

# **PROVINCE OF COMPOSTELA VALLEY**

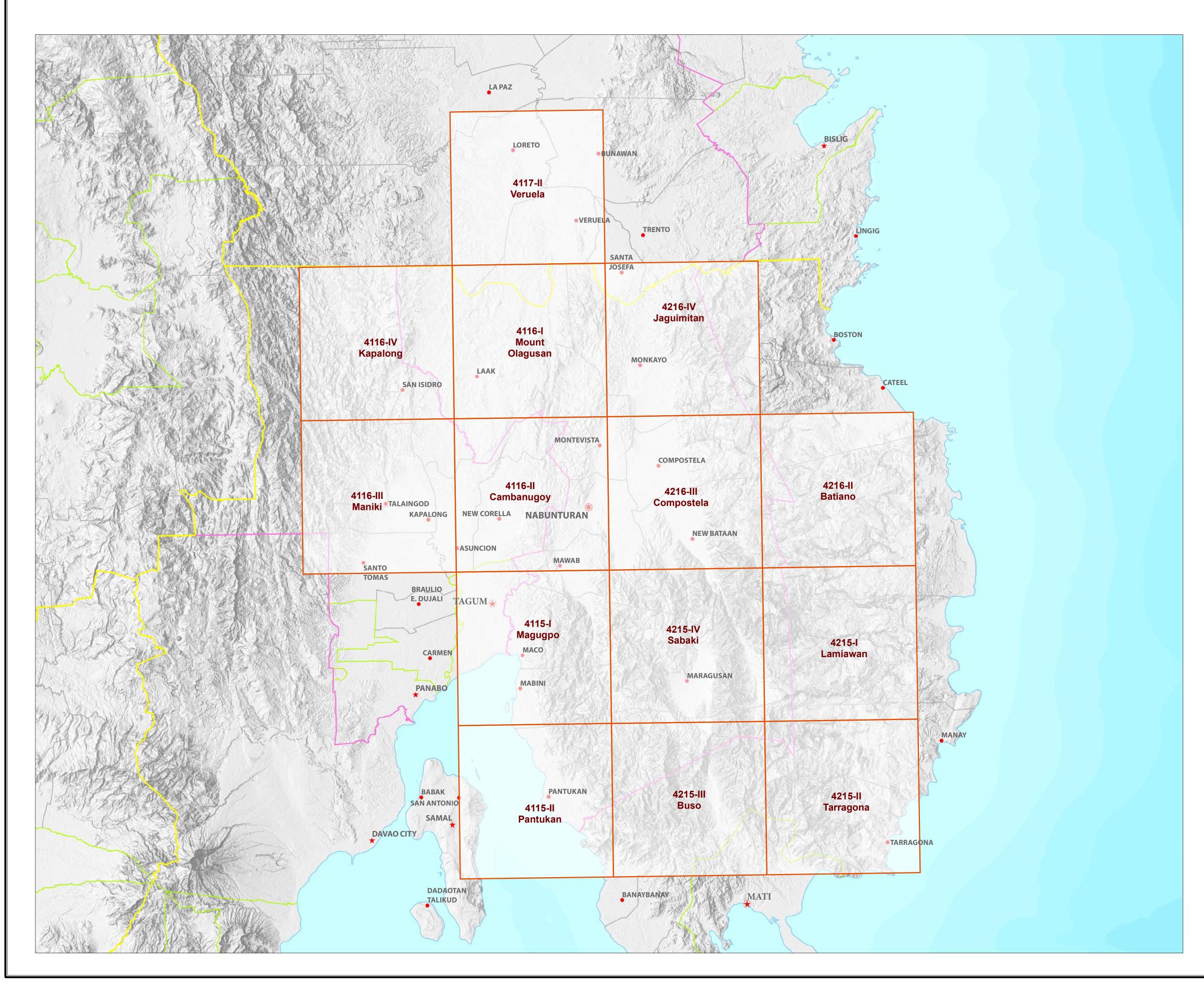
## LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**



# LAND SUITABILITY MAP

# ABACA

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF COMPOSTELA VALLEY



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## LAND SUITABILITY MAP FOR ABACA

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **COMPOSTELA VALLEY, REGION XI**

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

					EXPANSION AREA (Ha)							CONFLICT RESOLUTION AREA (Ha)						тоты			
MUNICIPALITY	EXISTI	NG ABAC	A (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrubl unmana	·	Grass unman	-	Bana	na	Co	rn	Oil pa	alm	Mar	ıgo	Other	crops	TOTAL POTENTIAL EXPANSION AREA (Ha)
	<b>S1</b>	<b>S2</b>	<b>S</b> 3		<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	AREA (Haj
COMPOSTELA	-	-	-	-	1,573	753	6	134	-	18	3,639	121	1,127	6	25	18	-	-	-	28	7,449
LAAK	-	-	-	-	7,420	22,431	874	5,340	724	3,650	675	659	603	511	-	-	-	-	-	-	42,886
MABINI	-	-	-	-	1,872	492	12	72	59	330	1,119	104	-	-	-	-	-	-	-	-	4,060
MACO	-	-	-	-	1,816	2,554	16	166	14	364	1,020	177	221	33	-	-	-	-	5	-	6,386
MARAGUSAN	-	-	-	-	-	14	-	200	-	194	-	94	-	-	-	-	-	-	-	28	530
MAWAB	-	-	-	-	781	2,047	124	548	51	904	783	4	1,180	54	-	-	21	-	-	-	6,497
MONKAYO	-	-	-	-	4,310	10,183	170	1,883	128	811	2,088	151	505	77	42	29	-	-	6	3	20,386
MONTEVISTA	-	-	-	-	456	7,772	29	449	6	180	570	468	7	16	-	-	-	2	2	-	9,954
NABUNTURAN	-	-	-	-	6,066	2,482	46	149	160	545	617	165	63	8	182	-	1	-	6	-	10,491
NEW BATAAN	-	-	-	-	5,008	914	165	223	-	50	116	-	278	28	-	-	-	_	-	-	6,782
PANTUKAN	-	-	-	-	5,377	1,430	4	205	49	308	1,120	258	122	1	-	-	29	21	-	5	8,930
TOTAL	-	-	-	-	34,678	51,072	1,446	9,369	1,189	7,355	11,748	2,202	4,105	735	248	47	52	23	19	64	124,352

