

# **LAND SUITABILITY MAP**

## **NATURAL RUBBER**

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

### **PROVINCE OF DAVAO DEL SUR**

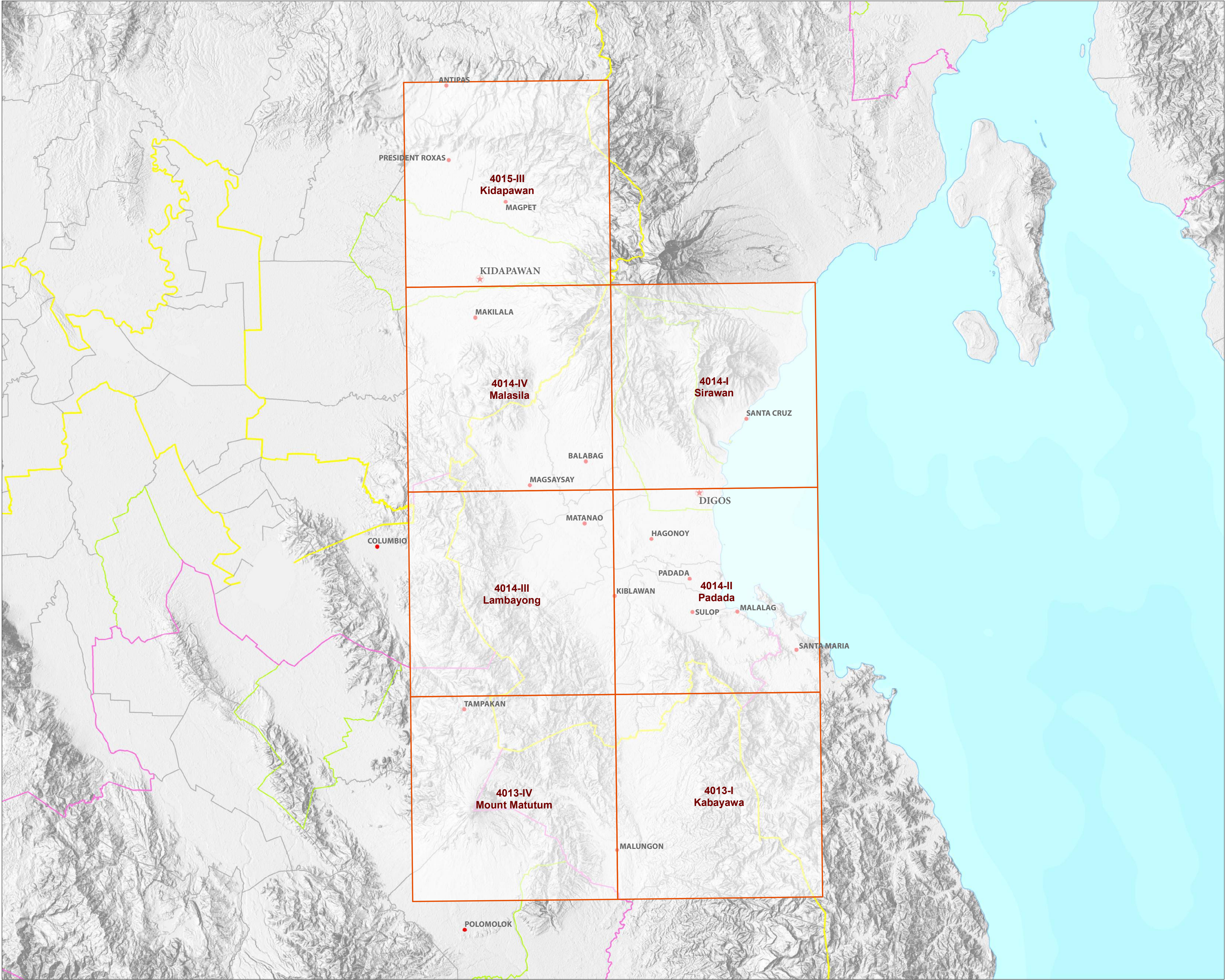


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DEPARTMENT OF AGRICULTURE  
**BUREAU OF SOILS AND WATER MANAGEMENT**

SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101  
Tel/Fax No.: (+632) 332-9534 E-mail: [bswmclientcenter@yahoo.com](mailto:bswmclientcenter@yahoo.com)

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



**LEGEND**

**Places**

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

**Administrative Boundary**

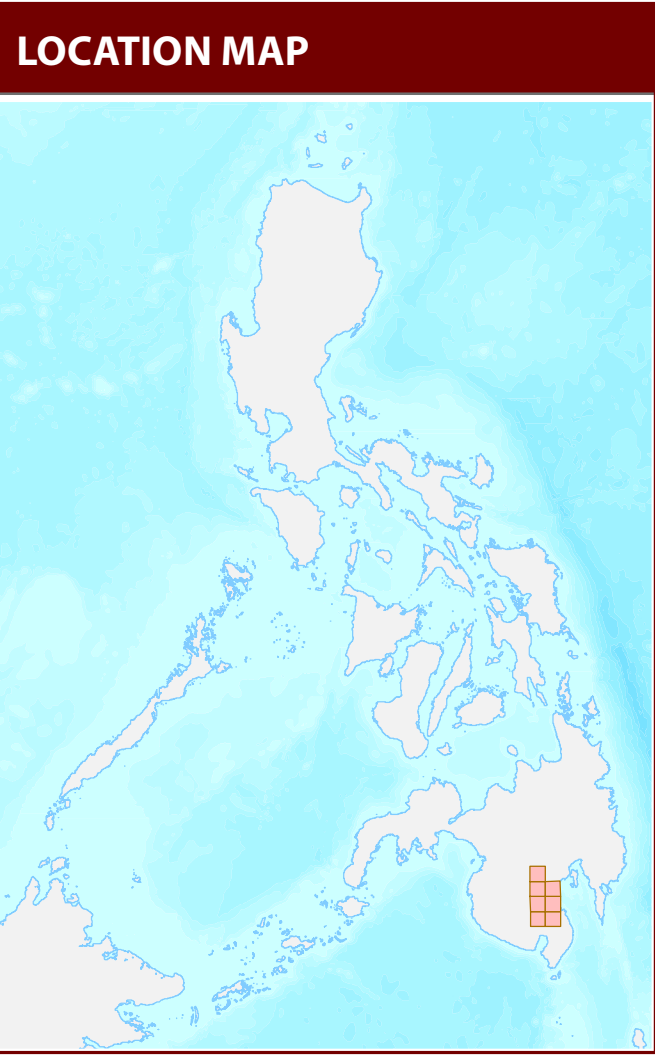
- Regional
- Provincial
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- Municipal

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**Topographic Relief**

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**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 (PCA-F) 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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SRDC Bldg., Elliptical Road Cor. Visayas Avenue,  
Diliman, Quezon City 1101 Philippines  
Tel/Fax No.: (+632) 332-9534 E-mail: bswwclientcenter@yahoo.com

