

LAND SUITABILITY MAP

ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF BATANGAS



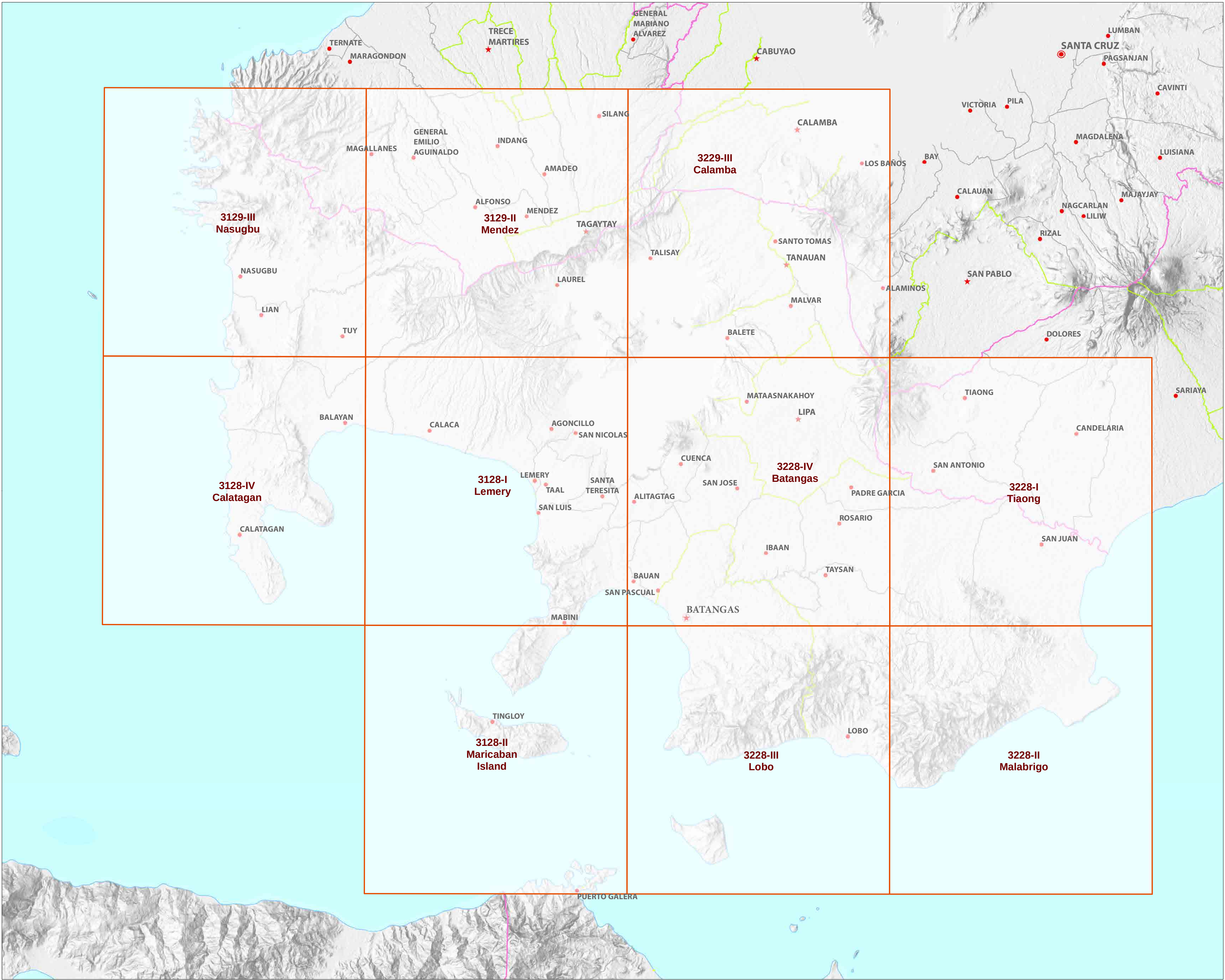
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT

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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF BATANGAS



LEGEND

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

Administrative Boundary

- Regional
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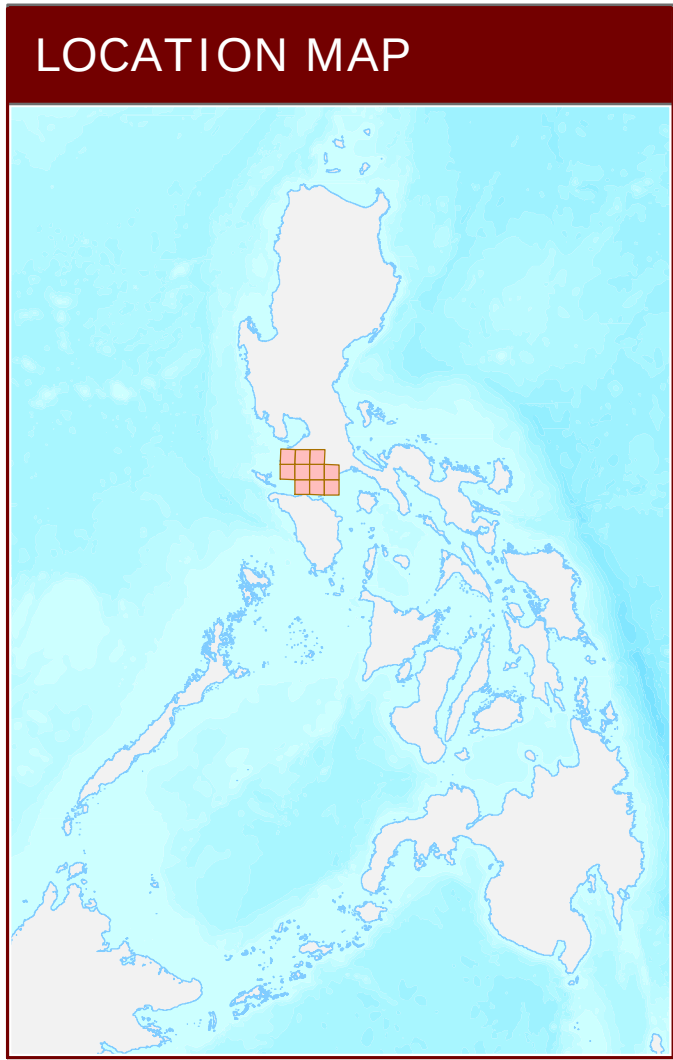
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LAND SUITABILITY MAP FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