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

### ACRONOMIC REQUIREMENT OF ABACA PRODUCTION

S1	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		,
01	<8	>50	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD, SPD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	2001-4500	II, III, IV		
aca S2	8 - 30	30 - 50	FSL, L, SiL, SL	PD,VPD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1500	1000-2000	I, II		
S3	>30	< 30	S, LS, CSL	ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500			
(%)		SOIL DRAINA	AGE		SOIL REACTION	(pH)		SOIL TEXT	URE			L		
<ul> <li>level to gently slopi</li> <li>gently sloping to un</li> <li>undulating to rollin</li> <li>rolling to moderate</li> <li>steep</li> <li>very steep</li> </ul>	dulating g	WD - w MWD - n SPD - s PD - p	excessively drained well drained moderately well drain somewhat poorly drai poorly drained very poorly drained		4.5 - 5.0       - very         5.1 - 5.5       - stron         5.6 - 6.0       - media         6.1 - 6.5       - slight         6.6 - 7.2       - neut			LS - CSL - SL - <b>Medium</b>	- sand - loamy sand - coarse sandy loam - sandy loam		SiC - C -	sandy clay silty clay clay heavy clay		
EPTH (cm)		SURFACE IM	PEDIMENT			ly alkaline lerately alkaline			- fine sandy loam - loam					
- very shallow		ROCK OUTCR	OPS			ngly alkaline			- silt loam					
- shallow			none - few						- clay loam					
) - moderately deep			common						- silty clay loam					
D LIMITATION	<b>NS DESCRIP</b>			TIONS										
	500m			l to poorly draine			moderately deep (3	30 - 100cm)						
< 500m or > 2500m			y poorly drained or ex		Shi		<b>P</b> 1 (		E3 - Severe					
<b>/TOPOGRAPHY</b> Undulating to moderatel Steep to very steep	y steep	<b>SOIL TEXTU</b> Tc - Coar	<b>URE</b> rse texture		RC Rc					ate seasonal floodi seasonal flooding	0			
			CODE LIMITAT			N CODE	LIMITATION	CODE		CODE	E LA	NDUSE	CODE	LANDUSE
LIMITATION	11 T2-E3-Rc		21 T2-El2-Sh2-R		T2-Sh2-Rc3	41	T3-El2-E3-Sh3-Rc2		T3-El2-E3	3	Upland rice			Grassland
El2	12 00 00 0		// IF/GE/CK/P	c3 <u>32</u>	T3	42	T3-El2-E3-Sh3-Rc3	3 52	T3-El2-E3-Rc3	4	Corn		127	Pasture
El2 El2-E2-Sh2-Rc3	12 T2-E3-Rc 13 T2-F3-Sh		22 T2-El2-Sh2-R 23 T2-El3	22	T3-F3	43	T3-F13			ζ Ω1			134	Shruhs unmanaged
El2 El2-E2-Sh2-Rc3 El2-Sh2-Rc2	13 T2-E3-Sh	2-Rc2	23 T2-El3	33 2-Rc2 34	T3-E3 T3-E3-Rc2		T3-El3 T3-El3-E3-Sh3-Rc2	53	T3-El2-E3-Sh3-Rc		Coffee			Shrubs, unmanaged Rubber (T)
El2 El2-E2-Sh2-Rc3	13 T2-E3-Sh	2-Rc2	23 T2-El3	2-Rc2 34	T3-E3 T3-E3-Rc2 T3-E3-Sh3-Rc2	44	T3-El3 T3-El3-E3-Sh3-Rc2 T3-El3-E3-Sh3-Rc3	53 2 54		82		nansi	137	Shrubs, unmanaged Rubber (T) Falcata
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<b>TION</b> 500 - 1000m or 2000 - 2 < 500m or > 2500m		<b>TION ANI</b> SOIL DRAIN D2 - Some D3 - Very	<b>NAGE</b> newhat poorly drained y poorly drained or ex	l to poorly drained	ł Shi Shi	3 - Very shallo	moderately deep (3 ow (< 30cm)		E3 - Severe	ate erosion				

### **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.

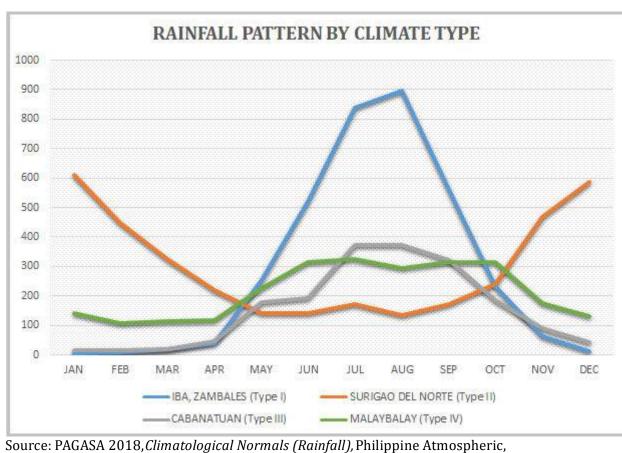
### Moderately Suitable (S2)

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
- **YPE 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.

ompostella Valley is classified as climatic Type IV.



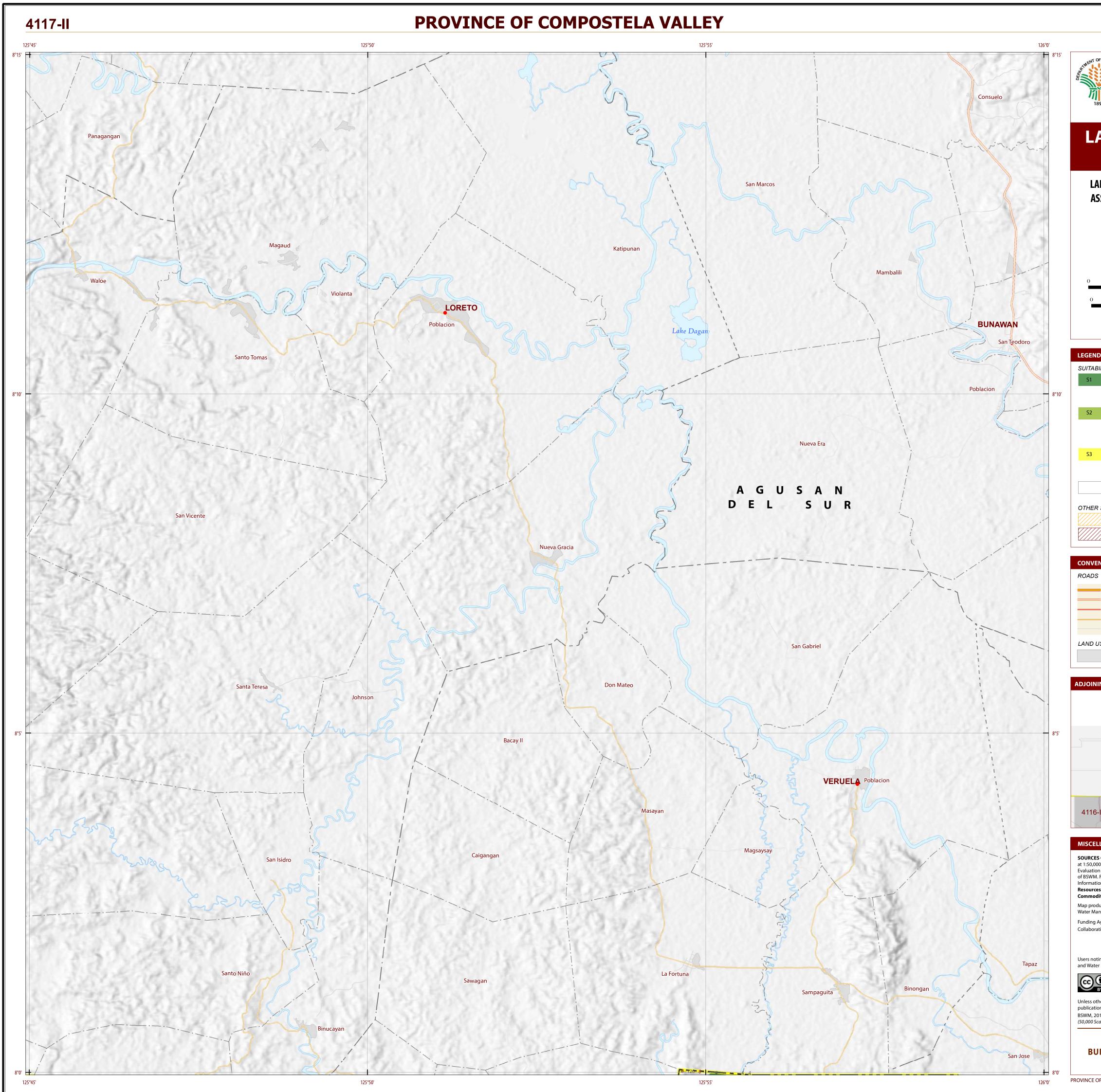
Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>.



