

PROVINCE OF DAVAO ORIENTAL

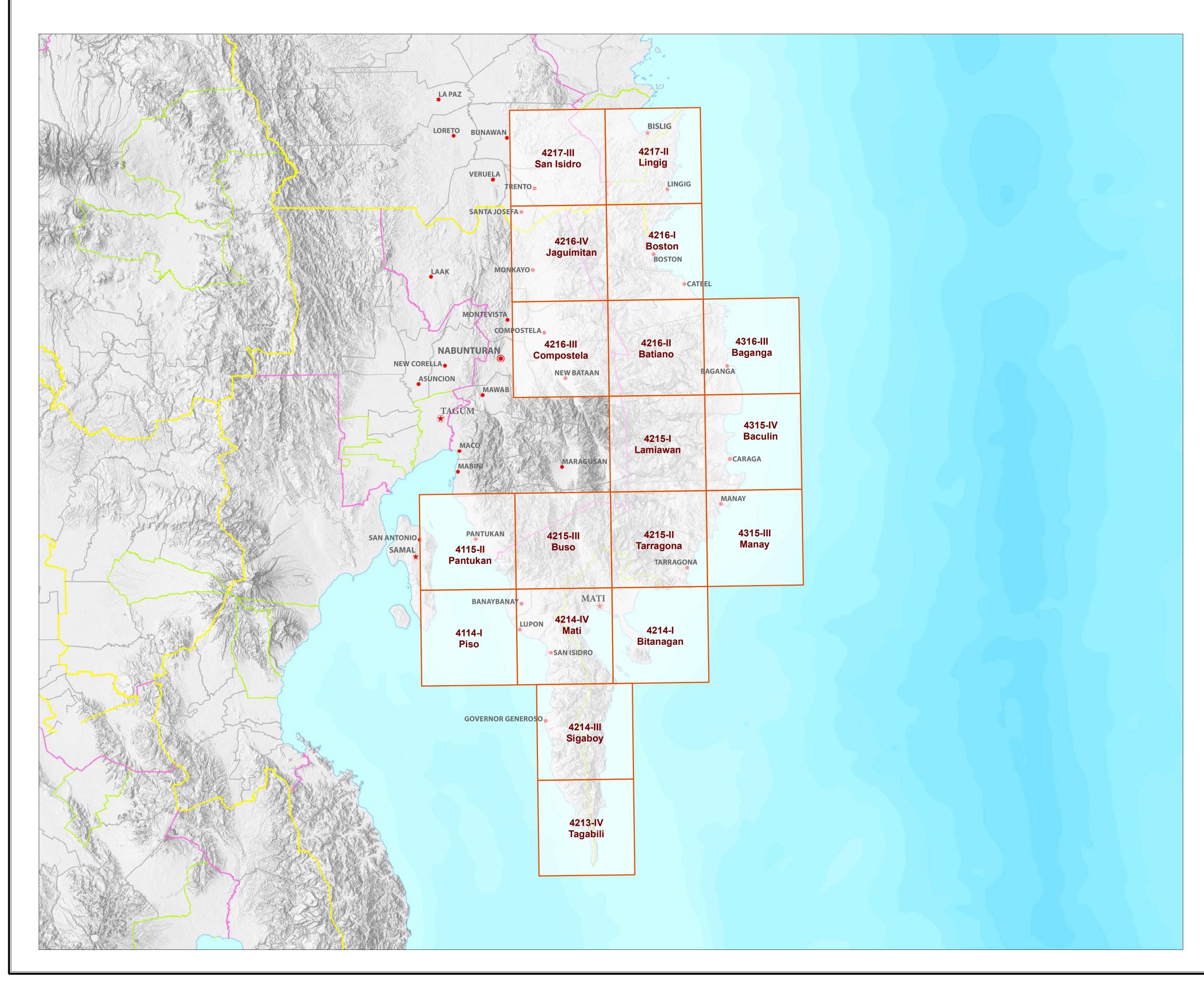
LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**



LAND SUITABILITY MAP

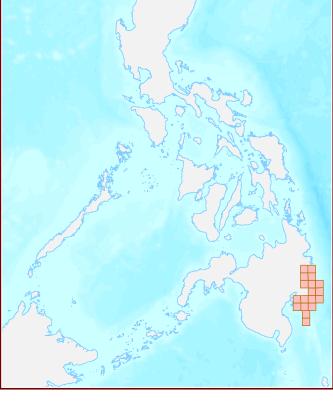
CACAO

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **PROVINCE OF DAVAO ORIENTAL**



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LEGEN	D
Places	
*	Capital City
*	City
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	City
	Municipal
Map Ind	lex
	Index grid
Topogra	phic Relief
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LOCAT	ΙΟΝ ΜΑΡ





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LAND SUITABILITY MAP FOR CACAO

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

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (H	a)			(CONFLICT	' RESOLU	TION AR	EA (Ha)			TOTAL
MUNICIPALITY	EXISTI	NG CACA	0 (Ha)	TOTAL EXISTING AREA (Ha)	Сосол	nut	Shrub unman		Grass unman		Bana	ina	Cor	n	Mar	igo	Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S 2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S 2	AKEA (IIa)
BAGANGA	94	8	-	102	1,123	197	6,439	4,445	26	26	2,258	2,605	59	21	-	-	4	2	17,204
BANAYBANAY	-	-	-	-	2,272	11	77	141	883	94	70	-	20	-	3	-	1	-	3,572
BOSTON	1	-	12	13	1,122	-	2,066	26	245	-	-	-	73	-	-	-	-	-	3,532
CARAGA	287	628	-	915	1,496	1,139	96	260	509	203	-	-	-	-	-	-	-	-	3,703
CATEEL	12	5	1,851	1,868	1,846	175	6,474	1,975	573	88	669	685	369	7	-	-	-	-	12,861
CITY OF MATI	1	-	39	40	10,315	2,026	518	27	474	77	363	33	451	67	651	-	2,588	251	17,840
GOVERNOR GENEROSO	-	-	-	-	3,509	-	672	-	730	-	549	-	20	-	1	-	-	-	5,481
LUPON	-	-	10	10	4,154	62	1,290	70	150	62	4,546	34	184	-	9	-	10	-	10,572
MANAY	1	13	-	14	4,150	2,587	31	21	1,869	1,819	-	-	-	-	-	-	-	-	10,477
SAN ISIDRO	-	-	-	-	3,154	675	-	-	362	100	332	9	78	18	266	-	-	-	4,993
TARRAGONA	-	-	1	-	74	231	-	11	451	255	19	42	103	78	7	-	-	1	1,273
TOTAL	396	654	1,913	2,963	33,215	7,103	17,663	6,976	6,271	2,724	8,806	3,408	1,357	190	937	-	2,603	255	91,508

