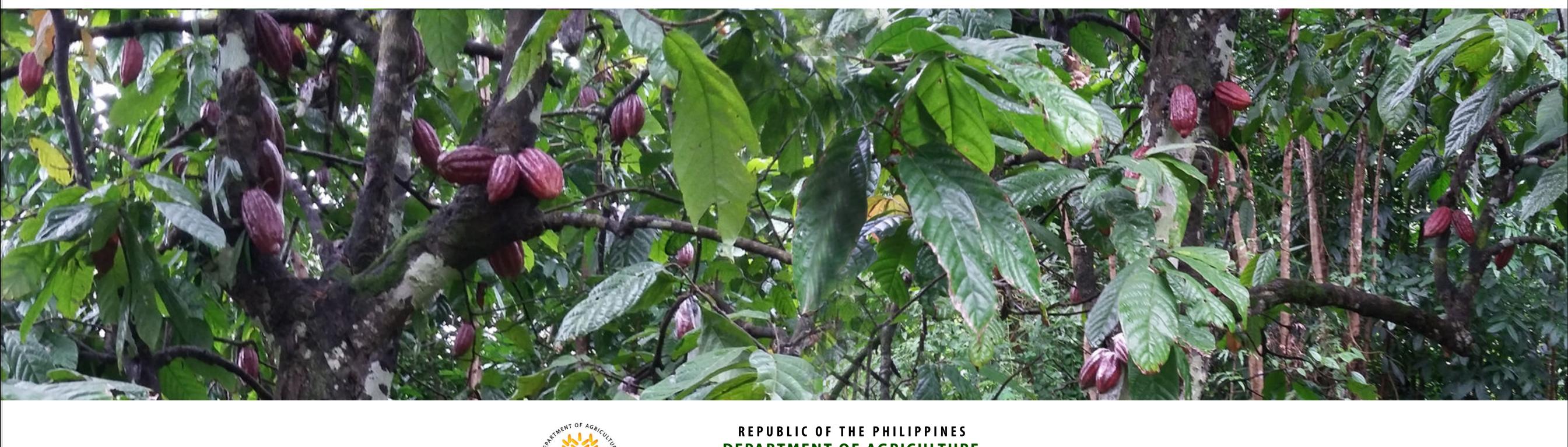
LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

PROVINCE OF QUEZON





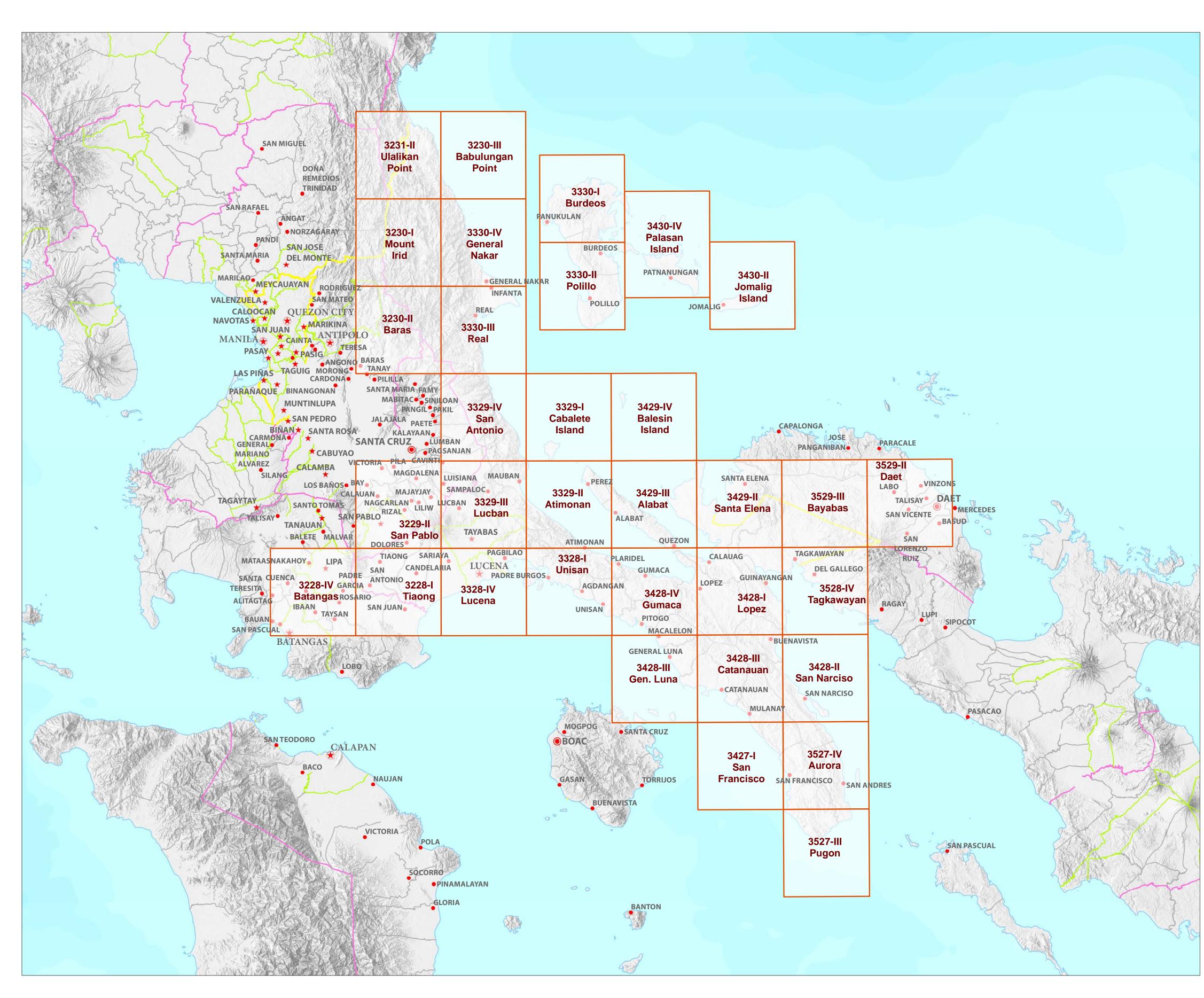
LAND SUITABILITY MAP

CACAO



DEPARTMENT OF AGRICULTURE **BUREAU OF SOILS AND WATER MANAGEMENT** SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com

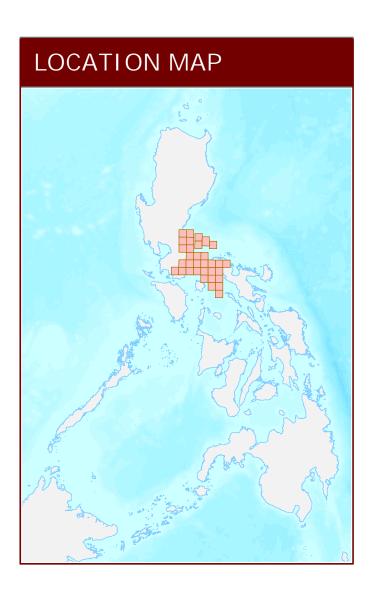
LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



MAP INDEX

PROVINCE OF QUEZON

LEGEND							
Place	S						
۲	Capital City						
*	City						
۲	Capital Town						
•	Town						
Administrative Boundary							
	Regional						
	Provincial						
	City						
	Municipal						
Map I	ndex						
	Index grid						
Торо	graphic Relief						
Bathy	/metry						



LAND SUITABILITY MAP FOR CACAO

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS QUEZON, REGION IV-A

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

						EXP	ANSION A	REA (Ha)			CONF	LICT RES	OLUTION	(Ha)		TOTAL
MUNICIPALITY	EXISTI	NG CACA	0 (Ha)	TOTAL EXISTING AREA (Ha)	Cocon	ut	Shrub unman		Grass unman		Со	rn	-	oaddy, rigated	Other	crops	TOTAL POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (11a)
AGDANGAN	-	-	-	-	2,922	-	-	-	66	-	66	-	5	-	-	-	3,060
ALABAT	-	-	-	-	2,699	32	250	40	474	-	474	7	44	-	-	-	4,021
ATIMONAN	-	-	-	-	6,911	205	349	262	340	-	340	16	149	-	-	-	8,572
BUENAVISTA	2	-	58	60	6,894	559	31	-	1,337	243	1,580	425	117	10	-	-	11,197
BURDEOS	-	-	-	-	3,384	-	10,404	-	281	-	281	4	372	-	-	-	14,726
CALAUAG	-	-	-	-	18,993	-	2,306	-	1,263	-	1,263	6	101	-	-	-	23,933
CANDELARIA	-	-	-	-	4,294	16	76	81	3,222	32	3,222	85	1,789	-	-	-	12,818
CATANAUAN	-	-	-	-	13,463	-	213	-	3,753	-	3,753	62	276	-	-	-	21,521
CITY OF TAYABAS	25	-	92	117	13,448	505	524	112	1,608	217	1,608	286	876	-	-	-	19,185
DOLORES	-	-	-	-	1,696	-	2,420	212	754	13	754	56	107	-	-	-	6,012
GENERAL LUNA	-	-	-	-	6,174	-	85	-	989	-	989	13	-	-	-	-	8,251
GENERAL NAKAR	-	-	-	-	1,041	10	240	7	81	4	81	6	224	2	-	-	1,696
GUINAYANGAN	-	-	-	-	12,762	-	2,963	12	147	-	147	6	101	-	-	-	16,139
GUMACA	-	-	-	-	11,829	10	-	-	397	-	397	24	-	-	-	-	12,657
INFANTA	-	-	-	-	1,577	34	80	-	1,213	-	1,213	-	204	-	-	-	4,321
JOMALIG	-	-	-	-	21	-	3,384	-	338	-	338	-	-	-	-	-	4,081
LOPEZ	-	-	-	-	22,832	-	1,502	-	432	-	432	75	433	-	-	-	25,707
LUCBAN	-	-	-	-	5,142	702	1,330	158	743	171	743	193	249	-	-	-	9,430
LUCENA CITY	-	-	-	-	2,189	29	-	-	2,543	2	2,545	-	918	2	-	-	8,228
MACALELON	-	-	-	-	5,542	90	772	-	379	-	379	41	-	-	-	-	7,203
MAUBAN	-	-	-	-	6,989	18	3,460	556	448	-	448	36	207	-	-	-	12,160
MULANAY	-	-	-	-	15,099	311	1,398	5	870	-	870	207	284	-	-	-	19,044
PADRE BURGOS	-	-	-	-	4,112	-	80	-	160	-	160	3	14	-	-	-	4,529
PAGBILAO	1	4	36	41	6,734	1	481	214	894	-	894	4	749	-	-	-	9,972
PANUKULAN	-	-	-	-	4,741	-	2,423	-	360	-	360	31	34	-	-	-	7,949
PATNANUNGAN	-	-	-	-	3,140	-	4,395	-	82	-	82	-	68	-	-	-	7,767
PEREZ	28	-	39	67	2,970	-	50	-	91	-	91	4	-	-	-	-	3,205
PITOGO	-	-	-	-	6,125	-	-	-	339	-	339	3	-	-	-	-	6,807
PLARIDEL	-	-	-	-	686	12	-	-	47	-	47	2	6	-	-	-	801
POLILLO	49	5	44	98	10,521	915	6,358	174	298	-	298	1	352	-	-	-	18,917
QUEZON	21	5	93	119	3,511	94	19	-	419	-	419	10	-	-	-	-	4,473
REAL	2	-	46	48	234	-	611	-	27	-	27	-	8	-	-	-	907
SAMPALOC	-	-	-	-	1,108	-	2,909	87	82	-	82	20	13	-	-	-	4,301
SAN ANDRES	-	-	-	-	742	223	304	178	5,646	2,164	7,810	1,914	573	15	-	-	19,569
SAN ANTONIO	-	-	-	-	5,458	30	22	-	-	-	-	-	-	-	-	-	5,510
SAN FRANCISCO	-	-	-	-	9,115	1,250	915	610	4,793	2,621	7,414	816	453	28	-	-	28,016
SAN NARCISO	37	-	18	55	6,166	297	1,942	25	3,941	59	4,000	925	325	11	-	-	17,691
SARIAYA	-	-	-	-	9,644	141	24	43	4,742	411	4,742	566	2,551	-	21	-	22,886
TAGKAWAYAN	-	-	-	-	10,086	19	15,046	249	504	-	504	25	414	-	-	-	26,846
TIAONG	-	-	-	-	4,436	-	1,571	4	1,170	-	1,170	-	967	-	-	-	9,319
UNISAN	-	-	-	-	8,204	-	-	-	598	-	598	2	53	-	-	-	9,455
TOTAL	166	14	426	606	263,634	5,501	68,940	3,030	45,873	5,937	50,962	5,876	13,040	68	21	-	462,883

ו the onset of rainy season. *establishment of shade trees prior to planting of cacao.

