

# **LAND SUITABILITY MAP**

## **ROBUSTA, LIBERICA AND EXCELSA COFFEE**

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

### **PROVINCE OF DAVAO ORIENTAL**



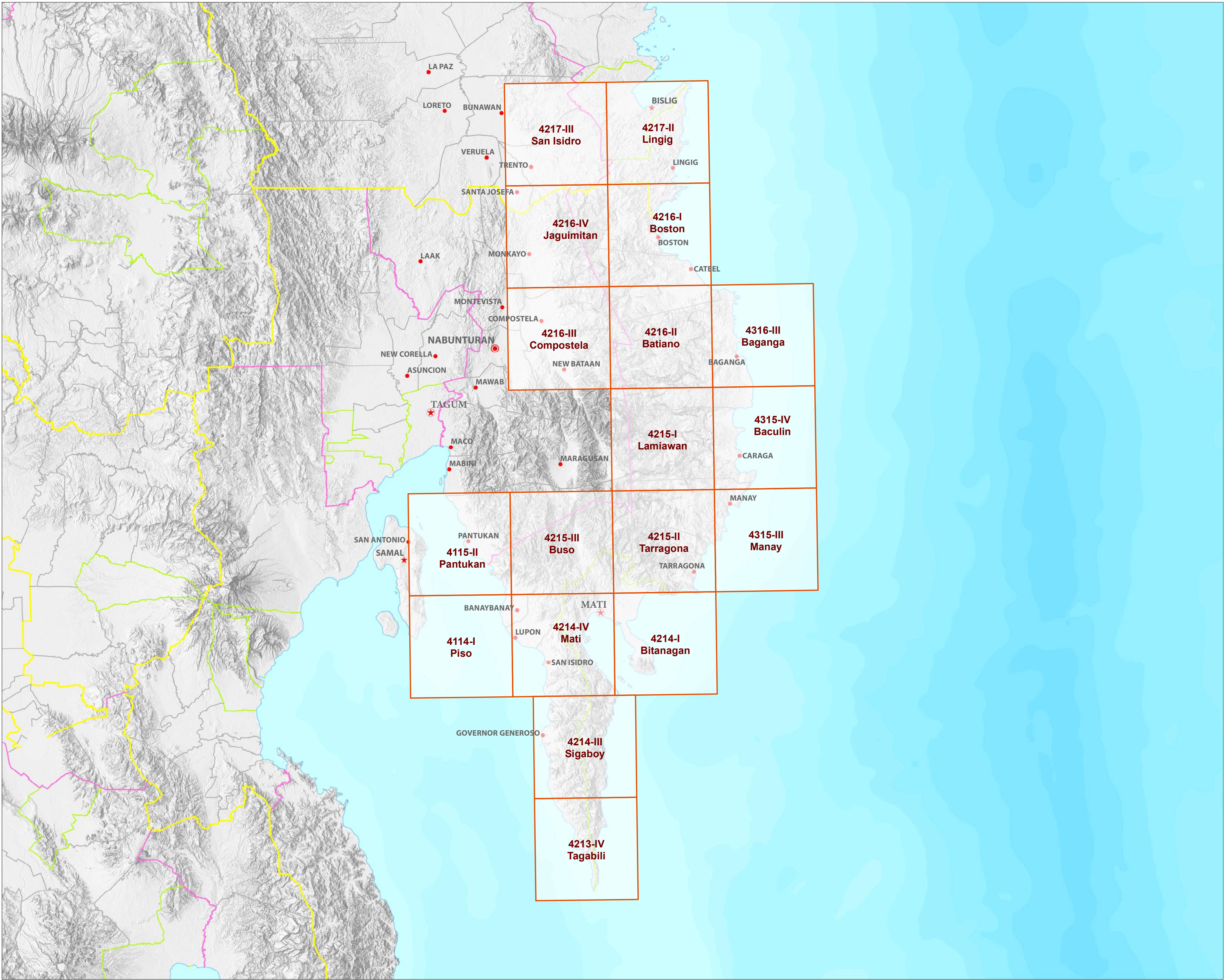
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## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF DAVAO ORIENTAL



**LEGEND**

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

**Administrative Boundary**

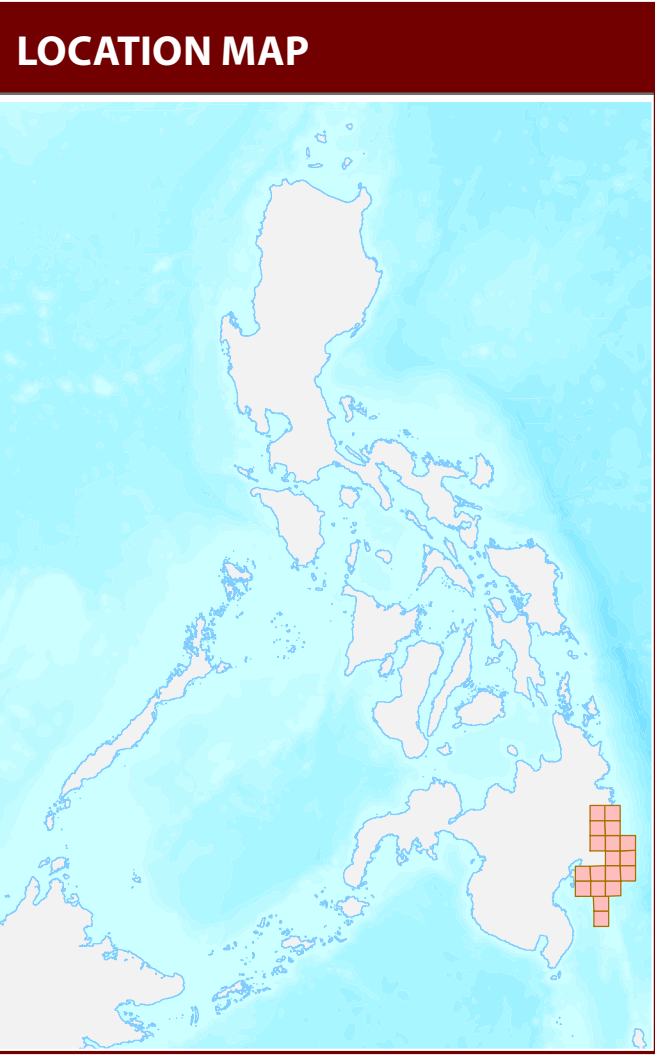
- Regional
- Provincial
- City
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**Map Index**

- 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 ROBUSTA, LIBERICA AND EXCELSA COFFEE

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS DAVAO ORIENTAL, REGION XI

### EXTENT OF SUITABILITY FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING COFFEE (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)								CONFLICT RESOLUTION AREA (Ha)								TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Banana		Corn		Mango		Other crops				
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2					
BAGANGA	-	-	-	-	1,123	197	6,439	4,445	26	26	2,258	2,605	59	21	-	-	4	2	17,204		
BANAYBANAY	-	-	-	-	2,272	11	77	141	883	94	70	-	20	-	3	-	1	-	3,572		
BOSTON	3	-	1	4	1,122	-	2,066	26	245	-	-	-	73	-	-	-	-	-	3,532		
CARAGA	-	-	-	-	1,496	1,139	96	260	509	203	-	-	-	-	-	-	-	-	3,703		
CATEEL	94	38	1,349	1,481	1,846	175	6,474	1,975	573	88	669	685	369	7	-	-	-	-	12,861		
CITY OF MATI	15	-	9	24	10,315	2,076	518	27	474	80	363	33	451	67	651	136	2,588	251	18,030		
GOVERNOR GENEROSO	-	-	-	-	3,509	-	672	-	730	-	549	-	20	-	1	-	-	-	5,481		
LUPON	-	-	25	25	4,154	62	1,290	70	150	62	4,546	34	184	-	9	-	10	-	10,572		
MANAY	-	-	-	-	4,150	2,587	31	21	1,869	1,819	-	-	-	-	-	-	-	-	10,477		
SAN ISIDRO	-	-	-	-	3,154	678	-	-	362	100	332	9	78	18	266	8	-	-	5,004		
TARRAGONA	-	-	52	52	74	231	-	-	11	451	255	19	42	103	78	7	9	-	1,282		
TOTAL	112	38	1,436	1,586	33,215	7,157	17,663	6,976	6,271	2,727	8,806	3,408	1,357	190	937	153	2,603	255	91,718		

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

### SUITABILITY CLASSES:

<div></div> <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.	<div></div> <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.
<div></div> <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.	<div></div> <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.

### AGRONOMIC REQUIREMENT OF ROBUSTA, LIBERICA AND EXCELSA COFFEE 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
Coffee (Robusta, Excelsa, Liberica)	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 - 7.2	high	none-slight	none-slight	none-few	<1000	2001-4500	I, III, IV
	S2	8 - 30	30 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	1000-2000	1000-2000	I, II
	S3	>30	<30	S, LS, CSL, SL	VPD,ED	<5.0 -> 7.9	low	severe	severe	many	>2000	<1000 >4500	

