

LAND SUITABILITY MAP

ARABICA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF CAVITE



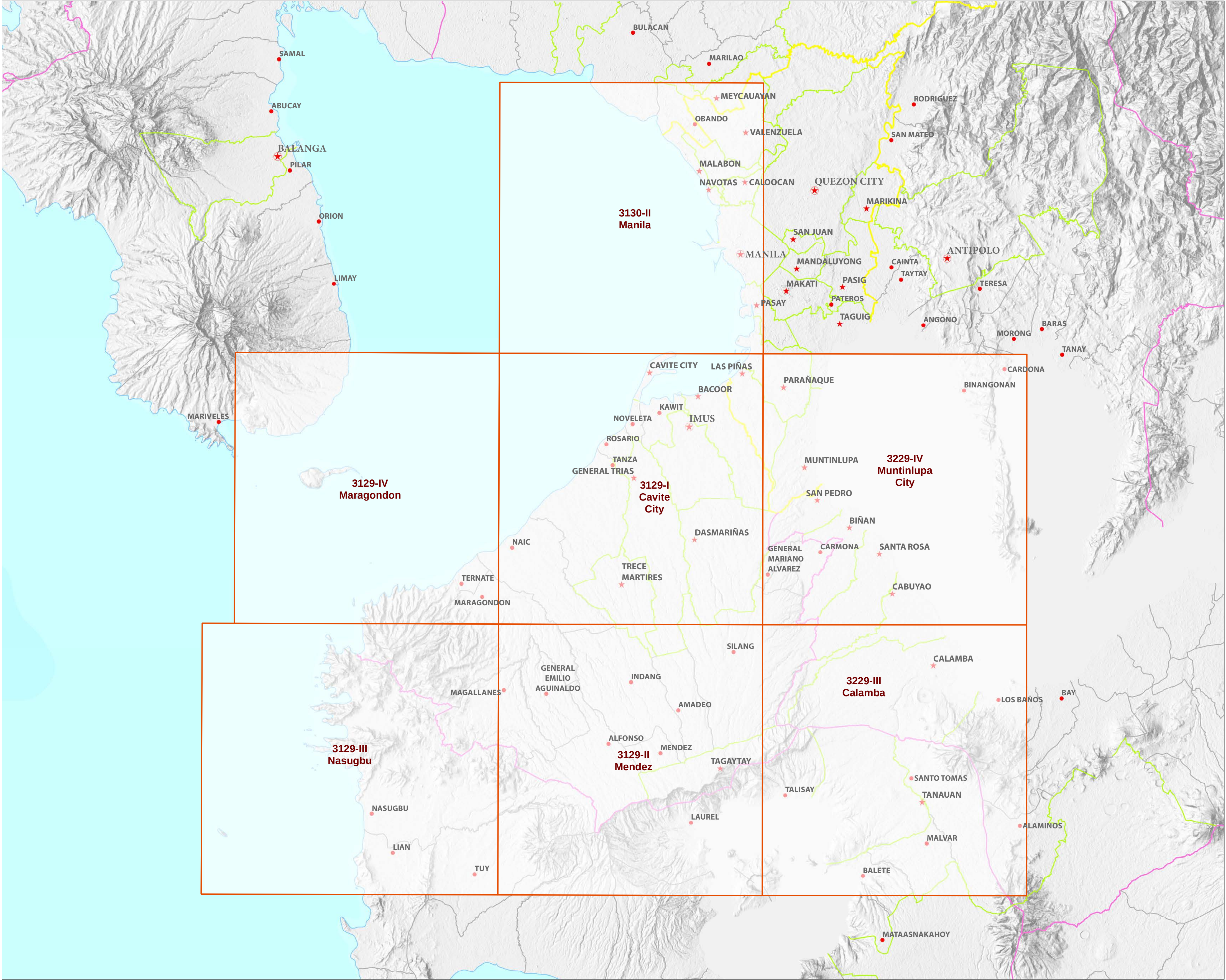
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DEPARTMENT OF AGRICULTURE
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MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF CAVITE