# LAND SUITABILITY MAP FOR RUBBER

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

### EXTENT OF SUITABILITY FOR RUBBER PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING RUBBER (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION (Ha)										TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Mango		Banana		Corn		Sugarcane		Other crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2			
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2			
BANSALAN	86	105	6	197	3,019	2,960	-	108	-	-	1,371	1,151	-	1	23	1	19	10	11	146	8,820
CITY OF DIGOS	8	-	-	8	2,631	948	13	-	31	8	627	43	65	-	47	-	16	1	115	60	4,605
HAGONOY	-	-	-	-	678	14	-	-	-	-	96	2	1,214	105	42	1	13	-	187	78	2,429
KIBLAWAN	-	-	-	-	450	1,099	-	179	-	553	13	17	756	1,012	417	1,215	754	622	-	-	7,086
MAGSAYSAY	8	10	232	250	2,465	3,028	-	9	-	280	301	122	-	-	37	89	-	-	1,196	838	8,365
MALALAG	-	-	-	-	2,783	2,820	13	43	1	77	83	44	447	95	125	30	17	4	-	-	6,583
MATANAO	1	-	-	1	742	1,186	-	-	-	254	3,436	602	18	-	338	217	688	18	21	47	7,566
PADADA	-	-	-	-	1,586	86	-	-	-	-	21	9	677	80	72	1	-	-	-	-	2,531
SANTA CRUZ	-	-	-	-	2,465	2,948	-	-	59	9	1	-	105	106	-	-	-	-	177	700	6,569
SULOP	2	-	-	2	3,605	1,850	6	140	-	10	82	53	478	1,089	131	29	31	30	-	-	7,534
TOTAL	106	116	238	459	20,424	16,939	32	478	91	1,192	6,030	2,042	3,759	2,487	1,231	1,584	1,537	685	1,707	1,869	62,089

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

### SUITABILITY CLASSES:

**Highly Suitable (S1)**  
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.

**Marginally Suitable (S3)**  
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.

**Moderately Suitable (S2)**  
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.

**Not Suitable / Not Relevant**  
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 RUBBER 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
Rubber Tree	S1	<8	>100	CL, SiCL, SCL, SC, SIC, C, HC	WD,MWD, SPD	5.6 - 7.2	high	none-slight	none-slight	none-few	<500	1000-2000	III, IV
	S2	8 - 30	30 - 100	FSL, L, SiL, SL	PD,VPD	4.5 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1000	2001-4500	I, II, III
	S3	>30	<30	S, LS, CSL	ED	<4.5 - > 7.9	low	severe	severe	many	>1000	<1000 >4500	

#### SLOPE (%)

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

#### SOIL DRAINAGE

ED - excessively drained  
WD - well drained  
MWD - moderately well drained  
SPD - somewhat poorly drained  
PD - poorly drained  
VPD - very poorly drained

#### SOIL REACTION (pH)

< 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

#### SOIL TEXTURE

##### Coarse

S - sand  
LS - loamy sand  
CSL - coarse sandy loam  
SL - sandy loam

##### Medium

FSL - fine sandy loam  
L - loam  
SIL - silt loam  
CL - clay loam  
SiCL - silty clay loam  
SCL - sandy clay loam

##### Fine

SC - sandy clay  
SiC - silty clay  
C - clay  
HC - heavy clay

### LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

#### ELEVATION

EI2 - 500 - 1000m or 2000 - 2500m  
EI3 - < 500m or > 2500m

#### SOIL DRAINAGE

D2 - Somewhat poorly drained to poorly drained  
D3 - Very poorly drained or excessively drained

#### SOIL DEPTH

Sh2 - Shallow to moderately deep (30 - 100cm)  
Sh3 - Very shallow (< 30cm)

