

PROVINCE OF ZAMBOANGA DEL SUR

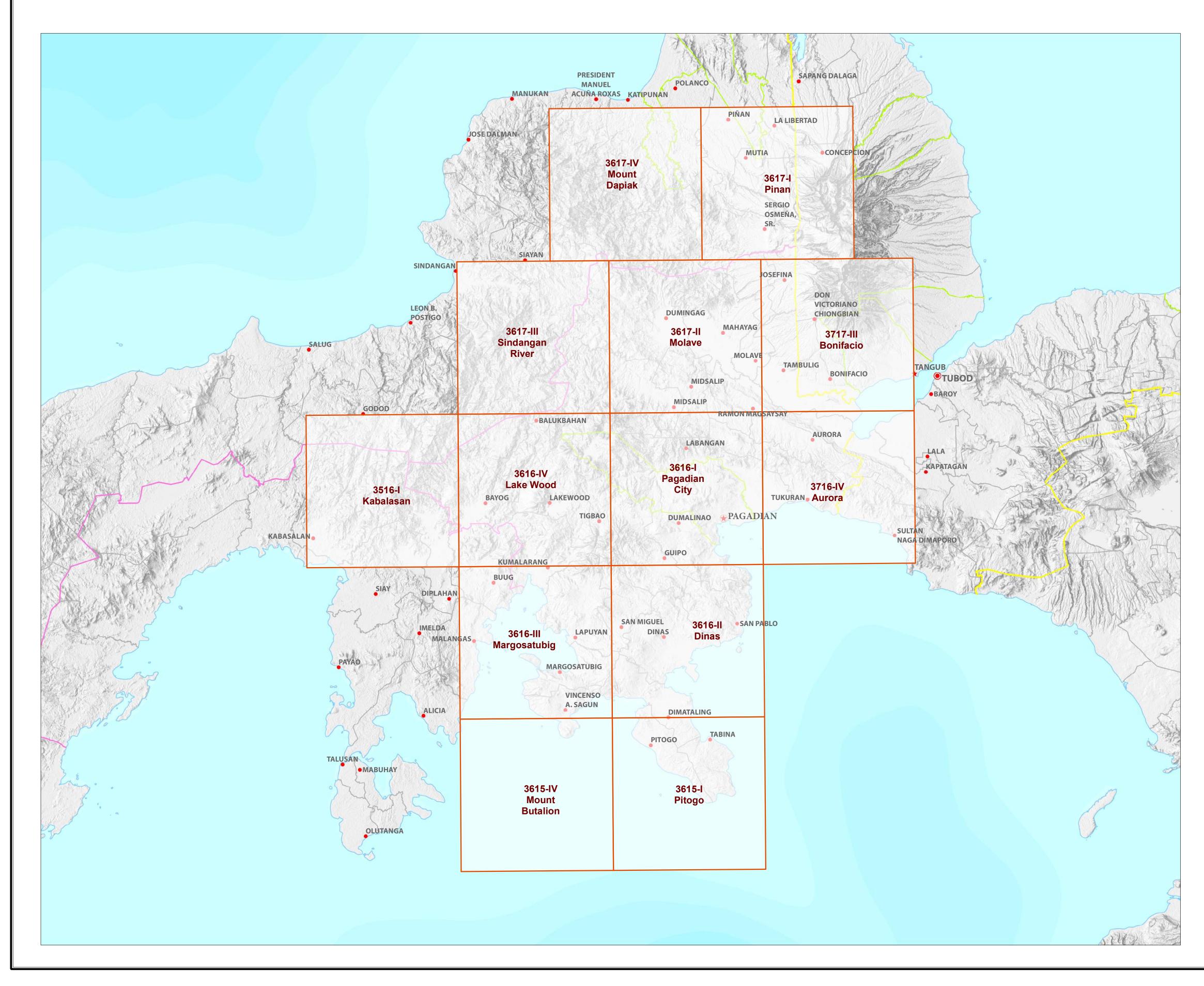
LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**



LAND SUITABILITY MAP

ABACA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF ZAMBOANGA DEL SUR



MAP INDEX

Land suitabilityinformation produced by the Bureau of Soils and Water Management (BSWM) through the Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project duly supported by the Philippine Council on Agriculture and Fisheries (PCAF) and funded by the Bureau of Agricultural Research (BAR). Map produced by the Geomatics and Soil Information Technology

Division, Bureau of Soils and Water Management (BSWM). Users noting errors or omissions in this publication are requested to inform the Bureau of Soils and Water Management.

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LAND SUITABILITY MAP FOR ABACA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS ZAMBOANGA DEL SUR, REGION IX

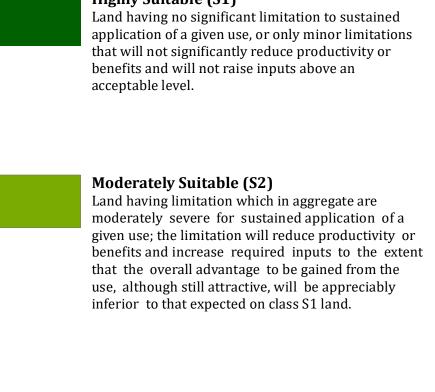
EXTENT OF SUITABILITY FOR ABACA PRODUCTION BY MUNICIPALITY

						EXP	ANSION	I AREA (H	la)				CONFLIC	T RESOL	UTION AF	REA (Ha)		TOTAL	
MUNICIPALITY	EXIST	ING ABA	CA (Ha)	TOTAL EXISTING AREA (Ha)	Coco	nut	Shruł unmar		Grass unman	-	Cor	'n	Ma	ıgo	Ban	ana	Other	· crops	POTENTIAL EXPANSION
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
AURORA	-	-	· _	-	480	7,525	6	100	28	351	453	733	-	-	-	-	-	-	9,676
BAYOG	-	-	· -	-	79	587	14	235	244	3,446	601	469	-	-	-	-	-	-	5,675
DIMATALING	-	-	· _	-	1,915	3,649	60	230	-	-	257	185	7	1	-	-	-	-	6,303
DINAS	-	-	· -	-	3,372	5,143	23	218	85	59	533	852	3	3	-	-	2	. 3	10,296
DUMALINAO	-	-	· -	-	678	2,920	-	9	16	387	855	2,104	-	-	-	-	-	-	6,969
DUMINGAG	-	-	· _	-	25	257	12	121	549	7,300	1,051	176	-	-	-	-	-	-	9,491
GUIPOS	-	-	· _	-	101	871	-	9	44	386	760	1,619	-	-	-	-	-	-	3,791
JOSEFINA	-	-	· -	-	-	1,392	-	182	-	159	42	1,800	-	-	-	-	-	-	3,575
KUMALARANG	-	-	· -	-	358	1,775	1	9	1	262	451	546	-	-	-	-	-	-	3,403
LABANGAN	-	-	· -	-	153	51	-	18	284	1,356	2,397	223	-	-	-	-	1		4,483
LAKEWOOD	-	-	· -	-	37	2,186	-	127	39	839	44	497	-	-	-	-	-	3	3,771
LAPUYAN	-	-	· -	-	1,258	6,103	40	373	11	179	499	656	-	-	-	-	-	-	9,120
MAHAYAG	-	-	· -	-	1,435	1,026	75	52	249	423	1,553	1,096	-	-	6	2	2	-	5,920
MARGOSATUBIG	-	-		-	801	3,485	19	171	4	20	157	357	-	-	-	-	-	-	5,015
MIDSALIP	-	-	· -	-	6	63	83	72	532	3,617	589	307	-	-	-	-	-	-	5,268
MOLAVE	-	-	· -	-	488	1,432	77	195	-	1	965	3,085	-	-	-	-	-	-	6,243
PAGADIAN CITY	-	-	· -	-	1,235	3,084	34	173	161	832	1,785	2,880	-	-	-	-	-	-	10,184
PITOGO	-	-		-	2,115	3,608	-	-	-	-	160	118	-	-	-	-	-	-	6,001
RAMON MAGSAYSAY	-	-		-	708	3,384	6	43	235	209	212	1,140	-	-	-	-	-	_	5,938
SAN MIGUEL	-	-		-	1,121	2,937	4	110	12	124	412	774	-	-	-	-	-	_	5,494
SAN PABLO	-	-		-	761	3,763	-	-	_	28	332	659	-	2	-	-	-	_	5,545
SOMINOT	-	-		-	254	1,468	12	56	617	2,022	159	482	-	-	-	-	-	_	5,070
TABINA	-	-		-	725	4,967	-	-	_	-	6	68	-	_	_	2	5		5,771
TAMBULIG	-	-		-	172	2,518	-	1	20	46	1,334	954	-	-	_	_	-	_	5,046
TIGBAO	-	-		-	39	1,680	-	91		170	255	921	1	-	-	-	-	3	3,162
TUKURAN	-	-		_	70	377	7	100		3,154	623	421	-	-	3	_	-	-	5,245
VINCENZO A. SAGUN	-	-		_	904	3,381	-	-	-	25	68	81	-	1	-	-	-	-	4,460
TOTAL	-	-		_	19,291	69,632	474	2,694	3,626	25,395	16,553	23,201	10	7	9	4	11	8	