LEGEND

Places

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

Administrative Boundary

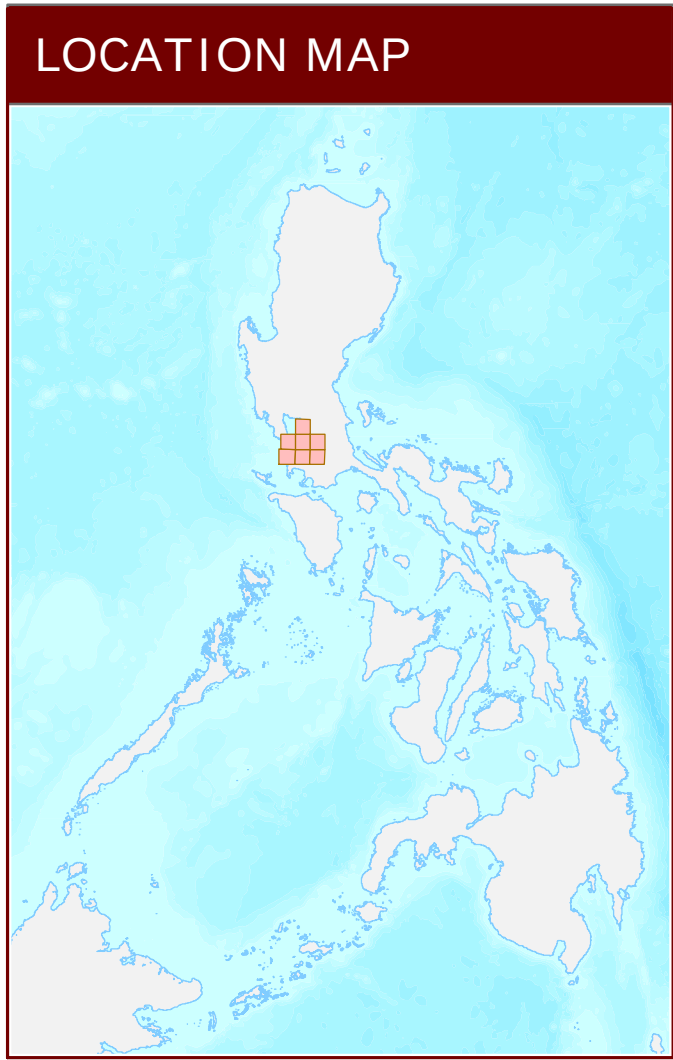
- Regional
- Provincial
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- Municipal

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- Index grid

Topographic Relief

Bathymetry



LAND SUITABILITY MAP FOR ARABICA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS CAVITE, REGION IV-A

EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING COFFEE (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION (Ha)						TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Rice paddy, non-irrigated		Other Crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	
ALFONSO	-	1	11	12	-	794	-	-	-	137	-	497	-	3	-	-	1,431
AMADEO	-	-	-	-	-	379	-	-	-	-	-	190	-	-	-	-	569
BACOR CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARMONA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAVITE CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CITY OF DASMARIÑAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CITY OF GENERAL TRIAS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEN. MARIANO ALVAREZ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GENERAL EMILIO AGUINALDO	-	-	23	23	-	-	-	-	-	-	-	-	-	-	-	-	-
IMUS CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDANG	-	-	-	-	-	255	-	-	-	-	-	34	-	-	-	-	289
KAWIT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAGALLANES	-	-	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
MARAGONDON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MENDEZ	-	-	-	-	-	680	-	-	-	-	-	47	-	-	-	-	727
NAIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOVELETA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROSARIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SILANG	-	-	-	-	-	160	-	-	-	-	-	178	-	-	-	-	338
TAGAYTAY CITY	-	-	-	-	-	931	-	-	-	6	-	422	-	-	-	-	1,360
TANZA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TERNATE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRECE MARTIRES CITY	-	-	-	-	-	3,199	-	-	-	144	-	1,368	-	3	-	-	4,714
TOTAL	-	1	39	40	-	6,398	-	-	-	287	-	2,736	-	7	-	-	9,427

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 ARABICA 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 (Arabica)	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	1000-2000	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	500-1000 2000-2500	1000-2000	I, II
	S3	>30	<30	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	<500 >2500	<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 DEPTH (cm)

0 - 30	- very shallow
30 - 50	- shallow
50 - 100	- moderately deep
> 100	- deep to very deep

SOIL DRAINAGE

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

SURFACE IMPEDIMENT

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

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	LAND LIMITATION	CODE	LAND LIMITATION
1	EI2	11	T2-EI2-E3-Sh2-Rc2
2	EI2-E2-Sh2-Rc2	12	T2-EI2-E3-Sh2-Rc3
3	EI2-E2-Sh2-Rc3	13	T2-EI2-F3-D2
4	EI2-E3-Sh2-Rc3	14	T3-EI2
5	EI2-F2-D2	15	T3-EI2-E3
6	EI2-F3-D2	16	T3-EI2-E3-Sh3-Rc2
7	EI2-Rc2	17	T3-EI2-E3-Sh3-Rc3
8	EI2-Sh2-Rc2		
9	T2-EI2		
10	T2-EI2-E3		

CODE	LAND USE
2	Rice, non-irrigated
4	Corn
34	Diversified crops
82	Cacao
116	Coconut
126	Grassland
134	Shrubland, unmanaged

