

# **LAND SUITABILITY MAP**

## **ABACA**

### **LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

### **PROVINCE OF ZAMBOANGA DEL SUR**



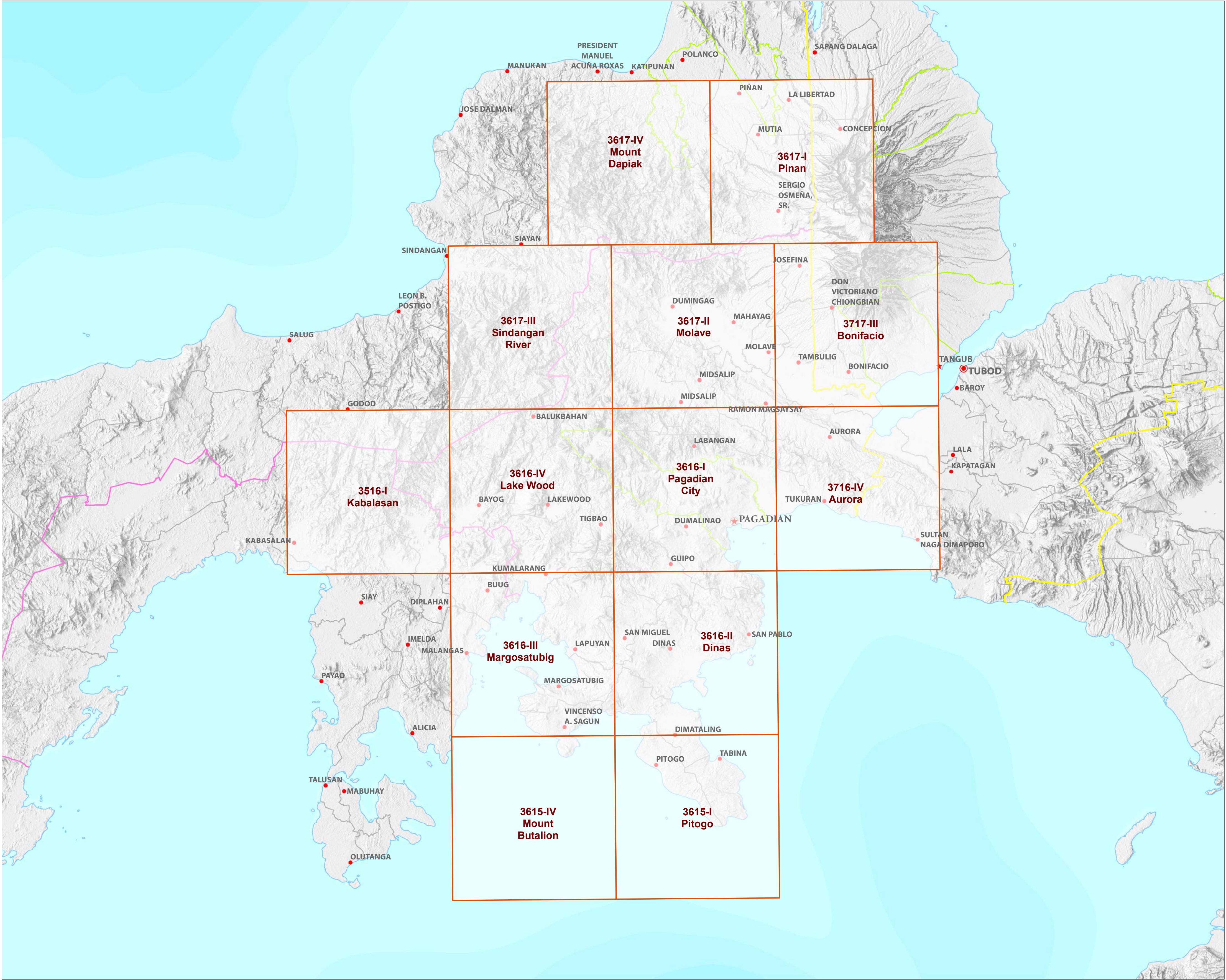
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**DEPARTMENT OF AGRICULTURE**  
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# MAP INDEX

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF ZAMBOANGA DEL SUR



**LEGEND**

**Places**

- ★ Capital City
- ★ City
- Capital Town
- Town

**Administrative Boundary**

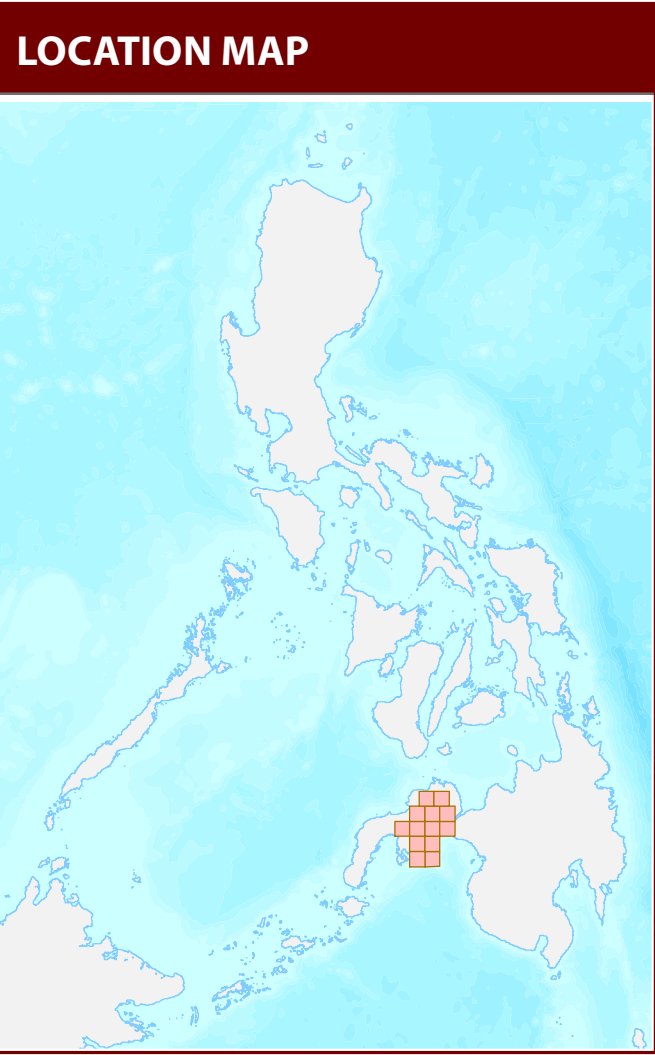
- Regional
- Provincial
- City
- Municipal

**Map Index**

- Index grid

**Topographic Relief**

**Bathymetry**



**MISCELLANEOUS INFORMATION**

Land suitability information produced by the Bureau of Soils and Water Management (BSWM) through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** duly supported by the Philippine Council on Agriculture and Fisheries (PCAF) and funded by the Bureau of Agricultural Research (BAR).

Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and Water Management (BSWM).

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# LAND SUITABILITY MAP FOR ABACA

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS ZAMBOANGA DEL SUR, REGION IX

### EXTENT OF SUITABILITY FOR ABACA PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING ABACA (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION AREA (Ha)								TOTAL POTENTIAL EXPANSION AREA (Ha)		
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Mango		Banana		Other crops				
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2			
AURORA	-	-	-	-	-	480	7,525	6	100	28	351	453	733	-	-	-	-	-	-	9,676	
BAYOG	-	-	-	-	-	79	587	14	235	244	3,446	601	469	-	-	-	-	-	-	5,675	
DIMATALING	-	-	-	-	-	1,915	3,649	60	230	-	-	257	185	7	1	-	-	-	-	6,303	
DINAS	-	-	-	-	-	3,372	5,143	23	218	85	59	533	852	3	3	-	-	-	2	3	10,296
DUMALINAO	-	-	-	-	-	678	2,920	-	9	16	387	855	2,104	-	-	-	-	-	-	6,969	
DUMINGAG	-	-	-	-	-	25	257	12	121	549	7,300	1,051	176	-	-	-	-	-	-	9,491	
GUIPOS	-	-	-	-	-	101	871	-	9	44	386	760	1,619	-	-	-	-	-	-	3,791	
JOSEFINA	-	-	-	-	-	-	1,392	-	182	-	159	42	1,800	-	-	-	-	-	-	3,575	
KUMALARANG	-	-	-	-	-	358	1,775	1	9	1	262	451	546	-	-	-	-	-	-	3,403	
LABANGAN	-	-	-	-	-	153	51	-	18	284	1,356	2,397	223	-	-	-	-	-	1	4,483	
LAKEWOOD	-	-	-	-	-	37	2,186	-	127	39	839	44	497	-	-	-	-	-	-	3	3,771
LAPUYAN	-	-	-	-	-	1,258	6,103	40	373	11	179	499	656	-	-	-	-	-	-	-	9,120
MAHAYAG	-	-	-	-	-	1,435	1,026	75	52	249	423	1,553	1,096	-	-	6	2	2	-	-	5,920
MARGOSATUBIG	-	-	-	-	-	801	3,485	19	171	4	20	157	357	-	-	-	-	-	-	-	5,015
MIDSALIP	-	-	-	-	-	6	63	83	72	532	3,617	589	307	-	-	-	-	-	-	-	5,268
MOLAVE	-	-	-	-	-	488	1,432	77	195	-	1	965	3,085	-	-	-	-	-	-	-	6,243
PAGADIAN CITY	-	-	-	-	-	1,235	3,084	34	173	161	832	1,785	2,880	-	-	-	-	-	-	-	10,184
PITOGO	-	-	-	-	-	2,115	3,608	-	-	-	-	160	118	-	-	-	-	-	-	-	6,001
RAMON MAGSAYSAY	-	-	-	-	-	708	3,384	6	43	235	209	212	1,140	-	-	-	-	-	-	-	5,938
SAN MIGUEL	-	-	-	-	-	1,121	2,937	4	110	12	124	412	774	-	-	-	-	-	-	-	5,494
SAN PABLO	-	-	-	-	-	761	3,763	-	-	-	28	332	659	-	2	-	-	-	-	-	5,545
SOMINOT	-	-	-	-	-	254	1,468	12	56	617	2,022	159	482	-	-	-	-	-	-	-	5,070
TABINA	-	-	-	-	-	725	4,967	-	-	-	-	6	68	-	-	-	2	5	-	-	5,771
TAMBULIG	-	-	-	-	-	172	2,518	-	1	20	46	1,334	954	-	-	-	-	-	-	-	5,046
TIGBAO	-	-	-	-	-	39	1,680	-	91	3	170	255	921	1	-	-	-	-	-	3	3,162
TUKURAN	-	-	-	-	-	70	377	7	100	493	3,154	623	421	-	-	3	-	-	-	-	5,245
VINCENZO A. SAGUN	-	-	-	-	-	904	3,381	-	-	-	25	68	81	-	1	-	-	-	-	-	4,460
TOTAL	-	-	-	-	-	19,291	69,632	474	2,694	3,626	25,395	16,553	23,201	10	7	9	4	11	8	160,916	

Note: Delivery of abaca planting materials must be started on the onset of rainy season.  
\*establishment of shade trees prior to planting of abaca.