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

LAND UTILIZATIO TYPE	N SUITABILITY RATING	SLOPI	E (%) SOIL DI (cm		SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS		ROCK TCROPS	ELEVATION (masl)	ANNUAI RAINFAL (mm)	
	S1	<	:8 >5	0	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD, SPD	5.6 -7.2	high	none-slight	none-slight	: no	one-few	<500	2001-450	0 II, III, IV
Abaca	S2	8 -	30 30 -	50	FSL, L, SiL, SL	PD,VPD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	C	ommon	500-1500	1000-200	0 I, II
	S3	>3	30 < 3	0	S, LS, CSL	ED	<5.0 - > 7.9	low	severe	severe		many	>1500	<1000 >4500	
SLOPE (%)		7	SOIL I	ORAINA	GE		SOIL REACTIO	N (pH)	. ,	SOIL TEXT	TURE				9
	evel to gently slopi	ng	ED		cessively drained			remely acid		Coarse	_			Fine	
	ently sloping to un	-	WD		ell drained			y strongly acid		S	- sand				- sandy clay
	indulating to rolling	-	MWD		oderately well draine	'nd		ongly acid			- loamy :	sand			- silty clay
	olling to moderate		SPD		mewhat poorly drain			dium acid			-	sandy loam			- clay
	teep	ly steep	PD		orly drained	icu		htly acid			- sandy l	-			- heavy clay
	very steep		VPD	-	ery poorly drained		6.6 - 7.2 - net	-		Medium	Sallay	louin		110	neuvy enay
50 0	ery steep		VID	vc	iry poorty aramea			dly alkaline			- fine sa	ndy loam			
OIL DEPTH	(m)		CLIDE	ACE IMD	EDIMENT			derately alkaline		_	- loam	nay iouin			
								-		L					
	very shallow			OUTCRO			> 8.5 - stre	ongly alkaline		SiL	- silt loa				
	hallow		< 10%		one - few					CL	- clay loa				
	noderately deep leep to very deep		10 - 30 > 30%		ommon						- silty cla	-			
					any					SCL	- sandy (clay loam			
LEVATION 12 - 500 -	1000m or 2000 - 2!		SCRIPTION soil D2	I ANE DRAINA - Some	COMBINA AGE what poorly drained	to poorly draine	ed S		moderately deep		SOI E2	IL EROSION - Modera	te erosion		
ELEVATION El2 - 500 - El3 - < 500	1000m or 2000 - 2! m or > 2500m		SCRIPTION soil D2 D3	DRAIN - Some - Very]	D COMBINA AGE what poorly drained poorly drained or exc	to poorly draine	d S I S	h2 - Shallow to h3 - Very shallo	ow (< 30cm)		SOI E2 E3	IL EROSION - Modera - Severe	te erosion		
ELEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2! m or > 2500m)GRAPHY	500m	SCRIPTION SOIL D2 D3 SOIL	I ANE DRAINA - Some - Very J TEXTU	COMBINA AGE what poorly drained poorly drained or exe RE	to poorly draine	d S I S	h2 - Shallow to h3 - Very shallo	ow (< 30cm)		SOI E2 E3 FLC	IL EROSION - Modera - Severe	te erosion erosion	1.	
LEVATION 12 - 500 - 13 - < 500 LOPE/TOP(2 - Undul	1000m or 2000 - 2! m or > 2500m DGRAPHY lating to moderatel	500m	SCRIPTION soil D2 D3	I ANE DRAINA - Some - Very J TEXTU	D COMBINA AGE what poorly drained poorly drained or exc	to poorly draine	d S I S F R	h2 - Shallow to h3 - Very shallo ROCK OUTCROPS hc2 - Common	ow (< 30cm)		SOI E2 E3 FLC F2	IL EROSION - Modera - Severe DODING - Modera	ate erosion erosion ate seasonal flood	0	
LEVATION 12 - 500 - 13 - < 500 LOPE/TOP(2 - Undul	1000m or 2000 - 2! m or > 2500m)GRAPHY	500m	SCRIPTION SOIL D2 D3 SOIL	I ANE DRAINA - Some - Very J TEXTU	COMBINA AGE what poorly drained poorly drained or exe RE	to poorly draine	d S I S F R	h2 - Shallow to h3 - Very shallo	ow (< 30cm)		SOI E2 E3 FLC	IL EROSION - Modera - Severe DODING - Modera	te erosion erosion	0	
ELEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2 m or > 2500m DGRAPHY lating to moderately to very steep	500m	SCRIPTION SOIL D2 D3 SOIL	I ANE DRAINA - Some - Very J TEXTU	COMBINA AGE what poorly drained poorly drained or exe RE e texture	to poorly draine	d S I S F R	h2 - Shallow to h3 - Very shallo ROCK OUTCROPS hc2 - Common	ow (< 30cm)	(30 - 100cm)	SOI E2 E3 FLC F2	IL EROSION - Modera - Severe DODING - Modera	ate erosion erosion ate seasonal flood seasonal flooding	0	
ELEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2 m or > 2500m DGRAPHY lating to moderately to very steep IMITATION (500m y steep C ODE	SCRIPTION SOIL D2 D3 SOIL Tc	DRAIN - Some - Very TEXTU - Coars	COMBINA AGE what poorly drained poorly drained or exe RE e texture	to poorly draine	d S I S F R R	h2 - Shallow to h3 - Very shallo ROCK OUTCROPS c2 - Common c3 - Many CODE	ow (< 30cm)	(30 - 100cm) E CO	SOI E2 E3 FLC F2 F3	IL EROSION - Modera - Severe DODING - Modera - Severe	ate erosion erosion ate seasonal flood seasonal flooding	0	
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LEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2 m or > 2500m DGRAPHY lating to moderately to very steep IMITATION	500m y steep CODE 11 T2- 12 T2-	SCRIPTION SOIL D2 D3 SOIL Tc LIMITATION -E3-Sh2-Rc2	ANE DRAINA - Some - Very J TEXTU - Coars CODE 21	COMBINA AGE what poorly drained poorly drained or exe RE e texture LIMITATION T3	to poorly drained cessively drained CODE 31 T3 32 T3-1	d S I S F R R R LIMITATION	h2 - Shallow to h3 - Very shallo COCK OUTCROPS ac2 - Common ac3 - Many CODE 4 4 47	ow (< 30cm) S LANDUS Corn	(30 - 100cm) E CO	SOI E2 E3 FLC F2 F3 DE 31 Ipil	IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana	ate erosion erosion ate seasonal flood seasonal flooding SE	0	
ELEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2 m or > 2500m DGRAPHY lating to moderately to very steep IMITATION	500m y steep 20DE 11 T2: 12 T2: 13 T2:	SCRIPTION SOIL D2 D3 SOIL Tc LIMITATION -E3-Sh2-Rc2 -E3-Sh2-Rc3	ANC DRAINA - Some - Very J TEXTU - Coars CODE 21 22	COMBINA AGE what poorly drained poorly drained or exe RE e texture LIMITATION T3 T3-E3	to poorly drained cessively drained CODE 31 T3 32 T3-1 33 T3-1	d S I S F R R LIMITATION	h2 - Shallow to h3 - Very shallo COCK OUTCROPS c2 - Common c3 - Many CODE 4 4 47	ow (< 30cm) 5 Corn Vegetable	(30 - 100cm) E CO	SOI E2 E3 FLC F2 F3 DE 31 Ipil 34 Shru	IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana	ate erosion erosion ate seasonal flood seasonal flooding SE	0	
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LEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2! m or > 2500m DGRAPHY lating to moderately to very steep IMITATION 2 2 2	500m y steep <u>11 T2- 12 T2- 13 T2- 14 T2- 15 T2-</u>	SCRIPTION SOIL D2 D3 SOIL C SOIL Tc LIMITATION -E3-Sh2-Rc2 -E3-Sh2-Rc2 -E12-E3-Sh2-Rc2 -E12-E3-Sh2-Rc3	ANC DRAINA - Some - Very TEXTU - Coars CODE 21 22 23 24	COMBINA AGE what poorly drained poorly drained or exe RE e texture LIMITATION T3 T3-E3 T3-E3-Rc2 T3-E3-Sh2-Rc3	to poorly drained cessively drained 31 32 33 33 34	ed S I S I S I I I I I I I I I I I I I I I	h2 - Shallow to h3 - Very shallo ROCK OUTCROPS ac2 - Common ac3 - Many CODE 4 4 47 81 82	bw (< 30cm) LANDUS Corn Vegetable Coffee Cacao	(30 - 100cm) E CO	SOI E2 E3 FLC F2 F3 DE 31 Ipil 34 Shru	IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana	ate erosion erosion ate seasonal flood seasonal flooding SE	0	
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ELEVATION $(12) - 500 - (13)$ $(13) - < 500$ ELOPE/TOPO $(2) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 000$ $(3) - 0000$ </td <td>1000m or 2000 - 2! m or > 2500m DGRAPHY lating to moderately to very steep IMITATION 2 </td> <td>500m y steep 11 T2- 12 T2- 13 T2- 14 T2- 15 T2- 16 T2- 17 T2-</td> <td>SCRIPTION SOIL D2 D3 SOIL Tc LIMITATION -E3-Sh2-Rc2 -E3-Sh2-Rc3 -E12-E3-Sh2-Rc2 -E12-E3-Sh2-Rc3 -E12-E3-Sh2-Rc3 -E12-Sh2-Rc3 -E12-Sh2-Rc3</td> <td>ANC DRAINA - Some - Very J TEXTU - Coars CODE 21 22 23 24 25 26</td> <td>COMBINA AGE what poorly drained poorly drained or exe RE e texture LIMITATION T3 T3-E3 T3-E3-Rc2 T3-E3-Sh2-Rc3 T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc2</td> <td>CODE 31 T3 32 T3-1 33 T3-1 34 T3-1 35 T3-1 35 T3-1</td> <td>ed S I S I S I I I I I I I I I I I I I I I</td> <td>h2 - Shallow to h3 - Very shallo COCK OUTCROPS c2 - Common c3 - Many CODE 4 4 47 81 82 85 87</td> <td>bw (< 30cm) LANDUS Corn Vegetable Coffee Cacao Mango Jackfruit</td> <td>(30 - 100cm) E CO 13 13 13 13 13 13 13 13 13 13 13 13 13</td> <td>SOI E2 E3 FLC F2 F3 DE 31 Ipil 34 Shru</td> <td>IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana</td> <td>ate erosion erosion ate seasonal flood seasonal flooding SE</td> <td>0</td> <td></td>	1000m or 2000 - 2! m or > 2500m DGRAPHY lating to moderately to very steep IMITATION 2	500m y steep 11 T2- 12 T2- 13 T2- 14 T2- 15 T2- 16 T2- 17 T2-	SCRIPTION SOIL D2 D3 SOIL Tc LIMITATION -E3-Sh2-Rc2 -E3-Sh2-Rc3 -E12-E3-Sh2-Rc2 -E12-E3-Sh2-Rc3 -E12-E3-Sh2-Rc3 -E12-Sh2-Rc3 -E12-Sh2-Rc3	ANC DRAINA - Some - Very J TEXTU - Coars CODE 21 22 23 24 25 26	COMBINA AGE what poorly drained poorly drained or exe RE e texture LIMITATION T3 T3-E3 T3-E3-Rc2 T3-E3-Sh2-Rc3 T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc2	CODE 31 T3 32 T3-1 33 T3-1 34 T3-1 35 T3-1 35 T3-1	ed S I S I S I I I I I I I I I I I I I I I	h2 - Shallow to h3 - Very shallo COCK OUTCROPS c2 - Common c3 - Many CODE 4 4 47 81 82 85 87	bw (< 30cm) LANDUS Corn Vegetable Coffee Cacao Mango Jackfruit	(30 - 100cm) E CO 13 13 13 13 13 13 13 13 13 13 13 13 13	SOI E2 E3 FLC F2 F3 DE 31 Ipil 34 Shru	IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana	ate erosion erosion ate seasonal flood seasonal flooding SE	0	
LEVATION 12 - 500 - 13 - < 500	1000m or 2000 - 2! m or > 2500m OGRAPHY lating to moderately to very steep IMITATION 2	500m y steep 11 T2: 12 T2: 13 T2: 14 T2: 15 T2: 16 T2: 17 T2: 18 T2:	SCRIPTION SOIL D2 D3 SOIL C SOIL Tc LIMITATION -E3-Sh2-Rc2 -E3-Sh2-Rc3 -E12-E3-Sh2-Rc3 -E12-E3-Sh2-Rc3 -E12-E3-Sh2-Rc3 -E12-Sh2-Rc3 -E12-Sh2-Rc3 -F2-D2 -F3-D2	I ANE DRAINA - Some - Very 1 TEXTUE - Coars I 22 23 24 25 26 27	COMBINA AGE what poorly drained poorly drained or exe retexture LIMITATION T3 T3-E3 T3-E3-Rc2 T3-E3-Sh2-Rc3 T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc2	CODE 31 T3 32 T3-1 33 T3-1 34 T3-1 35 T3-1 35 T3-1	ed S I S I S I I I I I I I I I I I I I I I	h2 - Shallow to h3 - Very shallo COCK OUTCROPS c2 - Common c3 - Many CODE 4 4 47 81 82 85 87 91 105	bw (< 30cm) LANDUS Corn Vegetable Coffee Cacao Mango Jackfruit Banana	(30 - 100cm) E CO 13 13 13 13 13 13 13 13 13 13 13 13 13	SOI E2 E3 FLC F2 F3 DE 31 Ipil 34 Shru	IL EROSION - Modera - Severe DODING - Modera - Severe LANDU ipil ubs, unmana	ate erosion erosion ate seasonal flood seasonal flooding SE	0	