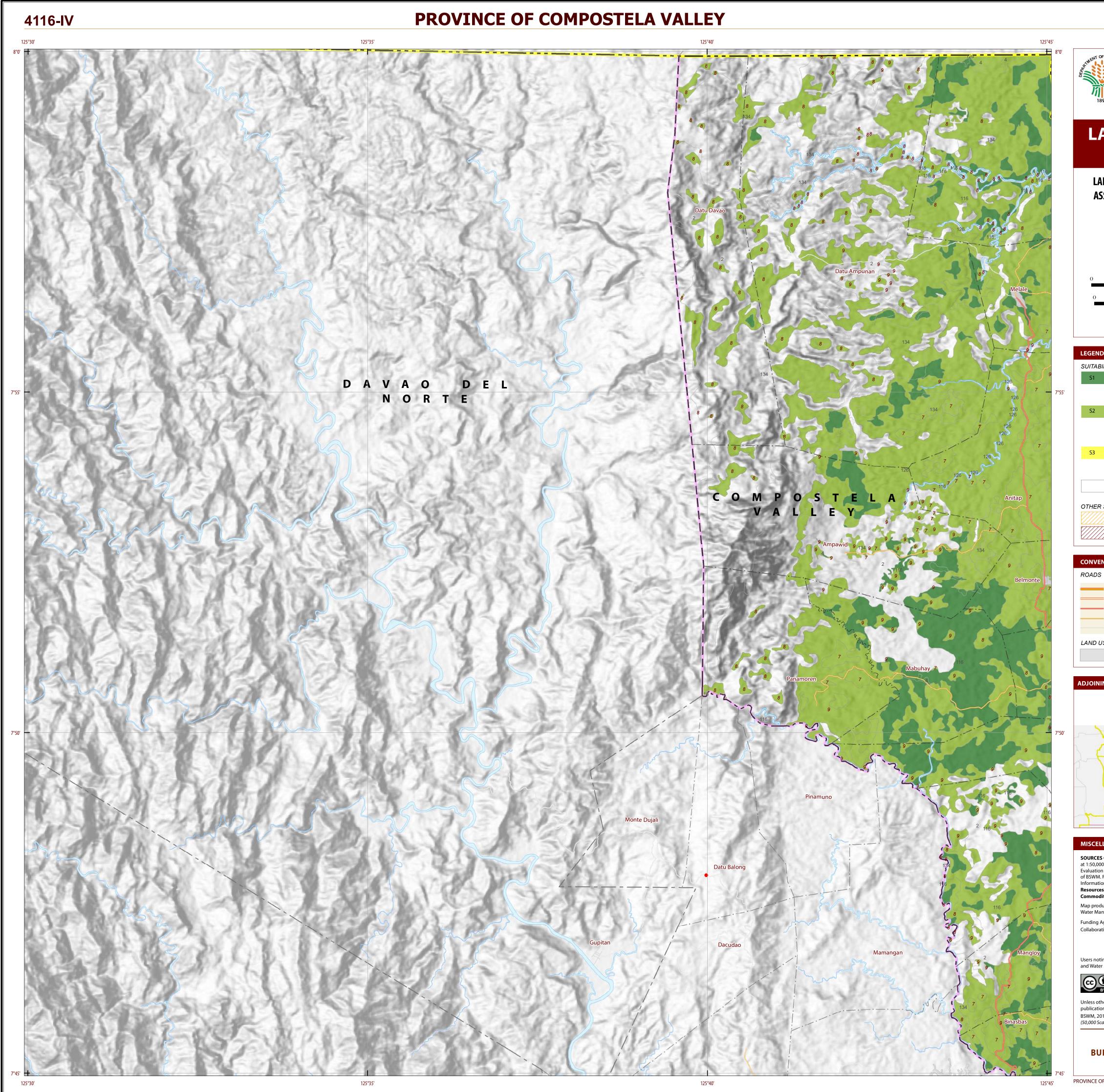
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

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.

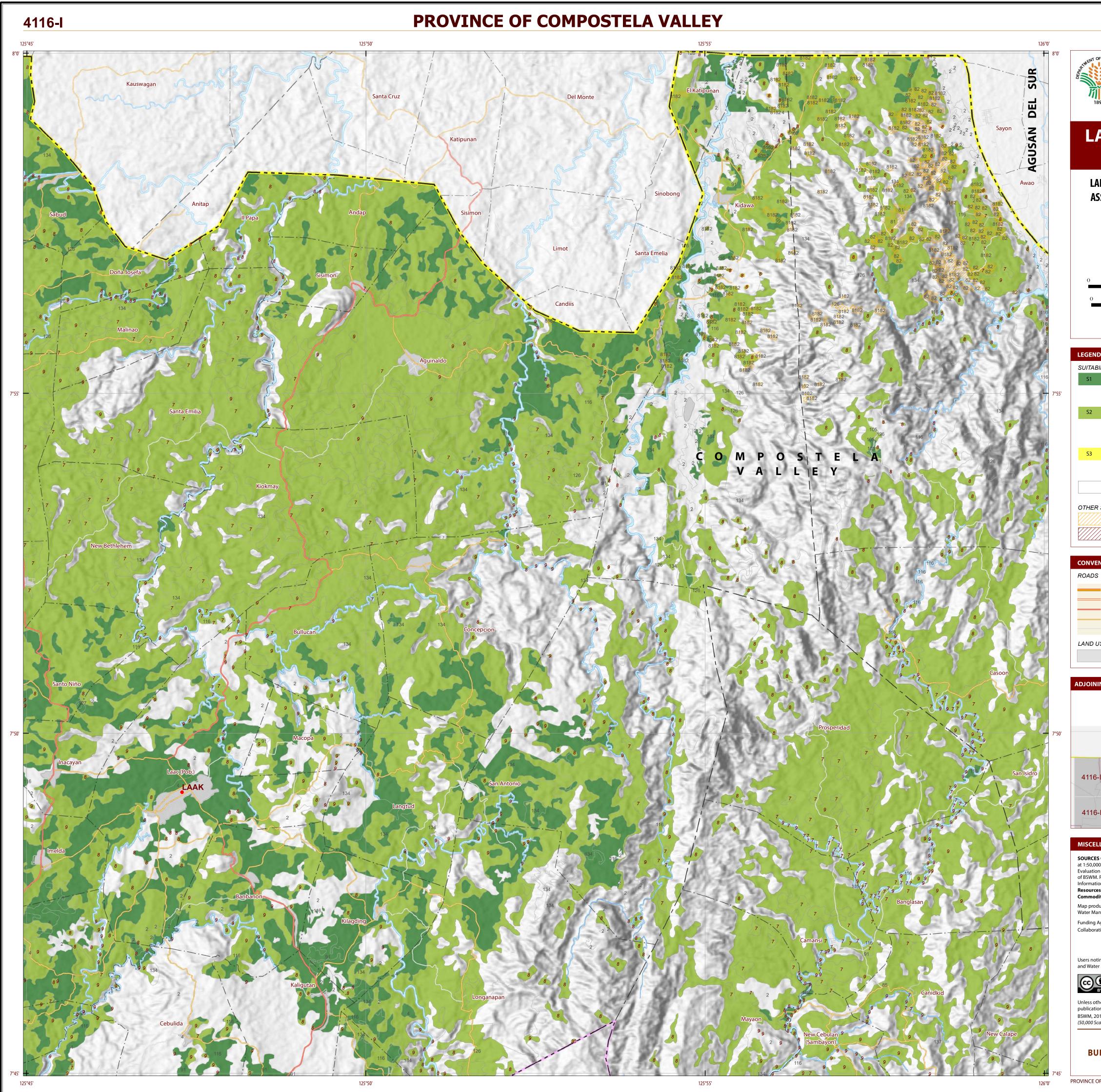
- period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
- **TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.