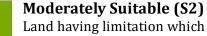
AGRONOMIC REQUIREMENT OF CACAO PRODUCTION

LAND TILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTIO (pH)	N INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE					1		<u> </u>	
	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	40				-	\sim		
Cacao	S2	8 - 30	50 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8		moderate	moderate	common	1000-1500	1000-2000	I, II		00				X		
	S3	>30	<50	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	9 low	severe	severe	many	>1500	<1000 >4500		10	00		11-		\sim		
PE (%)	1 1		SOIL DRAINAG	GE	+	SOIL REACTI	ON (pH)	+	SOIL TEXTURE	2	-	+			0		2				
- leve	el to gently sloping		ED - exe	cessively drained		< 4.5 - ex	xtremely acid		Coarse		F	ïne			JAN FEE	MAR	APR MAY	Y JUN JUL	AUG SEP OCT NOV	DEC	
	tly sloping to undu			ell drained			ery strongly acid		S - sar	nd	S		clay			IBA, ZA	AMBALES (Typ	oe I)	D DEL NORTE (Type II)		
- unc	lulating to rolling		MWD - mo	oderately well drained	đ	5.1 - 5.5 - st	trongly acid		LS - loa	my sand	S	iC - silty cl	ay			CABAN	NATUAN (Type	e III) MALAYB	ALAY (Type IV)		
	ing to moderately	steep	SPD - so	mewhat poorly draine	ed	5.6 - 6.0 - m	nedium acid		CSL - coa	arse sandy loam	С	- clay			DAGAGA GG	a strategy with					
50 - stee	ep		PD - po	orly drained			lightly acid		SL - sar	ndy loam	Η	IC - heavy	clay	Sou			•	als (Rainfall), Philipp		2010	
- ver	y steep		VPD - ve	ry poorly drained			eutral		Medium										n (PAGASA), accessed 27 July e/climatological-normals>.	2018,	
						7.3 - 7.8 - m	nildly alkaline		FSL - fin	e sandy loam					-mups.//w	, w 1.pagasa.	aosagov.pi	in much.php/chillatt			
DEPTH (c	m)		SURFACE IMP	EDIMENT		7.9 - 8.4 - m	noderately alkaline		L - loa	m											
) - ver	y shallow		ROCK OUTCRO	PS		> 8.5 - st	trongly alkaline		SiL - silt	loam											
50 - sha	llow		<10% - no	ne - few					CL - cla	y loam				CODE LAND LIMITATION	CODE LAND	ΙΜΙΤΑΤΙΟΝ	CODE	LAND LIMITATION	CODE LAND LIMITATION	CODE	LAND
100 - mo	derately deep		10 - 30% - co	mmon					SiCL - silt	y clay loam				CODELAND LIMITATION1E2-Sh2-Rc2	CODE LAND 11 T2			T2-F2-D2	31 T3-El2-E3-Sh2-Rc3		
0 - dee	p to very deep		> 30% - ma	any					SCL - sar	ndy clay loam				2 El2	11 12 12 T2-E3			T2-F3-D2	32 T3-El2-E3-Sh3-Rc2		Rice paddy, nor
														3 El2-Rc2	12 12 13 13 T2-E3		23	T3	33 T3-El2-E3-Sh3-Rc3	_	Corn
														4 El2-Sh2-Rc2	14 T2-E3			T3-E3	34 T3-El3-E3-Sh3-Rc2		Coffee
	AITATIONS	DESCRIP		COMBINAT	IONS									5 El2-Sh2-Rc3	15 T2-E3	Sh2-Rc2	25	T3-E3-Rc2	35 T3-El3-E3-Sh3-Rc3		Cacao
														6 El3-Sh2-Rc2		Sh2-Rc3		T3-E3-Rc3	36 T3-F2-D2	82	
VATION			SOIL DRAINA				SOIL DEPTH			SOIL EROSION				7 F2-D2	17 T2-El2			T3-E3-Sh2-Rc3	37 T3-F3-D2		Grassland
				what poorly drained t			Sh2 - Moderately d			E2 - Moderate				8 F3-D2		-E3-Sh2-Rc2		T3-E3-Sh3-Rc2	38 Tc	116	Coconut Grassland
	•		D3 - Very p	poorly drained or exce	essively drained		Sh3 - Very shallow	to shallow (< 50	lcm)	E3 - Severe er	osion			9 Sh2 10 Sh2-Rc2		-E3-Sh2-Rc3 -E3-Sh2-Rc2		T3-E3-Sh3-Rc3 T3-El2		126	Grassland Shrubland, unn
	1															1.02					
- > 1500m			SOIL TEXTU	RE			ROCK OUTCROPS			FLOODING											
- 1000m - - > 1500m OPE/TOPOG - Undulati		steep	SOIL TEXTU Tc - Coarse				ROCK OUTCROPS Rc2 - Common			FLOODING F2 - Moderate	seasonal flooding										

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.

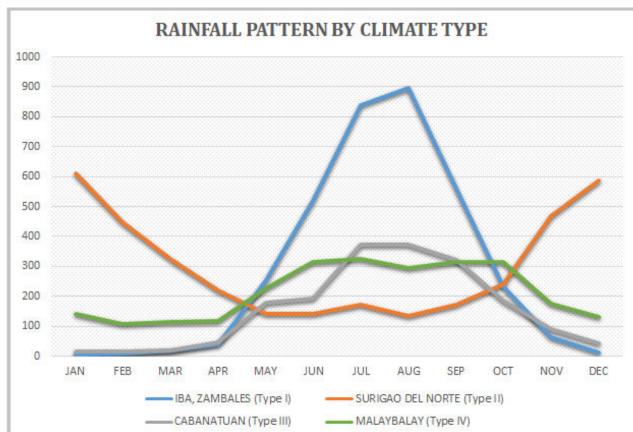


Land having limitation which in aggregate are moderately severe for sustained application of a given use; the limitation will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably 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
- **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.

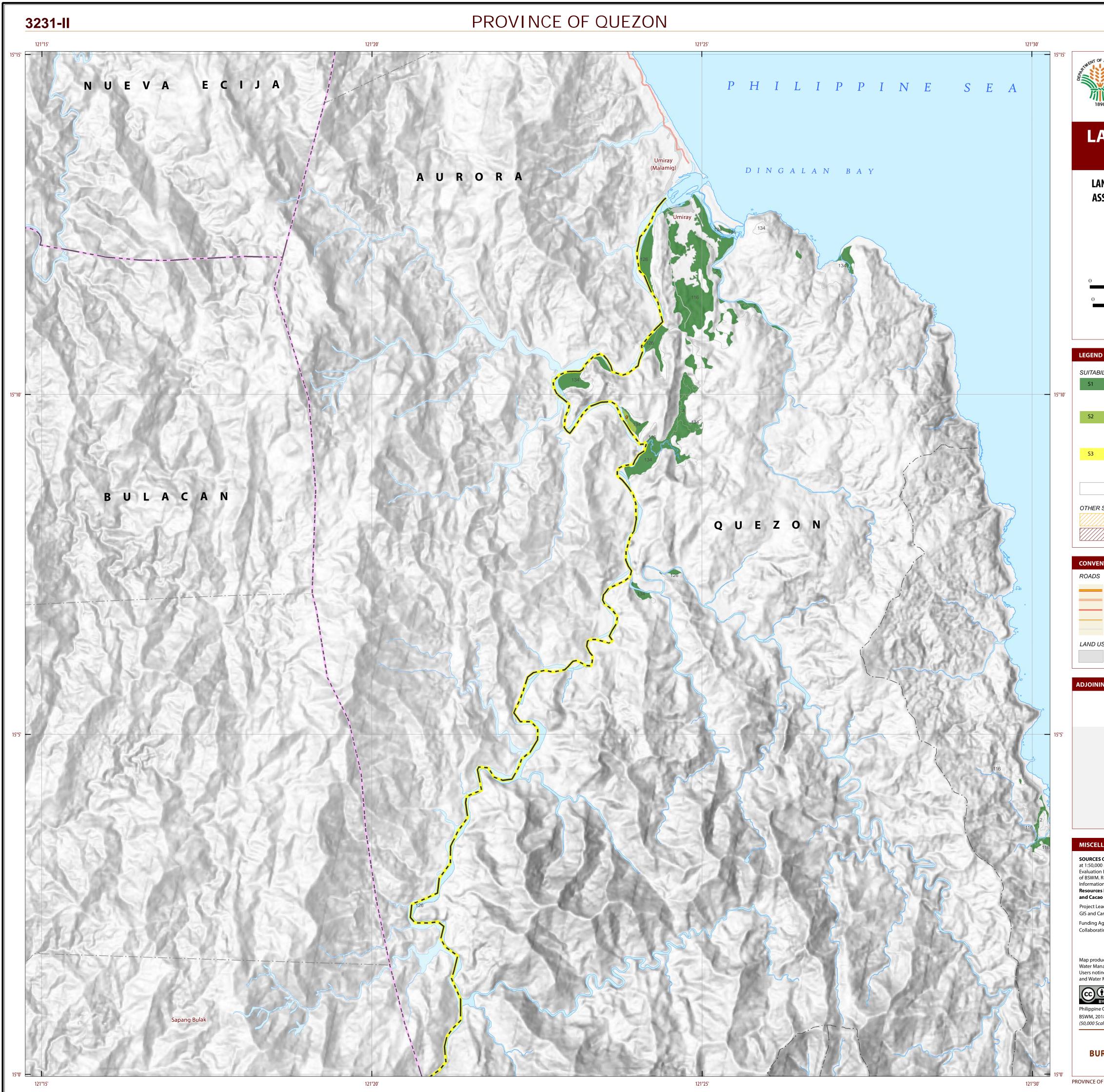
Western part of Quezon Province is classified as climatic Type II.



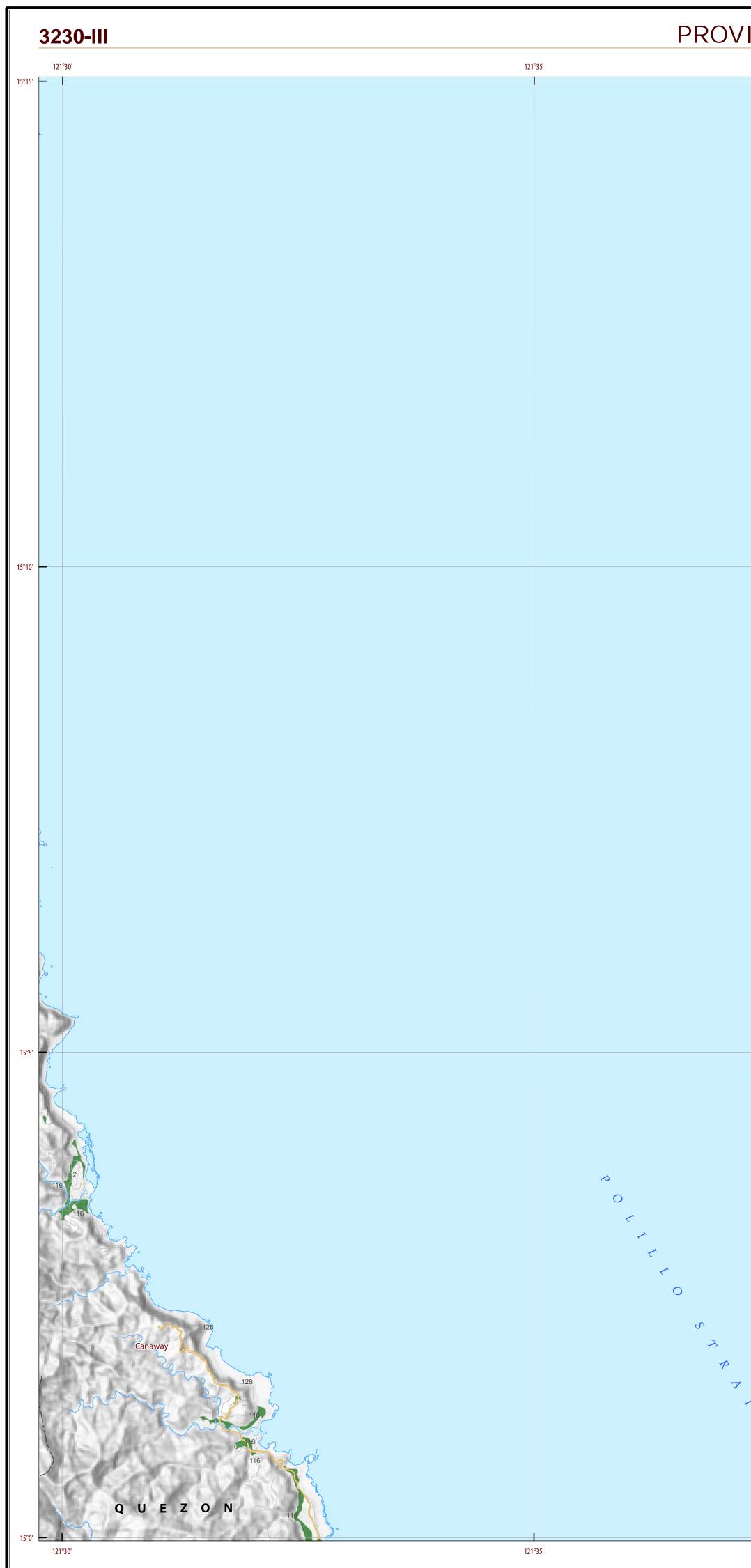
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

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.