### AGRONOMIC REQUIREMENT OF ABACA PRODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
Abaca	S1	<8	>50	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD, SPD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	2001-4500	II, III, IV
	S2	8 - 30	30 - 50	FSL, L, SiL, SL	PD,VPD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1500	1000-2000	I, II
	S3	>30	< 30	S, LS, CSL	ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500	

<b>SLOPE (%)</b> 0 - 3 - level to gently sloping 3 - 8 - gently sloping to undulating 8 - 18 - undulating to rolling 18 - 30 - rolling to moderately steep 30 - 50 - steep > 50 - very steep		<b>SOIL DRAINAGE</b> ED - excessively drained WD - well drained MWD - moderately well drained SPD - somewhat poorly drained PD - poorly drained VPD - very poorly drained		<b>SOIL REACTION (pH)</b> < 4.5 - extremely acid 4.5 - 5.0 - very strongly acid 5.1 - 5.5 - strongly acid 5.6 - 6.0 - medium acid 6.1 - 6.5 - slightly acid 6.6 - 7.2 - neutral 7.3 - 7.8 - mildly alkaline 7.9 - 8.4 - moderately alkaline > 8.5 - strongly alkaline		<b>SOIL TEXTURE</b> <b>Coarse</b> S - sand LS - loamy sand CSL - coarse sandy loam SL - sandy loam <b>Medium</b> FSL - fine sandy loam L - loam SiL - silt loam CL - clay loam SiCL - silty clay loam SCL - sandy clay loam		<b>Fine</b> SC - sandy clay SiC - silty clay C - clay HC - heavy clay	
<b>SOIL DEPTH (cm)</b> 0 - 30 - very shallow 30 - 50 - shallow 50 - 100 - moderately deep > 100 - deep to very deep		<b>SURFACE IMPEDIMENT</b> ROCK OUTCROPS < 10% - none - few 10 - 30% - common > 30% - many							

### LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

<b>ELEVATION</b> EI2 - 500 - 1000m or 2000 - 2500m EI3 - < 500m or > 2500m		<b>SOIL DRAINAGE</b> D2 - Somewhat poorly drained to poorly drained D3 - Very poorly drained or excessively drained		<b>SOIL DEPTH</b> Sh2 - Shallow to moderately deep (30 - 100cm) Sh3 - Very shallow (< 30cm)		<b>SOIL EROSION</b> E2 - Moderate erosion E3 - Severe erosion	
<b>SLOPE/TOPOGRAPHY</b> T2 - Undulating to moderately steep T3 - Steep to very steep		<b>SOIL TEXTURE</b> Tc - Coarse texture		<b>ROCK OUTCROPS</b> Rc2 - Common Rc3 - Many		<b>FLOODING</b> F2 - Moderate seasonal flooding F3 - Severe seasonal flooding	

CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	F2-D2	11	T2-E3-Sh2-Rc2	21	T3	31	T3
2	F2-Tc	12	T2-E3-Sh2-Rc3	22	T3-E3	32	T3-E3
3	F3-D2	13	T2-EI2-E3-Sh2-Rc2	23	T3-E3-Rc2	33	T3-E3-Sh3-Rc3
4	Rc2	14	T2-EI2-E3-Sh2-Rc3	24	T3-E3-Sh2-Rc3	34	T3-EI2-E3-Sh3-Rc3
5	Sh2-Rc2	15	T2-EI2-Sh2-Rc3	25	T3-E3-Sh3-Rc2	35	T3-EI3
6	T2	16	T2-F2-D2	26	T3-E3-Sh3-Rc3		
7	T2-E2-Sh2-Rc2	17	T2-F3-D2	27	T3-EI2-E3-Sh3-Rc2		
8	T2-E3	18	T2-Rc2	28	T3-EI2-E3-Sh3-Rc3		
9	T2-E3-Rc2	19	T2-Sh2-Rc2	29	T3-F2-D2		
10	T2-E3-Rc3	20	T2-Sh2-Rc3	30	T3-F3-D2		

CODE	LANDUSE	CODE	LANDUSE
4	Corn	131	Ipil ipil
47	Vegetable	134	Shrubs, unmanaged
81	Coffee	137	Rubber
82	Cacao		
85	Mango		
87	Jackfruit		
91	Banana		
105	Fruit trees, mixed		
116	Coconut		
126	Grassland		

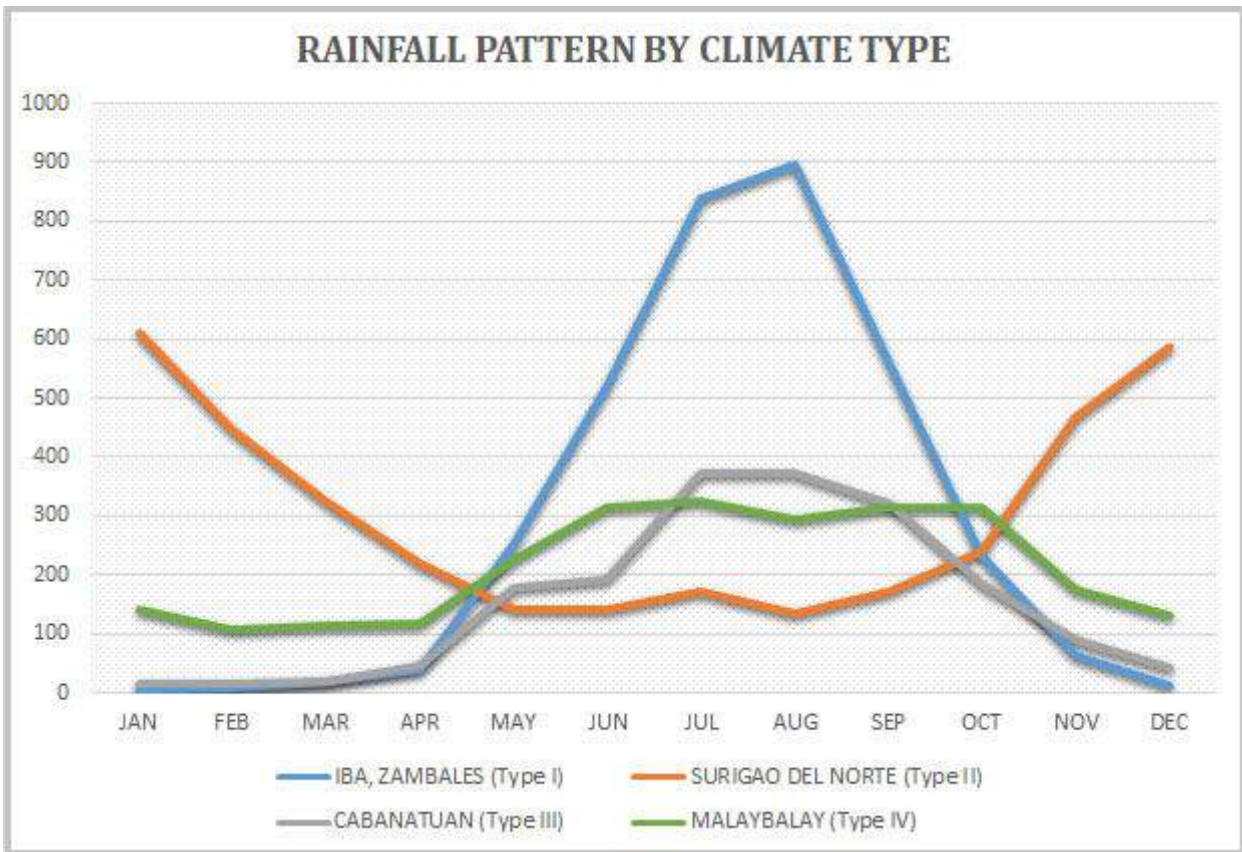
### SUITABILITY CLASSES:

<b>Highly Suitable (S1)</b> Land having no significant limitation to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.	<b>Marginally Suitable (S3)</b> Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.
<b>Moderately Suitable (S2)</b> Land having limitation which in aggregate are moderately severe for sustained application of a given use; the limitation will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.	<b>Not Suitable / Not Relevant</b> Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater than 18% slope, irrigated paddy rice and miscellaneous land types such as built up areas, roads, etc are considered as not relevant.

### CLIMATE TYPE

<b>TYPE I</b> : Two pronounced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September	<b>TYPE II</b> : No dry season with a very pronounced maximum rain period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
<b>TYPE III</b> : No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.	<b>TYPE IV</b> : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

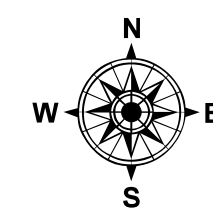
Eastern part of Zamboanga Del Sur belongs to Type III climate classification and the rest on Western part belongs to Type IV.



