LAND SUITABILITY MAP

NATURAL RUBBER

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF LANAO DEL SUR

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT
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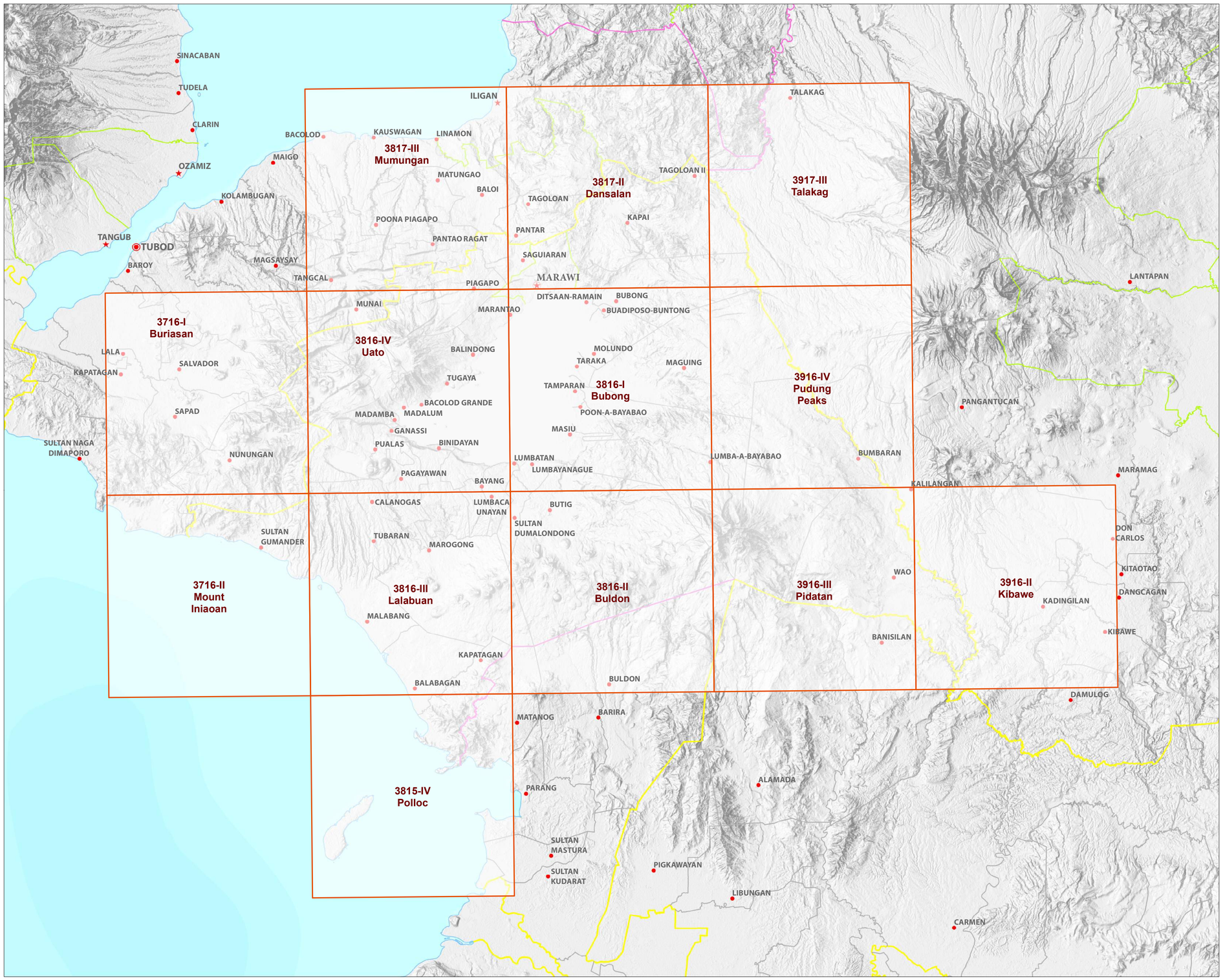
MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF LANAO DEL SUR



LEGEND

Places

- Capital City
- City
- Capital Town
- Town

Administrative Boundary

- Regional
- Provincial
- City
- Municipal

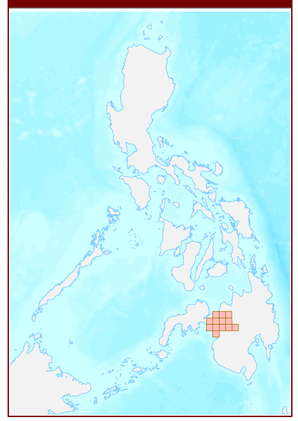
Map Index

- Index grid

Topographic Relief

Bathymetry

LOCATION MAP



MISCELLANEOUS INFORMATION

Land suitabilityinformation 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 RUBBER