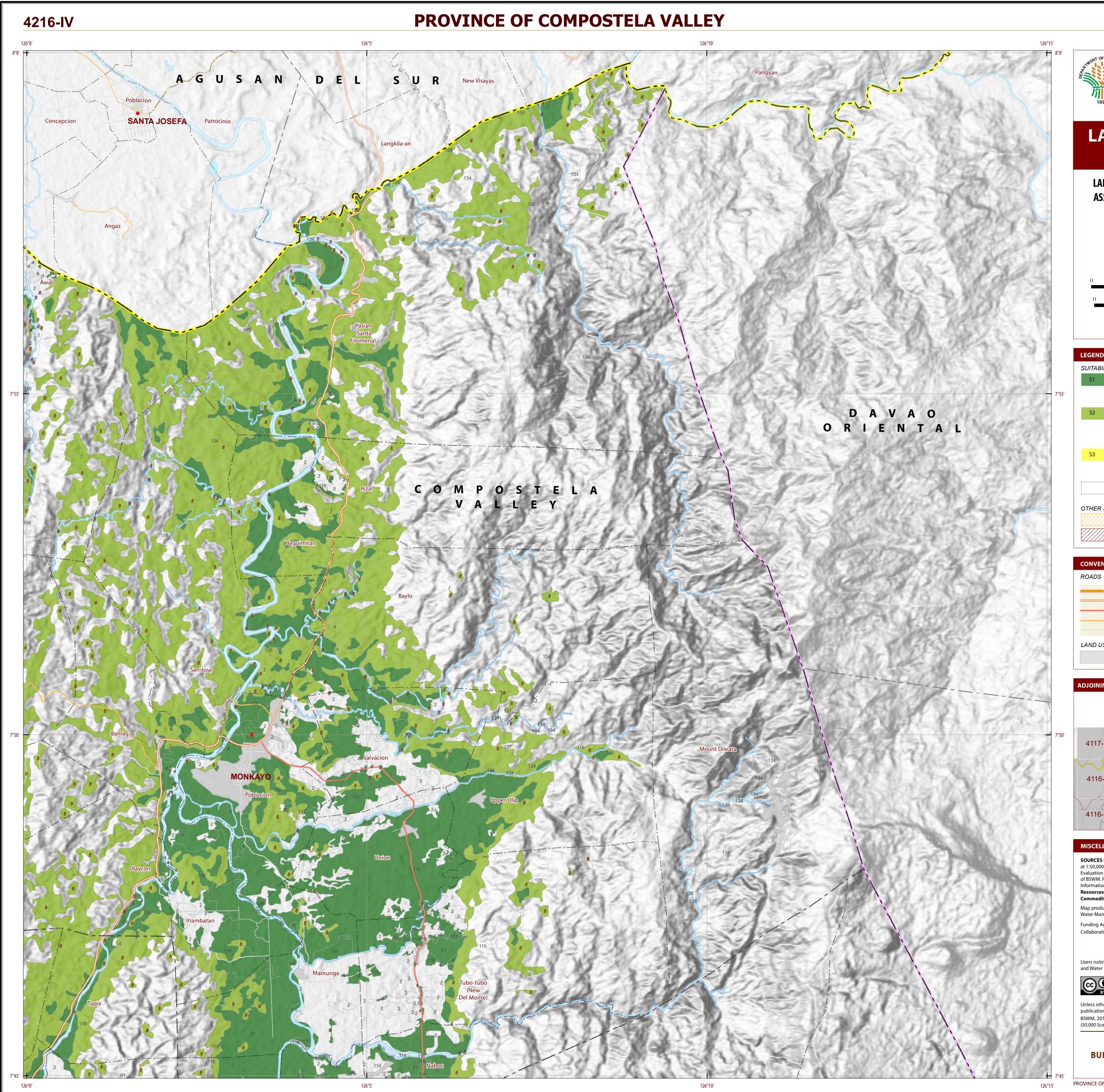
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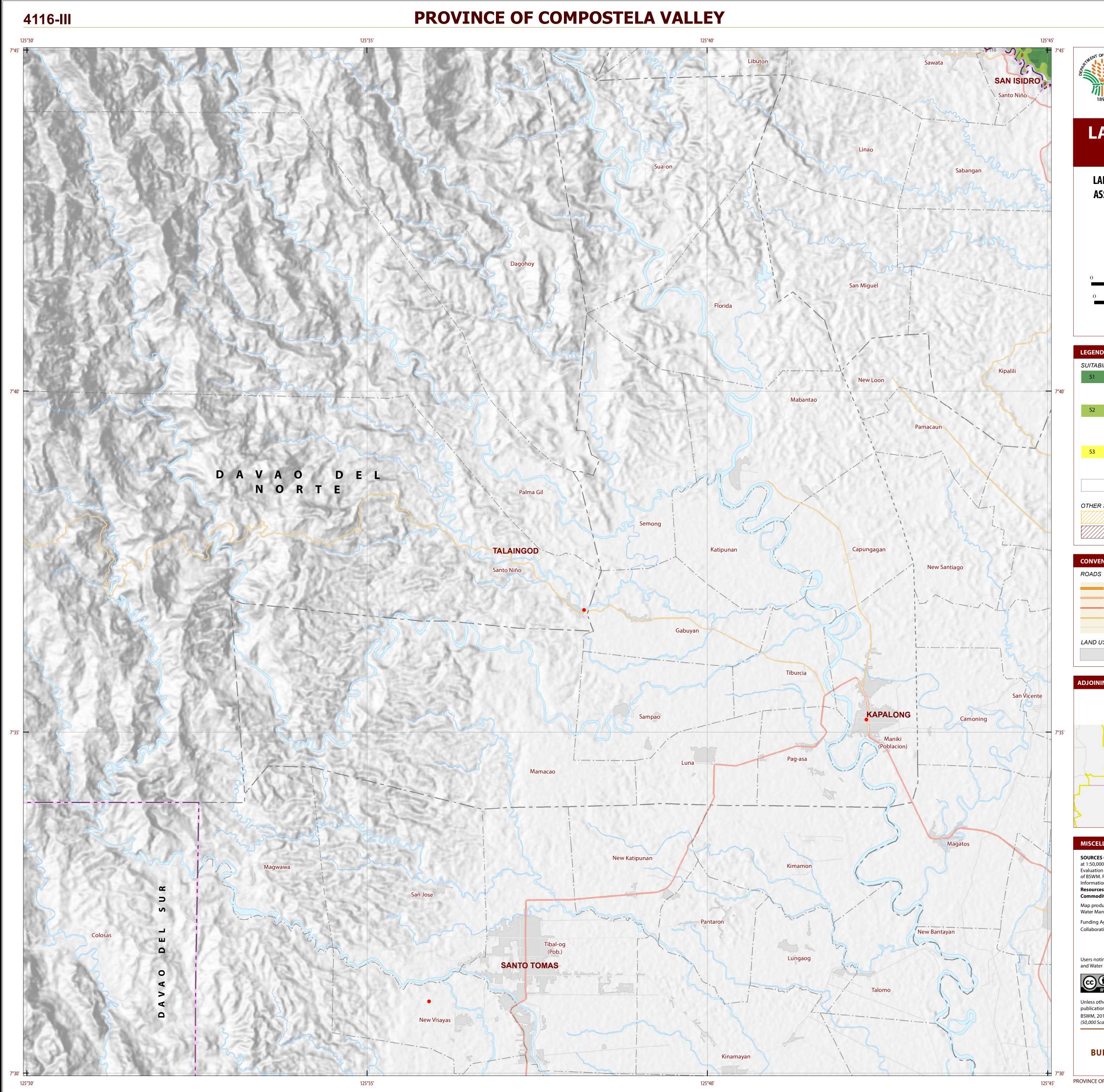
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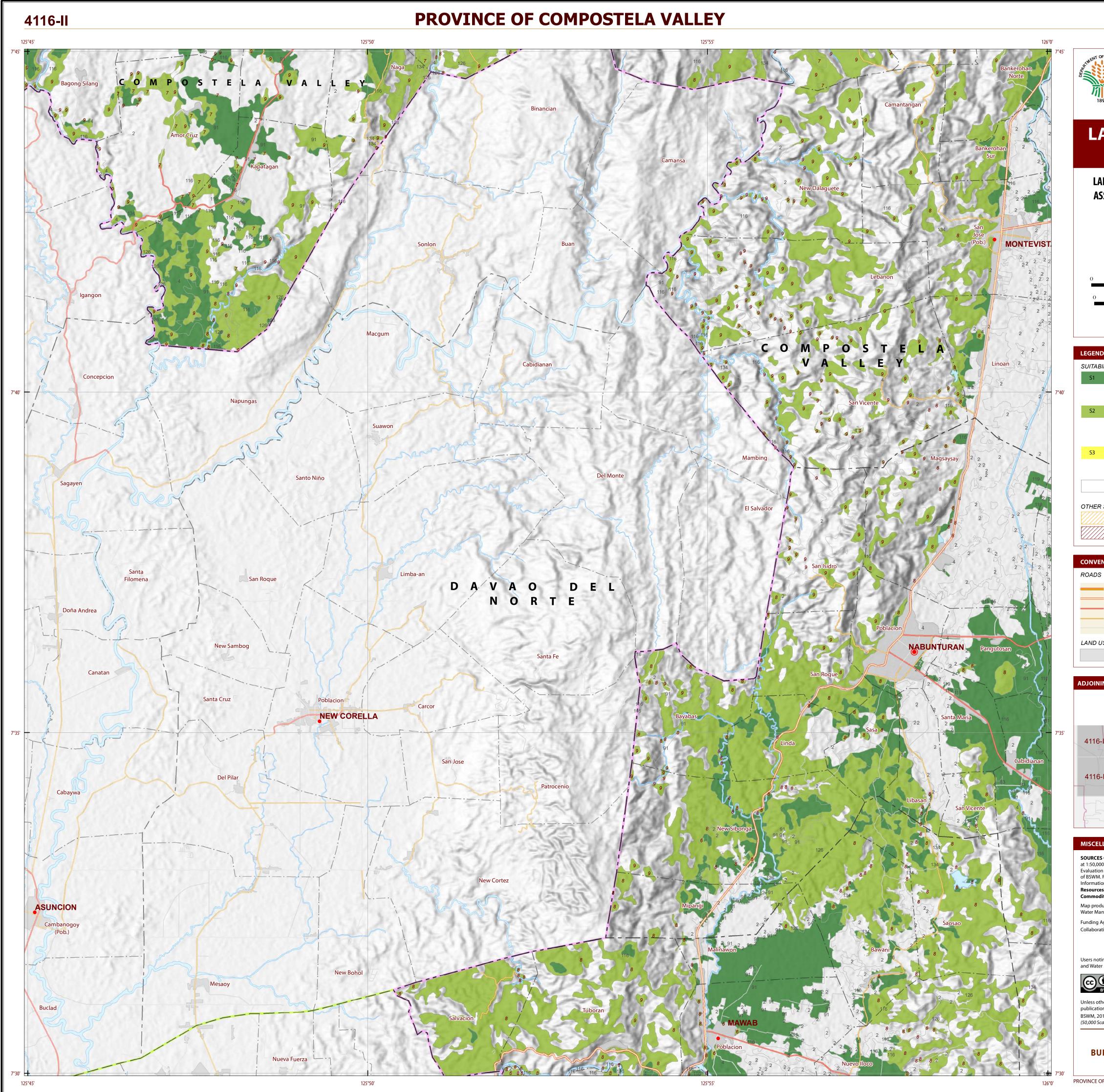