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

A CRONIC DECLUREMENT OF CACAO DRODUCTION

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	TYPE II
	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	
Cacao	S2	8 - 30	50 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	1000-1500	1000-2000	I, II	
	S3	>30	<50	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500		
.OPE (%)			SOIL DRAINA	IGE		SOIL REACTION	(pH)		SOIL TEXTURE			•		Davao Or
	el to gently sloping	g	ED - e	xcessively drained			emely acid		Coarse		F	ine		
	ntly sloping to und	-		vell drained			strongly acid		S - sand		S		v clay	
	dulating to rolling	-		noderately well drained		-	ngly acid		LS - loam	ny sand	Si		-	
- 30 - roll	ling to moderately	r steep	SPD - s	omewhat poorly draine	ed	5.6 - 6.0 - medi	ium acid		CSL - coars	se sandy loam	С	- clay	-	
50 - stee	ep		PD - p	oorly drained		6.1 - 6.5 - sligh	tly acid		SL - sand	y loam	Н	C - heavy	/ clay	
- ver	'y steep		VPD - v	ery poorly drained		6.6 - 7.2 - neut	ral		Medium					
						7.3 - 7.8 - mild	ly alkaline		FSL - fines	sandy loam				
L DEPTH (c	cm)		SURFACE IM	PEDIMENT		7.9 - 8.4 - mod	erately alkaline		L - loam	1				
30 - ver	y shallow		ROCK OUTCR	OPS		> 8.5 - stron	ngly alkaline		SiL - silt lo	oam				
- 50 - sha	llow		< 10% - n	one - few					CL - clay	loam				
100	derately deep		10 - 30% - c	ommon						clay loam				
									CCI	11				
	ep to very deep		> 30% - n	hany					SCL - sand	y clay loam				
100 - dee	ep to very deep	SDESCRIE			IONS				SCL - sand	y clay loam				
00 - dee AND LIM	ep to very deep	S DESCRIF		D COMBINAT	IONS	SO	DIL DEPTH			OIL EROSION				
00 - dee AND LIM EVATION	ep to very deep	S DESCRIF	TION ANI soil drain	D COMBINAT				leep (50 - 100cm	S		erosion			
100 - dee AND LIN EVATION 2 - 1000m -	ep to very deep	S DESCRIF	TION ANI soil drain D2 - Some	D COMBINAT	o poorly drained		2 - Moderately d	leep (50 - 100cm 7 to shallow (< 50	S 1) E	OIL EROSION				
100 - dee AND LIN EVATION 2 - 1000m -	ep to very deep	S DESCRIF	TION ANI soil drain D2 - Some	D COMBINAT	o poorly drained	Shi	2 - Moderately d		S 1) E	OIL EROSION 2 - Moderate				
00 - dee AND LIN EVATION 2 - 1000m - 3 - > 1500m OPE/TOPOG	ep to very deep MITATION 1500m n RAPHY		PTION ANI SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU	D COMBINAT AGE what poorly drained to poorly drained or exce JRE	o poorly drained	Shi Shi RC	2 - Moderately d3 - Very shallowOCK OUTCROPS		S 1) E Dcm) E F	OIL EROSION 2 - Moderate 3 - Severe er LOODING	osion			
L00 - dee AND LIN EVATION 2 - 1000m - 3 - > 1500m OPE/TOPOG - Undulati	ep to very deep MITATIONS • 1500m n • RAPHY ing to moderately		PTION ANI SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU	D COMBINAT AGE ewhat poorly drained to poorly drained or exce	o poorly drained	Shi Shi RC	2 - Moderately d 3 - Very shallow DCK OUTCROPS 2 - Common		ı) E Dcm) E F F	OIL EROSION 2 - Moderate 3 - Severe er LOODING 2 - Moderate	osion seasonal flooding			
00 - dee ND LIN VATION - 1000m - - > 1500m OPE/TOPOG - Undulati	ep to very deep MITATION 1500m n RAPHY		PTION ANI SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU	D COMBINAT AGE what poorly drained to poorly drained or exce JRE	o poorly drained	Shi Shi RC	2 - Moderately d3 - Very shallowOCK OUTCROPS		S 1) E Dcm) E F	OIL EROSION 2 - Moderate 3 - Severe er LOODING 2 - Moderate	osion			
AND LIM EVATION - 1000m - - > 1500m OPE/TOPOG - Undulati - Steep to	ep to very deep MITATION • 1500m n RAPHY ing to moderately very steep		PTION ANI SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar	D COMBINAT AGE ewhat poorly drained to poorly drained or exce IRE se texture	o poorly drained essively drained	Shi Shi RC Rci	 2 - Moderately d 3 - Very shallow DCK OUTCROPS 2 - Common 3 - Many 		l) E Dcm) E F F F	OIL EROSION 2 - Moderate 3 - Severe er LOODING 2 - Moderate 3 - Severe se	osion seasonal flooding		E	CODE LANDUSI
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00 - dee AND LIN EVATION - 1000m - - 21500m - 00E OPE/TOPOGI - Undulati - Steep to DE LIM 1 E2 2 E2-Sh2-I	ep to very deep MITATION A 1500m A 1	steep DDE LIMITA 11 El3-E3-Sh2-	TION ANI SOIL DRAIN D2 - Some D3 - VerySOIL TEXTU Tc - CoarTc - CoarATIONCOD 21Rc321 22	D COMBINAT AGE ewhat poorly drained to poorly drained or exce JRE se texture E LIMITATION T2-E3-Rc2	o poorly drained essively drained CODE L 31 T2-El 32 T2-El	Shi Shi RC Rci Rci IMITATION 3-E3-Rc3	 2 - Moderately d 3 - Very shallow OCK OUTCROPS 2 - Common 3 - Many CODE LIMIT 41 T3-E3-Sh3 	ATION CO -Rc3 5 5 5	1) E Dcm) E F F F DE LIMITATI 1 T3-F2-D2	OIL EROSION 2 - Moderate 3 - Severe er LOODING 2 - Moderate 3 - Severe se ON CODE 61 62	osion seasonal flooding asonal flooding LIMITATION T3-E13-E3-Sh3-Rc	CODE 3 4	Corn	107 Abaca
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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.

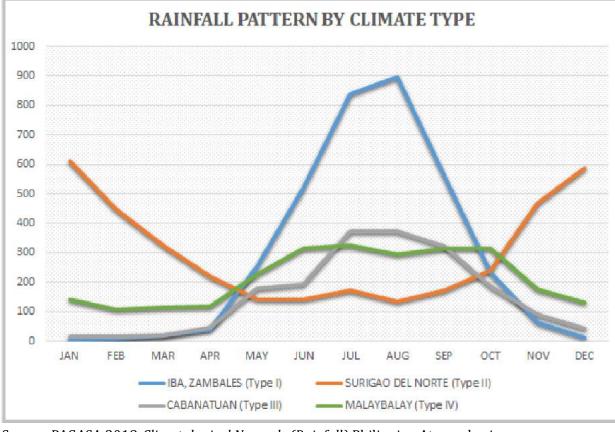
Moderately Suitable (S2)

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.

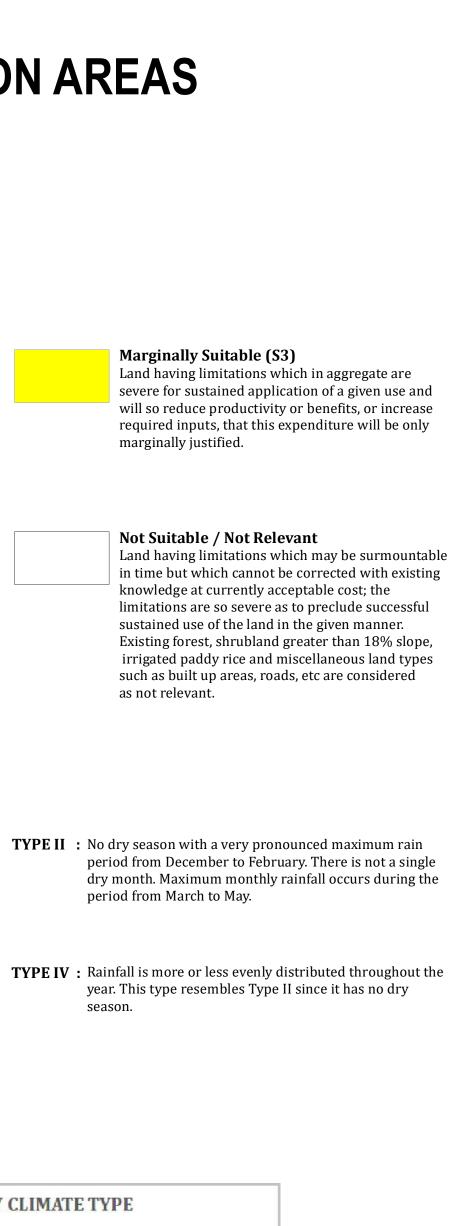
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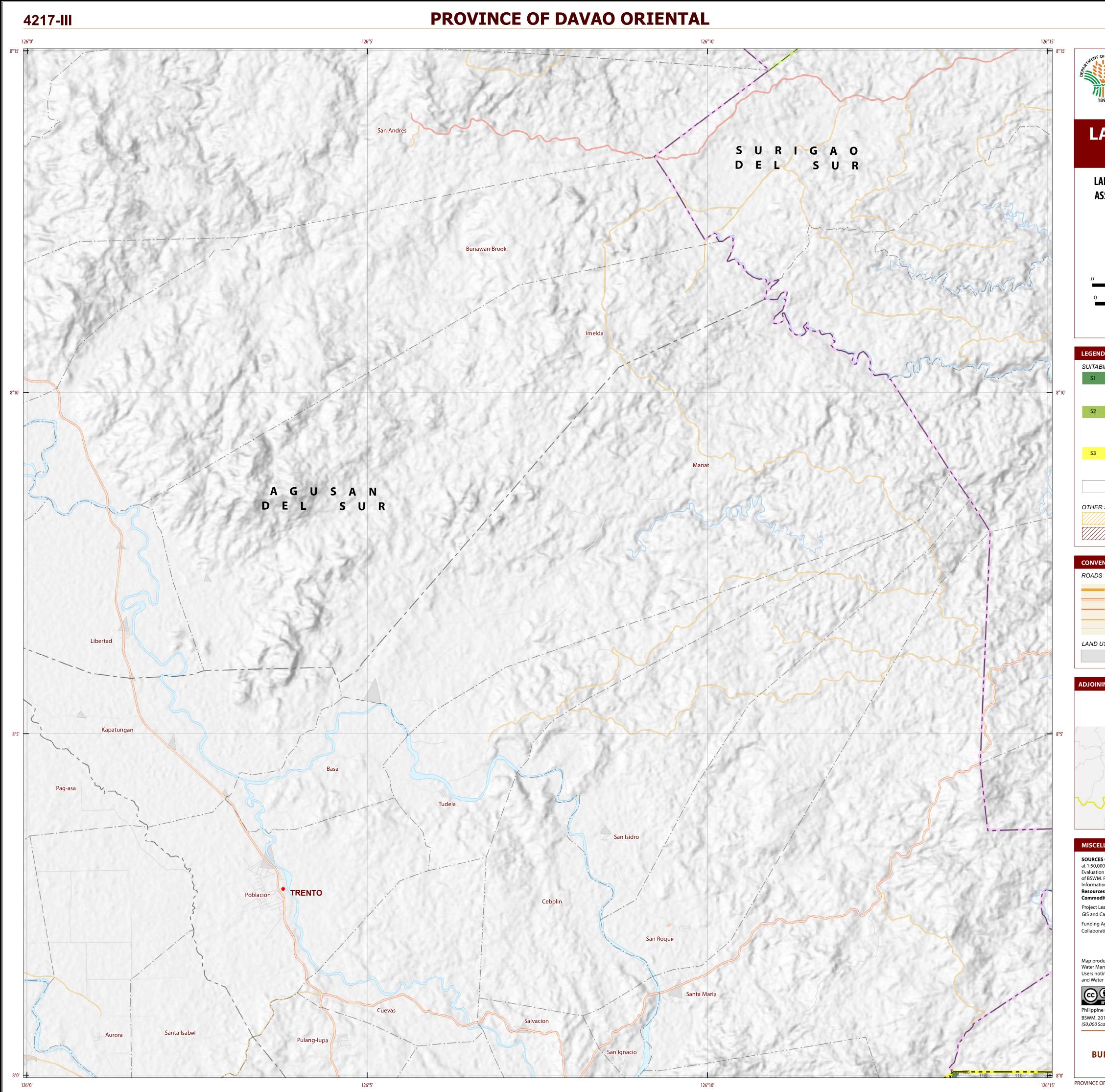
- **TYPE I** : Two pronouced season, dry from November to April and **TYPE II** : No dry season with a very pronounced maximum rain wet during the rest of the year. Maximum rain period is from June to September
- very pronounced maximum rain period, with a dry son lasting only from one to three months, either ng the period from December to February or from ch to May. This type resembles Type I since it has ort dry season.

s classified as climatic Type IV.