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF LANAO DEL SUR, ARMM

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*		Corn		Paddy rice, non-irrigated		Other crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	
BACOLOD-KALAWI	-	-	-	-	-	98	-	-	-	-	-	-	-	-	-	-	98
BALABAGAN	-	-	-	-	2,919	1,609	-	-	-	0	91	97	-	-	-	-	4,717
BALINDONG	-	-	-	-	-	309	-	100	-	42	-	705	-	-	-	-	1,157
BAYANG	-	-	-	-	-	269	-	125	-	-	-	649	-	-	-	-	1,043
BINIDAYAN	-	-	-	-	-	154	-	69	-	-	-	519	-	-	-	-	742
BUADIPOSO-BUNTONG	-	-	-	-	-	-	-	69	-	2	-	1,057	-	-	-	-	1,128
BUBONG	-	-	-	-	-	-	-	155	-	1	-	1,977	-	-	-	-	2,133
BUMBARAN	-	-	-	-	-	2	-	914	-	387	-	6,239	-	-	-	-	7,543
BUTIG	-	-	-	-	-	100	-	98	-	155	-	1,210	-	-	-	-	1,562
CALANOGAS	-	-	-	-	-	2,166	-	70	-	559	-	819	-	-	-	-	3,614
DITSAAN-RAMAIN	-	-	-	-	-	-	-	12	-	-	-	733	-	-	-	-	744
GANASSI	-	-	-	-	-	130	-	34	-	-	-	812	-	-	-	-	976
KAPAI	-	-	-	-	-	-	-	564	-	-	-	1,680	-	-	-	-	2,244
KAPATAGAN	-	-	-	-	789	1,627	1	156	-	59	36	43	-	-	-	-	2,710
LUMBA-BAYABAO	-	-	-	-	-	-	-	70	-	92	-	1,423	-	-	-	-	1,585
LUMBACA-UNAYAN	-	-	-	-	-	243	-	87	-	-	-	761	-	-	-	-	1,091
LUMBATAN	-	-	-	-	-	93	-	17	-	-	-	1,084	-	-	-	-	1,193
LUMBAYANAGUE	-	-	-	-	-	47	-	38	-	-	-	328	-	-	-	-	413
MADALUM	-	-	-	-	-	42	-	65	-	240	-	539	-	-	-	-	885
MADAMBA	-	-	-	-	-	-	-	264	-	165	-	1,046	-	-	-	-	1,475
MAGUING	-	-	-	-	-	-	-	250	-	2,872	-	6,415	-	-	-	-	9,536
MALABANG	-	-	-	-	988	1,550	-	43	-	213	192	144	-	-	-	-	3,129
MARANTAO	-	-	-	-	-	342	-	16	-	11	-	1,968	-	-	-	-	2,336
MARAWI CITY	-	-	-	-	-	7	-	145	-	95	-	2,277	-	-	-	-	2,524
MAROGONG	-	-	-	-	3,636	5,107	39	498	-	7	262	234	-	-	-	-	9,782
MASIU	-	-	-	-	-	-	-	19	-	204	-	1,156	-	-	-	-	1,379
MULONDO	-	-	-	-	-	-	-	101	-	221	-	593	-	-	-	-	916
PAGAYAWAN	-	-	-	-	44	608	-	62	-	-	-	2,106	-	-	-	-	2,820
PIAGAPO	-	-	-	-	-	8	-	187	-	9	-	1,804	-	-	-	-	2,008
PICONG	-	-	-	-	1,138	3,699	-	4	-	50	-	-	-	-	-	-	4,891
POONA BAYABAO	-	-	-	-	-	-	-	25	-	58	-	868	-	-	-	-	950
PUALAS	-	-	-	-	-	251	-	178	-	482	-	949	-	-	-	-	1,859
SAGUIARAN	-	-	-	-	-	1	4	220	-	8	-	436	-	-	-	-	668
SULTAN DUMALONDONG	-	-	-	-	-	51	-	-	-	-	-	524	-	-	-	-	575
TAGOLOAN II	-	-	-	-	-	0	14	163	-	891	-	208	-	-	-	-	1,276
TAMPARAN	-	-	-	-	-	-	-	9	-	-	-	457	-	-	-	-	465
TARAKA	-	-	-	-	-	-	-	-	-	17	-	610	-	-	-	-	627
TUBARAN	-	-	-	-	18	1,015	-	87	-	41	-	1,228	-	-	-	-	2,389
TUGAYA	-	-	-	-	-	142	-	25	-	21	-	84	-	-	-	-	272
WAO	-	-	-	-	4	10	45	450	-	917	1,126	5,699	-	-	5	6,022	14,279
Total Area (Ha)	-	-	-	-	9,535	19,681	102	5,388	-	7,817	1,707	49,481	-	-	5	6,022	**99,738**

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.

CLIMATE TYPE

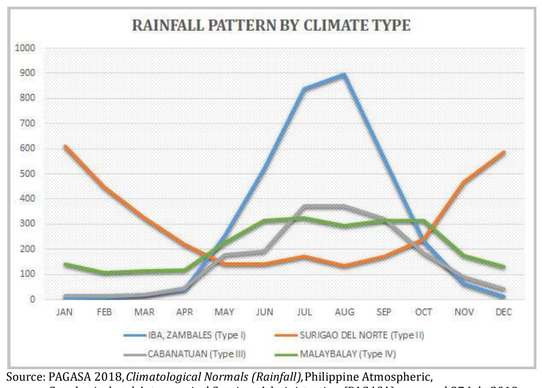
TYPE I : Two pronouced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September

TYPE II : 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.

TYPE III : 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.

TYPE IV : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

Lanao Del Sur is classified as climatic Type III.



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>.

CODE	LANDUSE
2	Paddy rice, non-irrigated
4	Corn
81	Coffee
82	Cacao
112	Sugarcane
116	Coconut
126	Grassland
134	Shrubs, unmanaged

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

SOIL DEPTH (cm)
0 - 30 - very shallow
30 - 50 - shallow
50 - 100 - moderately deep
> 100 - deep to very deep

SURFACE IMPEDIMENT
ROCK OUTCROPS
< 10% - none - few
10 - 30% - common
> 30% - many