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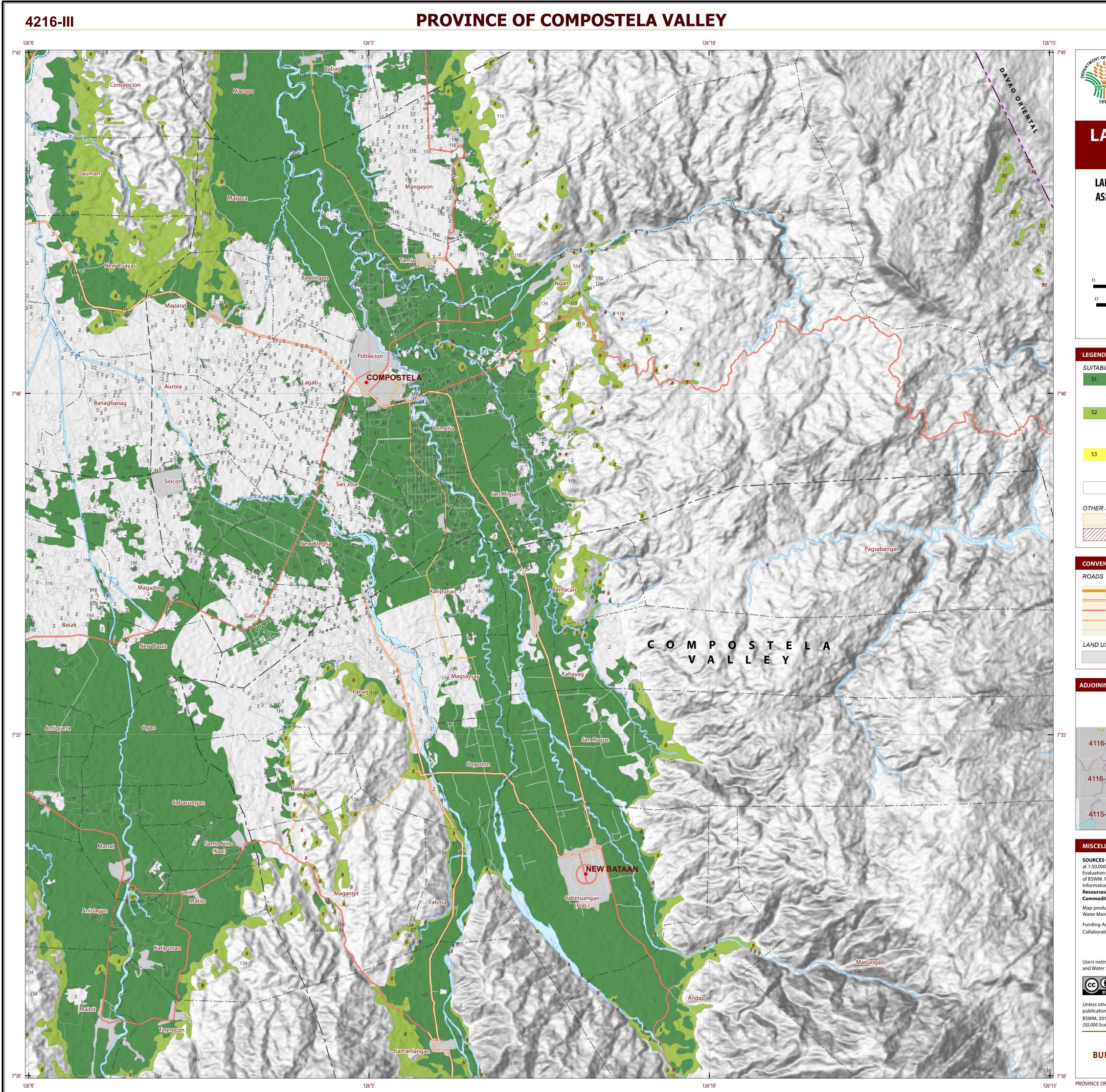
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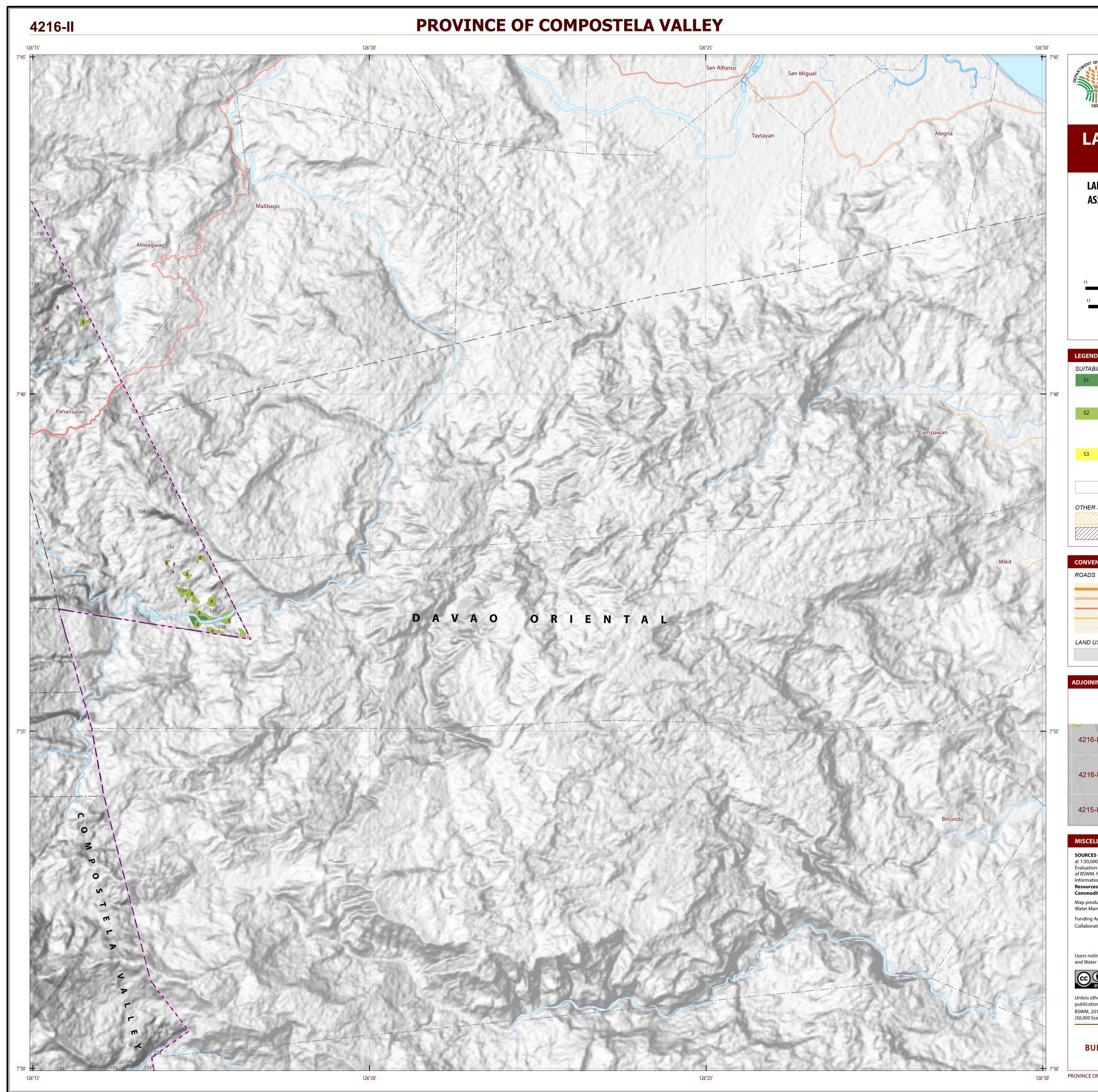
