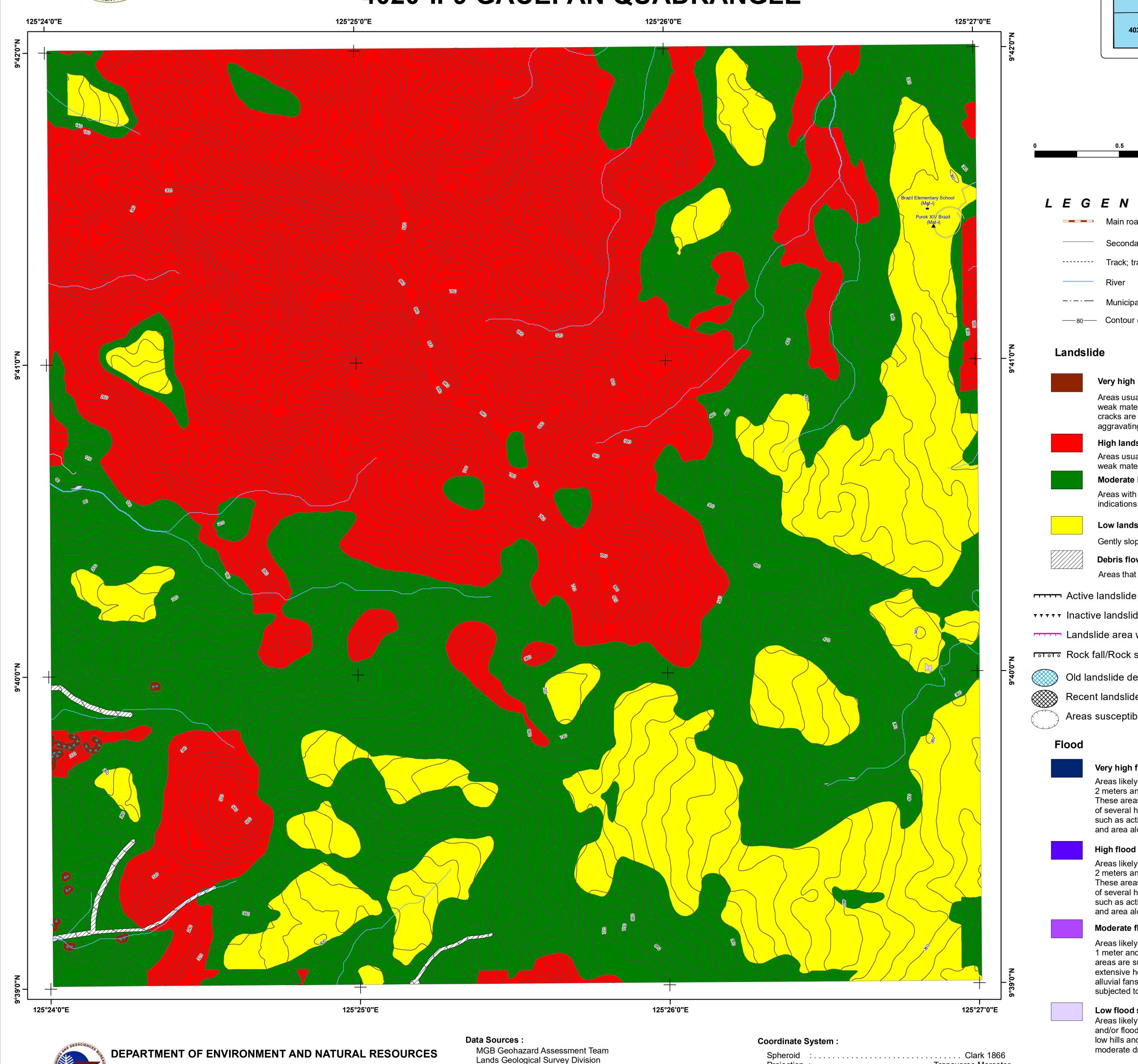


MINES AND GEOSCIENCES BUREAU

North Avenue, Diliman, Quezon City

ALL RIGHTS RESERVED PUBLISHED DECEMBER 2015

DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF MALIMONO, SISON, SAN FRANCISCO (ANAO-AON) AND SURIGAO CITY (CAPITAL), SURIGAO DEL NORTE, PHILIPPINES 4020-II-9 GACEPAN QUADRANGLE

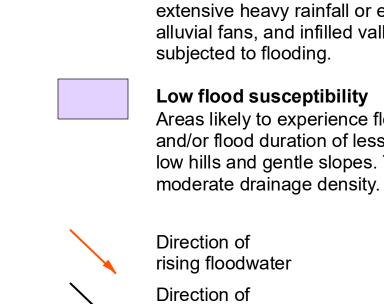


Geosciences Division MGB Regional Office XIII

Lands Geological Survey Division

GIS Processing:

National Mapping and Resource Information Authority



Projection:.....Transverse Mercator

Datum :..... Luzon 1911

Mapping scale 1:10,000

Very high landslide susceptibility Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor. High landslide susceptibility Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides. **Moderate landslide susceptibility** Areas with moderately steep slopes. Soil creep and other indications of possible landslide occurrence are present. Low landslide susceptibility Gently sloping areas with no identified landslide. **Debris flow / Possible accumulation zone** Areas that could be affected by landslide debris. -→->-> Creep דדדד Inactive landslide TTTT Tension crack Landslide area with mitigating measure \longrightarrow Gully Rock fall/Rock slide prone area Riverbank erosion Old landslide deposits Recent landslide deposits Areas susceptible to ground subsidence/sinkhole development 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 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 ^{1.2} ⊗ Flood depth (meter) Flashflood exit point receding floodwater

INDEX MAP:

MALIMONO 4020-II-14

4020-II-13

Track: trail

Landslide

Flood

4020-II-10

(Poblacion) Purok/Sitio location (Barangay)