

**TABULATED GEOHAZARD SUSCEPTIBILITY ASSESSMENT OF THE BARANGAY CENTERS WITHIN THE MUNICIPALITY OF KUMALARANÇ, ZAMBOANGA DEL SUR**

BRGY	MUNICIPALITY	LONGITUDE	LATITUDE	LANDSLIDE SUSCEPTIBILITY RATING	FLOOD SUSCEPTIBILITY RATING	LANDSLIDE REMARKS/RECOMMENDATIONS	FLOOD REMARKS/RECOMMENDATIONS	AS OF	ASSESSED BY/DATA SOURCE
Bogayo	KUMALARANG	123.175583	7.783806	High (steep ridge slopes; gullies; valley sides; road cuts); none to low (valley floor)	low to moderate (flashflood within creek channels)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes, valley sides; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes; Activate Barangay Disaster Coordinating Council (BDCC).	Address and or improve storm water drainage network; Observe for rapid increase/ decrease of floodwater possibly accompanied by increase turbidity and soil content; Develop early warning signal/system for flashflood/sheetflood -related hazard prevention/mitigation.	2006	MGB-RO

Bolisong	KUMALARANG	123.210722	7.777972	moderate (brgy center) high (steep ridge slopes and gully sides; road cuts)	none	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes, valley sides; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes; Activate Barangay Disaster Coordinating Council (BDCC).		2006	MGB-RO
Bualan	KUMALARANG	123.137861	7.714444	None (marshland/floodplain of Bualan River); None to low (gentle hill; brgy center); Moderate to high (steep ridge slopes and valley/gully sides)	high (sheetflooding along Bualan River; storm surge; coastal flooding-coastal areas)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Observe for increase in floodwater level and sea swell attributed to storm surge and continuous downpour; Address and/or improve storm water drainage network; Develop early warning signage/signal for flood/coastal related hazard prevention/mitigation; Identify evacuation and or relocation site for settlers within the low lying floodplain/coastal zone; Activate BDCC.	2006	MGB-RO

Boyugan East	KUMALARANG	123.166528	7.747194	none (floodplain); high (riverbank erosion); moderate to high (steep ridge slopes; gully sides)	moderate to high (flashflood/sheetflood within floodplain near rivers.creeks)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes;Address riverbank scouring; Activate Barangay Disaster Coordinating Council (BDCC);Limit/Avoid constructing houses near the unprotected river/creek channels	Observe for increase in floodwater level due to continuous downpour; Address and/or improve storm water drainage network; Develop early warning signage/signal for flood related hazard prevention/mitigation; Identify evacuation and or relocation site for settlers within the low lying floodplain zone; Activate BDCC.	2006	MGB-RO
Boyugan West	KUMALARANG	123.097639	7.741778	none (brgy. center; alluvial plain/floodplain of Boyugan River) (moderate to high (steep ridge slopes and gully/valley sides)	moderate to high (sheetflood/flashflood within Boyugan River floodplain and estuary/marshland of Kumalang River)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Observe for increase in floodwater level due to continuous downpour; Address and/or improve storm water drainage network; Develop early warning signage/signal for flood related hazard prevention/mitigation; Identify evacuation and or relocation site for settlers within the low lying floodplain/coastal zone; Activate BDCC.	2006	MGB-RO

Diplo	KUMALARANG	123.117917	7.782917	High (steep ridge slopes; road cuts; riverbank) none to low (alluvial plain/floodplain of Diplo River-brgy. center)	moderate to high (flashflood/sheetflood within low lying floodplain along Diplo River)	Build-up zone along the riverbank is highly susceptible to riverbank scouring; Address riverbank erosion; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation site for settlers that are immediately affected by the imminent riverbank scouring; Limit/avoid constructing houses within the foot of steep road cuts along the national road and along the unprotected riverbank; Activate Barangay Disaster Coordinating Council (BDCC).	Address and or improve storm water drainage network; Observe for rapid increase of floodwater; Identify evacuation and/or relocation site for residents within the low lying floodplain; Develop early warning signal/system for flashflood hazard prevention/mitigation.	2006	MGB-RO
Gawil	KUMALARANG	123.181528	7.761694	none (floodplain); high (riverbank erosion); moderate to high (steep ridge slopes; gully sides)	moderate to high (flashflood/sheetflood within floodplain near rivers.creeks)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Address riverbank scouring; Activate Barangay Disaster Coordinating Council (BDCC); Limit/Avoid constructing houses near the unprotected river/creek channels	Observe for increase in floodwater level due to continuous downpour; Address and/or improve storm water drainage network; Develop early warning signage/signal for flood related hazard prevention/mitigation; Identify evacuation and or relocation site for settlers within the low lying floodplain zone; Activate BDCC.	2006	MGB-RO