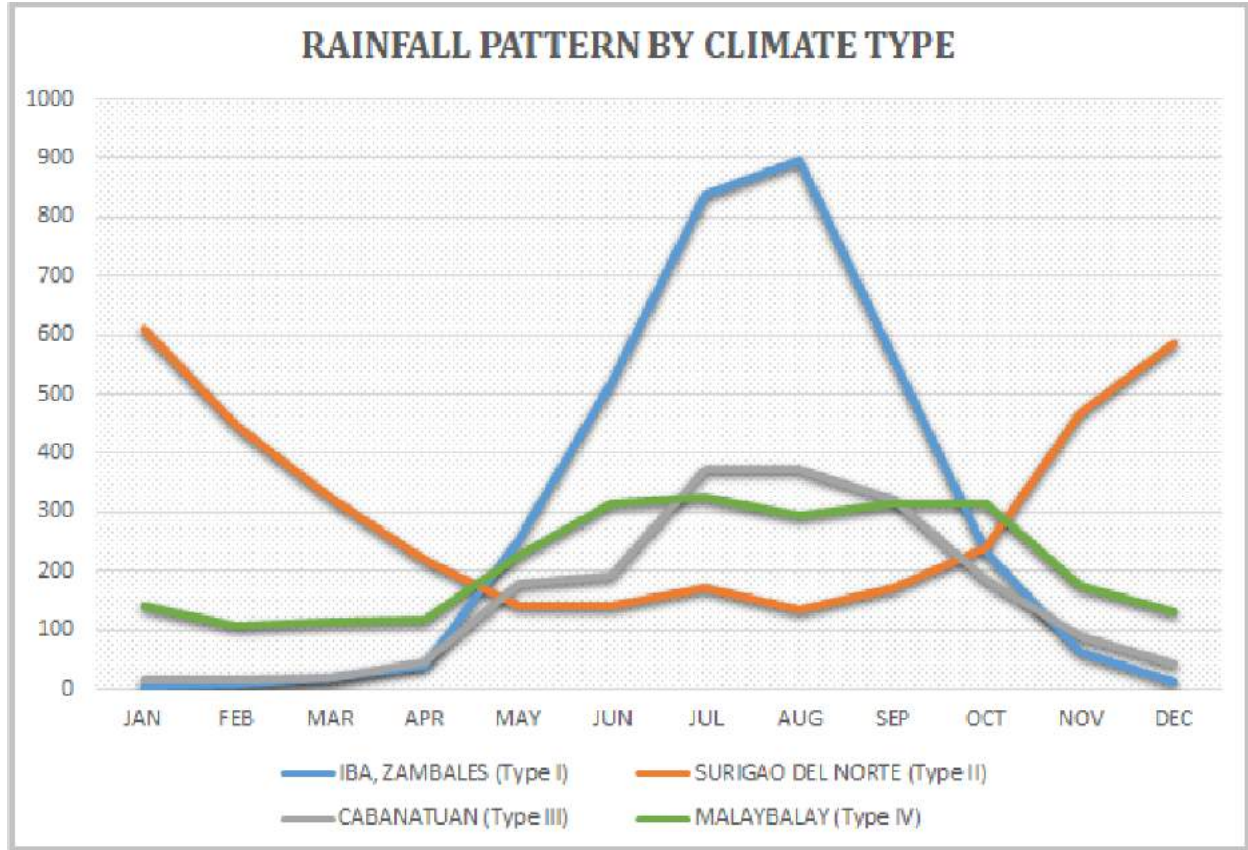
<b>SLOPE (%)</b> 0 - 3 - level to gently sloping 3 - 8 - gently sloping to undulating 8 - 18 - undulating to rolling 18 - 30 - rolling to moderately steep 30 - 50 - steep > 50 - very steep	<b>SOIL DRAINAGE</b> ED - excessively drained WD - well drained MWD - moderately well drained SPD - somewhat poorly 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 - 1000m - 2000m EI3 - > 2000m	<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 seasonal 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	CODE	LIMITATION	CODE	LIMITATION
1	E2	11	EI2-Sh2-Rc2	21	T2-E3-Rc2	31	T2-F3-D2	41	T3-EI3-E3-Sh3-Rc3	51	T3-F3-D2
2	E2-Rc3	12	EI2-Sh2-Rc3	22	T2-E3-Rc3	32	T3	42	T3-F2-D2	52	T3-EI3
3	E2-Sh2-Rc2	13	F2-D2	23	T2-E3-Sh2-Rc2	33	T3-E3	43	T3-F3-D2	53	Tc
4	E2-Sh2-Rc3	14	F3-D2	24	T2-E3-Sh2-Rc3	34	T3-E3-Rc2	44	T3		
5	E3-Rc3	15	Rc2	25	T2-EI2-E3-Rc2	35	T3-E3-Sh2-Rc3	45	T3-E3		
6	E3-Sh2-Rc3	16	Sh2	26	T2-EI2-E3-Rc3	36	T3-E3-Sh3-Rc2	46	T3-E3-Rc3		
7	EI2-E2-Sh2-Rc3	17	Sh2-Rc2	27	T2-EI2-E3-Sh2-Rc2	37	T3-E3-Sh3-Rc3	47	T3-E3-Sh3-Rc3		
8	EI2-E3-Rc3	18	Sh2-Rc3	28	T2-EI2-E3-Sh2-Rc3	38	T3-EI2-E3-Sh2-Rc3	48	T3-EI2-E3-Sh3-Rc3		
9	EI2-E3-Sh2-Rc3	19	T2	29	T2-EI3-E3-Sh2-Rc3	39	T3-EI2-E3-Sh3-Rc2	49	T3-EI3-E3-Sh3-Rc3		
10	EI2-Rc2	20	T2-E3	30	T2-F2-D2	40	T3-EI2-E3-Sh3-Rc3	50	T3-F2-D2		

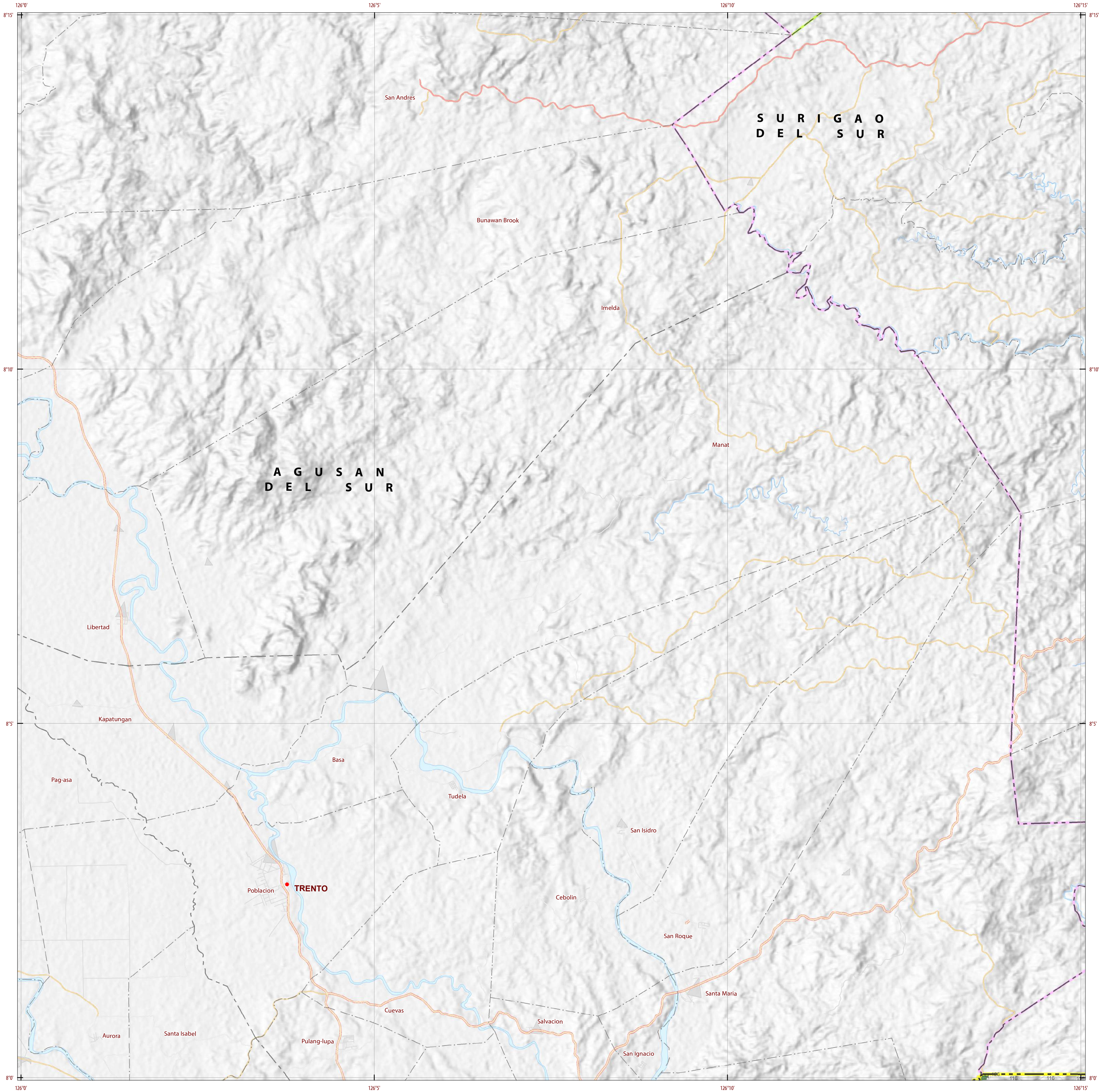
CODE	LANDUSE	CODE	LANDUSE
4	Corn	107	Abaca
47	Vegetable	116	Coconut
50	Rootcrops	126	Grassland
51	Cassava	134	Shrubs, unmanaged
81	Coffee	137	Rubber
82	Cacao		
85	Mango		
90	Pomelo		
91	Banana		
105	Fruit trees, mixed		



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>>.

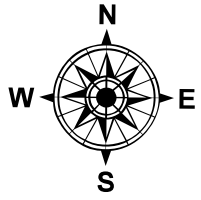
Davao Oriental is classified as climatic Type IV.



