

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

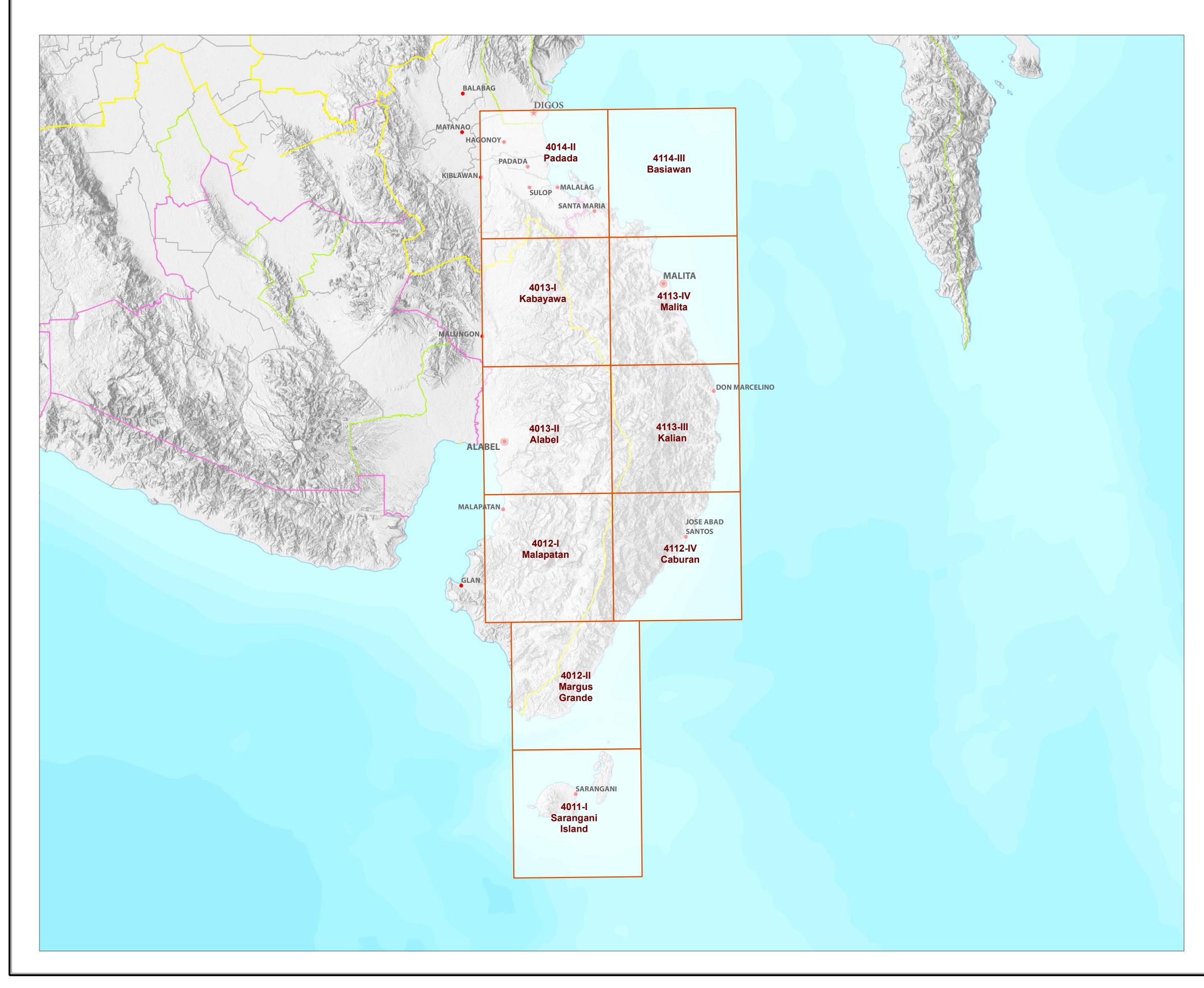
# **PROVINCE OF DAVAO OCCIDENTAL**



# LAND SUITABILITY MAP

# **NATURAL RUBBER**

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



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Diliman, Quezon City 1101 Philippines Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@yahoo.com

## LAND SUITABILITY MAP FOR **RUBBER**

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

## **EXTENT OF SUITABILITY FOR RUBBER PRODUCTION BY MUNICIPALITY**

						EX	EXPANSION AREA (Ha) CONFL			CONFLIC	LICT RESOLUTION AREA (Ha)				TOTAL		
MUNICIPALITY	EXISTI	NG RUBB	ER (Ha)	TOTAL EXISTING AREA (Ha)	Сосо	nut	Shrub unmar		Grass unman		Bana	ana	Со	rn	Other	crops	POTENTIAL EXPANSION AREA (Ha)
	<b>S1</b>	S2	<b>S</b> 3		<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S</b> 2	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	AKLA (IIa)
DON MARCELINO	-	-	-	-	27	1,423	-	-	4	118	-	80	-	-	-	-	1,653
JOSE ABAD SANTOS	-	-	-	-	192	2,814	-	5	44	676	-	1	1	20	-	1	3,754
MALITA	-	-	-	-	589	5,509	1	47	19	872	11	479	-	80	6	147	7,760
SANTA MARIA	-	-		-	3,474	1,653	-	-	23	345	-	-	-	-	16	1	5,512
SARANGANI	-	-	-	-	112	2,199	-	-	-	-	-	-	-	-	-	-	2,311
TOTAL	-	-	-	-	4,394	13,598	1	52	90	2,011	11	561	1	100	21	149	20,989