BATANGAS, REGION IV-A

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 (Ha)								TOTAL POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S3		Coconut		Shrubland, unmanaged*		Grassland, non-irrigated*		Rice paddy, non-irrigated		Corn		Sugarcane		Other crops		
					S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	
AGONCILLO	-	-	-	-	-	-	-	-	-	-	10	-	5	-	31	-	46	-	92
ALITACTAG	-	-	-	-	9	4	1	1	-	-	39	-	12	2	-	-	-	-	68
BALAYAN	-	-	3	3	12	2	6	-	-	1	189	10	113	6	201	-	-	1	541
BALETE	-	-	-	-	10	14	-	1	7	1	11	2	7	2	-	-	7	2	64
BATANGAS CITY	-	-	-	-	156	19	13	12	8	3	88	9	60	15	-	-	3	-	386
BAUAN	1	-	1	2	33	5	5	-	4	-	30	-	8	-	-	-	2	-	87
CALACA	1	27	35	63	6	12	-	-	-	-	143	70	40	11	115	79	48	56	580
CALATAGAN	-	-	-	-	109	18	7	8	21	11	226	46	136	19	17	-	5	2	625
CITY OF TANAUAN	-	-	-	-	29	11	-	-	-	-	147	8	91	3	138	7	19	8	461
CUENCA	1	-	-	1	7	6	2	2	-	-	3	-	4	-	-	-	-	-	24
IBAAN	-	-	-	-	54	1	-	-	-	-	66	2	62	1	-	-	-	-	186
LAUREL	-	-	-	-	18	2	2	-	2	3	18	-	9	-	9	-	43	1	107
LEMERY	-	-	-	-	-	-	-	-	-	-	45	22	18	-	22	32	29	31	199
LIAN	-	-	-	-	23	1	14	1	5	-	211	5	122	5	28	-	7	-	422
LIPA CITY	26	-	33	59	83	11	5	-	1	-	110	-	88	1	-	-	-	-	299
LOBO	-	1	3	4	55	10	32	3	22	-	17	6	24	6	-	-	-	-	175
MABINI	-	-	-	-	31	-	7	-	4	-	-	-	-	-	-	-	-	-	42
MALVAR	-	-	-	-	7	6	-	-	-	-	34	-	13	5	-	-	-	-	65
MATAASNAKAHOY	-	-	-	-	8	5	-	-	-	-	3	-	2	-	-	-	-	2	20
NASUGBU	6	-	4	11	114	20	39	6	14	2	264	48	173	15	21	-	-	-	716
PADRE GARCIA	8	-	-	8	18	-	-	-	-	-	57	-	35	-	-	-	-	-	110
ROSARIO	9	-	-	9	73	7	6	-	7	-	285	5	147	10	-	-	-	-	540
SAN JOSE	-	1	-	1	24	9	-	-	-	-	19	-	7	-	-	-	-	-	59
SAN JUAN	1	-	-	1	82	18	22	6	2	1	280	21	216	8	-	-	-	-	656
SAN LUIS	1	-	-	1	7	5	-	-	-	-	22	-	18	11	-	-	-	-	63
SAN NICOLAS	-	-	-	-	-	-	2	-	37	-	39	-	4	-	23	-	10	-	115
SAN PASCUAL	-	-	-	-	35	7	-	-	-	-	42	3	4	-	-	-	-	-	91
SANTA TERESITA	-	-	-	-	3	3	-	-	-	-	14	1	15	3	5	1	3	3	51
SANTO TOMAS	-	-	-	-	20	6	3	-	6	-	62	1	63	2	-	-	-	-	163
TAAL	-	-	-	-	1	1	-	-	-	-	49	5	27	5	28	1	8	-	125
TALISAY	-	-	-	-	20	-	13	1	30	1	13	-	6	-	3	-	25	-	112
TAYSAN	6	-	-	6	48	-	-	-	3	-	58	-	17	5	-	-	-	-	131
TINGLOY	-	-	-	-	25	-	1	-	4	-	-	-	7	-	-	-	-	-	37
TUY	-	-	-	-	1	2	5	6	-	1	174	75	158	16	8	-	-	-	446
TOTAL	60	29	80	169	1,121	205	185	47	177	24	2,768	339	1,711	151	649	120	255	106	7,858

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

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	

SLOPE (%)		SOIL DRAINAGE		SOIL REACTION (pH)		SOIL TEXTURE	
0 - 3	- level to gently sloping	ED	- excessively drained	< 4.5	- extremely acid	Coarse	
3 - 8	- gently sloping to undulating	WD	- well drained	4.5 - 5.0	- very strongly acid	S	- sand
8 - 18	- undulating to rolling	MWD	- moderately well drained	5.1 - 5.5	- strongly acid	LS	- loamy sand
18 - 30	- rolling to moderately steep	SPD	- somewhat poorly drained	5.6 - 6.0	- medium acid	CSL	- coarse sandy loam
30 - 50	- steep	PD	- poorly drained	6.1 - 6.5	- slightly acid	SL	- sandy loam
> 50	- very steep	VPD	- very poorly drained	6.6 - 7.2	- neutral	Medium	
				7.3 - 7.8	- mildly alkaline	FSL	- fine sandy loam
				7.9 - 8.4	- moderately alkaline	L	- loam
				> 8.5	- strongly alkaline	SiL	- silt loam
						CL	- clay loam
						SiCL	- silty clay loam
						SCL	- sandy clay loam

SOIL DEPTH (cm)		SURFACE IMPEDIMENT	
0 - 30	- very shallow	ROCK OUTCROPS	
30 - 50	- shallow	< 10% - none - few	
50 - 100	- moderately deep	10 - 30% - common	
> 100	- deep to very deep	> 30% - many	

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION		SOIL DRAINAGE		SOIL DEPTH		SOIL EROSION	
EI2	- 1000m - 2000m	D2	- Somewhat poorly drained to poorly drained	Sh2	- Shallow to moderately deep (30 - 100cm)	E2	- Moderate erosion
EI3	- > 2000m	D3	- Very poorly drained or excessively drained	Sh3	- Very shallow (< 30cm)	E3	- Severe erosion

SLOPE/TOPOGRAPHY		SOIL TEXTURE		ROCK OUTCROPS		FLOODING	
T2	- Undulating to moderately steep	Tc	- Coarse texture	Rc2	- Common	F2	- Moderate seasonal flooding
T3	- Steep to very steep			Rc3	- Many	F3	- Severe seasonal flooding

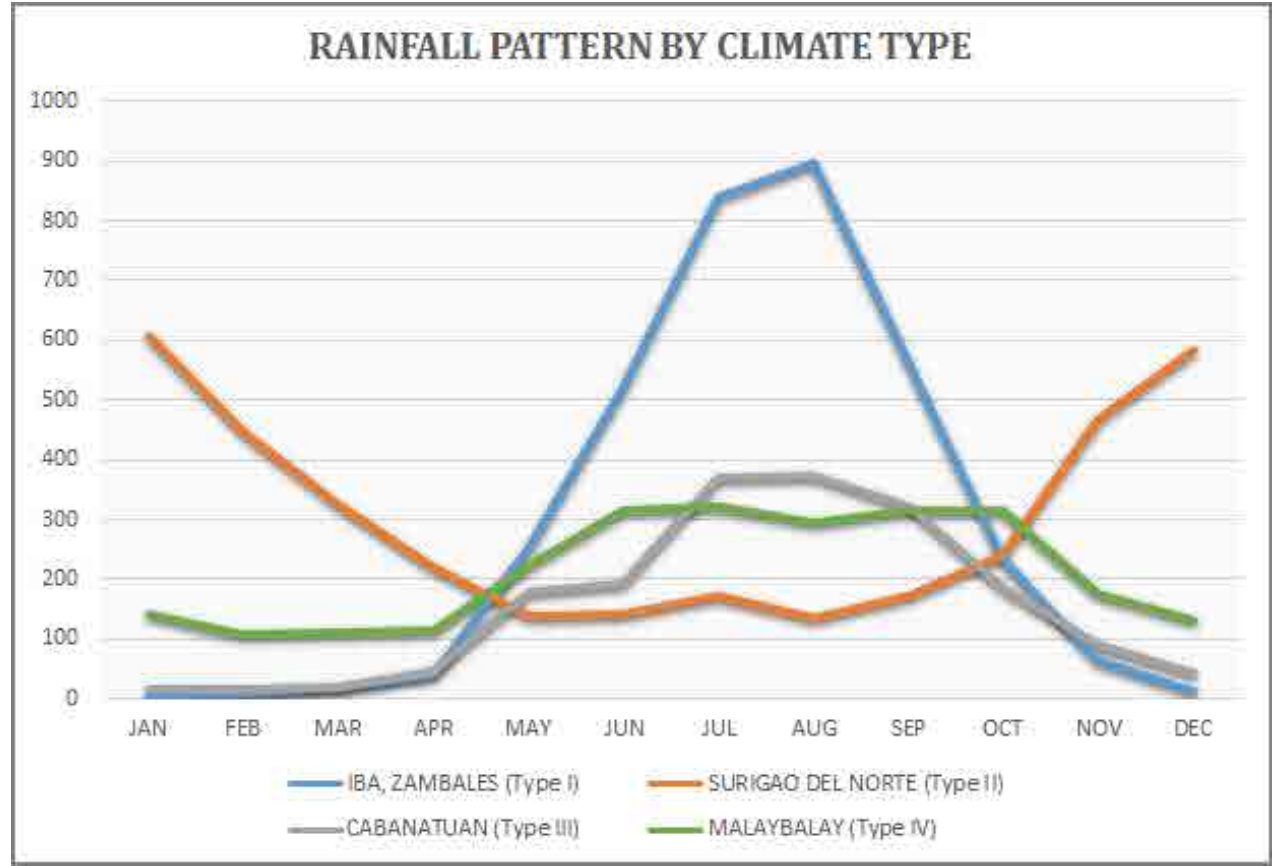
SUITABILITY CLASSES:

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

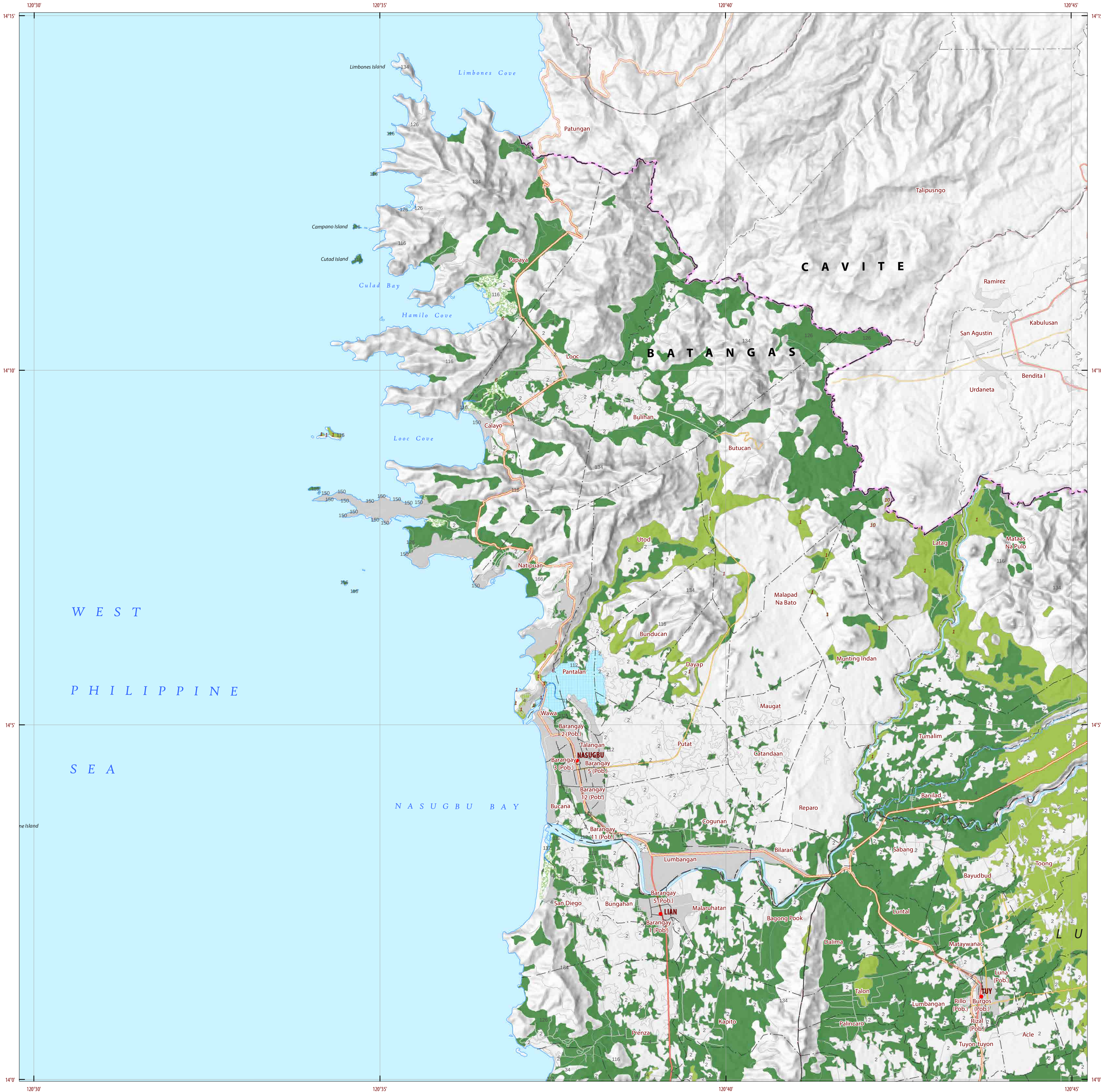
TYPE I : Two pronounced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September	No dry season with a very pronounced maximum rain period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the 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.	Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

Western part of Batangas belongs to Type I climate classification and the rest on Eastern part belongs to 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	LAND LIMITATION	CODE	LAND LIMITATION	CODE	LAND USE
1	E2-Sh2-Rc2	11	T2-E3-Sh2-Rc3	2	Rice paddy, non-irrigated
2	F2-D2	12	T2-E3-Sh3-Rc2	4	Corn
3	F3-D2	13	T2-E3-Sh3-Rc3	34	Diversified crops
4	Sh2-Rc2	14	T2-F2-D2	81	Coffee
5	Sh2-Rc3	15	T2-F3-D2	112	Sugarcane
6	T2	16	T3	116	Coconut
7	T2-E3	17	T3-E3	126	Grassland
8	T2-E3-Rc2	18	T3-E3-Sh3-Rc3	134	Shrubs, unmanaged
9	T2-E3-Rc3	19	T3-EI2-E3-Sh3-Rc3		
10	T2-E3-Sh2-Rc2	20	Tc		



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.
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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
- Coffee
- 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