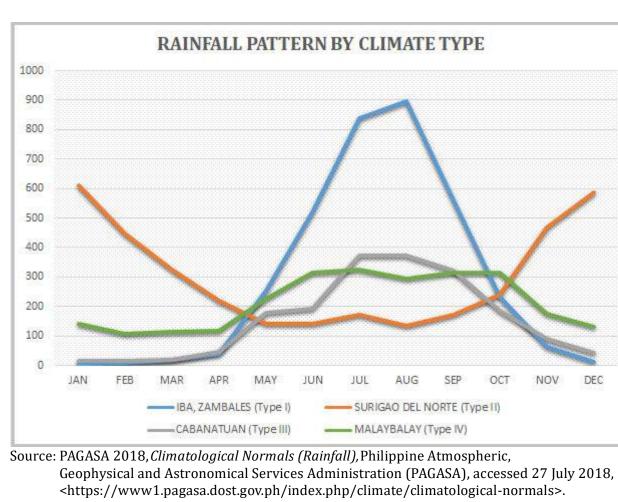
SUITABILITY CLASSES: Highly Suitable (S1)



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.

Eastern part of Zamboanga Del Sur belongs to Type III climate classification and the rest on Wesstern part belongs to Type IV.



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

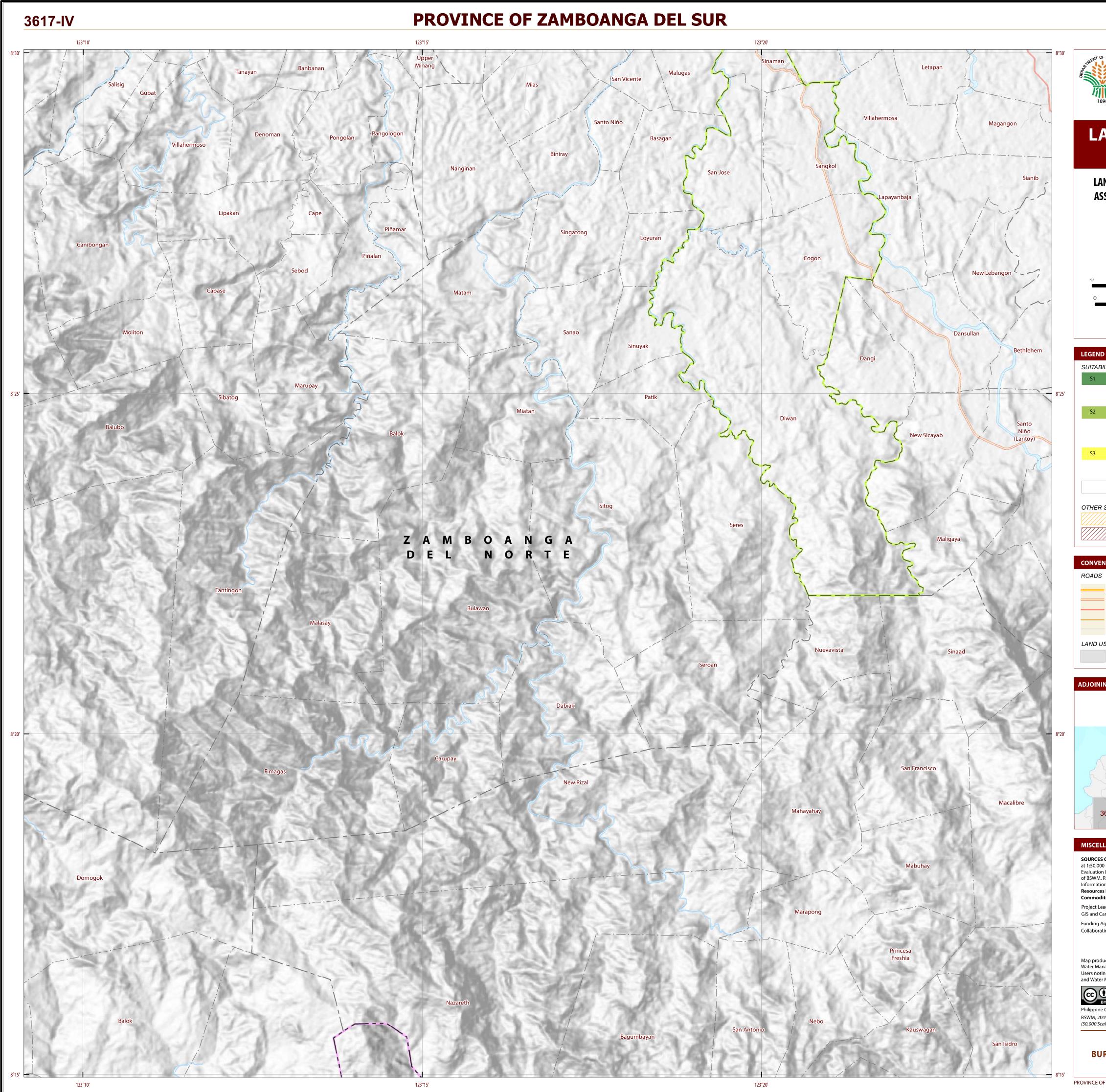
such as built up areas, roads, etc are considered

as not relevant.