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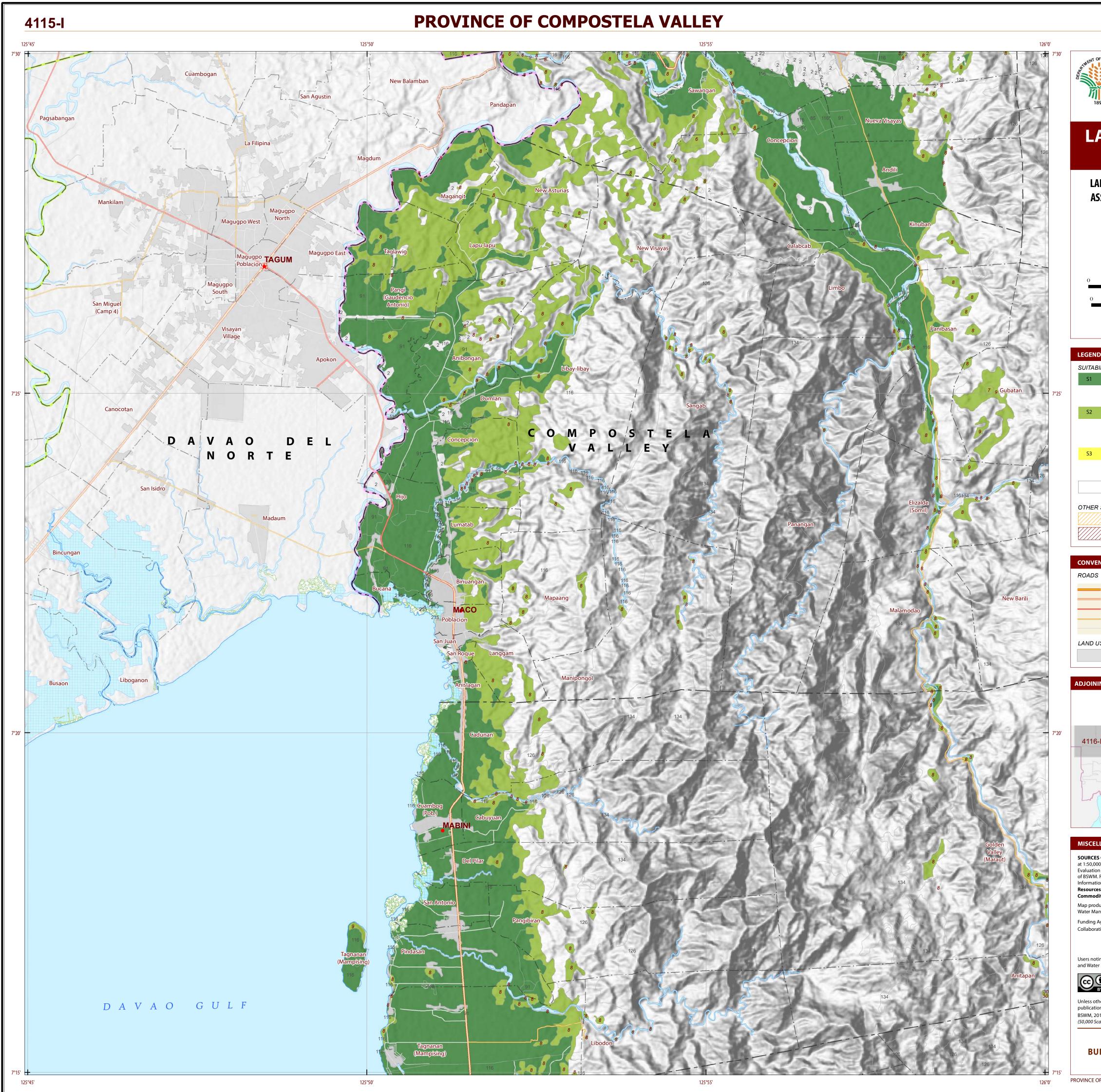
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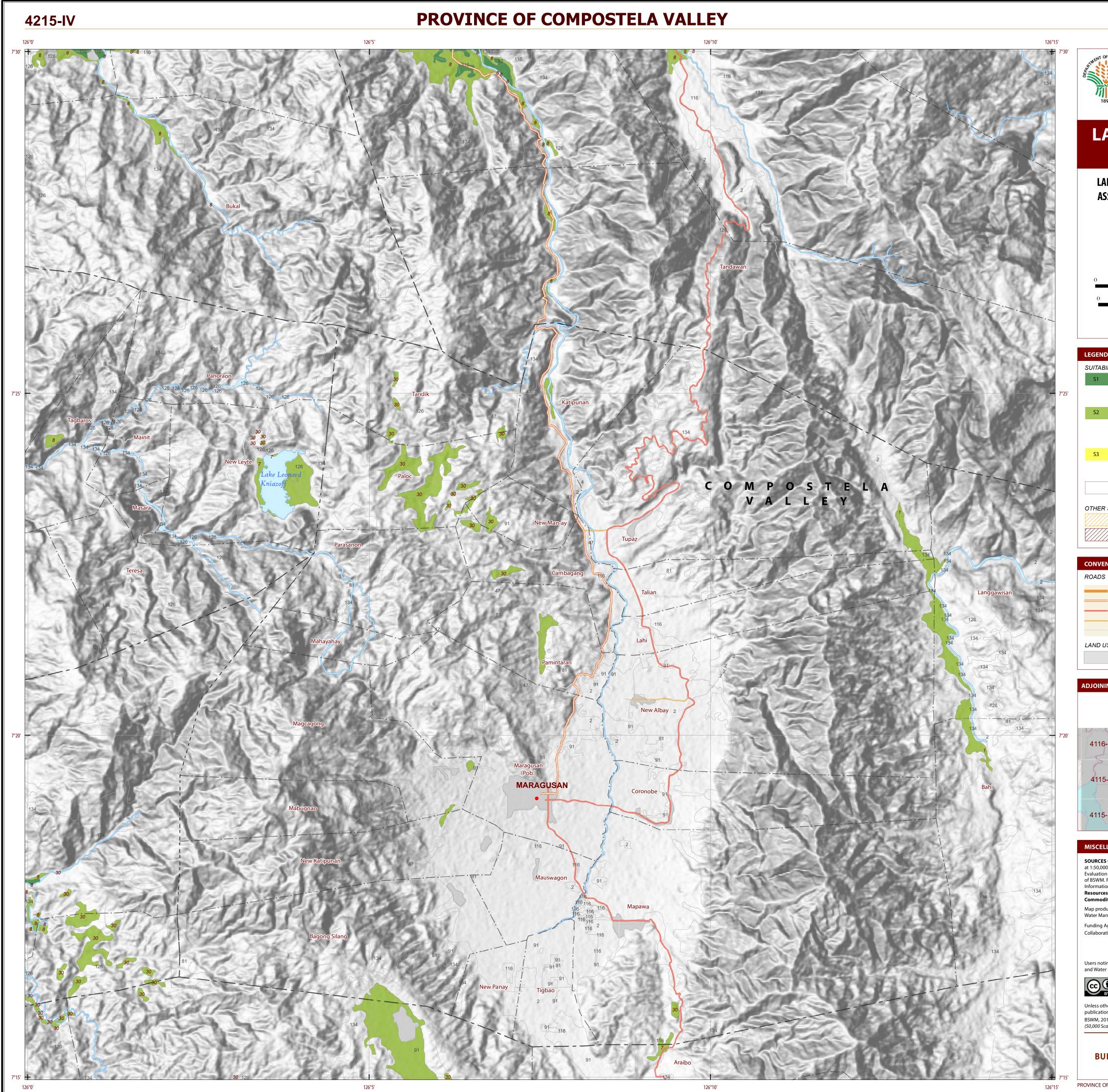