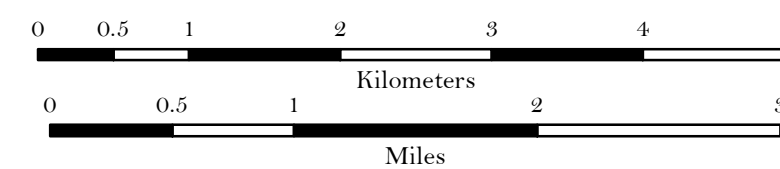
Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <<https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>>.



## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



**SCALE 1 : 50 000**



Universal Transverse Mercator Zone 51 N. PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative


## LEGEND

### SUITABILITY CLASSES

- |    |  |
|----|--|
| S1 | <b>Highly Suitable</b> - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.  |
| S2 | <b>Moderately Suitable</b> - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall economic gain to be gained from the use, although attractive, will be appreciably inferior to that expected on class S1 land. |
| S3 | <b>Marginally Suitable</b> - Land having limitations which in aggregate are severe for sustained application of a given use and will to reduce productivity or benefits, or increase required inputs, to such that this expenditure will be only marginally justified.   |


☐ Not Suitable/ Not Relevant

### OTHER SIGNS

- 
 NGP Areas  
 Cacao

## CONVENTIONAL SIGNS

## ROADS

- 
- Express  
Trunk line  
Primary  
Secondary  
Tertiary

**BOUNDAR**

**HYDROLOGY**

 Sea / Shoreline  
Lakes / Rivers

## PLACES

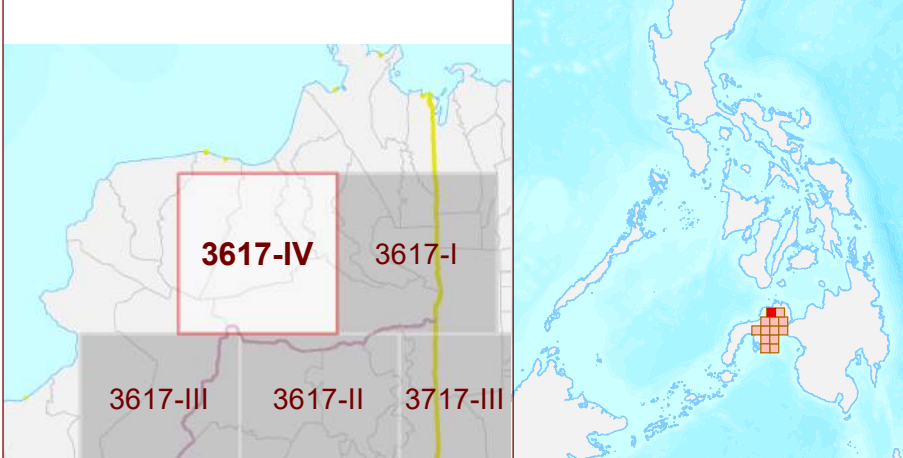
- ★ Capital City / City  
● Capital Town / Town

## LAND USE

-  Built-up  Fishpond  Mangrove

## ADJOINING SHEETS

**3617-IV**



## INDEX MAP


### MISCELLANEOUS INFORMATION

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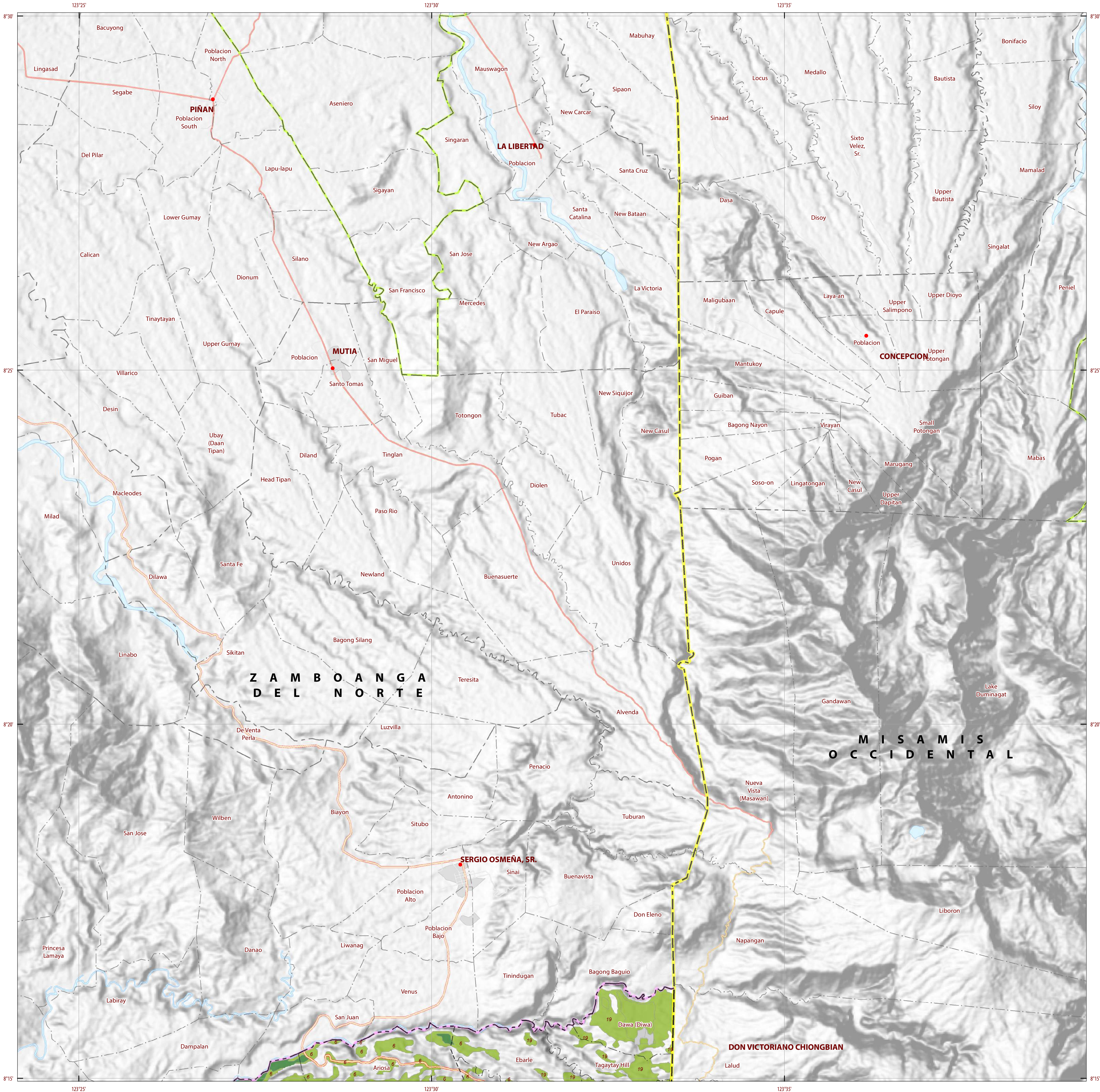
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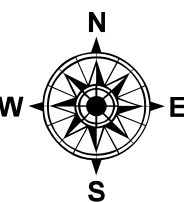








LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
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LEGEND

SUITABILITY CLASSES

S1

Highly Suitable

- Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

S2

Moderately Suitable

- Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.


S3


Marginally Suitable

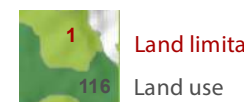
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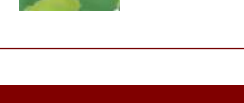
Not Suitable/ Not Relevant

OTHER SIGNS

 NGP Areas

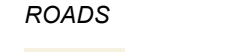
 Cacao


 Land limitation


 Land use


CONVENTIONAL SIGNS


ROADS

 Expressway


 Trunk line


 Primary

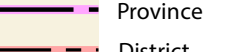
 Secondary

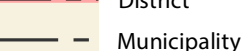
 Tertiary


BOUNDARY

 Region


 Province

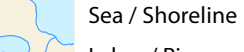
 District

 Municipality


 Barangay

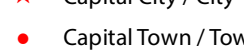
HYDROLOGY

 Sea / Shoreline

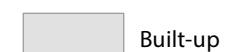
 Lakes / Rivers


PLACES


 Capital City / City

 Capital Town / Town

LAND USE

 Built-up

 Fishpond

 Mangrove

ADJOINING SHEETS

INDEX MAP

3617-I

3617-IV

3617-III

3617-II

3617-III

MISCELLANEOUS INFORMATION

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PROVINCE OF ZAMBOANGA DEL SUR

