

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

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LAND SUITABILITY MAP

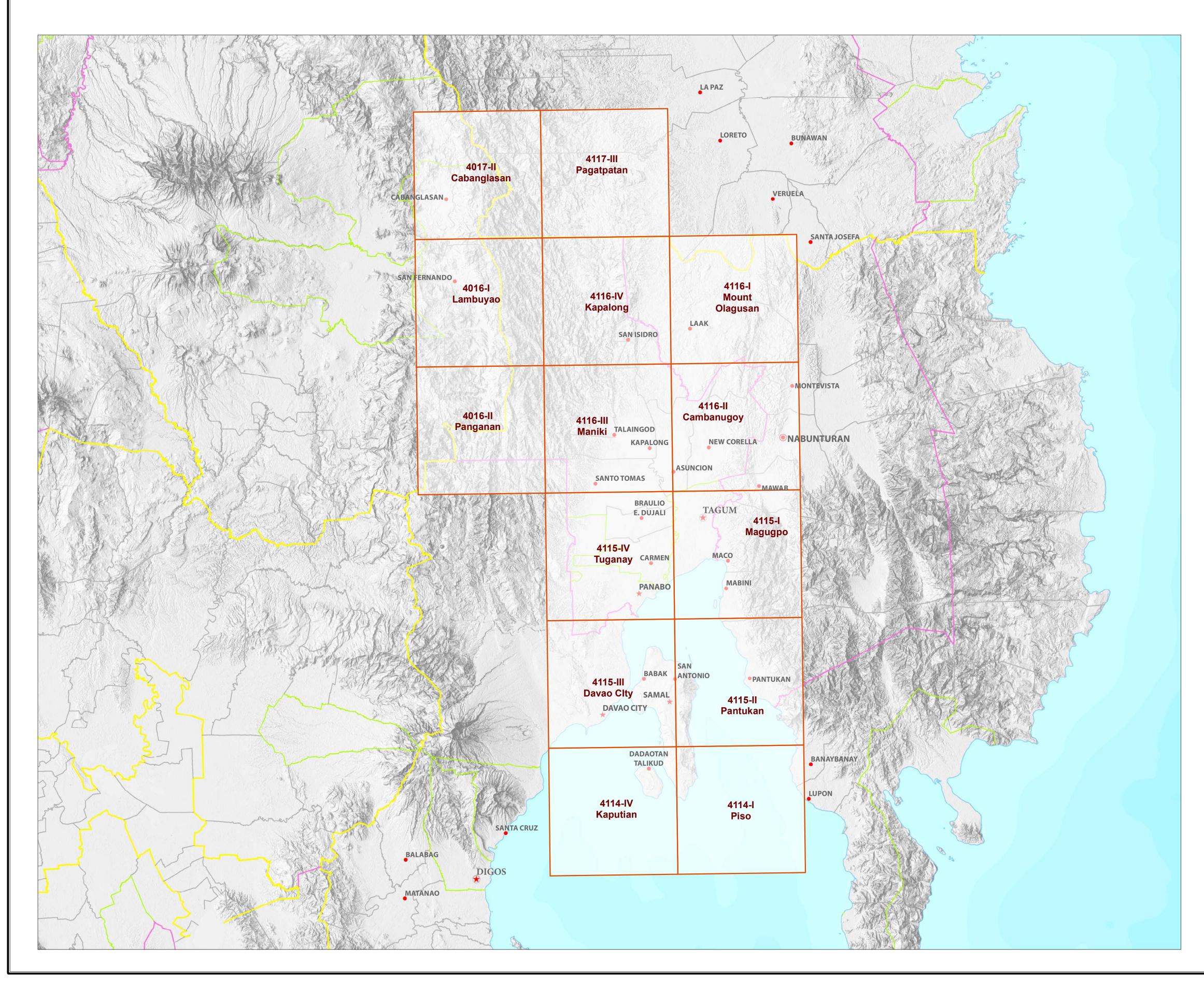
ARABICA COFFEE

PROVINCE OF DAVAO DEL NORTE



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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF DAVAO DEL NORTE



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LAND SUITABILITY MAP FOR **ARABICA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS DAVAO DEL NORTE, REGION XI

EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY

		-				EXI	PANSION	AREA (H	la)			(CONFLICT	AREA (H	a)		TOTAL
MUNICIPALITY	EXISTI	NG COFFI	EE (Ha)	TOTAL EXISTING AREA (Ha)	Coc	onut	Shrub unmana	•		sland, naged*	Co	rn		y rice, rigated	Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Па)
ASUNCION	-	-	-	-	-	4	-	-	-	-	-		-	-	_	-	4
BRAULIO E. DUJALI	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
CARMEN	-	-	-	-	-	-	-	-	-	-	-		-	-	_	-	-
CITY OF PANABO	-	-	-	-	-	-	-	-	-	-	-		-	-	_	-	-
CITY OF TAGUM	-	70	35	105	-	-	-	-	-	-	-		-	-	-	-	-
ISLAND GARDEN CITY OF SAMAL	-	-	-	-	-	-	-	-	-	-	-		-	-	_	-	-
KAPALONG	-	-	-	-	-	-	-	6	-	6	-		-	-	-	-	12
NEW CORELLA	-	-	-	-	-	-	-	-	-	-	-		-	-	_	-	-
SAN ISIDRO	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
SANTO TOMAS	-	-	-	-	-	-	-	-	-	-	-		-	-	_	-	-
TALAINGOD	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
TOTAL	-	70	35	105	-	4	-	6	-	6	-		-	-	-	-	16

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

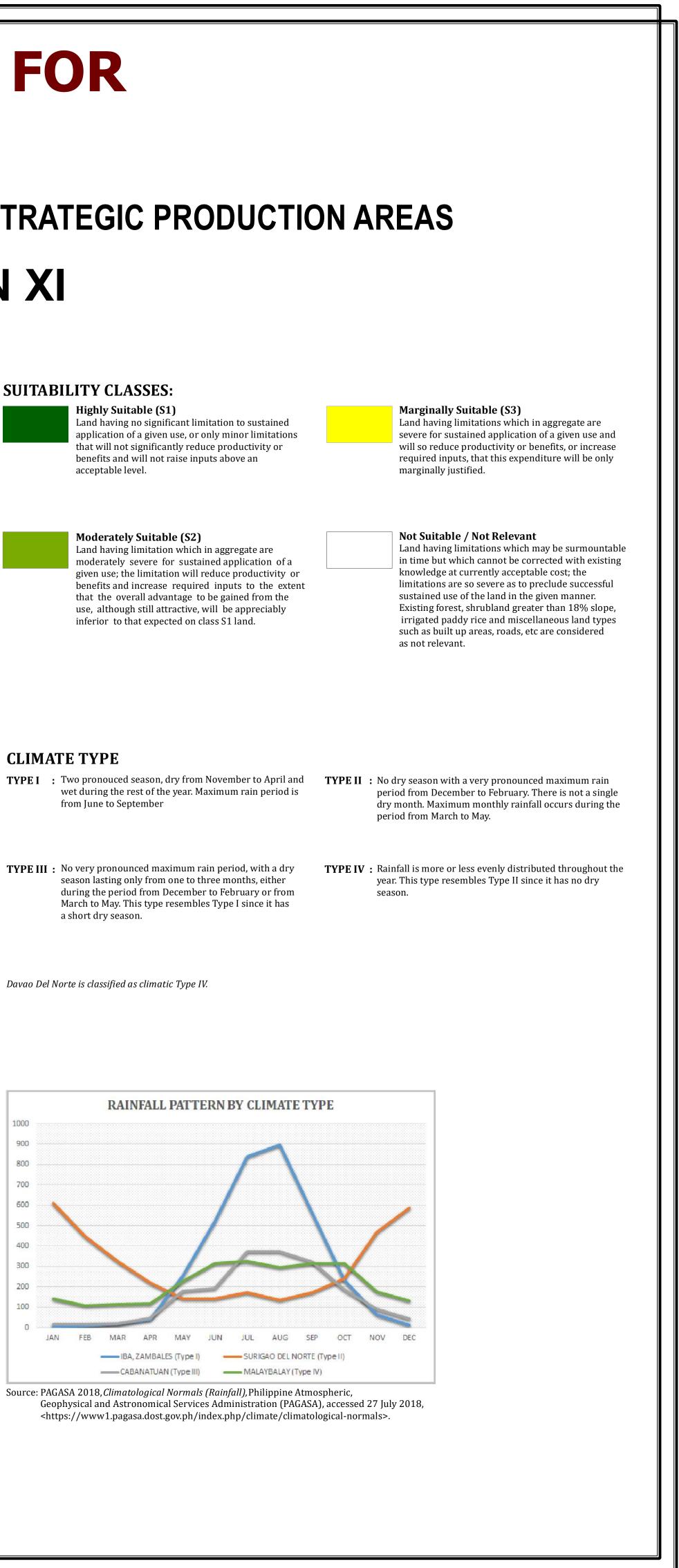
AGRONOMIC REQUIREMENT OF ARABICA COFFEE PRODUCTION