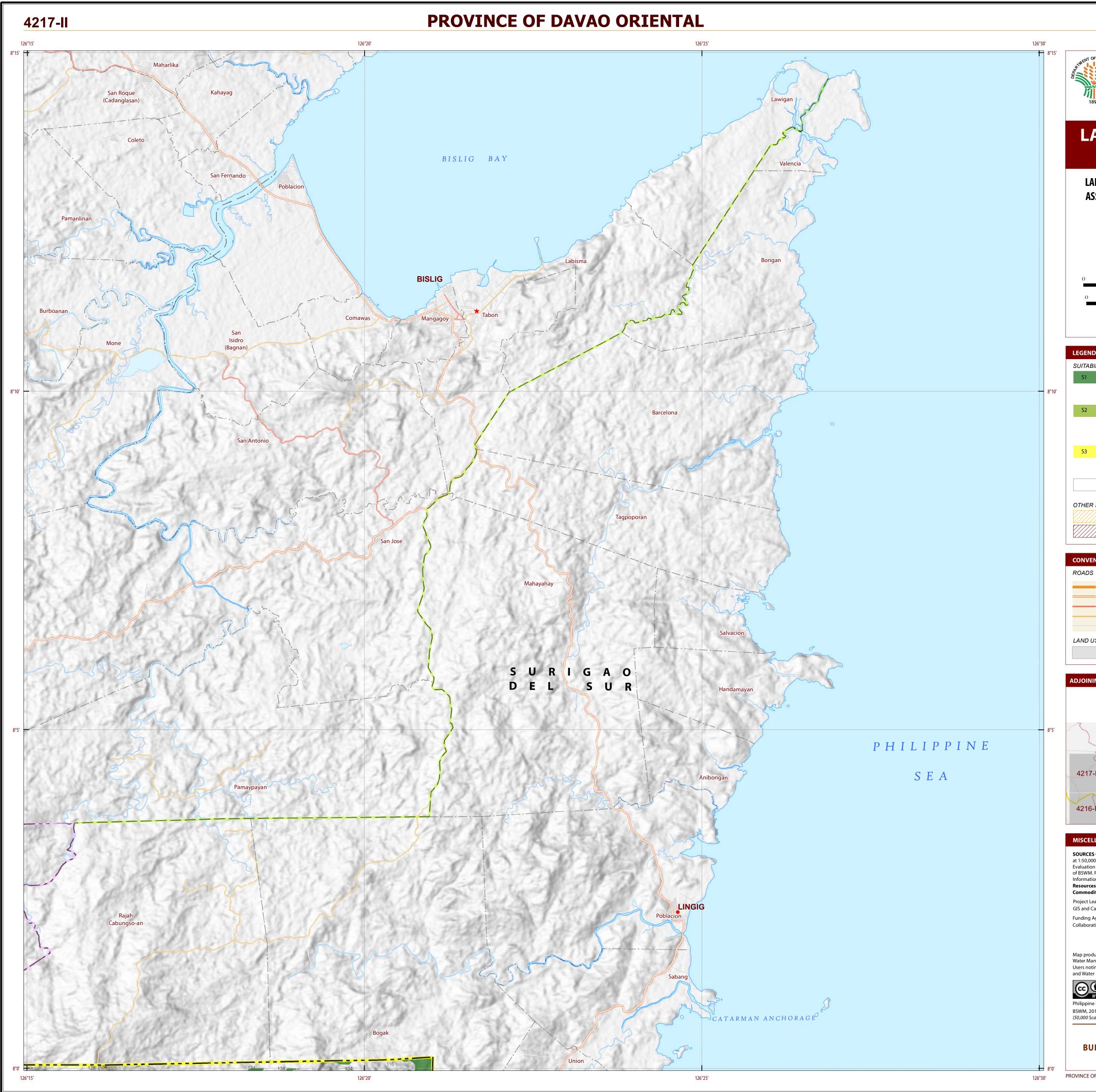
Source: PAGASA 2018, Climatological Normals (Rainfall), Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals.



