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

# **GENERAL SANTOS CITY**





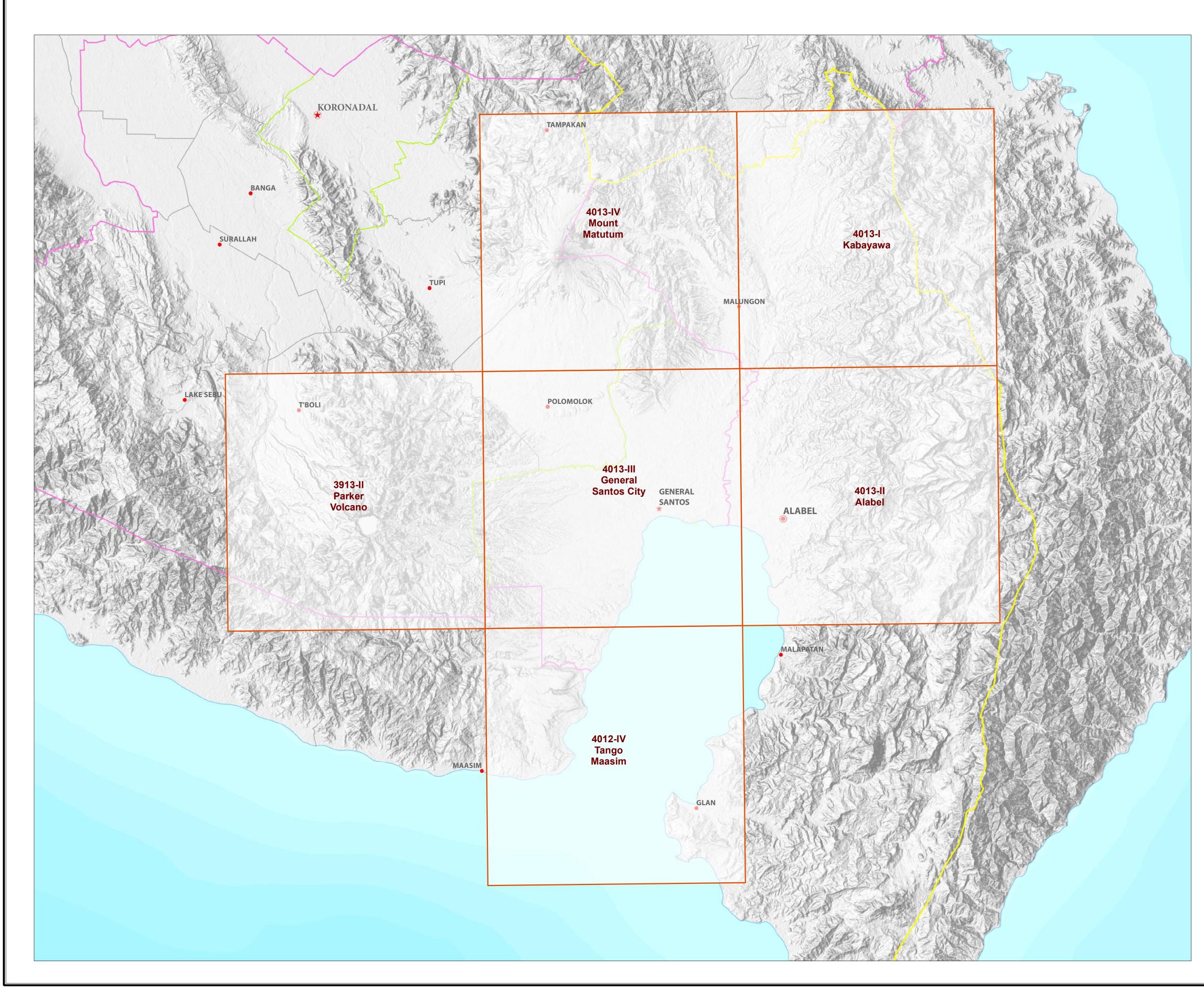
# LAND SUITABILITY MAP

# **ARABICA COFFEE**



REPUBLIC OF THE PHILIPPINES 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

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



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## LAND SUITABILITY MAP FOR **ARABICA COFFEE**

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **GENERAL SANTOS CITY, REGION XII**