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION
El2 - 500 - 1000m or 2000 - 2500m
El3 - < 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	CODE	LIMITATION	CODE	LIMITATION
1	El2	11	F3-D2	21	T2-El2-E3-Sh2-Rc2	31	T2-El3-Sh2-Rc3	41	T3-El2-E3-Sh3-Rc3	51	T3-El2-E3
2	El2-E2-Sh2-Rc3	12	Sh2-Rc2	22	T2-El2-E3-Sh2-Rc3	32	T2-F3-D2	42	T3-El2-F2-D2	52	T3-El2-E3-Sh3-Rc3
3	El2-F2-D2	13	T2	23	T2-El2-F2-D2	33	T3	43	T3-El3	53	T3-El3
4	El2-F3-D2	14	T2-E2-Sh2-Rc2	24	T2-El2-Rc2	34	T3-E3	44	T3-El3-E3-Sh3-Rc2	54	T3-El3-E3-Sh3-Rc3
5	El2-Sh2-Rc2	15	T2-E3	25	T2-El2-Sh2-Rc2	35	T3-E3-Sh3-Rc2	45	T3-El3-E3-Sh3-Rc3	55	T3-El4
6	El3	16	T2-E3-Sh2-Rc2	26	T2-El2-Sh2-Rc3	36	T3-E3-Sh3-Rc3	46	T3-F3-D2		
7	El3-E2-Sh2-Rc3	17	T2-E3-Sh2-Rc3	27	T2-El3	37	T3-El2	47	T3		
8	El3-Sh2-Rc2	18	T2-El2	28	T2-El3-E3-Sh2-Rc2	38	T3-El2-E3	48	T3-E3		
9	F2-D2	19	T2-El2-E3	29	T2-El3-E3-Sh2-Rc3	39	T3-El2-E3-Rc2	49	T3-E3-Sh3-Rc3		
10	F2-Tc	20	T2-El2-E3-Rc2	30	T2-El3-Sh2-Rc2	40	T3-El2-E3-Sh3-Rc2	50	T3-El2		

PROVINCE OF LANAO DEL SUR

LAND SUITABILITY MAP
RUBBER

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.

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
1 Land limitation
118 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

3817-III

3817-III
3817-II
3716-I
3816-IV
3816-I

INDEX MAP

MISCELLANEOUS INFORMATION

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GIS and Cartography : IRVIN K. SAMALCA

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LAND SUITABILITY MAP RUBBER

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

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Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

Cacao

1 Land limitation

118 Land use

CONVENTIONAL SIGNS

ROADS

Expressway

Trunk line

Primary

Secondary

Tertiary

BOUNDARY

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Province

District

Municipality

Barangay

HYDROLOGY

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Lakes / Rivers

PLACES

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Mangrove

ADJOINING SHEETS

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3817-III 3817-II 3917-III

3816-IV 3816-I 3916-IV

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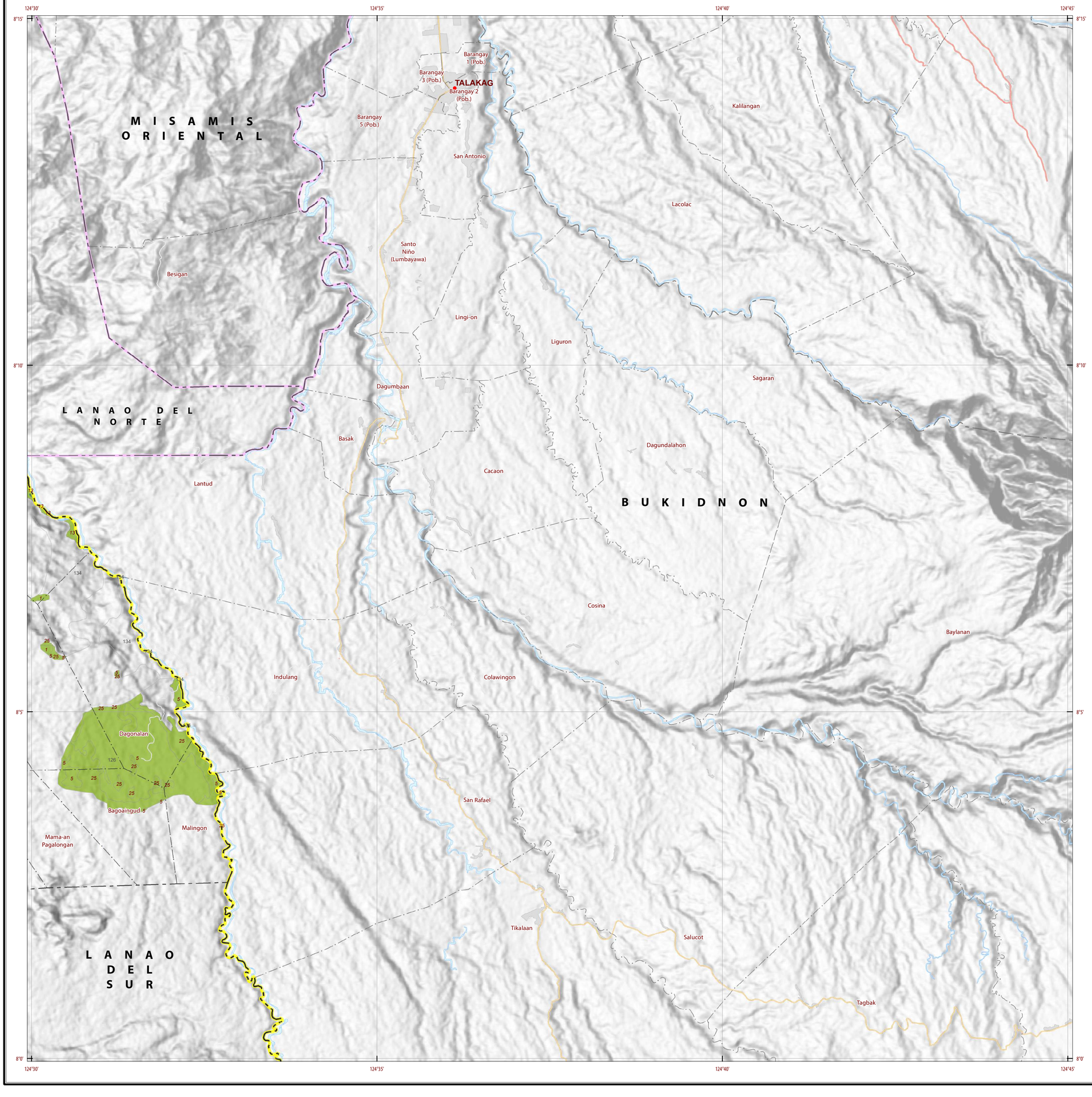