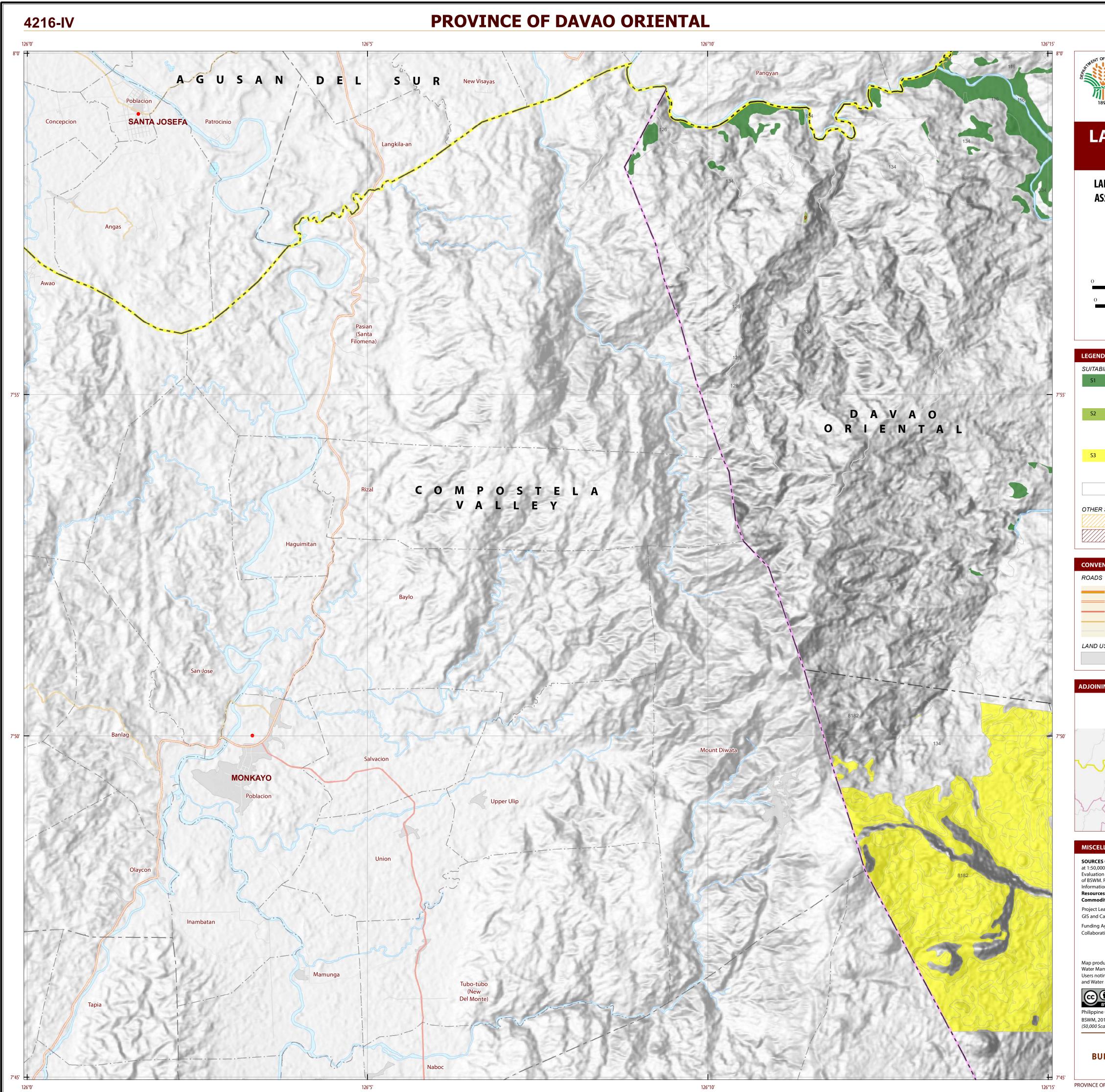


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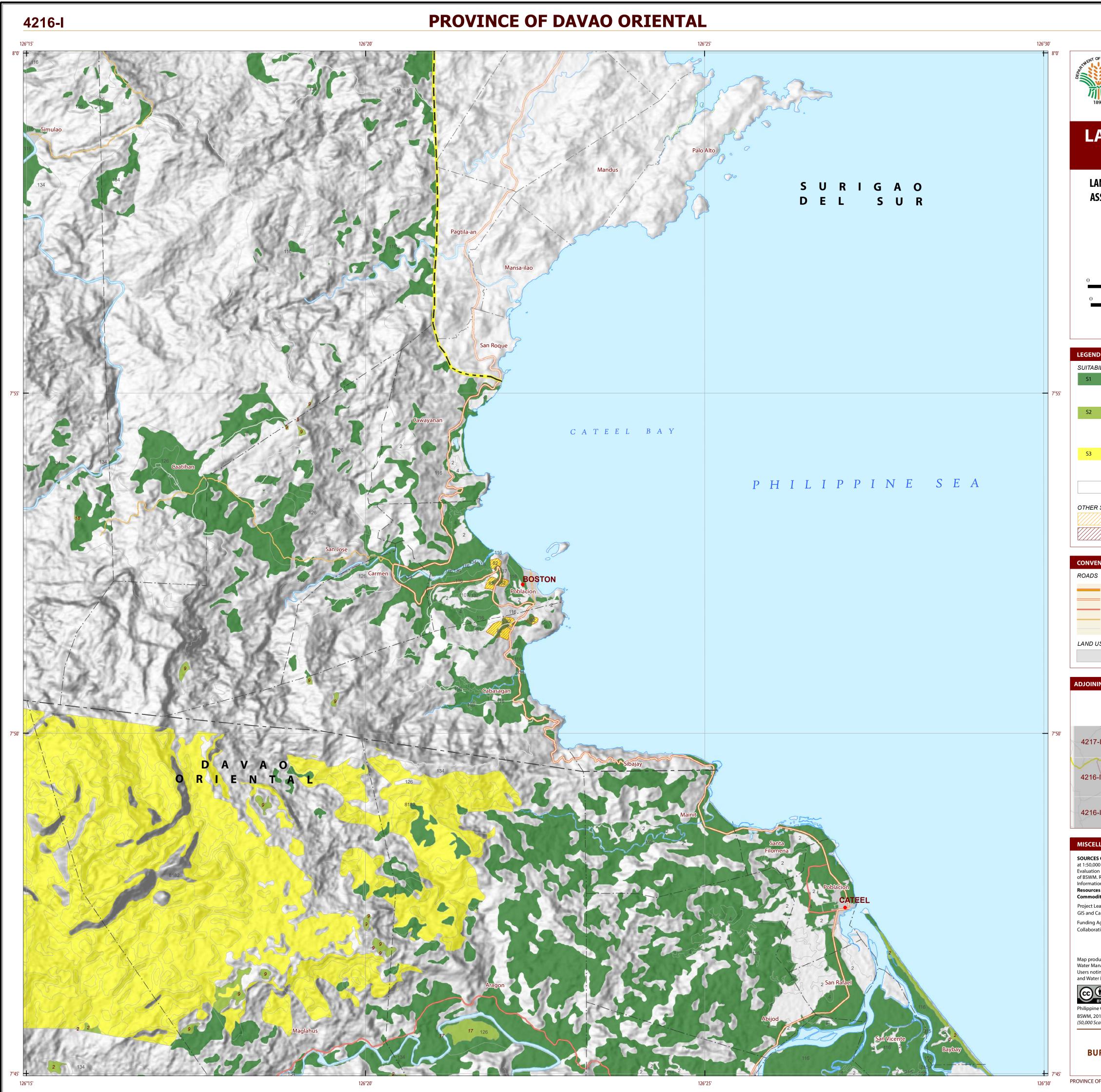
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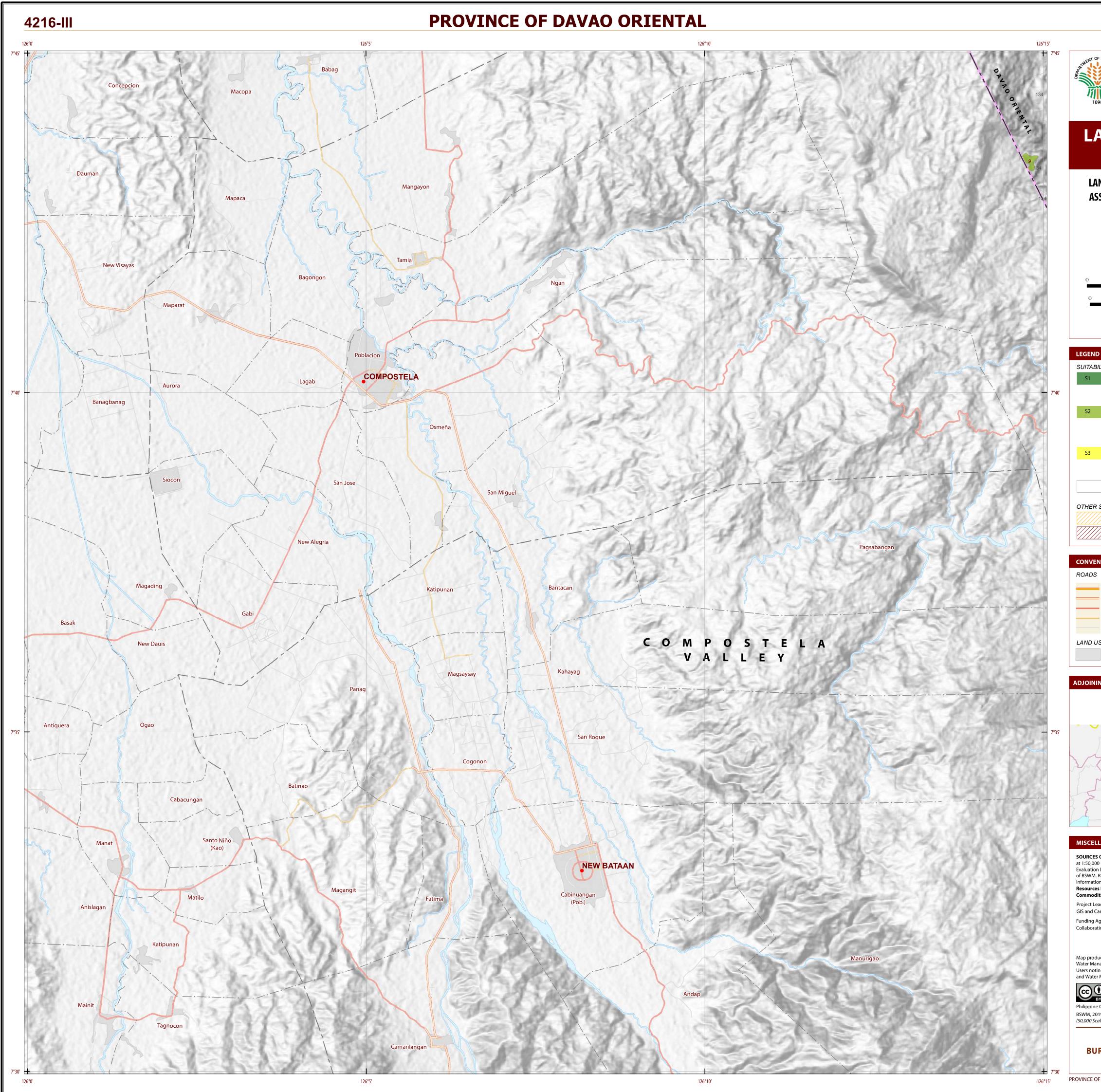
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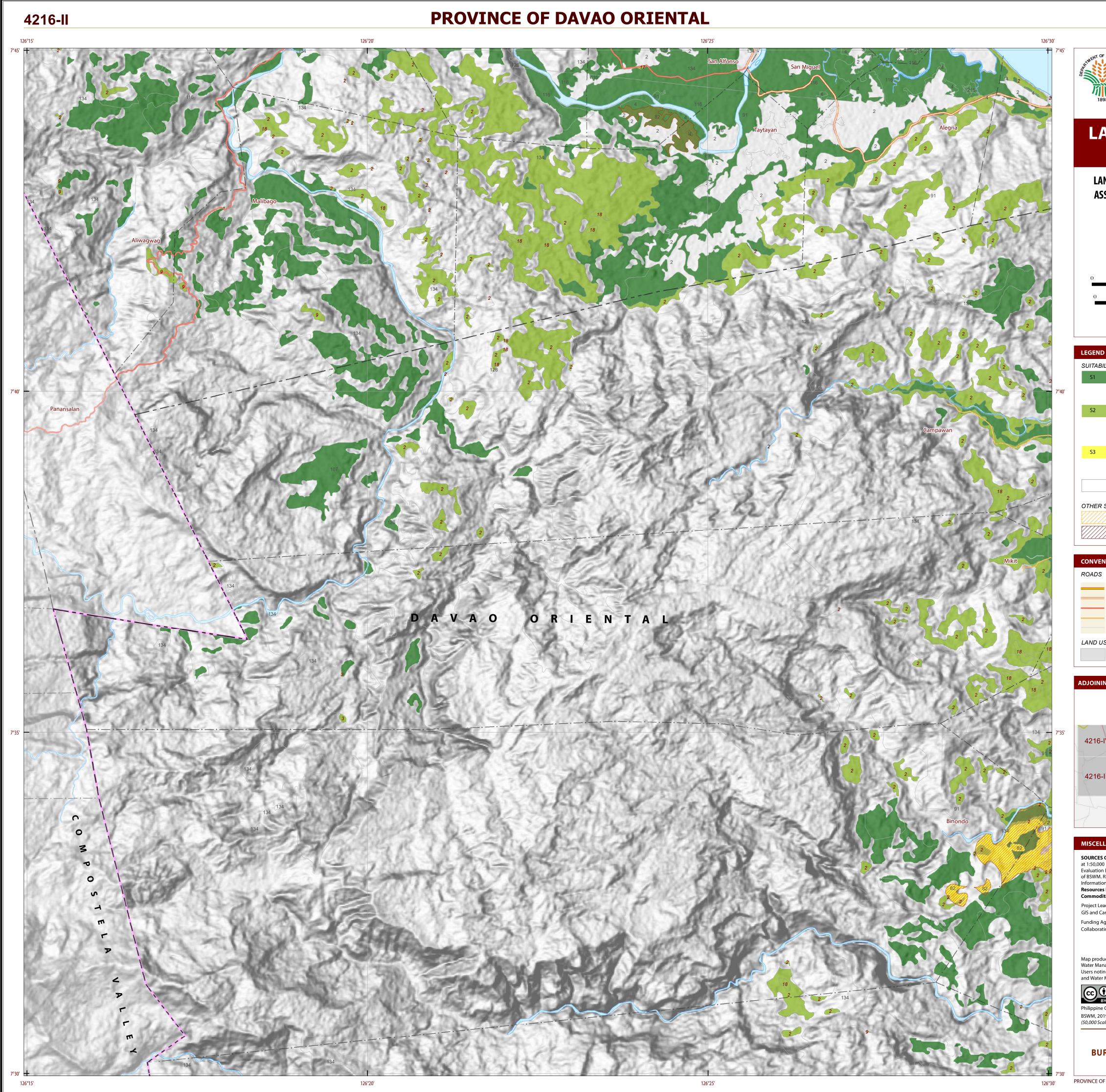
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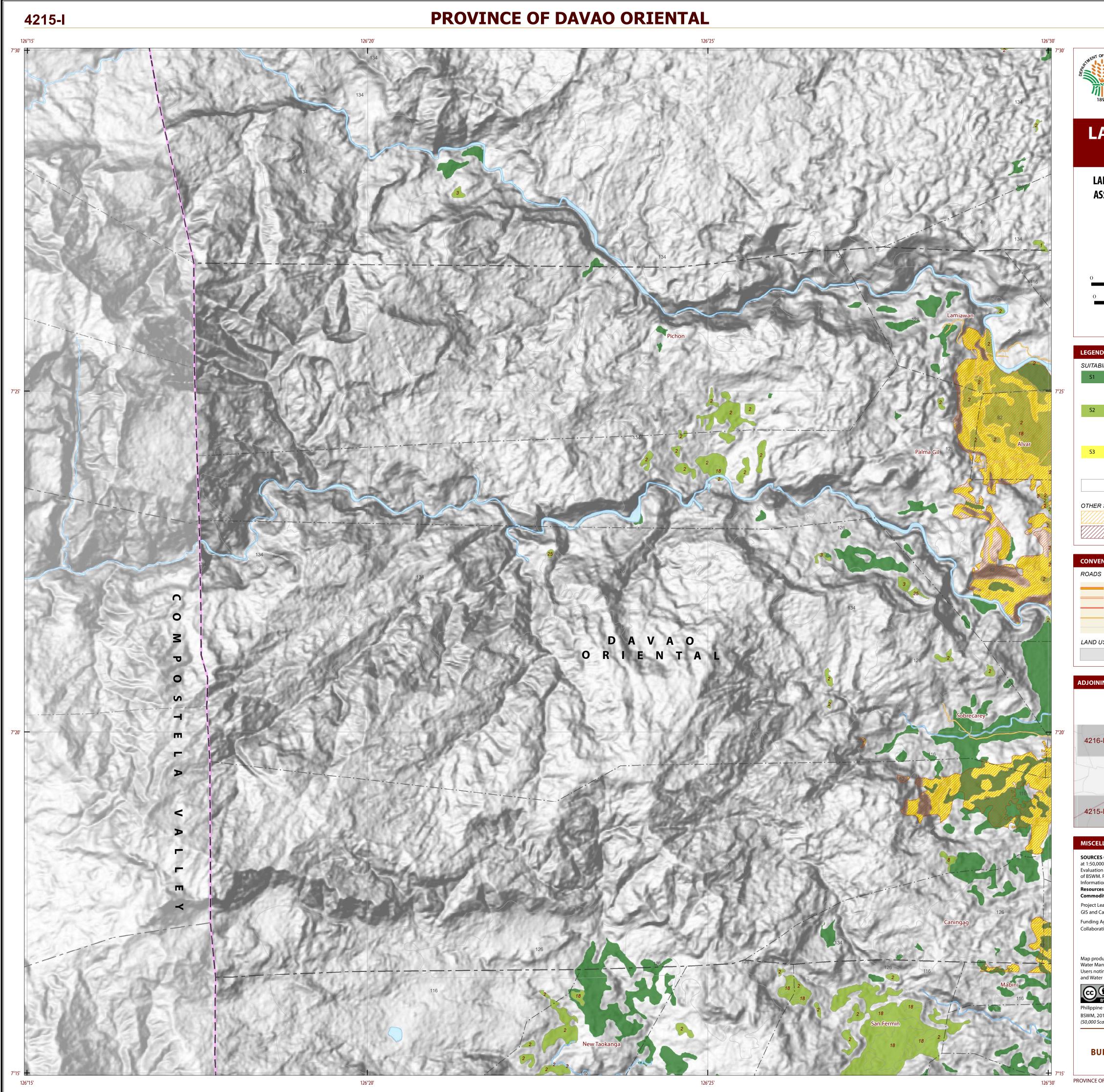