## **EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY**

						EX	PANSION	AREA (Ha	)			CONFLIC	T RESOLU	<b>JTION ARI</b>	EA (Ha)		TOTAL
MUNICIPALITY	EXISTIN	G ARABIC	CA (Ha)	TOTAL EXISTING AREA (Ha)	Coc	onut	Shrut unmar	-	Grass unmar	sland, naged*	Co	orn	Pinea	apple	Other	crops	POTENTIAL EXPANSION
	<b>S1</b>	<b>S</b> 2	<b>S</b> 3		<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	<b>S</b> 2	AREA (Ha)
GENERAL SANTOS CITY	-	-	-	-	-	-	-	17	-	414	-	-	-	-	-	-	431
					-	-	-	_	-	· _	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	17	-	414	-	-	-	-	-	-	431

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

## **AGRONOMIC REOUIREMENT 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)	CLIMATIO TYPE
	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
Coffee ( Arabica )	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 (%)			SOIL DRAINA	AGE		SOIL REACTIO	N (pH)		SOIL TEXT	URE			
3 - 8       - gen         3 - 18       - uno         18 - 30       - roll         30 - 50       - stee         50       - ven         50       - ven         50       - ven         50       - ven         50       - stee         50       - ven         50       - stee         50       - ven         50       - stee         50       - stee	ry steep	lulating	WD       - w         MWD       - m         SPD       - s         PD       - p         VPD       - w         SURFACE IM         ROCK OUTCR         < 10%			4.5 - 5.0       - ver         5.1 - 5.5       - str         5.6 - 6.0       - me         6.1 - 6.5       - slig         6.6 - 7.2       - neu         7.3 - 7.8       - mil         7.9 - 8.4       - mod	remely acid ry strongly acid ongly acid edium acid ghtly acid utral Idly alkaline oderately alkaline ongly alkaline		LS CSL SL <b>Medium</b> FSL L SiL CL SiCL	<ul> <li>sand</li> <li>loamy sand</li> <li>coarse sandy loam</li> <li>sandy loam</li> <li>fine sandy loam</li> <li>loam</li> <li>silt loam</li> <li>clay loam</li> <li>silty clay loam</li> <li>sandy clay loam</li> </ul>		SiC - s C - c	sandy clay silty clay clay neavy clay
<b>LEVATION</b> 12 - 500 - 10 13 - < 500m LOPE/TOPOG	000m or 2000 - 250 or > 2500m	00m	SOIL DRAIN D2 - Some D3 - Very SOIL TEXTU	ewhat poorly drained poorly drained or ex	l to poorly draine	d Si Si R	OIL DEPTH h2 - Shallow to h3 - Very shallo ROCK OUTCROPS c2 - Common		(30 - 100cm)	E3 - Severe e	te erosion	inσ	

CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	El2-Rc2	11	T2-El3	21	T3-El3-E3
2	El2-Sh2-Rc2	12	T2-El3-E2-Sh2-Rc2	22	T3-El3-E3-Sh3-Rc2
3	El3	13	T2-El3-E3	23	T3-El3-E3-Sh3-Rc3
4	El3-F2-D2	14	T2-El3-E3-Sh2-Rc2	24	T3-El2-E3-Sh3-Rc3
5	El3-F3-D2	15	T2-El3-E3-Sh2-Rc3	25	T3-El3-E3
6	El3-Sh2-Rc2	16	T2-El3-F2-D2	26	T3-El3-E3-Sh3-Rc3
7	El3-Tc	17	T2-El3-F3-D2	27	T3-El3
8	T2-El2	18	T3-El2		
9	T2-El2-E3-Sh2-Rc2	19	T3-El2-E3-Sh3-Rc2		
10	T2-El2-Sh2-Rc2	20	T3-El3		

LODE	LANDUSE
4	Corn
51	Cassava
84	Pineapple
85	Mango
116	Coconut
126	Grassland
134	Shrubs, 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.

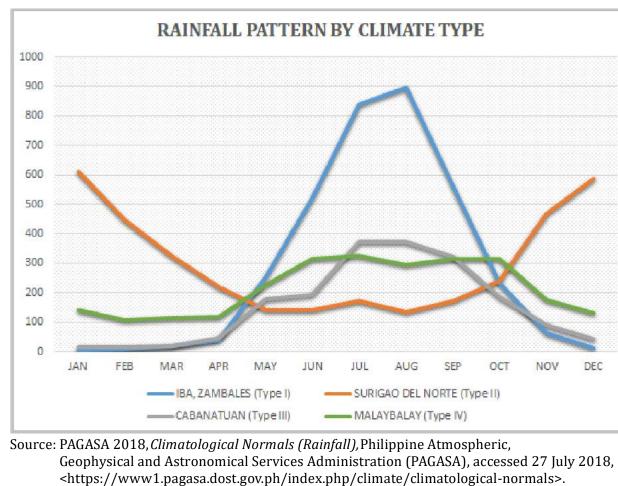
## Moderately Suitable (S2)

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.