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

## AGRONOMIC REQUIREMENT OF RUBBER PRODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOOD ING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
	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
Rubber Tree	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	
3 - 8       - gen $8 - 18$ - und $18 - 30$ - roll $30 - 50$ - stee         > 50       - very         SOIL DEPTH (cr. $0 - 30$ - very $30 - 50$ - shall $50 - 100$ - mode	y steep <b>m)</b> y shallow	ulating	WD       - we         MWD       - mo         SPD       - so         PD       - po         VPD       - ve         SURFACE IMP         ROCK OUTCRO         < 10%       - no	cessively drained ell drained oderately well dra mewhat poorly dr orly drained ry poorly drained <b>EDIMENT</b> PS one - few mmon	rained	4.5 - 5.0       -1         5.1 - 5.5       -3         5.6 - 6.0       -1         6.1 - 6.5       -3         6.6 - 7.2       -1         7.3 - 7.8       -1         7.9 - 8.4       -1	<b>TON (pH)</b> extremely acid very strongly acid strongly acid medium acid slightly acid neutral mildly alkaline moderately alkaline strongly alkaline		LS CSL SL <b>Medium</b> FSL L SiL CL SiCL	<ul> <li>FURE</li> <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 - silt C - cla	dy clay y clay y vy clay
<b>ELEVATION</b> El2 - 500 - 100	<b>11TATION</b> 200m or 2000 - 250 or > 2500m	<b>S DESCRIP</b>	<b>SOIL DRAINA</b> D2 - Somew	GE what poorly drain	ATIONS ed to poorly draine excessively drained			moderately deep ow (< 30cm)	o (30 - 100cm)	<b>SOIL EROSION</b> E2 - Moderat E3 - Severe e			

**SLOPE/TOPOGRAPHY** 

SOIL TEXTURE

Tc - Coarse texture

	Undulating to modera Steep to very steep	ately steep	D Tc	- Coarse	texture		Re	c2 - Co c3 - Ma	mmon any
CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	El2	11	T2-E3-Sh2-Rc2	21	T2-F2-D2	31	T3-El2-E3-Sh3-Rc2	41	T3-El2
2	El2-Sh2-Rc2	12	T2-E3-Sh2-Rc3	22	T2-F3-D2	32	T3-El2-E3-Sh3-Rc3	42	T3-El2-E3
3	F2-D2	13	T2-El2	23	Т3	33	T3-El3-E3-Sh2-Rc3	43	T3-El2-E3-Sh3-Rc3
4	F2-Tc	14	T2-El2-E3	24	ТЗ-ЕЗ	34	T3-El3-E3-Sh3-Rc2	44	T3-El3-E3-Sh3-Rc3
5	F3-D2	15	T2-El2-E3-Rc3	25	T3-E3-Rc2	35	T3-F2-D2	45	T3-El3
6	Sh2	16	T2-El2-E3-Sh2-Rc2	26	T3-E3-Sh3-Rc2	36	T3-F3-D2	46	Тс
7	T2	17	T2-El2-E3-Sh2-Rc3	27	T3-E3-Sh3-Rc3	37	Т3		
8	T2-E2-Sh2-Rc2	18	T2-El2-Sh2-Rc2	28	T3-El2	38	Т3-Е3		
9	Т2-ЕЗ	19	T2-El3-E3-Rc3	29	T3-El2-E3	39	T3-E3-Rc3		
10	T2-E3-Rc2	20	T2-El3-E3-Sh2-Rc2	30	T3-El2-E3-Sh2-Rc3	40	T3-E3-Sh3-Rc3		

FLOODING

LANDUSE

CODE

4 Corn

85 Mango

89 Durian

91 Banana 107 Abaca 116 Coconut 126 Grassland

137 Rubber (T)

34 Diversified crops

134 Shrubs, unmanaged

F2 - Moderate seasonal flooding

F3 - Severe seasonal flooding

**ROCK OUTCROPS** Rc2 - Common

## **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.

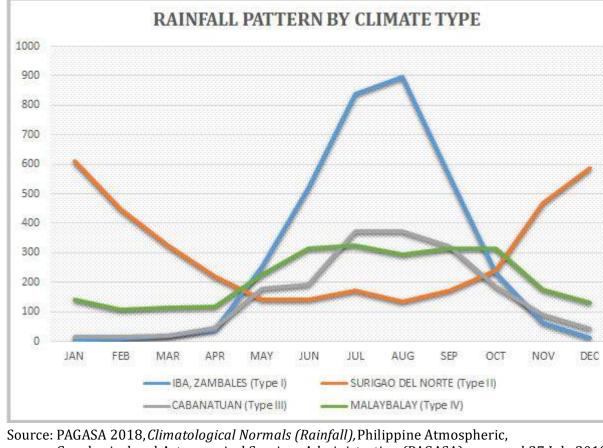
## Moderately Suitable (S2)

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.

CIIM	ATE	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 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.

Davao Occidental is classified as climatic Type IV.



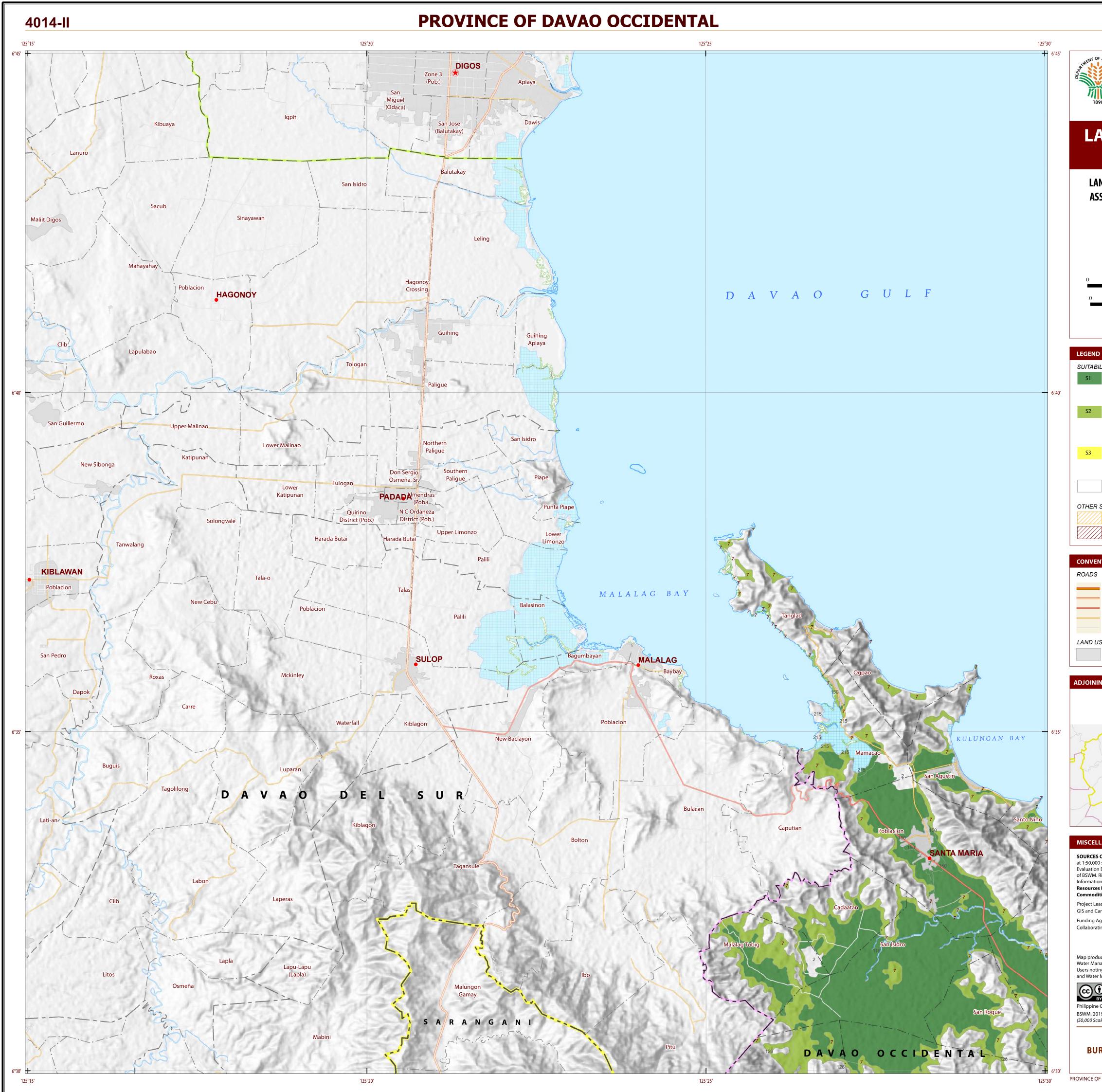
Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <a href="https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals">https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals</a>>.