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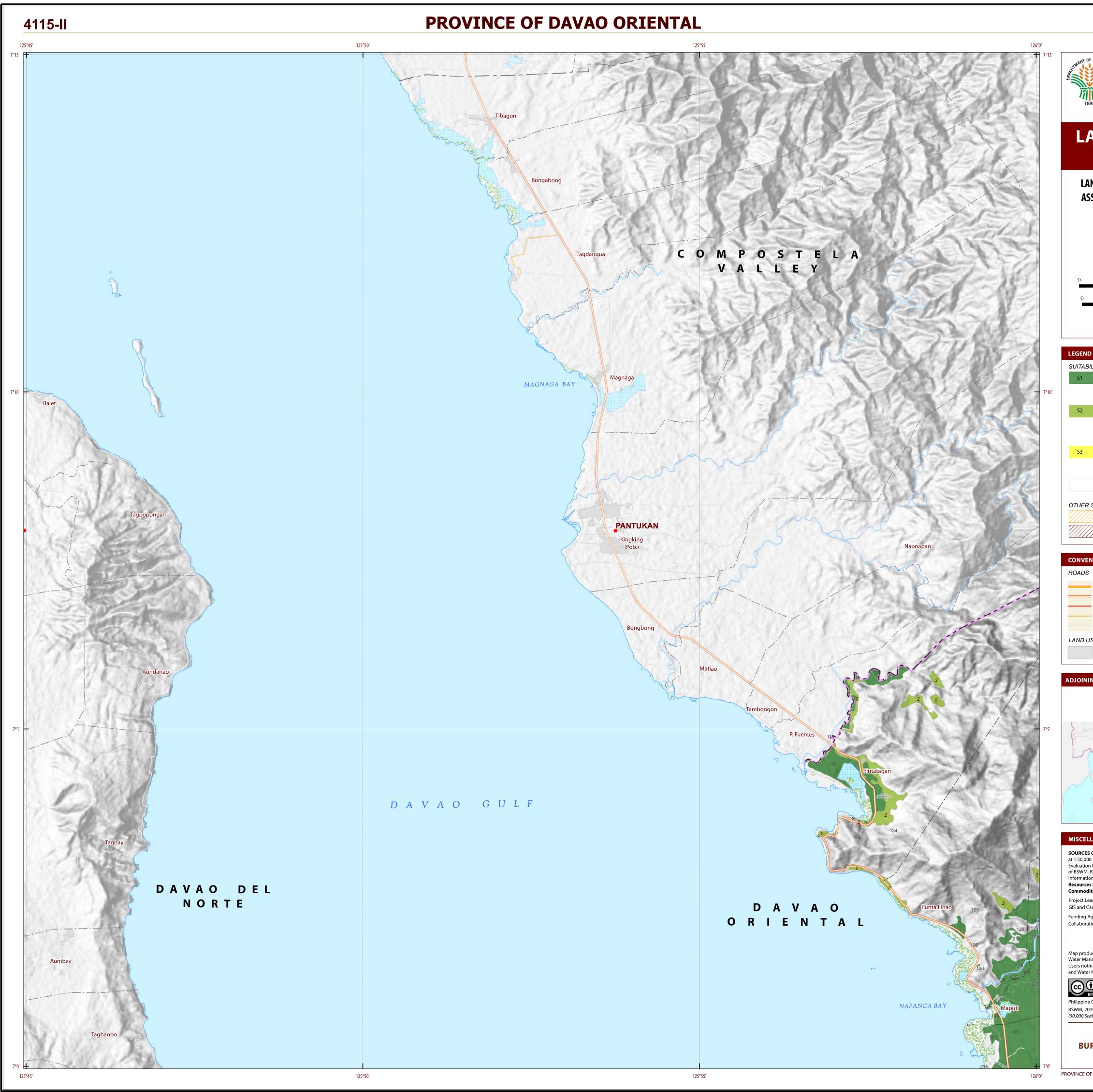