## **CLIMATE TYPE**

- **TYPE I** : Two pronouced season, dry from November to April and **TYPE II** : No dry season with a very pronounced maximum rain wet during the rest of the year. Maximum rain period is from June to September
- **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.

General Santos City is classified as climatic Type IV.



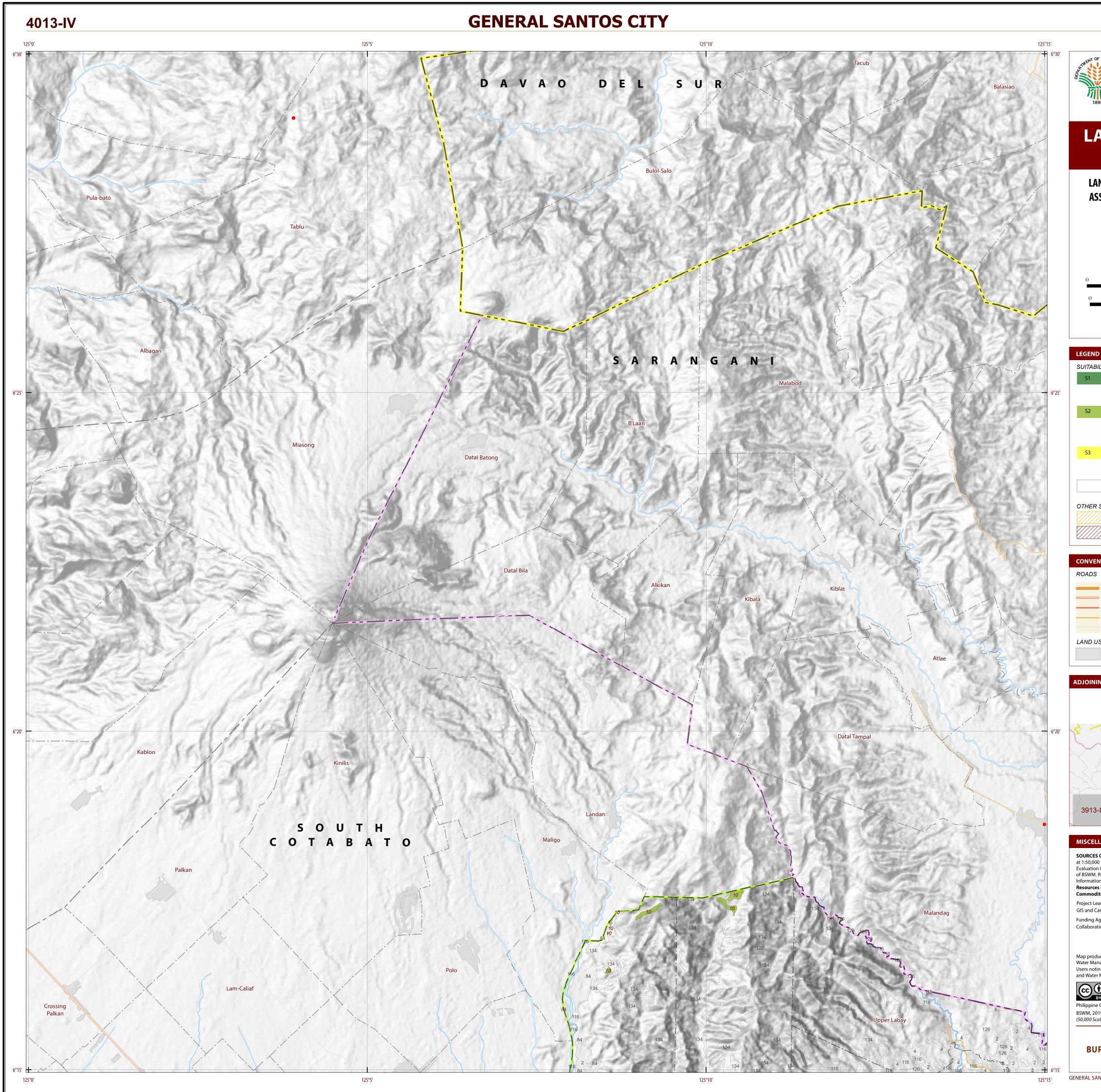


Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

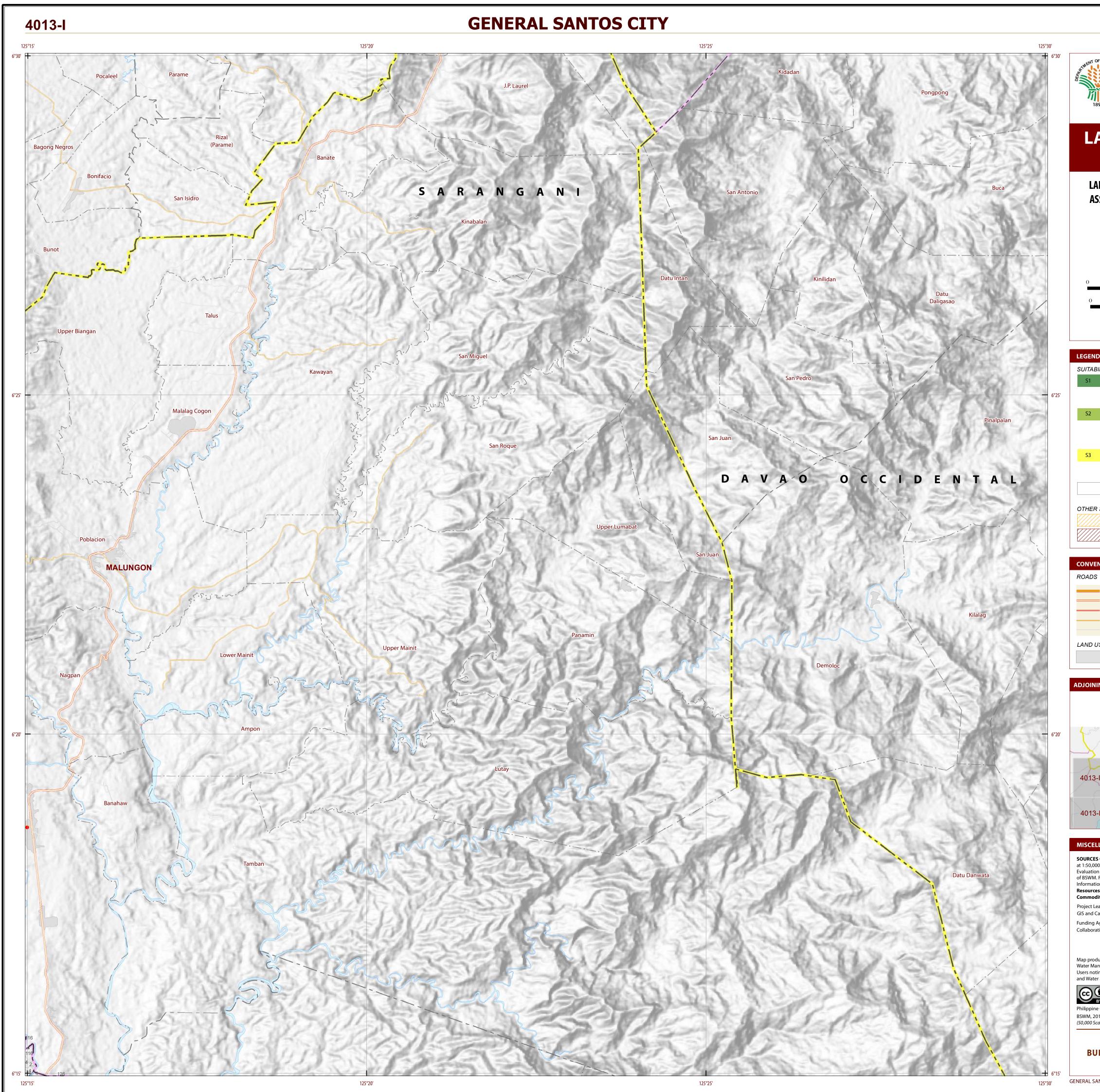
Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater than 18% slope, irrigated paddy rice and miscellaneous land types such as built up areas, roads, etc are considered as not relevant.