3129-III

INDEX MAP

MISCELLANEOUS INFORMATION

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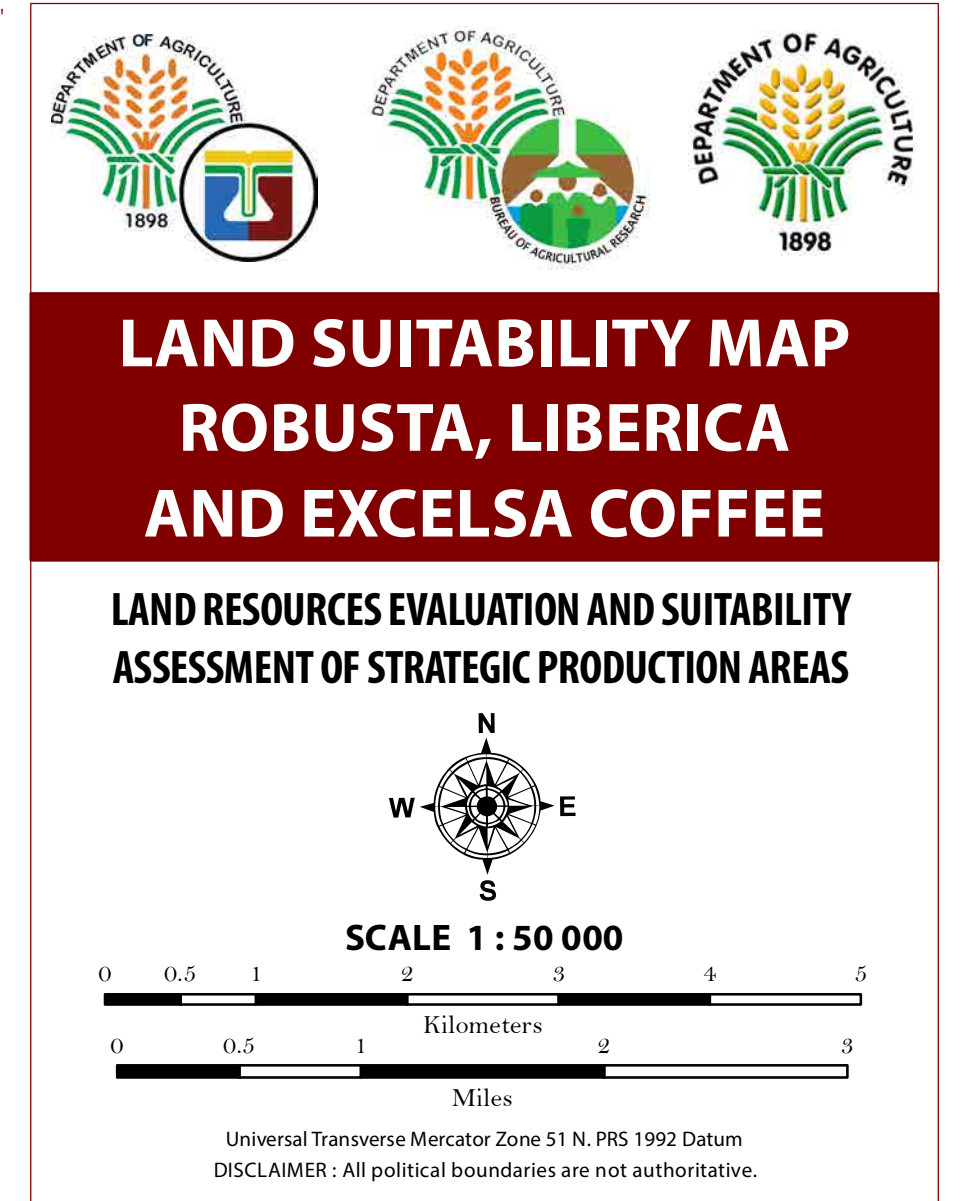
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SUITABILITY CLASSES

☐ Not Suitable/ Not Relevant

OTHER SIGNS



1 Land limitation
116 Land use

CONVENTIONAL SIGNS

ADJOINING SHEETS

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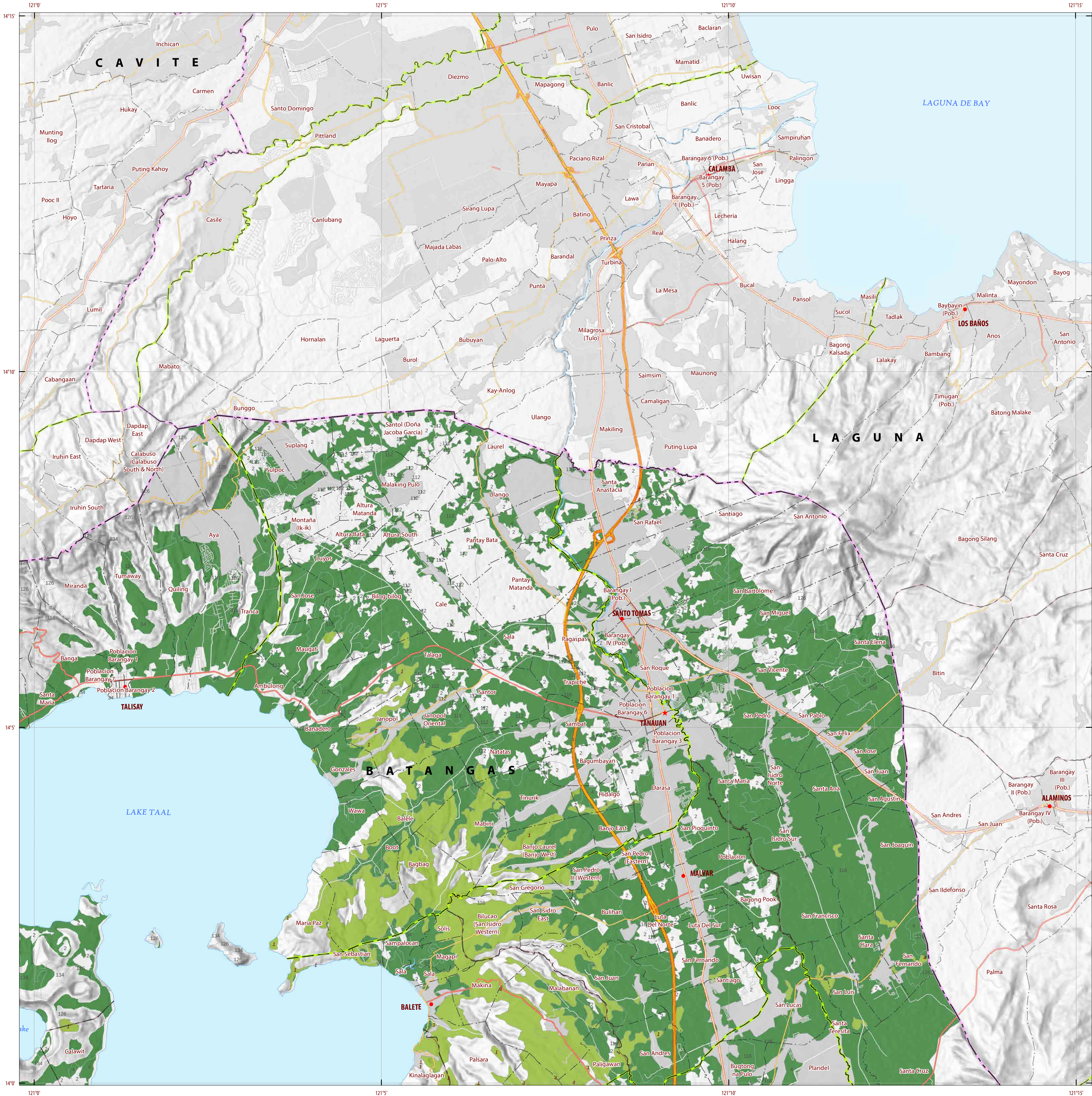
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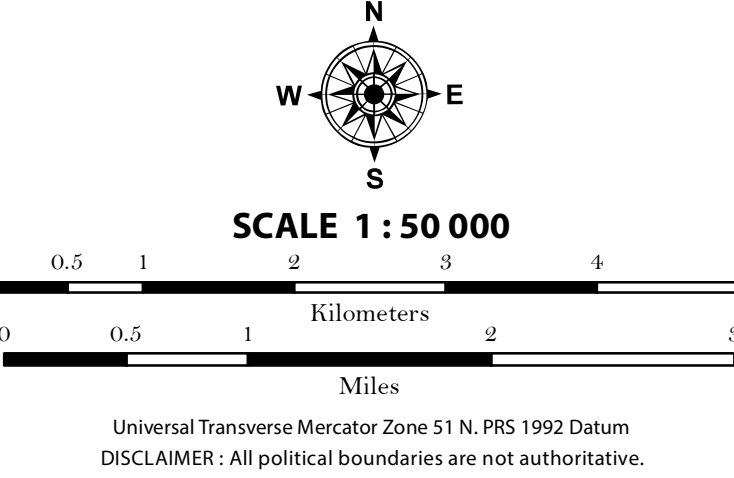
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LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