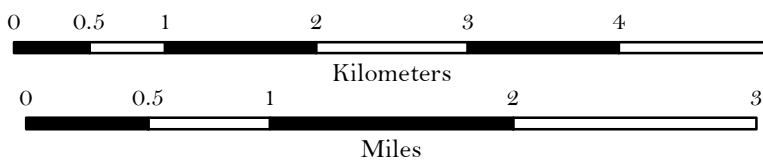


# LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

## 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**

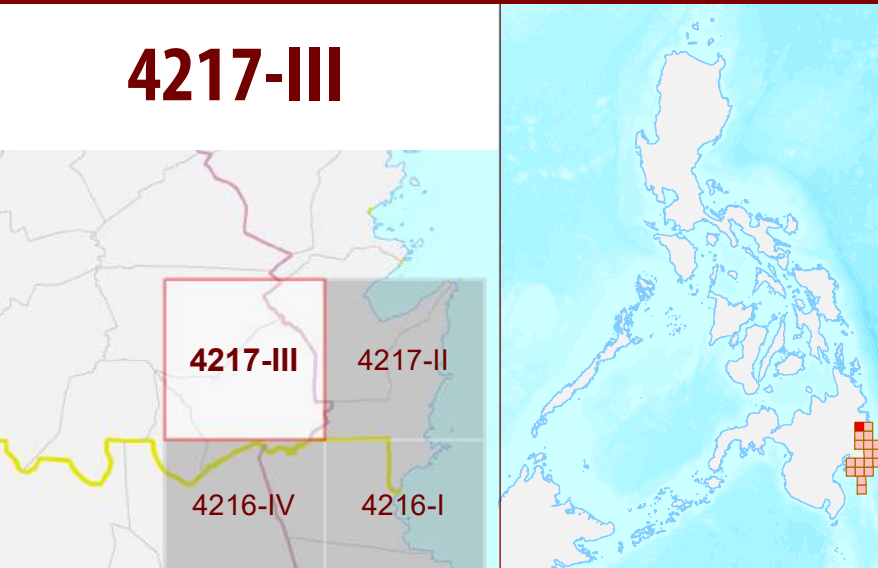
#### OTHER SIGNS

- 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



### MISCELLANEOUS INFORMATION

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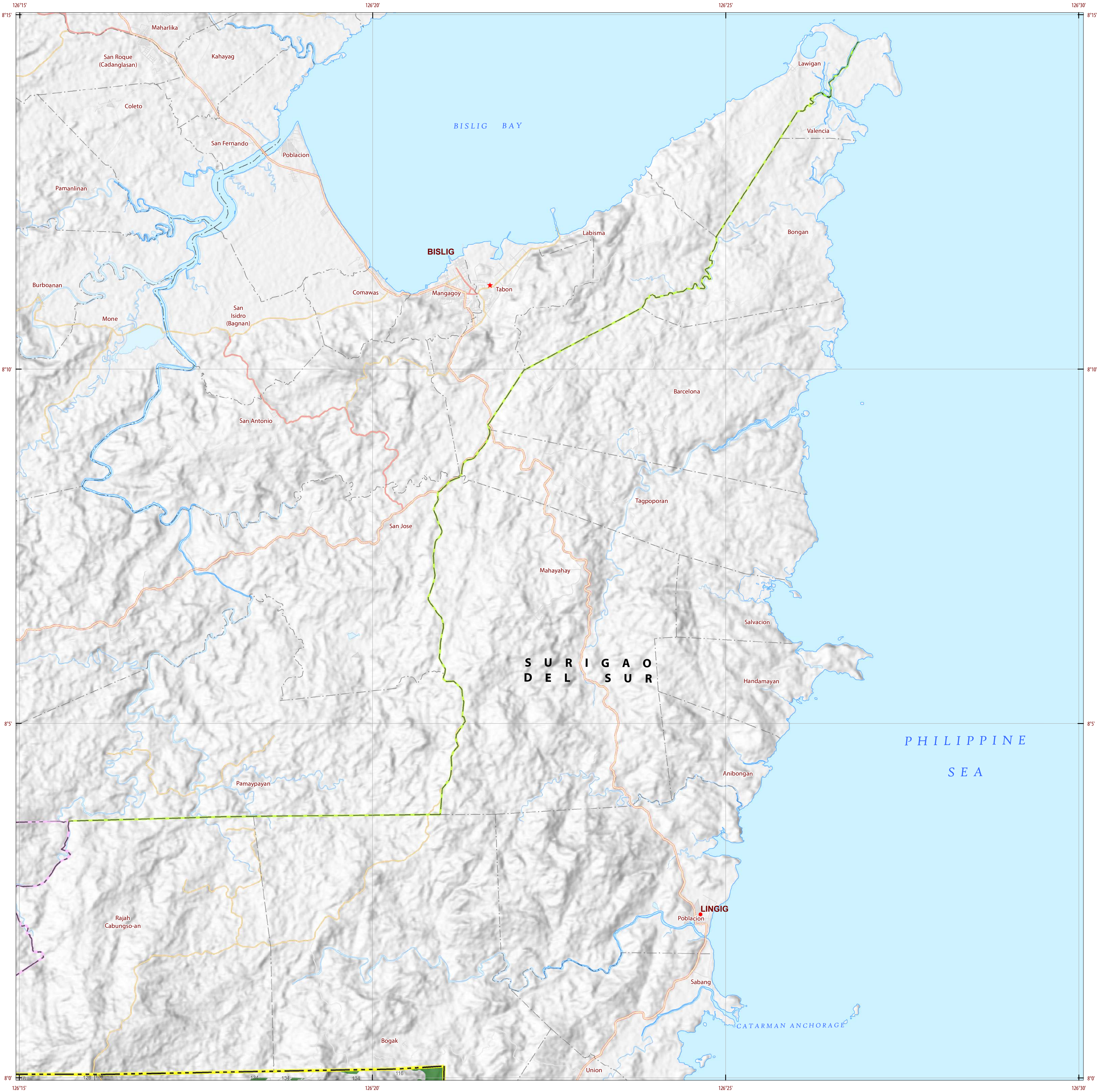
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GIS and Cartography : IRVIN K. SAMALCA  
Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)  
Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)  
: Department of Agriculture and Fisheries - 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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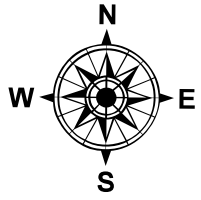
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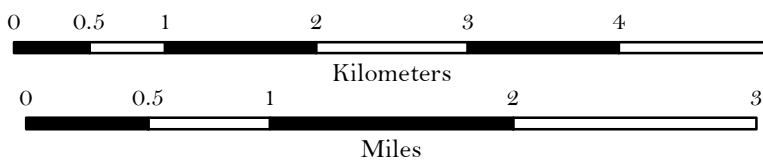


LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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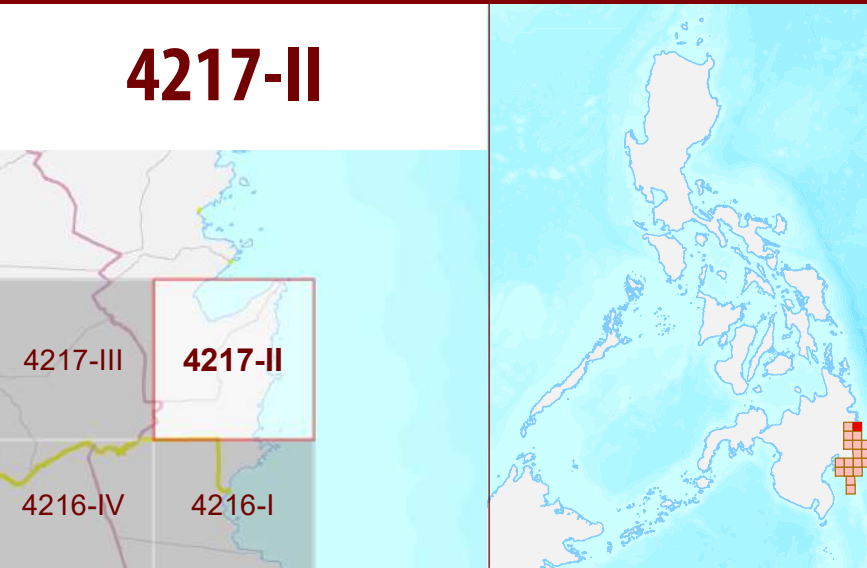
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

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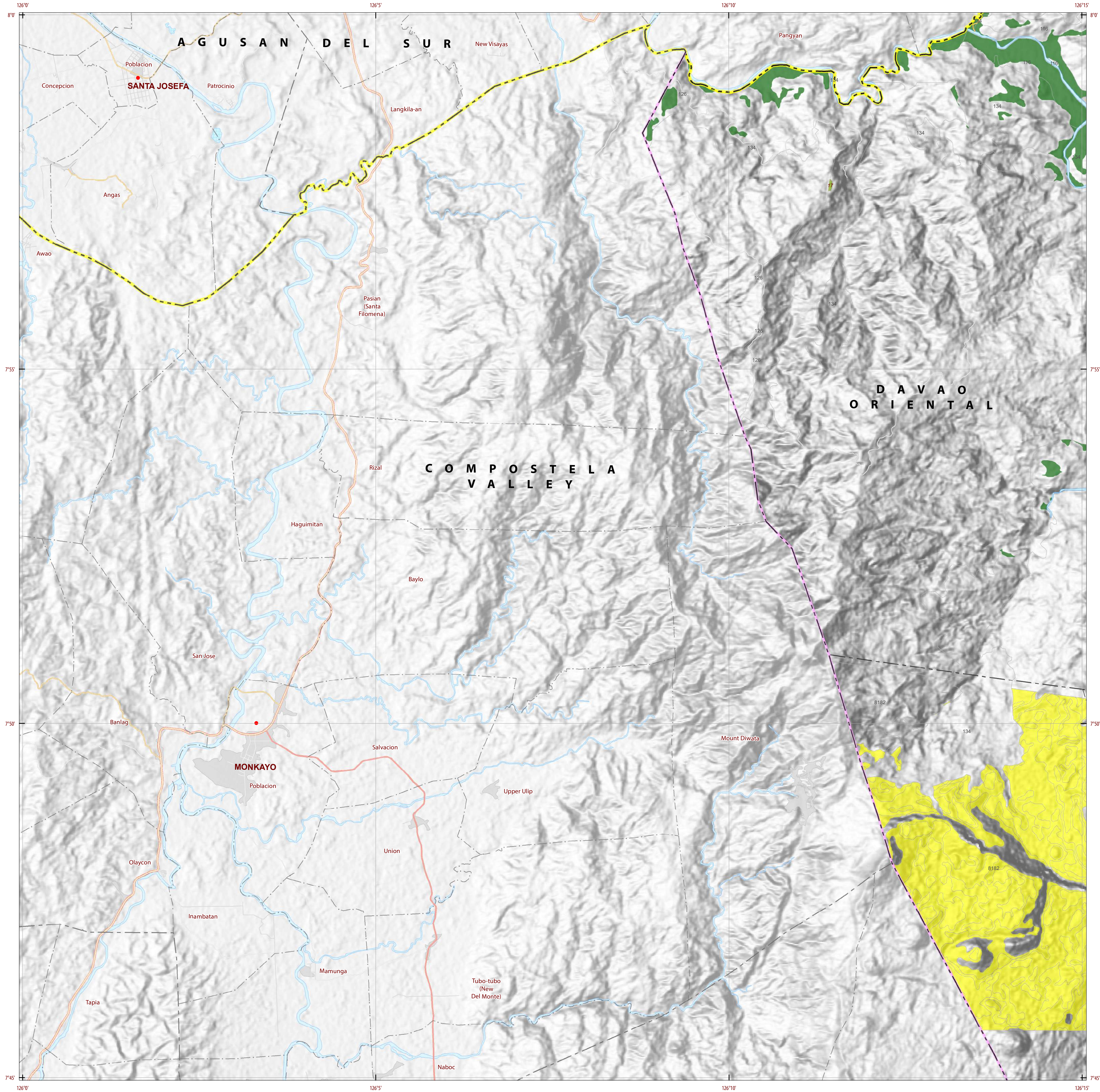
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4216-IV

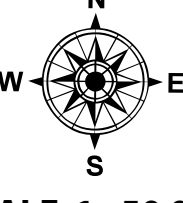
PROVINCE OF DAVAO ORIENTAL

Jaguimitan

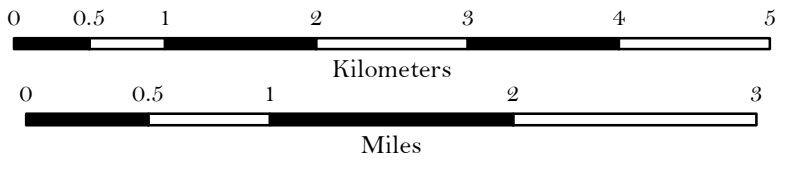


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ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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- NGP Areas
- Cacao
- Land limitation
- Land use