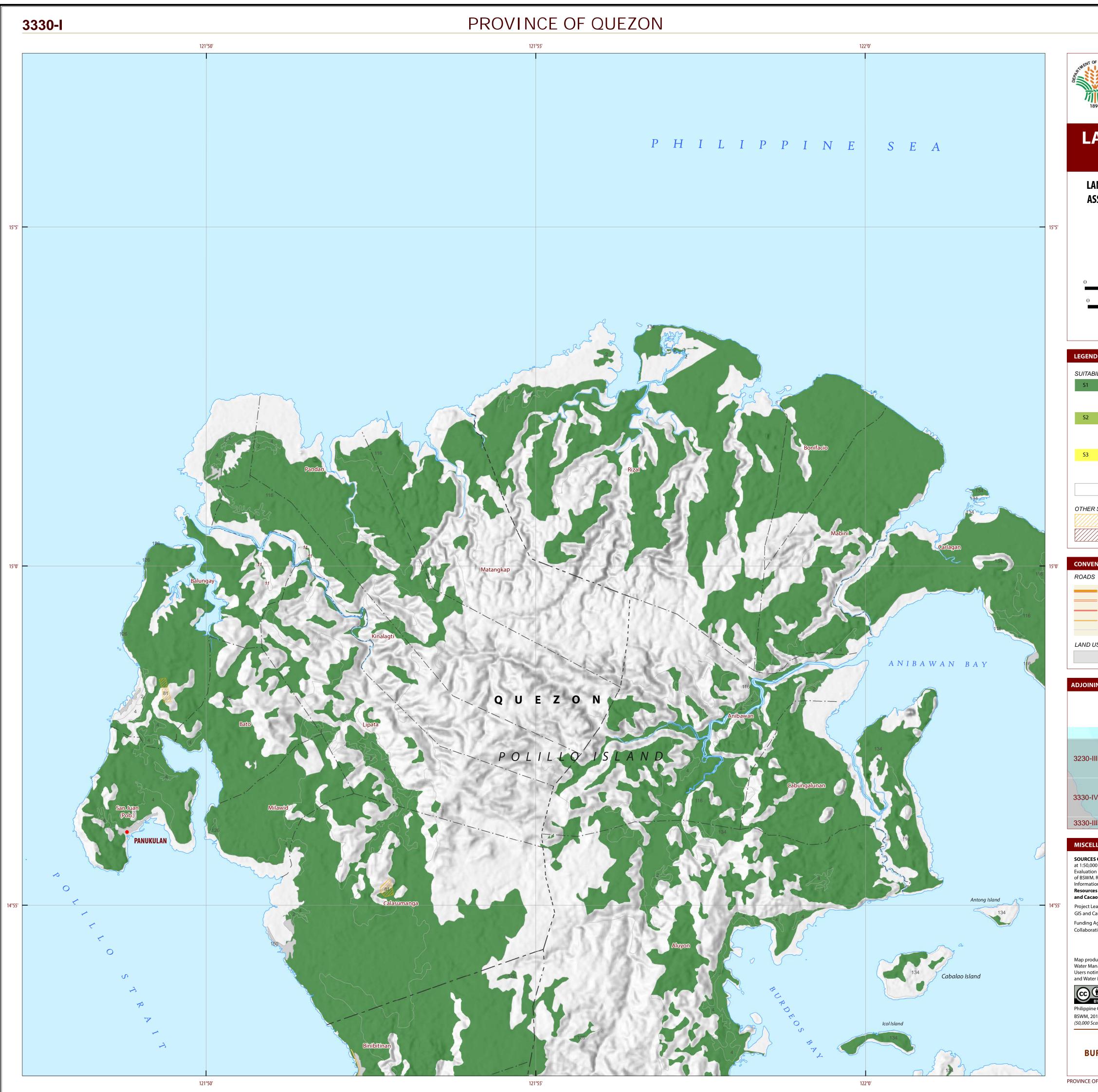


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SIGNS NGP Areas Cacao	Land lim Land use		
NTIONAL SIGNS			
B B	OUNDARY	HYDROLO	DGY
Expressway Trunk line Primary Secondary Tertiary JSE Built-up	 Region Province District Municipali Barangay Fishpond 	 • C 	Sea / Shoreline Lakes / Rivers apital City / City apital Town / Town grove
Trunk line Primary Secondary Tertiary JSE Built-up	Province District Municipali Barangay	ty 😿 ★ C	Lakes / Rivers apital City / City apital Town / Town
Trunk line Primary Secondary Tertiary JSE Built-up	 Province District Municipali Barangay 	ty 😿 ★ C	Lakes / Rivers apital City / City apital Town / Town grove
Trunk line Primary Secondary Tertiary JSE Built-up	 Province District Municipali Barangay 	ty 😿 ★ C	Lakes / Rivers apital City / City apital Town / Town grove
Trunk line Primary Secondary Tertiary JSE Built-up	 Province District Municipali Barangay 	ty 😿 ★ C	Lakes / Rivers apital City / City apital Town / Town grove
Trunk line Primary Secondary Tertiary USE Built-up ING SHEETS 3231-I 3231-II	 Province District Municipali Barangay 	ty 😿 ★ C	Lakes / Rivers apital City / City apital Town / Town grove
Trunk line Primary Secondary Tertiary JSE Built-up ING SHEETS 3231-I 3230-I 3230-I SOF INFORMATION : Tr 0 scale. Land resources n Division (ALMED), Soi Rice areas obtained fro on System (PRISM) (IRR es Evaluation and Suit	Province District Municipali Barangay Fishpond	ty 😧 🖈 C	Lakes / Rivers apital City / City apital Town / Town grove PEX MAP
Trunk line Primary Secondary Tertiary	Province District Municipali Barangay Fishpond 3230-III 3230-III 3330-IV MATION	ty	Lakes / Rivers apital City / City apital Town / Town grove EX MAP EX MAP A A B A A A A A A A A
Trunk line Primary Secondary Tertiary	Province District Municipali Barangay Fishpond 3230-III 3330-IV MATION MATION Dipographic information information from the A is Survey Division (SSD m the Land Use System information from the A is Survey Division (SSD m the Land Use System of the Land Use System of the Land Use System of the Land Use System of the SWM (2017). ARD B. PASCUA K. SAMALCA artment of Agriculture - opine Council on Agricu artment of Agriculture - ty, VII, VIII, IX, X, XI, XII a I Government Unit (LGU artment of Agriculture - ty VI, VII, VIII, X, X, X, XII a I Government Unit (LGU and Soil Information T in this publication are u ublication is licensed us atom the survey of the survey of the survey of the survey of the survey of the survey of the survey of the survey of the survey is the survey of the	ty	Lakes / Rivers apital City / City apital Town / Town grove PEX MAP PEX MAP PEX MAP Anagement and evices Division (LSD) Philippine Rice rough the Land cion Areas for Coffee tural Research (DA-BAR) s (PCAF) te of CAR, Region II, IV-A, nces and municipalities h, Bureau of Soils and in the Bureau of Soils monors Attribution 4.0 copyright and any other s owned by the
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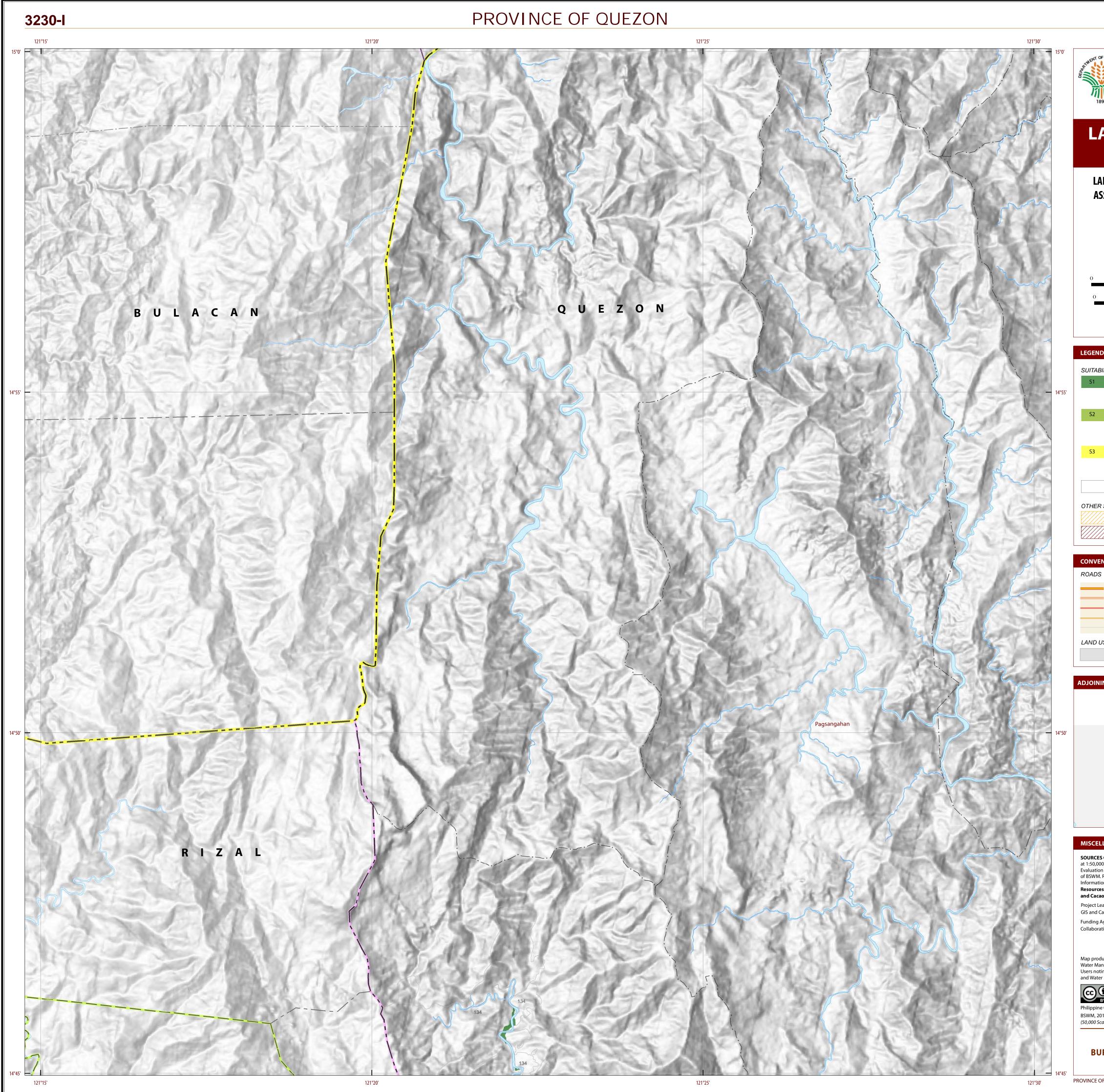