LEGEND

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Not Suitable/ Not Relevant

OTHER SIGNS

- NGP Areas
- Coffee
- 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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MISCELLANEOUS INFORMATION

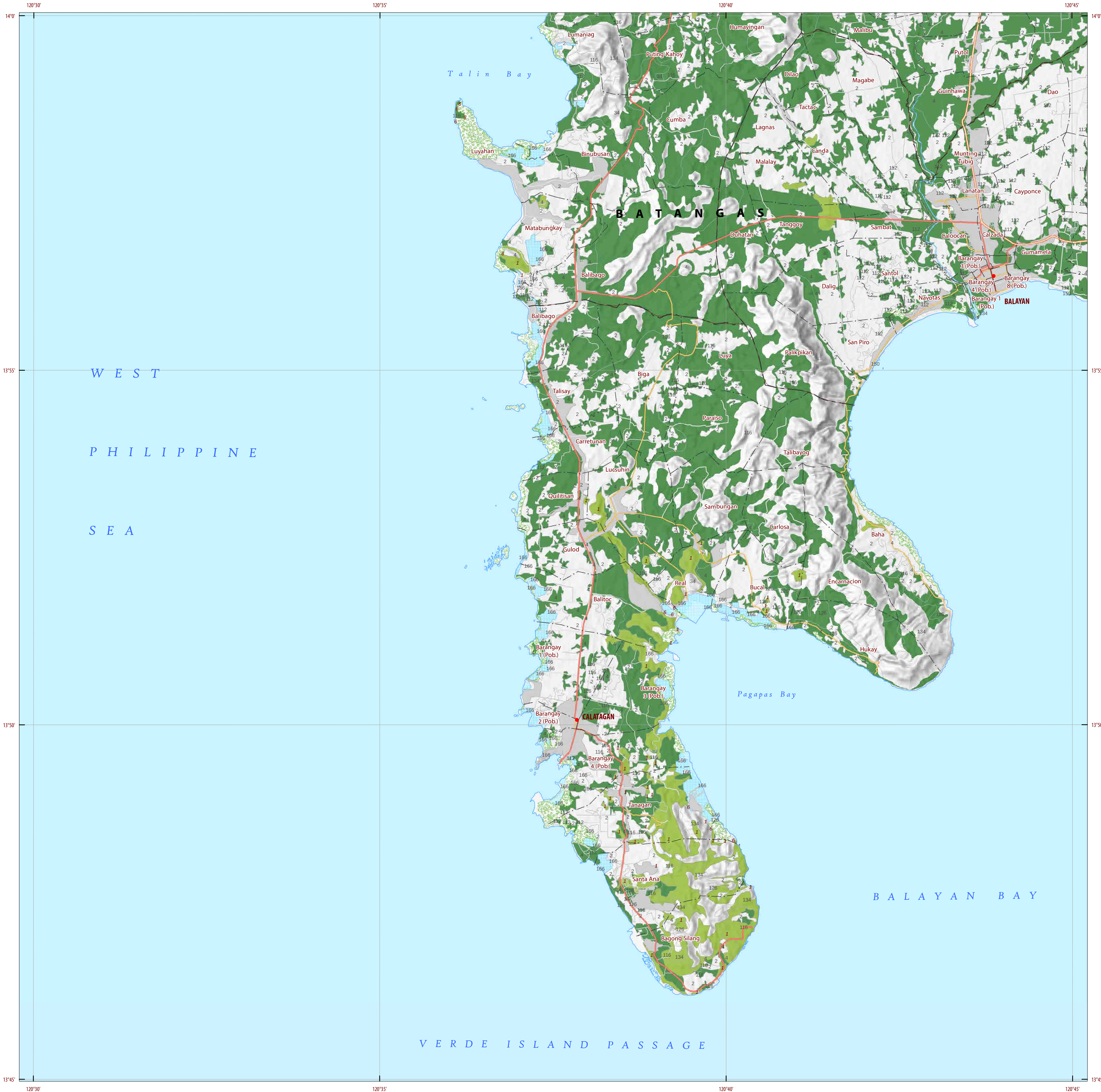
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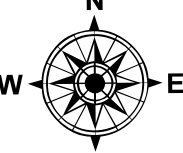
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AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000

0 0.5 1 2 3 4 5
Kilometers

0 0.5 1 2 3
Miles

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LEGEND

SUITABILITY CLASSES

S1

Highly Suitable

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S2

Moderately Suitable

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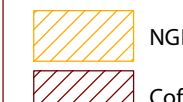
S3

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.