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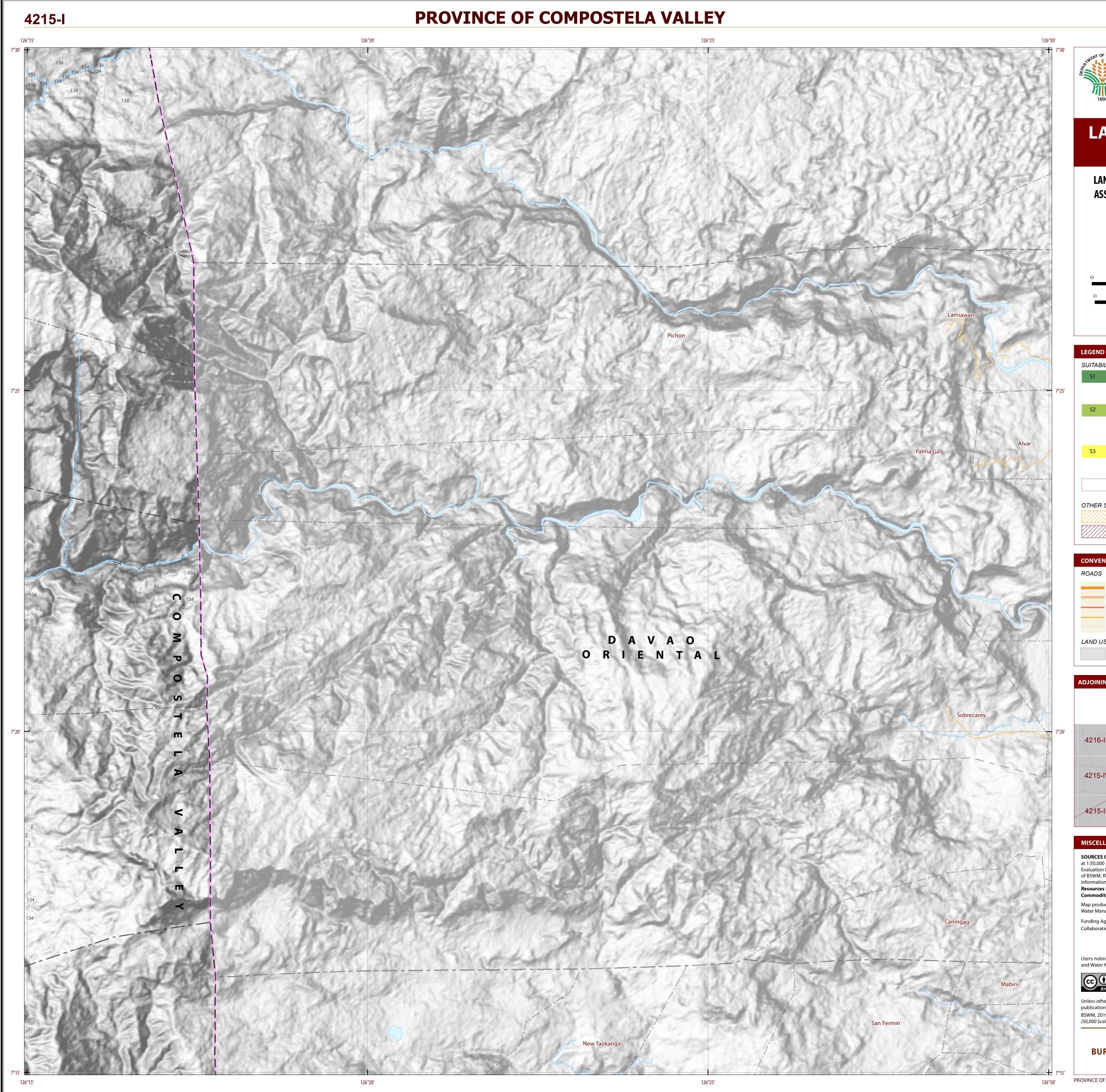
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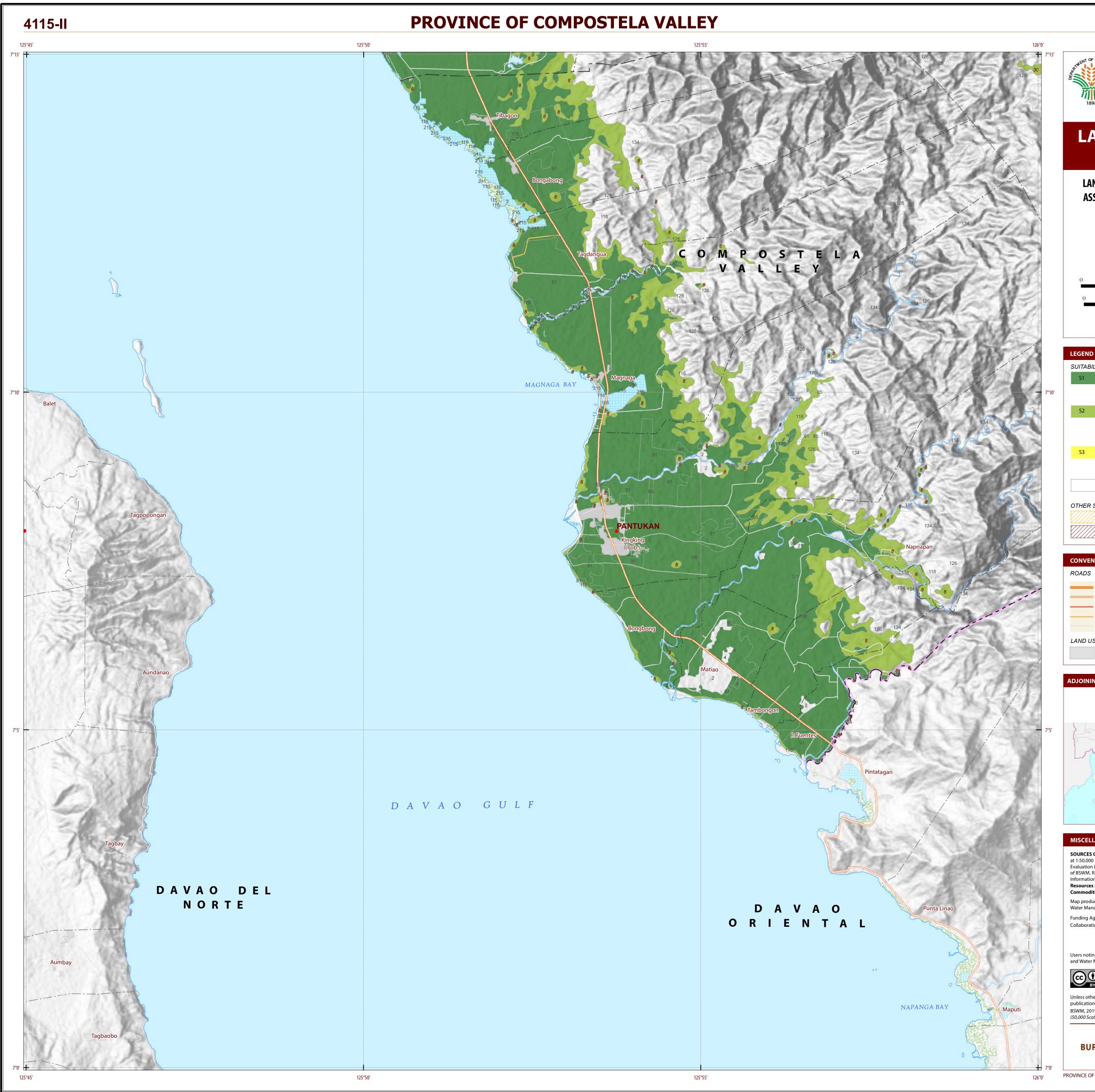
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