

**TABULATED GEOHAZARD SUSCEPTIBILITY ASSESSMENT OF THE BARANGAY CENTERS WITHIN THE MUNICIPALITY OF SIBUCO, ZAMBOANGA DEL NORTE**

<b>BRGY</b>	<b>MUNICIPALITY/ CITY</b>	<b>LONGITUDE</b>	<b>LATITUDE</b>	<b>LANDSLIDE SUSCEPTIBILITY RATING</b>	<b>FLOOD SUSCEPTIBILITY RATING</b>	<b>LANDSLIDE REMARKS/RECOMMENDATIONS</b>	<b>FLOOD REMARKS/RECOMMENDATIONS</b>	<b>AS OF</b>	<b>ASSESSED BY/DATA SOURCE</b>
Anongan	<b>SIBUCO</b>	122.0682222	7.4690278	None (brgy. center); Moderate to high (sloping areas and road cuts)	High (sheetflood along Anungan River floodplain); High- Coastal Hazards such as coastal erosion/storm surge/swells/tsunami/c oastal flooding	Observe for presence of mass movement (e.g landslide, tension cracks); Constant communication and updates with Brgy. Cawit-Cawit; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended flood-related hazard prevention; identify evacuation site; Activate BDCC; Observe coastal erosion/storm surge /swells along the coastal areas. Identify evacuation site	2010	MGB-RO
Basak	<b>SIBUCO</b>	122.0704444	7.3510833	Low to moderate on the hilly areas and sloping grounds	None	Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslide- related hazard prevention/mitigation; 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).		2010	MGB-RO
Cawit-cawit	<b>SIBUCO</b>	122.0881667	7.4955278	None (brgy. center); Moderate to high (sloping areas and road cuts)	None (brgy. center); High-Coastal Hazards such as coastal erosion/storm surge/swells/tsunami/c oastal flooding	Observe for presence of mass movement (e.g landslide, tension cracks); Constant communication and updates with Brgy. Anungan; activate Barangay Disaster Coordinating Council (BDCC).	Observe coastal erosion/storm surge /swells along the coastal areas. Identify evacuation site; Activate Barangay Disaster Coordinating Council (BDCC)	2010	MGB-RO
Dinulan	<b>SIBUCO</b>	122.0820278	7.3428611	Low (barangay center); Moderate to high ( hilly areas)	None (brgy.center); Flashflood-near Nasal River and a tributary of Puliran River	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); activate BDCC	2010	MGB-RO

Jatian	<b>SIBUCO</b>	122.0699167	7.2907222	None	High on sheetflood; Coastal areas-high (storm surges, swells, coastal erosion, tsunami)		Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended sheetflood -related hazard prevention; identify evacuation site; constant communication and updates with Brgy. Poblacion; Activate BDCC.	2010	MGB-RO
Lakiki	<b>SIBUCO</b>	122.0751944	7.2797500	Low-on hilly slopes	high on sheetflood	Observe for presence of mass movement (e.g landslide, tension cracks)	Observe for rapid increase/decrease in river water levels, possibly accompanied by increase turbidity (soil content); Identify evacuation site; Develop an early warning system intended flood-related hazard prevention; constant communication and updates with Brgy. Jatian; activate Barangay Disaster Coordinating Council (BDCC).	2010	MGB-RO
Lambagoan	<b>SIBUCO</b>	122.0349167	7.3481111	None (brgy. center); Moderate to High-sloping areas and road cuts	Coastal areas-high (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for progress and presence of mass movement specially along road cuts/slopes; Observe for presence of mass movement (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).	Observe coastal erosion/storm surge /swells along the coastal areas. Identify evacuation site; Activate Barangay Disaster Coordinating Council (BDCC). Develop an early warning system intended for coastal-related hazard prevention.	2010	MGB-RO