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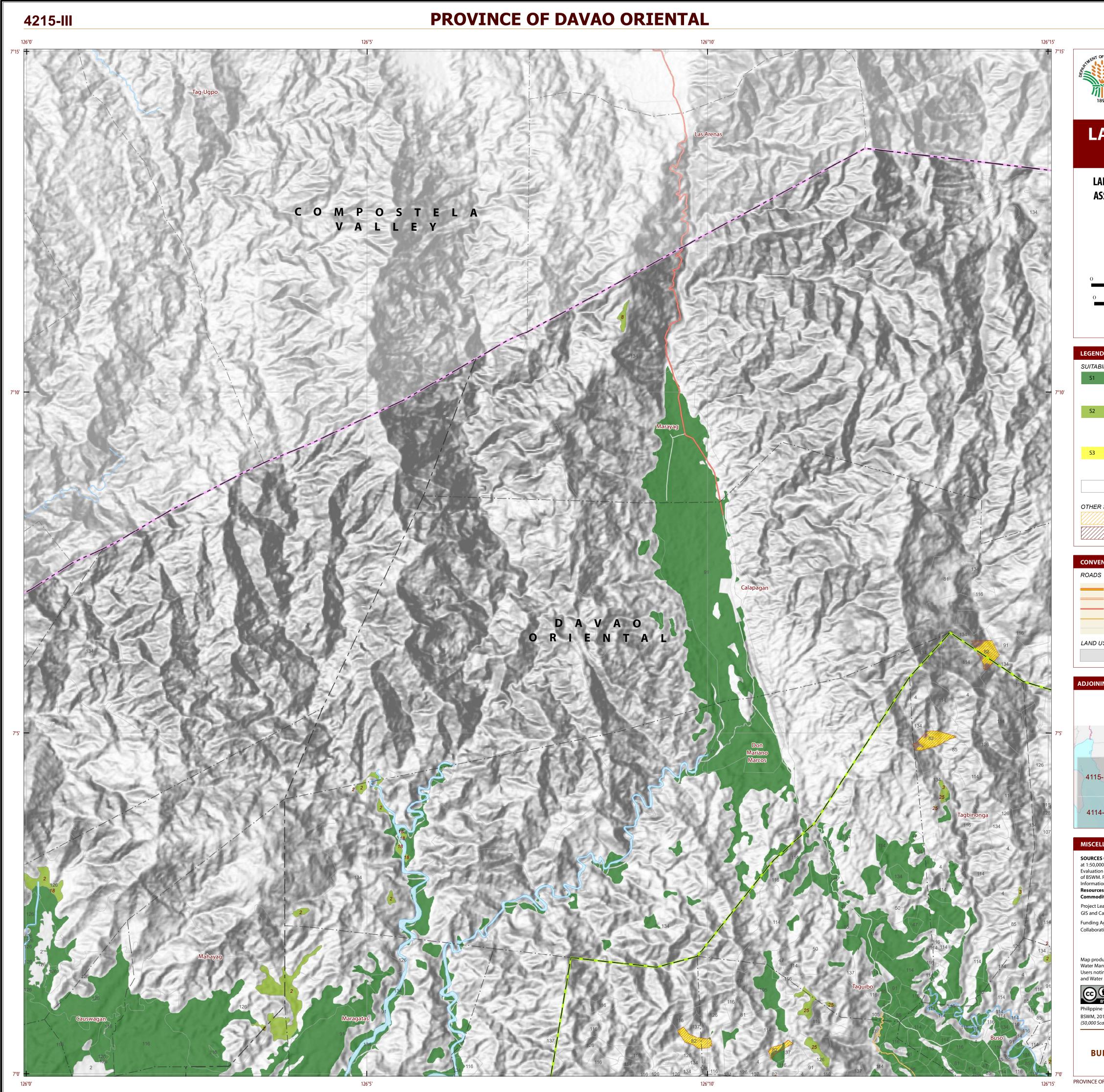


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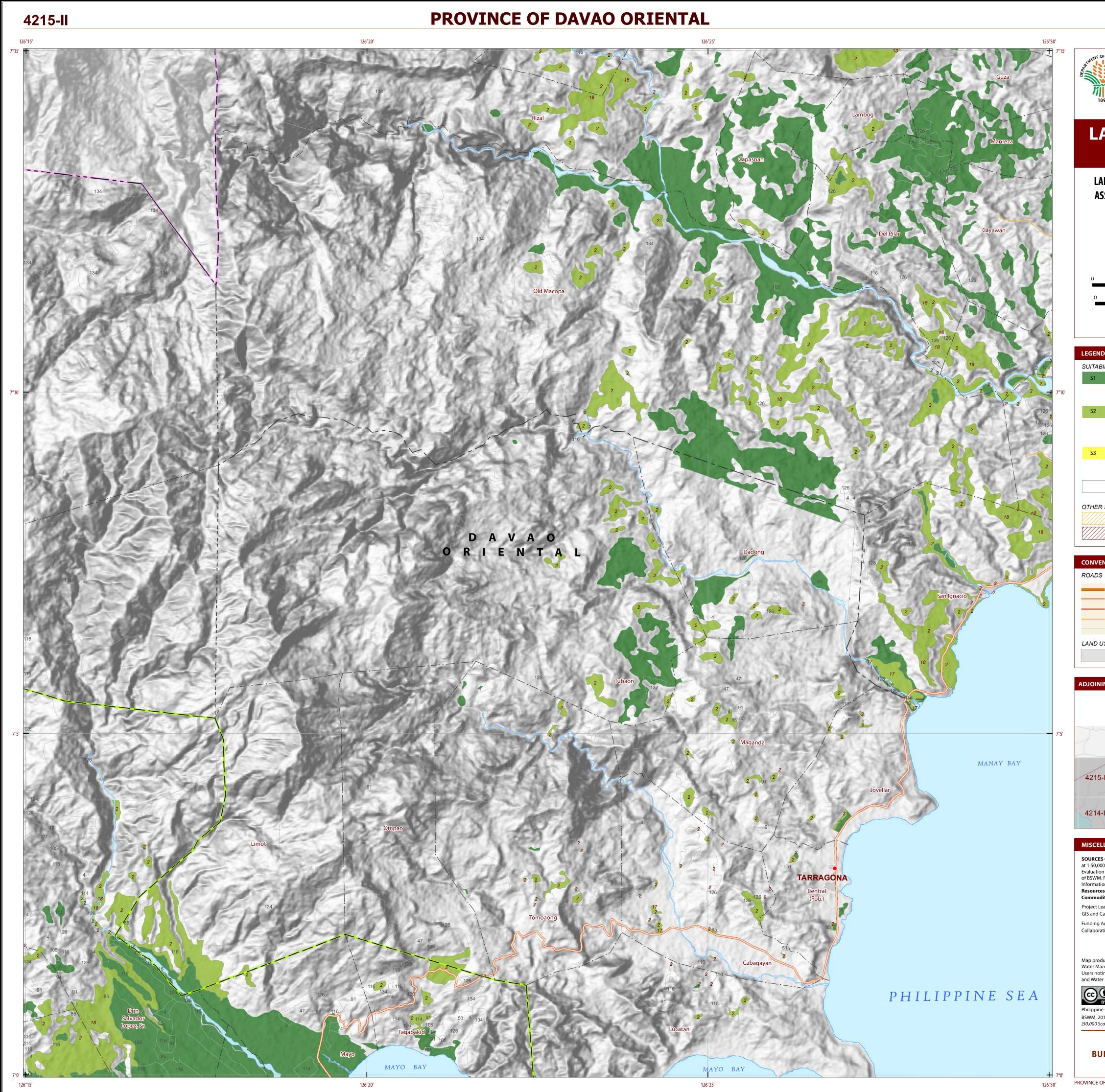
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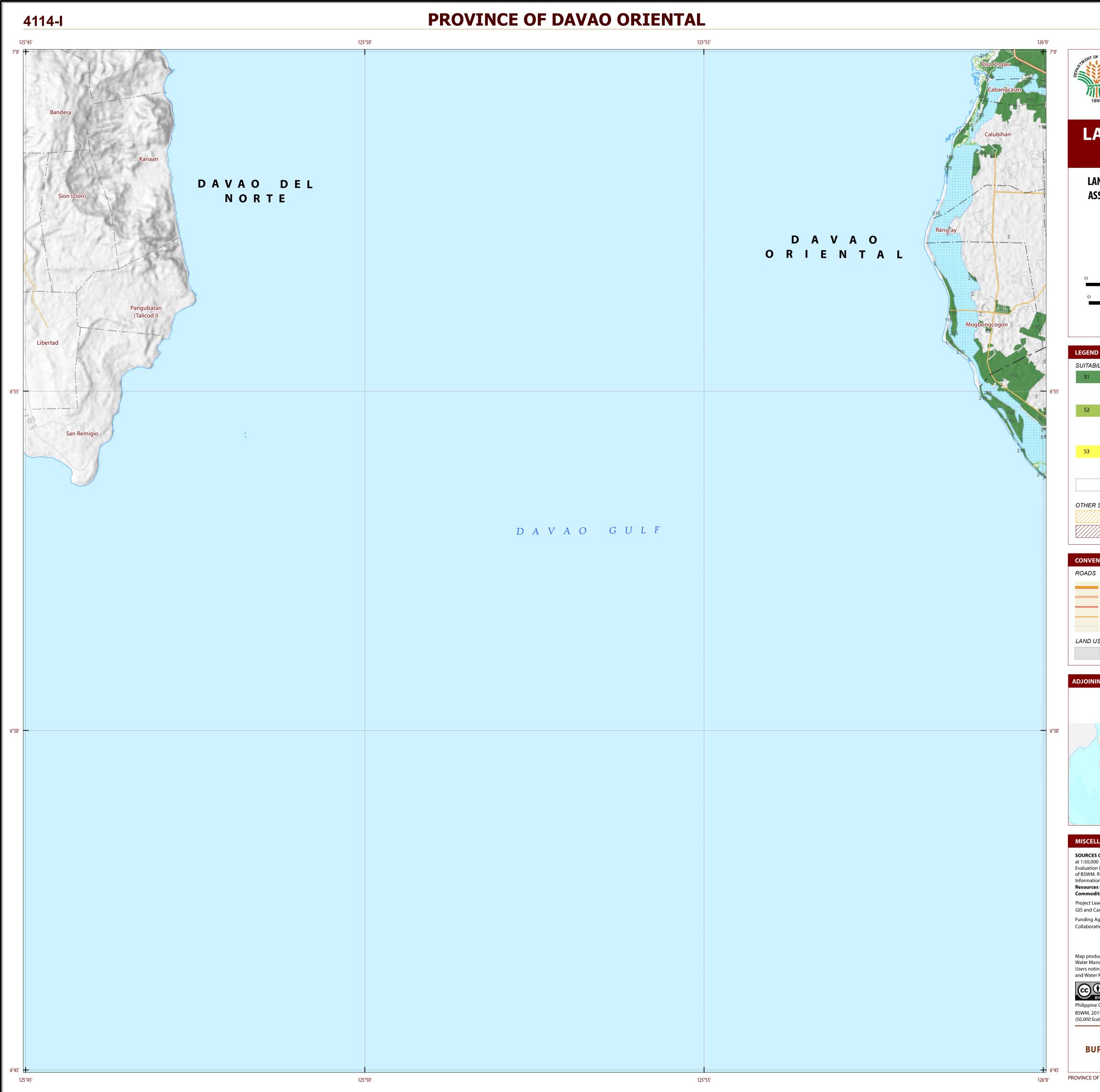