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.

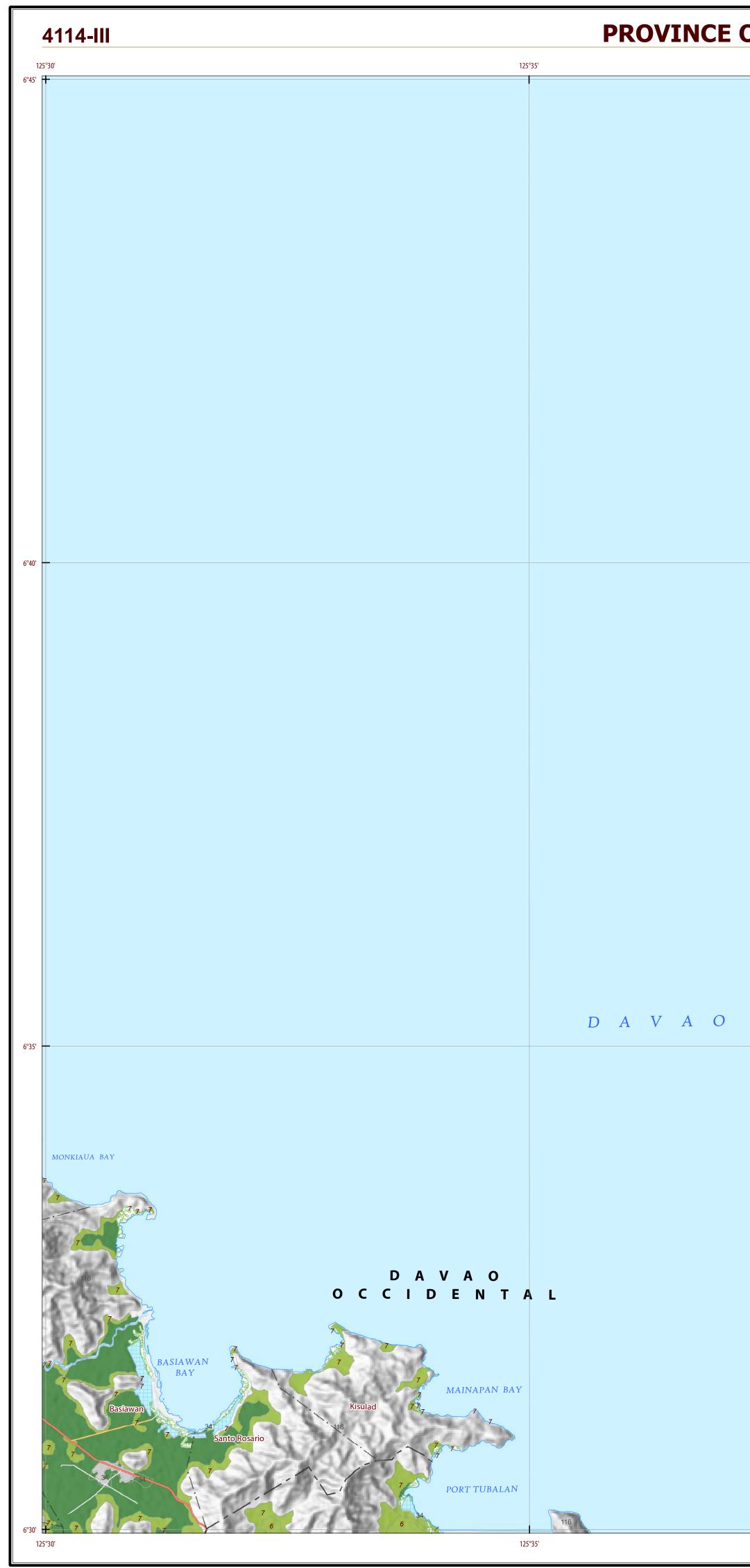
Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater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