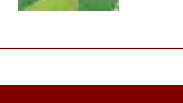
Not Suitable/ Not Relevant

OTHER SIGNS

 NGP Areas

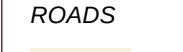
 Coffee

 Land limitation

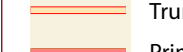
 Land use

CONVENTIONAL SIGNS

ROADS

 Expressway

 Trunk line

 Primary

 Secondary

 Tertiary

BOUNDARY

 Region

 Province

 District

 Municipality

 Barangay

HYDROLOGY

 Sea / Shoreline

 Lakes / Rivers

PLACES

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 Capital Town / Town

LAND USE

 Built-up

 Fishpond

 Mangrove

ADJOINING SHEETS

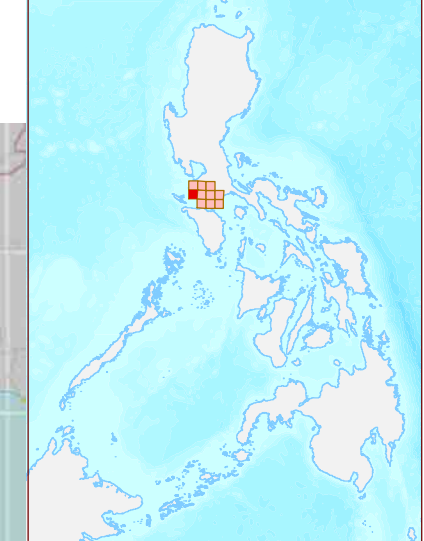
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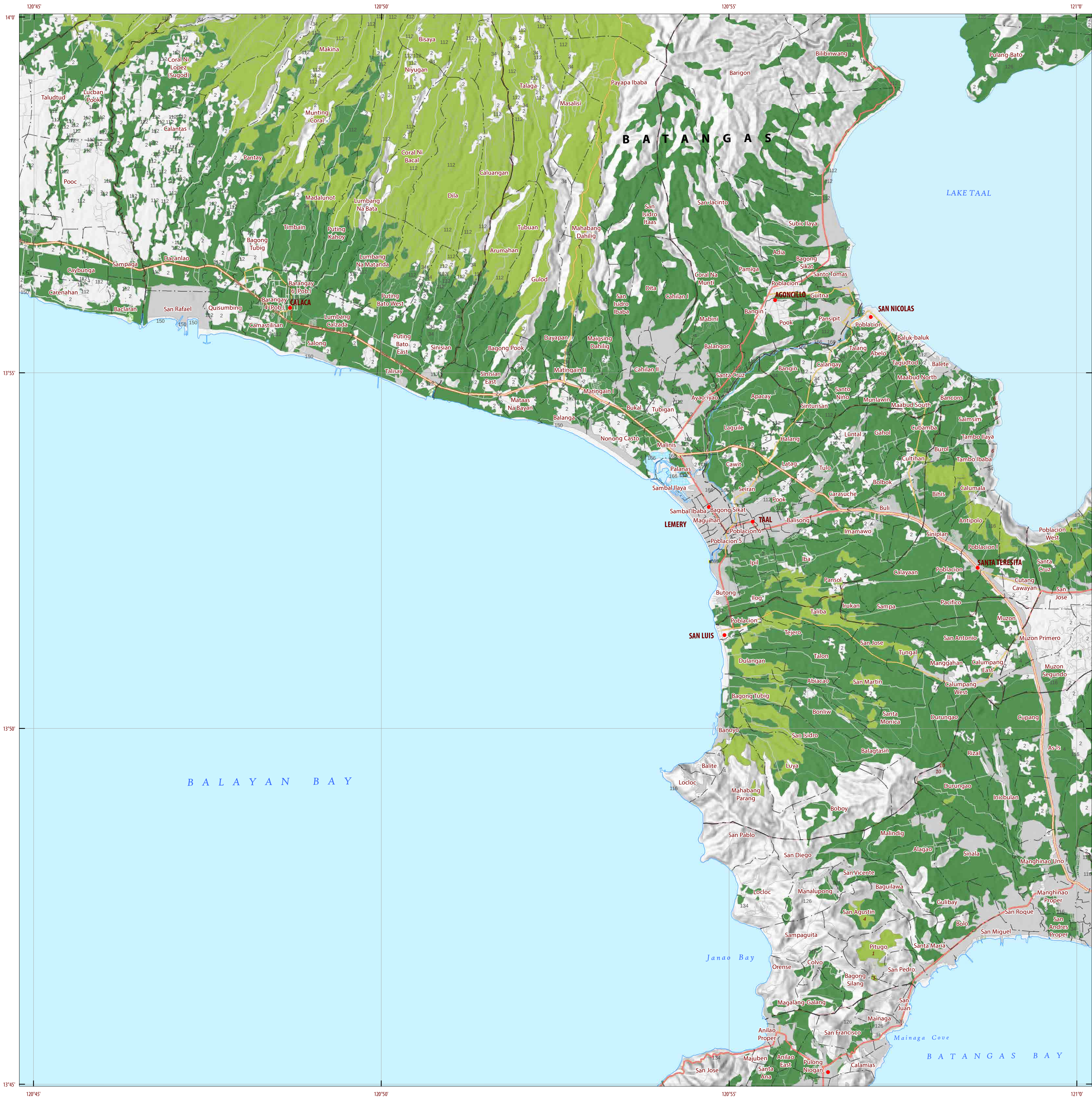
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PROVINCE OF BATANGAS

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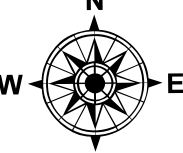
LAND SUITABILITY MAP

ROBUSTA, LIBERICA

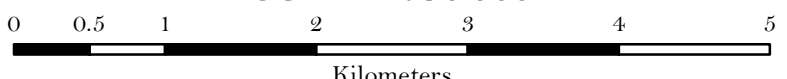
AND EXCELSA COFFEE

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.

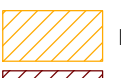
S3

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.