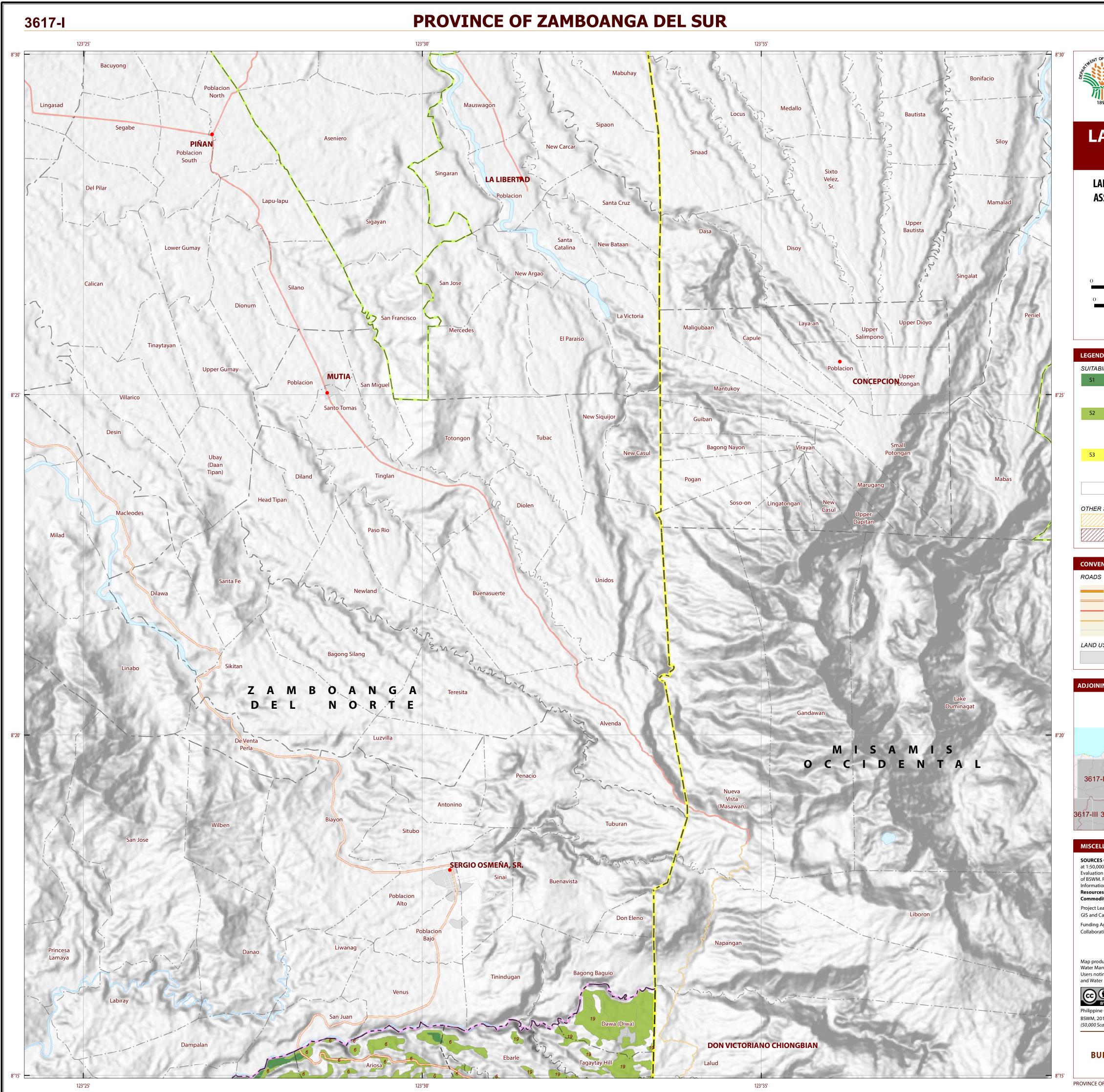
Marginally Suitable (S3)

- 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.