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											OTHER SI
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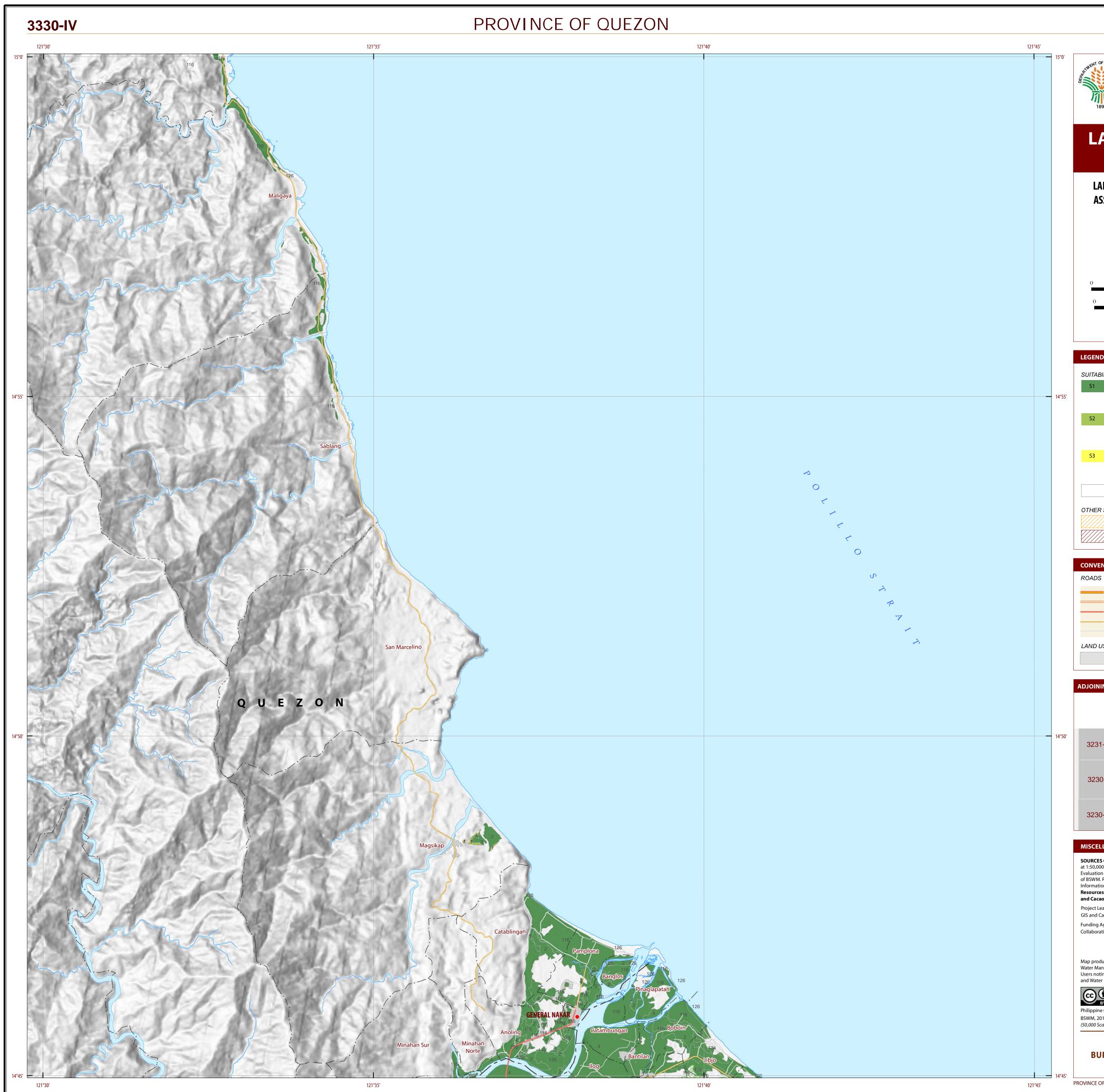
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BILITY CLASSES Highly Suitable - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not signifi- cantly reduce productivity or benefits and will not raise inputs above an acceptable level. Moderately Suitable - Land having limitations which in aggregate are
 moderately severe for sustained application of a given use; the limitations 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. Marginally Suitable - 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
NGP Areas 1 Land limitation Cacao Land use
NTIONAL SIGNS BOUNDARY HYDROLOGY
 Expressway Trunk line Primary Secondary Tertiary Region Province District PLACES Capital City / City Barangay Capital Town / Town
Iertiary Barangay O Capital Town / Town JSE Built-up Fishpond Mangrove
ING SHEETS INDEX MAP
3230-III
1-II 3230-III 3330-I
0-I 3330-IV 3330-II
LANEOUS INFORMATION S OF INFORMATION : Topographic information taken from NAMRIA Topographic Map 00 scale. Land resources information from the Agricultural Land Management and n Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) . Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice on System (PRISM) (IRRI, 2015). Data analysis and compilation through the Land
est Evaluation and Suitability Assessment of Strategic Production Areas for Coffee ao Project implemented by BSWM (2017). eader : BERNARDO B. PASCUA Cartography : IRVIN K. SAMALCA
Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR) ating Agencies : Philippine Council on Agriculture and Fisheries (PCAF) : Department of Agriculture Regional Field Office of CAR, Region II, IV-A, IV-B, VI, VII, VIII, IX, X, XI, XII and CARAGA(XIII) : Local Government Unit (LGU) of covered provinces and municipalities duced by the Geomatics and Soil Information Technology Division, Bureau of Soils and anagement (BSWM).
Image: Series of the series
D18. Land Suitability Map Series for Cacao of the PROVINCE OF QUEZON cale) . CC BY NC SA 4.0. REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE IREAU OF SOILS AND WATER MANAGEMENT
SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@yahoo.com OF QUEZON Sheet 2 of 33 Sheet No. 3230-III



