

TABULATED GEOHAZARD SUSCEPTIBILITY ASSESSMENT OF THE BARANGAY CENTERS WITHIN THE MUNICIPALITY OF MANUKAN, ZAMBOANGA DEL NORTI

BRGY	MUNICIPALITY/ CITY	LONGITUDE	LATITUDE	LANDSLIDE SUSCEPTIBILITY RATING	FLOOD SUSCEPTIBILITY RATING	LANDSLIDE REMARKS/RECOMMENDATIONS	FLOOD REMARKS/RECOMMENDATIONS	AS OF	ASSESSED BY/DATA SOURCE
Dipane	MANUKAN	123.1596944	8.5051389	Moderate	Low (sheet flood) on the flood plain areas	Monitor and observe for progress and presence of mass movement along road cuts; Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslides related hazard prevention/mitigation; Identify evacuation site; Constant communication and updates with Brgy. Silawe; activate Barangay Disaster Coordinating Council (BDCC).	Seasonal (annually – every rainy season) sheet flooding with low (0 – 0.5 m) water depths; activate Barangay Disaster Coordinating Council (BDCC).	2009	MGB-RO
Disakan	MANUKAN	123.0479444	8.4961944	Low	High (areas near Disacan River (flashflood/sheetflood))	High – along river banks Observe for presence of mass movement (e.g landslide, tension cracks); Flooding on the Disacan River is susceptible high, with associated mass movement as what had transpired in 2001. The flood and mass movement killed 21 people and damaged 123 houses.	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended flashflood-related hazard prevention; Activate BDCC; engineering measures be applied to address lateral erosion. Flooding on the Disacan River is susceptible high, with associated mass movement as what had transpired in 2001. The flood and mass movement killed 21 people and totally damaged 123 houses, infrastructures	2009	MGB-RO

Gupot	MANUKAN	123.1388889	8.4984167	Low	low (sheet flood)	Observe for presence of mass movements (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended for flood-related hazard prevention; Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Identify evacuation site; activate BDCC; engineering measures be applied to address lateral erosion.	2009	MGB-RO
Libuton	MANUKAN	123.0925556	8.4856944	Moderate	None	Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslides related hazard prevention/mitigation; Identify evacuation site; activate Barangay Disaster Coordinating Council (BDCC). Observe and monitor for the progress of sinkholes and subsidence.		2009	MGB-RO
Linay	MANUKAN	123.1280278	8.5206667	Low	None High-coastal hazards such as coastal erosion/storm surge/swells	High (coastal hazards) along the beach Observe for presence of mass movements (e.g landslide, tension cracks);	Observe coastal erosion/storm surge along the coast areas. coordinating Council (BDCC).	2009	MGB-RO

Lupasang	MANUKAN	123.1408056	8.4705278	Moderate	None	High (road cuts along provincial road) Monitor and observe for progress and presence of mass movement along road cuts; Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslides related hazard prevention/mitigation; Identify evacuation site; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO
Mate	MANUKAN	123.1075000	8.4795000	Moderate	None	Monitor and observe for progress and presence of mass movement along road cuts; Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslides related hazard prevention/mitigation; Identify evacuation site; activate BDCC .		2009	MGB-RO

Poblacion	MANUKAN	123.0934167	8.5160556	Low	low (low lying areas and near Manucan River; High-coastal hazards such as coastal erosion/storm surge/swells)	Observe for presence of mass movements (e.g landslide, tension cracks); Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); activate Barangay Disaster C Observe coastal erosion/storm surge along the coast areas. oordinating Council (BDCC).	2009	MGB-RO
Saluyong	MANUKAN	123.1648333	8.4901389	Moderate	High (sheet flood) on the flat lying areas/flood plain	Observe for presence of mass movement (landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Observed for sunken displaced road surfaces; activate Barangay Disaster Coordinating Council (BDCC).	Seasonal (annually – every rainy season) sheet flooding with high (>1 m) water depths; activate Barangay Disaster Coordinating Council (BDCC).	2009	MGB-RO
Serongan	MANUKAN	123.1046944	8.4435278	Moderate	None	Observe for presence of mass movement (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO
Villaramos	MANUKAN	123.1593333	8.5277222	Low	High-coastal hazards such as coastal erosion/storm surge/swells	Observe for presence of mass movements (e.g landslide, tension cracks);	Observe coastal erosion/storm surge along the coast areas. Activate Barangay Disaster Coordinating Council (BDCC).	2009	MGB-RO