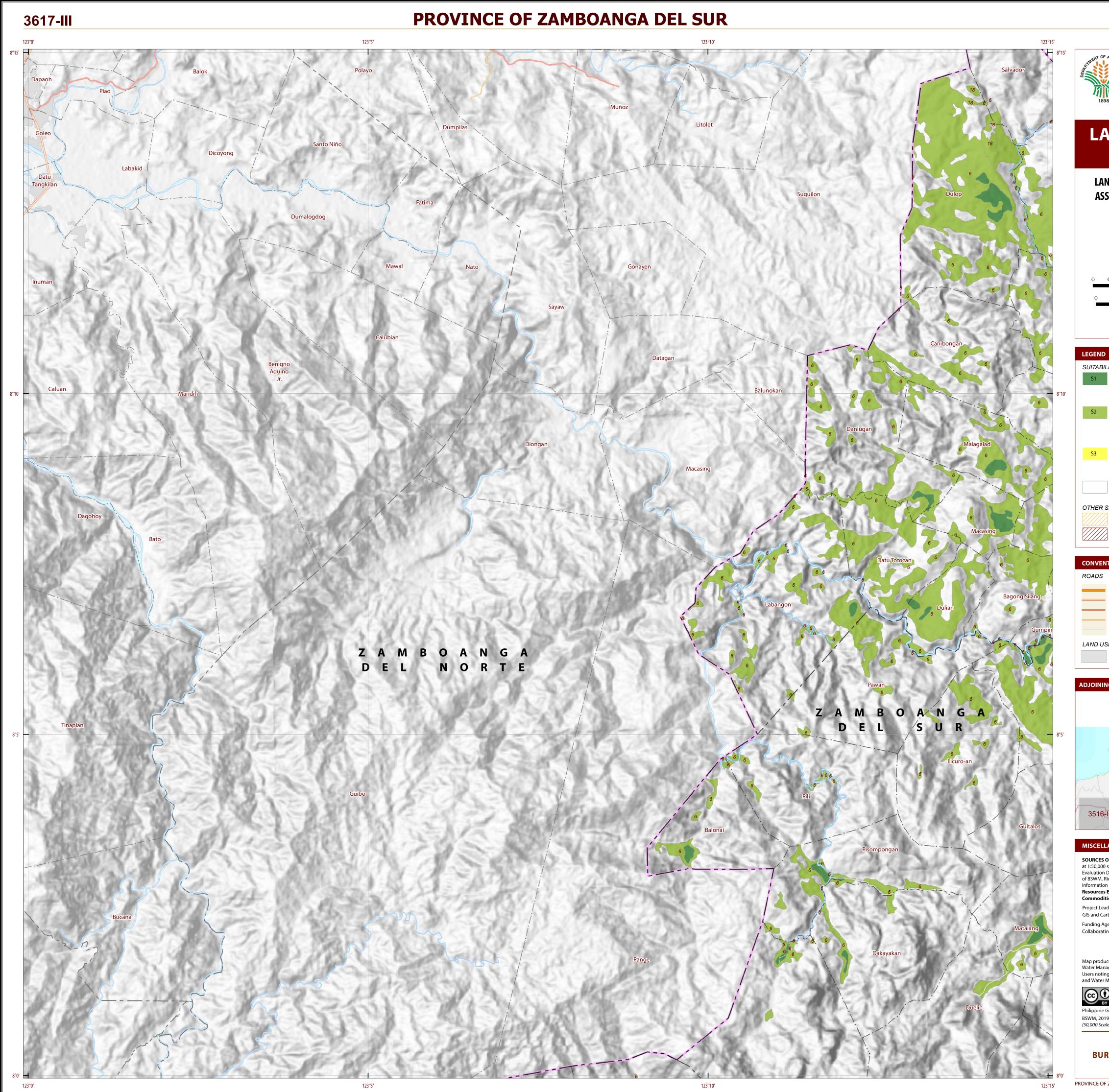




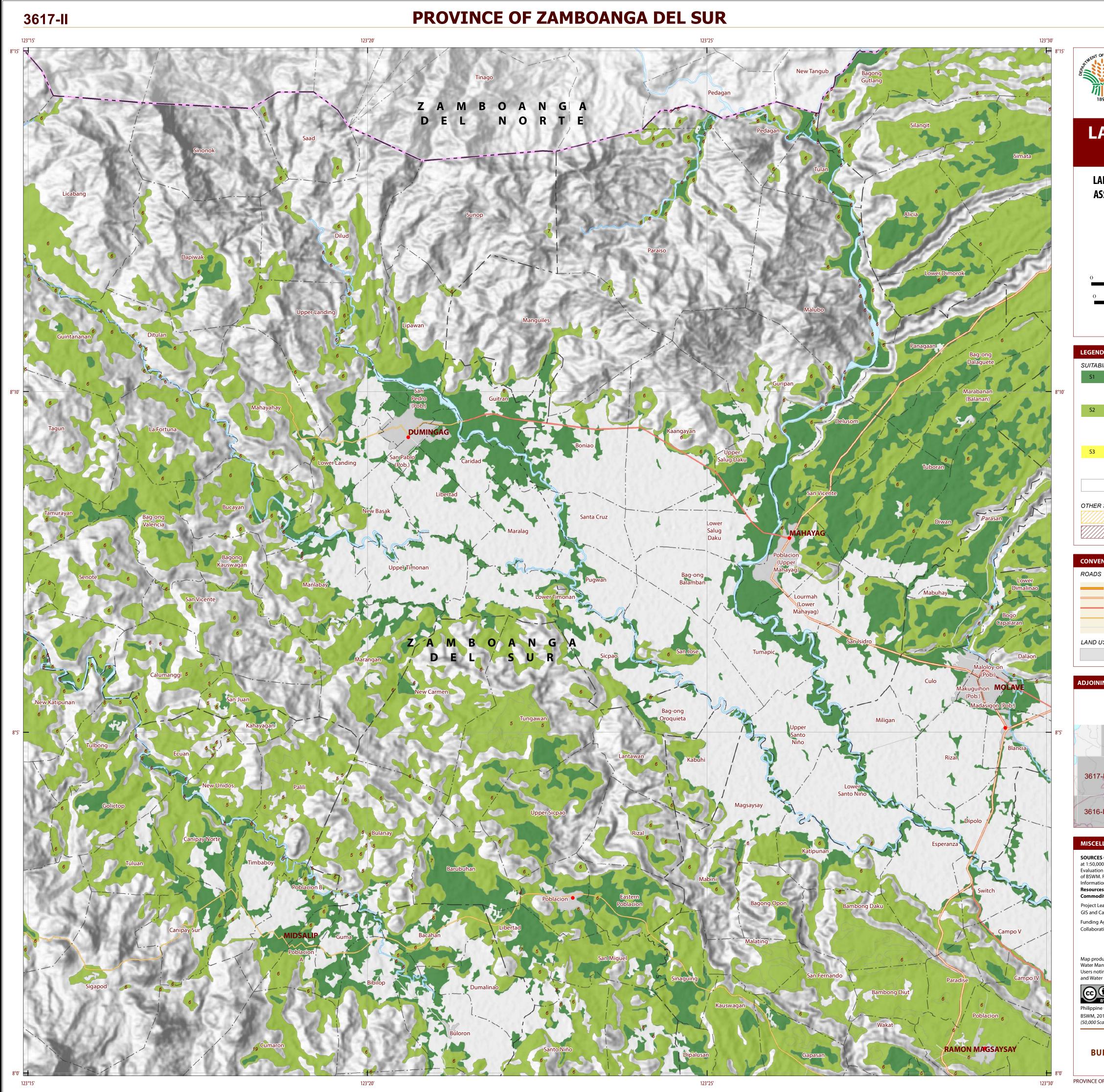
Mount Dapiak
PROPAGALITY OF AGRICULTURE MAN O
AND SUITABILITY MAP ABACA
ND RESOURCES EVALUATION AND SUITABILITY SESSMENT OF STRATEGIC PRODUCTION AREAS
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