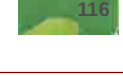
Not Suitable/ Not Relevant

OTHER SIGNS

 NGP Areas

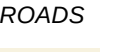
 Coffee

 Land limitation

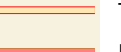
 Land use

CONVENTIONAL SIGNS

ROADS

 Expressway

 Trunk line

 Primary

 Secondary

 Tertiary

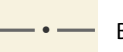
BOUNDARY

 Region

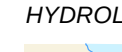
 Province

 District

 Municipality

 Barangay

HYDROLOGY

 Sea / Shoreline

 Lakes / Rivers

PLACES

 Capital City / City

 Capital Town / Town

LAND USE

 Built-up

 Fishpond

 Mangrove

ADJOINING SHEETS

3129-III

3129-II

3129-III

3128-IV

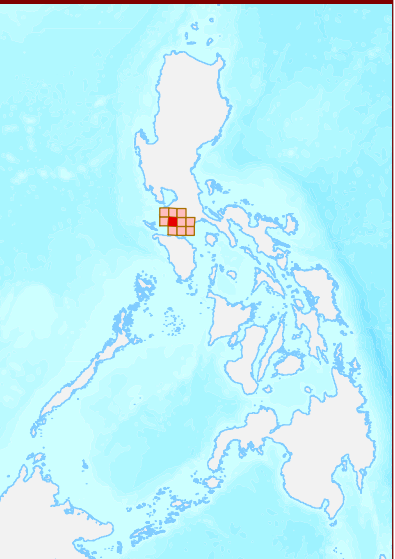
3128-I

3128-IV

3128-II

3128-III

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MISCELLANEOUS INFORMATION

SOURCES OF INFORMATION

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Project Leader

: BERNARDO B. PASCUA

GIS and Cartography

: IRVIN K. SAMALCA

Funding Agency

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

Collaborating Agencies

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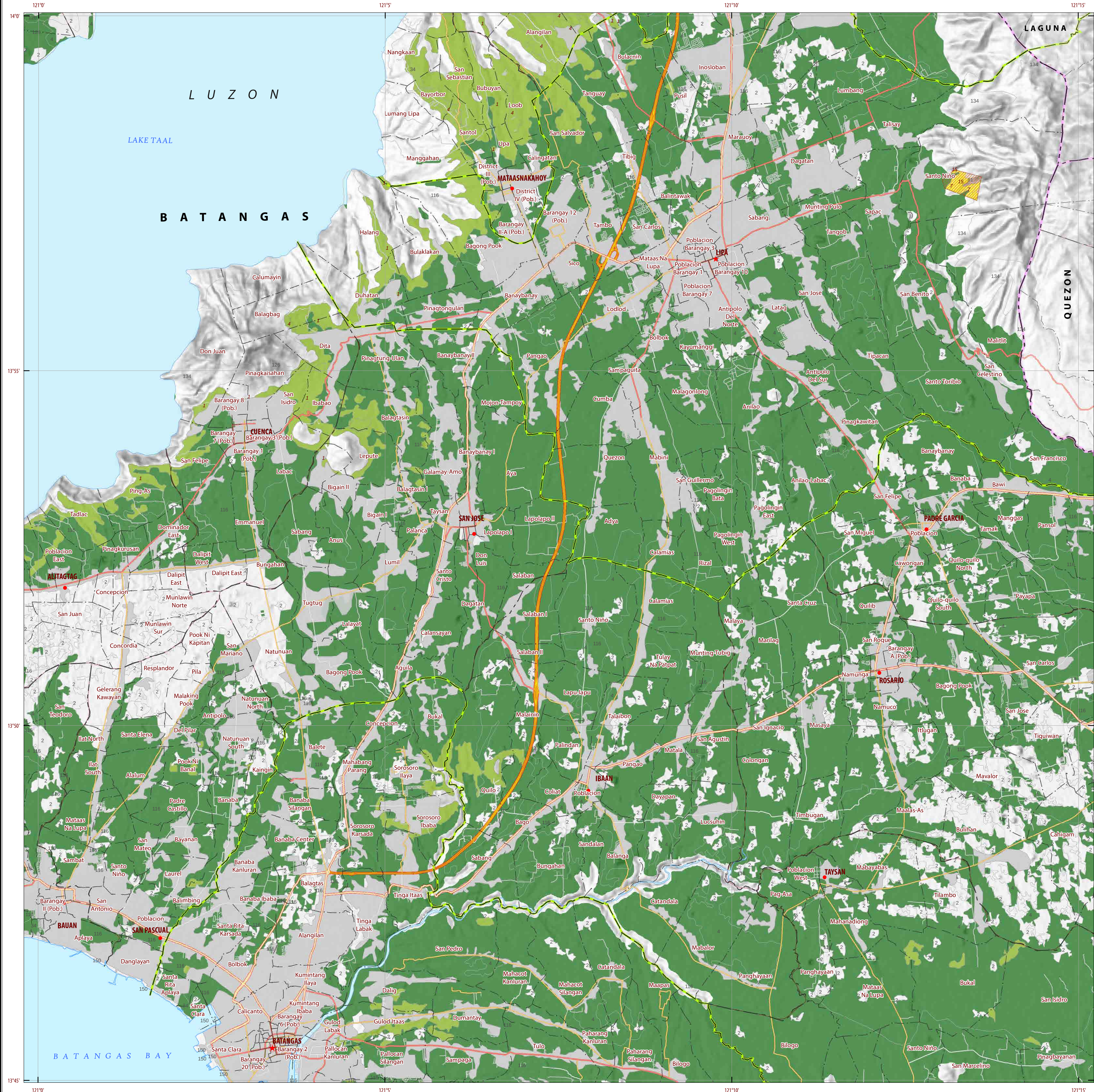
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PROVINCE OF BATANGAS

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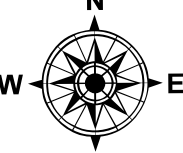
LAND SUITABILITY MAP

ROBUSTA, LIBERICA

AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY

ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000

0 0.5 1 2 3 4 5
Kilometers

0 0.5 1 2 3
Miles

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

LEGEND

SUITABILITY CLASSES

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

S2 **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

Coffee

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

3228-IV

3129-II 3229-III

3128-I 3228-I

3128-II 3228-III 3228-II

INDEX MAP

MISCELLANEOUS INFORMATION

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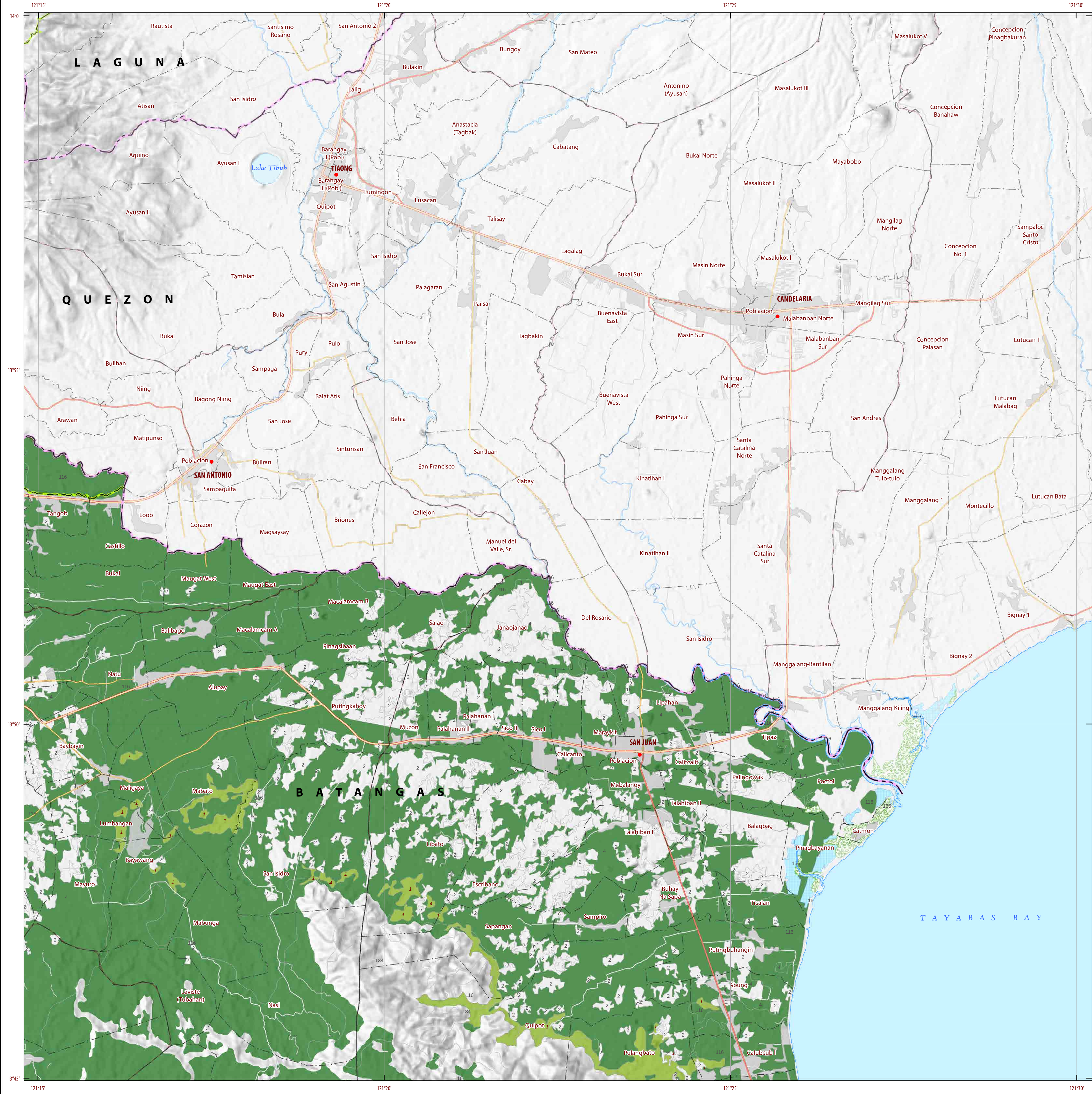
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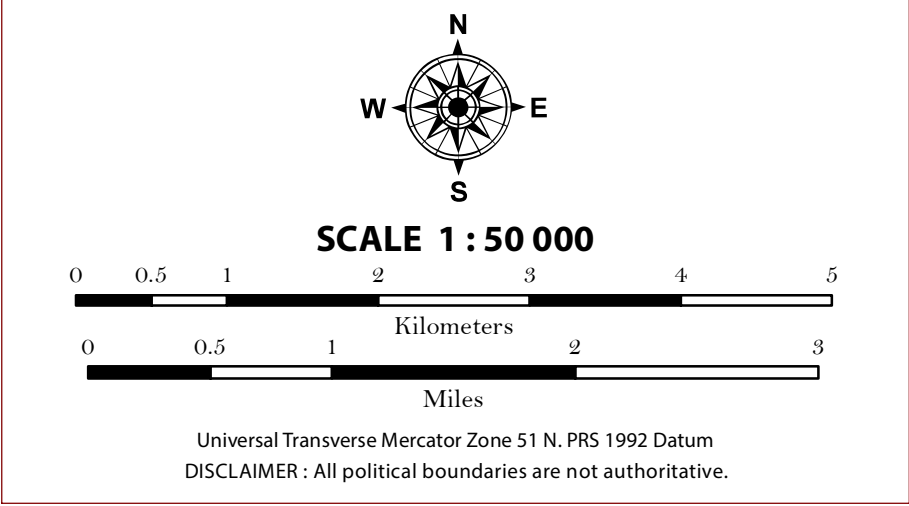
PROVINCE OF BATANGAS