LAND SUITABILITY MAP RUBBER

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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

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118 Land use

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Sea / Shoreline

Lakes / Rivers

PLACES

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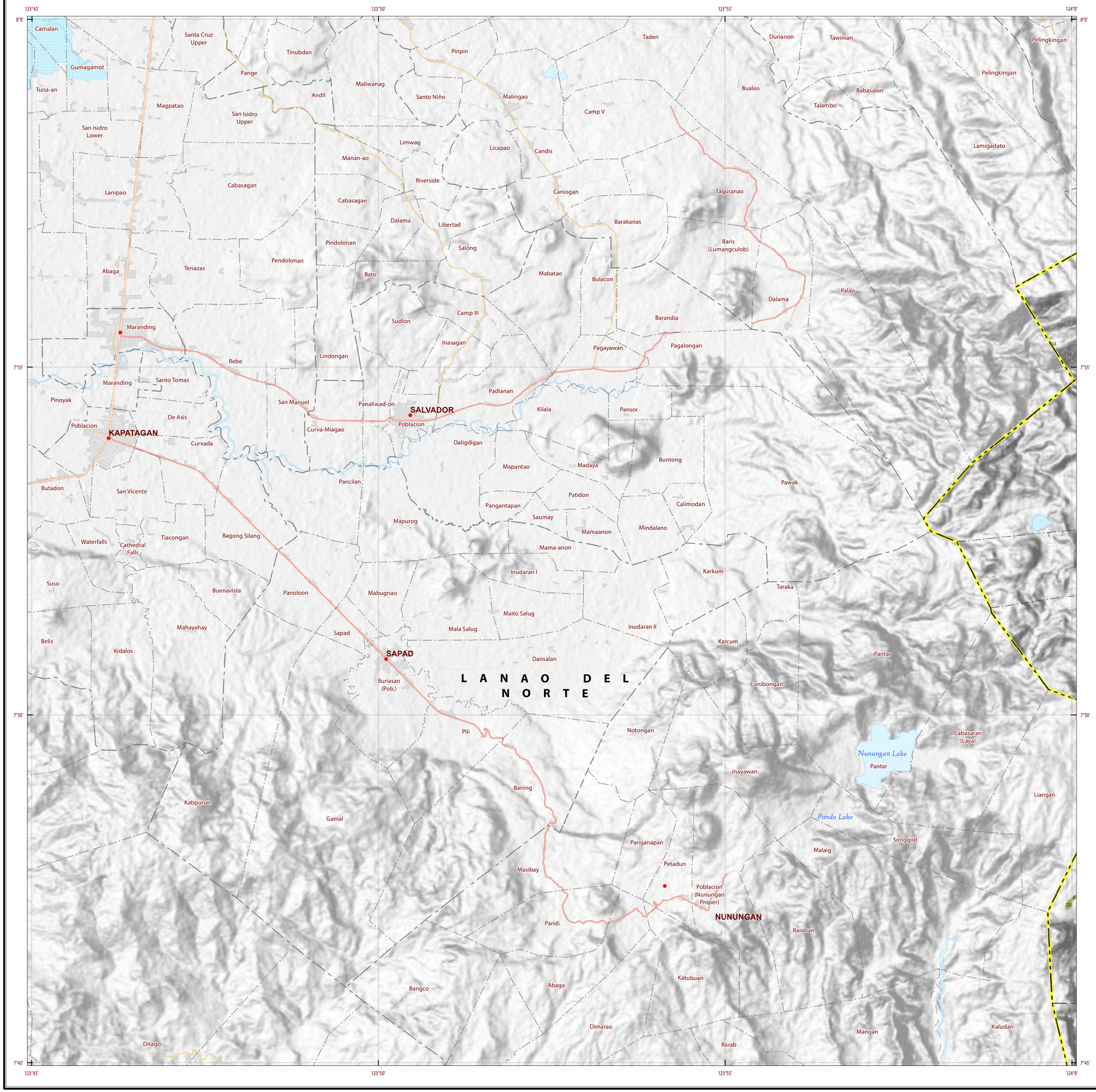

LAND SUITABILITY MAP RUBBER

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.

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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- 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
- 1 Land limitation
- 11B 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

3716-I

3817-III
3716-I
3816-IV
3716-II
3816-III

INDEX MAP

MISCELLANEOUS INFORMATION

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PROVINCE OF LANAO DEL SUR

LAND SUITABILITY MAP
RUBBER

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N W E S

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Universal Transverse Mercator Zone 51 N. PRS 1992 Datum

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OTHER SIGNS

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Cacao

1 Land limitation

118 Land use

CONVENTIONAL SIGNS

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Expressway

Trunk line

Primary

Secondary

Tertiary

BOUNDARY

Region

Province

District

Municipality

Barangay

HYDROLOGY

Sea / Shoreline

Lakes / Rivers

PLACES

Capital City / City

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LAND USE

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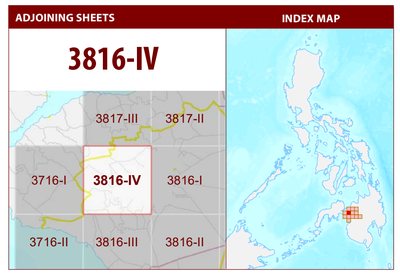