#### SOIL EROSION

E2 - Moderate erosion  
E3 - Severe erosion

#### SLOPE/TOPOGRAPHY

T2 - Undulating to moderately steep  
T3 - Steep to very steep

#### SOIL TEXTURE

Tc - Coarse texture

#### ROCK OUTCROPS

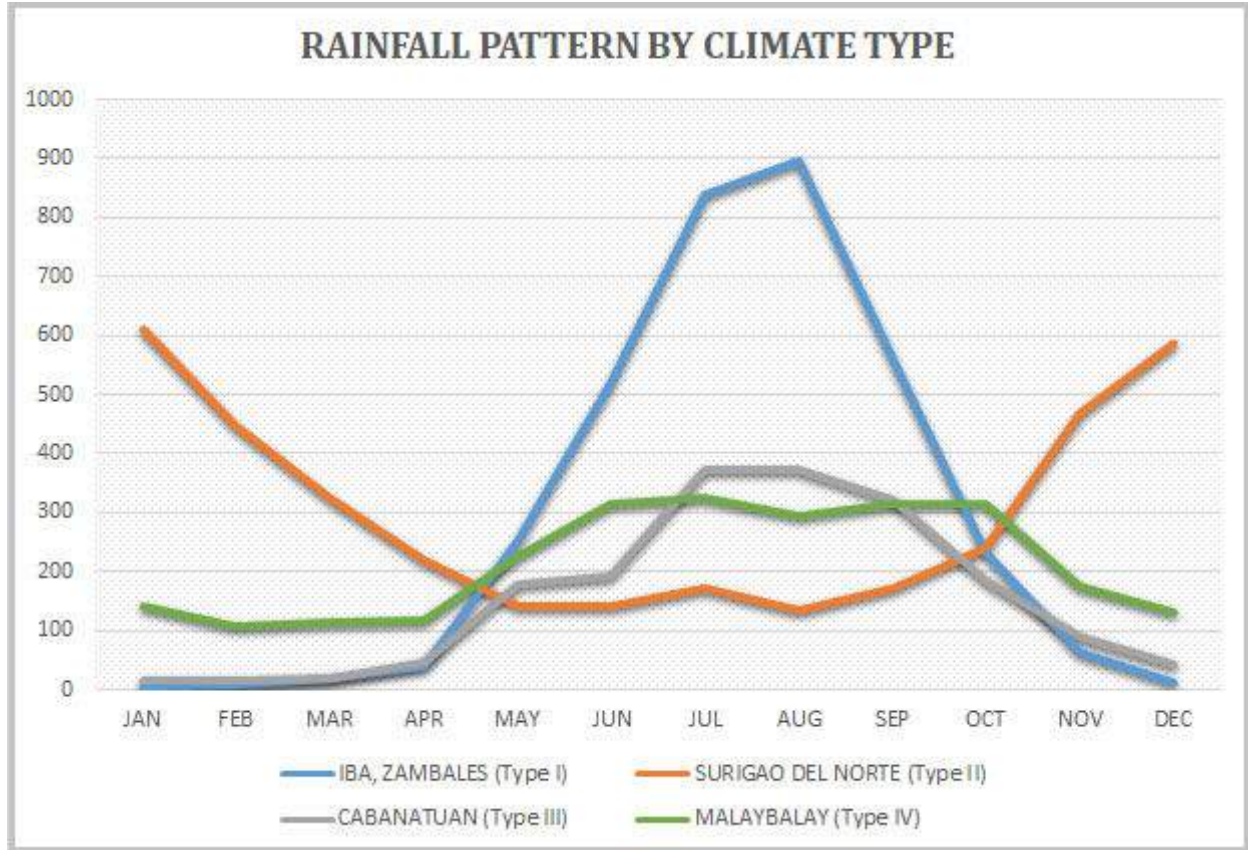
Rc2 - Common  
Rc3 - Many

#### FLOODING

F2 - Moderate seasonal flooding  
F3 - Severe seasonal flooding

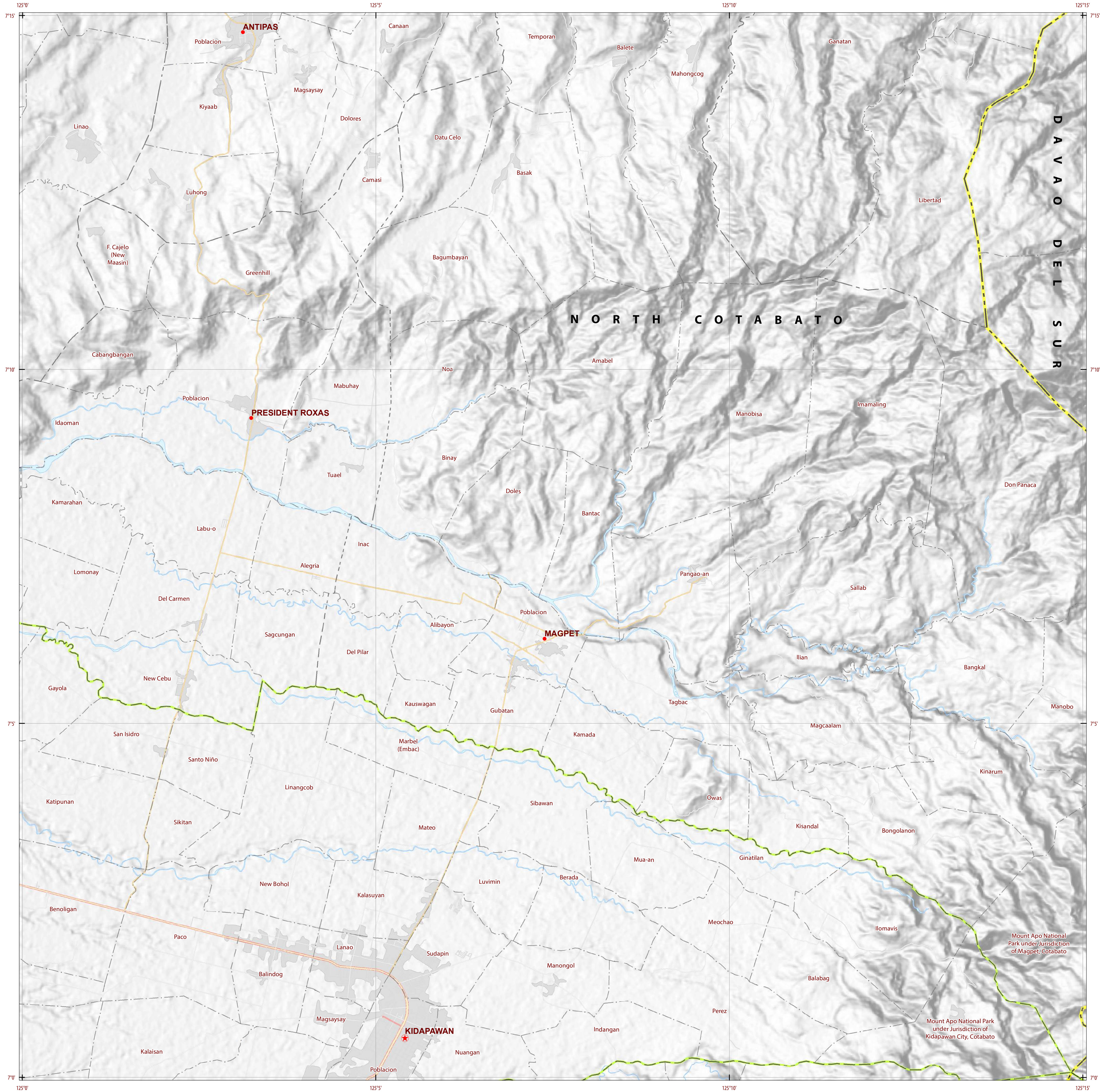
CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	EI2	11	T2-E2-Sh2-Rc2	21	T2-EI2-Sh2-Rc3	31	T3-E3-Sh3-Rc3
2	EI2-Sh2-Rc2	12	T2-E3	22	T2-EI3-E3	32	T3-EI2
3	EI3	13	T2-E3-Rc2	23	T2-EI3-E3-Sh2-Rc2	33	T3-EI2-E3
4	EI3-Sh2-Rc2	14	T2-E3-Sh2-Rc2	24	T2-EI3-Sh2-Rc2	34	T3-EI2-E3-Sh3-Rc2
5	F2-D2	15	T2-E3-Sh2-Rc3	25	T2-F2-D2	35	T3-EI2-E3-Sh3-Rc3
6	F2-Tc	16	T2-EI2	26	T2-F3-D2	36	T3-EI3-E3-Sh3-Rc2
7	F3-D2	17	T2-EI2-E3	27	T3	37	T3-F2-D2
8	Sh2	18	T2-EI2-E3-Sh2-Rc2	28	T3-E3	38	T3-F3-D2
9	Sh2-Rc2	19	T2-EI2-E3-Sh2-Rc3	29	T3-E3-Rc2	39	T3
10	T2	20	T2-EI2-Sh2-Rc2	30	T3-E3-Sh3-Rc2	40	T3-E3

CODE	LANDUSE	CODE	LANDUSE
4	Corn	105	Fruit trees, mixed
34	Diversified crops	107	Abaca
50	Rootcrops	112	Sugarcane
81	Coffee	116	Coconut
84	Pineapple	126	Grassland
85	Mango	134	Shrubs, unmanaged
89	Durian	137	Rubber (T)
90	Pomelo		
91	Banana		
93	Mangosteen		



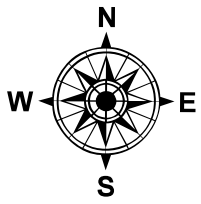
Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <<https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>>.

Davao Del Sur is classified as climatic Type IV.