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LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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
- Coffee
- Land limitation
- Land use

CONVENTIONAL SIGNS

ROADS

- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY

- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY

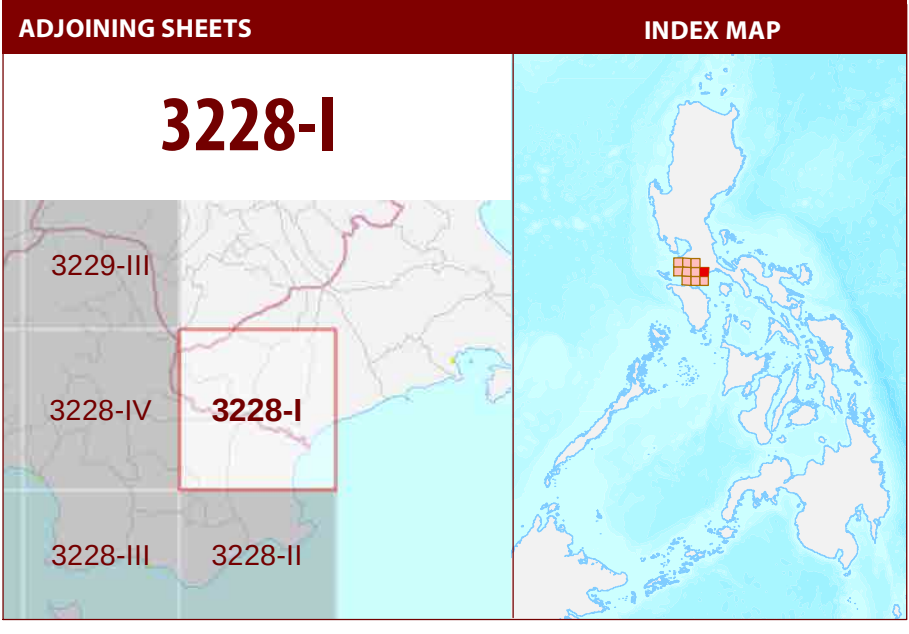
- Sea / Shoreline
- Lakes / Rivers

PLACES

- Capital City / City
- Capital Town / Town

LAND USE

- Built-up
- Fishpond
- Mangrove



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

Coffee

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

3128-II

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MISCELLANEOUS INFORMATION

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PROVINCE OF BATANGAS

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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
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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- 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
- Coffee
- 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

3228-III

INDEX MAP

MISCELLANEOUS INFORMATION

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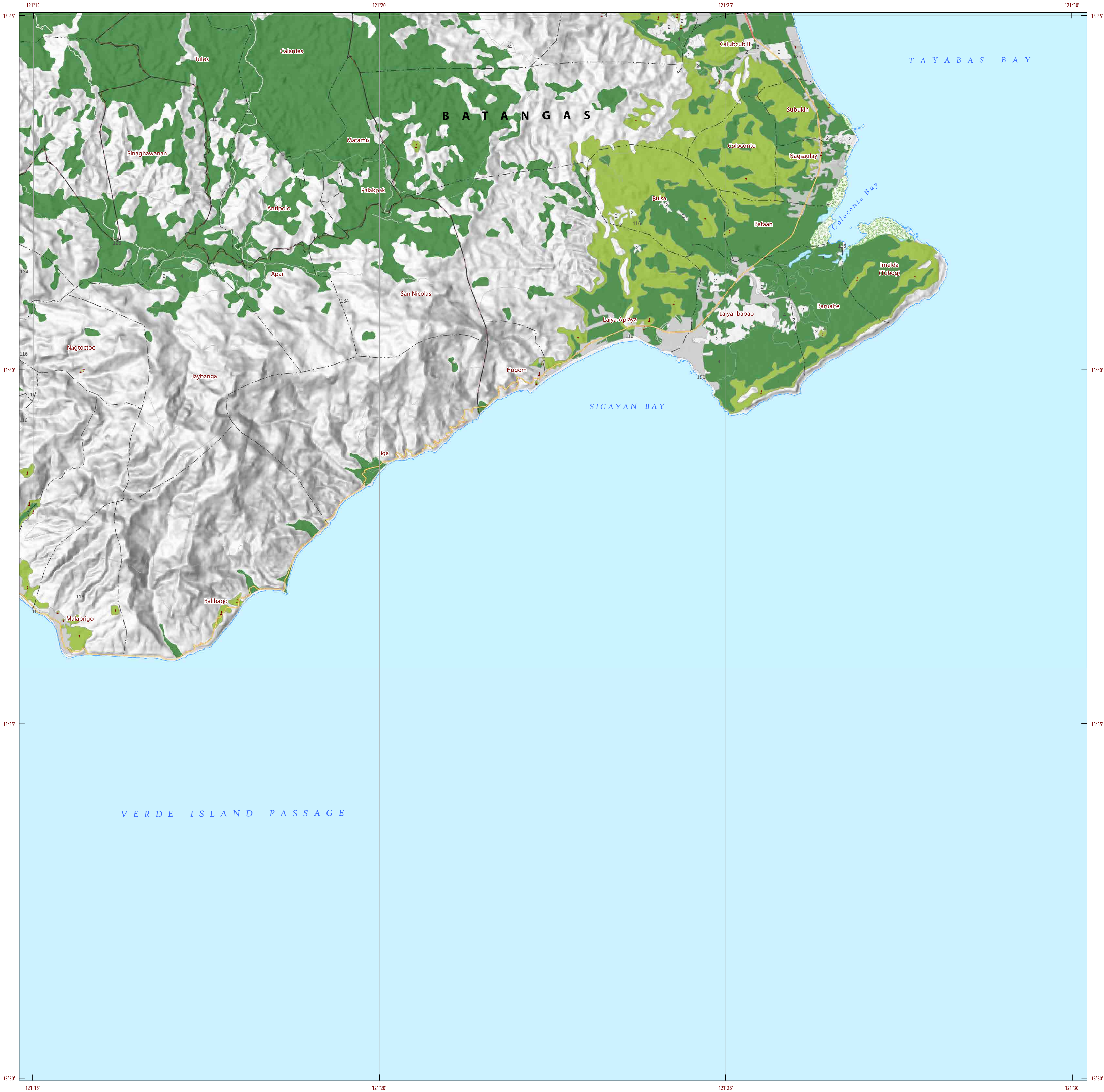
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PROVINCE OF BATANGAS

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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

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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LEGEND

SUITABILITY CLASSES

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Not Suitable/ Not Relevant

OTHER SIGNS

- NGP Areas
- Coffee
- 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

3228-II

INDEX MAP

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PROVINCE OF BATANGAS

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