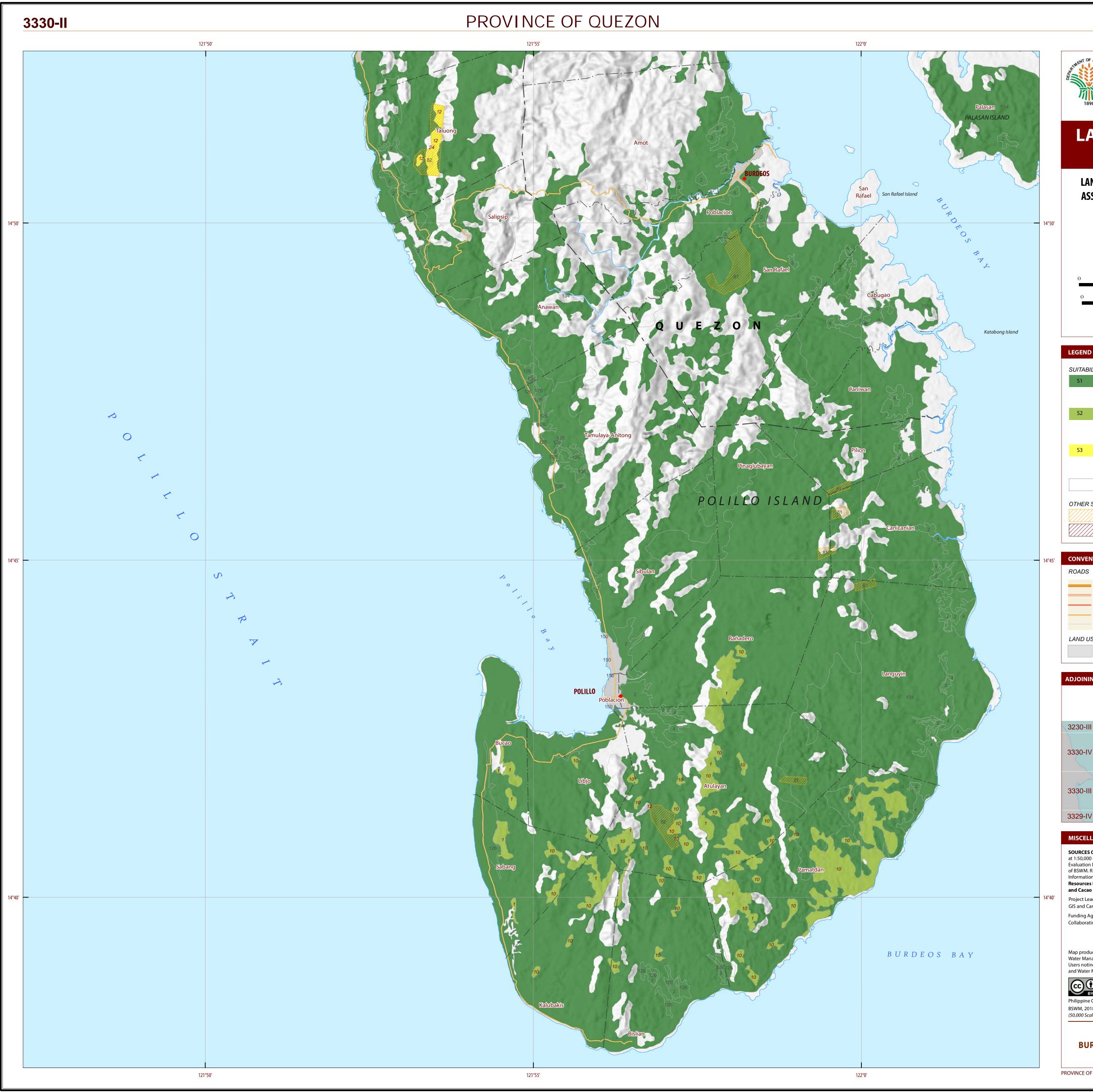
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В	OUNDARY	HYDR	
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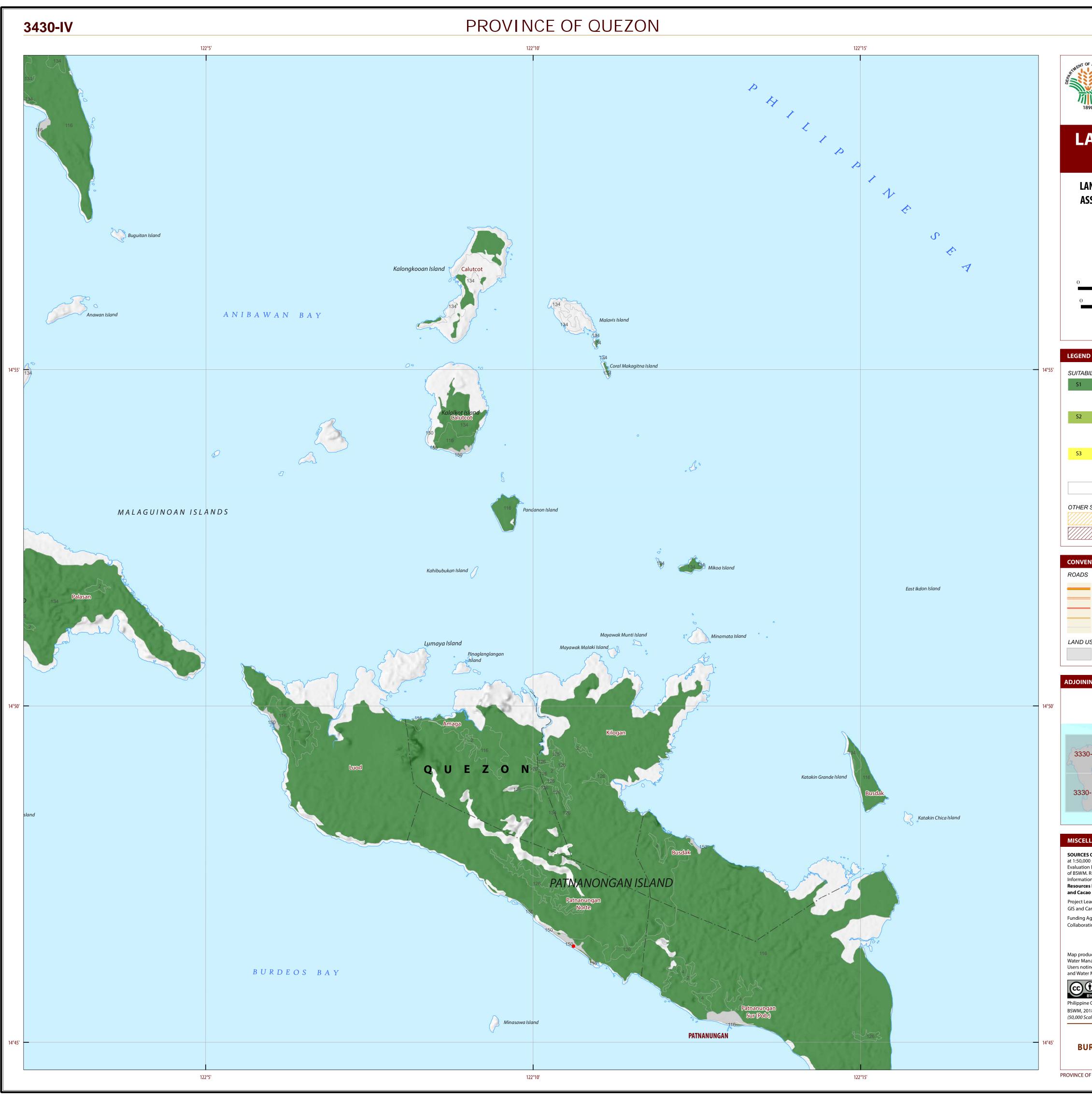
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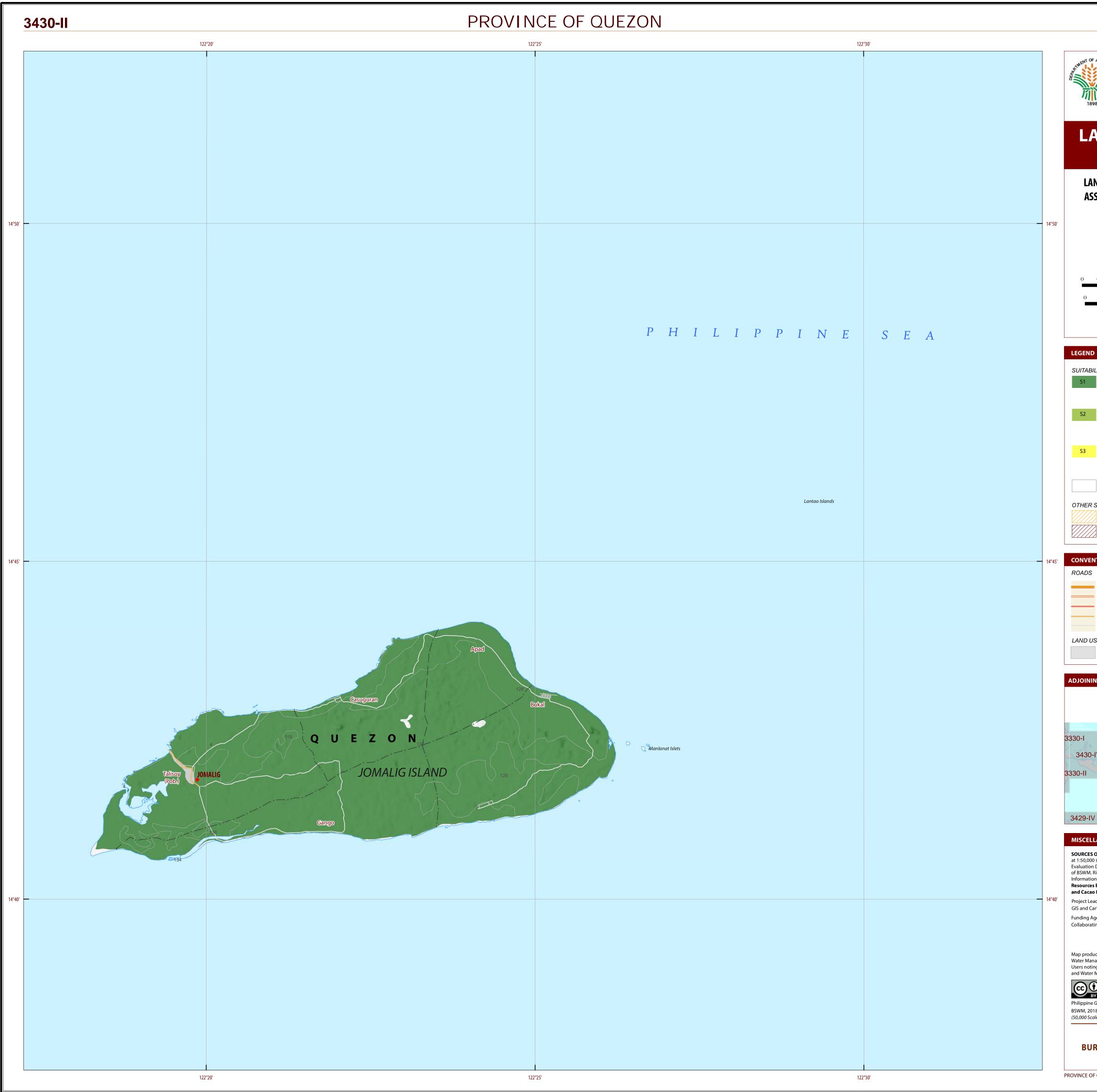
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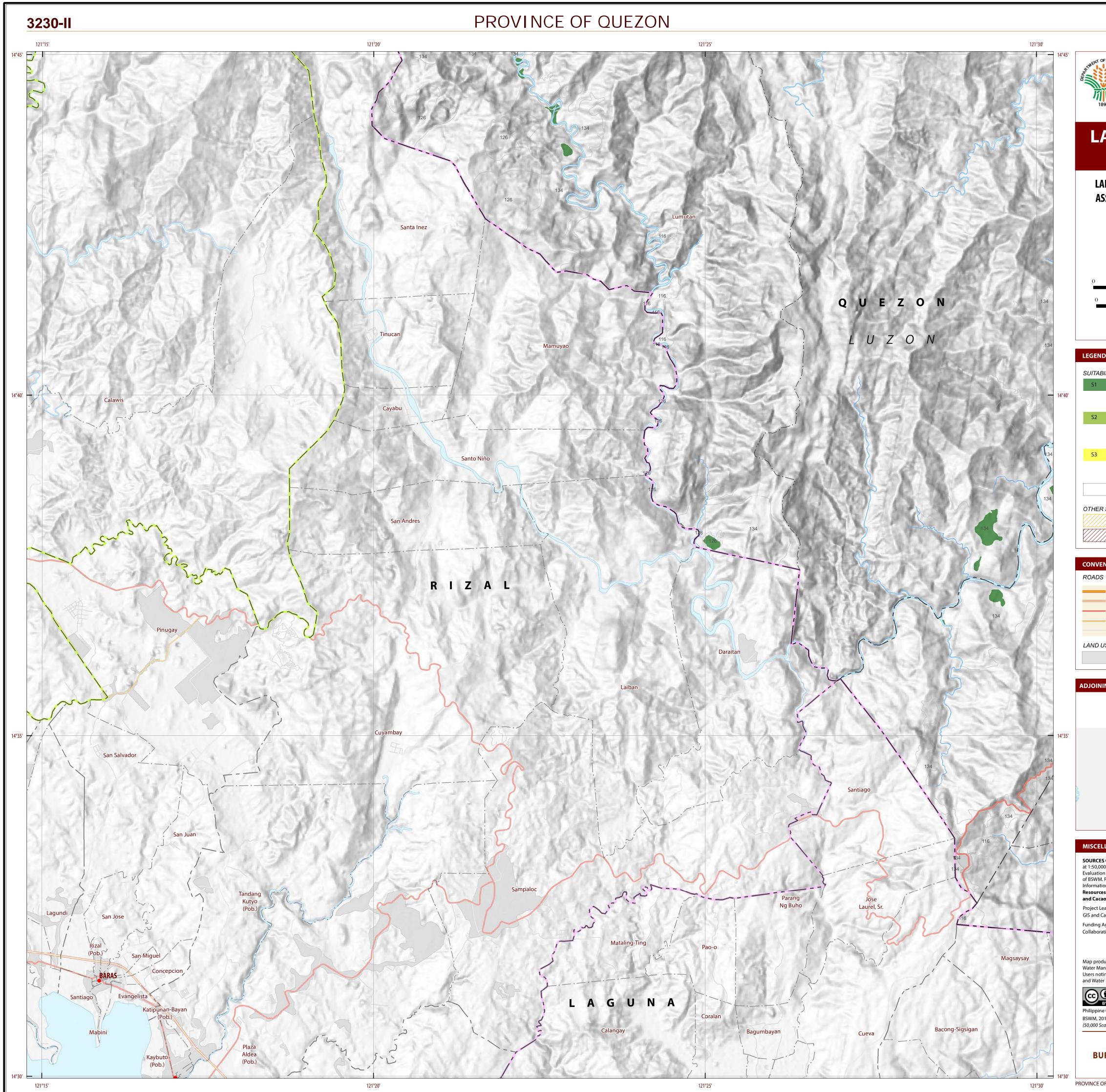