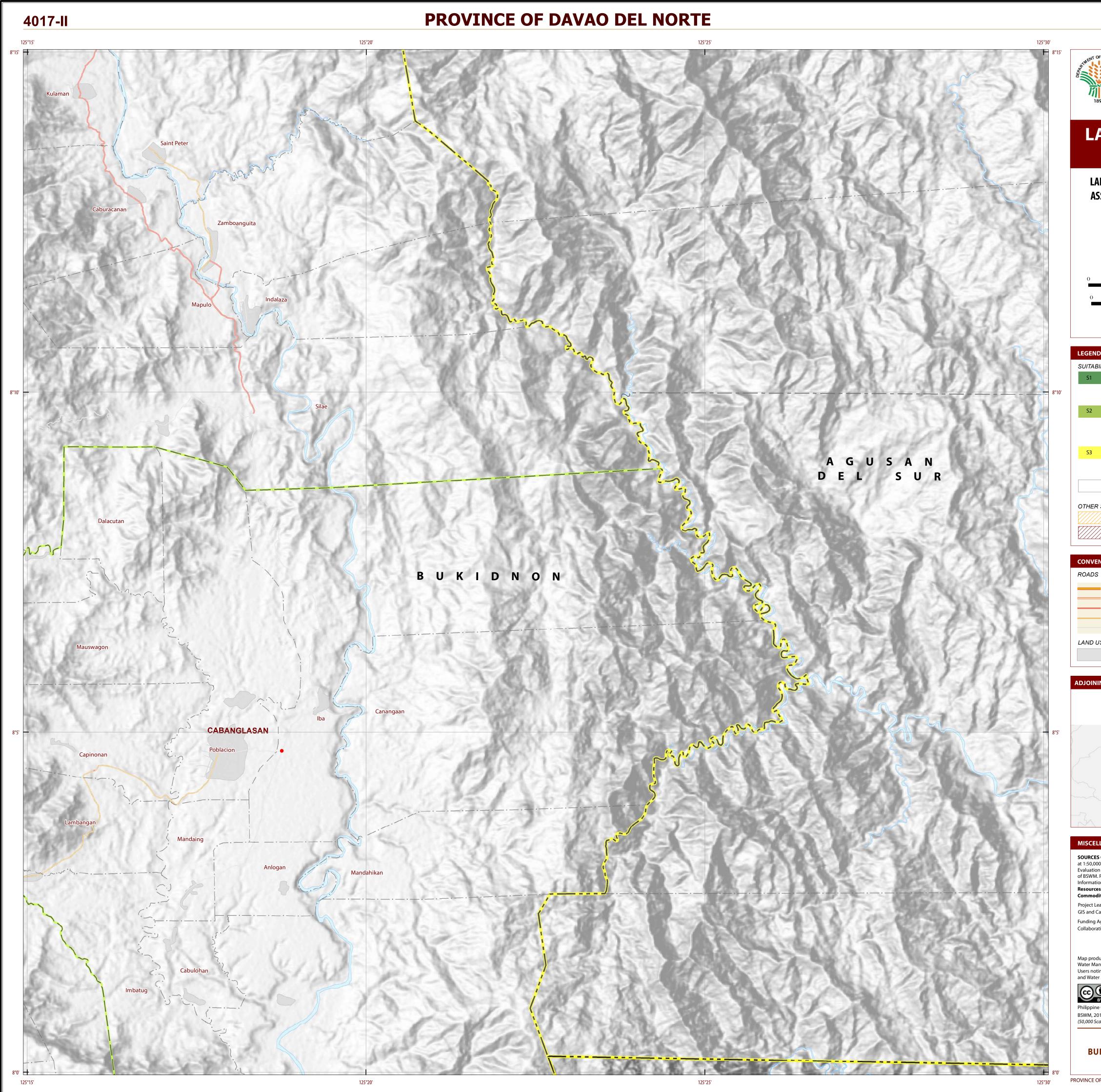
ТҮРЕ	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATI TYPE
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	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 DRAIN	AGE		SOIL REACTIO	N (pH)		SOIL TEXT	URE			
	el to gently slopin	-		excessively drained			remely acid		Coarse			Fine	
	ntly sloping to und			well drained			ry strongly acid			- sand			andy clay
	dulating to rolling			moderately well drain			ongly acid			- loamy sand			ilty clay
18 - 30 - rol 30 - 50 - ste	ling to moderatel	y steep		somewhat poorly drain poorly drained	nea		edium acid ghtly acid			 coarse sandy loam sandy loam 	l		lay leavy clay
	ry steep			very poorly drained		6.6 - 7.2 - net			Medium	- Sanuy Ioani		- I.	leavy clay
	y steep			very poorty aramea			ldly alkaline			- fine sandy loam			
SOIL DEPTH (o	cm)		SURFACE IM	IPEDIMENT			derately alkaline			- loam			
-	ry shallow		ROCK OUTCH				ongly alkaline			- silt loam			
	allow			none - few			0,			- clay loam			
	1 1 . 1		10 - 30% -	common					SiCL	- silty clay loam			
50 - 100 - mo	derately deep		10 3070										
> 100 - dea	ep to very deep	IS DESCRI	> 30% - :	many I D COMBINA	TIONS	S	OIL DEPTH		SCL	- sandy clay loam SOIL EROSION	ſ		
> 100 - dee LAND LIN ELEVATION El2 - 500 - 10	ep to very deep		> 30% - : PTION AN SOIL DRAIN D2 - Som	many I D COMBINA	to poorly draine	ed Sl	h2 - Shallow to	moderately deep ow (< 30cm)		- sandy clay loam SOIL EROSION	ate erosion		
> 100 - dee LAND LIN ELEVATION E12 - 500 - 10	ep to very deep MITATION 00m or 2000 - 25 or > 2500m		> 30% - : PTION AN SOIL DRAIN D2 - Som	many ID COMBINA NAGE lewhat poorly drained 7 poorly drained or exc	to poorly draine	d Si I Si	h2 - Shallow to	ow (< 30cm)		- sandy clay loam SOIL EROSION E2 - Modera	ate erosion		
> 100 - dee LAND LIN ELEVATION E12 - 500 - 10 E13 - < 500m SLOPE/TOPOG T2 - Undulat	ep to very deep MITATION 00m or 2000 - 25 or > 2500m RAPHY ing to moderately	00m	> 30% - 3 PTION AN SOIL DRAIN D2 - Som D3 - Very SOIL TEXT	many ID COMBINA NAGE lewhat poorly drained 7 poorly drained or exc	to poorly draine	d Si I Si R R	h2 - Shallow to h3 - Very shallo ROCK OUTCROPS c2 - Common	ow (< 30cm)		- sandy clay loam SOIL EROSION E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	0	
• 100 - dee LAND LIP ELEVATION 12 - 500 - 10 13 - < 500m ELOPE/TOPOG 12 - Undulat	ep to very deep MITATION 00m or 2000 - 25 or > 2500m RAPHY	00m	> 30% - : PTION AN SOIL DRAIN D2 - Som D3 - Very SOIL TEXT	many ID COMBINA VAGE lewhat poorly drained y poorly drained or exe URE	to poorly draine	d Si I Si R R	h2 - Shallow to h3 - Very shallo	ow (< 30cm)		- sandy clay loam SOIL EROSION E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion	0	
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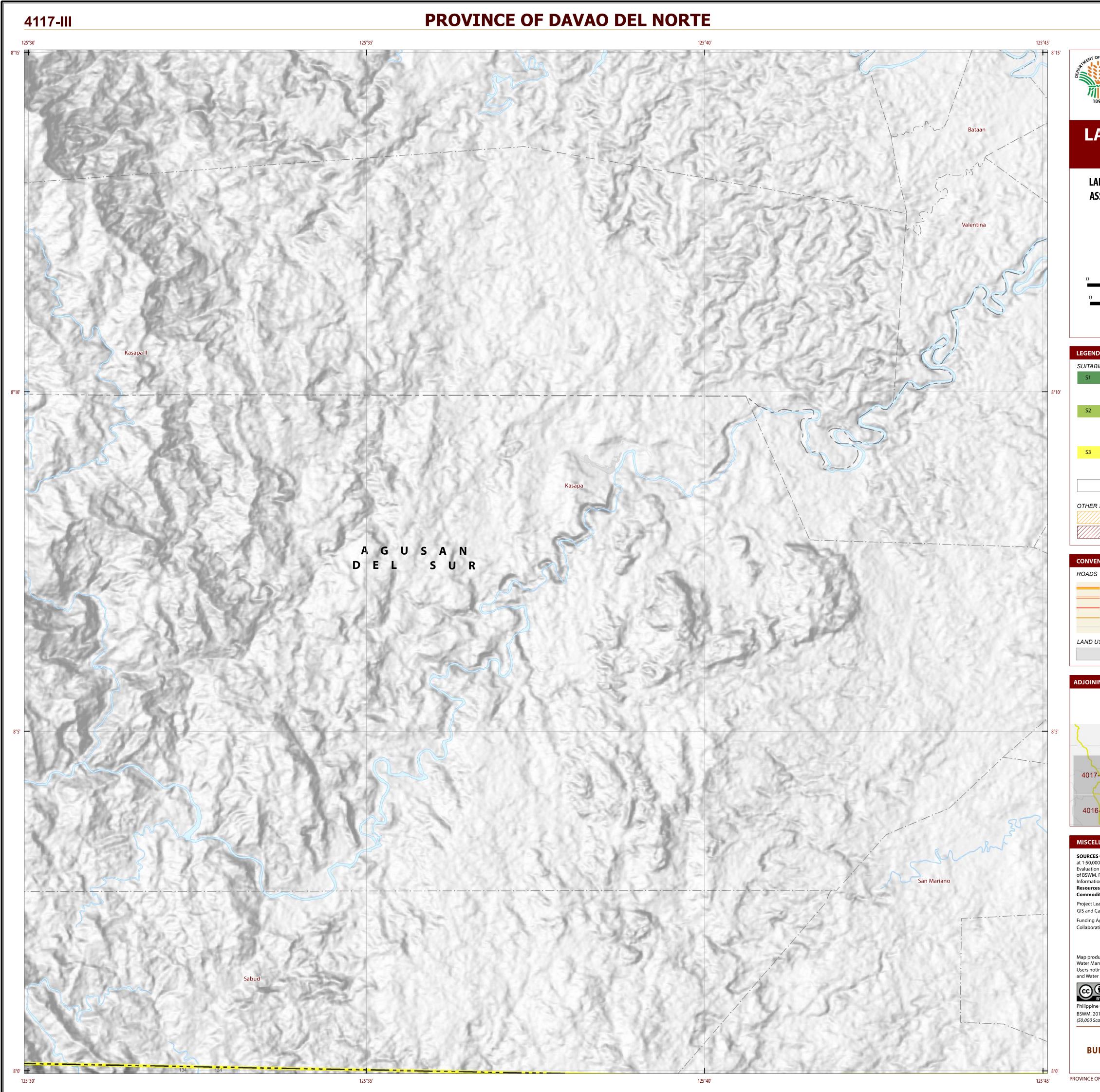