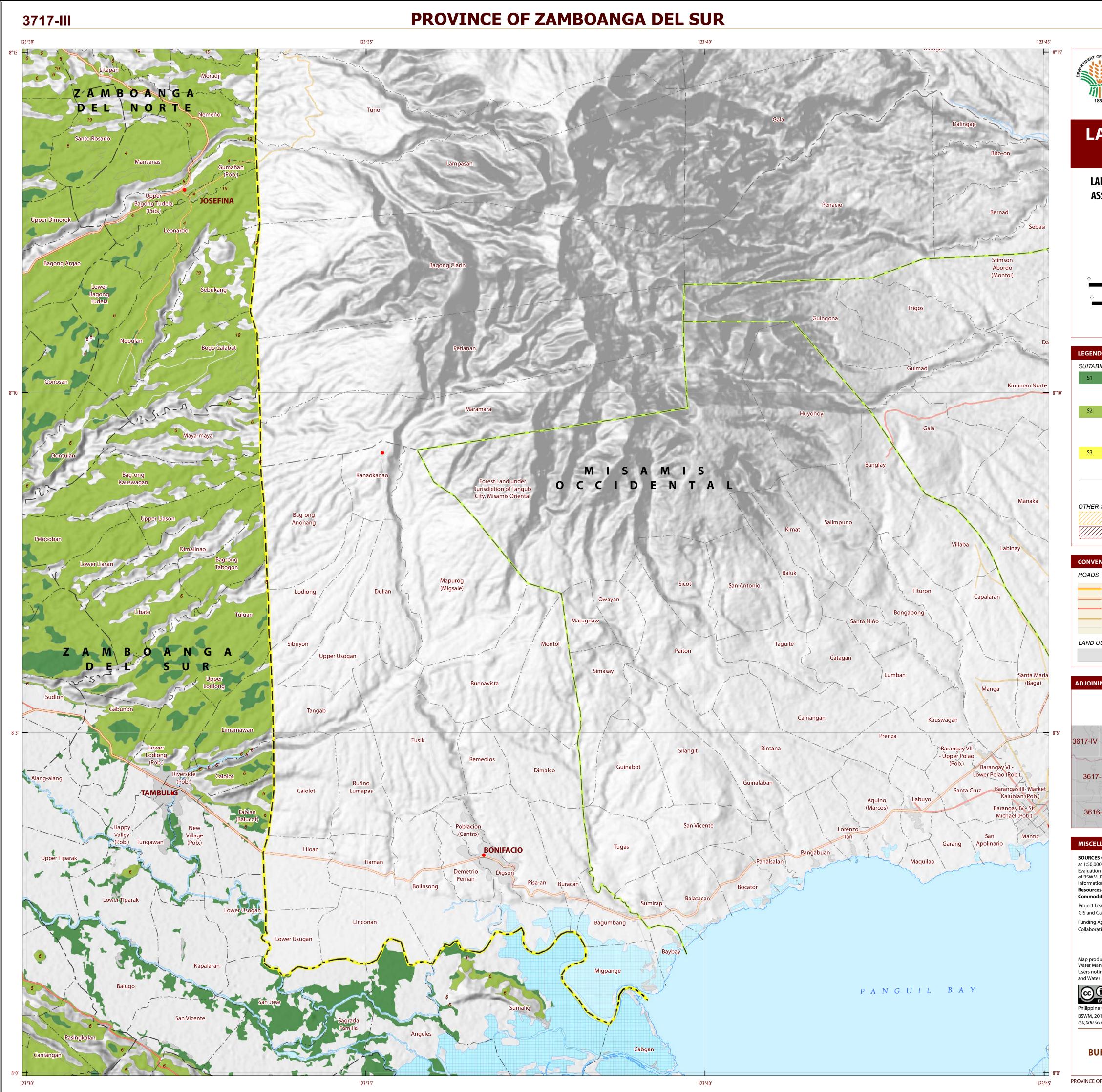
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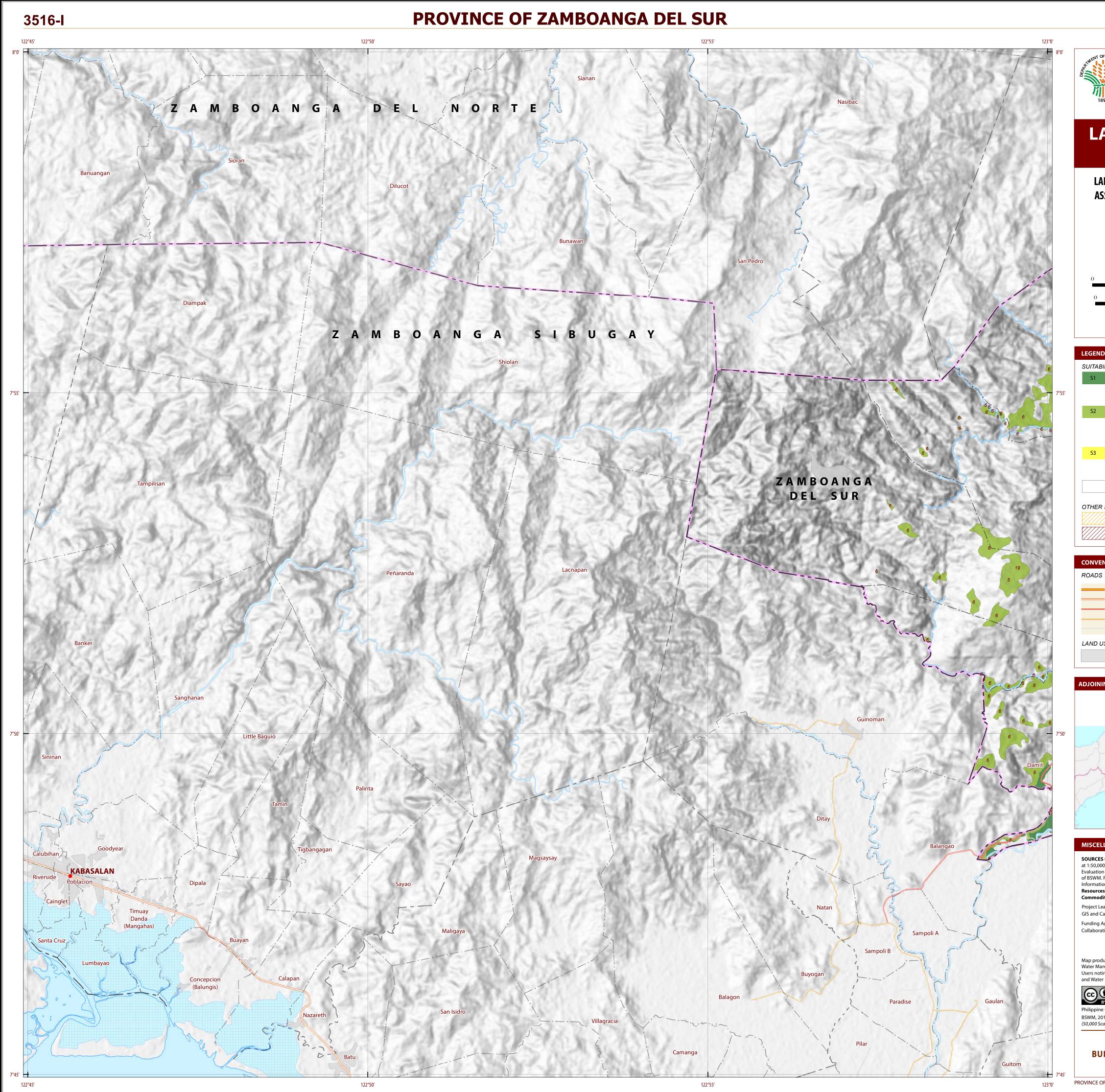
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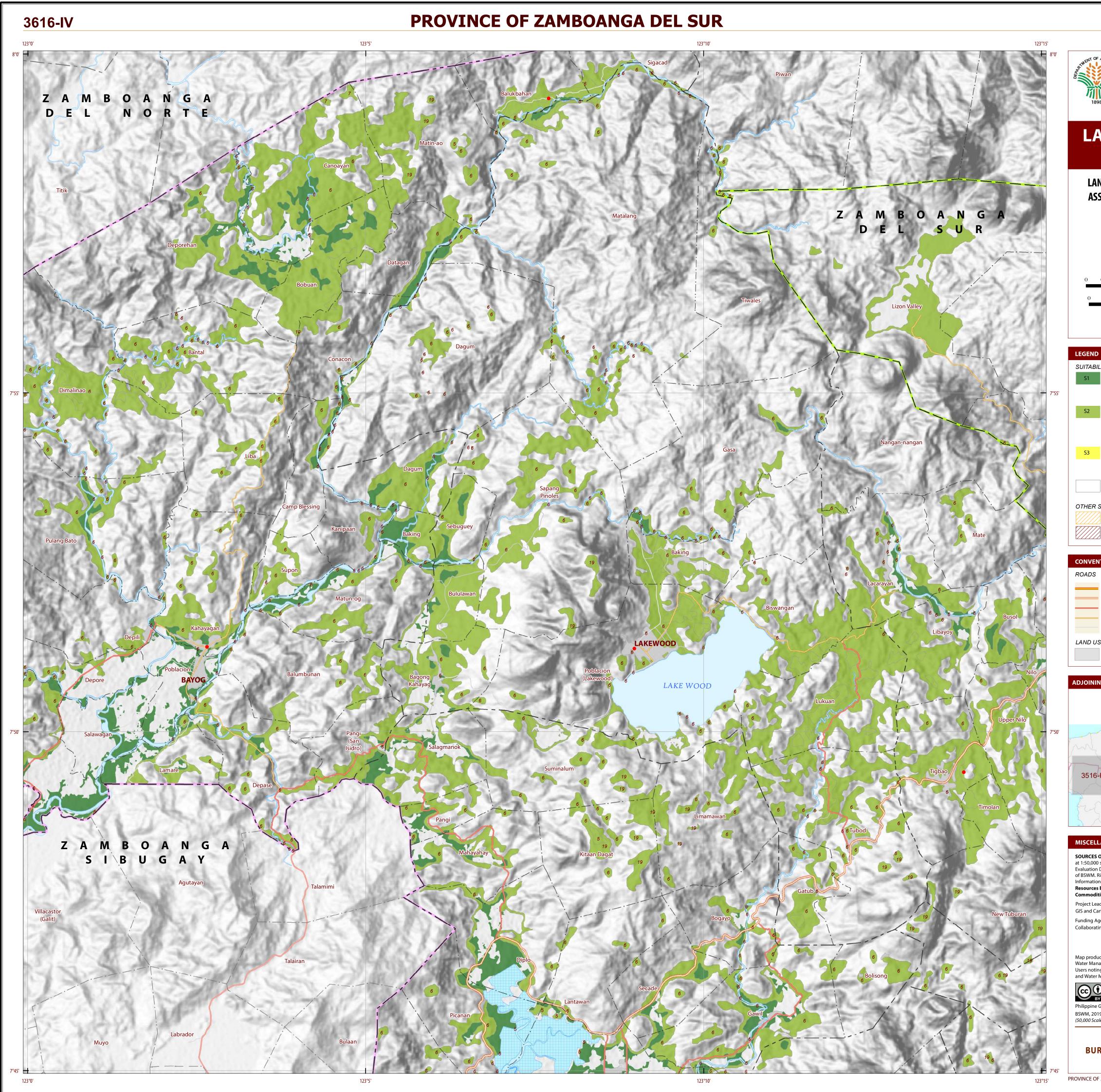
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