Sheet 2 of 13

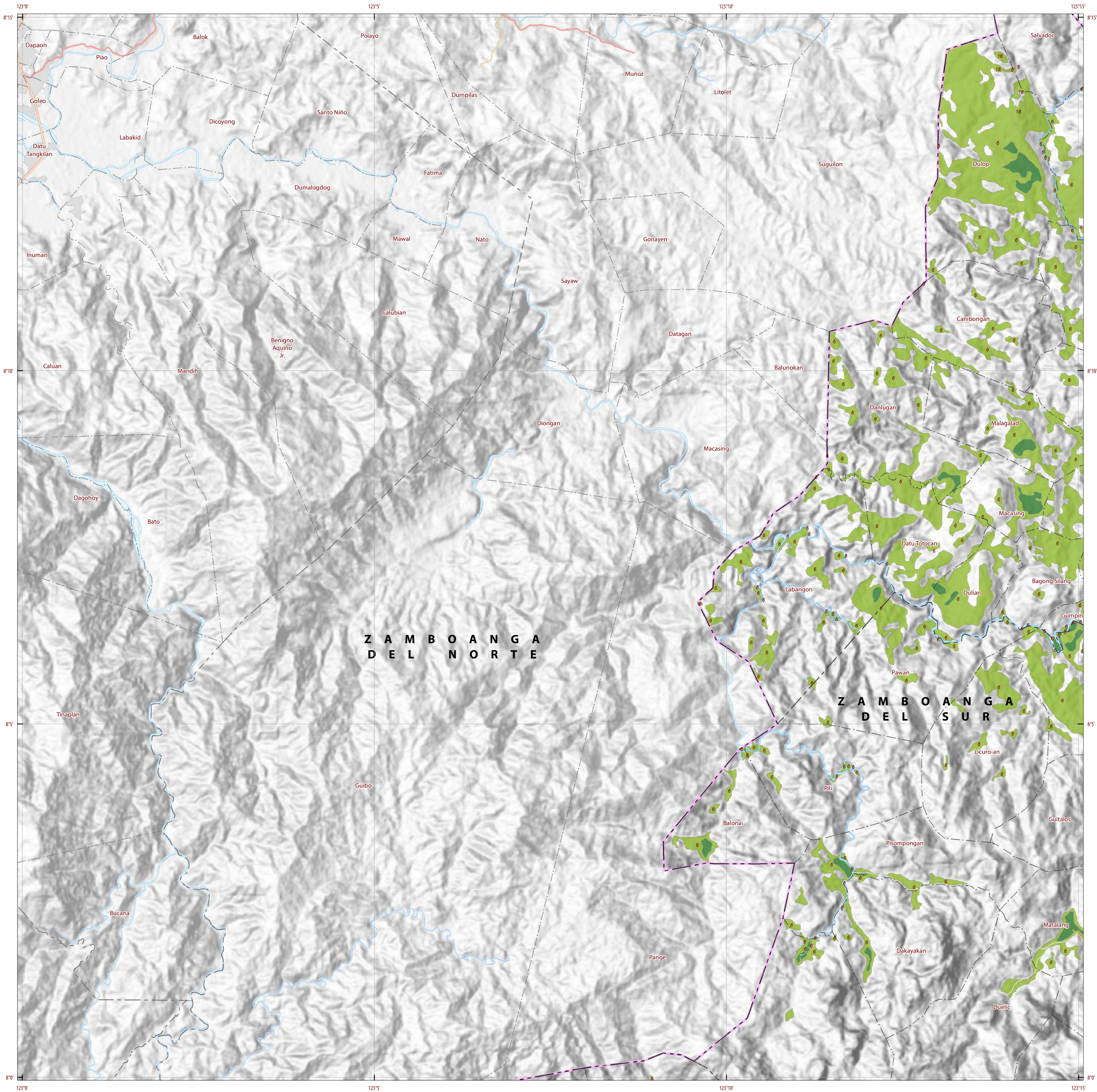
Sheet No. 3617-I



3617-III

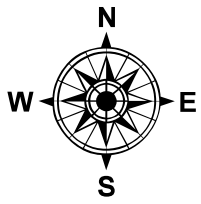
PROVINCE OF ZAMBOANGA DEL SUR

Sindangan River



LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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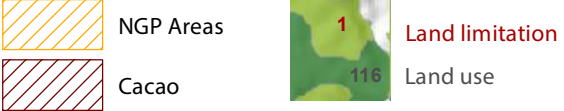
LEGEND

SUITABILITY CLASSES

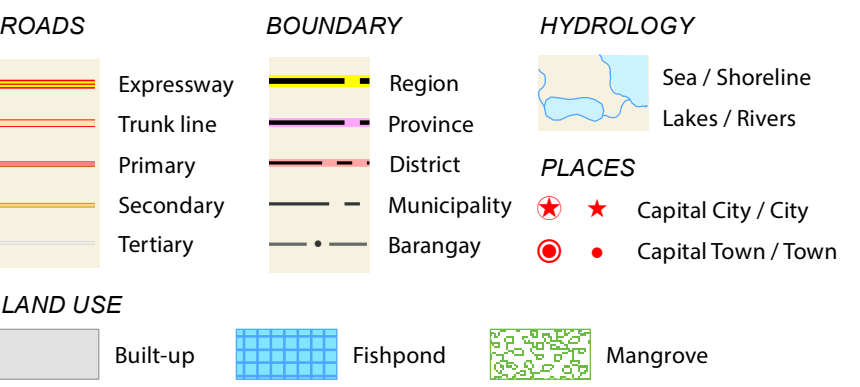
- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.
- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.
- S3 Marginally Suitable** - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

Not Suitable/ Not Relevant

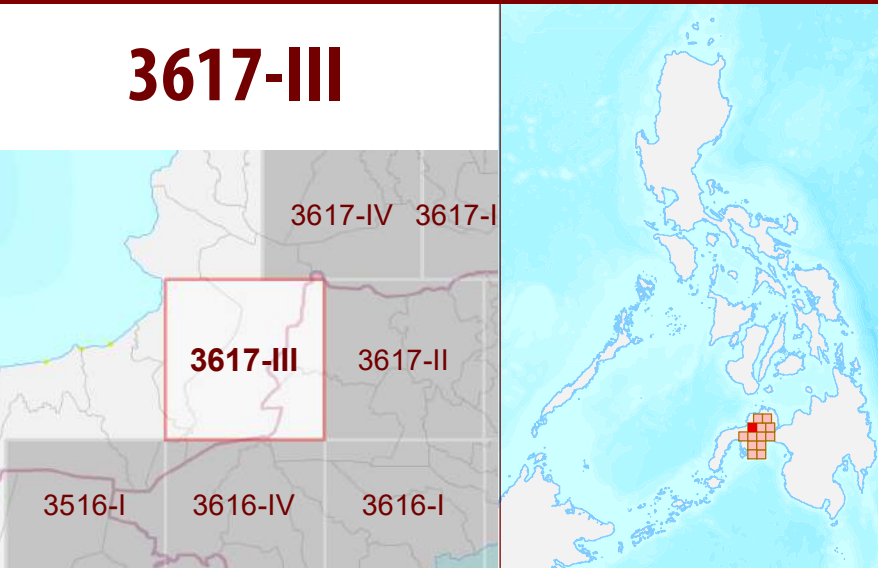
OTHER SIGNS



CONVENTIONAL SIGNS



ADJOINING SHEETS



MISCELLANEOUS INFORMATION

**SOURCES OF INFORMATION** : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soil Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** implemented by BSWM (2017).

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Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)  
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: Local Government Unit (LGU) of covered provinces and municipalities

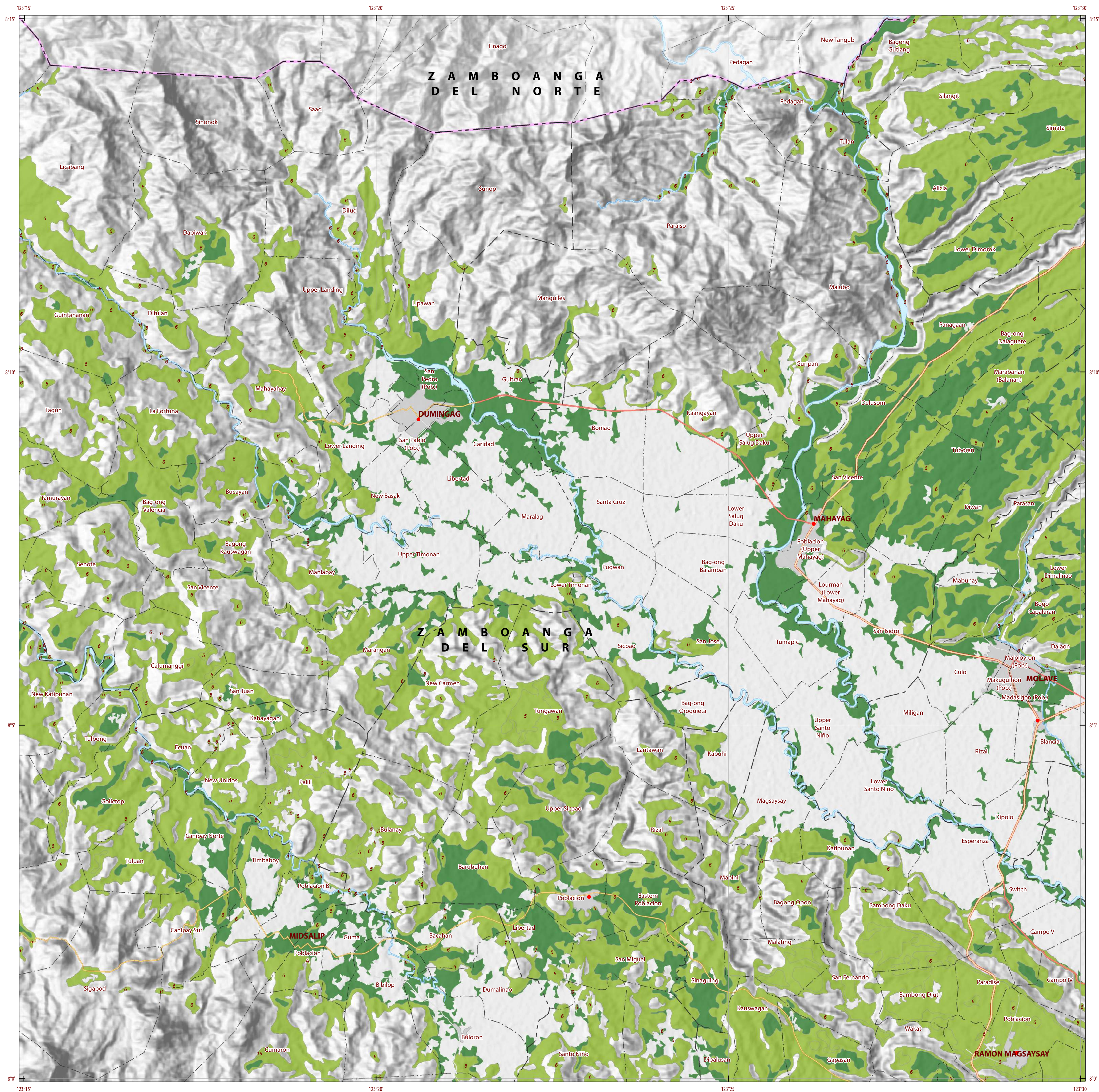
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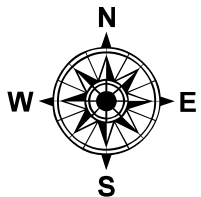
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DEPARTMENT OF AGRICULTURE  
BUREAU OF SOILS AND WATER MANAGEMENT  
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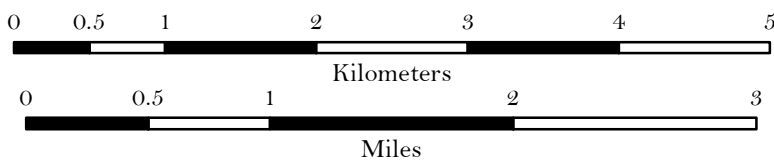


