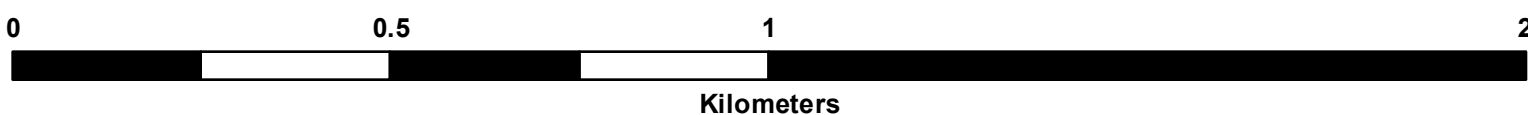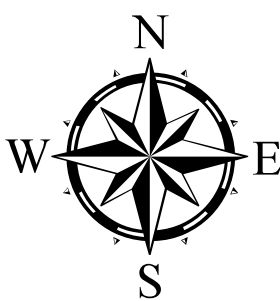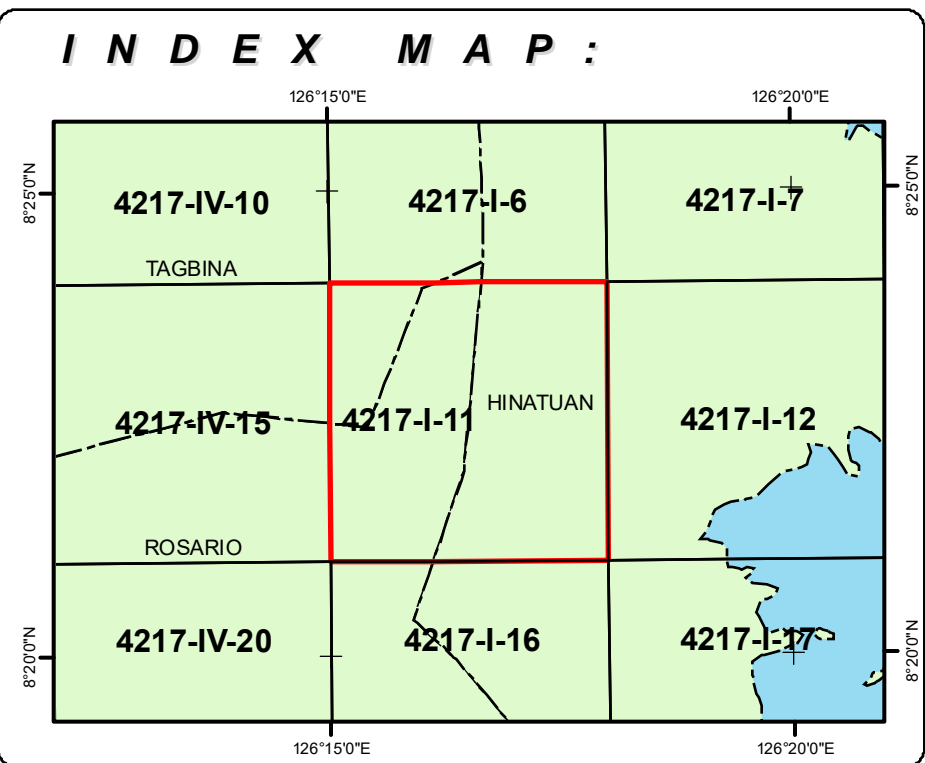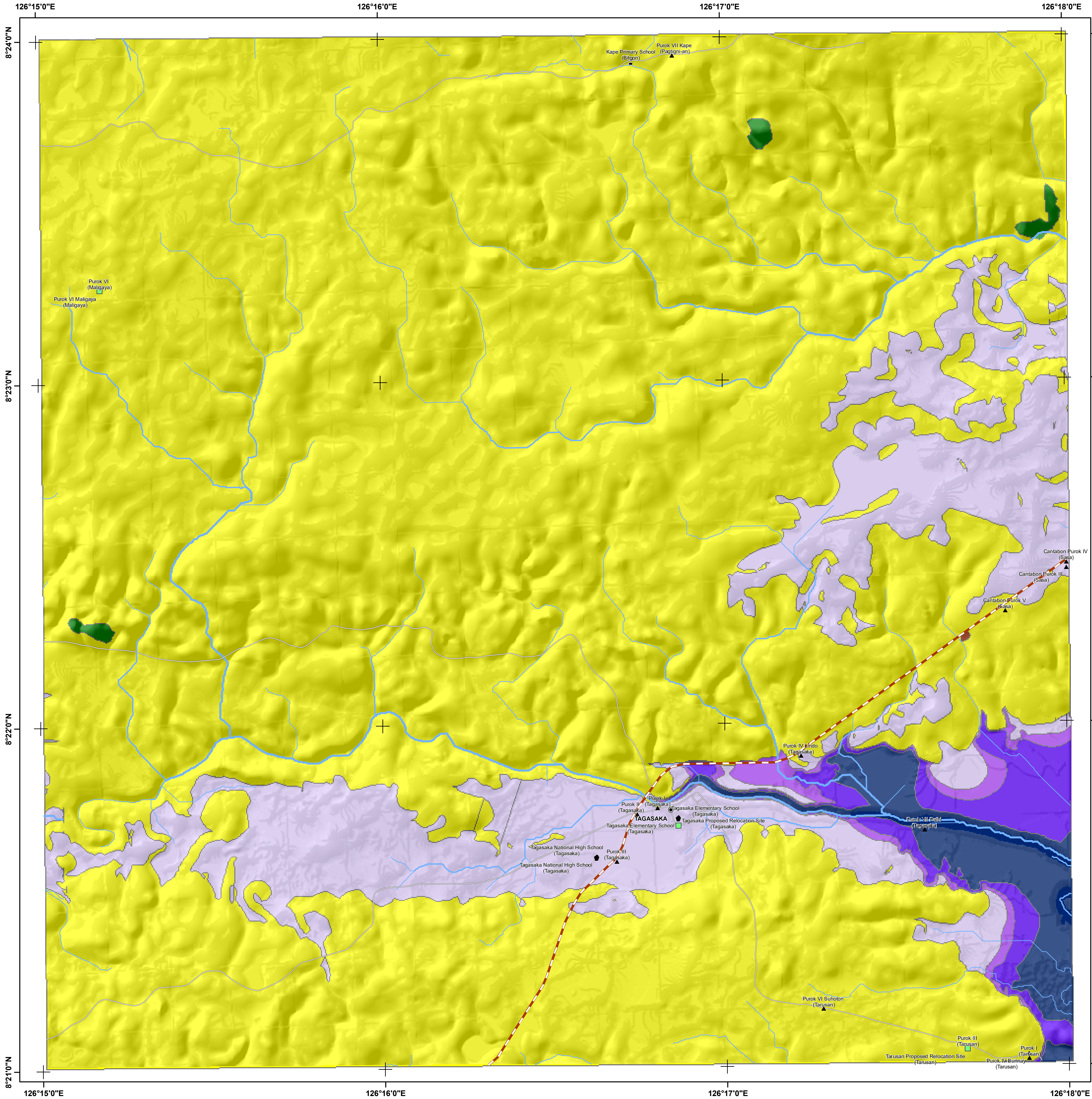# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF HINATUAN AND TAGBINA, SURIGAO DEL SUR; AND ROSARIO, AGUSAN DEL SUR, PHILIPPINES
4217-I-11 MARFIL QUADRANGLE