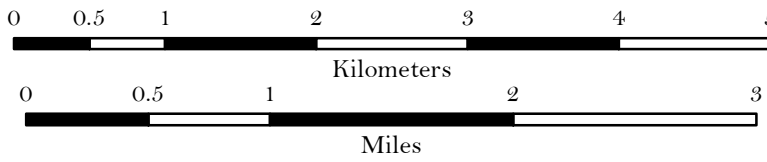


## LAND SUITABILITY MAP RUBBER

### 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

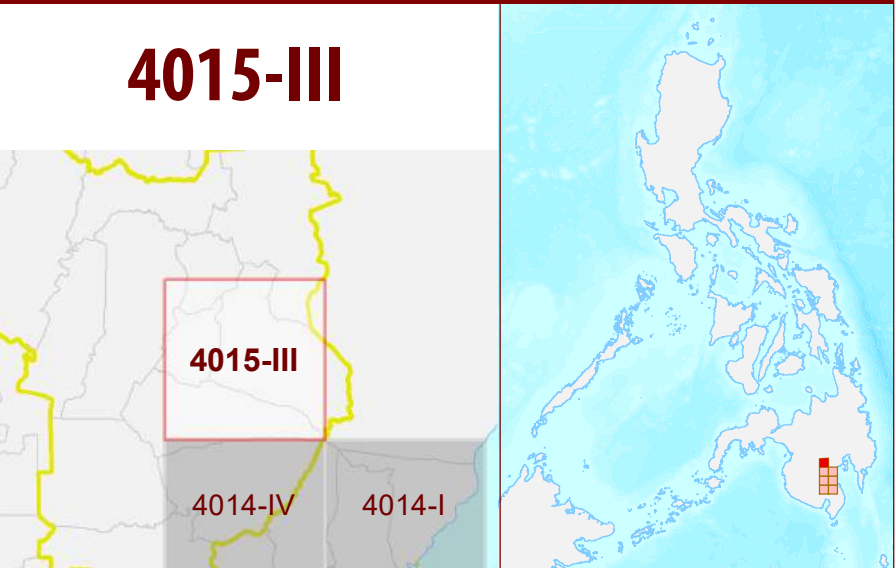
##### OTHER SIGNS

- 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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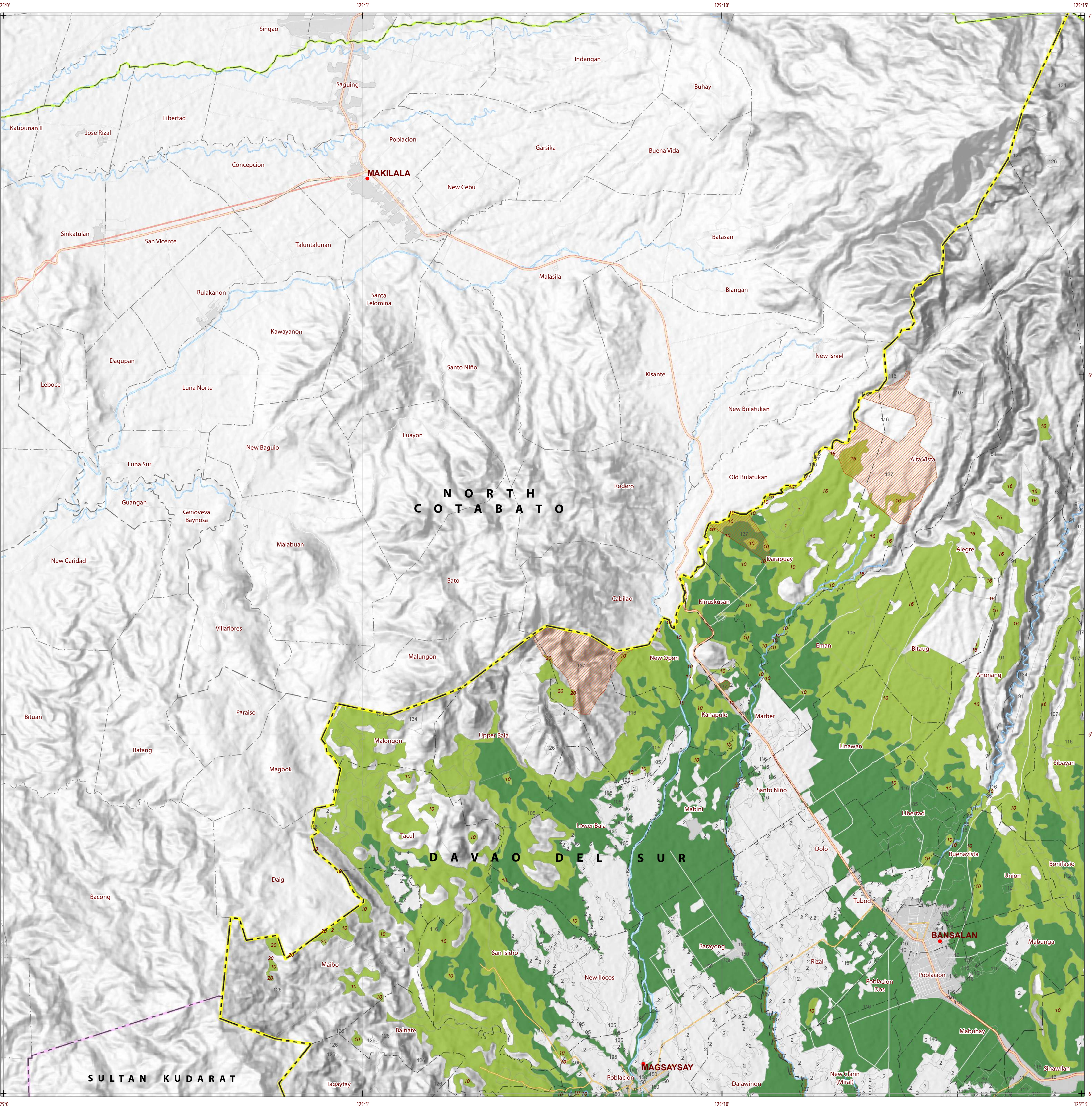
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SRDC Bldg, Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101  
Tel/Fax No. : (+632) 332-9534 E-mail: bswmcenter@da.gov.ph

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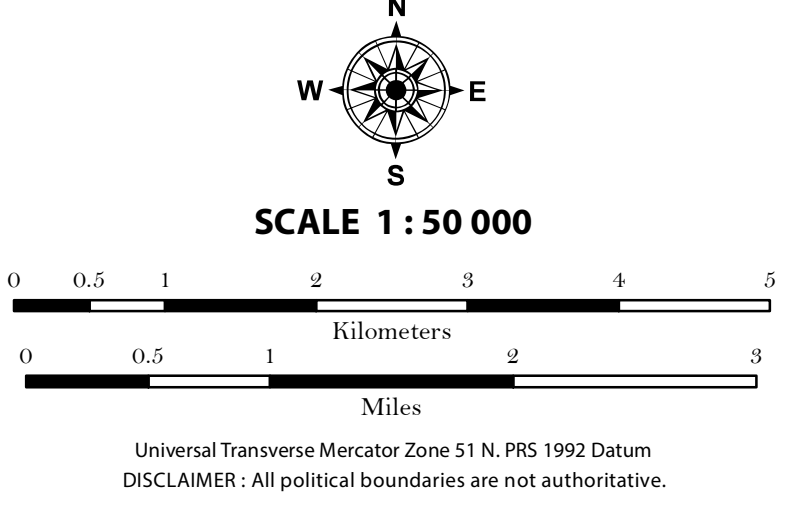
PROVINCE OF DAVAO DEL SUR

Malasila



LAND SUITABILITY MAP  
RUBBER

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



**LEGEND**

**SUITABILITY CLASSES**

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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**

**4014-IV**

**INDEX MAP**

**MISCELLANEOUS INFORMATION**

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LAND SUITABILITY MAP  
RUBBER