# LAND SUITABILITY MAP ABACA

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



**SCALE 1 : 50 000**



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

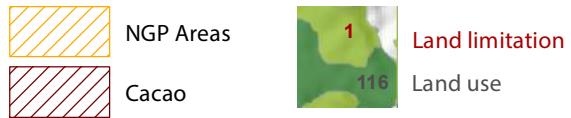
## LEGEND

### SUITABILITY CLASSES

- |    |  |
|----|--|
| S1 | <b>Highly Suitable</b> - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.  |
| S2 | <b>Moderately Suitable</b> - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall application of a given use from the use, although still attractive, will be appreciably inferior to that expected on class S1 land. |
| S3 | <b>Marginally Suitable</b> - Land having limitations which in aggregate are severe for sustained application of a given use; and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.  |

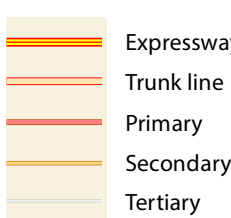
**Not Suitable/ Not Relevant**

### OTHER SIGNS



## CONVENTIONAL SIGNS

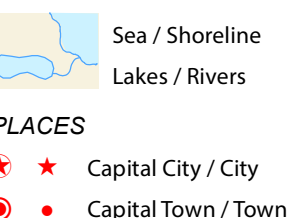
## ROADS



## BOUNDARY



## HYDROLOGY

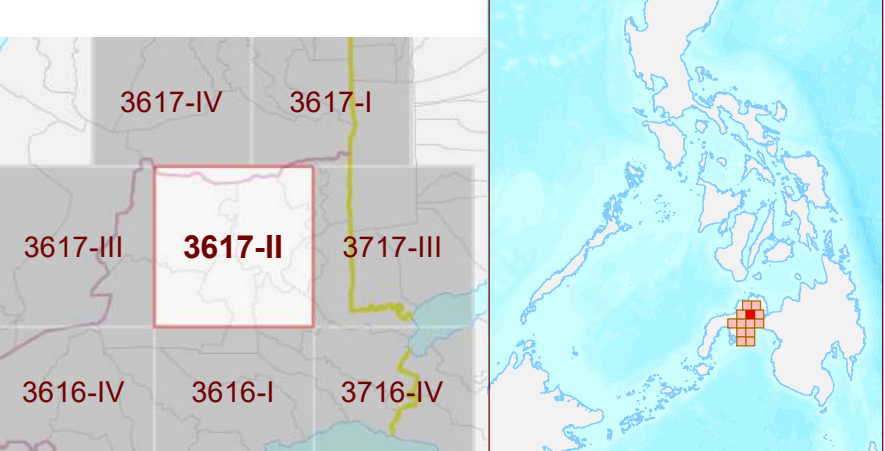


## LAND USE



## ADJOINING SHEETS

# 3617-II




### MISCELLANEOUS INFORMATION

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GIS and Cartography	IRVIN K. SAMALCA
Funding Agency	Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
Collaborating Agencies	Philippine Council on Agriculture and Fisheries (PCAF) Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga) Local Government Unit (LGU) of covered provinces and municipalities

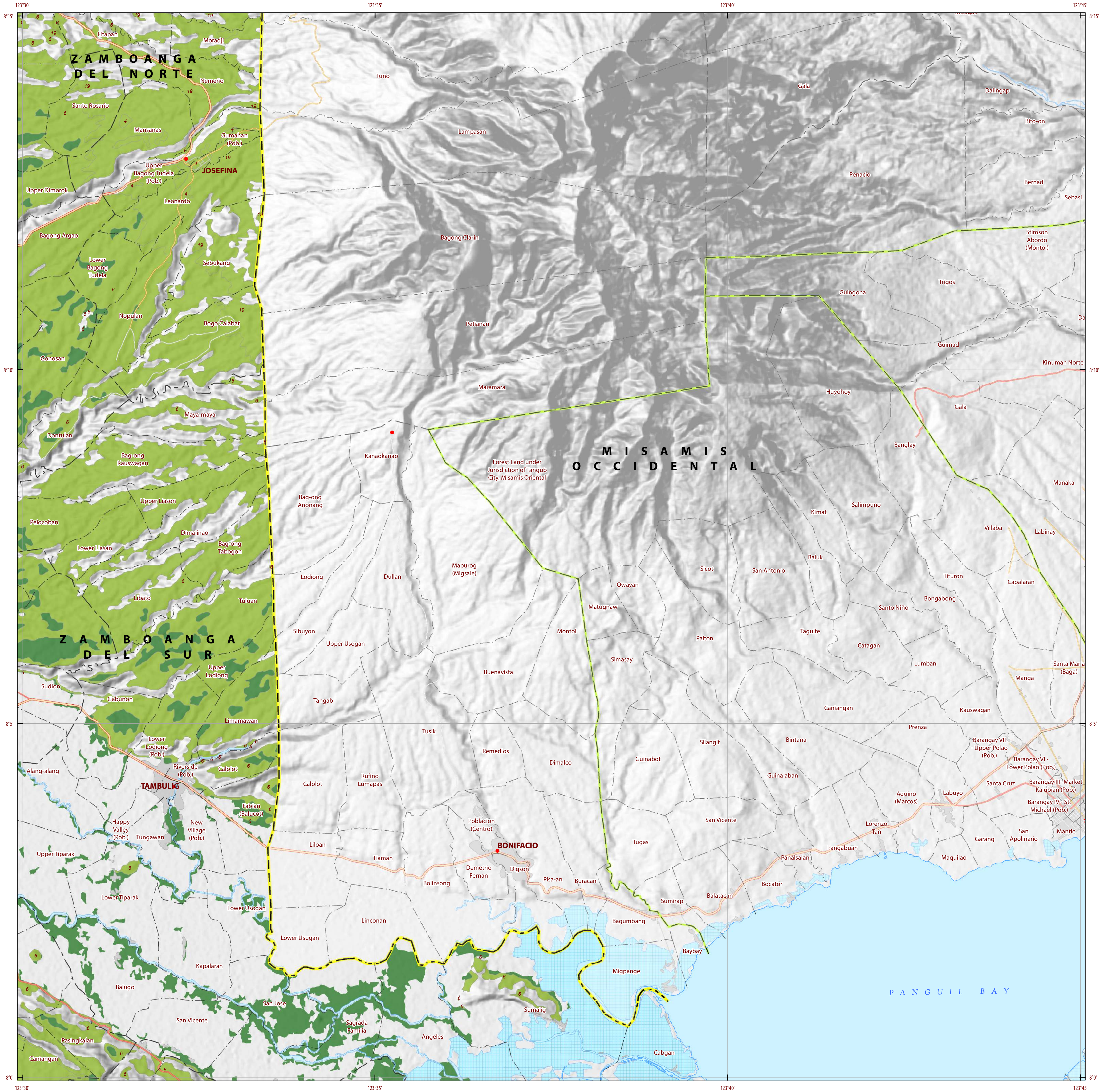
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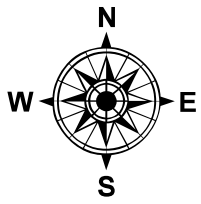
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 BUREAU OF SOILS AND WATER MANAGEMENT  
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## LAND SUITABILITY MAP ABACA

### LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

#### LEGEND

##### SUITABILITY CLASSES

- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.
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Not Suitable/ Not Relevant

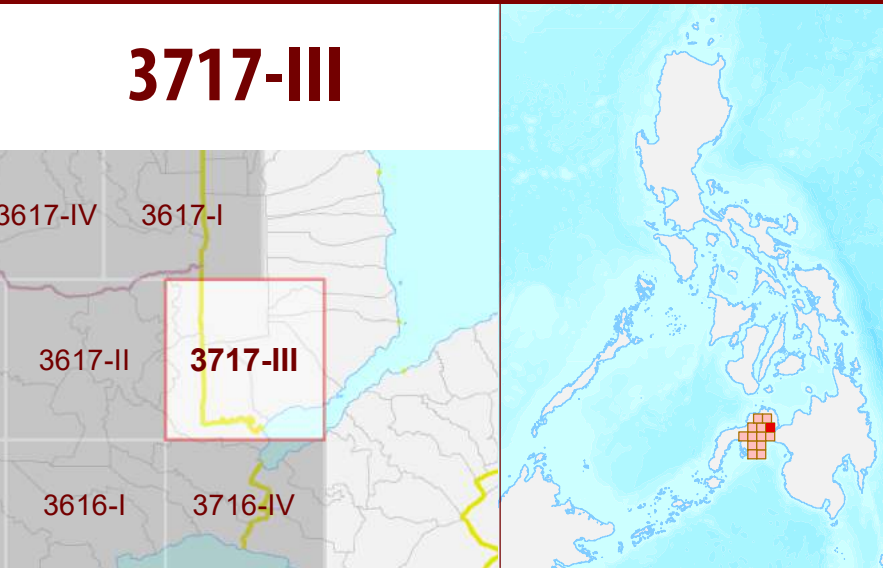
##### OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