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**ROADS**

- Expressway
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- Primary
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- Tertiary

**BOUNDARY**

- Region
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**HYDROLOGY**

- Sea / Shoreline
- Lakes / Rivers

**PLACES**

- Capital City / City
- Capital Town / Town

**LAND USE**

- Built-up
- Fishpond
- Mangrove

**ADJOINING SHEETS**

**4216-IV**

**INDEX MAP**

**MISCELLANEOUS INFORMATION**

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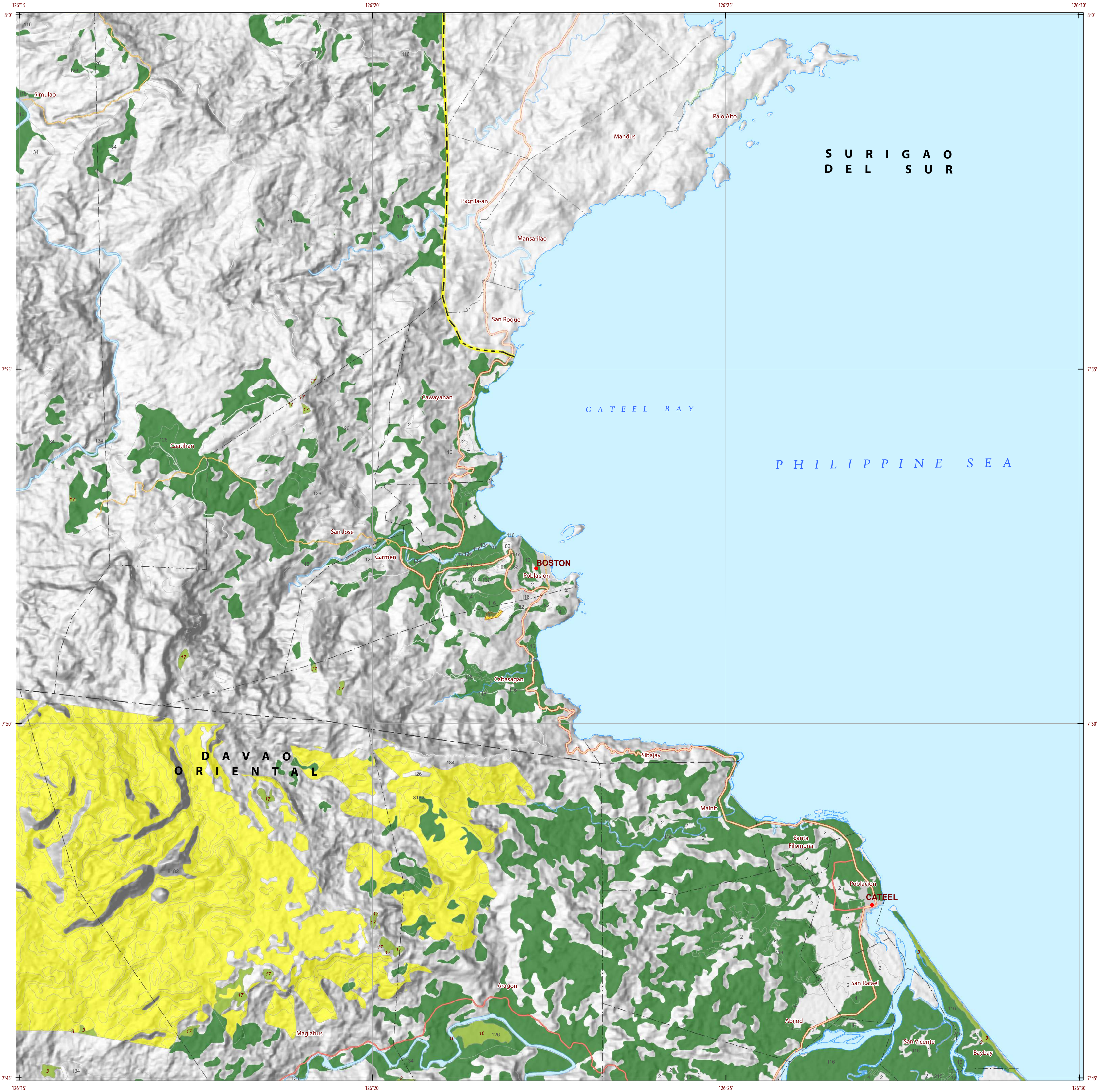
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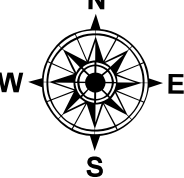




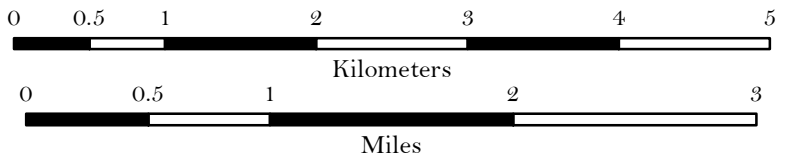


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SUITABILITY CLASSES

S1

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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

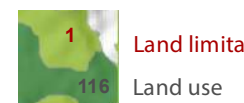
Marginally Suitable - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.


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

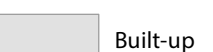
 Lakes / Rivers


PLACES

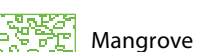
 Capital City / City

 Capital Town / Town

LAND USE


 Built-up

 Fishpond

 Mangrove

ADJOINING SHEETS

4216-I



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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GIS and Cartography : IRVIN K. SAMALCA


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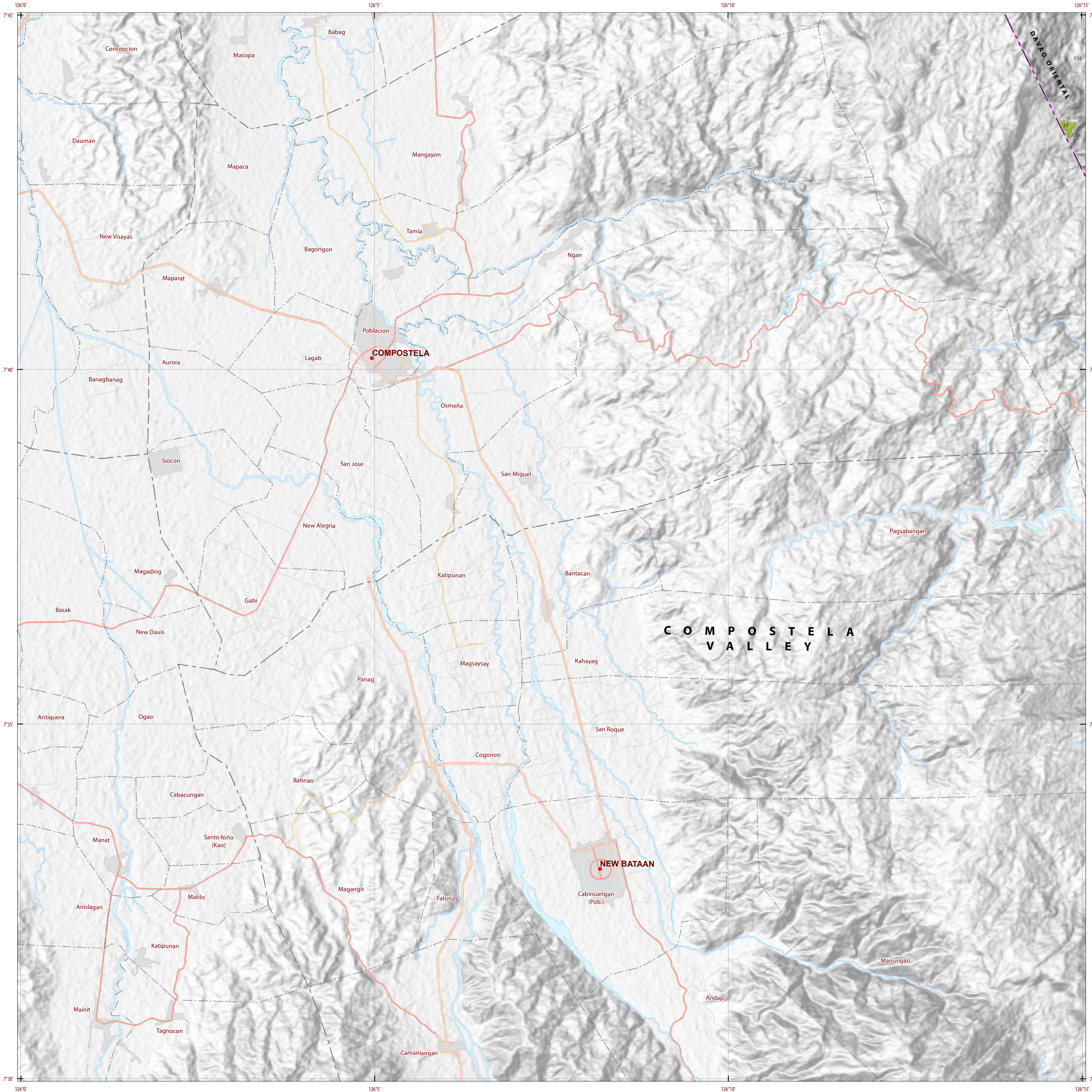
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BUREAU OF SOILS AND WATER MANAGEMENT  
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Tel/Fax No. : (+632) 332-9534 E-mail : bswmcenter@da.gov.ph

PROVINCE OF DAVAO ORIENTAL

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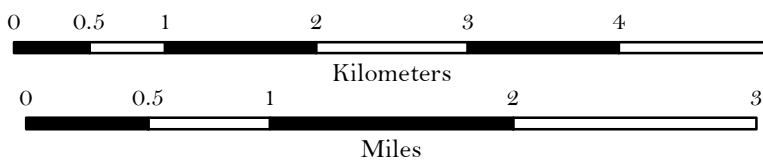


## LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

### 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**

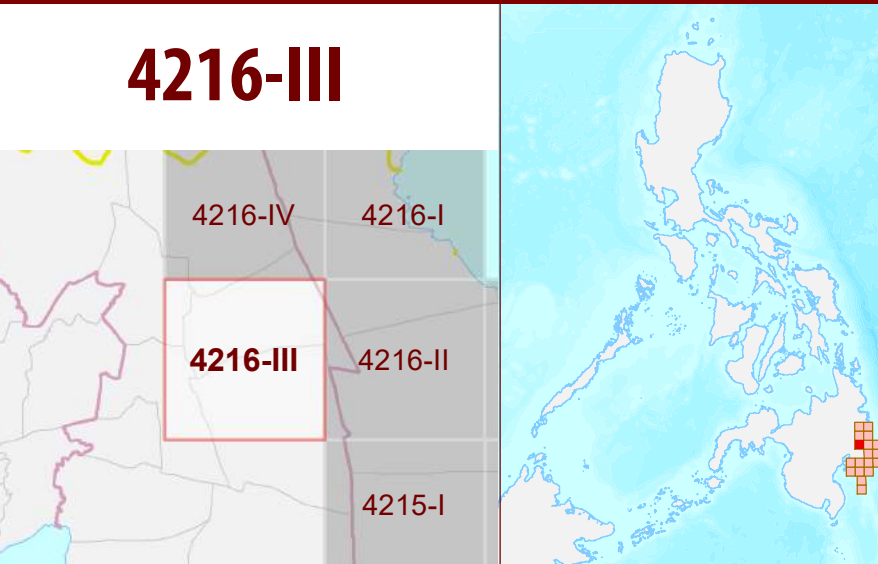
##### OTHER SIGNS

- 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



#### MISCELLANEOUS INFORMATION

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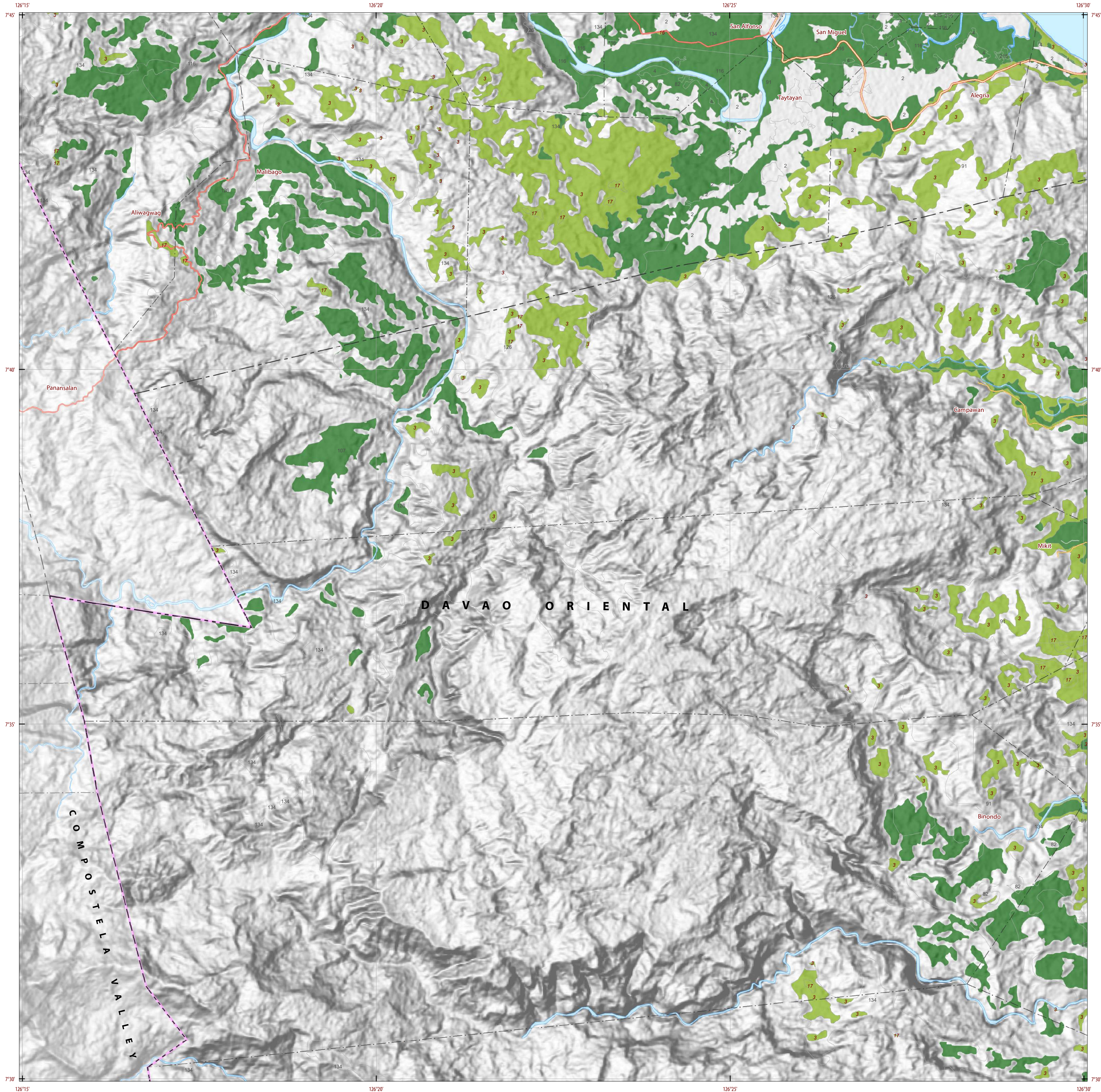
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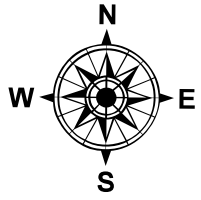
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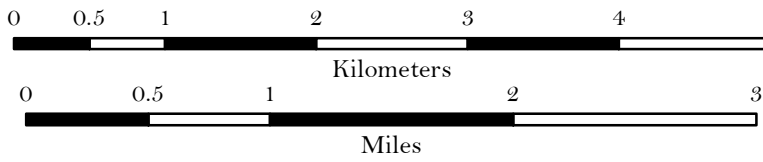


**LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE**

**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** - 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**

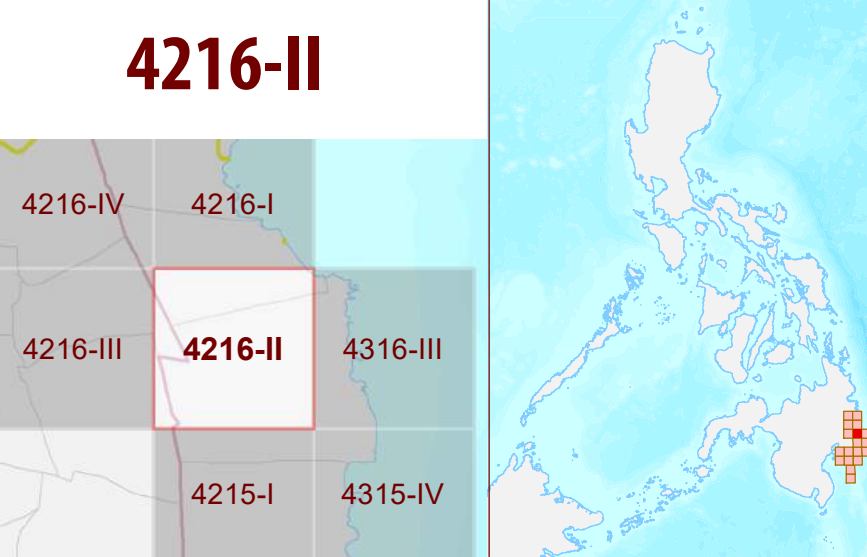
**OTHER SIGNS**

- 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**



**MISCELLANEOUS INFORMATION**

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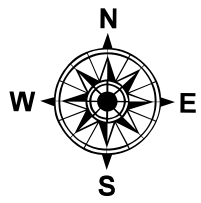




# LAND SUITABILITY MAP

## ROBUSTA, LIBERICA AND EXCELSA COFFEE

### 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

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4216-II

4215-I

**4316-III**

4315-IV

#### INDEX MAP

#### MISCELLANEOUS INFORMATION

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BUREAU OF SOILS AND WATER MANAGEMENT

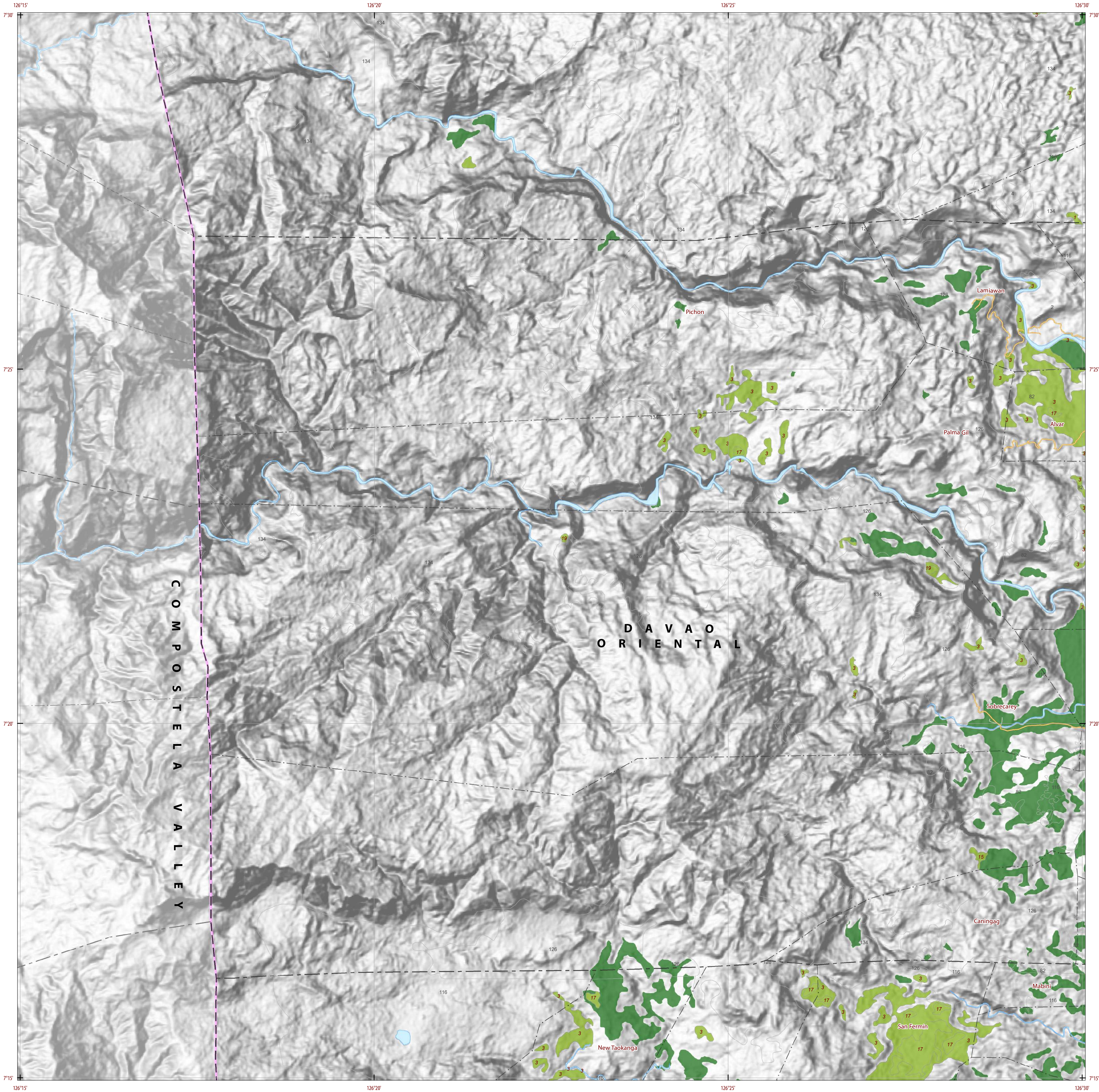
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PROVINCE OF DAVAO ORIENTAL

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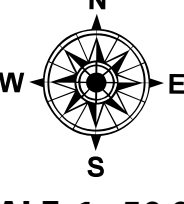






LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE

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  
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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.