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

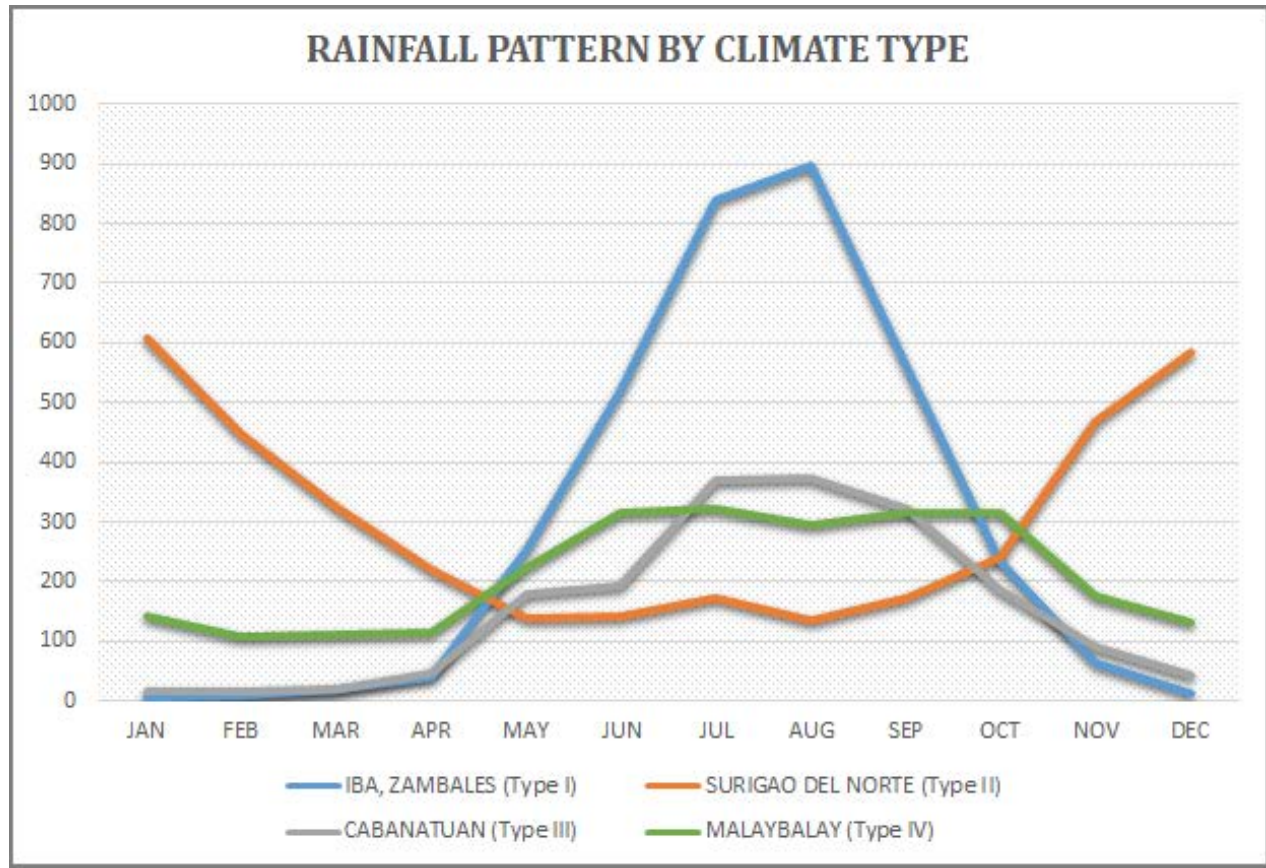
TYPE I : Two pronounced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September

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.

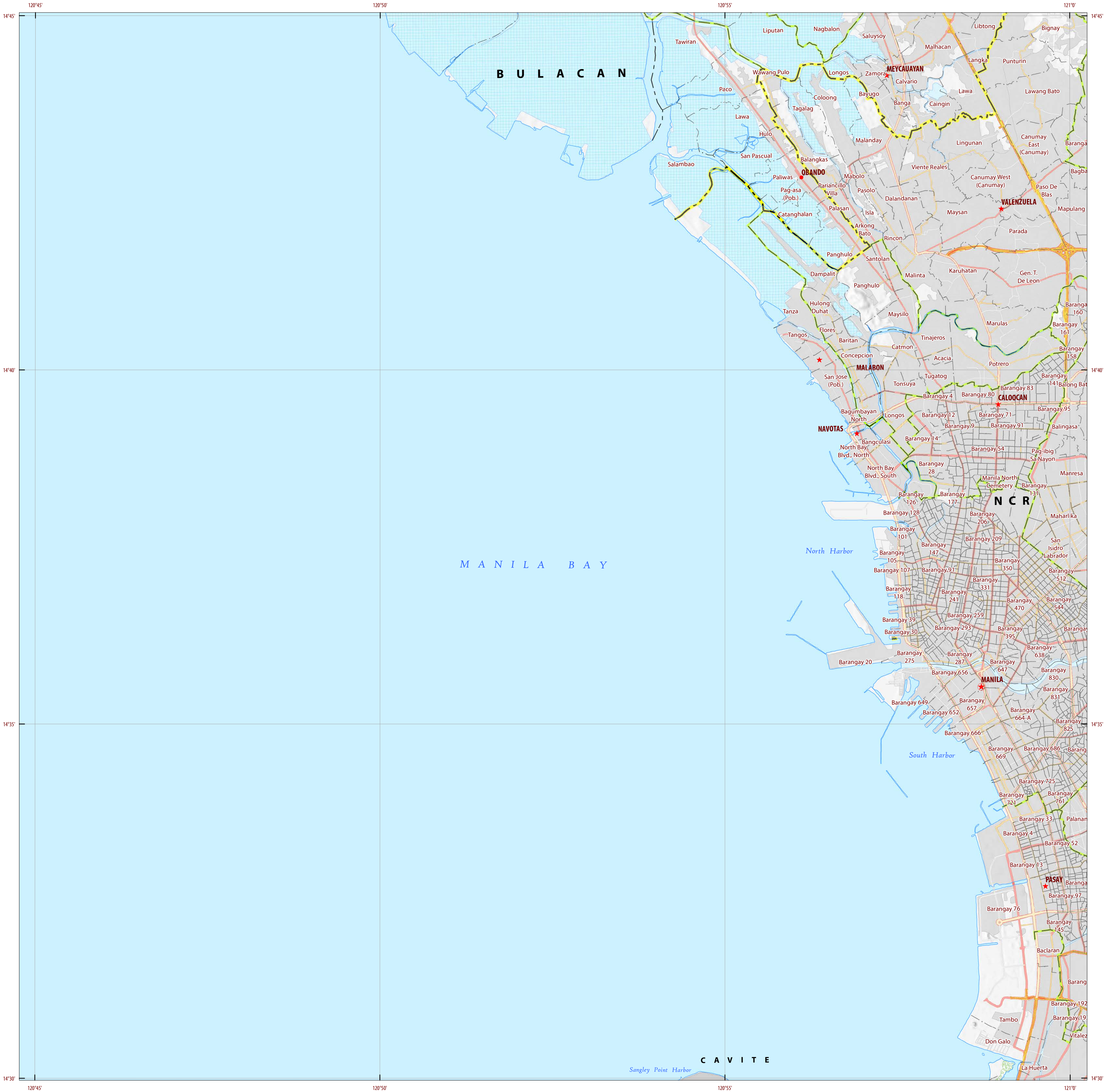
TYPE III : No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