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N W E S

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0 0.5 1 2 3 4 5 Kilometers

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118 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

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ADJOINING SHEETS

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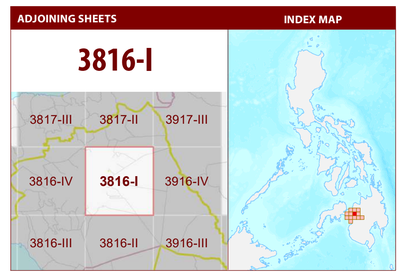

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PROVINCE OF LANAO DEL SUR

LAND SUITABILITY MAP RUBBER

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N W E S

SCALE 1 : 50 000

0 0.5 1 2 3 4 5 Kilometers

0 0.5 1 2 3 Miles

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Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

Cacao

1 Land limitation

116 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

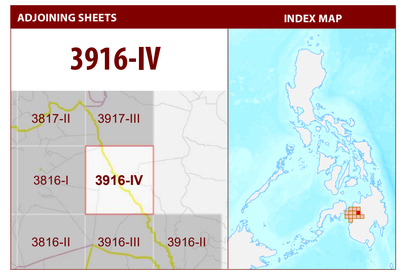
Built-up

Fishpond

Mangrove

ADJOINING SHEETS

INDEX MAP



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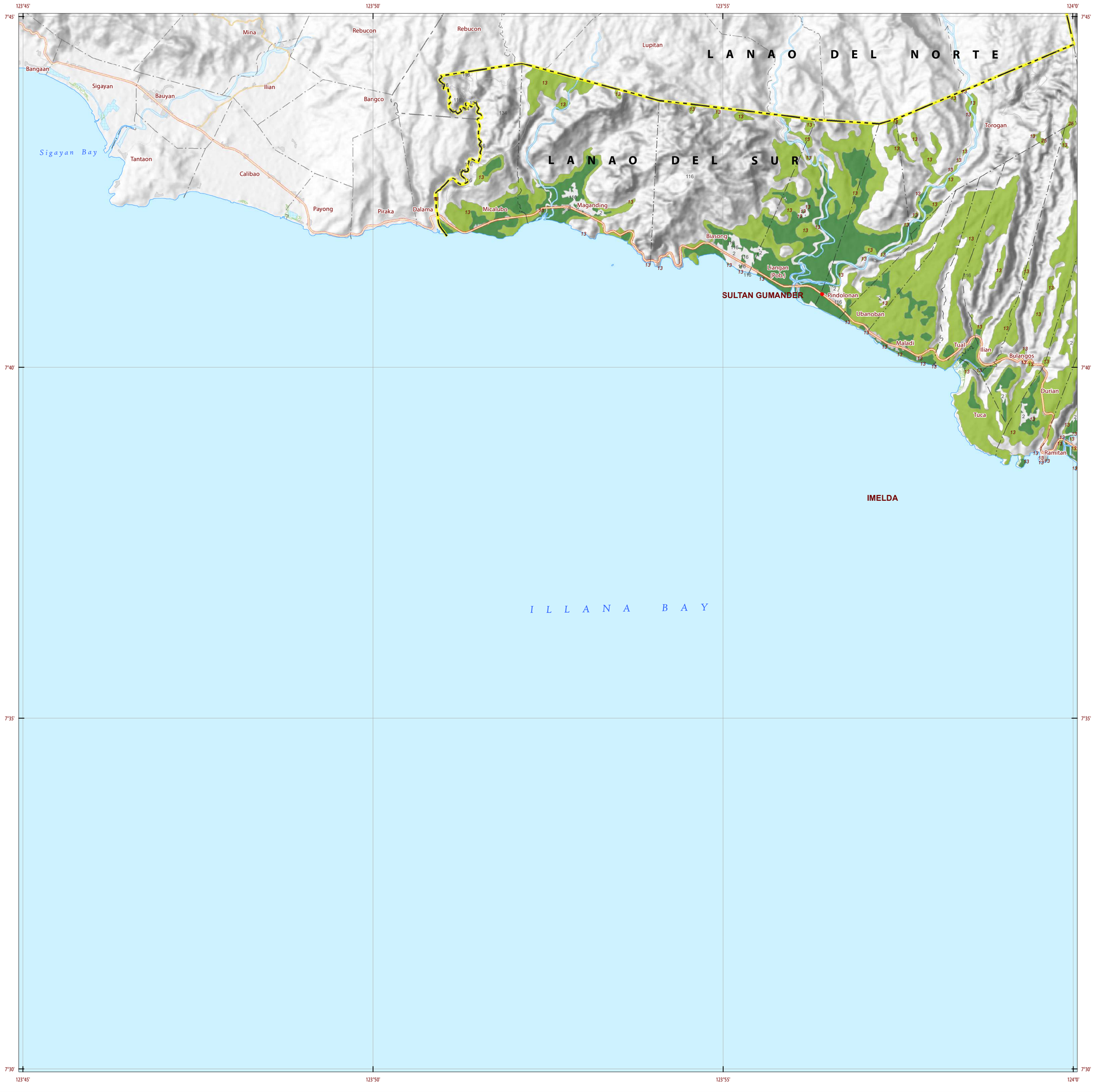