- period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
- **TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

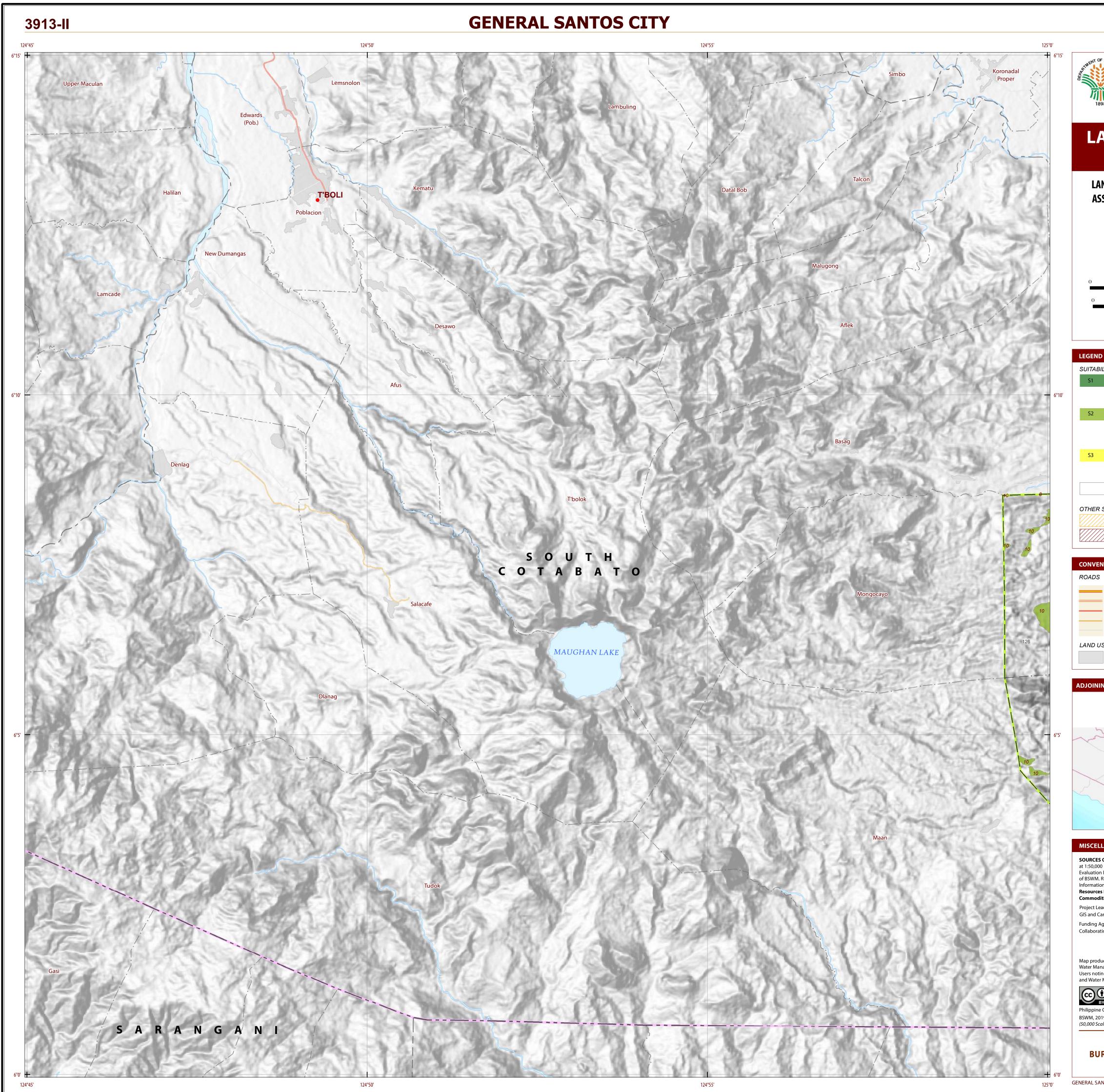




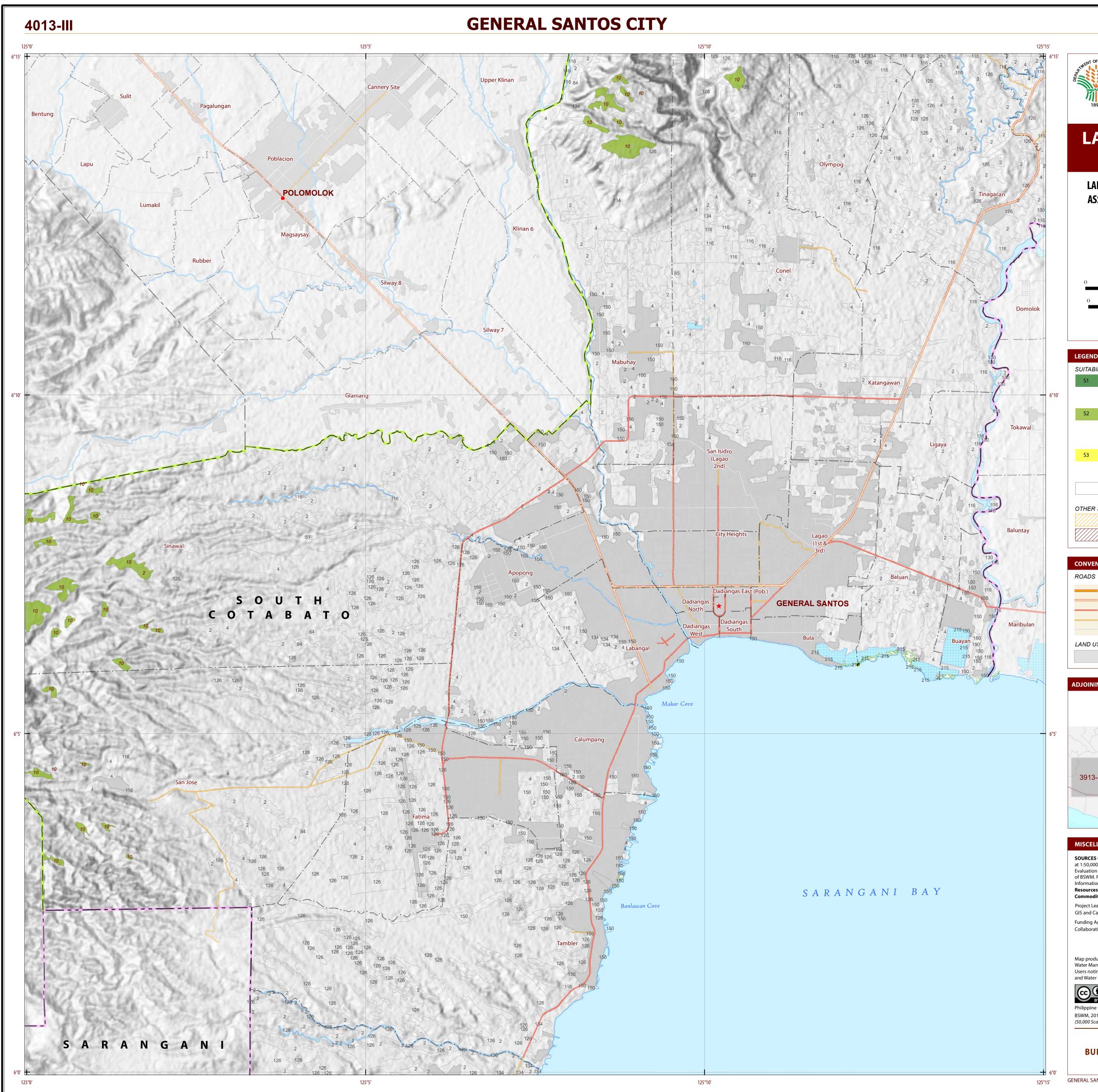
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R SIGNS NGP Areas Cacao	Land limitation	1	
INTIONAL SIGNS			
BOUNDAF	Region Province District F Municipality G Barangay	HYDROLOGY         Sea / Shi         Lakes / F         LACES         Capital City         Capital Tov	Rivers y / City
Built-up Fis	hpond	Mangrove	
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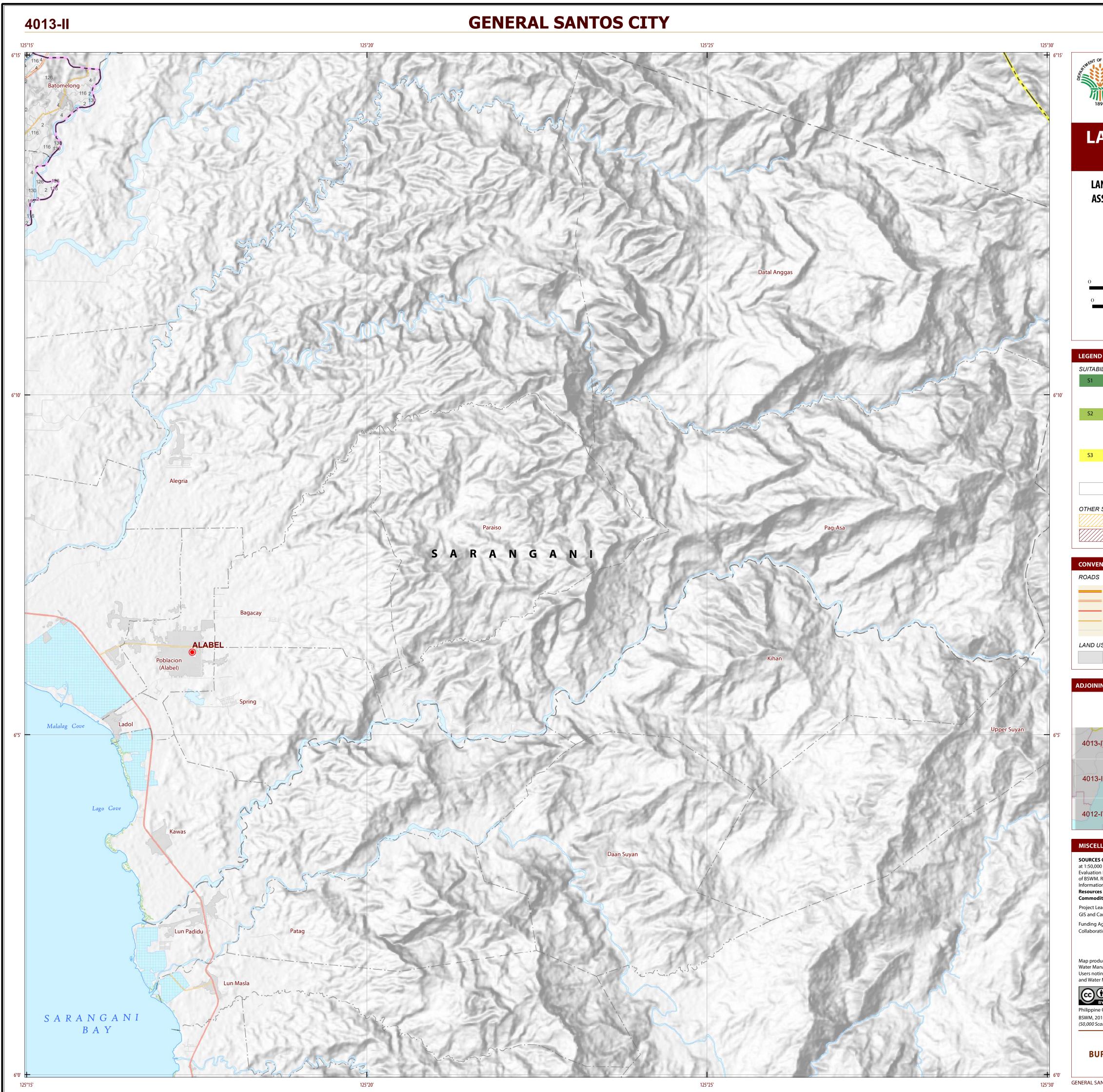