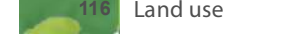
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

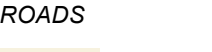
Cacao


Land limitation

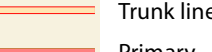
Land use

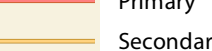
CONVENTIONAL SIGNS

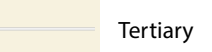
ROADS

Expressway


Trunk line


Primary

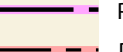
Secondary

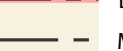
Tertiary

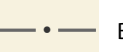
BOUNDARY

Region

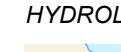
Province


District

Municipality


Barangay


HYDROLOGY

Sea / Shoreline

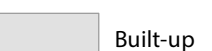
Lakes / Rivers


PLACES

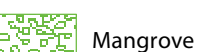
Capital City / City

Capital Town / Town

LAND USE

Built-up

Fishpond

Mangrove

ADJOINING SHEETS

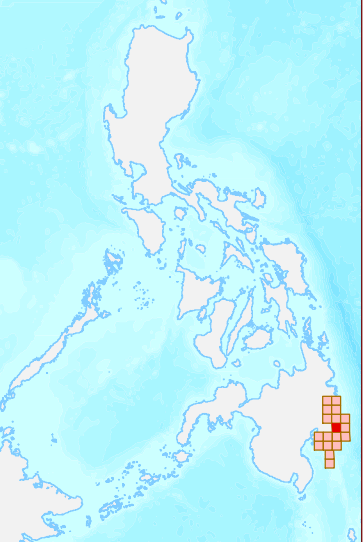
INDEX MAP

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4215-III4215-II4315-III



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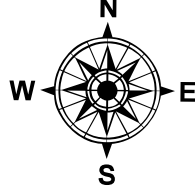








**LAND SUITABILITY MAP**  
**ROBUSTA, LIBERICA**  
**AND EXCELSA COFFEE**

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


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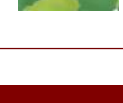
**Not Suitable/ Not Relevant**

**OTHER SIGNS**

 NGP Areas

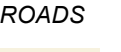
 Cacao


 Land limitation

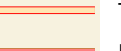
 Land use


**CONVENTIONAL SIGNS**


**ROADS**

 Expressway


 Trunk line


 Primary


 Secondary

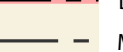
 Tertiary

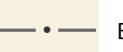
**BOUNDARY**

 Region


 Province


 District

 Municipality


 Barangay


**HYDROLOGY**

 Sea / Shoreline


 Lakes / Rivers


**PLACES**


 Capital City / City

 Capital Town / Town

**LAND USE**

 Built-up

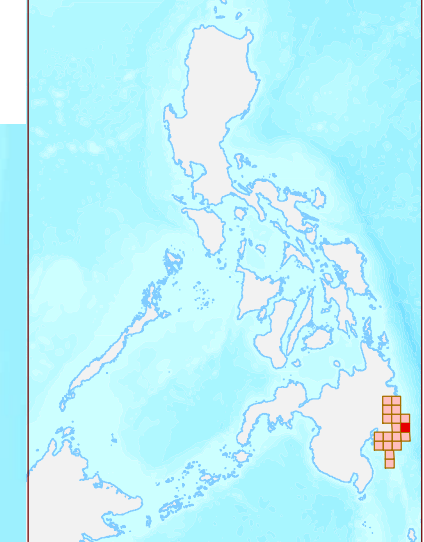
 Fishpond

 Mangrove

**ADJOINING SHEETS**

**INDEX MAP**

4315-IV



**MISCELLANEOUS INFORMATION**

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Tel/Fax No. : (+632) 332-9534 E-mail: [bswmclientservice@yahoo.com](mailto:bswmclientservice@yahoo.com)







### LAND SUITABILITY MAP

### ROBUSTA, LIBERICA

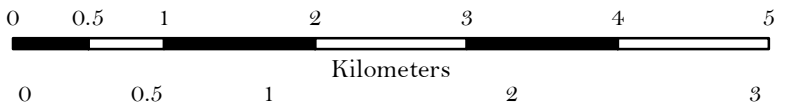
### AND EXCELSA COFFEE

#### 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

#### INDEX MAP


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DEPARTMENT OF AGRICULTURE

BUREAU OF SOILS AND WATER MANAGEMENT

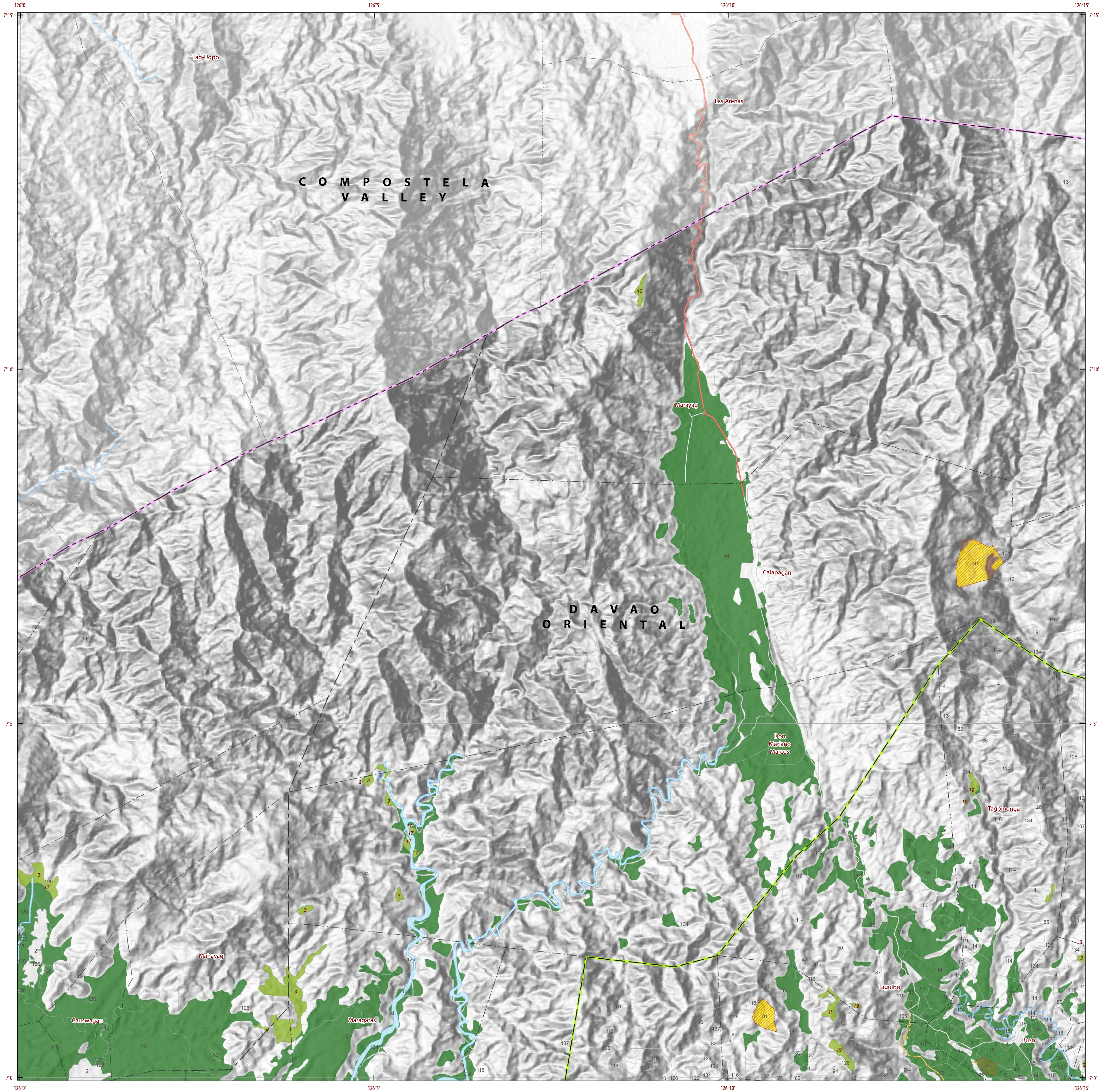
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PROVINCE OF DAVAO ORIENTAL

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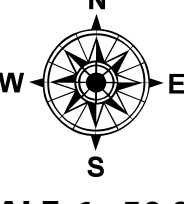




# LAND SUITABILITY MAP

## ROBUSTA, LIBERICA AND EXCELSA COFFEE

### 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

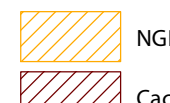
**Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive,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

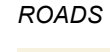
 Cacao


 Land limitation

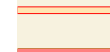
 Land use


#### CONVENTIONAL SIGNS


##### ROADS

 Expressway

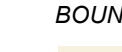
 Trunk line


 Primary


 Secondary


 Tertiary


##### BOUNDARY

 Region

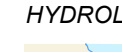
 Province


 District

 Municipality

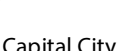
 Barangay

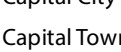
##### HYDROLOGY

 Sea / Shoreline


 Lakes / Rivers


##### PLACES


 Capital City / City

 Capital Town / Town

##### LAND USE

 Built-up

 Fishpond

 Mangrove

#### ADJOINING SHEETS

4215-III

4115-II

4114-I

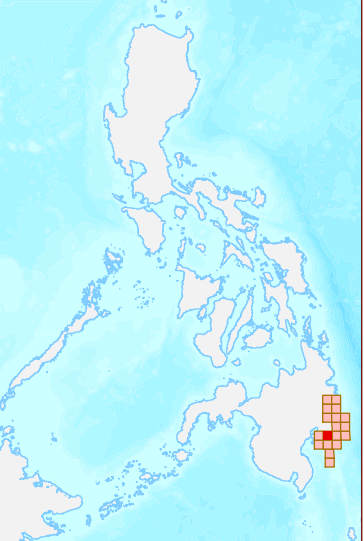
4215-I

4215-II

4214-IV

4214-I

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#### MISCELLANEOUS INFORMATION

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PROVINCE OF DAVAO ORIENTAL

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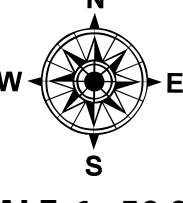






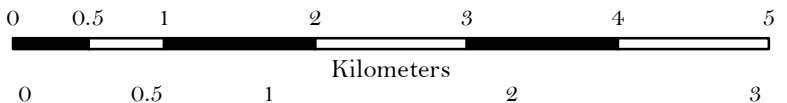
LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

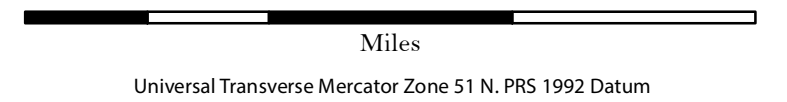


N  
W E  
S

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.