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Secondary

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

3716-II

3716-I

3816-IV

3716-II

3816-III

3815-IV

INDEX MAP

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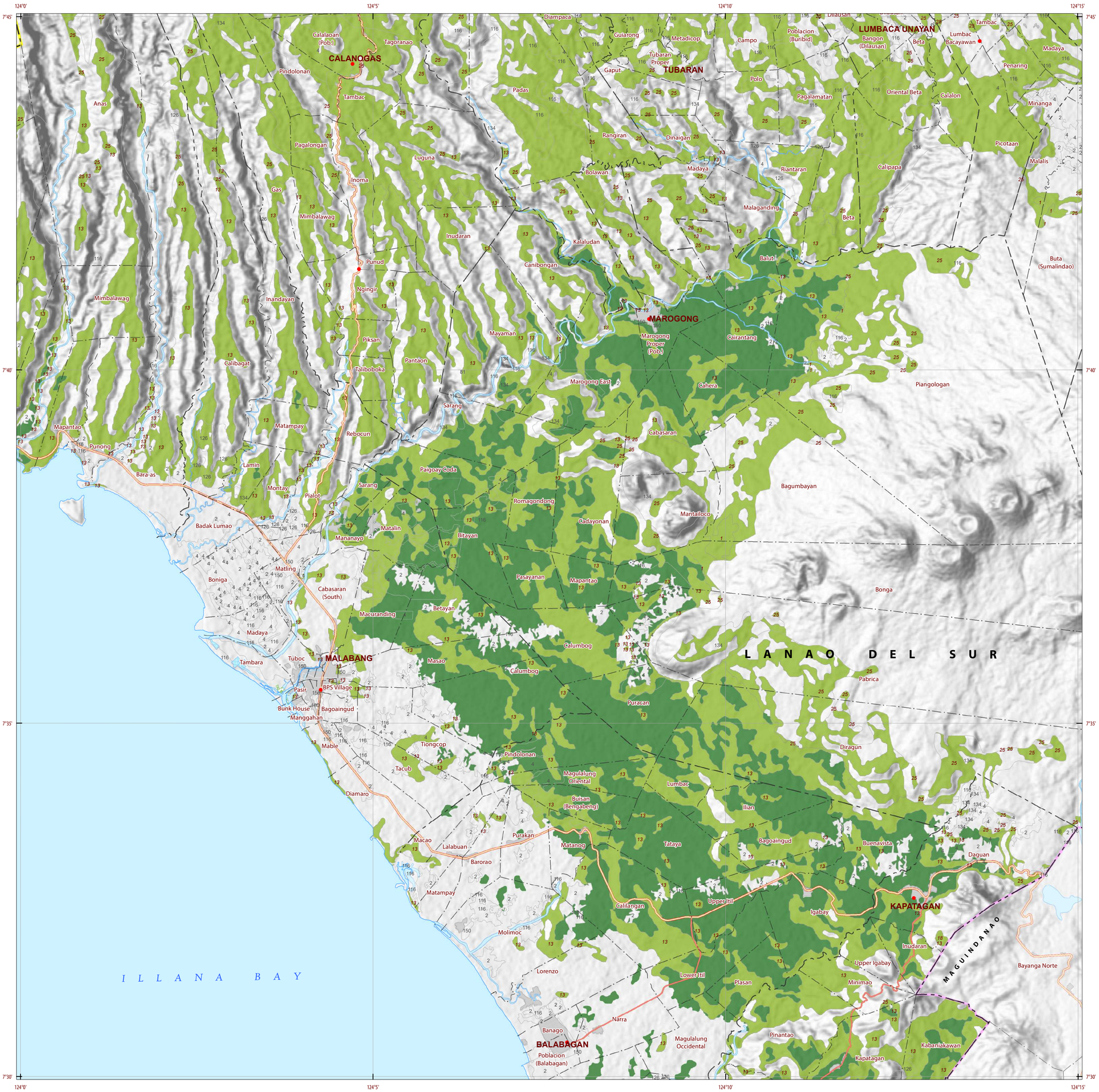

DEPARTMENT OF AGRICULTURE 1898

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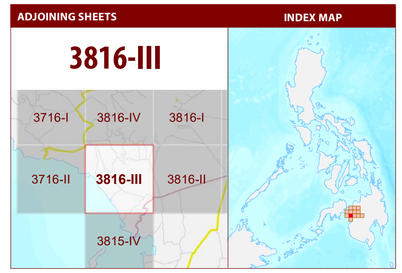

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DEPARTMENT OF AGRICULTURE 1898