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

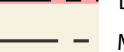
 Tertiary

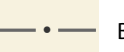
BOUNDARY

 Region


 Province


 District

 Municipality


 Barangay


HYDROLOGY

 Sea / Shoreline

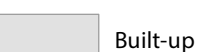
 Lakes / Rivers


PLACES

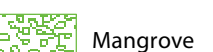
 Capital City / City

 Capital Town / Town

LAND USE

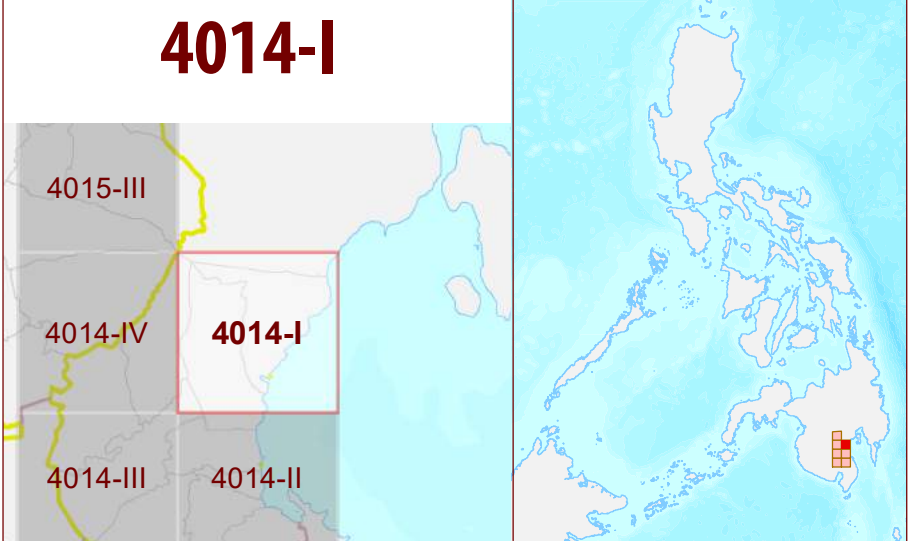
 Built-up

 Fishpond

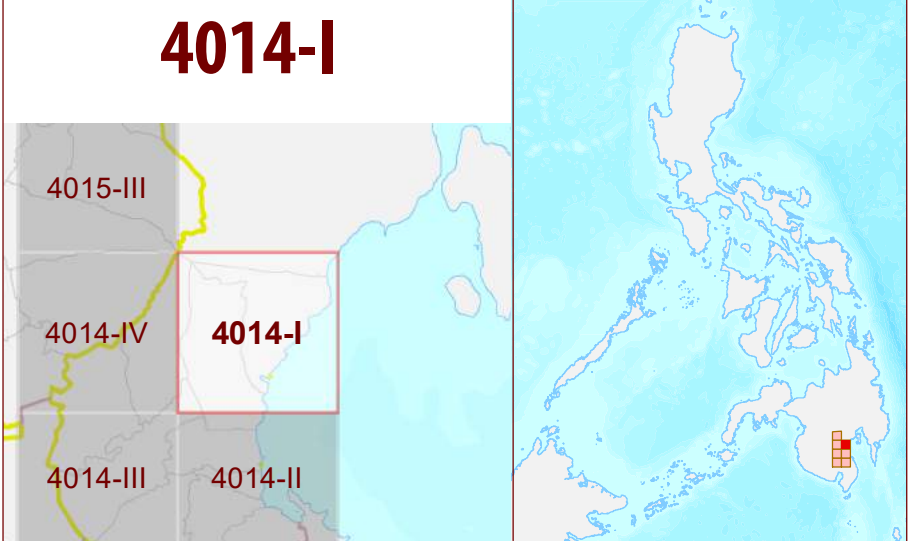
 Mangrove

ADJOINING SHEETS

4014-I



INDEX MAP



MISCELLANEOUS INFORMATION

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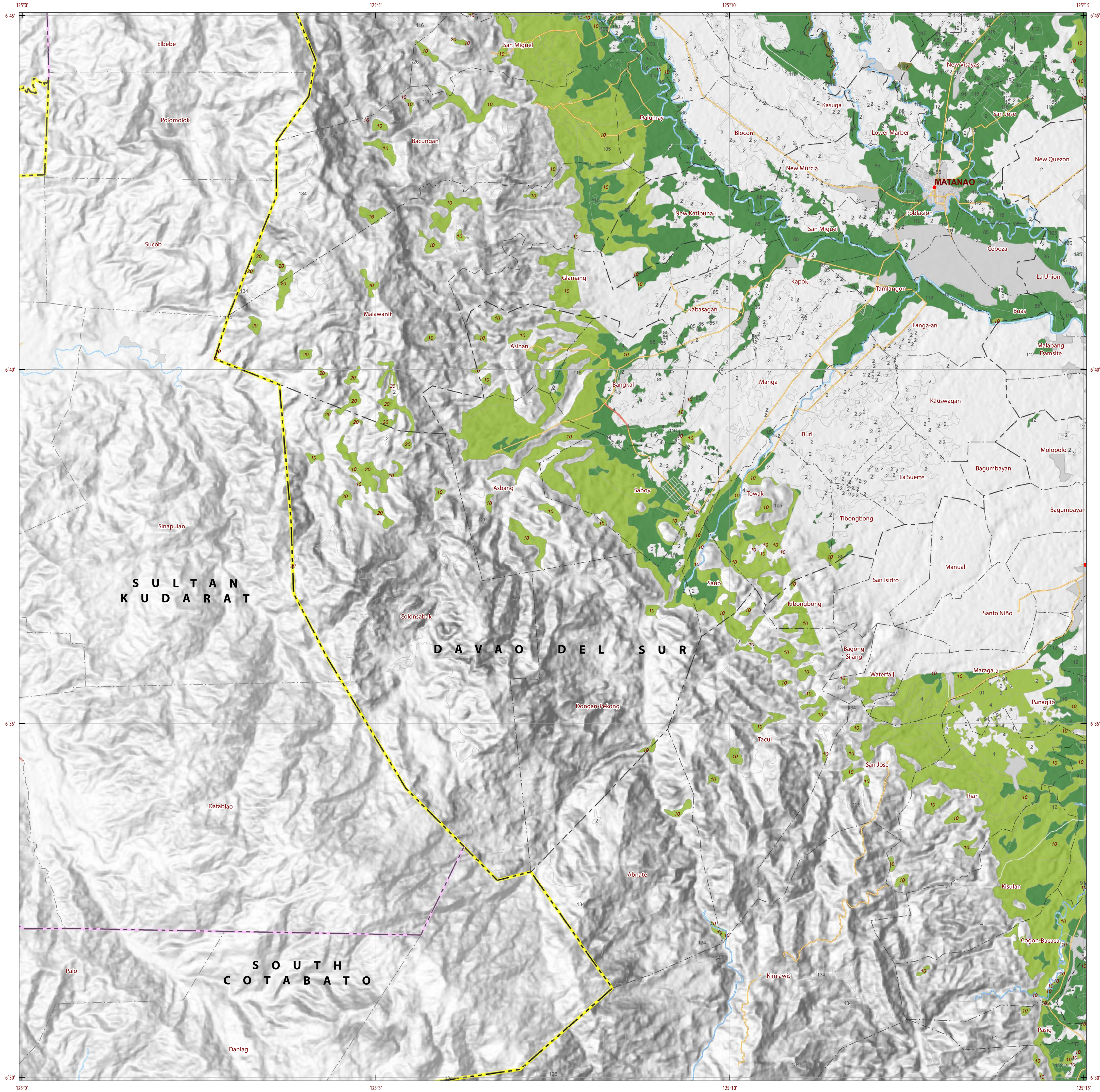
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PROVINCE OF DAVAO DEL SUR