- wet during the rest of the year. Maximum rain period is from June to September
- season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

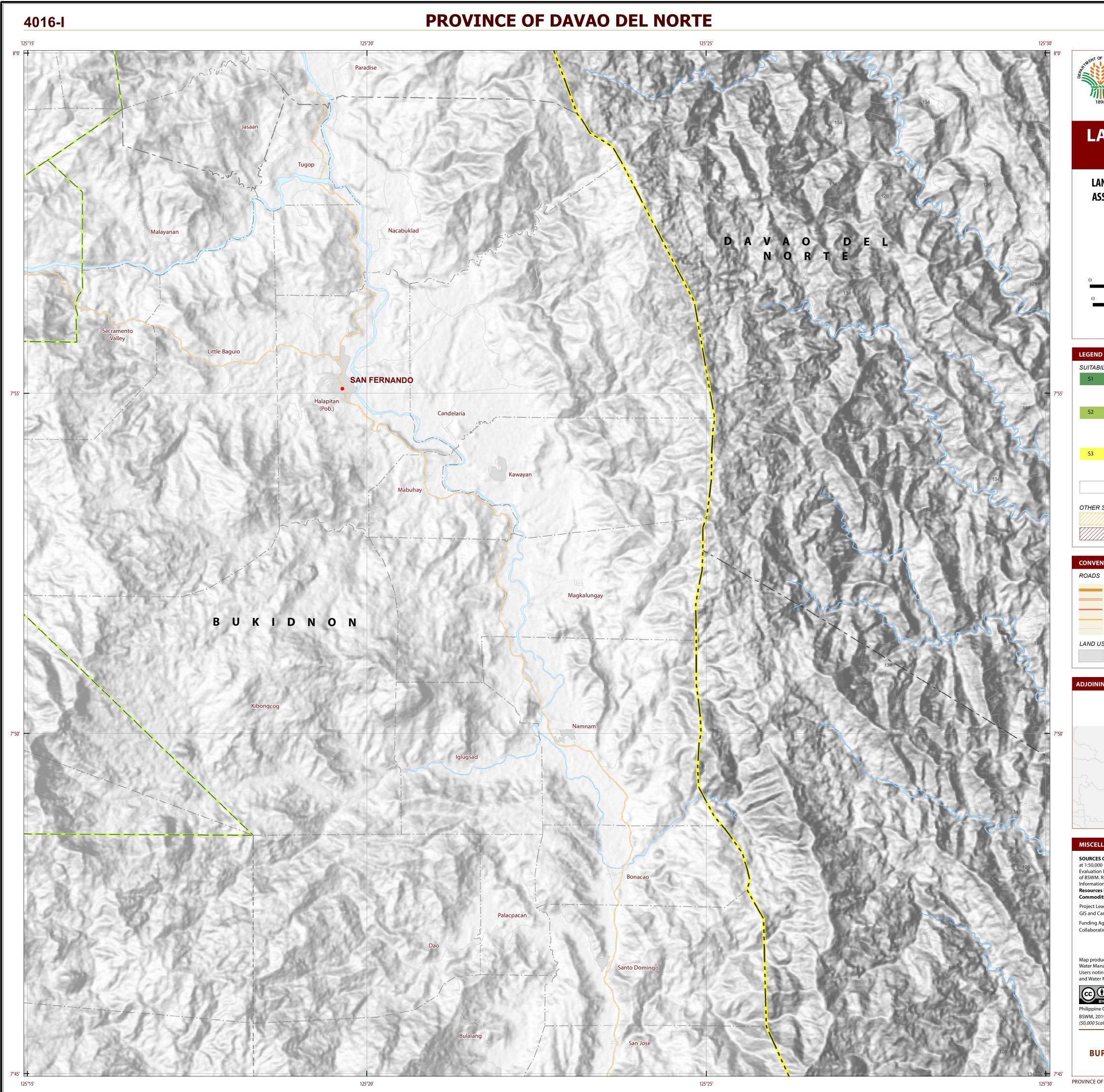




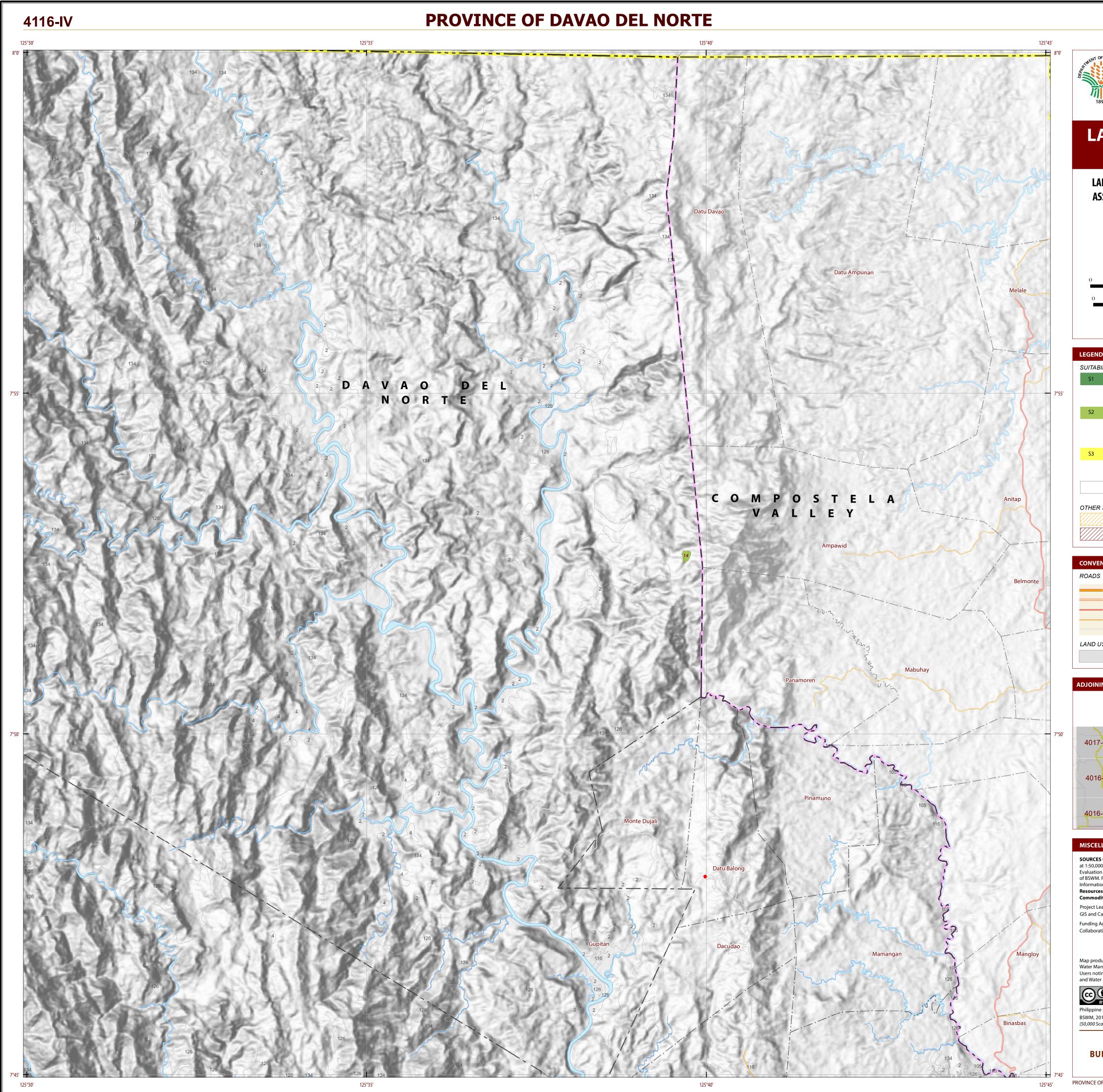