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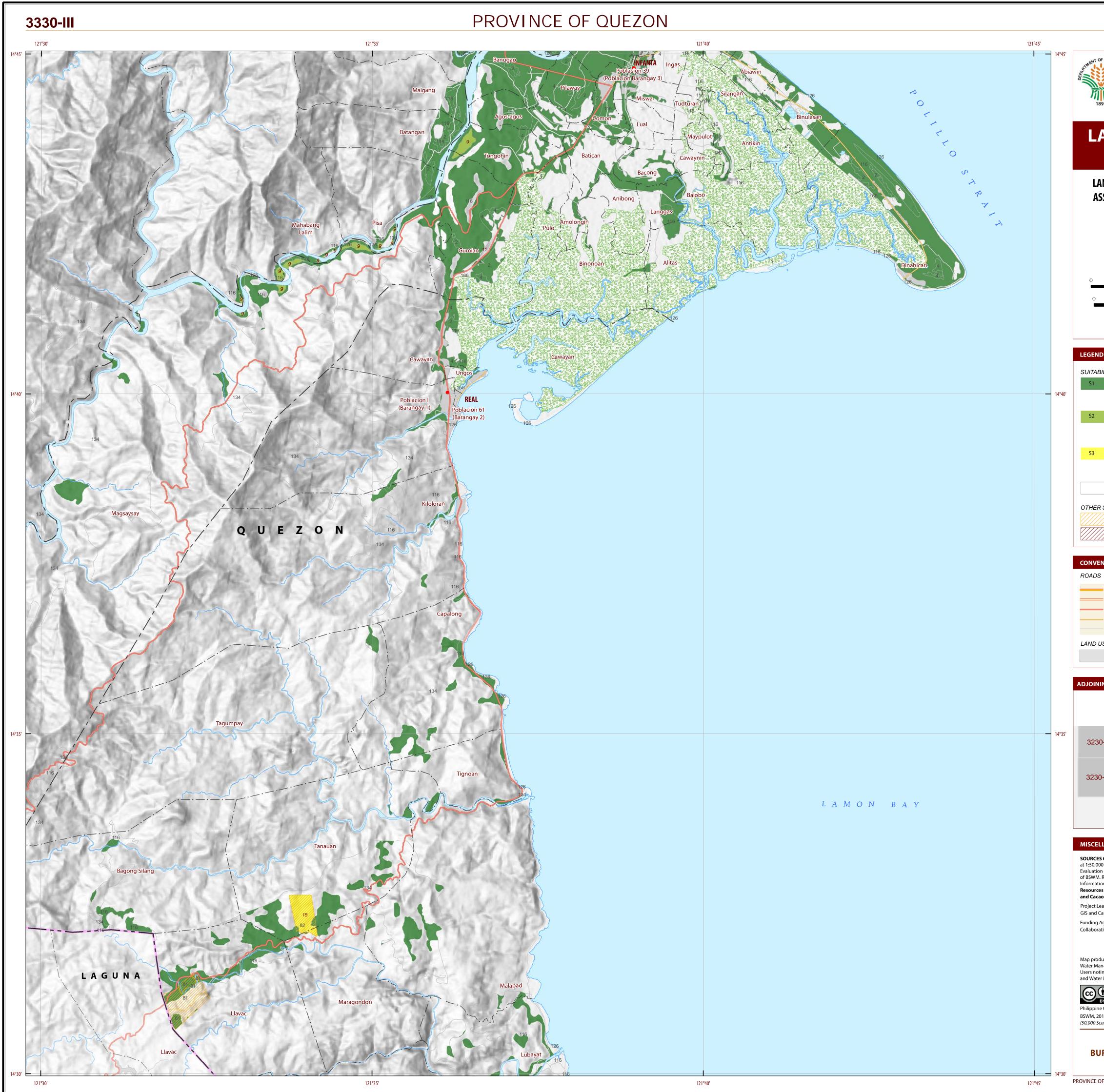
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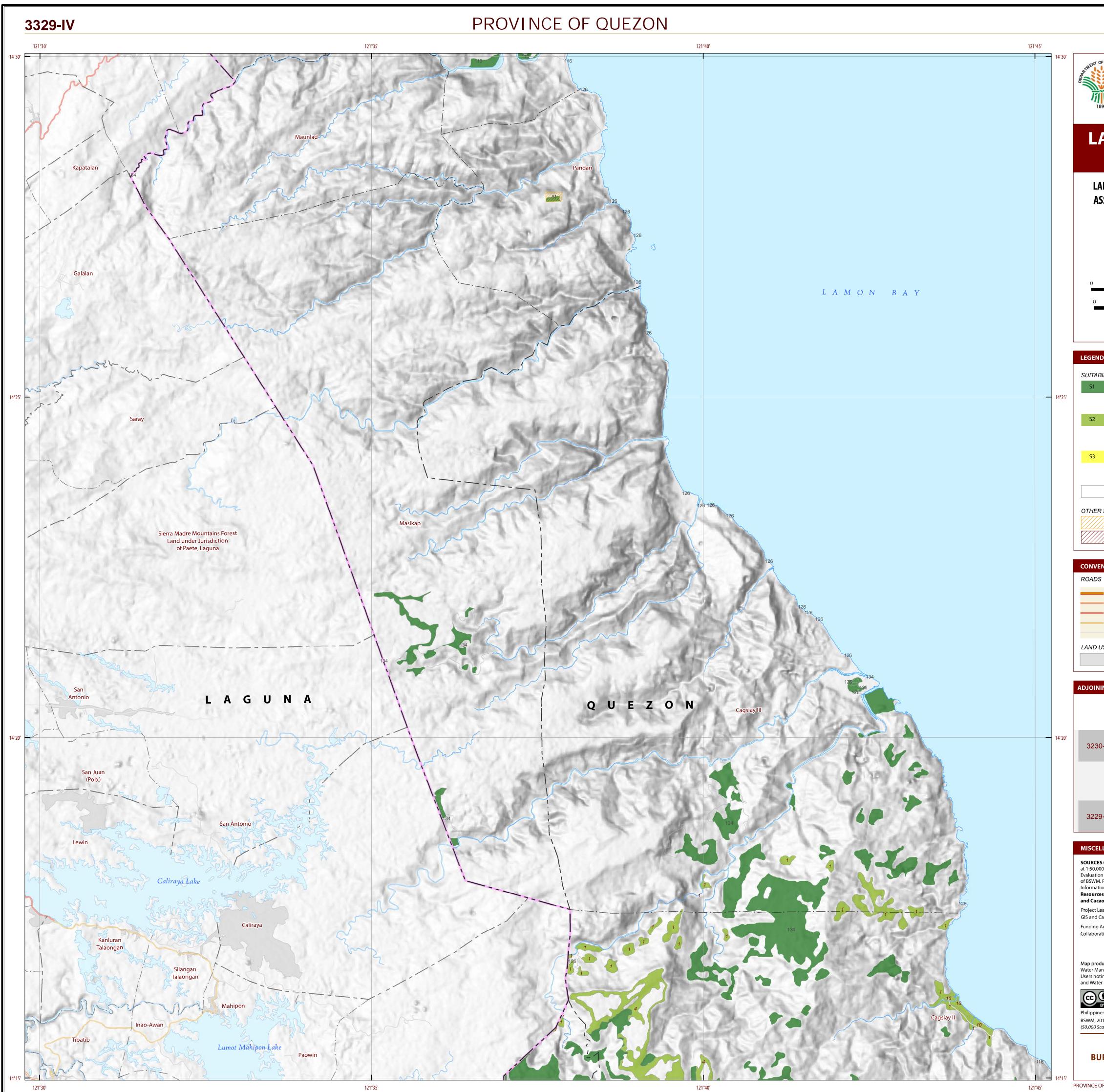
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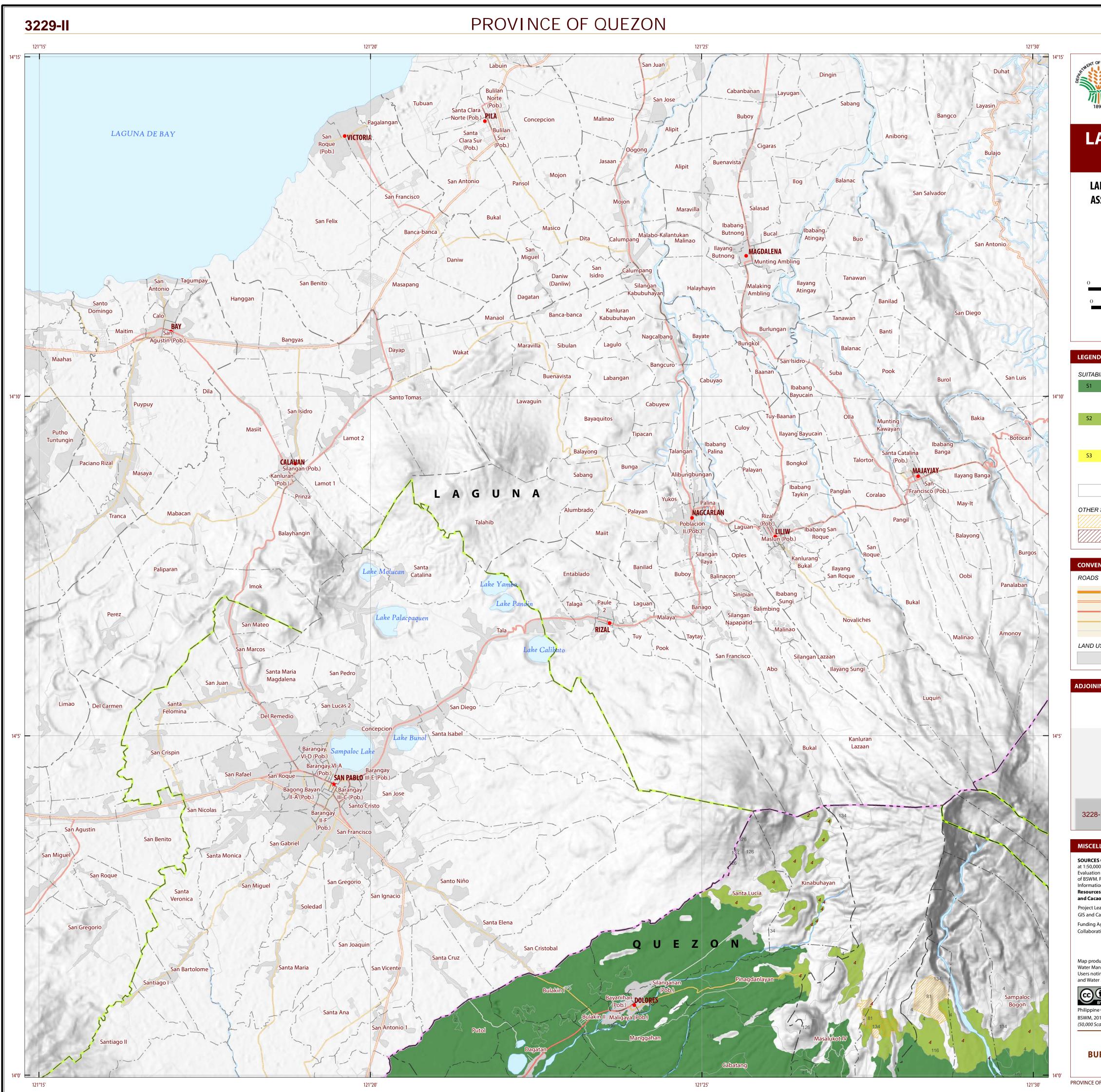
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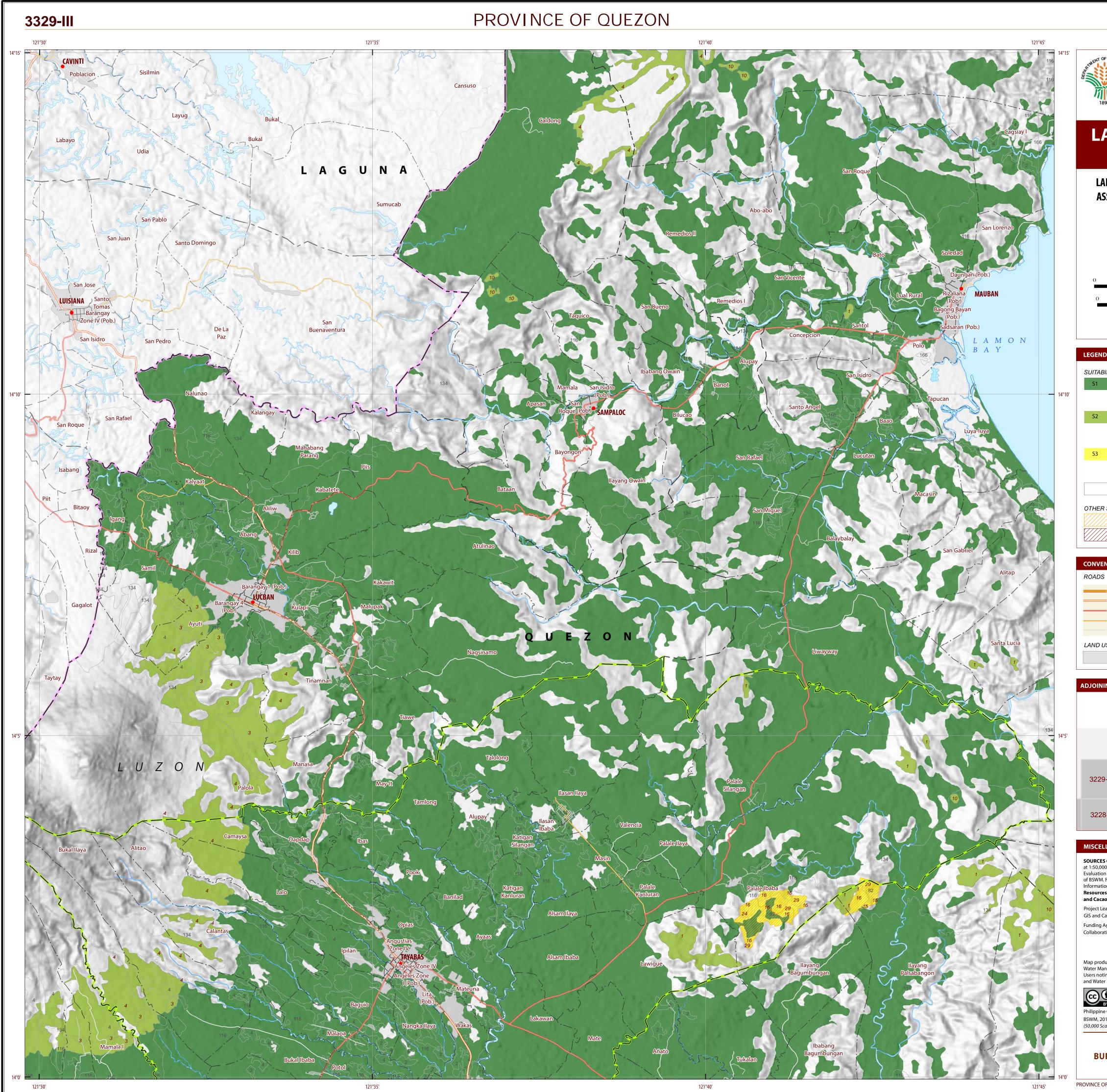