Don Jose Aguirre	MANUKAN	123.1398889	8.5223333	Low (brgy. center)	None	High (coastal hazards) along the beach Observe for presence of mass movements (e.g landslide, tension cracks);		2009	MGB-RO
Lingatongan	MANUKAN	123.1277222	8.4734444	Moderate (brgy. proper)	None	High (road cuts) Observe for presence of mass movement (e.g landslide, tension cracks); Monitor and observe for progress and presence of mass movement along road cuts; develop an early warning device/system intended for landslides related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO
Meses	MANUKAN	123.1255556	8.4562500	Moderate (brgy. proper)	None	High (along road cuts) Observe for presence of mass movements (e.g landslide, tension cracks); Monitor and observe for progress and presence of mass movement along road cuts; activate Barangay Disaster Coordinating Council (BDCC). Prohibit the kaingin activity on the steep slopes of the surrounding hills of the barangay center		2009	MGB-RO

Palaranan	MANUKAN	123.0808611	8.5065833	Moderate	None	Observe for presence of mass movements (e.g landslide, tension cracks); Observe for sunken and displaced road surfaces; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Observe for sunken displaced road surfaces; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO
Pangandao	MANUKAN	123.0966667	8.4034722	Moderate (brgy. center)	None	High- road cuts and the edge of the day care center Monitor and observe for progress and presence of mass movement along the road cuts, slopes of the hills/mountain; develop an early warning device/system intended for landslide-related hazard prevention/mitigation. Prohibit the use of the day care center due to the presence of landslide at the downslope portion of one of the base of the building; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO

Patagan	MANUKAN	123.0811667	8.4263056	Moderate	None High (flashflood) along the Disacan River	High (road cuts along barangay road) Monitor and observe for progress and presence of mass movement along road cuts; develop an early warning device/system intended for landslides related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); activate Barangay Disaster Coordinating Council (BDCC).	2009	MGB-RO
San Antonio	MANUKAN	123.1744167	8.5285833	Low	High-coastal hazards such as coastal erosion/storm surge/swells	Observe for presence of mass movements (e.g landslide, tension cracks);	Observe coastal erosion/storm surge along the coast areas. Activate Barangay Disaster Coordinating Council (BDCC).	2009	MGB-RO

Upper Disakan	MANUKAN	123.0517778	8.4826944	Moderate (brgy. center)	High (flashflood/sheet flood) on flat lying areas/flood plain	High – along river banks Observe for presence of mass movements (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); identify relocation site for residents residing near the tributary of Disakan River; activate BDCC; Develop an early warning system intended for floodrelated hazard prevention; engineering measures be applied to address lateral erosion. The Disakan river system is highly susceptible to flooding with associated mass movement as what had transpired in 2001. The flood and mass movement killed 21 people and totally damaged 123 houses. Despite the incident in 2001 and recognizing the area as highly susceptible to the flood–related hazards, presently there are a number of residents who still preferred to reside in this hazard-prone area.	2009	MGB-RO
East Poblacion	MANUKAN	123.1028611	8.5203333	Low	None High-coastal hazards such as coastal erosion/storm surge/swells	Observe for presence of mass movements (e.g landslide, tension cracks);	Observe coastal erosion/storm surge along the coast areas. oordinating Council (BDCC).	2009	MGB-RO
Punta Blanca	MANUKAN	123.0628611	8.5145556	Low	low (low lying areas-rice fields)	Observe for presence of mass movement (landslide, tension cracks);		2009	MGB-RO

Suisayan	MANUKAN	123.0791667	8.4635000	Moderate	None (brgy. proper)	Monitor and observe for progress and presence of mass movement along road cuts; Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslides related hazard prevention/mitigation; Constant communication and updates with Brgy. Upper Disakan; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO
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