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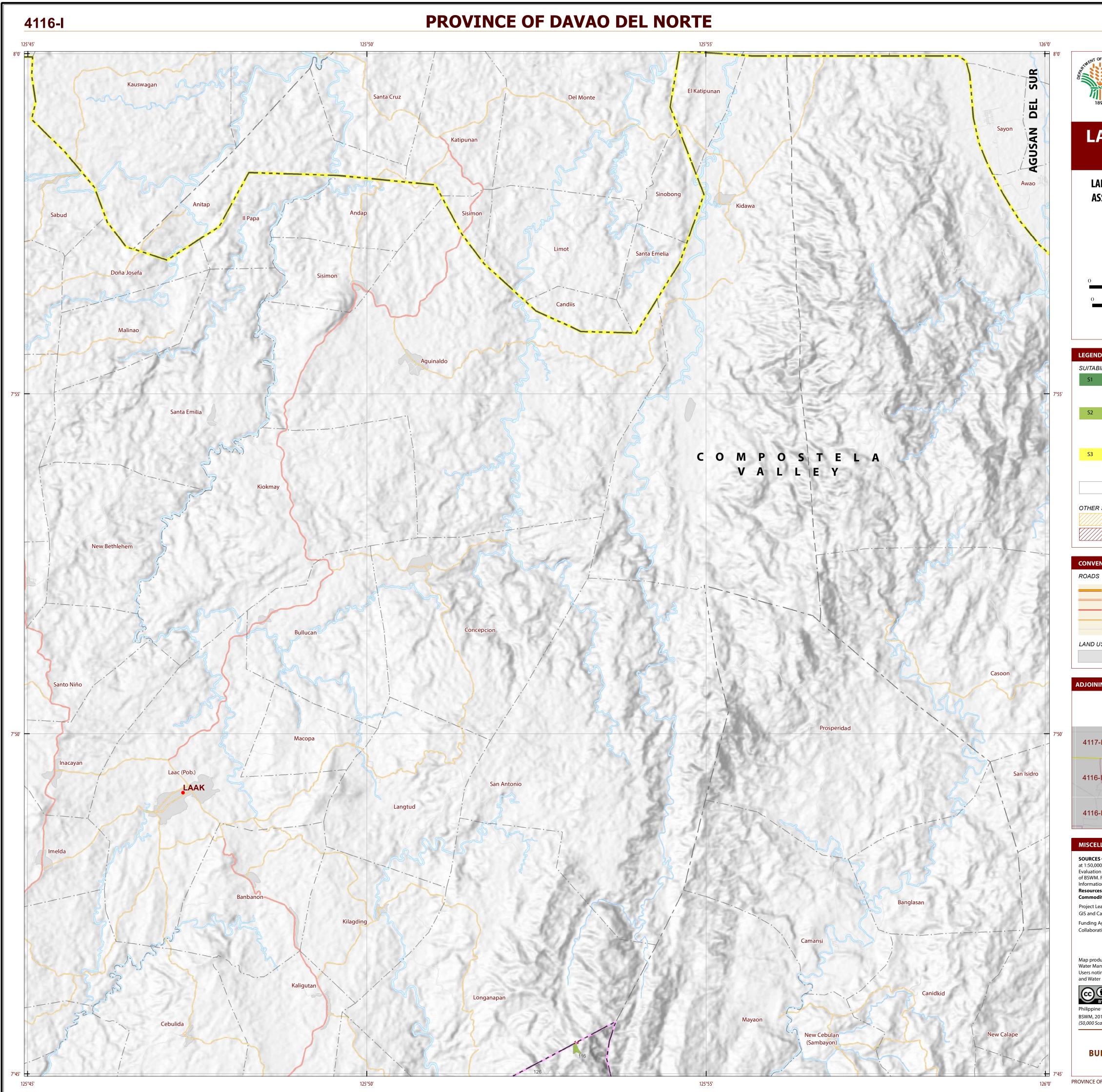
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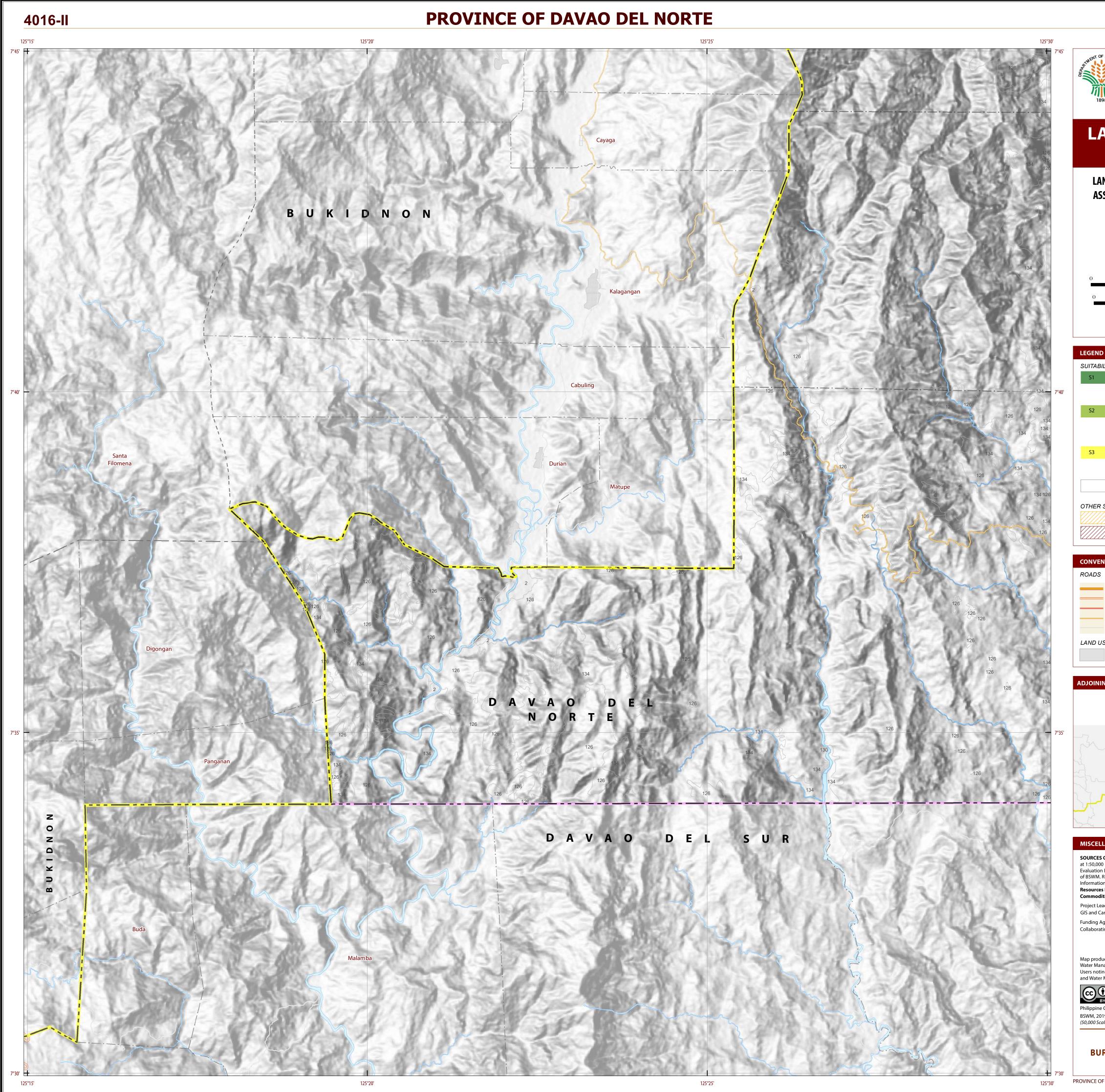