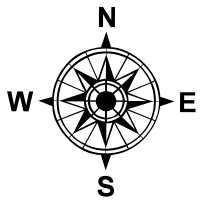
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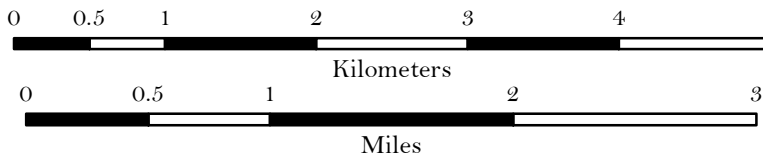


LAND SUITABILITY MAP  
RUBBER

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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SUITABILITY CLASSES

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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

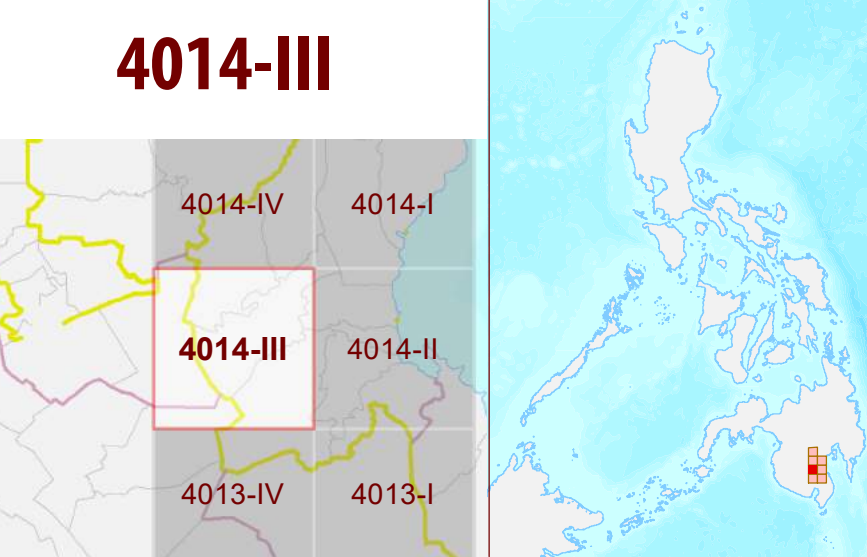
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

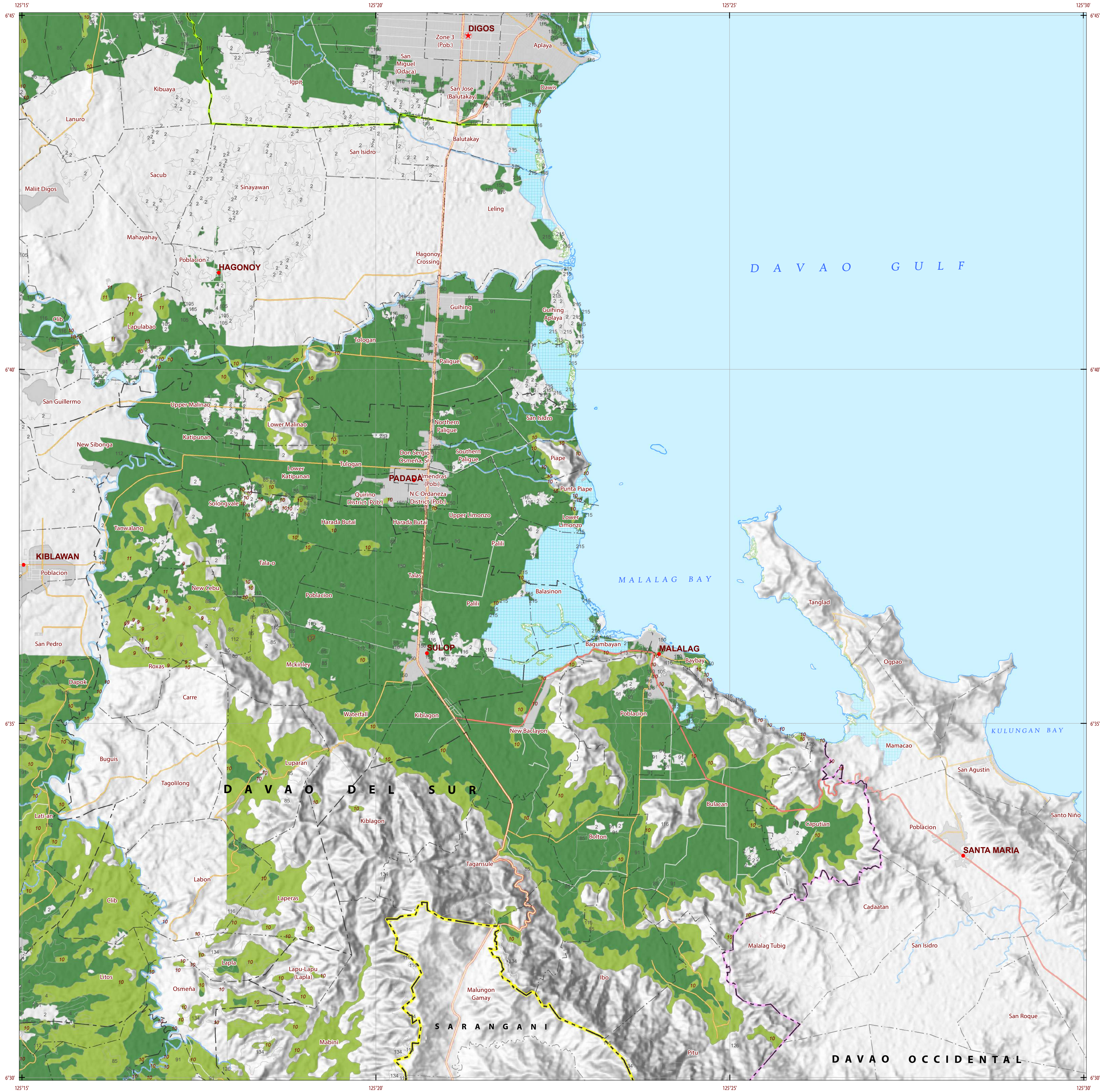
**SOURCES OF INFORMATION** : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soil Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from 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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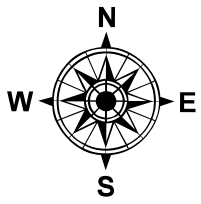
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SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101  
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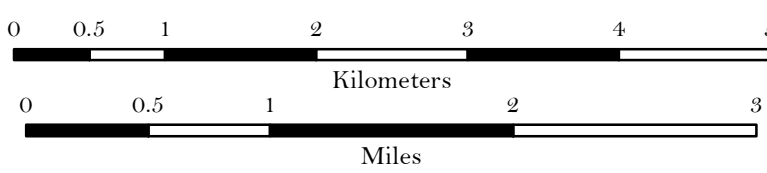