Limpapa	<b>SIBUCO</b>	121.9145556	7.1662778	High	Flashflood-common with low to moderate turbidity; Coastal hazards (storm surges, swells, coastal erosion, tsunami) are high on the coastal sections of the barangay.	Monitor and observe for progress and presence of mass movement (rockfall, landslide, etc) along slopes; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify evacuation site; Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; constant communication and updates with Brgy. Limpapa of Zamboanga City; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended flashflood/ coastal-related hazard prevention; activate Barangay Disaster Coordinating Council (BDCC).	2010	MGB-RO
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Lingayon	<b>SIBUCO</b>	121.9162778	7.1761667	Moderate-High (near the elementary school and the national road); Low Susceptibility on the barangay center itself	High-sheet/flash flooding; High-Coastal Hazards (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for progress and presence of mass movement along slopes; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify evacuation site; Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; constant communication and updates with Brgy. Bungalaw; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended sheet/flash/coastal-related hazard prevention; identify evacuation site; activate BDCC. the flooding of the area is also contributed by the regular clogging of the culverts of the land bridge due to high sedimentation, further spreading out the water up-slopes inundating half of the elementary school located a few meters southeast of the land bridge. Also this resulted to the water overflowing on both ends of the said land bridge thus expanding areas susceptible to inundation. If the culverts are no longer effective, damming is the next possible scenario and breaching is not a remote one thus threatening the community of Lingayon from potential debris/mud flows in the future. Recommendation-continuous declogging of the culverts through dredging and/or appropriate engineering measures should be applied on the bridge.	2010	MGB-RO
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Lintangan	<b>SIBUCO</b>	121.9509722	7.2156944	None (brgy.center); High on sloping grounds and road cuts specially along the road linking Lintangan to Sto Nino via the mountainous/hilly areas.	None (barangay center); high for sheet flood within the adjacent areas of Malayal and Lintangan Rivers; River erosion at the mouth of Lintangan: High-Coastal Hazards (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for presence of mass movement (e.g landslide, tension cracks, rockfall/slide); develop an early warning device/system intended for landslide-related hazard prevention/mitigation and place warning signs like in Sitio Binawing; Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; constant communication and updates with Brgys. Malayal and Sto.Nino; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended flood/coastal-related hazard prevention; Activate BDCC; Recommendation- bridges should be installed at Malayal and Lintangan Rivers because during heavy rains, both rivers are impassable making the people of Sibuco stranded from getting in and out of the municipality.	2010	MGB-RO
Litawan	<b>SIBUCO</b>	122.1576111	7.3446667	Low (brgy. center); Moderate to High (sloping areas and road cuts)	high (sheetflood/flashflood)- areas near the tributary of the Vitali River	Monitor and observe for progress and presence of mass movement specially along road cuts/slopes; Observe for presence of mass movement (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended flood-related hazard prevention; identify evacuation site; Activate BDCC	2010	MGB-RO
Lunday	<b>SIBUCO</b>	122.1486111	7.2753333	Low to Moderate (Barangay center); Moderate to High-hilly areas	None	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide; activate Barangay Disaster Coordinating Council (BDCC).		2010	MGB-RO

Malayal	<b>SIBUCO</b>	121.9363333	7.2062222	None-barangay center; Moderate to High-sloping grounds	High-Coastal Hazards (storm surges, swells, coastal erosion, tsunami)	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify evacuation site; Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; constant communication and updates with Brgy. M. Francisco; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended for coastal-related hazard prevention, activate BDCC.	2010	MGB-RO
Mantivo	<b>SIBUCO</b>	122.0570278	7.4166111	None (Brgy. center); Moderate to high (sloping areas and road cuts)	High-flashflood/sheetflood areas adjacent to Mantibug River; High-Coastal Hazards such as coastal erosion/storm surge/swells/tsunami/coastal flooding	Observe for presence of mass movement (e.g landslide, tension cracks); Constant communication and updates with Brgy. Panganuran; activate Barangay Disaster Coordinating Council (BDCC).	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended flood/coastal-related hazard prevention; identify evacuation site; Activate BDCC; Observe coastal erosion/storm surge /swells along the coastal areas. Identify evacuation site; Activate Barangay Disaster Coordinating Council (BDCC).	2010	MGB-RO

Panganuran	<b>SIBUCO</b>	122.0540278	7.3972222	None (brgy. center); Moderate to High (sloping areas and road cuts)	High- flashflood/sheetflood areas adjacent to Panganuran River; Coastal areas-high (storm surges, swells, coastal erosion, tsunami)	Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslide- related hazard prevention/mitigation; identify evacuation site; 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); Develop an early warning system intended flood/coastal-related hazard prevention; identify evacuation site; Activate BDCC; Observe coastal erosion/storm surge /swells along the coastal areas. Identify evacuation site; Activate Barangay Disaster Coordinating Council (BDCC)	2010	MGB-RO
Pangian	<b>SIBUCO</b>	122.0037222	7.2607222	None-barangay center; Low to Moderate-hilly areas	low on flooding Coastal areas- high (storm surges, swells, coastal erosion, tsunami)	Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslide- related hazard prevention/mitigation; Constant communication and updates with Brgy. Paniran; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended for sheetflood/coastal-related hazard prevention; identify evacuation site; Activate BDCC.	2010	MGB-RO
Paniran	<b>SIBUCO</b>	121.9860278	7.2491389	Moderate	high for sheet flood within the adjacent areas of Caliban River; River erosion at the mouth of the river; High-coastal hazards (storm surge, coastal flooding, tsunami)	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide- related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC); constant communication and updates with Brgy Lintangan.	Develop an early warning system intended flood-related hazard prevention; Identify evacuation site; Constant communication and updates with Brgy. Pangian; Activate BDCC.	2010	MGB-RO