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

The whole part of Cavite classified as climatic Type I.



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



LAND SUITABILITY MAP
ARABICA 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

3130-II

3129-IV 3129-I 3229-IV

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 Coffee and Cacao Project implemented by BSWM (2017).

Project Leader : BERNARDO B. PASCUA
GIS and Cartography : IRVIN K. SAMALCA

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PROVINCE OF CAVITE Sheet 1 of 7 Sheet No. 3130-II



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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

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LEGEND

SUITABILITY CLASSES

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

Not Suitable/ Not Relevant

OTHER SIGNS

- 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-IV

INDEX MAP

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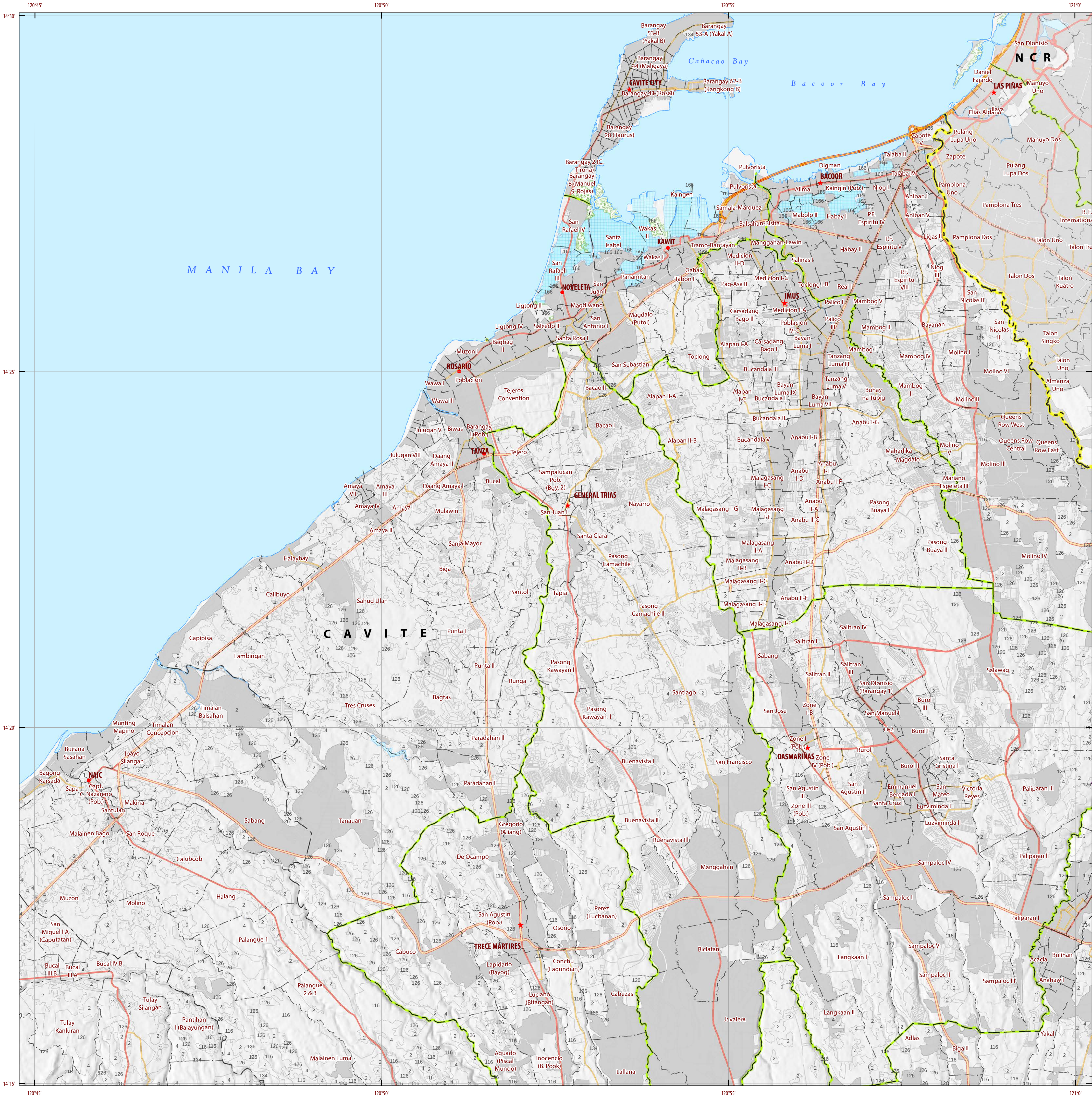
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ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