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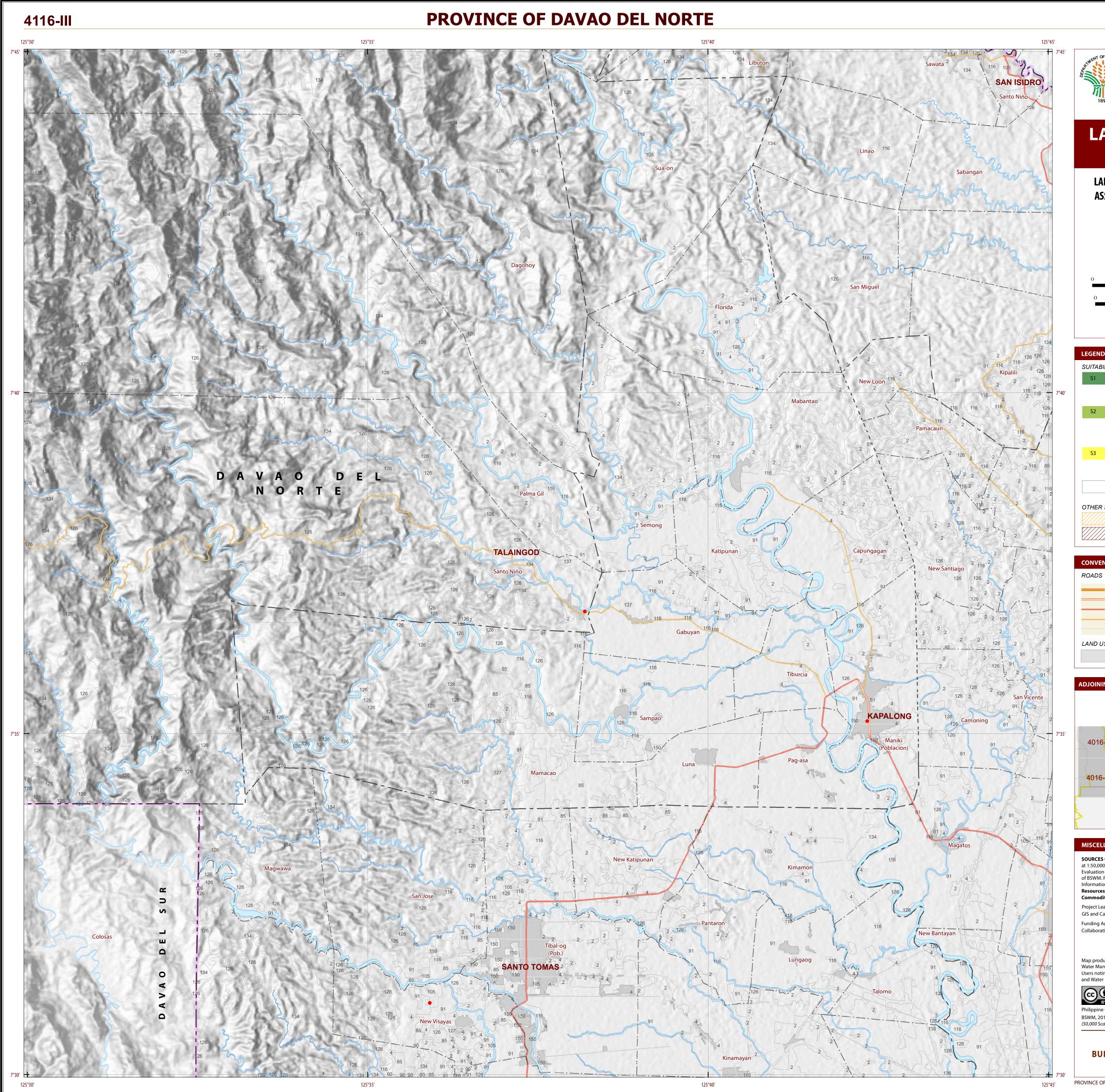
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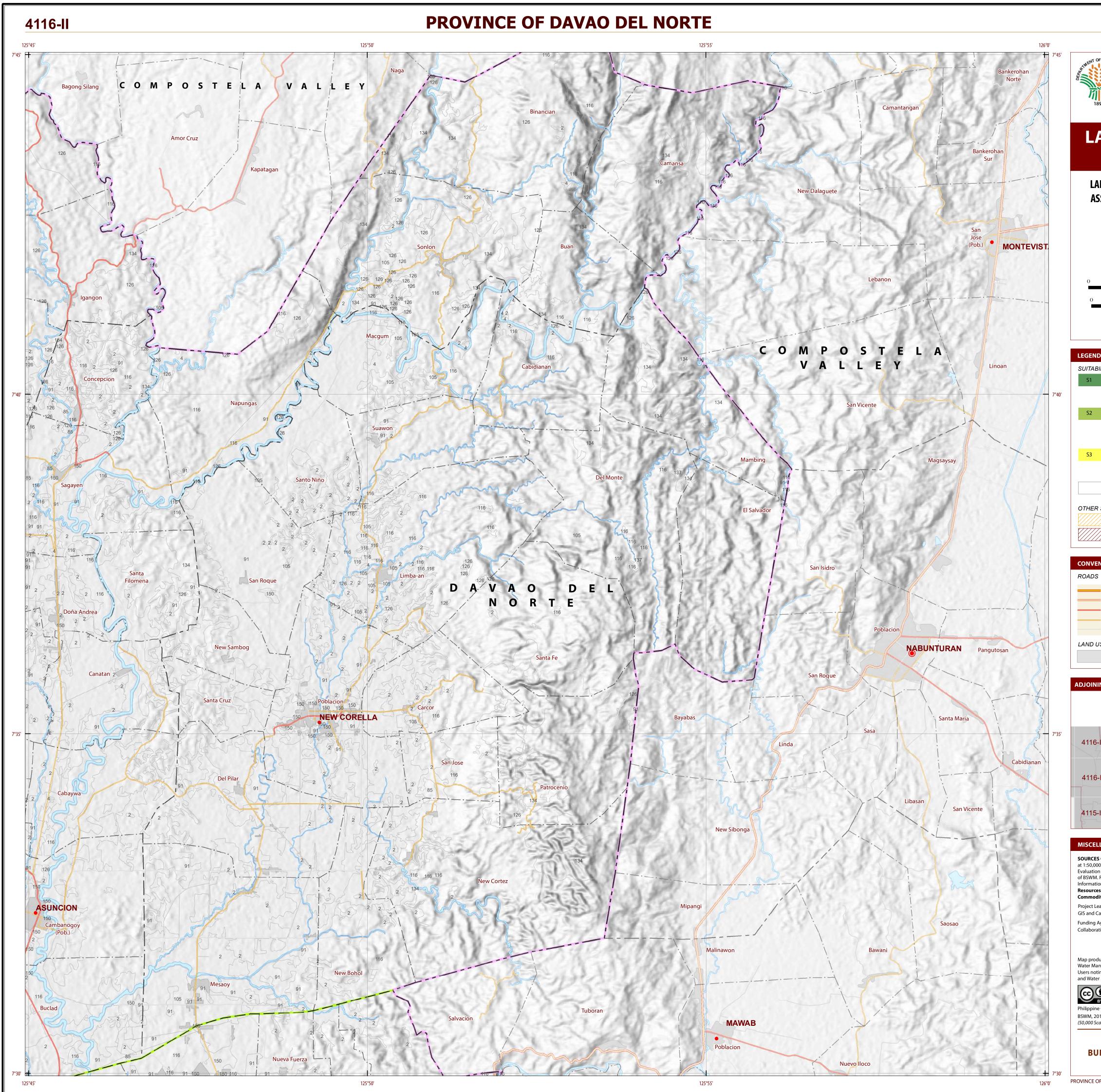
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