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



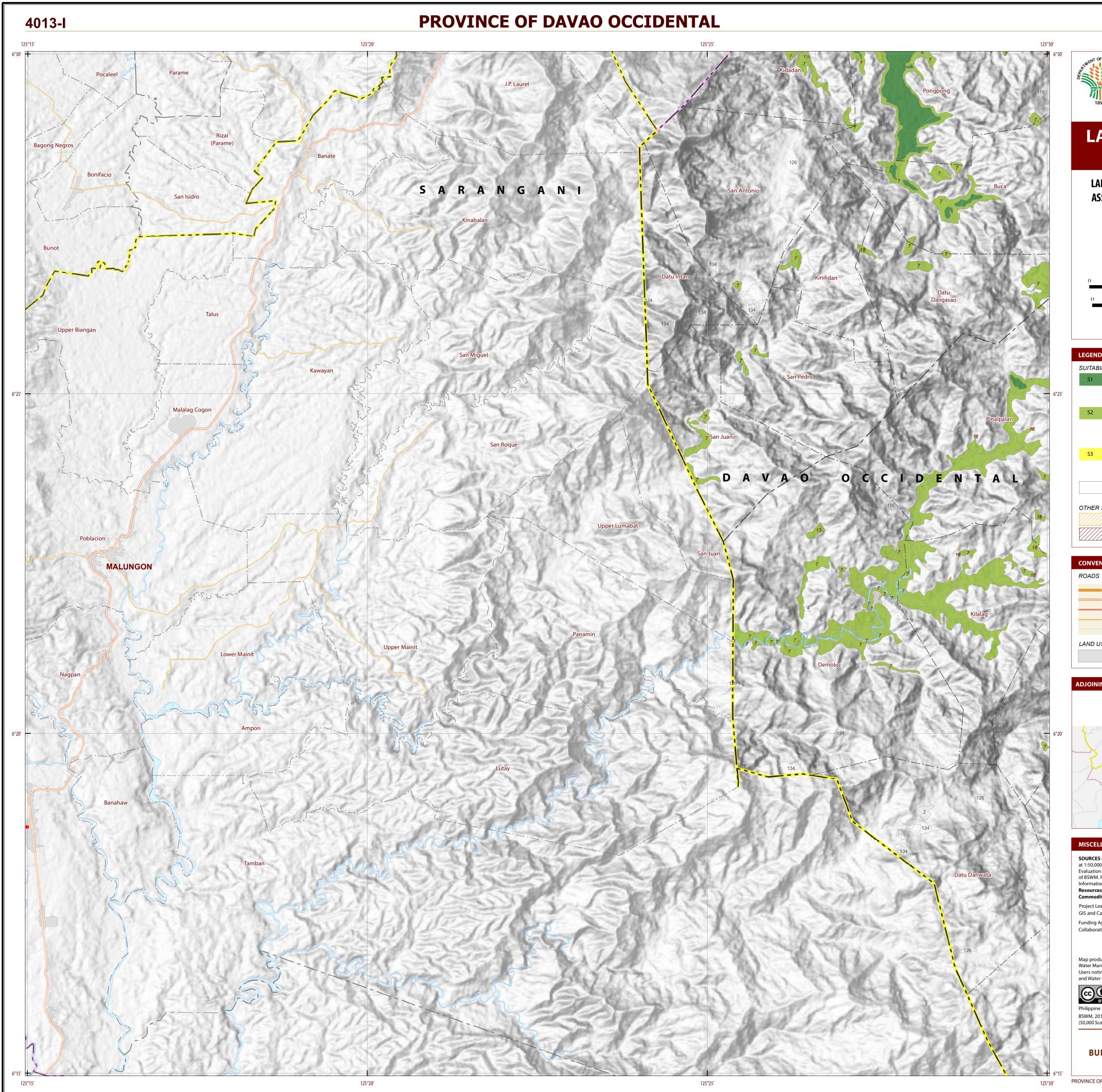


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BILITY CLASSES Highly Suitable - Land having no significant limi application of a given use, or only minor limitatio cantly reduce productivity or benefits and will no an acceptable level.	ns that will not signifi-