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LEGEND

SUITABILITY CLASSES

S1

Highly Suitable

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

S2

Moderately Suitable

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

S3

Marginally Suitable

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

Not Suitable/ Not Relevant

OTHER SIGNS

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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LAND USE

Built-up

Fishpond

Mangrove

ADJOINING SHEETS

INDEX MAP

3129-I

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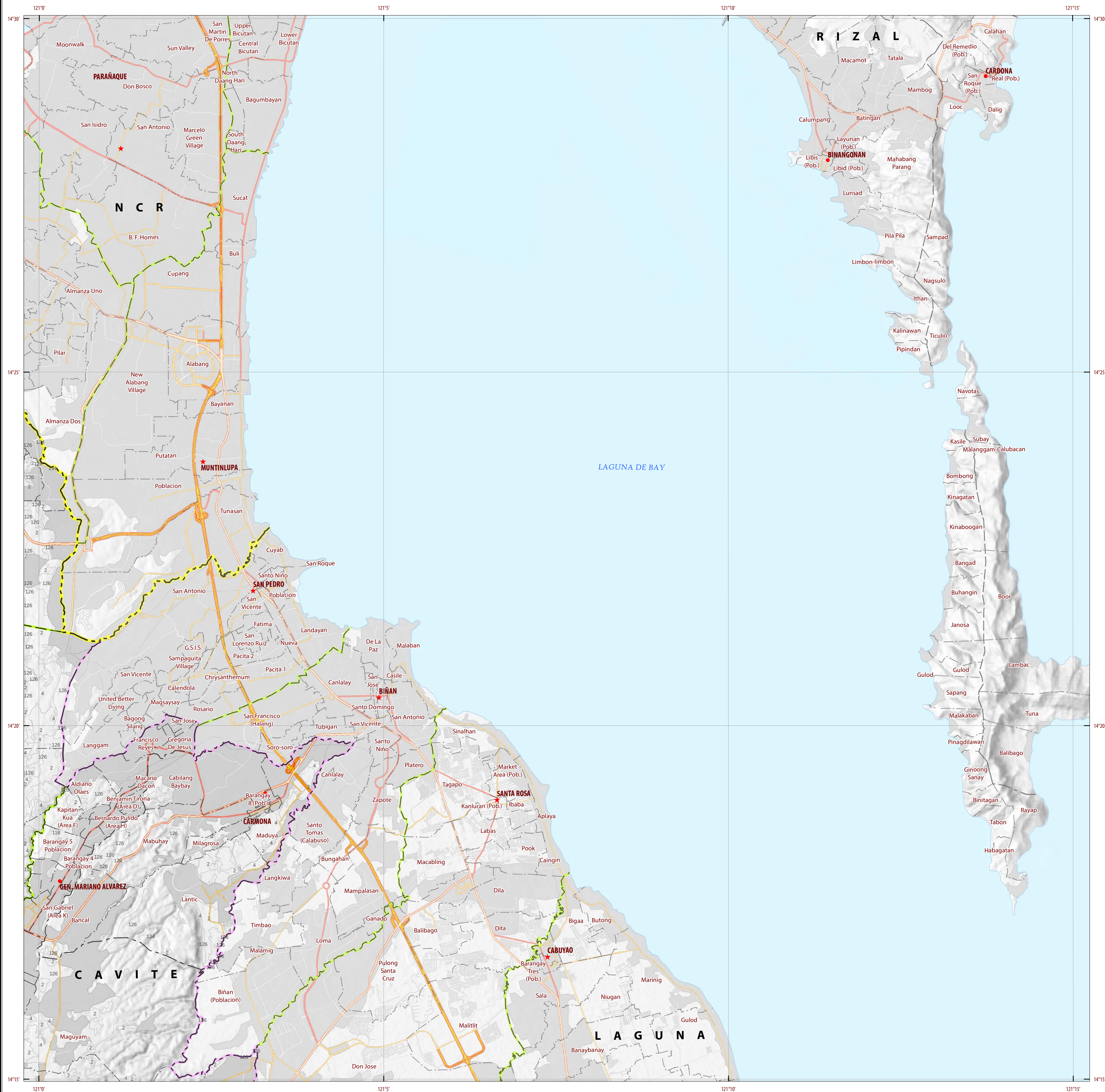
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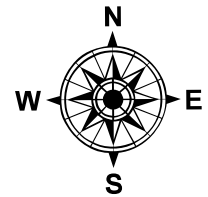
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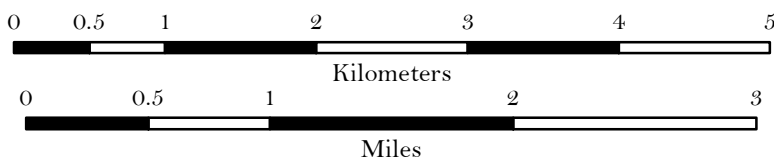
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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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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 road
-  Secondary road
-  Tertiary road