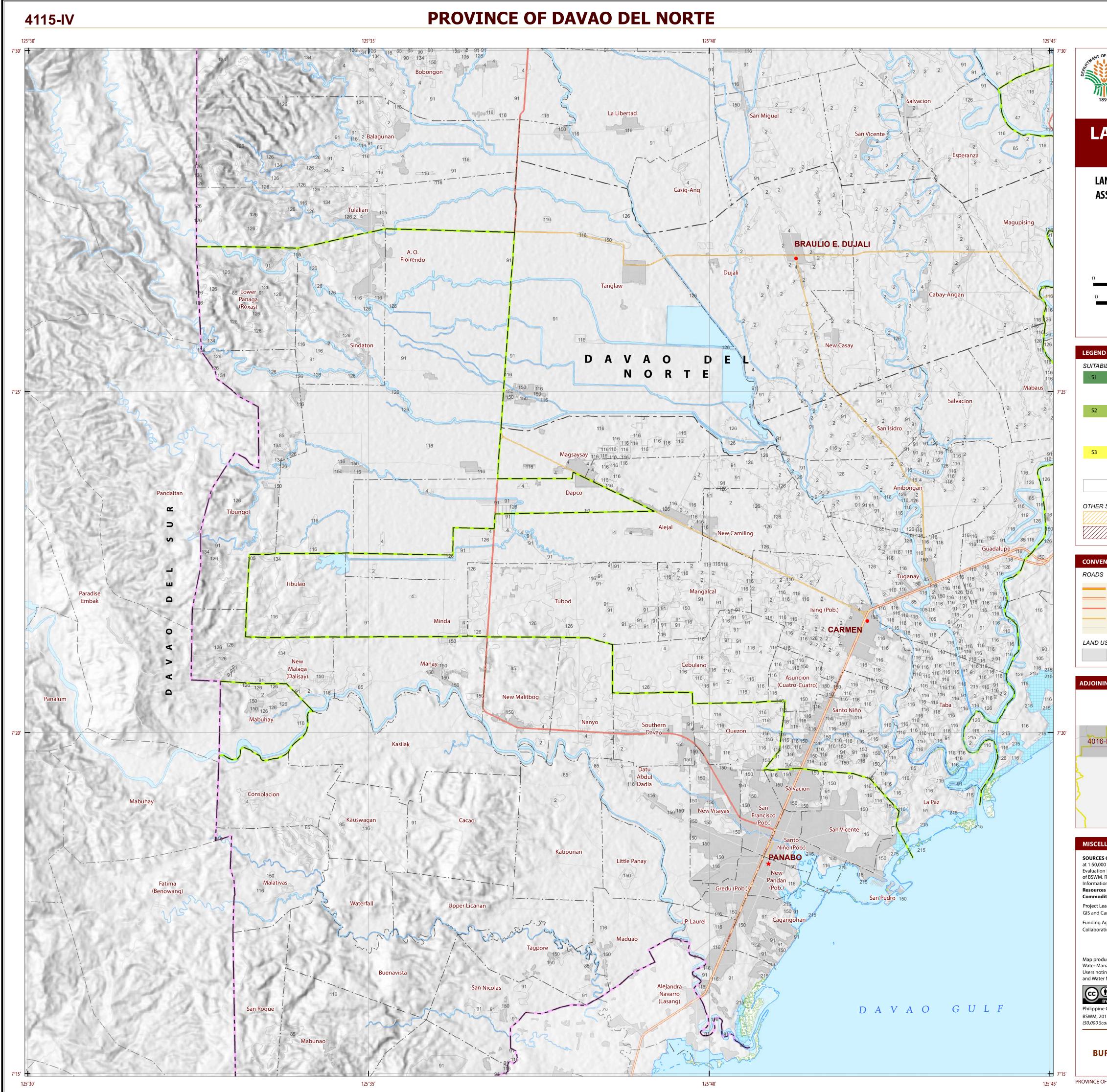
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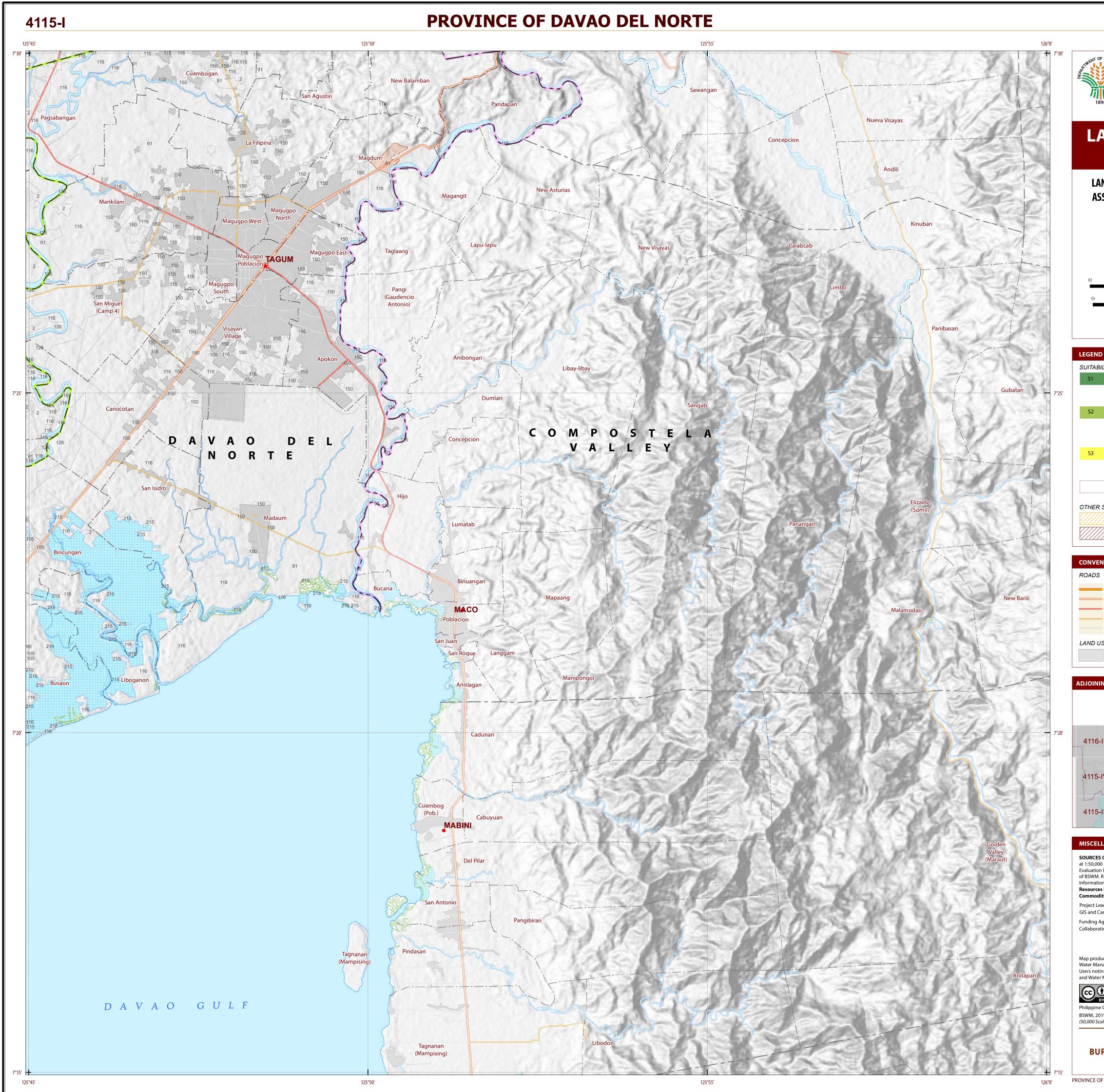
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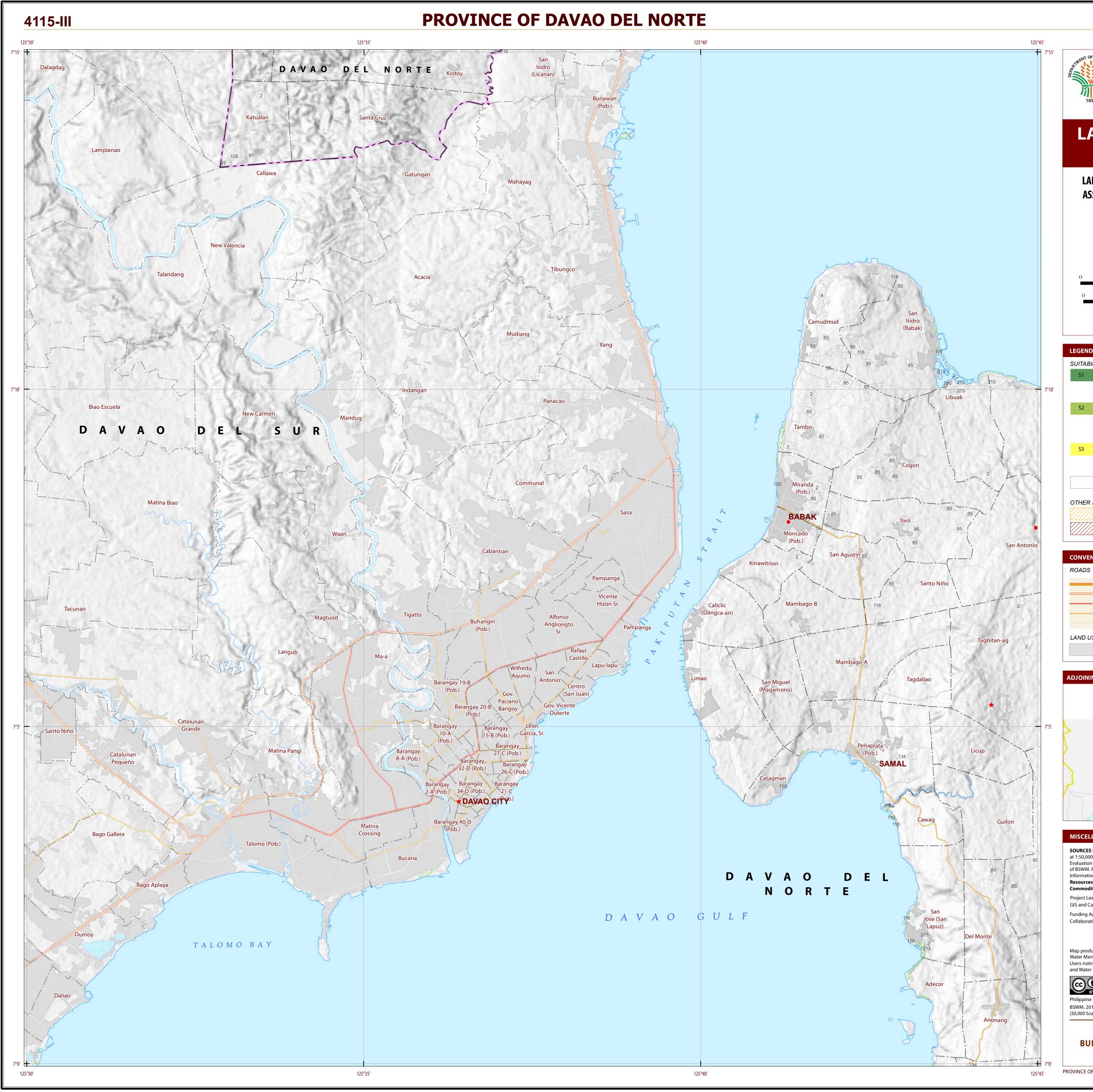