#### CONVENTIONAL SIGNS

- ROADS**
  - Expressway
  - Trunk line
  - Primary
  - Secondary
  - Tertiary
- BOUNDARY**
  - Region
  - Province
  - District
  - Municipality
  - Barangay
- HYDROLOGY**
  - Sea / Shoreline
  - Lakes / Rivers
- PLACES**
  - Capital City / City
  - Capital Town / Town
- LAND USE**
  - Built-up
  - Fishpond
  - Mangrove

#### ADJOINING SHEETS



#### MISCELLANEOUS INFORMATION

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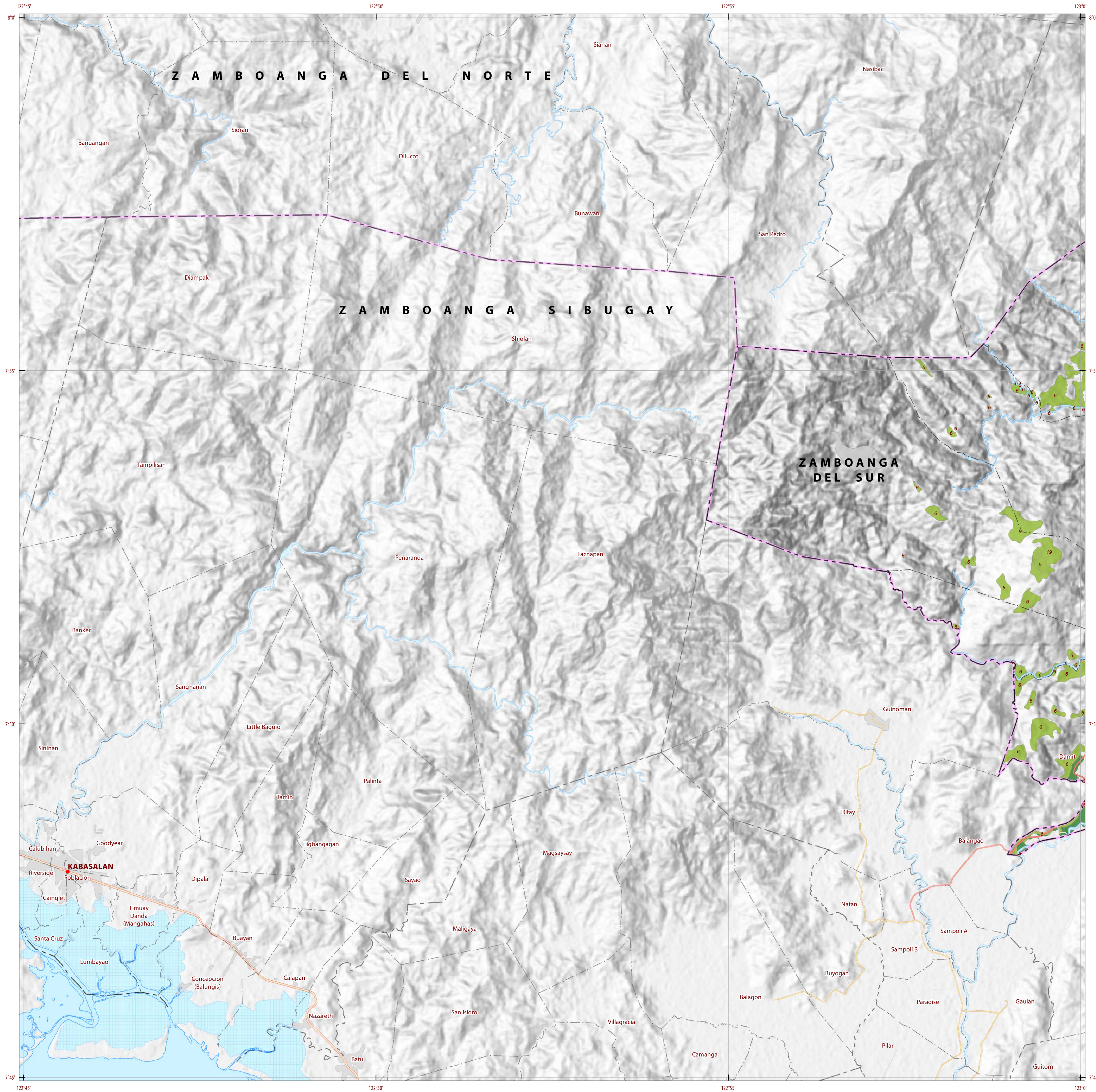
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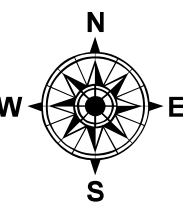






## LAND SUITABILITY MAP ABACA

### LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000

0

0.5

1

2

3

4

5

Kilometers

0

0.5

1

2

3

Miles

Universal Transverse Mercator Zone 51 N, PRS 1992 Datum

DISCLAIMER : All political boundaries are not authoritative.

#### LEGEND

##### SUITABILITY CLASSES

S1

**Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

S2

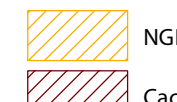
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S3


**Marginally Suitable** - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

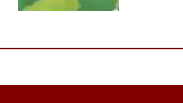
**Not Suitable/ Not Relevant**

##### OTHER SIGNS

 NGP Areas


 Cacao


 Land limitation


 Land use


#### CONVENTIONAL SIGNS

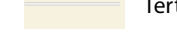
##### ROADS

 Expressway


 Trunk line


 Primary


 Secondary


 Tertiary


##### BOUNDARY

 Region


 Province


 District

 Municipality


 Barangay


##### HYDROLOGY

 Sea / Shoreline


 Lakes / Rivers


##### PLACES


 Capital City / City

 Capital Town / Town

##### LAND USE

 Built-up

 Fishpond

 Mangrove

#### ADJOINING SHEETS

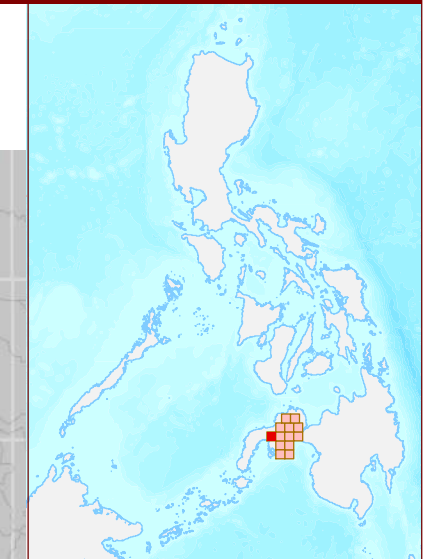
3516-I

3516-III

3516-IV

3516-V

#### INDEX MAP




#### MISCELLANEOUS INFORMATION

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PROVINCE OF ZAMBOANGA DEL SUR

Sheet 6 of 13

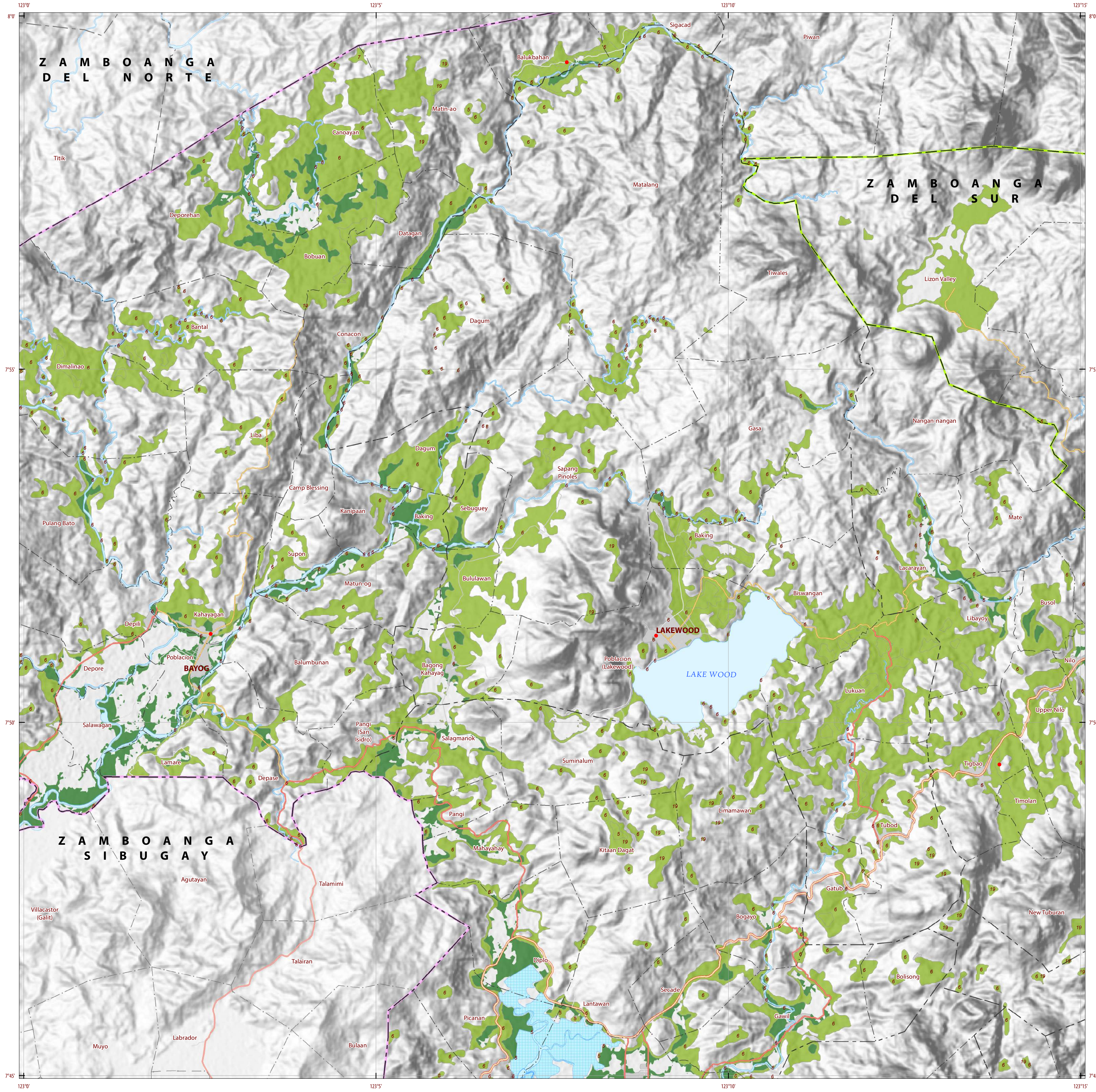
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3616-IV