BOUNDARY

- Region
Sea / Shoreline
Lakes / Rivers

HYDROLOGY

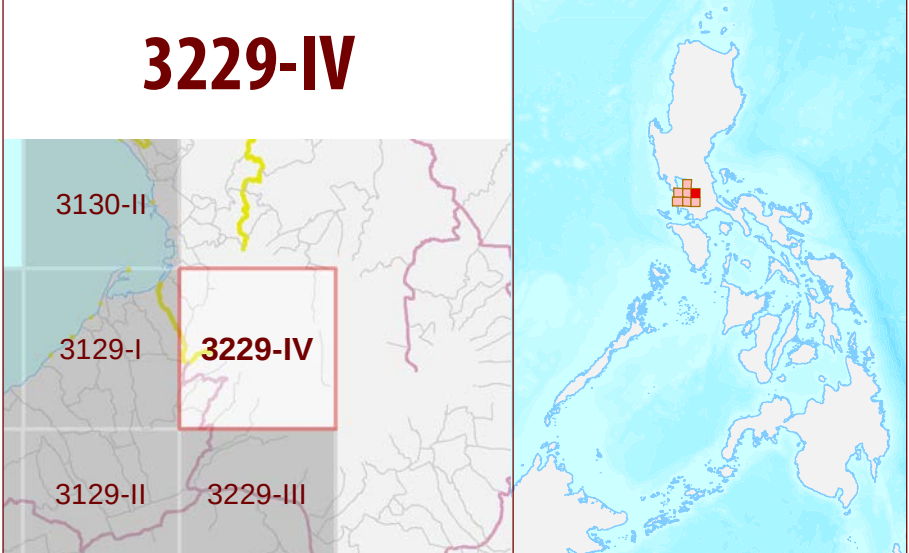
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Lakes / Rivers
- PLACES**
- ★ ★ Capital City / City
● ● Capital Town / Town

LAND USE

- Built-up Fishpond Mangrove

ADJOINING SHEETS

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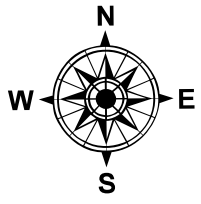
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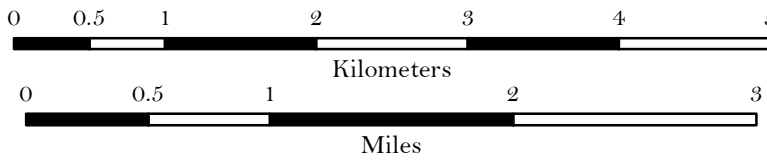


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- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall 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

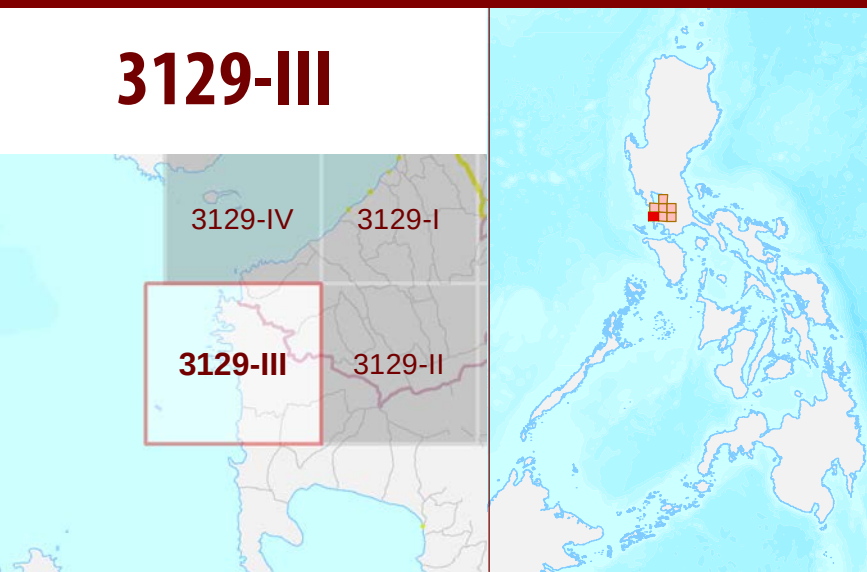
OTHER SIGNS

- 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



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 Coffee and Cacao Project** implemented by BSWM (2017).