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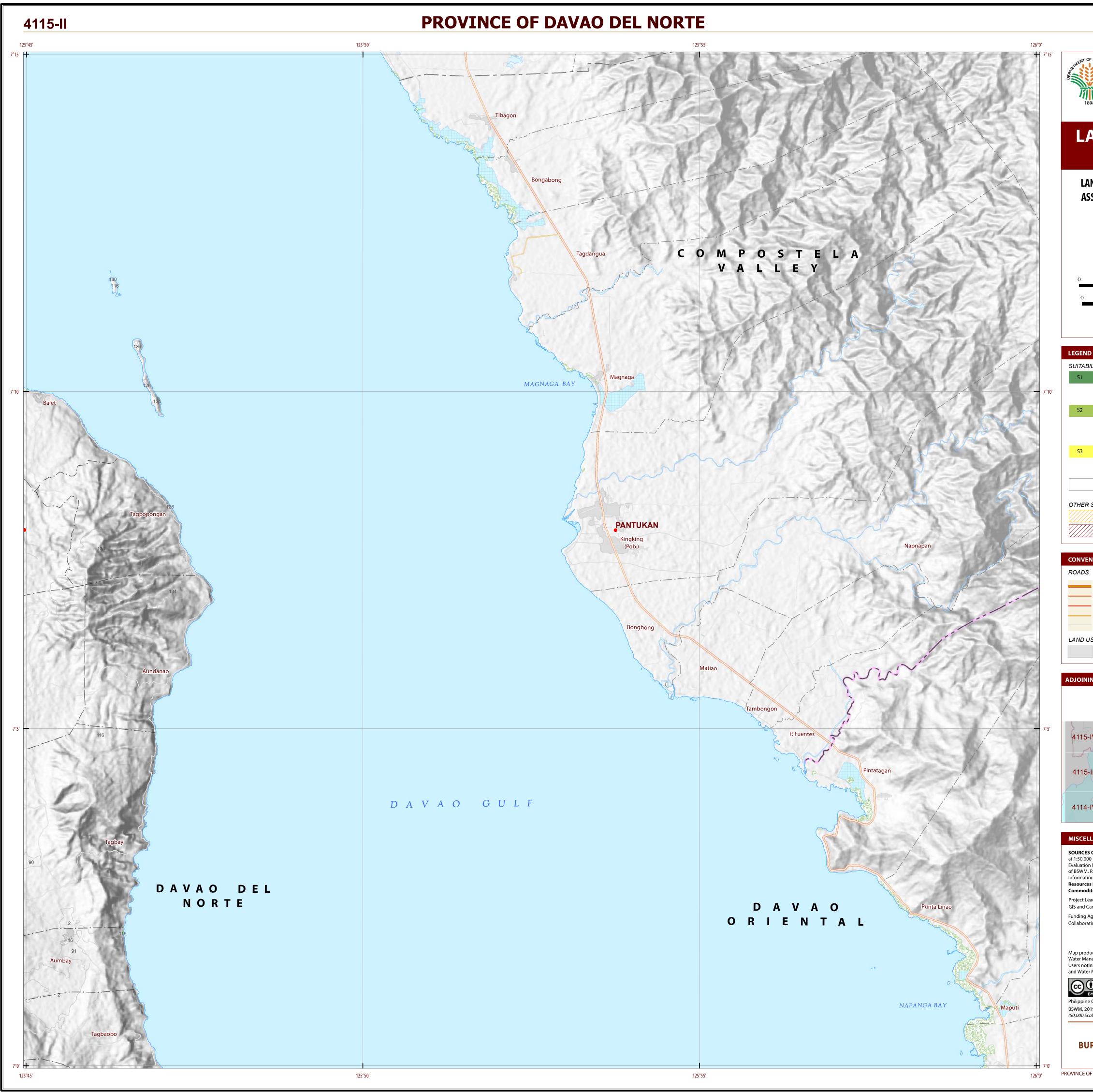
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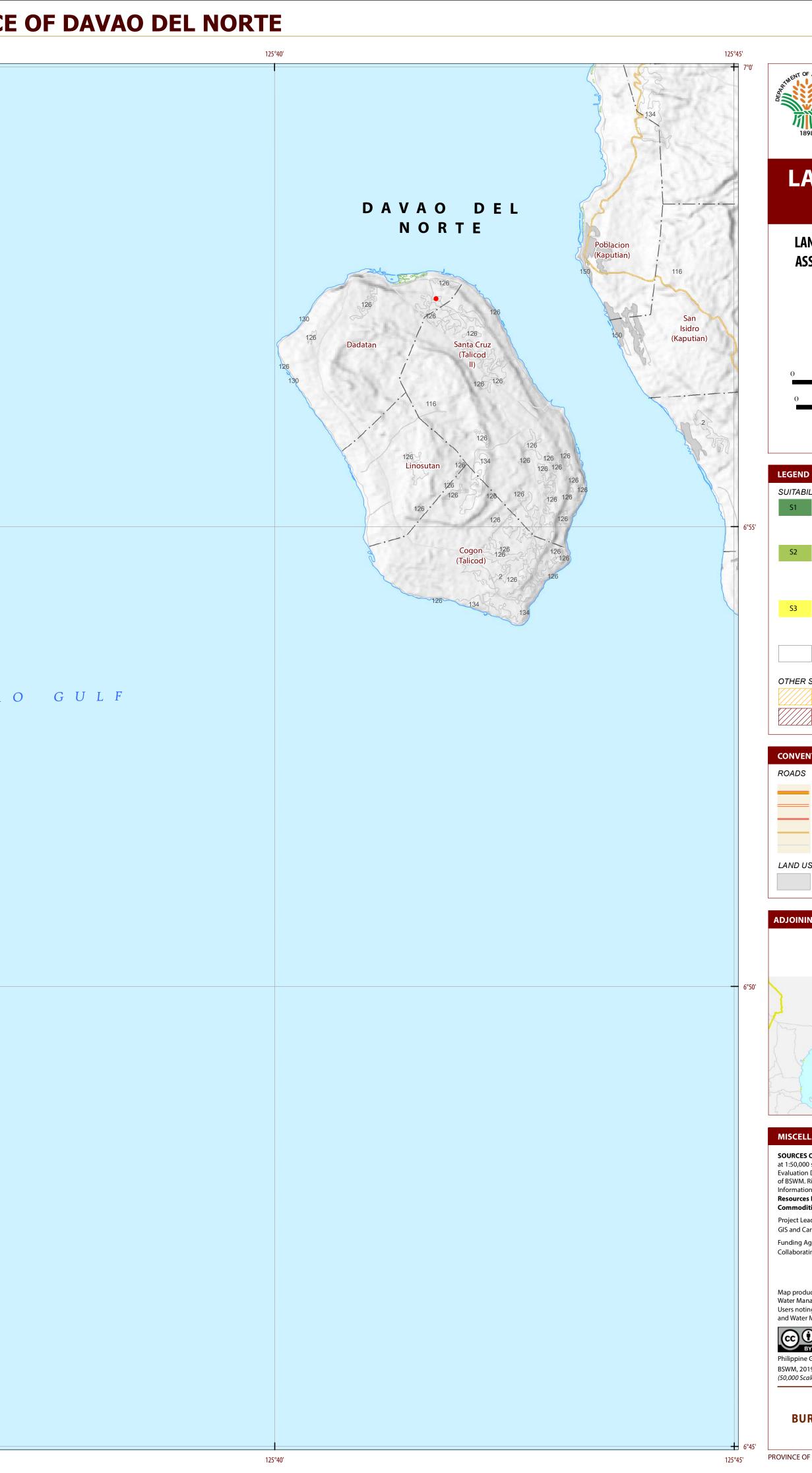