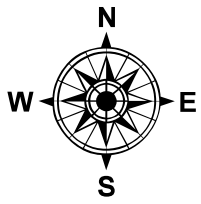
PROVINCE OF ZAMBOANGA DEL SUR

Lake Wood



LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.
- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.
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Not Suitable/ Not Relevant

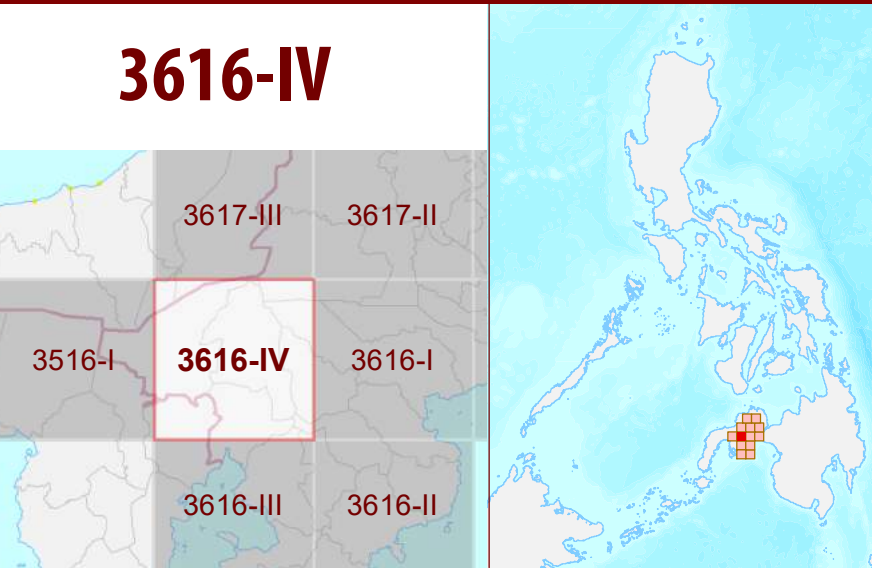
OTHER SIGNS

- NGP Areas  
Cacao  
Land limitation  
Land use

CONVENTIONAL SIGNS

- ROADS**  
Expressway  
Trunk line  
Primary  
Secondary  
Tertiary
- BOUNDARY**  
Region  
Province  
District  
Municipality  
Barangay
- HYDROLOGY**  
Sea / Shoreline  
Lakes / Rivers
- PLACES**  
Capital City / City  
Capital Town / Town
- LAND USE**  
Built-up  
Fishpond  
Mangrove

ADJOINING SHEETS



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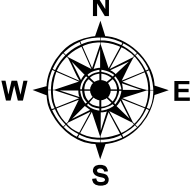





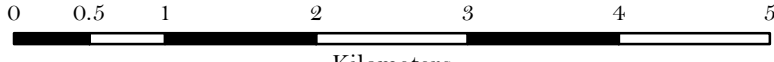


LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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SUITABILITY CLASSES

S1

**Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

S2





**Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

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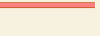
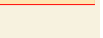



**Not Suitable/ Not Relevant**

OTHER SIGNS

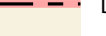

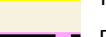




CONVENTIONAL SIGNS

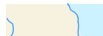

ROADS



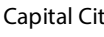

BOUNDARY




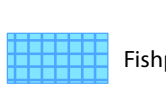

HYDROLOGY



PLACES

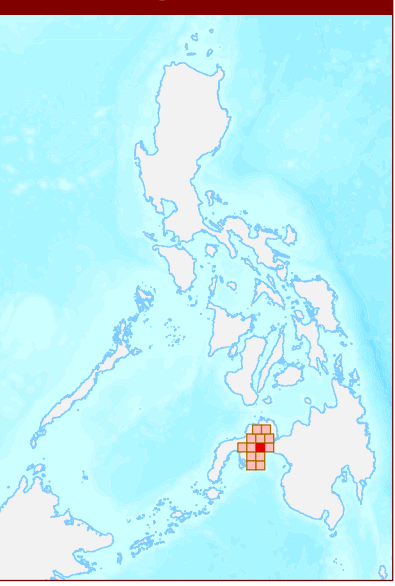


LAND USE



ADJOINING SHEETS

3616-I




MISCELLANEOUS INFORMATION

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PROVINCE OF ZAMBOANGA DEL SUR

Sheet 8 of 13

Sheet No. 3616-I



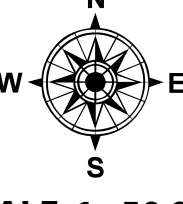





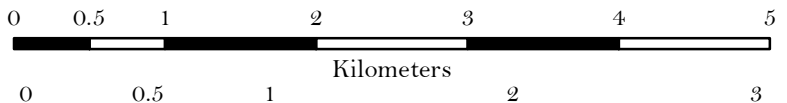
## LAND SUITABILITY MAP

### ABACA

#### LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER: All political boundaries are not authoritative.

#### LEGEND

**SUITABILITY CLASSES**

- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.
- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.
- S3 Marginally Suitable** - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.
- Not Suitable/ Not Relevant**

**OTHER SIGNS**

- NGP Areas
- Cacao
- Land limitation
- Land use

#### CONVENTIONAL SIGNS

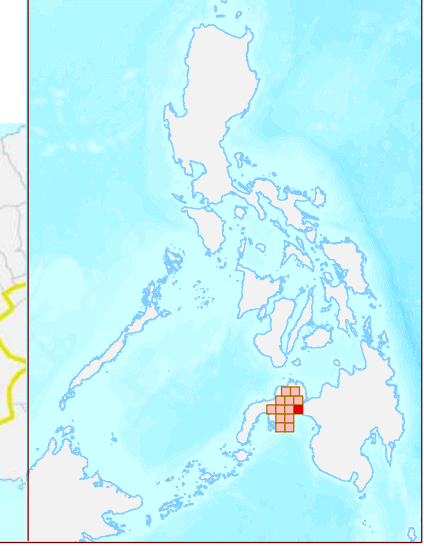
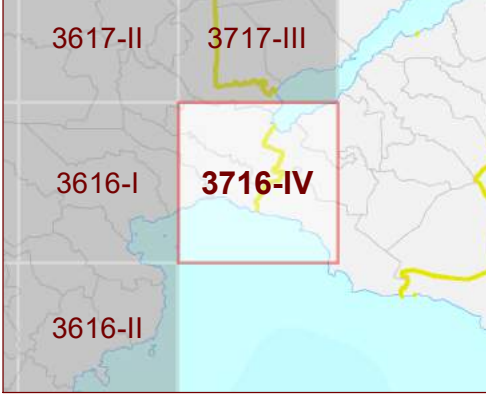
ROADS	BOUNDARY	HYDROLOGY
Expressway	Region	Sea / Shoreline
Trunk line	Province	Lakes / Rivers
Primary	District	
Secondary	Municipality	<b>PLACES</b>
Tertiary	Barangay	Capital City / City
		Capital Town / Town

**LAND USE**

- Built-up
- Fishpond
- Mangrove

#### ADJOINING SHEETS

3716-IV




#### MISCELLANEOUS INFORMATION

**SOURCES OF INFORMATION** : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soil Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** implemented by BSWM (2017).