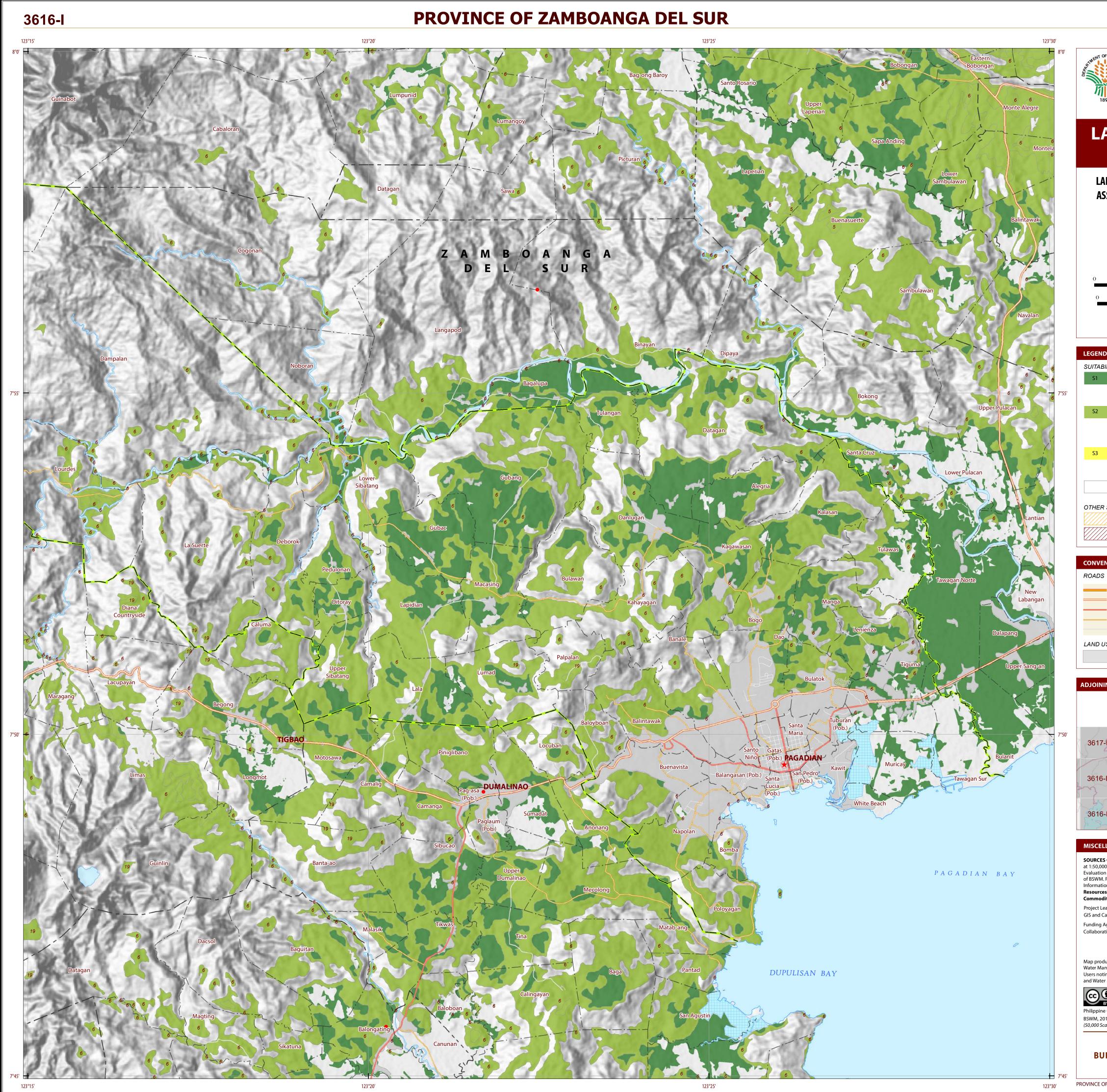
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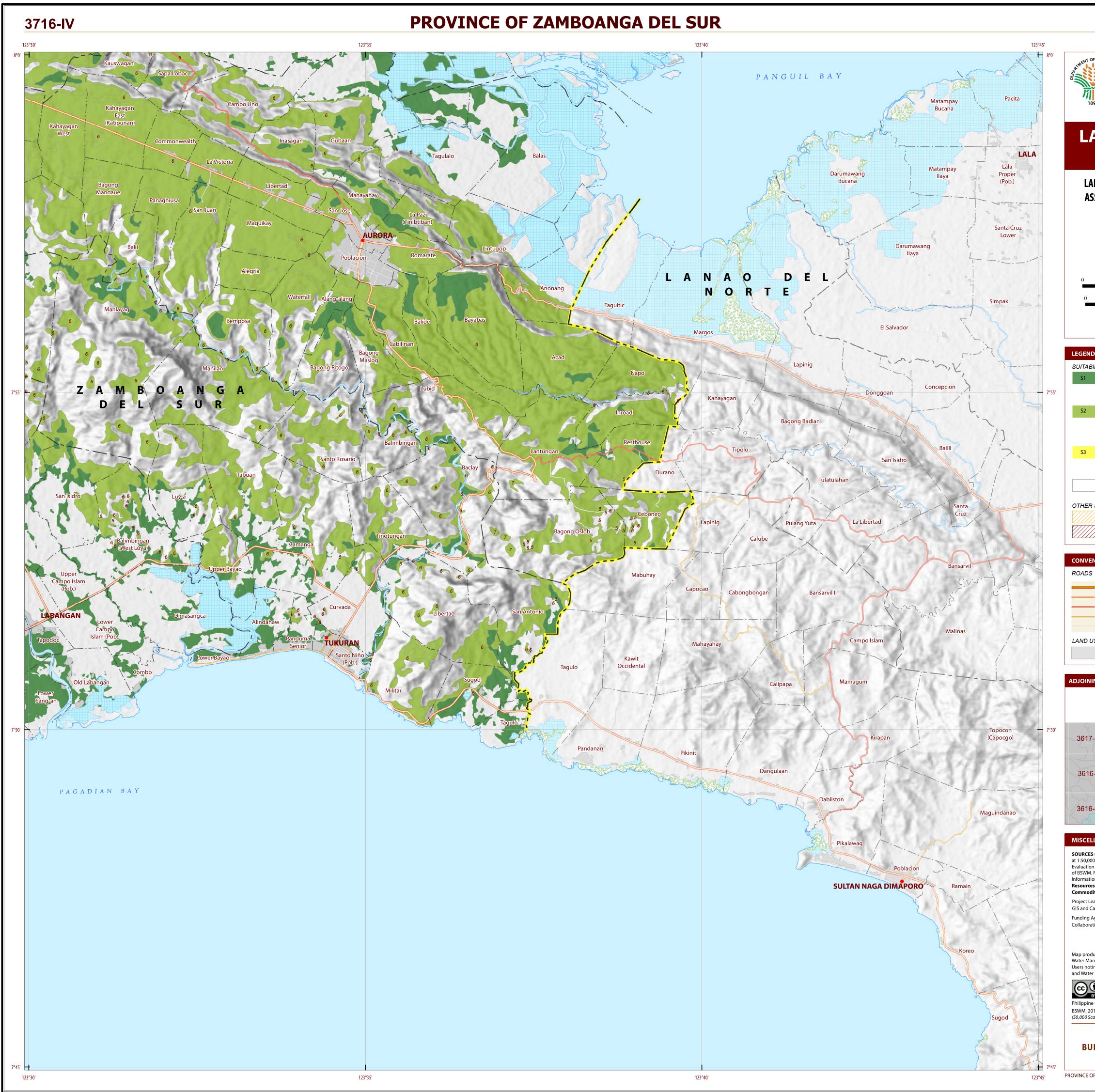
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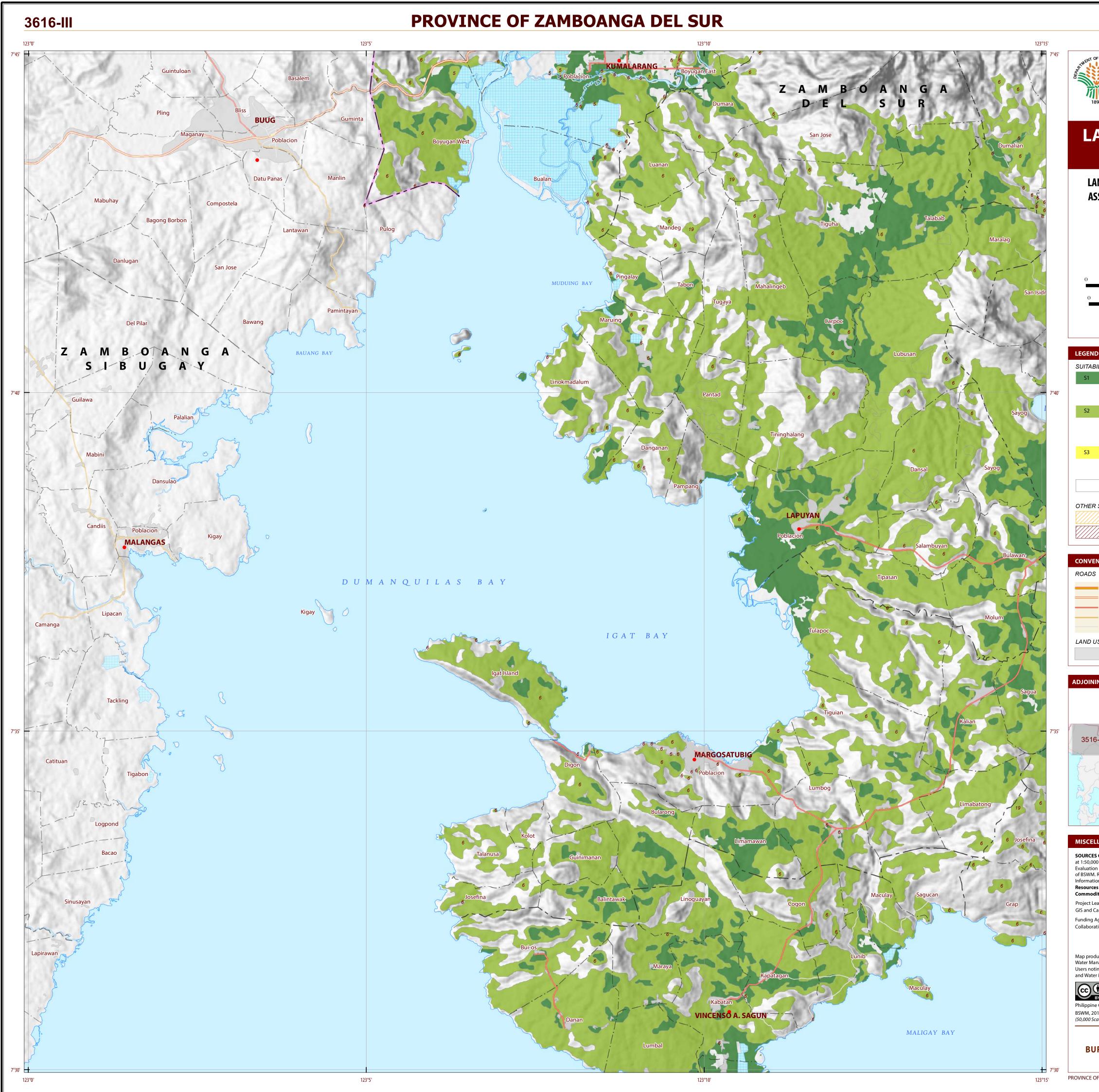
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