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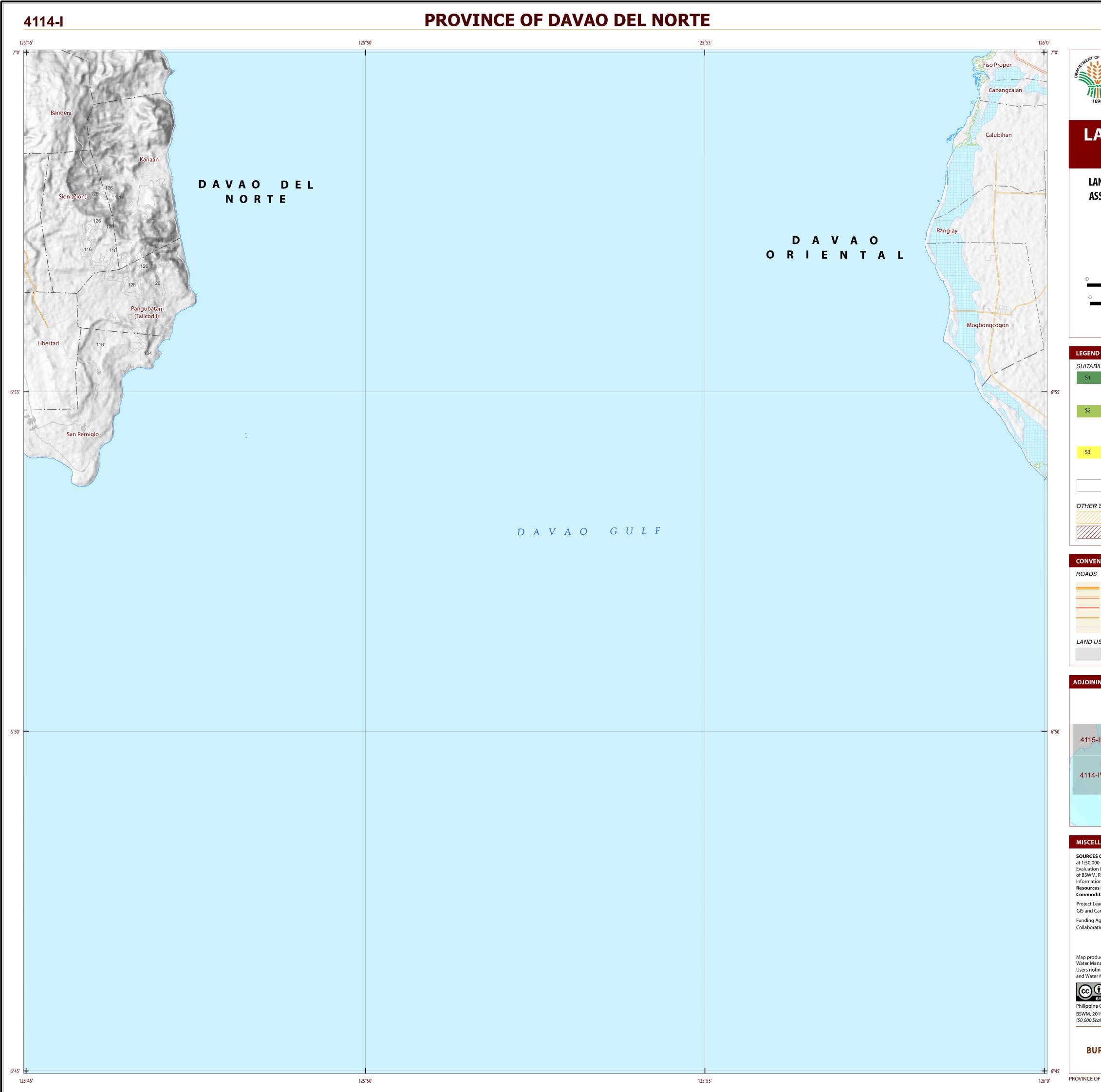


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