Moderately Suitable - Land having limitations w moderately severe for sustained application of a will reduce productivity or benefits and increase extent that the overall advantage to be gained fr attractive, will be appreciably inferior to that exp	given use; the limitations required inputs to the om the use, although still
Marginally Suitable - Land having limitations we severe for sustained application of a given use an tivity or benefits, or increase required inputs, that only marginally justified.	d will so reduce produc-
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Tertiary — • — Barangay () • ISE Built-up Fishpond	Capital Town / Town Mangrove
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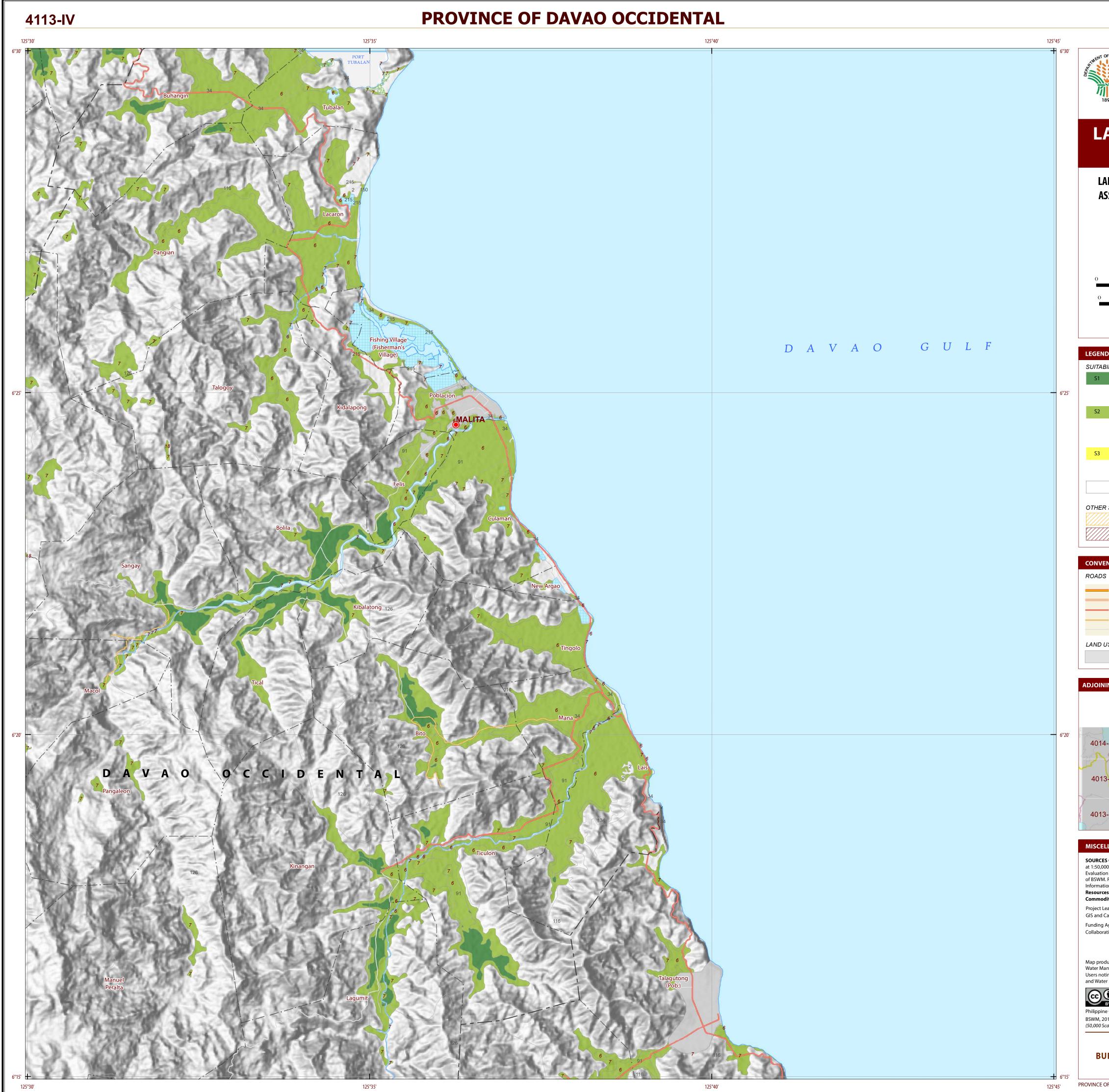
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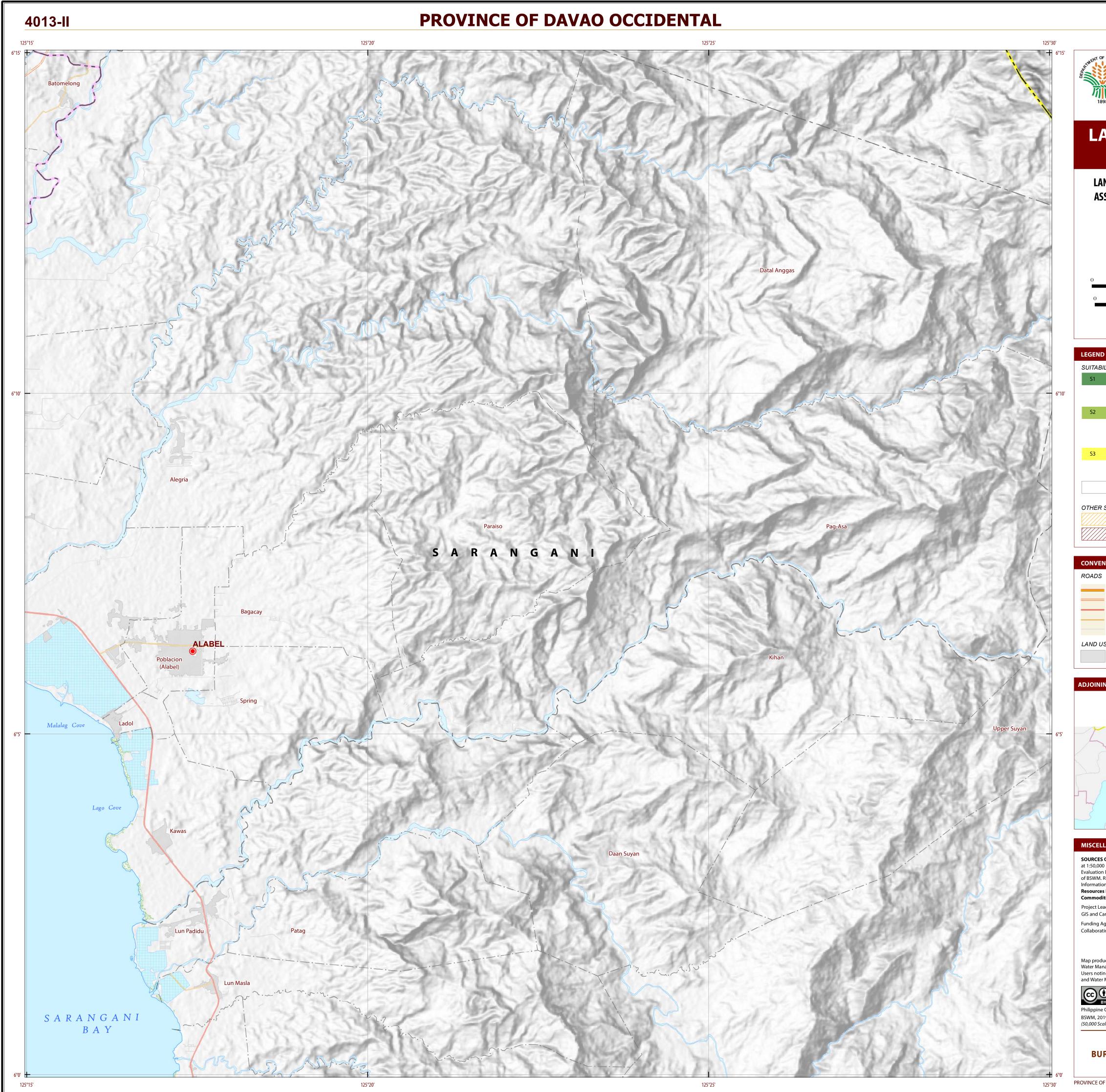
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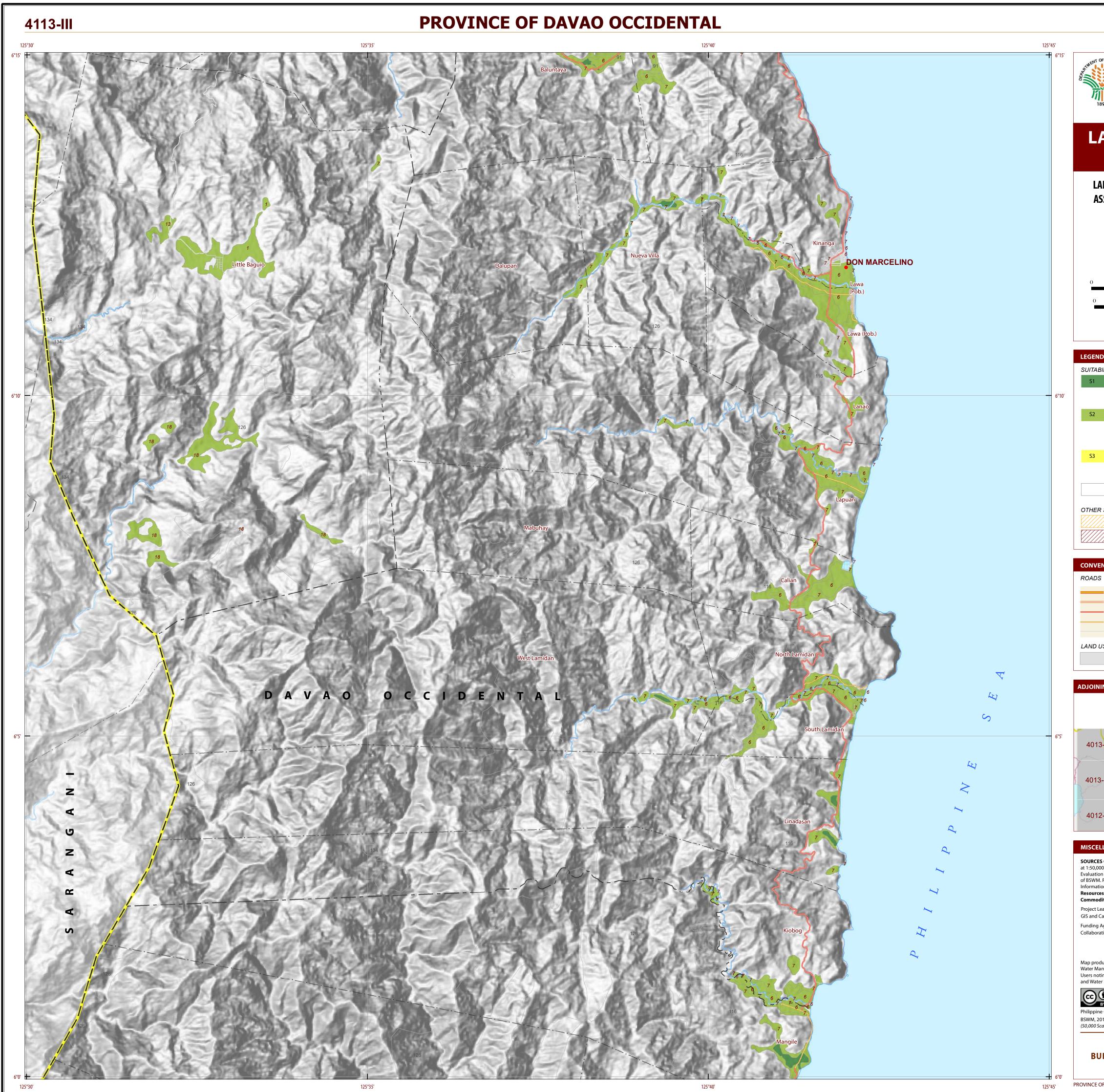
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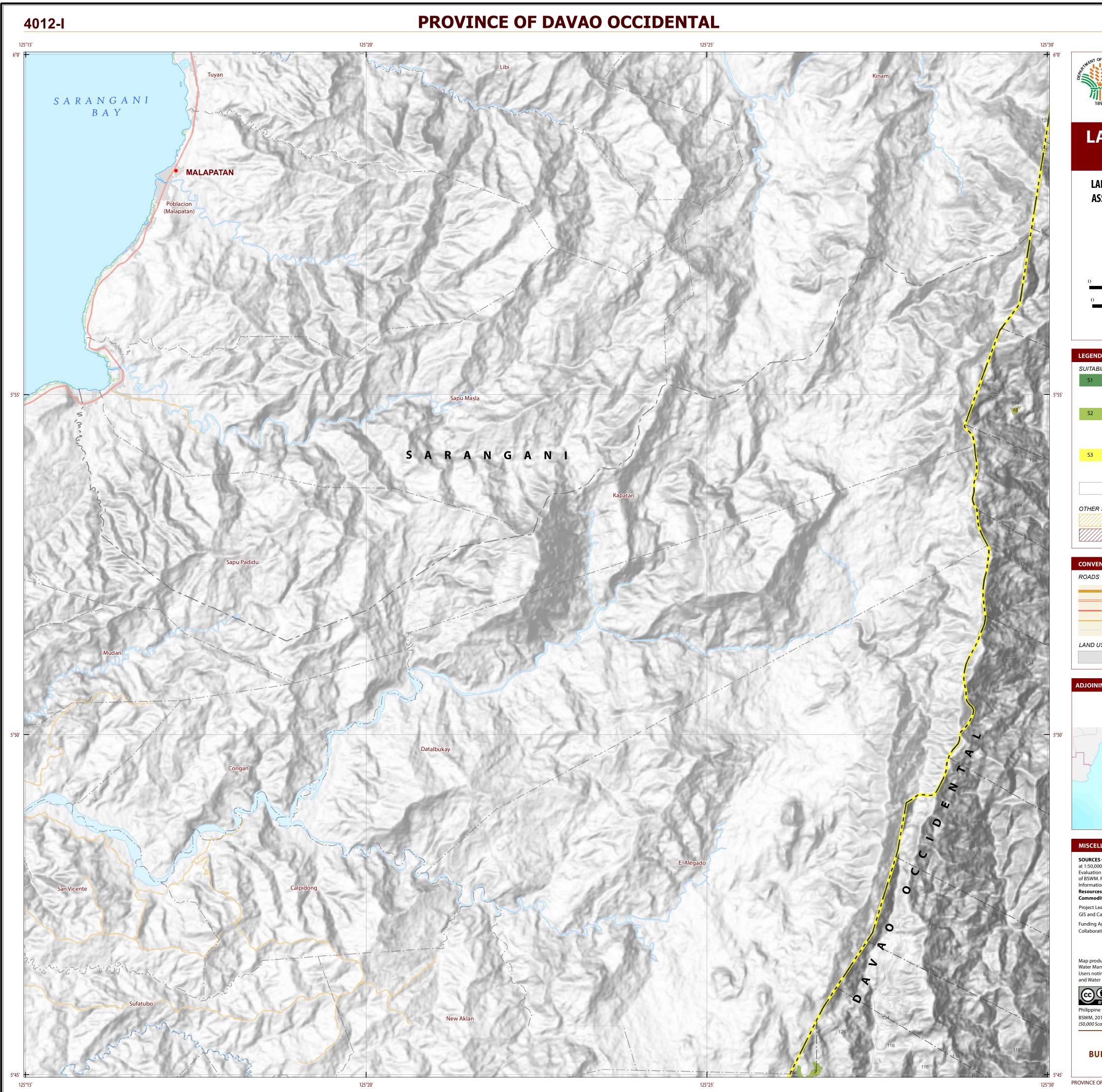