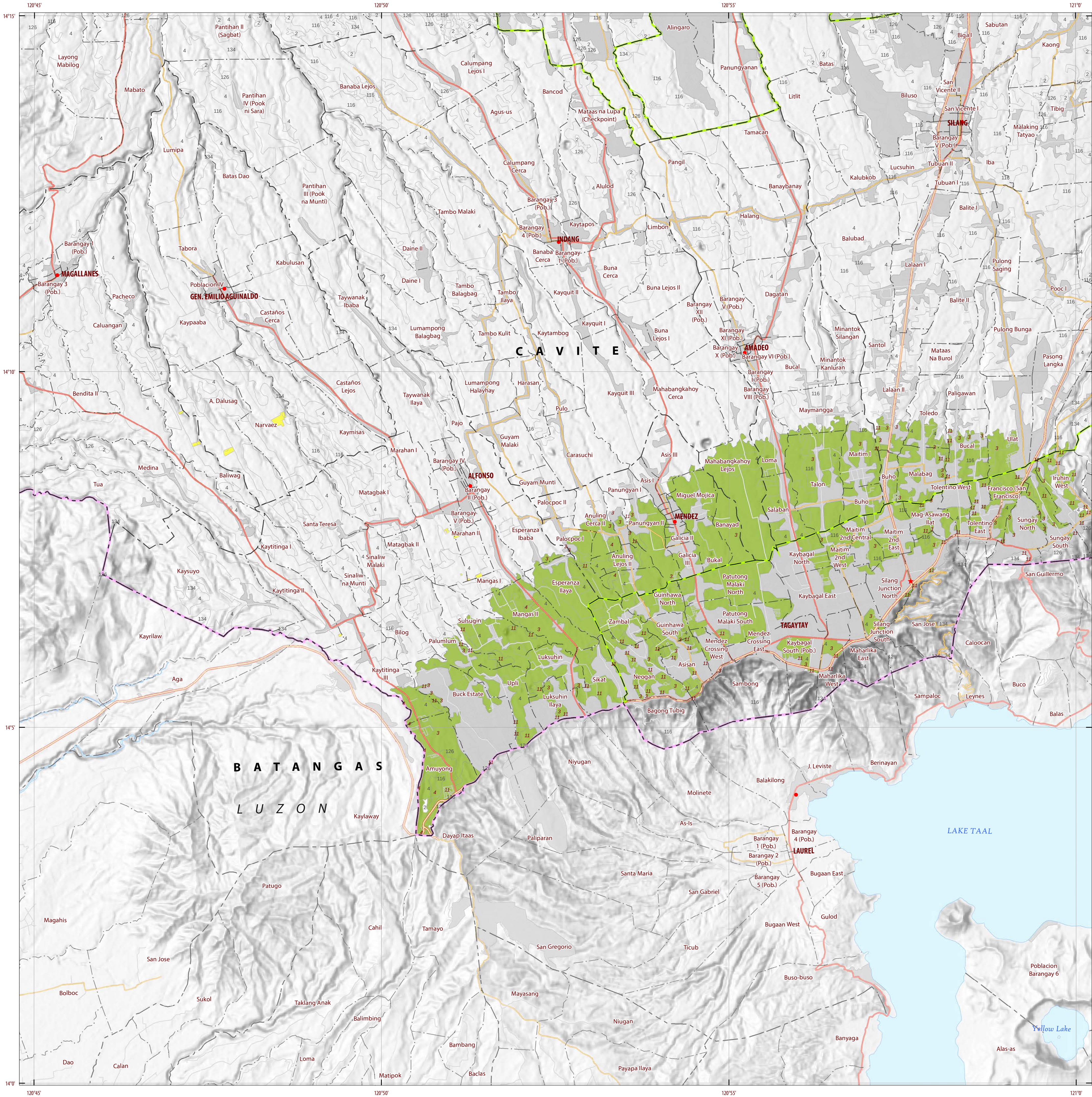
Project Leader : BERNARDO B. PASCUA
GIS and Cartography : IRVIN K. SAMALCA

Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)
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: Local Government Unit (LGU) of covered provinces and municipalities

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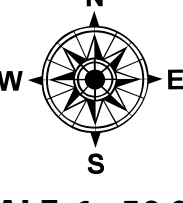
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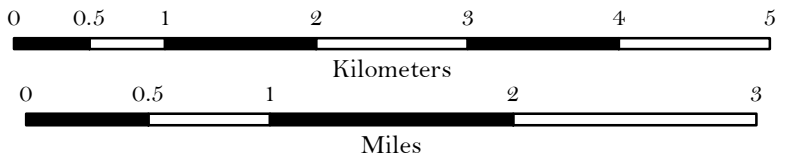