Poblacion	<b>SIBUCO</b>	122.0639444	7.2932778	None	High (bgry.center); Coastal areas-high (storm surges, swells, coastal erosion, tsunami)		Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Develop an early warning system intended sheetflood/coastal-related hazard prevention; identify evacuation site; constant communication and updates with Brgy. Jatian; Activate BDCC.	2010	MGB-RO
Puliran	<b>SIBUCO</b>	122.0811667	7.3012778	None-barangay center; Moderate to High-sloping grounds	high (sheetflood)	Observe for presence of mass movements (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Observe for saturated ground or seeps in areas that are not typically wet; Observe for sunken and displaced road surfaces; Constant communication and updates with Brgy. Poblacion; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended for flood-related hazard prevention; identify evacuation site; constant communication and updates with Barangay Poblacion; Activate BDCC	2010	MGB-RO
Santo Niño (Culabog)	<b>SIBUCO</b>	122.0564722	7.2442500	Low to Moderate (Brgy. center); High-sloping grounds and road cuts	None	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).		2010	MGB-RO
Bongalao	<b>SIBUCO</b>	121.9234722	7.1910556	None-within barangay center; Moderate to high-sloping areas east of the barangay center	Flash flood-common with low turbidity; High-Coastal Hazards (storm surges, swells, coastal erosion, tsunami)	presence of mass movement along slopes; develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify evacuation site; Observe for saturated ground or seeps in areas that are not typically wet; Observe for	Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increase turbidity (soil content); Identify evacuation site, Develop an early warning system intended for coastal-related hazard prevention; Activate BDCC.	2010	MGB-RO

Cabbunan	<b>SIBUCO</b>	122.0733611	7.2881389	None	high on sheetflood		Identify evacuation site; Activate Barangay Disaster Coordinating Council (BDCC).	2010	MGB-RO
Culaguan	<b>SIBUCO</b>	122.0886667	7.2858056	Low to Moderate	None	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).		2010	MGB-RO
Cusipan	<b>SIBUCO</b>	122.0100556	7.2651111	None	low on flooding Coastal areas-high (storm surges, swells, coastal erosion, tsunami)		Develop an early warning system intended for sheetflood/coastal-related hazard prevention; identify evacuation site; Constant communication and updates with Brgy. Pangian; Activate BDCC.	2010	MGB-RO
Kamarangan	<b>SIBUCO</b>	122.0644167	7.3131111	None (brgy.center); Moderate to High (sloping areas)	Coastal areas-high (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for progress and presence of mass movement specially along road cuts/slopes; Observe for presence of mass movement (e.g landslide, tension cracks); activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended for coastal-related hazard prevention; identify evacuation site; Activate BDCC	2010	MGB-RO

Nala (Pob.)	<b>SIBUCO</b>	122.0422778	7.2843056	Moderate (brgy. center); High-sloping grounds and road cuts	None (brgy. center); Coastal areas-high (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for progress and presence of mass movement specially along road cuts/slopes; Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; Identify evacuation site; 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).	Develop an early warning system intended for sheetflood/coastal-related hazard prevention; identify evacuation site; Constant communication and updates with Brgy. Pasilnahut;	2010	MGB-RO
Pasilnahut	<b>SIBUCO</b>	122.0559167	7.2876667	None (brgy center); Moderate to High-sloping grounds and road cuts	Coastal areas- high (storm surges, swells, coastal erosion, tsunami)	Monitor and observe for progress and presence of mass movement specially along road cuts/slopes; Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).	Develop an early warning system intended coastal-related hazard prevention; identify evacuation site; activate BDCC	2010	MGB-RO
Tangarak	<b>SIBUCO</b>	122.0761667	7.2153333	Low to Moderate (brgy center); High-sloping grounds and road cuts	None	Observe for presence of mass movement (e.g landslide, tension cracks); develop an early warning device/system intended for landslide-related hazard prevention/mitigation; activate Barangay Disaster Coordinating Council (BDCC).		2009	MGB-RO