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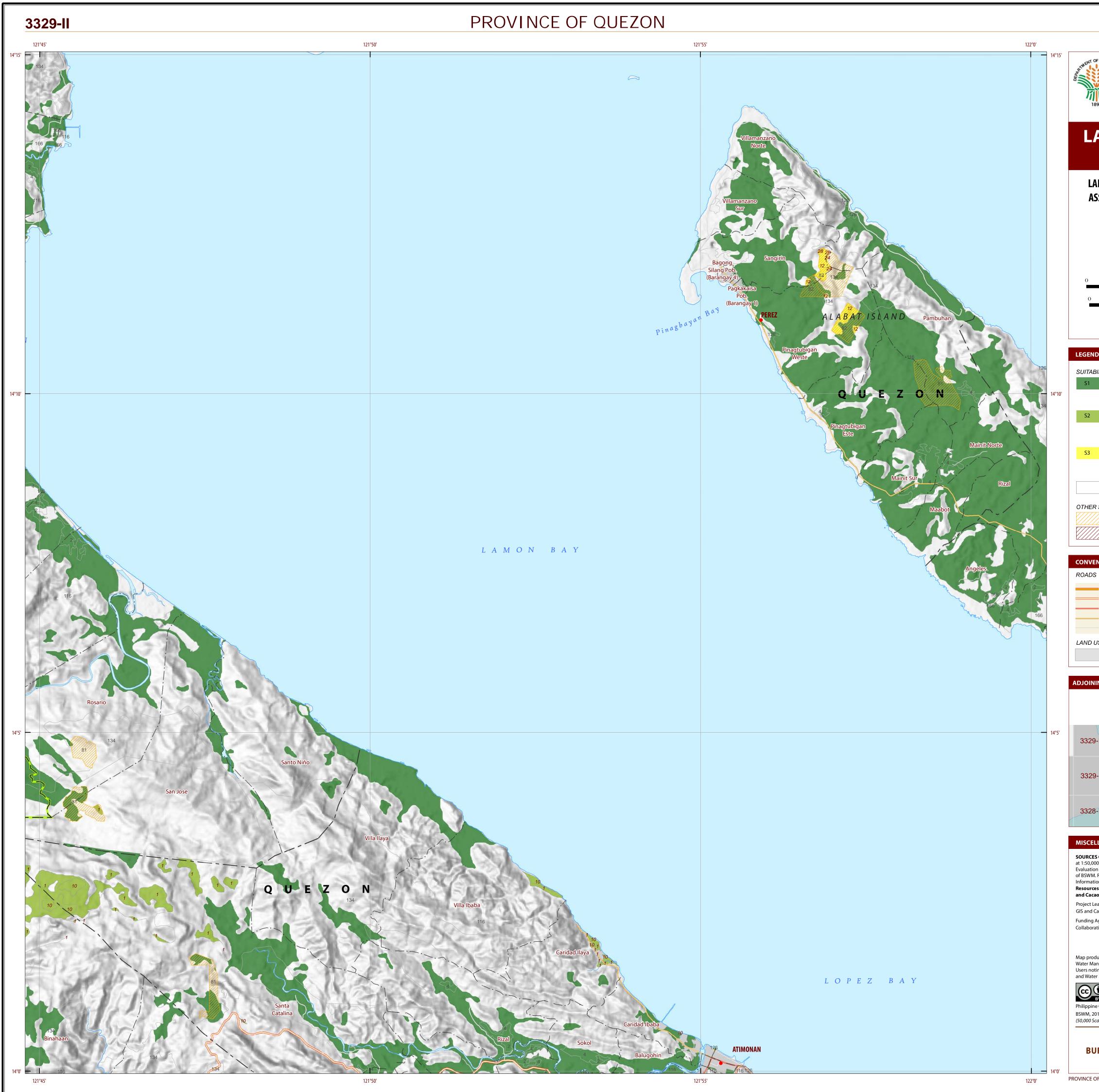
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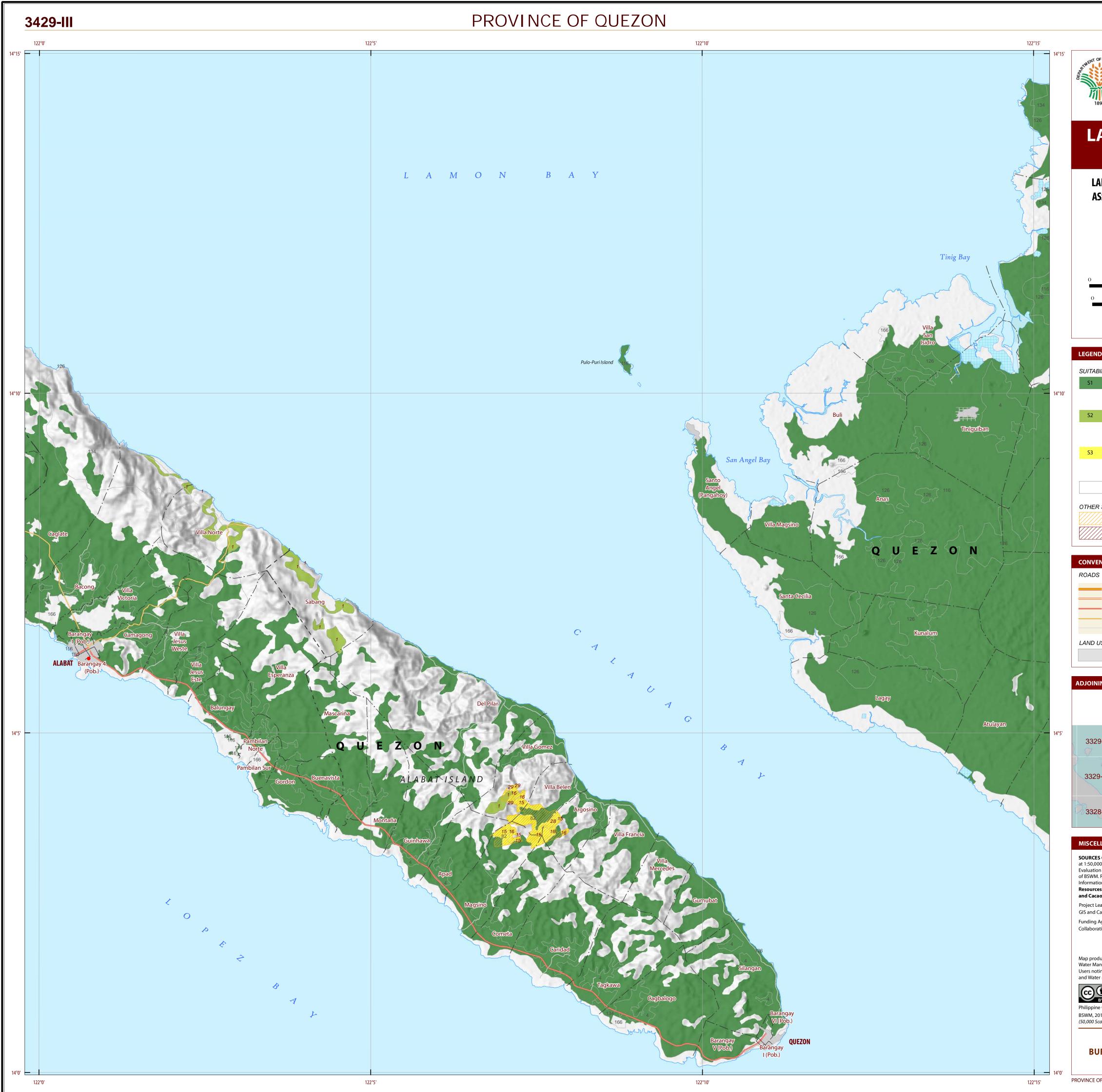
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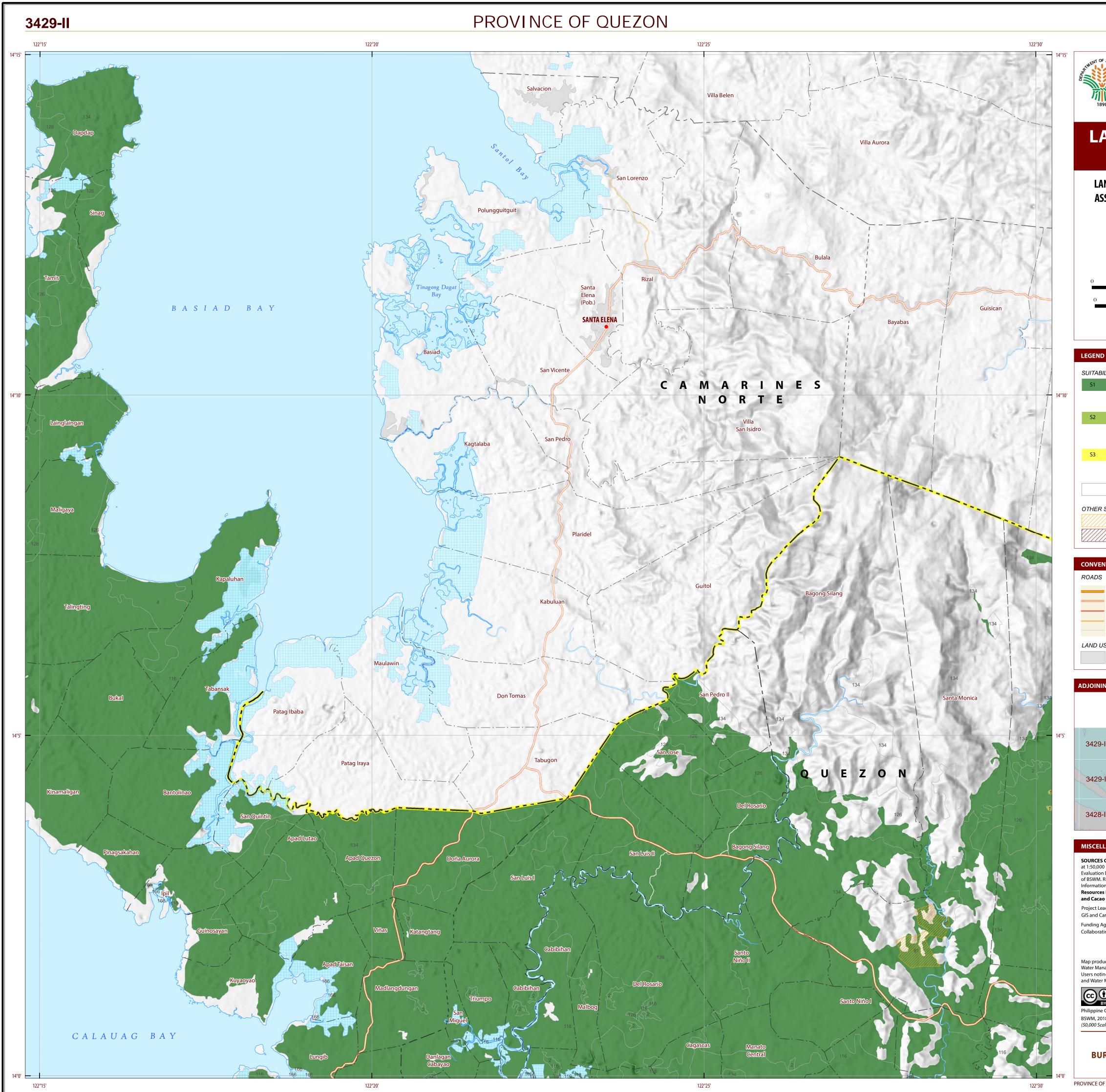
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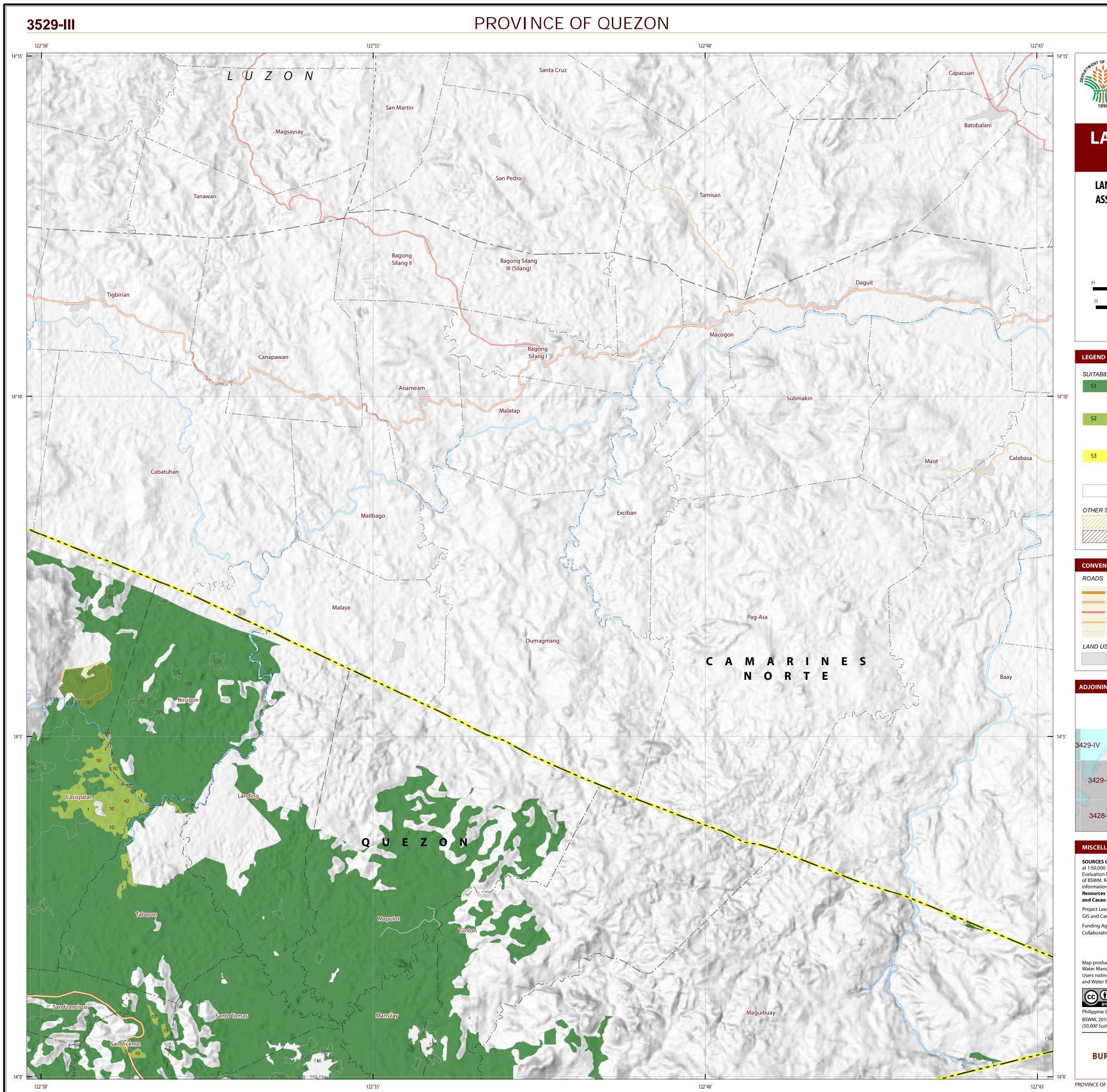