LAND SUITABILITY MAP ARABICA COFFEE

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

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OTHER SIGNS

- NGP Areas
- Coffee
- Land limitation
- Land use

CONVENTIONAL SIGNS

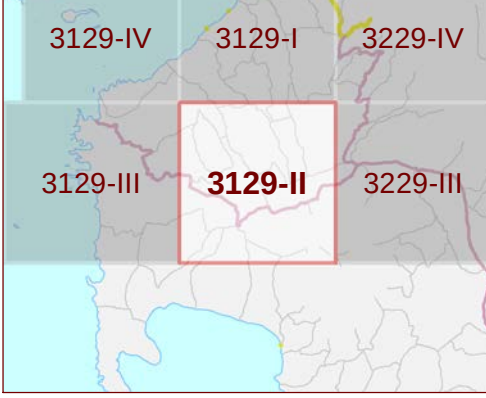
ROADS	BOUNDARY	HYDROLOGY
Expressway	Region	Sea / Shoreline
Trunk line	Province	Lakes / Rivers
Primary	District	
Secondary	Municipality	PLACES
Tertiary	Barangay	Capital City / City
		Capital Town / Town

LAND USE

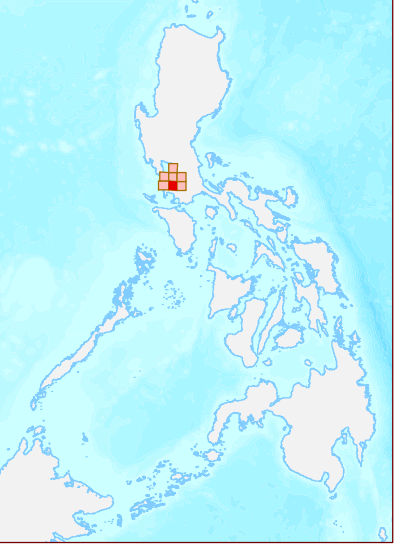
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

3129-II



INDEX MAP



MISCELLANEOUS INFORMATION

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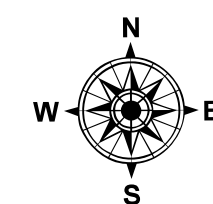
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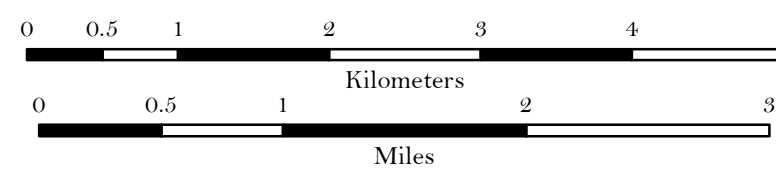
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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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

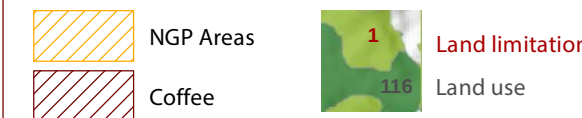
LEGEND

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



CONVENTIONAL SIGNS

ROADS

- 

BOUNDARY

- Reg
Pro

HYDROLOGY

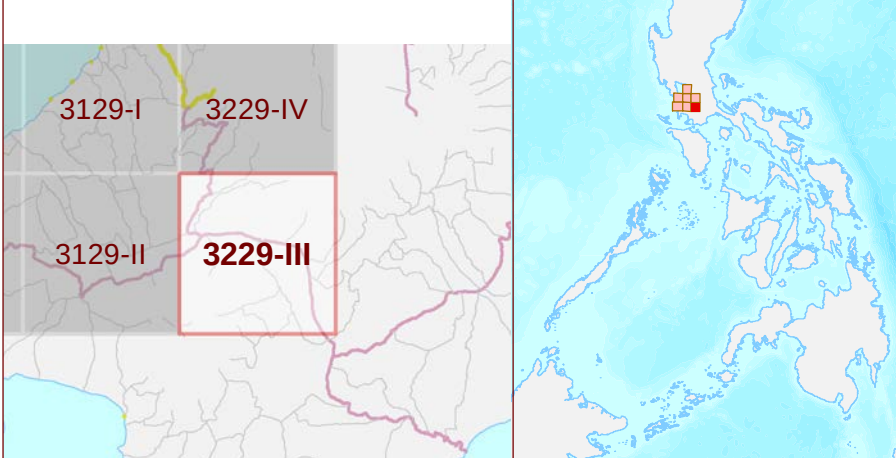
-  Sea / Shoreline
 Lakes / Rivers
PLACES
 ★ Capital City / City
 ● Capital Town / Town

LAND USE

- Legend: Built-up Fishpond Mangrove

ADJOINING SHEETS

3229-III



MISCELLANEOUS INFORMATION

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