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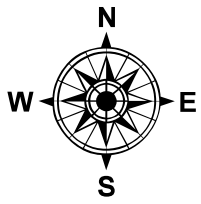
PROVINCE OF ZAMBOANGA DEL SUR Sheet 9 of 13 Sheet No. 3716-IV





## LAND SUITABILITY MAP ABACA

### LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
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#### LEGEND

##### SUITABILITY CLASSES

- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.
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**Not Suitable/ Not Relevant**

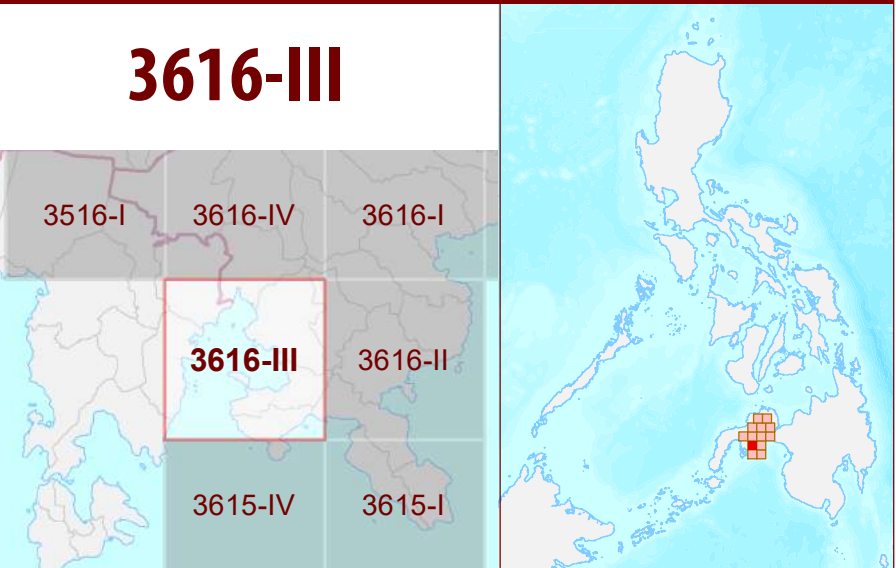
##### OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

#### CONVENTIONAL SIGNS

- ROADS**
  - Expressway
  - Trunk line
  - Primary
  - Secondary
  - Tertiary
- BOUNDARY**
  - Region
  - Province
  - District
  - Municipality
  - Barangay
- HYDROLOGY**
  - Sea / Shoreline
  - Lakes / Rivers
- PLACES**
  - Capital City / City
  - Capital Town / Town
- LAND USE**
  - Built-up
  - Fishpond
  - Mangrove

#### ADJOINING SHEETS



#### MISCELLANEOUS INFORMATION

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## LAND SUITABILITY MAP

### ABACA

#### LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

**SCALE 1 : 50 000**  
  
Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

**LEGEND**

**SUITABILITY CLASSES**

S1

**Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

S2

**Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

S3

**Marginally Suitable** - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

**Not Suitable/ Not Relevant**

**OTHER SIGNS**

NGP Areas

Cacao

Land limitation

Land use

**CONVENTIONAL SIGNS**

**ROADS**  
 Expressway  
 Trunk line  
 Primary  
 Secondary  
 Tertiary

**BOUNDARY**  
 Region  
 Province  
 District  
 Municipality  
 Barangay

**HYDROLOGY**  
 Sea / Shoreline  
 Lakes / Rivers  
**PLACES**  
 Capital City / City  
 Capital Town / Town

**LAND USE**  
 Built-up  
 Fishpond  
 Mangrove

**ADJOINING SHEETS**

3616-IV

3616-I

3716-IV

3616-III

**3616-II**

3615-IV

3615-I

**INDEX MAP**

**MISCELLANEOUS INFORMATION**

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PROVINCE OF ZAMBOANGA DEL SUR

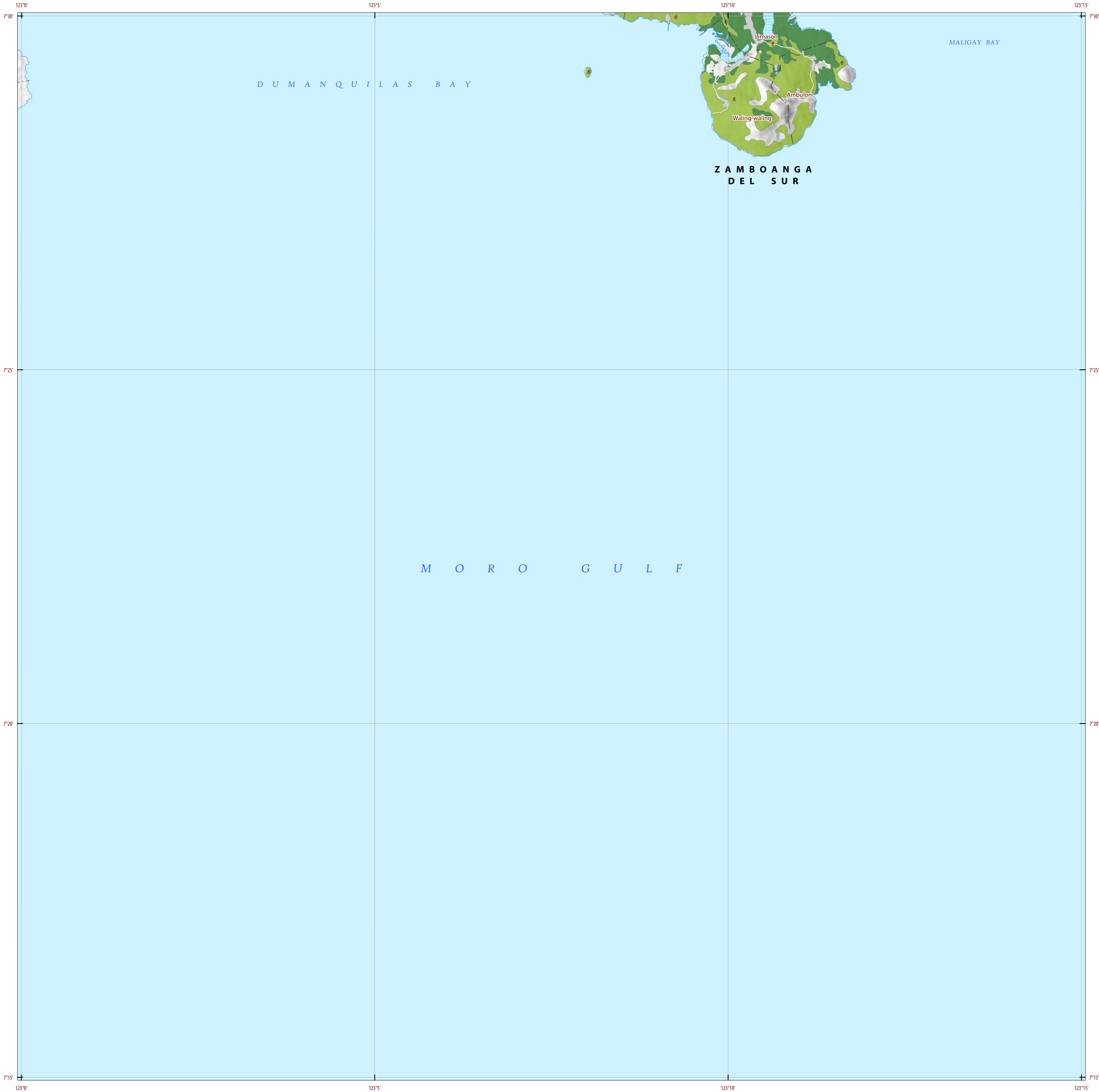
Sheet 11 of 13 Sheet No. 3616-II



3615-IV

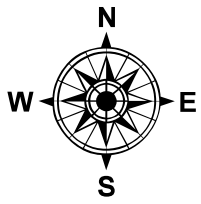
PROVINCE OF ZAMBOANGA DEL SUR

Mount Butalion



LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
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LEGEND

SUITABILITY CLASSES

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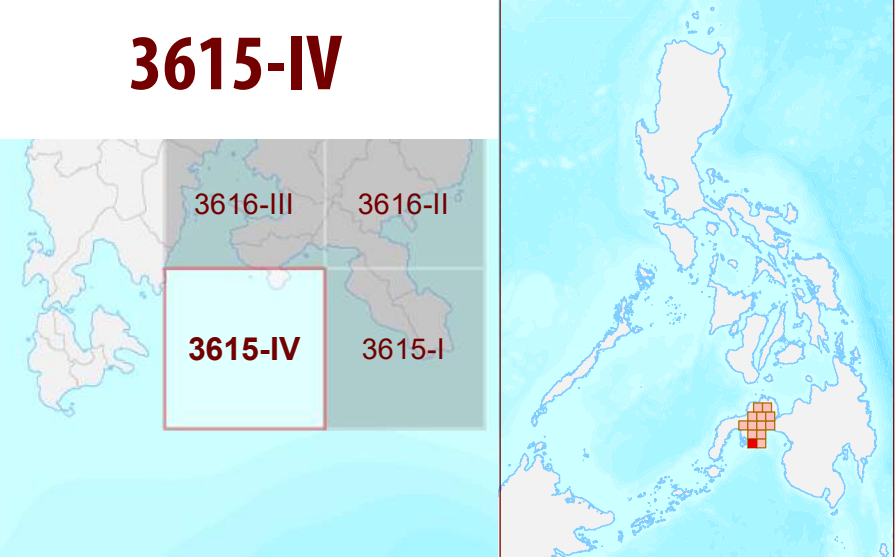
OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**: Expressway, Trunk line, Primary, Secondary, Tertiary
- BOUNDARY**: Region, Province, District, Municipality, Barangay
- HYDROLOGY**: Sea / Shoreline, Lakes / Rivers
- PLACES**: Capital City / City, Capital Town / Town
- LAND USE**: Built-up, Fishpond, Mangrove

ADJOINING SHEETS



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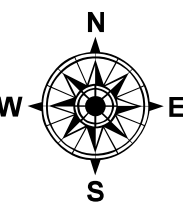






LAND SUITABILITY MAP  
ABACA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000

00.512345

Kilometers

00.5123

Miles

Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

S1

Highly Suitable

- Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

S2

Moderately Suitable

- Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

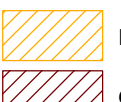
S3


Marginally Suitable


- Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

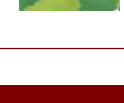
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

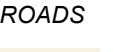
Cacao


Land limitation

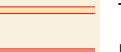
Land use


CONVENTIONAL SIGNS


ROADS

Expressway


Trunk line


Primary

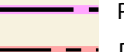
Secondary


Tertiary

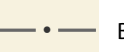
BOUNDARY

Region


Province


District

Municipality


Barangay


HYDROLOGY

Sea / Shoreline


Lakes / Rivers


PLACES


Capital City / City

Capital Town / Town

LAND USE

Built-up

Fishpond

Mangrove

ADJOINING SHEETS

3615-I

3616-III3616-II

3615-IV3615-I

INDEX MAP



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