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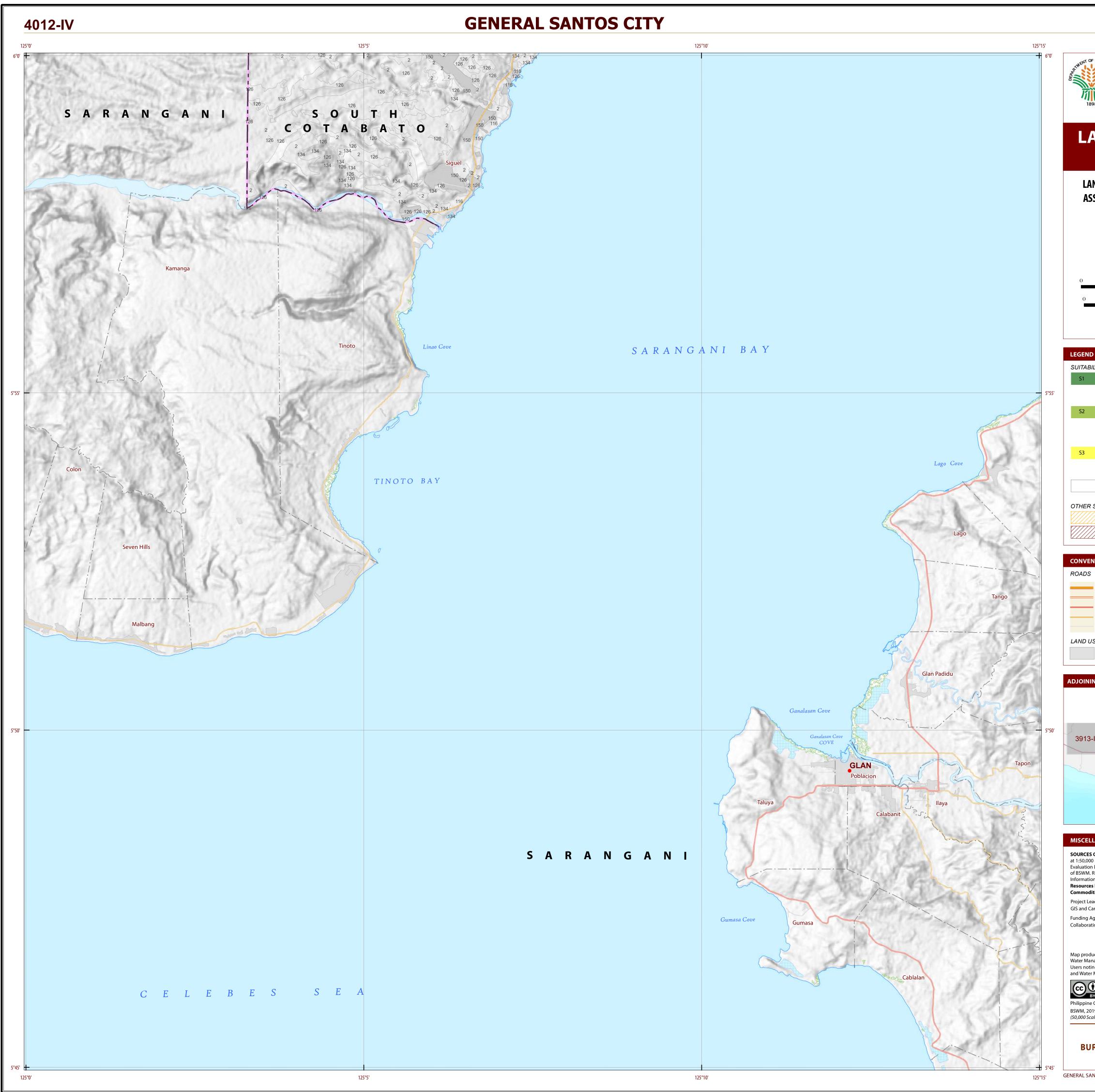
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BOUNDARY HYDROLOGY   Expressway Region   Trunk line Province   Primary District   Secondary Municipality   Tertiary Barangay   Image: Secondary Fishpond
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DISCLAIMER : All political boundaries are not authoritative.
<ul> <li>BILITY CLASSES</li> <li>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.</li> <li>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.</li> <li>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</li> </ul>
only marginally justified.   Not Suitable/ Not Relevant   SIGNS   NGP Areas   Cacao   Land limitation Land use
BOUNDARY       HYDROLOGY         Expressway       Region         Trunk line       Province         Primary       District         Secondary       Municipality         Tertiary       Starangay         Built-up       Fishpond
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LANEOUS INFORMATION S OF INFORMATION : Topographic information taken from NAMRIA Topographic Map 10 scale. Land resources information from the Agricultural Land Management and n Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice on System (PRISM) (IRRI, 2015). Data analysis and compilation through the Land es Evaluation and Suitability Assessment of Strategic Production Areas for Major lities Project implemented by BSWM (2017). eader : BERNARDO B. PASCUA Cartography : IRVIN K. SAMALCA
Agency       : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)         Iting Agencies       : Philippine Council on Agriculture and Fisheries (PCAF)         : Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga)         : Local Government Unit (LGU) of covered provinces and municipalities         Huced by the Geomatics and Soil Information Technology Division, Bureau of Soils and
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