## LAND SUITABILITY MAP RUBBER

### 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

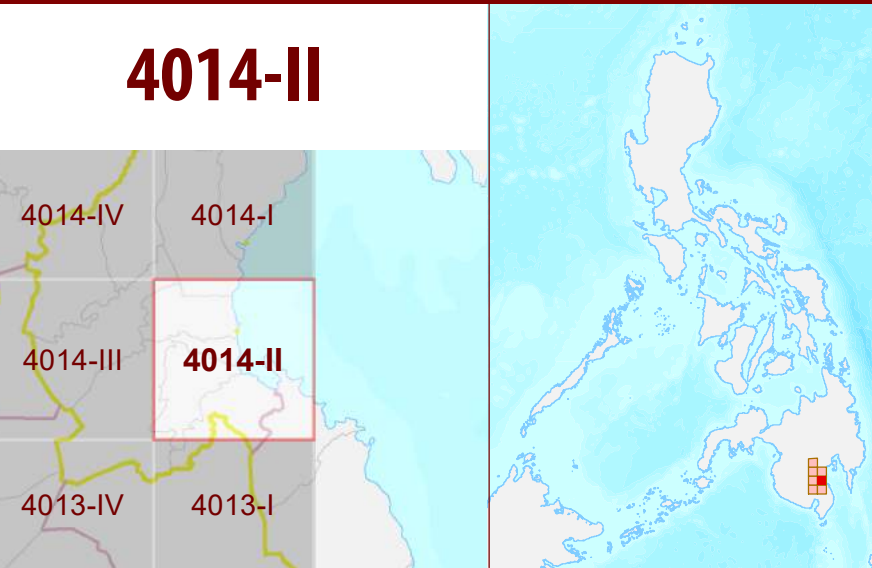
##### OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

#### CONVENTIONAL SIGNS

- ROADS**
  - Expressway
  - Trunk line
  - Primary
  - Secondary
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- LAND USE**
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#### ADJOINING SHEETS



#### MISCELLANEOUS INFORMATION

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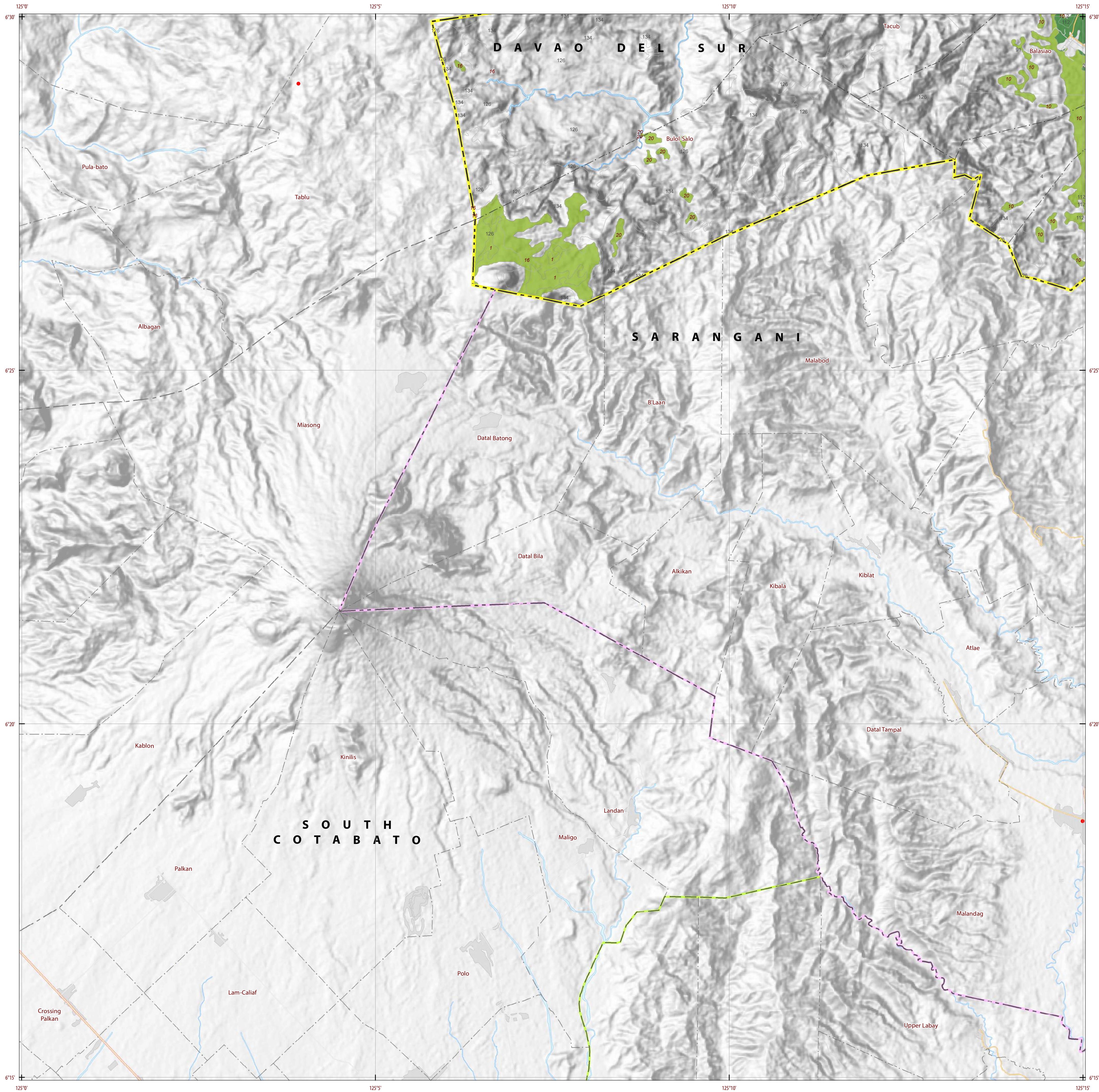
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4013-IV

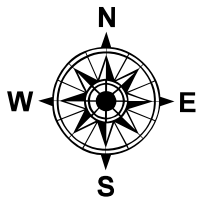
PROVINCE OF DAVAO DEL SUR

Mount Matutum

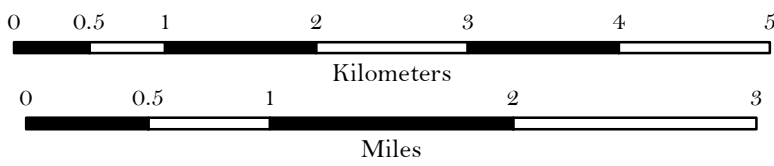


LAND SUITABILITY MAP  
RUBBER

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

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Not Suitable/ Not Relevant

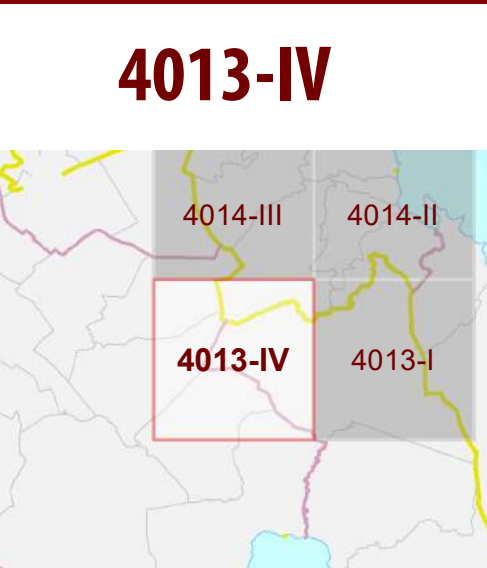
OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**
  - Expressway
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ADJOINING SHEETS



