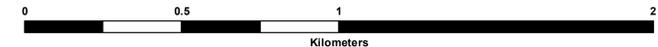
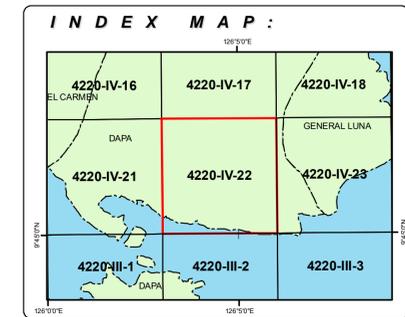




DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF DAPA, SURIGAO DEL NORTE, PHILIPPINES 4220-IV-22 OSMEÑA QUADRANGLE



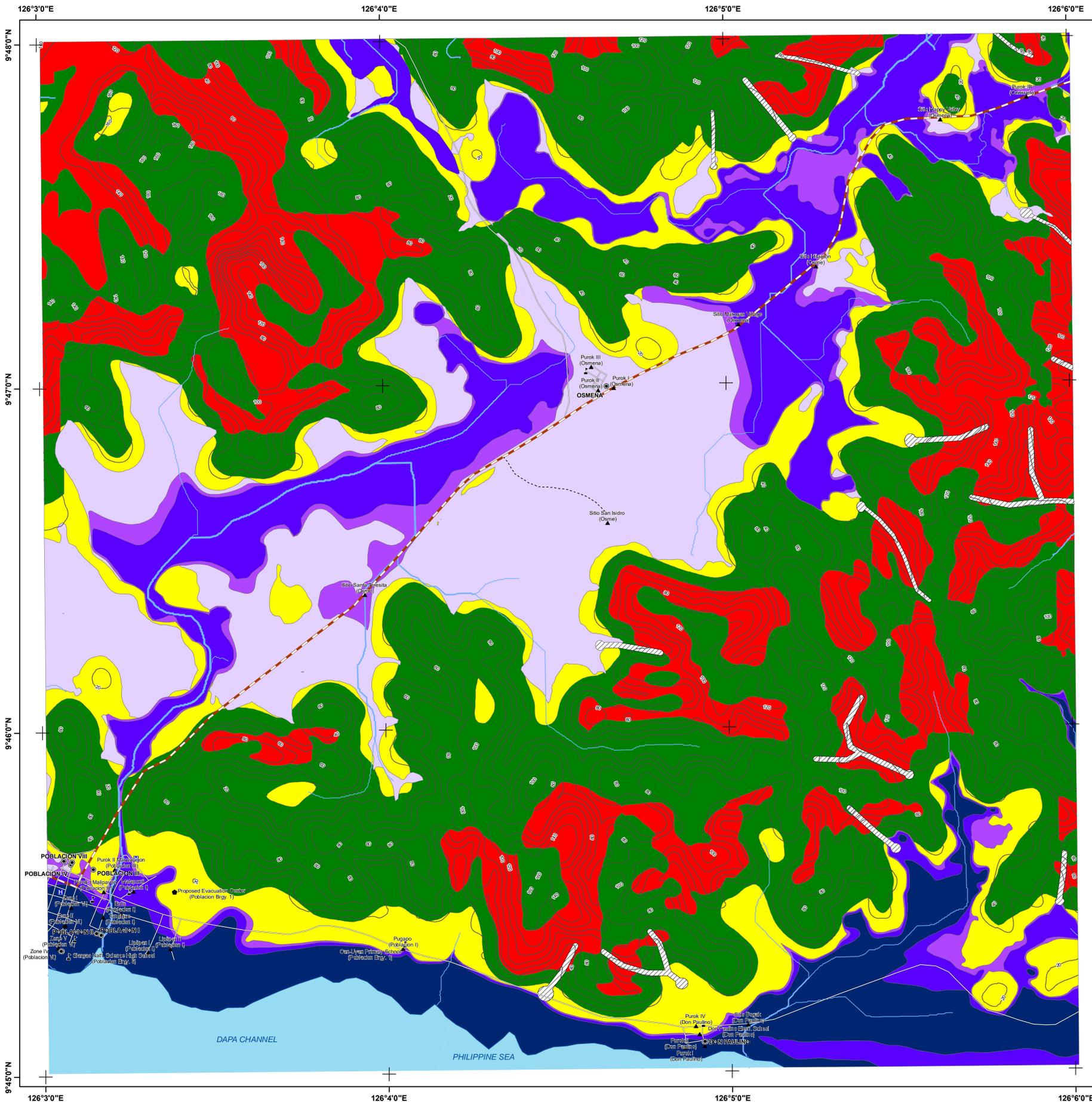
LEGEND :

- | | | | |
|--|--------------------|--|---------------------------------|
| | Main road | | Barangay center location |
| | Secondary road | | Purok/Sitio location (Barangay) |
| | Track; trail | | School |
| | River | | Hospital |
| | Municipal boundary | | Church |
| | 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 | | Flood depth (meter) |
| | Direction of receding floodwater | | Flashflood exit point |



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

Coordinate System :
Spheroid : Clark 1866
Projection : Transverse Mercator
Datum : Luzon 1911

Mapping scale 1:10,000

GIS Processing :
Lands Geological Survey Division



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PUBLISHED DECEMBER 2015