

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY ALEJAWAN, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Alejawan, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 4, Barangay Alejawan
- Purok 5, Barangay Alejawan
- Purok 7, Barangay Alejawan

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Alejawan

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 4 (N9°40'37.2", E124°23'50.2.1")	High	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Monitor and regulate SAG extraction upstream near Mambool, Duero
2	Purok 5	Moderate	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide sufficient drainage exit to the sea
3	Purok 7 (N9°40'53.4", E124°23'53.5")	Moderate	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide sufficient drainage exit to the sea

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BALILI, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Balili, Jagna on October 18, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 1, Barangay Balili
- Purok 5, Barangay Balili

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Balili

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1	Low	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Provide proper drainage
2	Purok 5	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Provide flood mitigating measure along river bank to prevent scouring

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUNGA ILAYA, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Bunga Ilaya, Jagna on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 2, Barangay Bunga Ilaya
- Purok 7, Barangay Bunga Ilaya

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Bunga Ilaya

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°38'42.5", E124°21'18.8")	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Develop early warning system- Protect embankments from scouring by providing flood control measures (dike, floodwall, etc.)
2	Purok 7	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Provide sufficient drainage exit to the sea

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUNGA MAR, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Bunga Mar, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 1, Barangay Bunga Mar
- Purok 2, Barangay Bunga Mar
- Purok 4, Barangay Bunga Mar
- Purok 5, Barangay Bunga Mar

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Bunga Mar

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°38'33.3", E124°21'33.1")	Moderate	- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide flood protection measure along river banks
2	Purok 2, coastal area	Moderate	- Prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings
3	Purok 4 and 5	Moderate	- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide flood protection measure along river banks

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUYOG, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Buyog, Jagna on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Buyog

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Buyog

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Observe for sunken or displaced road surface

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CABUNGA-AN, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Cabunga-an, Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 1 and 2, Barangay Cabunga-an

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Cabunga-an

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 and 2 Anapog	Low	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Develop an early warning device/system

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CAMBUGASON, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Cambugason, Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 5, Barangay Cambugason
- Purok 6, Barangay Cambugason

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Cambugason

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 5 (N9°41'03.5", E124°23'02.3")	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Evacuate residents during typhoon at designated evacuation areas
2	Purok 6	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Relocate 3 houses at So. Riverside

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CANJULAO, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Canjulao, Jagna on October 18, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 3, Barangay Canjulao

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Canjulao

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 3	Low	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Evacuate residents living near river embankment especially during heavy rainfall/typhoon- Provide adequate drainage and observe buffer zone from rivers

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CANTAGAY, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Cantagay, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 2, Barangay Cantagay

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Cantagay

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°37'52.1", E124°21'24.1")	Moderate	- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Review existing drainage facility

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CAN-UBA, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Can-uba, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Can-uba

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Can-uba

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°37'44.1", E124°20'41.3")	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Monitoring of river exit (culverts/cross drains, etc) to the sea, removal of clogged debris if present

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CAN-UPAO, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Can-upao, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 6, Barangay Can-upao

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Can-upao

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 6	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Repair of damaged dike and regular dredging of river- Coastal area prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY FARAON, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Faraon, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 3, Barangay Faraon

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Faraon

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 3 (N9°38'10.8", E124°20'26.2")	Low	- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide appropriate drainage system

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY IPIL, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Ipil, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Ipil

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Ipil

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°37'51.0", E124°21'12.5")	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Provide flood control measures such as dike/riprap along river banks- Coastal area prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY KINAGBAAN, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Kinagbaan, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Kinagbaan

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Kinagbaan

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°38'46.5", E124°21'08.0")	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Remove clogging along culvert/cross drains; rehabilitate drainage facility

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY LARAPAN, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Larapan, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Larapan

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Larapan

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1	low	- Coastal area along Purok 1 is prone to storm surge

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY LONOY, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Lonoy, Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Lonoy