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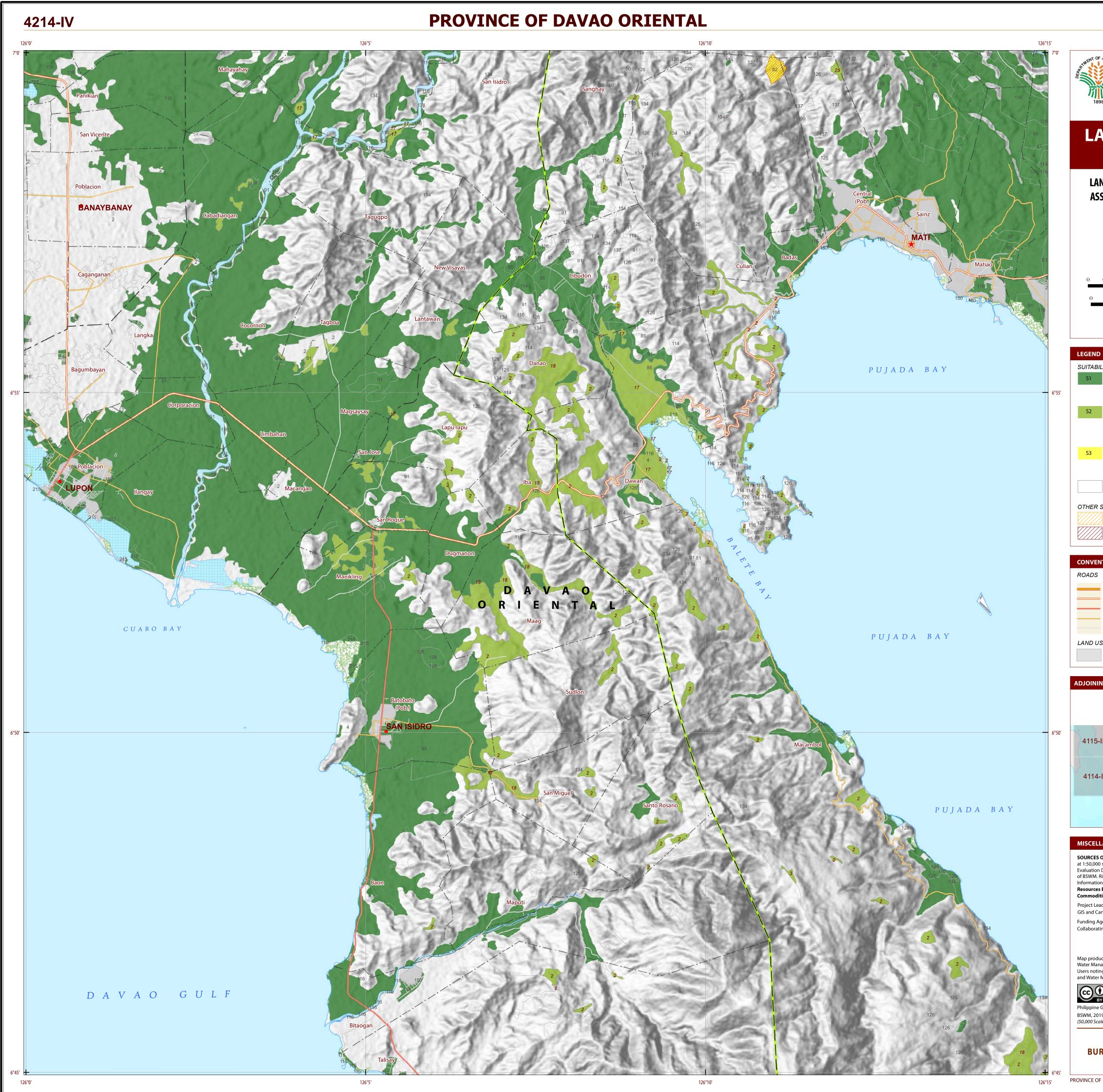