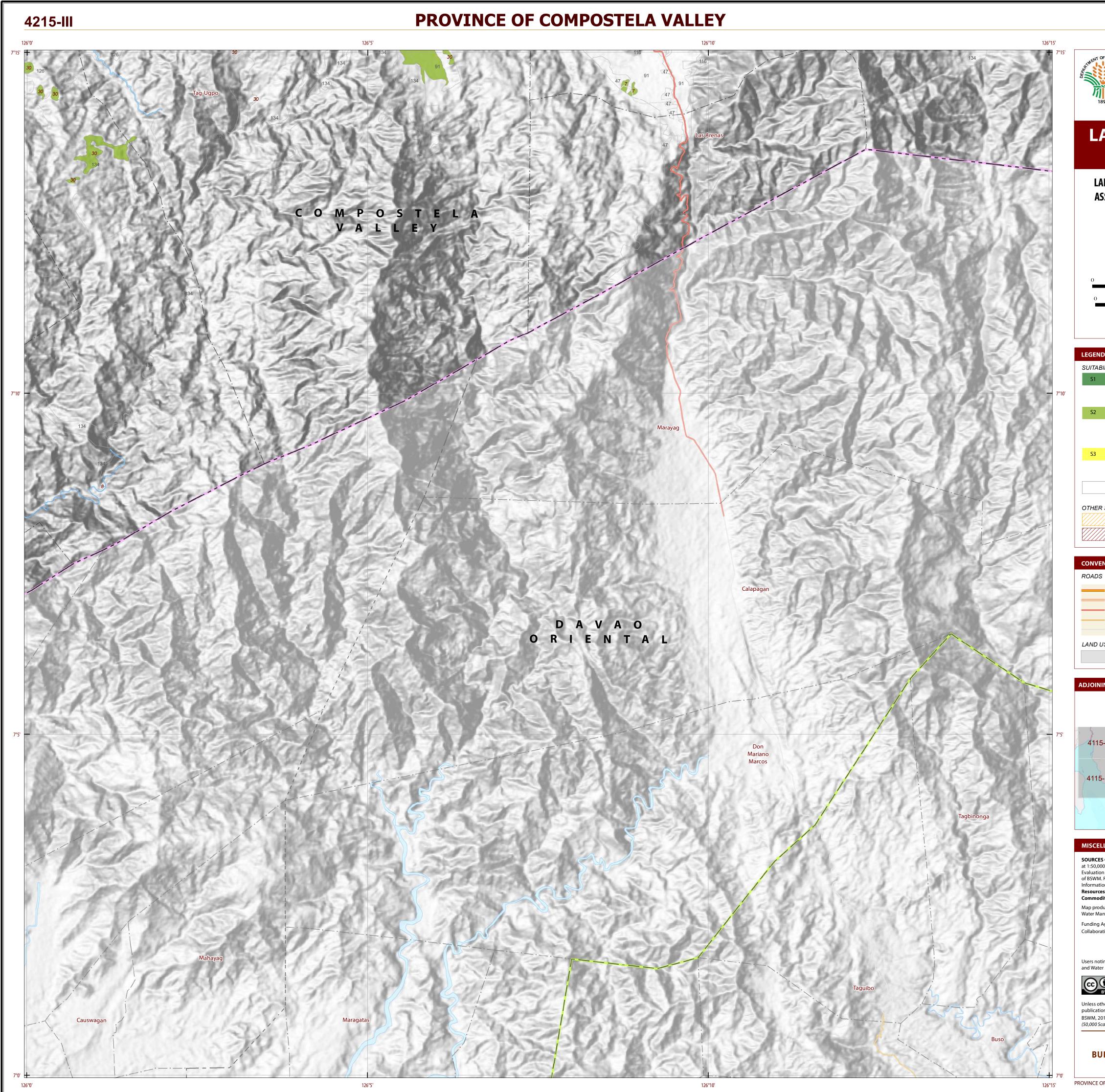
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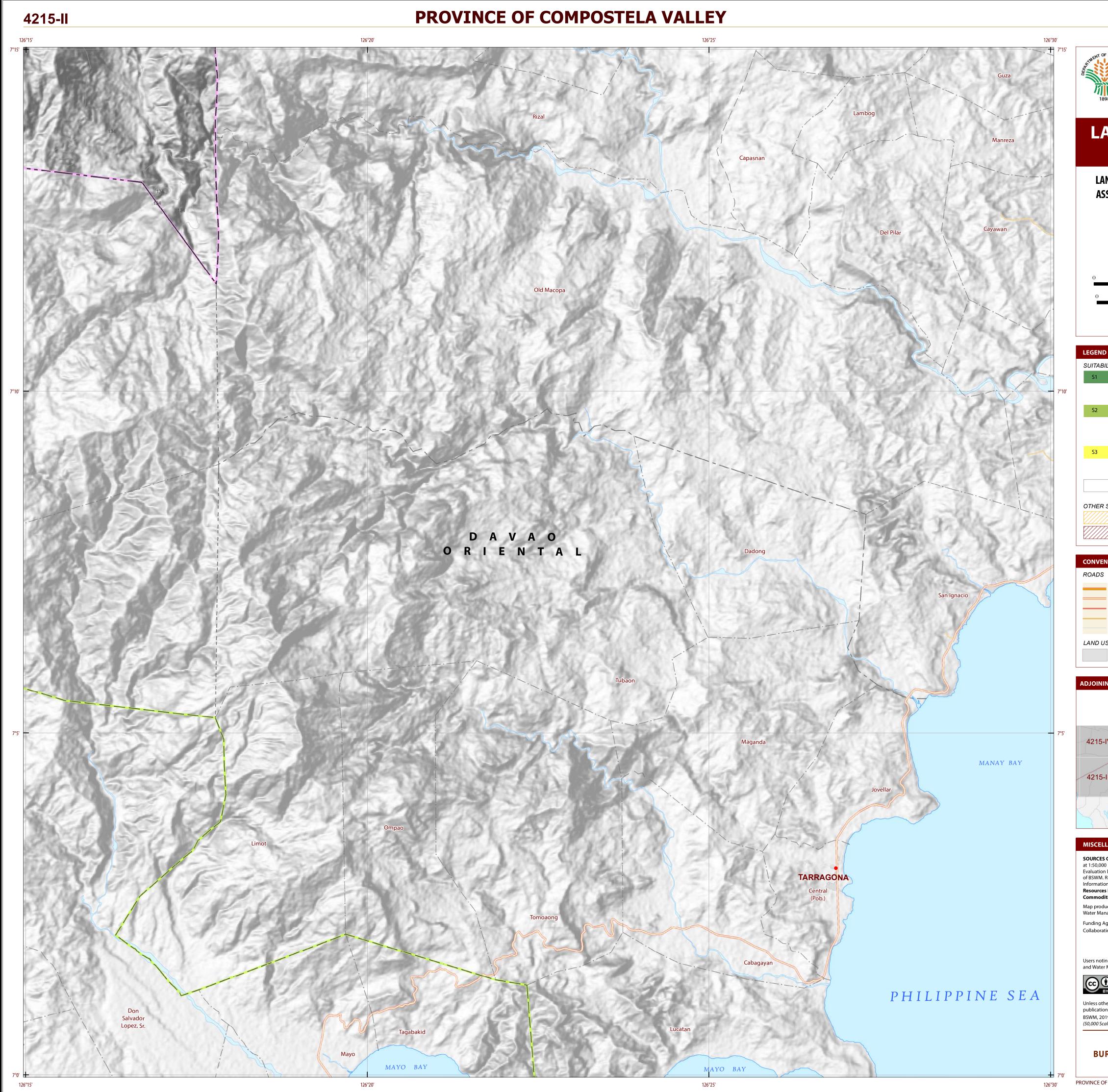
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