INDEX MAP



MISCELLANEOUS INFORMATION

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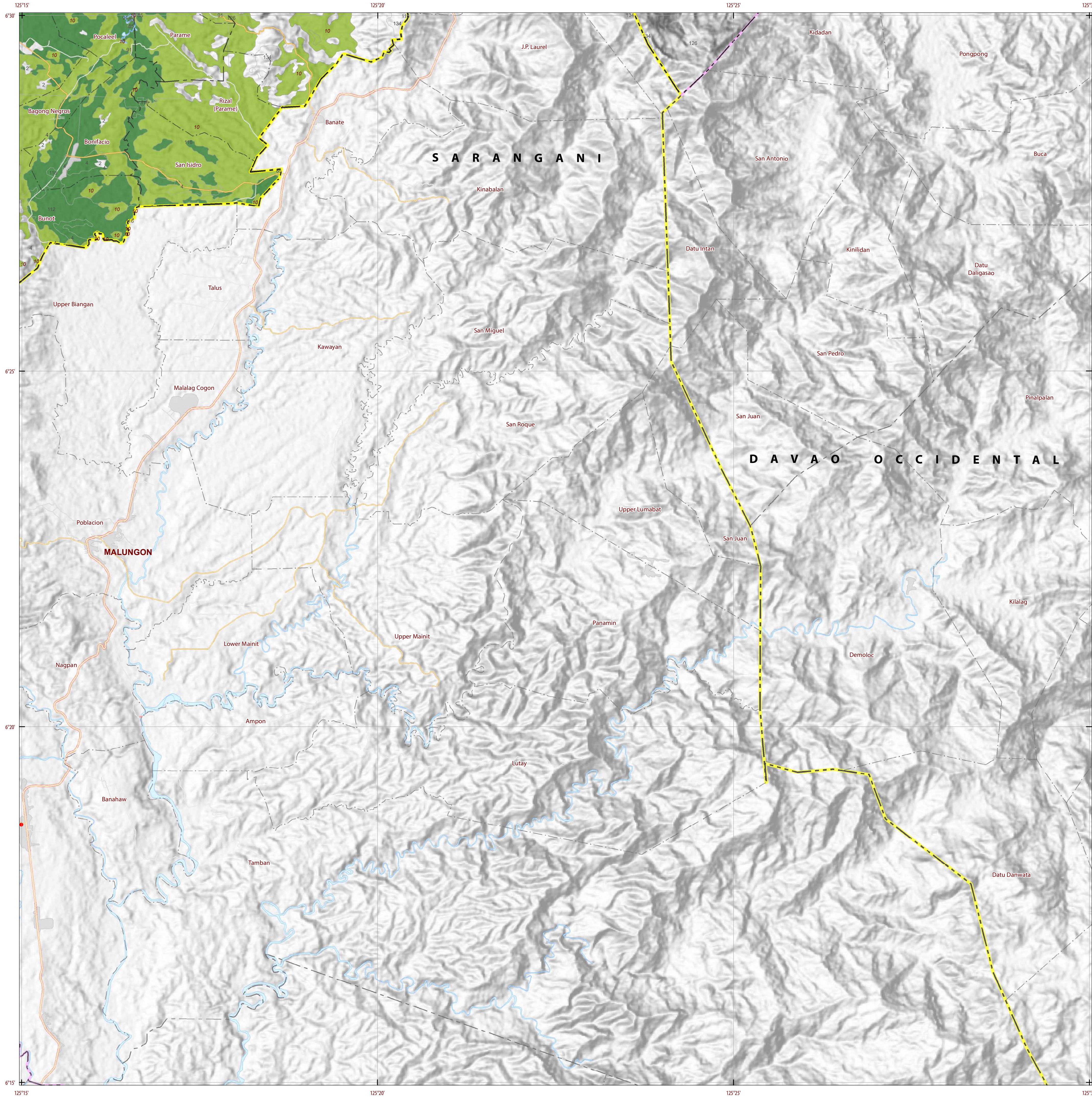
Project Leader : BERNARDO B. PASCUA  
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Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)  
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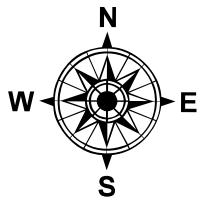
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LAND SUITABILITY MAP  
RUBBER

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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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



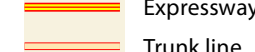
Land use

CONVENTIONAL SIGNS

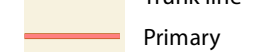
ROADS




Expressway



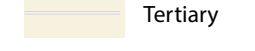
Trunk line



Primary




Secondary

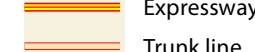


Tertiary

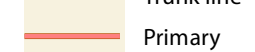
BOUNDARY




Region



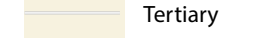
Province



District

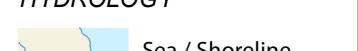


Municipality

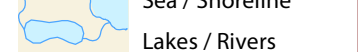


Barangay

HYDROLOGY

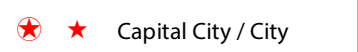


Sea / Shoreline

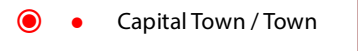


Lakes / Rivers

PLACES




Capital City / City

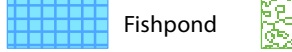


Capital Town / Town

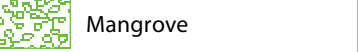
LAND USE



Built-up



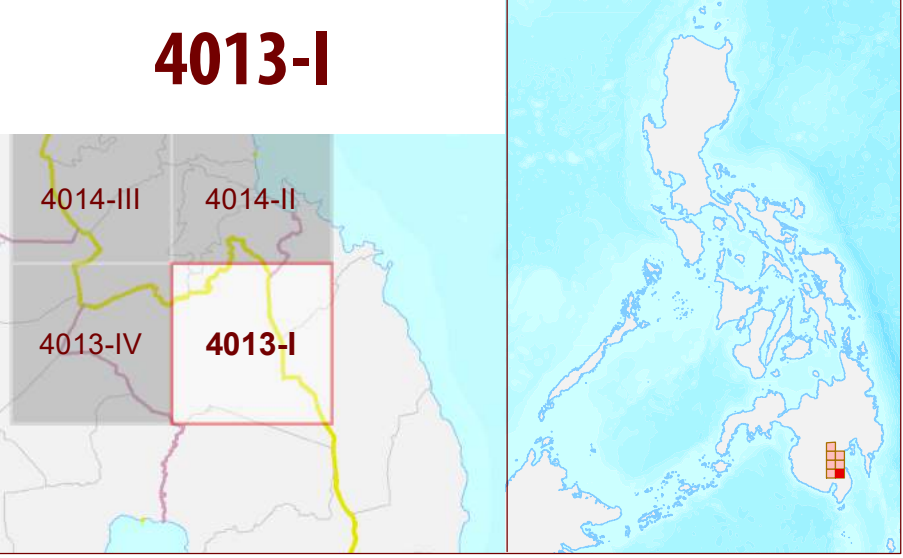
Fishpond



Mangrove

ADJOINING SHEETS

4013-I



MISCELLANEOUS INFORMATION

SOURCES OF INFORMATION

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PROVINCE OF DAVAO DEL SUR

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