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Lonoy

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°42'14.3", E124°22'19.3")	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Develop an early warning device/system- Provision of slope protection structure (riprap) along the river bend

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY LOOC, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Looc, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- District 3, Barangay Looc

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Looc

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	District 3 (N9°38'56.1", E124°21'44.9")	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Improve drainage facility and provide flood mitigation measures- Coastal area prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY NAATANG, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Naatang, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 2, Barangay Naatang

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Naatang

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 2	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Conduct regular dredging of creek bed

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY PAGINA, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Pagina, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- 4th District, Pagina 1, Barangay Pagina
- 4th District, Pagina 2, Barangay Pagina
- 2nd and 3rd District, Barangay Pagina

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Pagina

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	4 th District, (N9°39'03.2", E124°21'56.1") Pagina1 Bridge	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Regular dredging and clean-up of river bed down to the mouth
2	4 th District, (N9°39'07.2", E124°22'00.7") Pagina2 Bridge	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Regular dredging and clean-up of river bed down to the mouth
3	2 nd and 3 rd District	Moderate	<ul style="list-style-type: none">- Coastal area prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY PANGDAN, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Pangdan, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok1, Barangay Pangdan
- Purok 7, Barangay Pangdan

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Pangdan

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 Coastal area	High	<ul style="list-style-type: none">- Pre-emptive evacuation of residents along the coast during strong typhoon- Prone to storm surge- Provide appropriate drainage outlet to the sea
2	Purok 7 Near an unnamed river	Moderate	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Conduct regular desiltation of river channel

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY POBLACION, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Poblacion, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 2, Barangay Poblacion
- Purok 5, Barangay Poblacion
- Purok 6, Barangay Poblacion

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Poblacion

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°39'11.5", E124°22'11.1")	High	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide sufficient drainage exit to the sea - Coastal area prone to storm surge, implement pre-emptive evacuation during strong typhoon warnings
2	Purok 5	Moderate	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide sufficient drainage exit to the sea
3	Purok 6	Moderate	<ul style="list-style-type: none"> - Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content) - Provide sufficient drainage exit to the sea

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY TEJERO, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Tejero, Jagna on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following areas:

- Purok 1, San Antonio Village, Barangay Tejero
- Jagna Central Elem. School, Barangay Tejero
- Bohol Inst. of Tech, Barangay Tejero

The assessed areas were rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the results of the assessment of the covered areas:

Table1. Results of Flooding Assessment at Barangay Tejero

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 San Antonio Village	Moderate	- Provide adequate drainage channel
2	Jagna Central Elem. School (N9°39'20.6", E124°22'10.2")	Moderate	- Provide adequate drainage channel
3	Bohol Inst. of Tech	Moderate	- Provide adequate drainage channel

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB - 7 FLOODING ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY TUBOD MAR, JAGNA, BOHOL PROVINCE

The Mines and Geosciences Bureau - Department of Environment and Natural Resources Region 7 (MGB-DENR-7) conducted a flooding assessment and mapping (1:10,000 scale) of areas in Barangay Tubod Mar, Jagna on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from the Mines and Geosciences Bureau, Region 7.

The MGB-7 particularly covered the following area:

- Purok 1, Barangay Tubod Mar

The assessed area was rated as having low, moderate or high susceptibility to flooding. The flooding susceptibility rating parameters are as follows:

- **High flood susceptibility**

Areas likely to experience flood heights of greater than 1.5 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 areas along river banks; also prone to flashfloods.

- **Moderate flood susceptibility**

Areas likely to experience flood heights of 0.5 to 1.5 meters 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 less than 0.5 meter 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

Below summarizes the result of the assessment of the covered area:

Table1. Results of Flooding Assessment at Barangay Tubod Mar

	Location	Flood Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 Near mouth of river	High	<ul style="list-style-type: none">- Observe for rapid increase/decrease in creek/river water levels, possibly accompanied by increased turbidity (soil content)- Conduct regular dredging of creek bed- Coastal area of Purok 1 and 2 is prone to storm surge

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.