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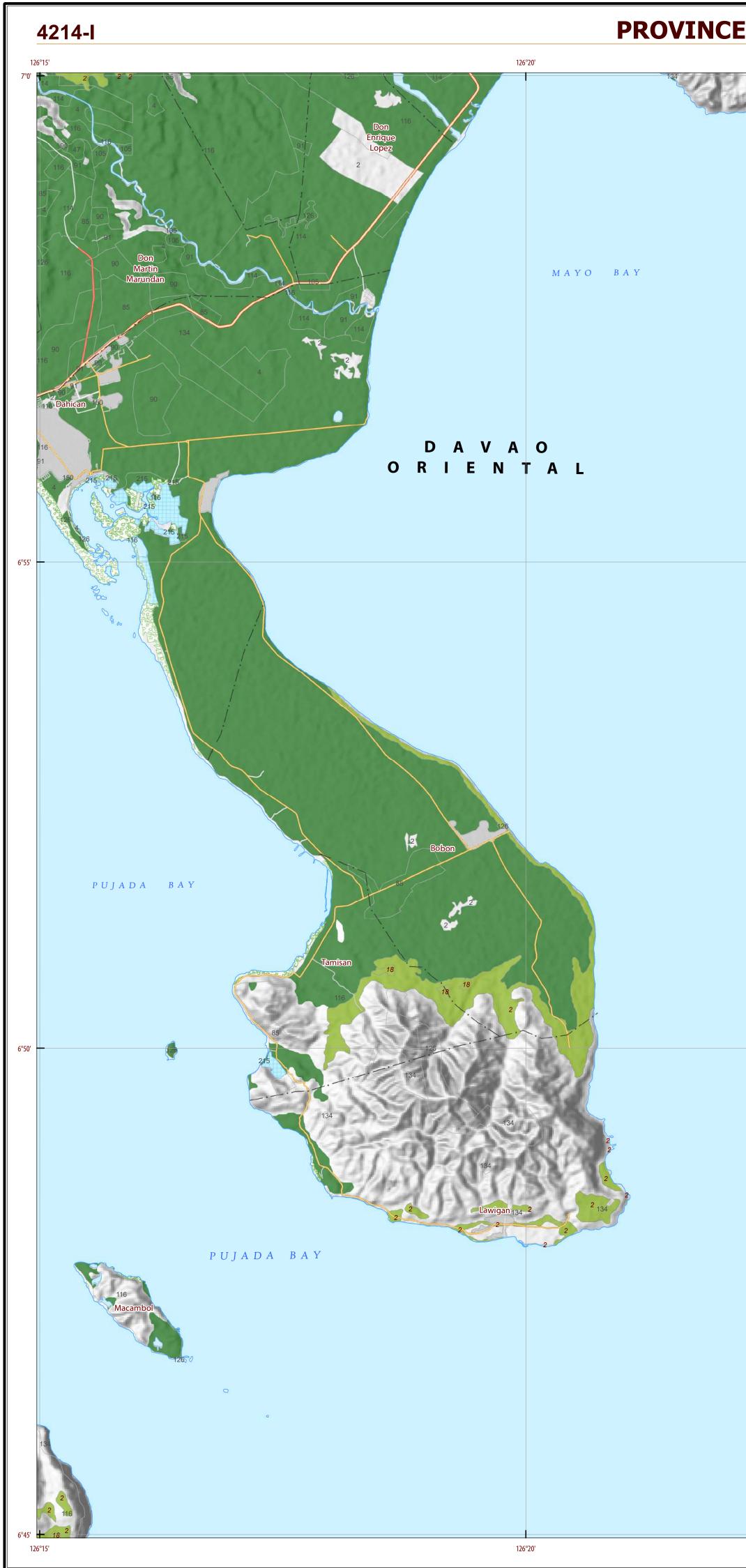
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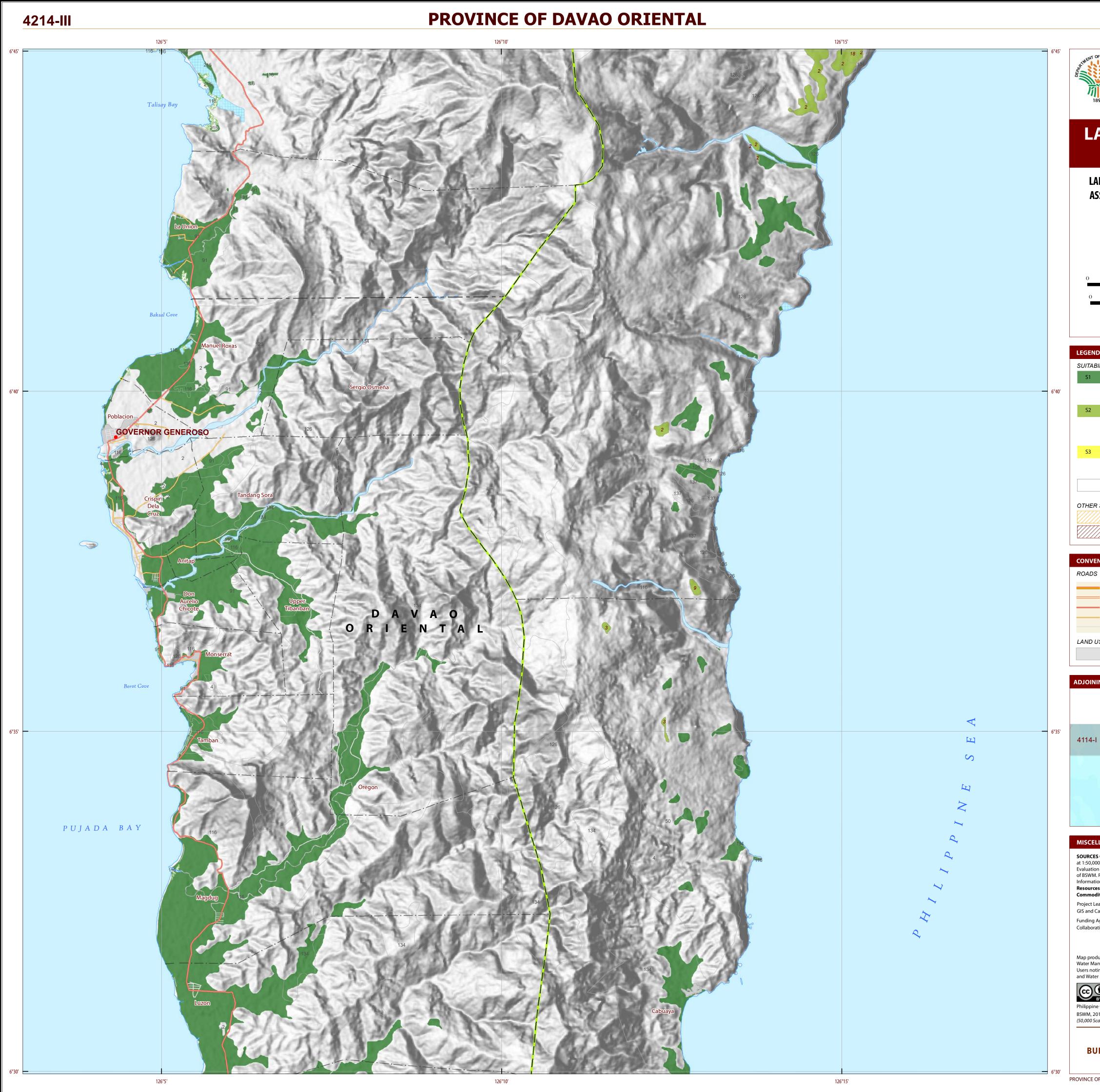


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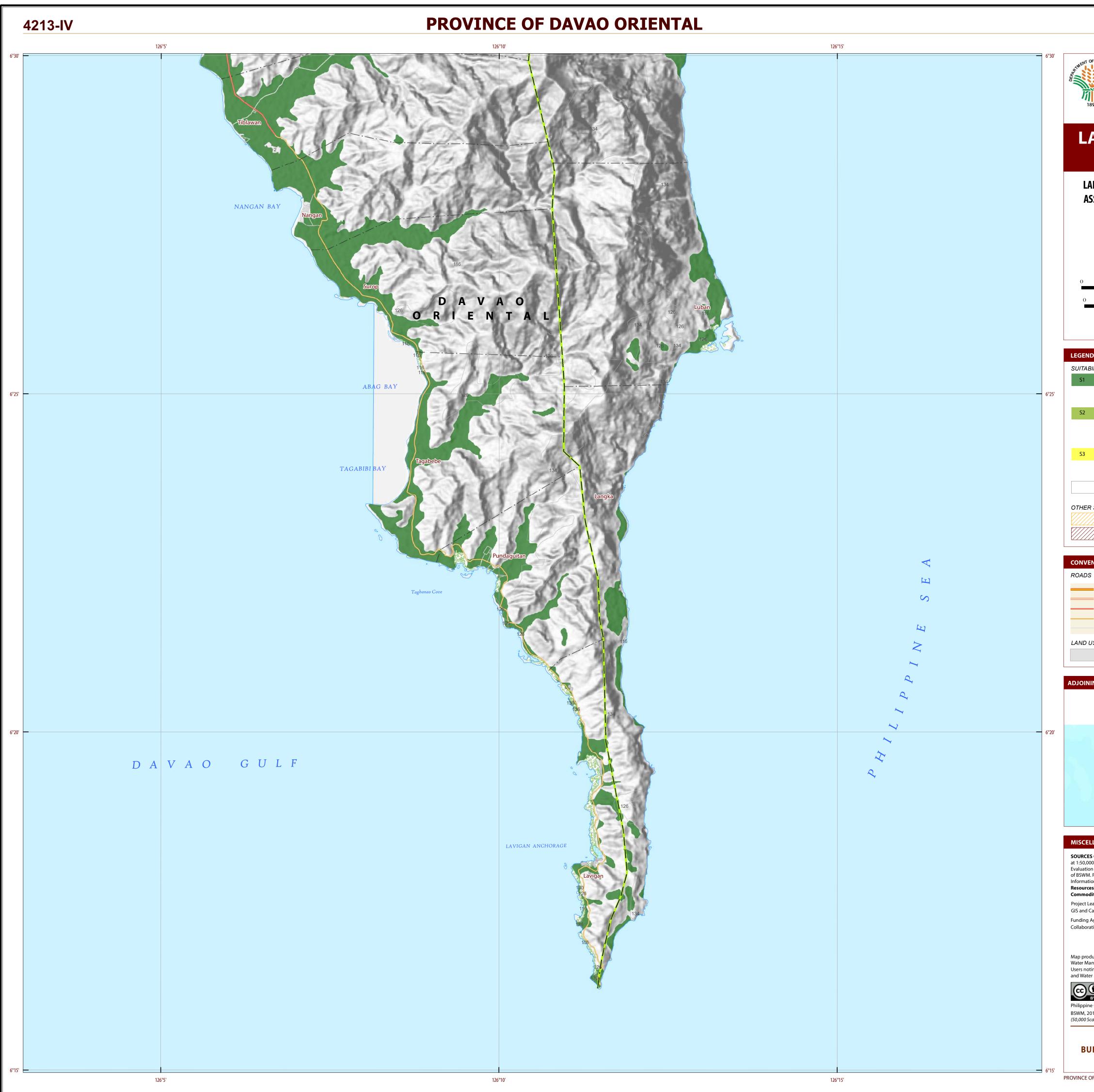


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