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N W E S

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ADJOINING SHEETS

3816-II

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3815-IV

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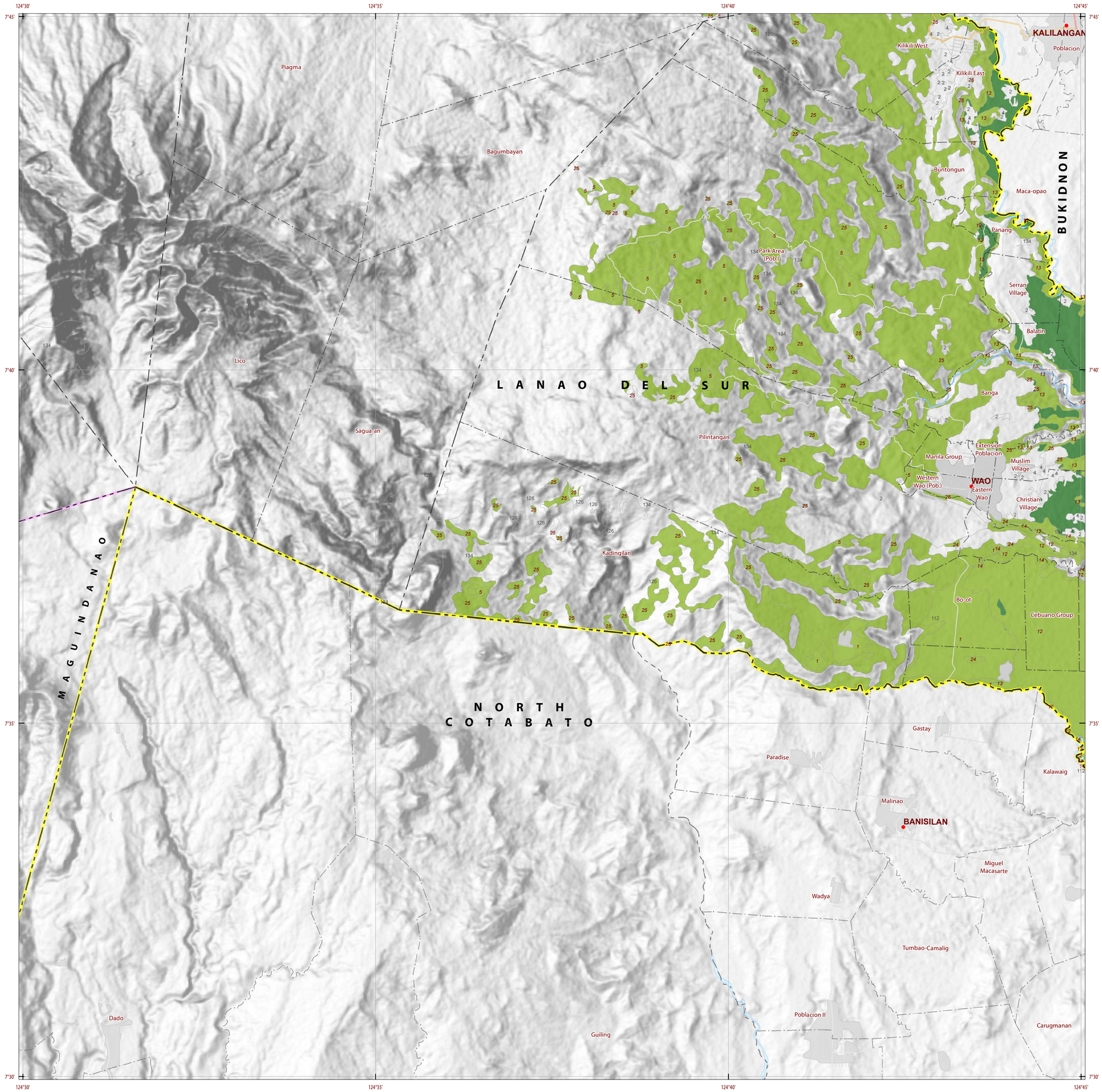

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S3 **Marginally Suitable** - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

Cacao

1 Land limitation

118 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

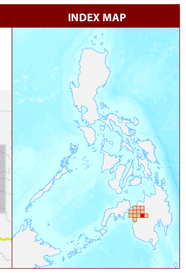
3916-III

3816-I 3916-IV

3816-II 3916-III 3916-II

3815-IV

INDEX MAP



MISCELLANEOUS INFORMATION

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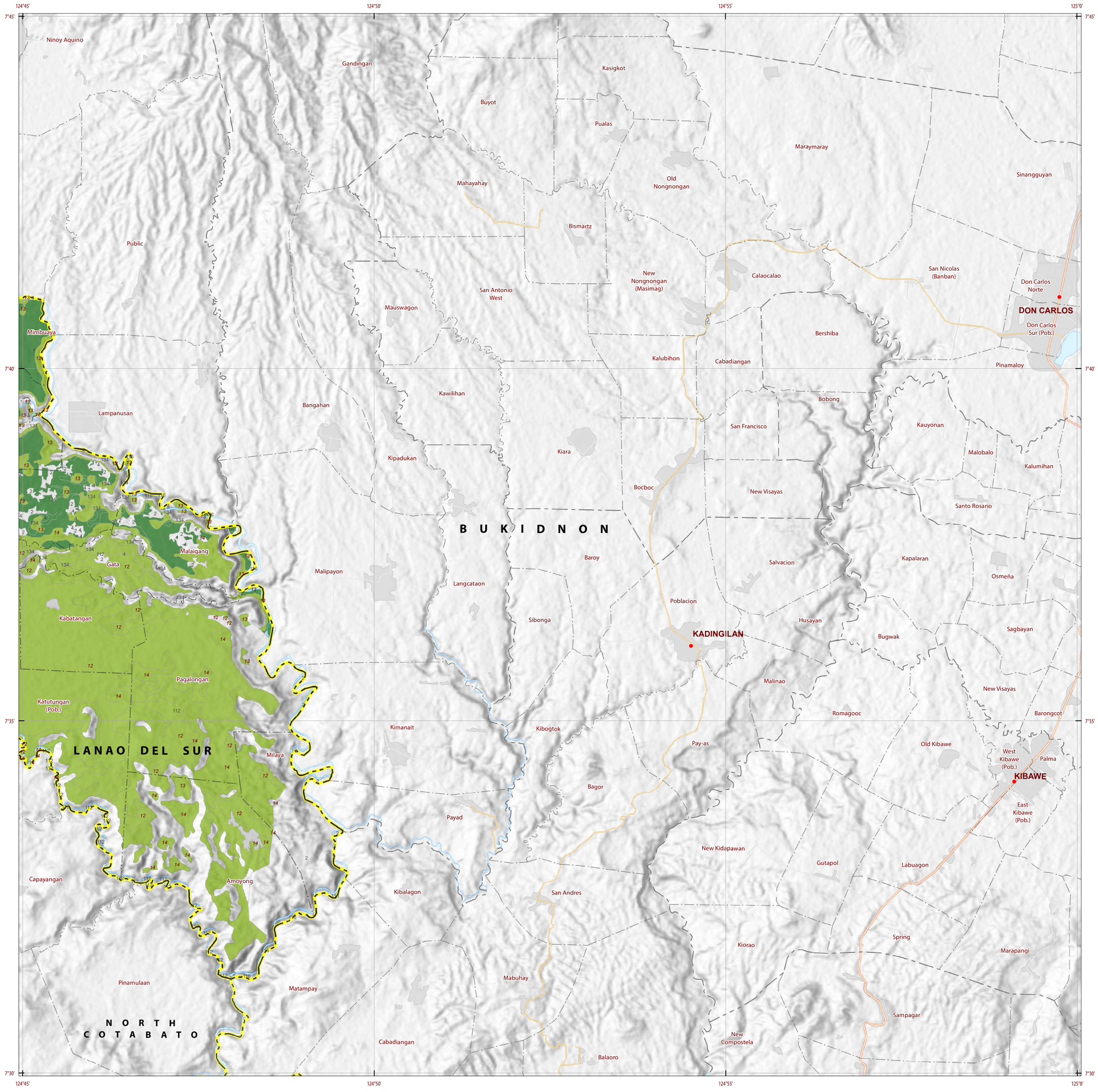
Tel/Fax No. : (+632) 332-9534 E-mail : *bswmclientcenter@yahoo.com*