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

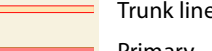
 Land limitation

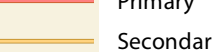
 Land use

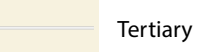
CONVENTIONAL SIGNS


ROADS

 Expressway


 Trunk line


 Primary


 Secondary


 Tertiary


BOUNDARY

 Region


 Province


 District

 Municipality


 Barangay


HYDROLOGY


 Sea / Shoreline

 Lakes / Rivers

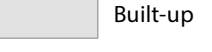
PLACES

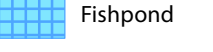
 Municipality

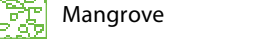
 Capital City / City

 Capital Town / Town

LAND USE

 Built-up

 Fishpond

 Mangrove

ADJOINING SHEETS

4215-II

4215-I 4315-IV  
4215-III 4215-II 4315-III  
4214-IV 4214-I

INDEX MAP

MISCELLANEOUS INFORMATION

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PROVINCE OF DAVAO ORIENTAL Sheet 12 of 18 Sheet No. 4215-II





### LAND SUITABILITY MAP

### ROBUSTA, LIBERICA

### AND EXCELSA COFFEE

#### 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 / ShorelineLakes / Rivers

**PLACES**

Capital City / CityCapital Town / Town

**LAND USE**

Built-upFishpondMangrove

**ADJOINING SHEETS**

4315-III

4215-I

4315-IV

4215-II

4315-III

4214-I

**INDEX MAP**

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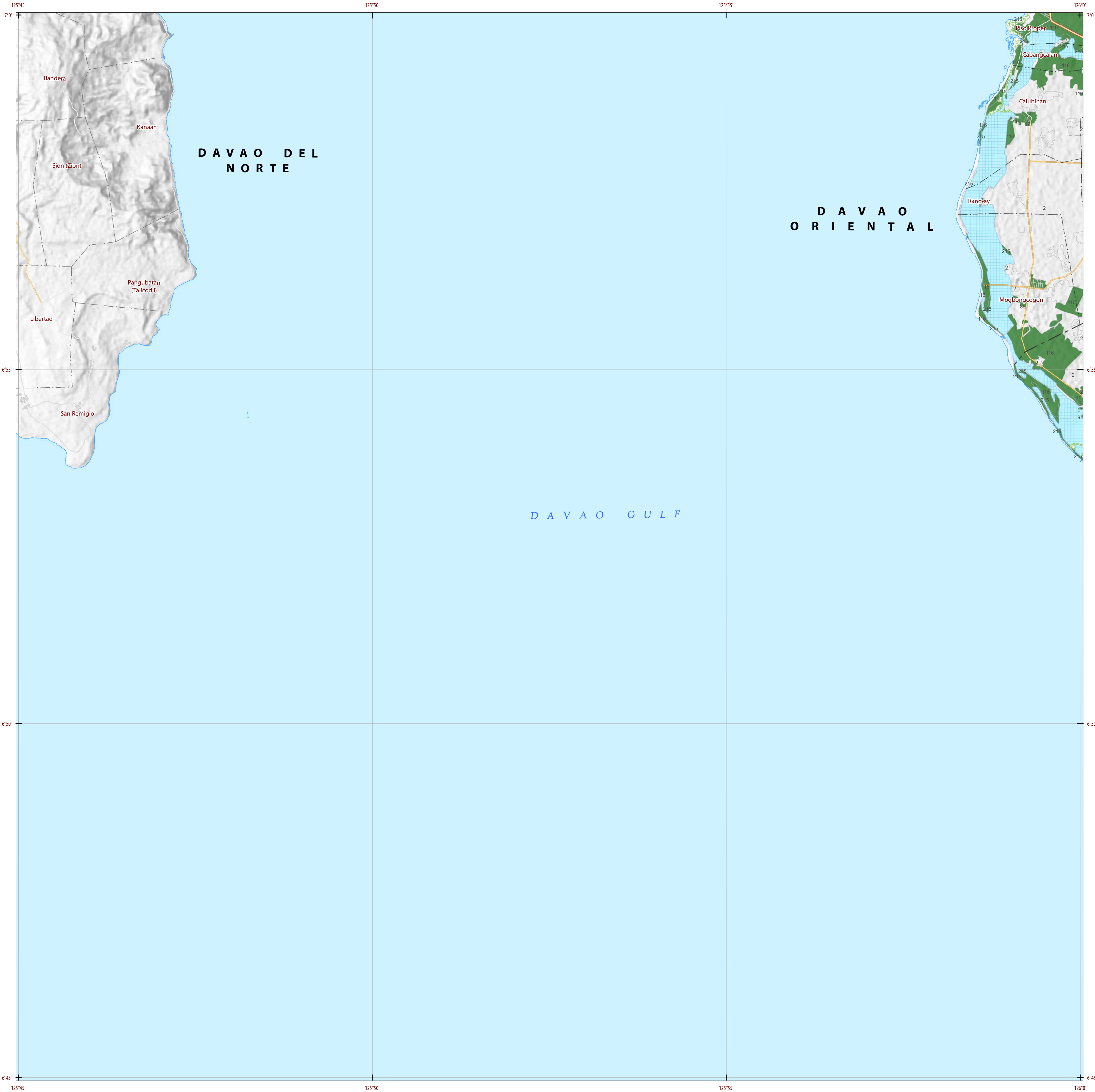
Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)  
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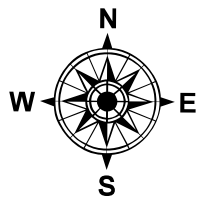








LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE

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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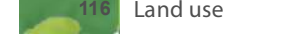
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

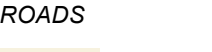
Cacao


Land limitation

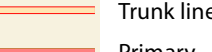
Land use

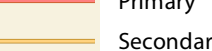
CONVENTIONAL SIGNS

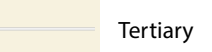
ROADS

Expressway


Trunk line


Primary

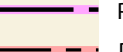
Secondary

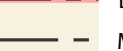
Tertiary

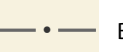
BOUNDARY

Region

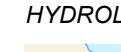
Province


District

Municipality


Barangay


HYDROLOGY

Sea / Shoreline

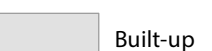
Lakes / Rivers


PLACES

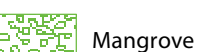
Capital City / City

Capital Town / Town

LAND USE

Built-up

Fishpond

Mangrove

ADJOINING SHEETS

4114-I

4115-II 4215-III  
4114-I 4214-IV  
4214-III

INDEX MAP

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), Soils 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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GIS and Cartography : IRVIN K. SAMALCA

Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)

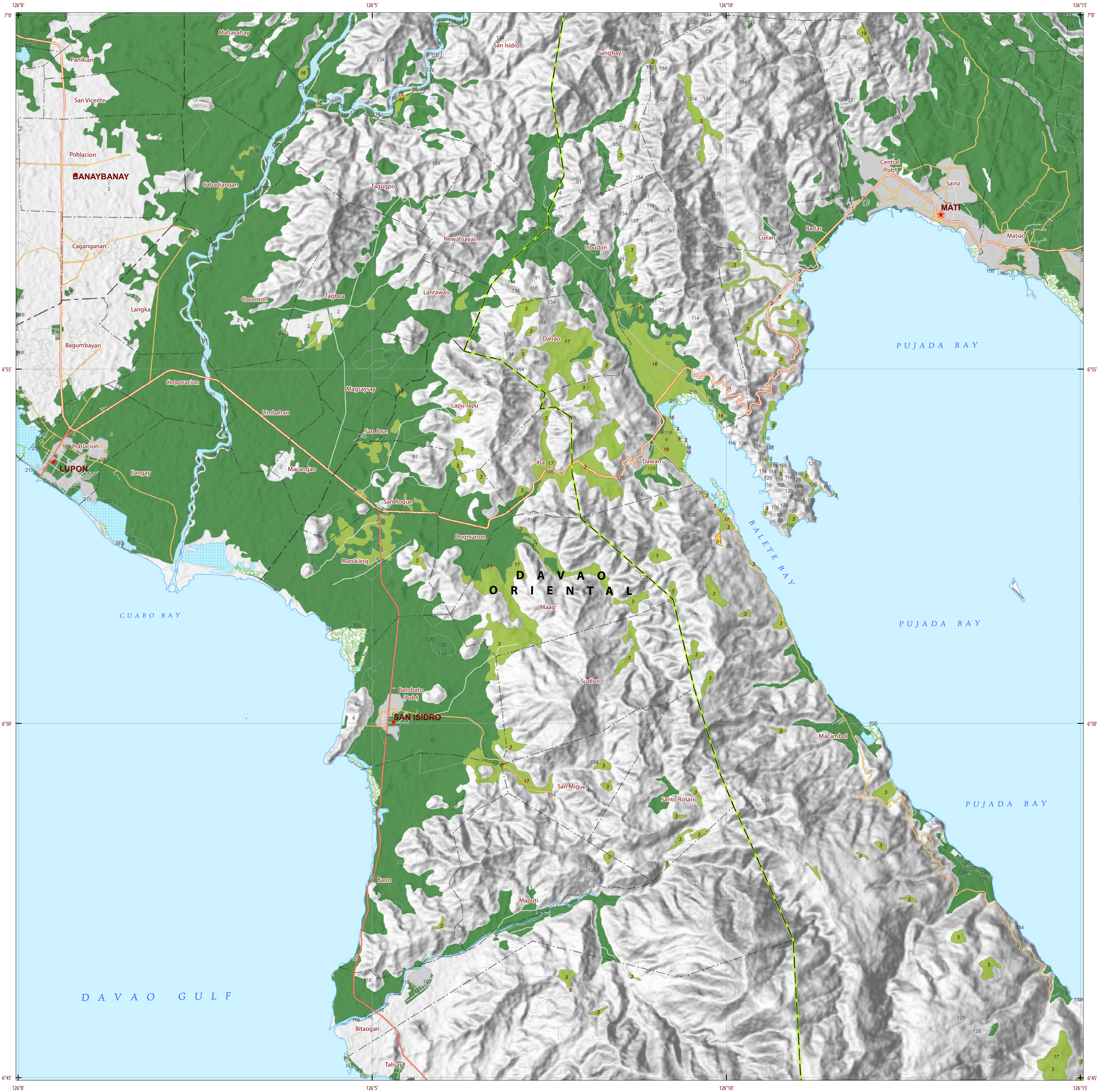
Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)  
: Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga)  
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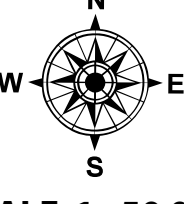
### LAND SUITABILITY MAP