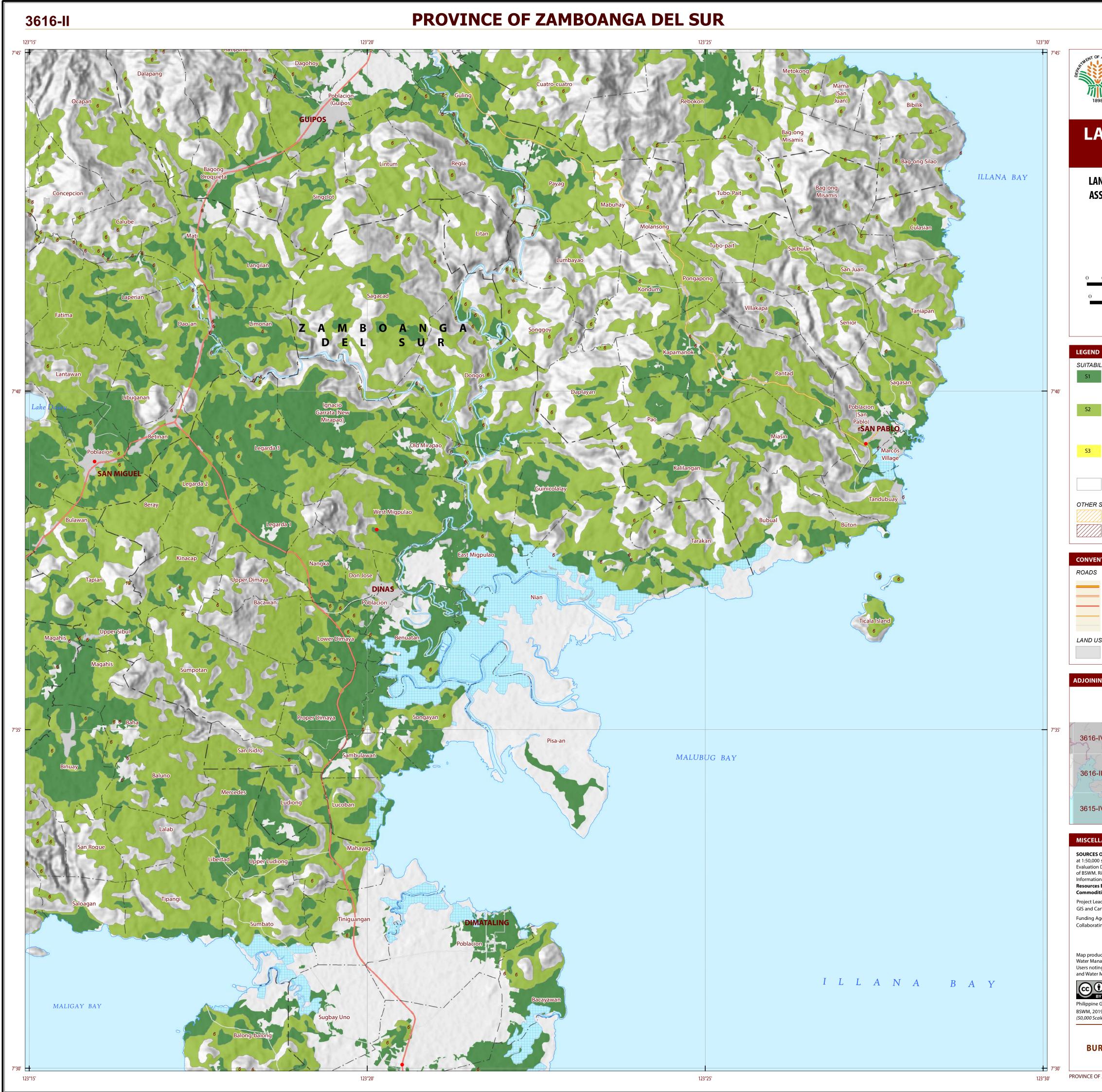
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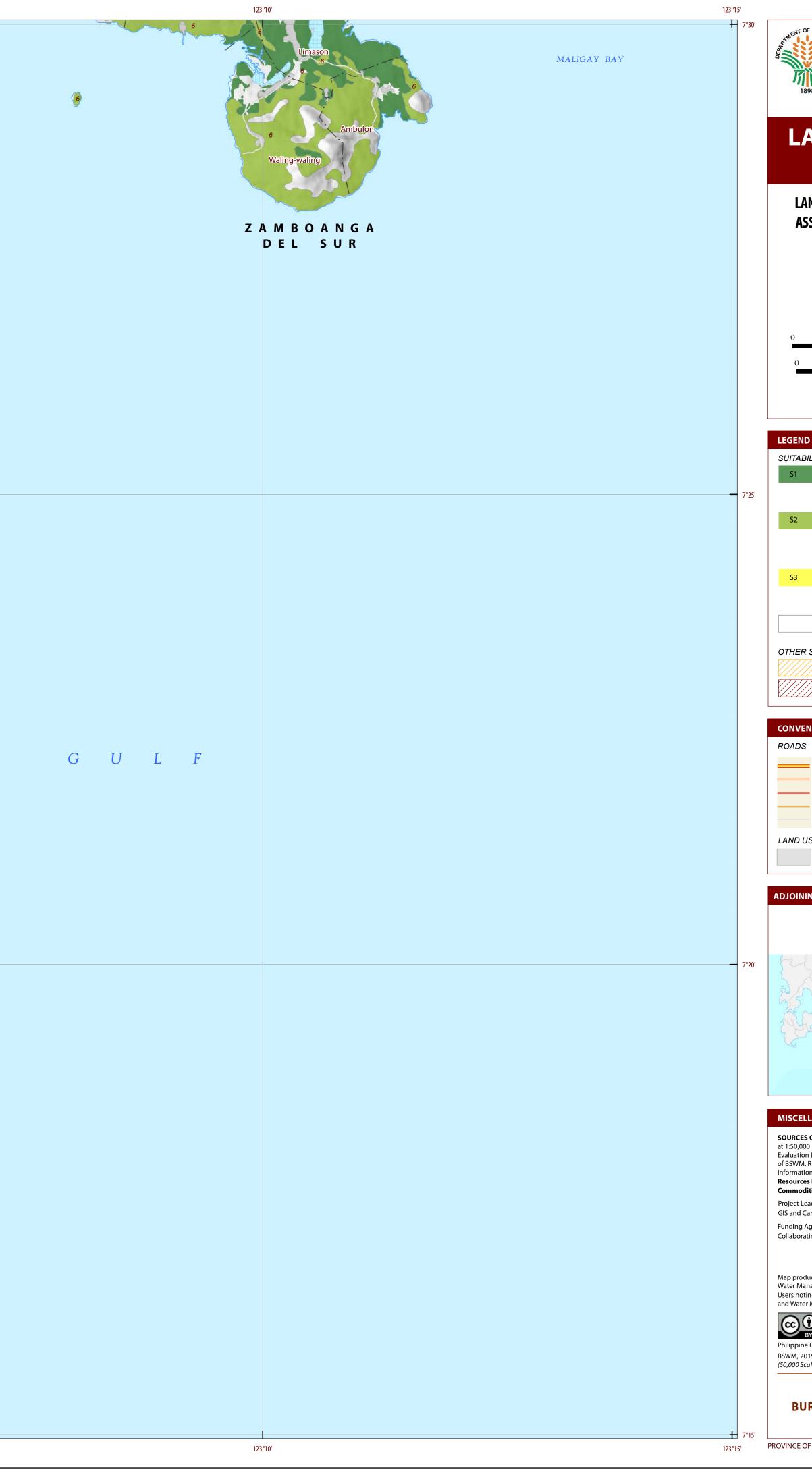
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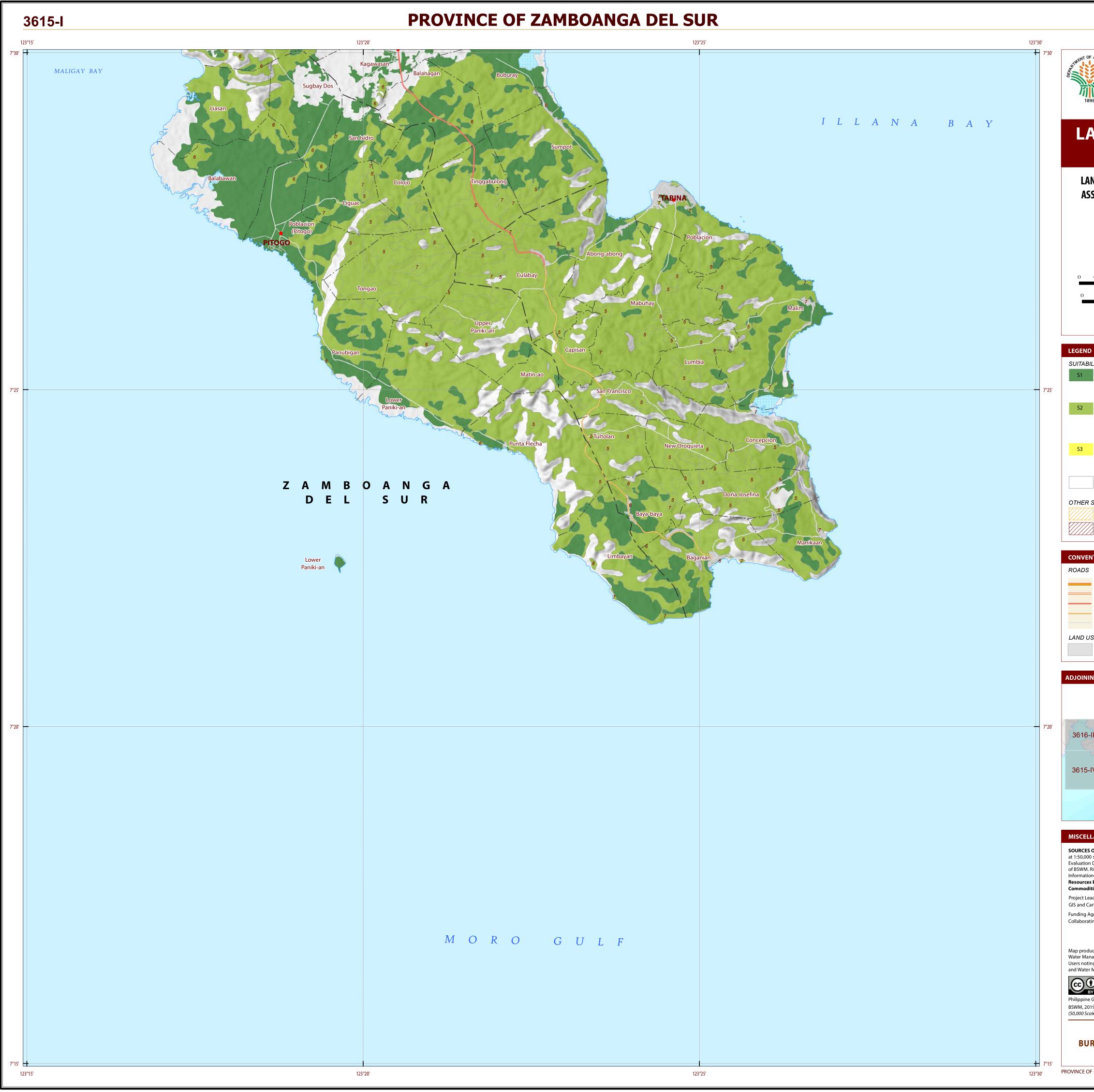
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