N
W — E
S

0   0.5   1   2
Kilometers

LEGEND :

Main road	POBLACION ● Barangay center location
Secondary road	So. Magaling (Poblacion) ▲ Purok/Sitio location (Barangay)
Track; trail	School
River	Hospital
Municipal boundary	Church
—80— Contour (meter)	Proposed relocation site

Landslide

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.

Active landslide	Creep
Inactive landslide	Tension crack
Landslide area with mitigating measure	Gully
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.

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
Flood depth (meter)
Flashflood exit point

Map labels: Purok VII Kape (Pagtoon-an), Kape Primary School (Bagon), Purok VI (Malgaya), Purok VI Malgaya (Malgaya), Cantabon Purok IV (Gaga), Cantabon Purok III (Sosa), Cantabon Purok V (Gaga), Purok IV Kisdo (Tagasaka), Purok I (Tagasaka), Tagasaka Elementary School (Tagasaka), TAGASAKA, Tagasaka Proposed Relocation Site (Tagasaka), Purok II (Tagasaka), Tagasaka National High School (Tagasaka), Purok II Fisfel (Tigom-an), Purok VI Suhoton (Tarusan), Purok III (Tarusan), Purok I (Tarusan), Purok IV Burinay (Tarusan), Tarusan Proposed Relocation Site (Tarusan)

Coordinates: 126°15'0"E, 126°16'0"E, 126°17'0"E, 126°18'0"E, 8°24'0"N, 8°23'0"N, 8°22'0"N, 8°21'0"N