### ROBUSTA, LIBERICA


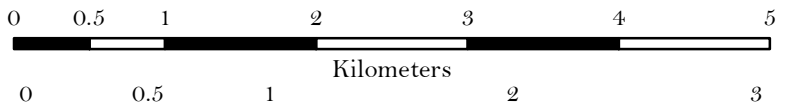
### AND EXCELSA COFFEE

#### 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

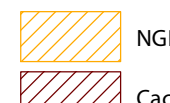
**Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive,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

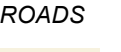
 Cacao


 Land limitation

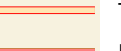
 Land use


#### CONVENTIONAL SIGNS


##### ROADS

 Expressway


 Trunk line


 Primary


 Secondary

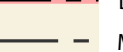
 Tertiary

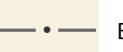
##### BOUNDARY

 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

4115-II

4215-III

4215-II

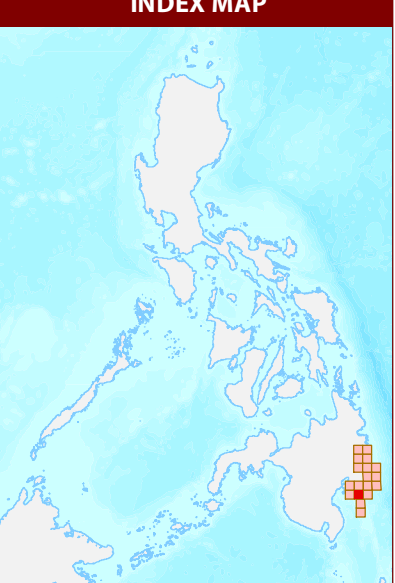
4114-I

**4214-IV**

4214-I

4214-III

#### INDEX MAP



#### MISCELLANEOUS INFORMATION

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DEPARTMENT OF AGRICULTURE

**BUREAU OF SOILS AND WATER MANAGEMENT**




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PROVINCE OF DAVAO ORIENTAL

Sheet 15 of 18 Sheet No. 4214-IV







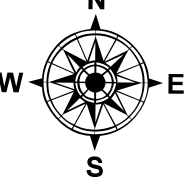
LAND SUITABILITY MAP

ROBUSTA, LIBERICA


AND EXCELSA COFFEE


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

4214-I

4215-III

4215-II

4315-III

4214-IV

4214-I

4214-III

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MISCELLANEOUS INFORMATION

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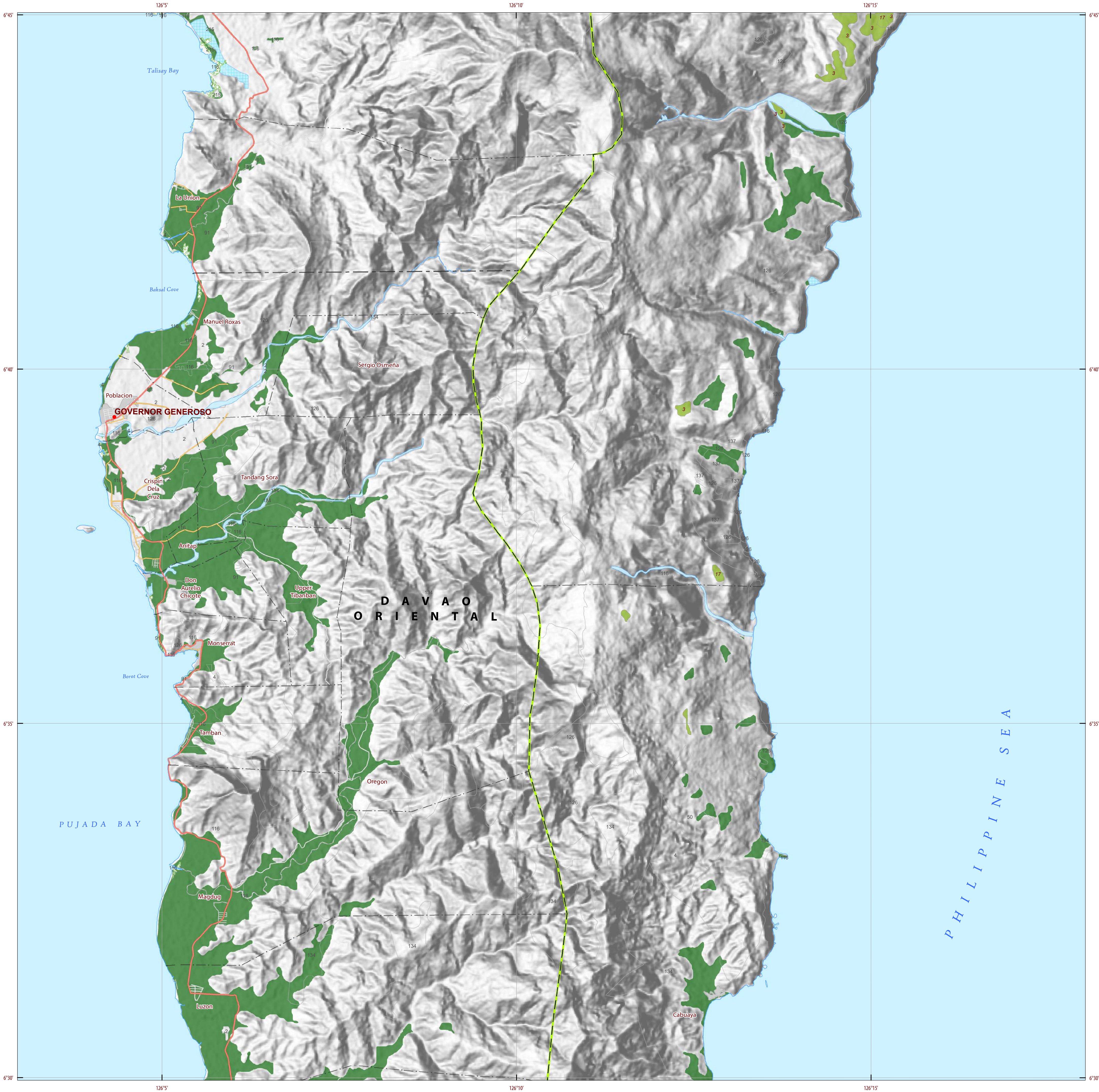
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PROVINCE OF DAVAO ORIENTAL

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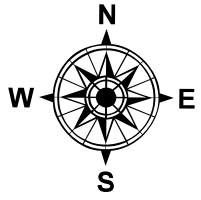
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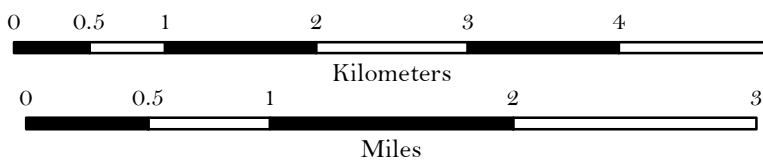


LAND SUITABILITY MAP  
ROBUSTA, LIBERICA  
AND EXCELSA COFFEE

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** - 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**

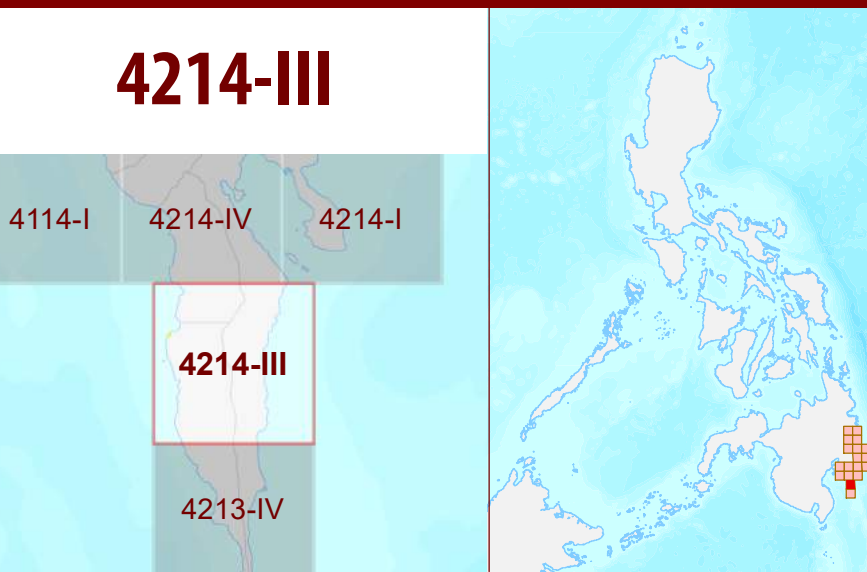
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

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## LAND SUITABILITY MAP

### ROBUSTA, LIBERICA AND EXCELSA COFFEE

#### 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

<b>ROADS</b> <ul style="list-style-type: none"><li>Expressway</li><li>Trunk line</li><li>Primary</li><li>Secondary</li><li>Tertiary</li></ul>	<b>BOUNDARY</b> <ul style="list-style-type: none"><li>Region</li><li>Province</li><li>District</li><li>Municipality</li><li>Barangay</li></ul>	<b>HYDROLOGY</b> <ul style="list-style-type: none"><li>Sea / Shoreline</li><li>Lakes / Rivers</li></ul> <b>PLACES</b> <ul style="list-style-type: none"><li>Capital City / City</li><li>Capital Town / Town</li></ul>
-----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

##### LAND USE

- Built-up
- Fishpond
- Mangrove

#### ADJOINING SHEETS

**4213-IV**

#### INDEX MAP

#### MISCELLANEOUS INFORMATION

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