LAND SUITABILITY MAP RUBBER

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.

LEGEND

SUITABILITY CLASSES

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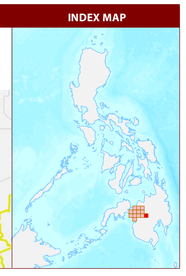

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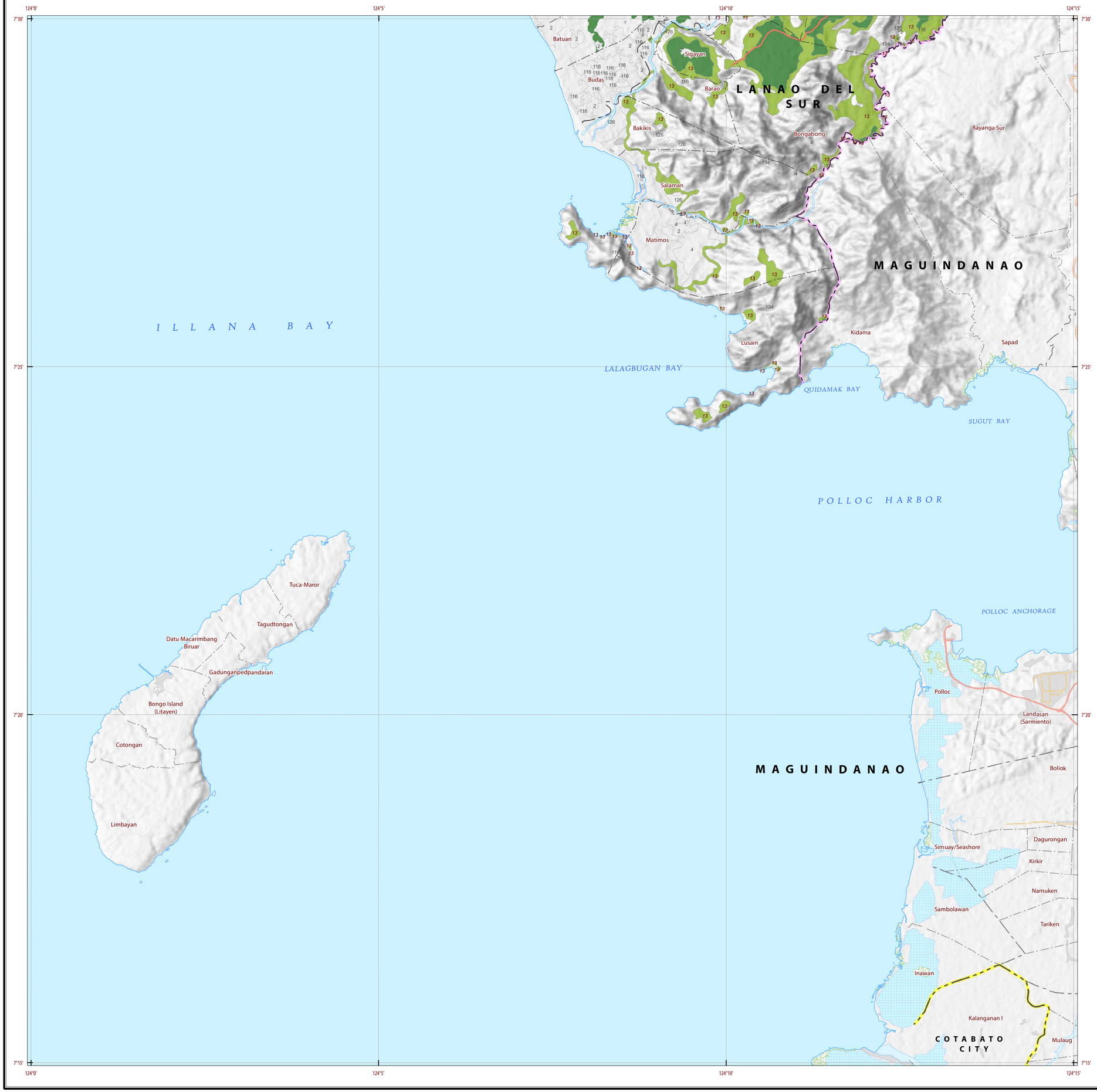
PROVINCE OF LANAO DEL SUR



LAND SUITABILITY MAP
RUBBER

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

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