Gusom	KUMALARANG	123.086556	7.700694	None to low (narrow coastal plain; brgy center); High (steep slopes; valley/gully sides)	moderate (storm surge; coastal flooding-coastal areas)	Footslope is highly susceptible to landslide accumulation; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Activate Barangay Disaster Coordinating Council (BDCC).	Observe for sea swell attributed to storm surge; Address and/or improve storm water drainage network; Develop early warning signage/signal for coastal related hazard; Identify evacuation and or relocation site for settlers within the low lying coastal zone; Activate BDCC.	2006	MGB-RO
Kitaan Dagat	KUMALARANG	123.142139	7.802917	High (steep ridge slopes; gullies; valley sides;	none	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes and gully sides; Activate Barangay Disaster Coordinating Council (BDCC).		2006	MGB-RO

Limamawan	KUMALARANG	123.168667	7.799472	High (steep ridge slopes; gullies; valley sides;	none	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes and gully sides; Activate Barangay Disaster Coordinating Council (BDCC).		2006	MGB-RO
Mahayahay	KUMALARANG	123.117806	7.800972	moderate to high (steep ridge slopes and gully sides	moderate (flashflood within creek;gullies)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes and gully sides; Activate Barangay Disaster Coordinating Council (BDCC).	Address and or improve storm water drainage network; Observe for rapid increase of floodwater; Develop early warning signal/system for flashflood/sheetflood -related hazard prevention/mitigation.	2006	MGB-RO

Pangi	KUMALARANG	123.098667	7.814222	low to moderate	moderate (flashflood within creek)	Observe and/or monitor for presence/progress of mass movement (soil creep); Activate Barangay Disaster Coordinating Council (BDCC)	Address and or improve storm water drainage network; Observe for rapid increase of floodwater; Develop early warning signal/system for flashflood/sheetflood -related hazard prevention/mitigation.	2006	MGB-RO
Poblacion	KUMALARANG	123.142694	7.749194	none (floodplain); high (riverbank erosion)	moderate to high (flashflood/sheetflood within floodplain near rivers.creeks)	Address riverbank scouring; Activate Barangay Disaster Coordinating Council (BDCC);Limit/Avoid constructing houses near the unprotected river/creek channels		2006	MGB-RO
Picanan	KUMALARANG	123.115222	7.754944	High (steep ridge slopes; road cuts) none (floodplain/estuary of Diplo-Kumalarang Rivers.	high (floodplain zone)	Build-up zone along the footslope of the displace national highway is highly susceptible to landslide accumulation; Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes;Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep road cuts along the national road; Activate Barangay Disaster Coordinating Council (BDCC).	Address and or improve storm water drainage network; Observe for rapid increase of floodwater; Identify evacuation and/or relocation site for residents within the low lying floodplain; Develop early warning signal/system for flashflood hazard prevention/mitigation	2006	MGB-RO

Salagmanok	KUMALARANG	123.097500	7.830722	none to low (brgy. center) moderate to high (steep ridge slopes; creek channel)	moderate (flashflood within creek)	Observe and/or monitor for presence/progress of mass movement (soil creep); Activate Barangay Disaster Coordinating Council (BDCC)	Address and or improve storm water drainage network; Observe for rapid increase of floodwater; Develop early warning signal/system for flashflood/sheetflood -related hazard prevention/mitigation.	2006	MGB-RO
Secade	KUMALARANG	123.156806	7.771944	High (steep ridge slopes; gullies; valley sides; road cuts); none to low (valley floor)	low to moderate (flashflood within creek channels)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes, valley sides; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes; Activate Barangay Disaster Coordinating Council (BDCC).	Address and or improve storm water drainage network; Observe for rapid increase/ decrease of floodwater possibly accompanied by increase turbidity and soil content; Develop early warning signal/system for flashflood/sheetflood -related hazard prevention/mitigation.	2006	MGB-RO



Suminalum	KUMALARANG	123.126556	7.835306	low (brgy. center; valley floor) high (steep ridge slopes)	none to low (localize flooding within valley floor)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes; Activate Barangay Disaster Coordinating Council (BDCC).	Address and/or improve storm water drainage network.	2006	MGB-RO
Lantawan	KUMALARANG	123.130083	7.770722	High (steep ridge slopes; gullies; valley sides; road cuts)	none (brgy. center); moderate (flashflood within creek channels)	Monitor/observe for presence of vertical displacement, and cracks perpendicular to the steep slopes; Observe for presence of seeps in areas that are not typically wet; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify relocation/evacuation site for settlers that are immediately affected by the imminent landslide; Limit/avoid constructing houses within the foot of steep slopes; Activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase of floodwater possibly accompanied by increase turbidity and soil content.	2006	MGB-RO