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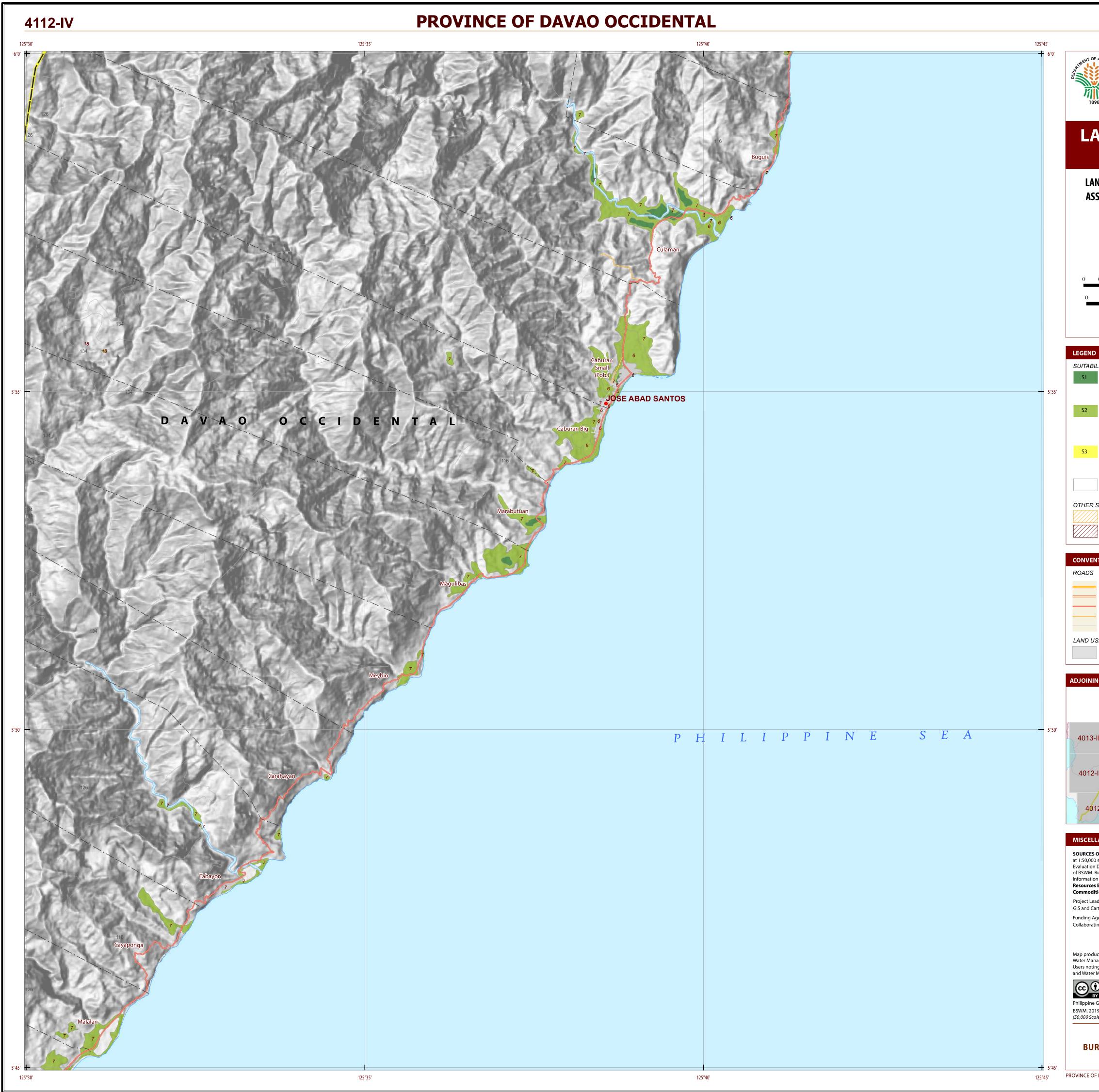
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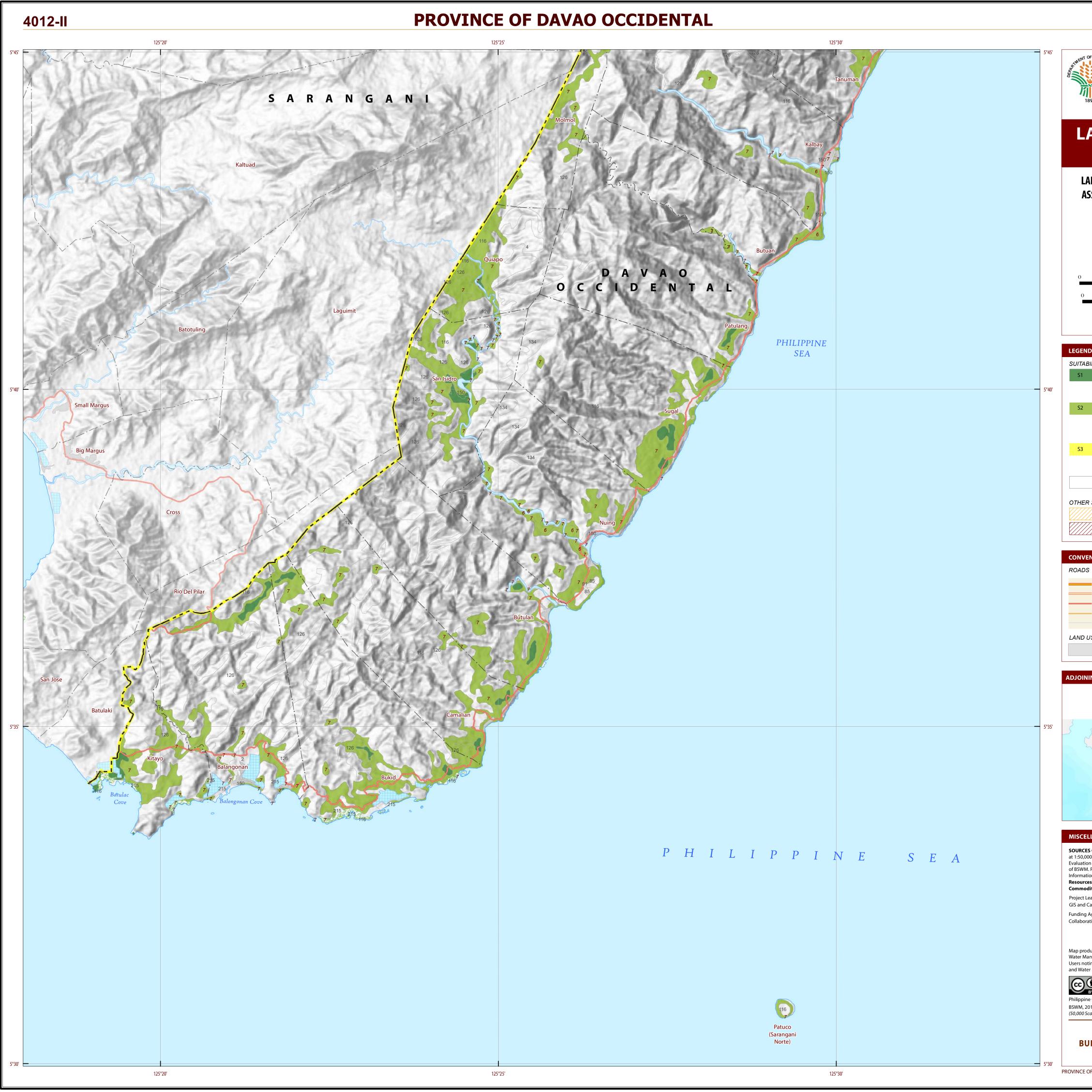
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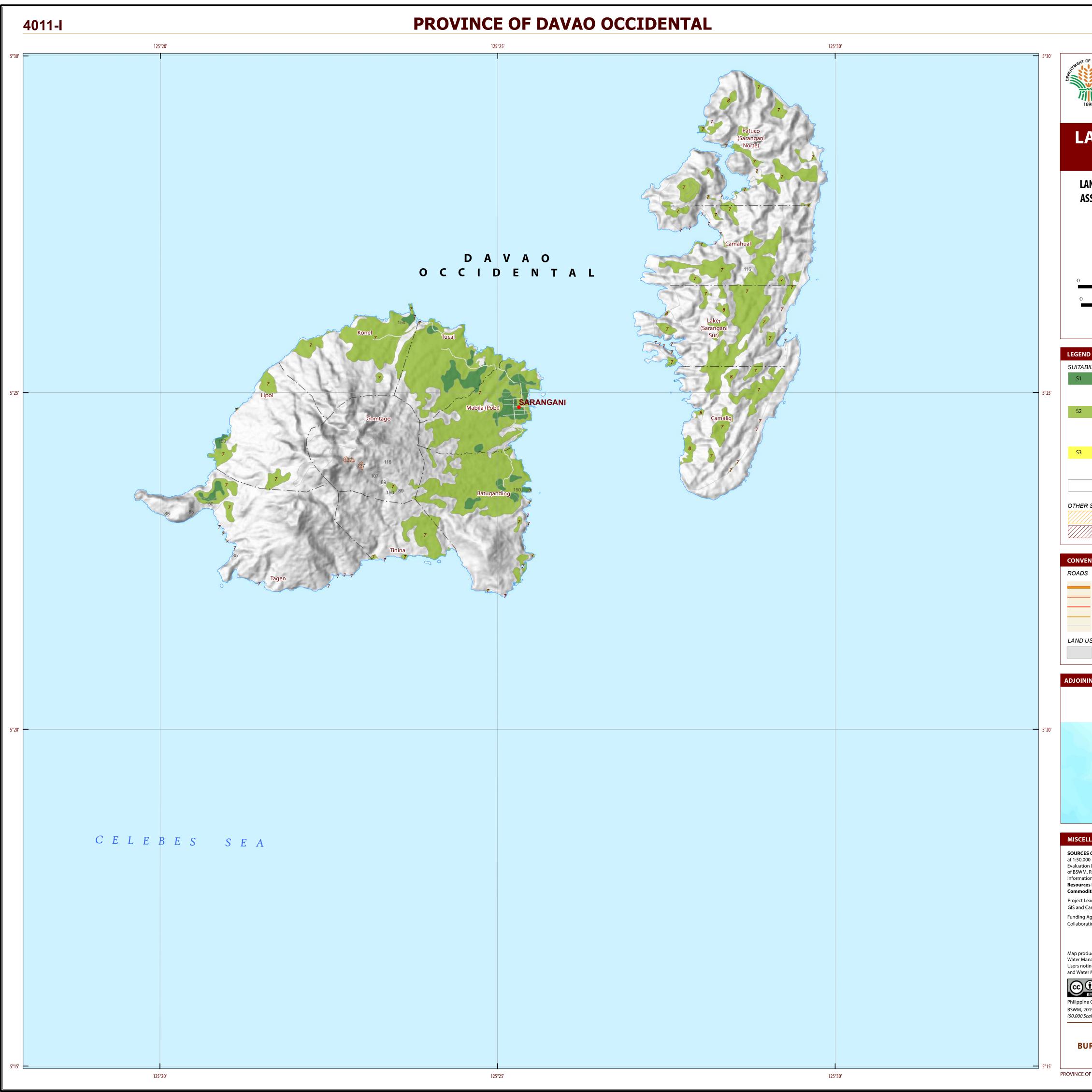
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