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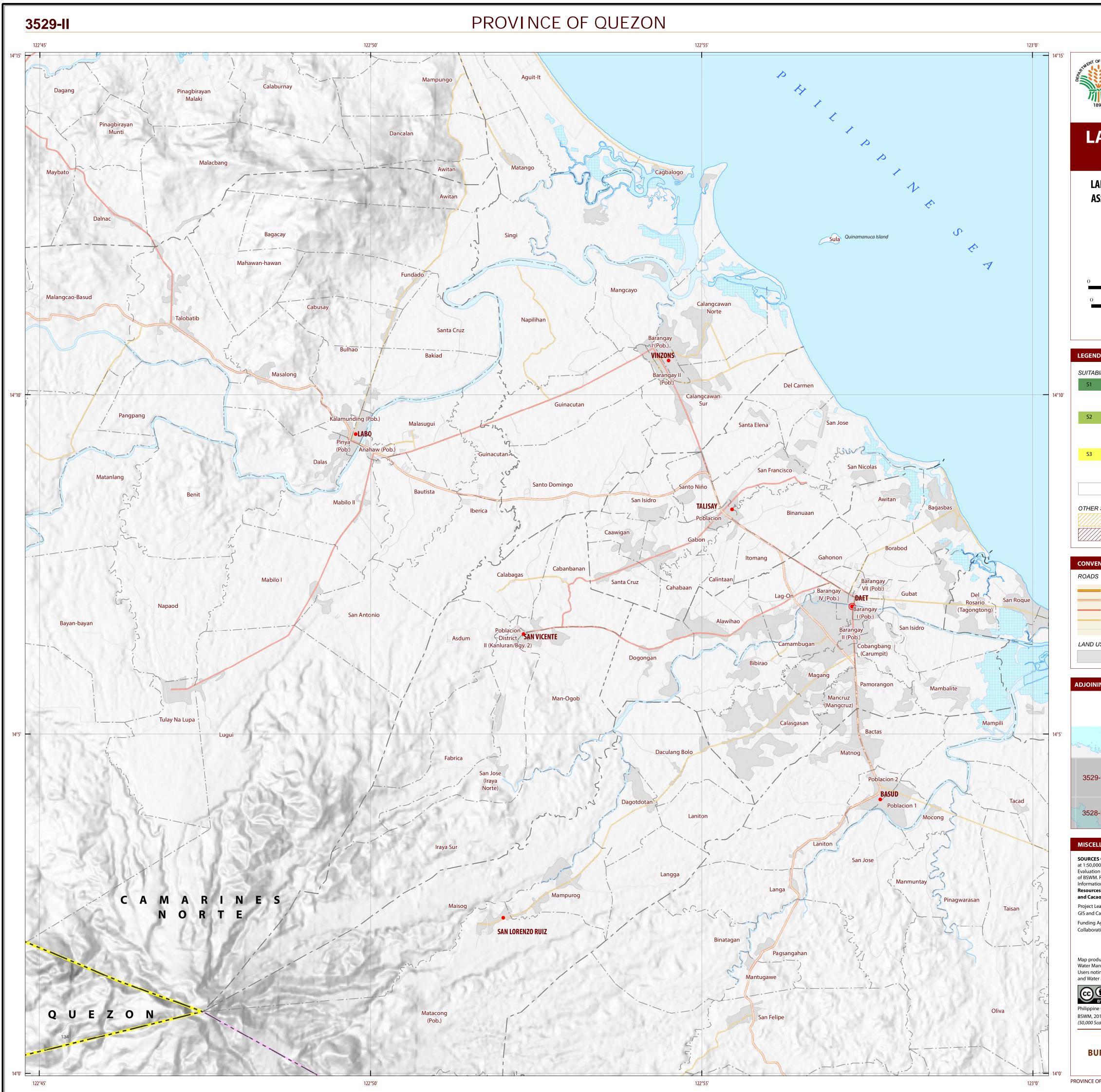
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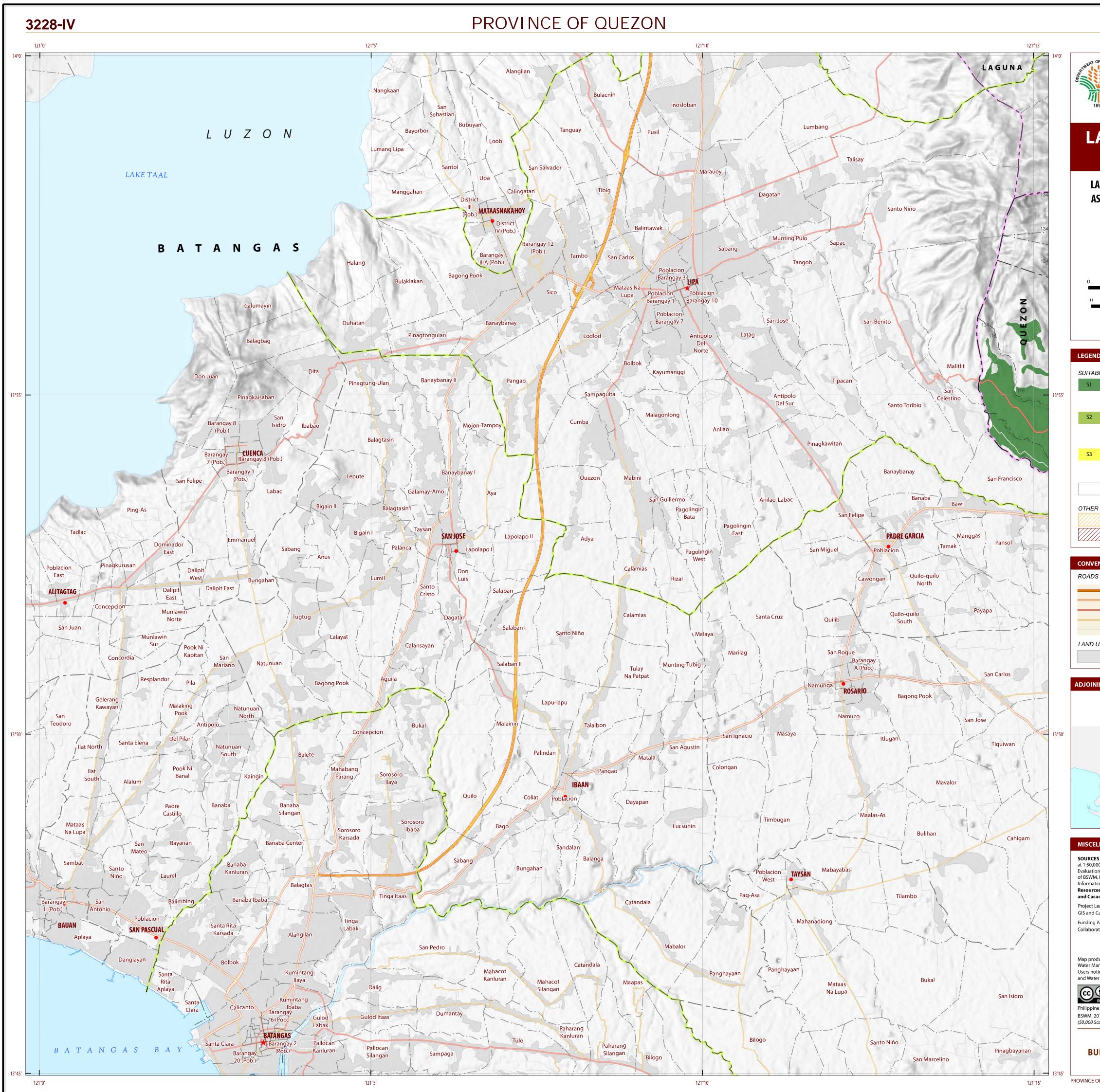
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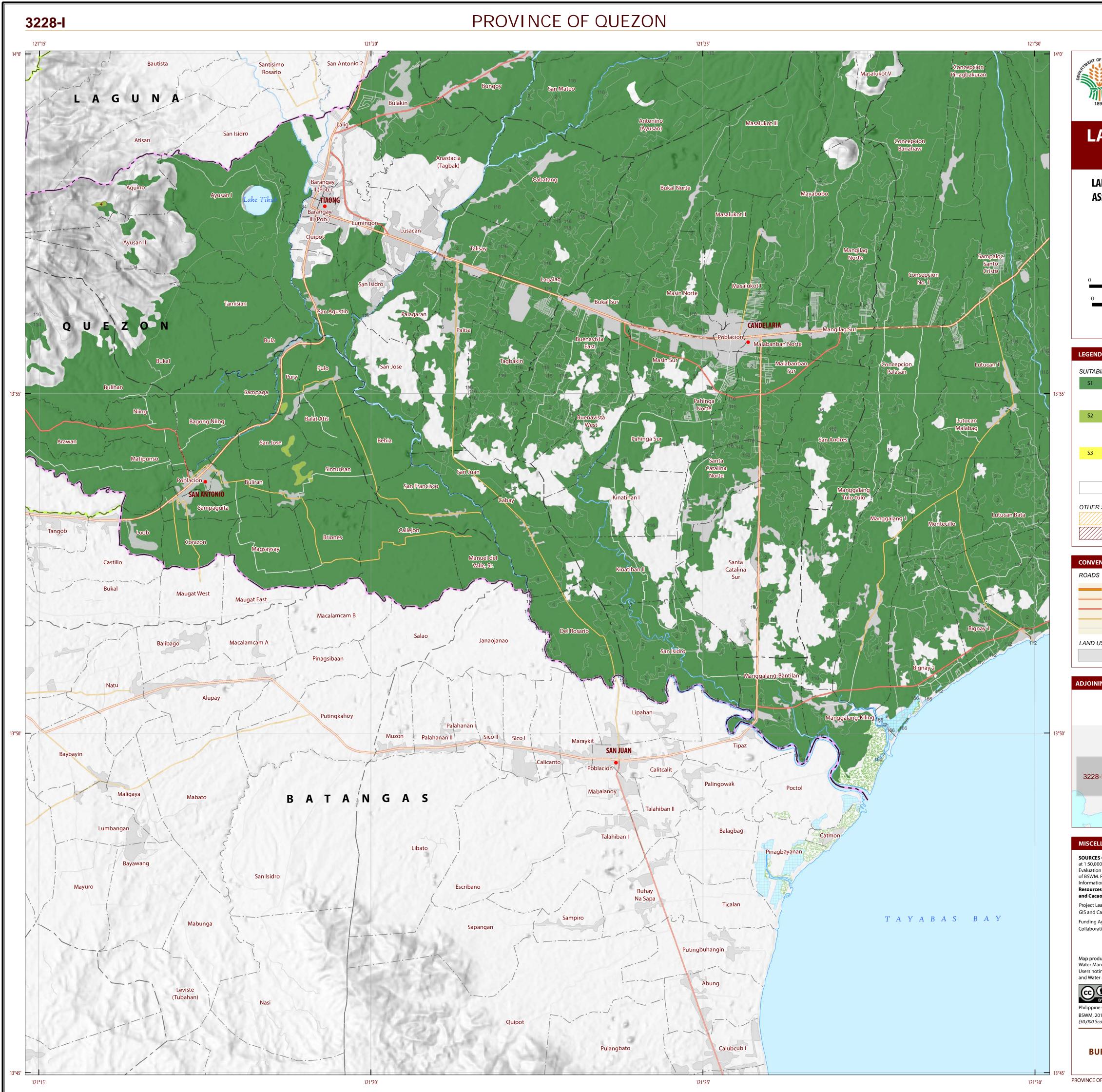
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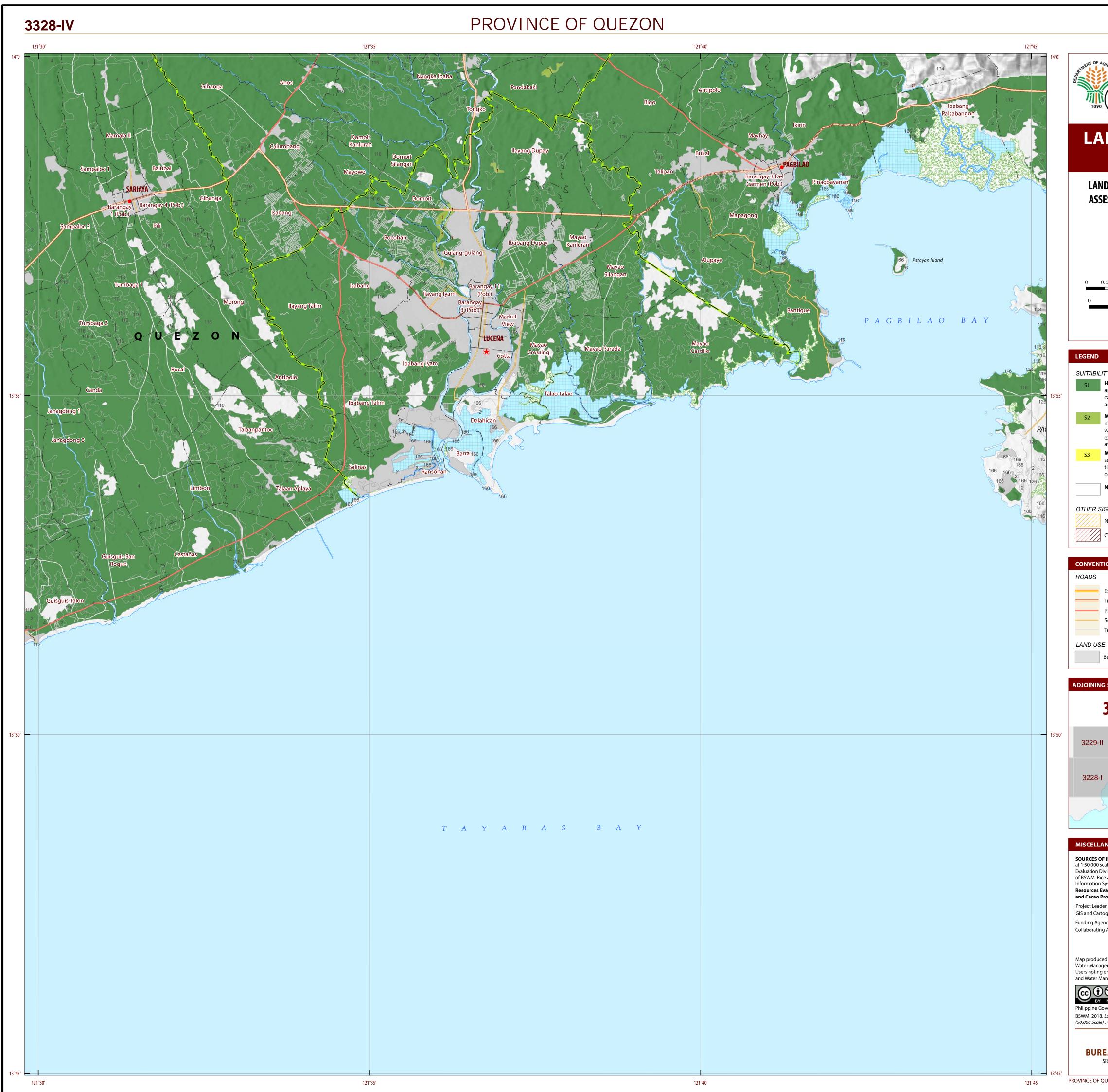
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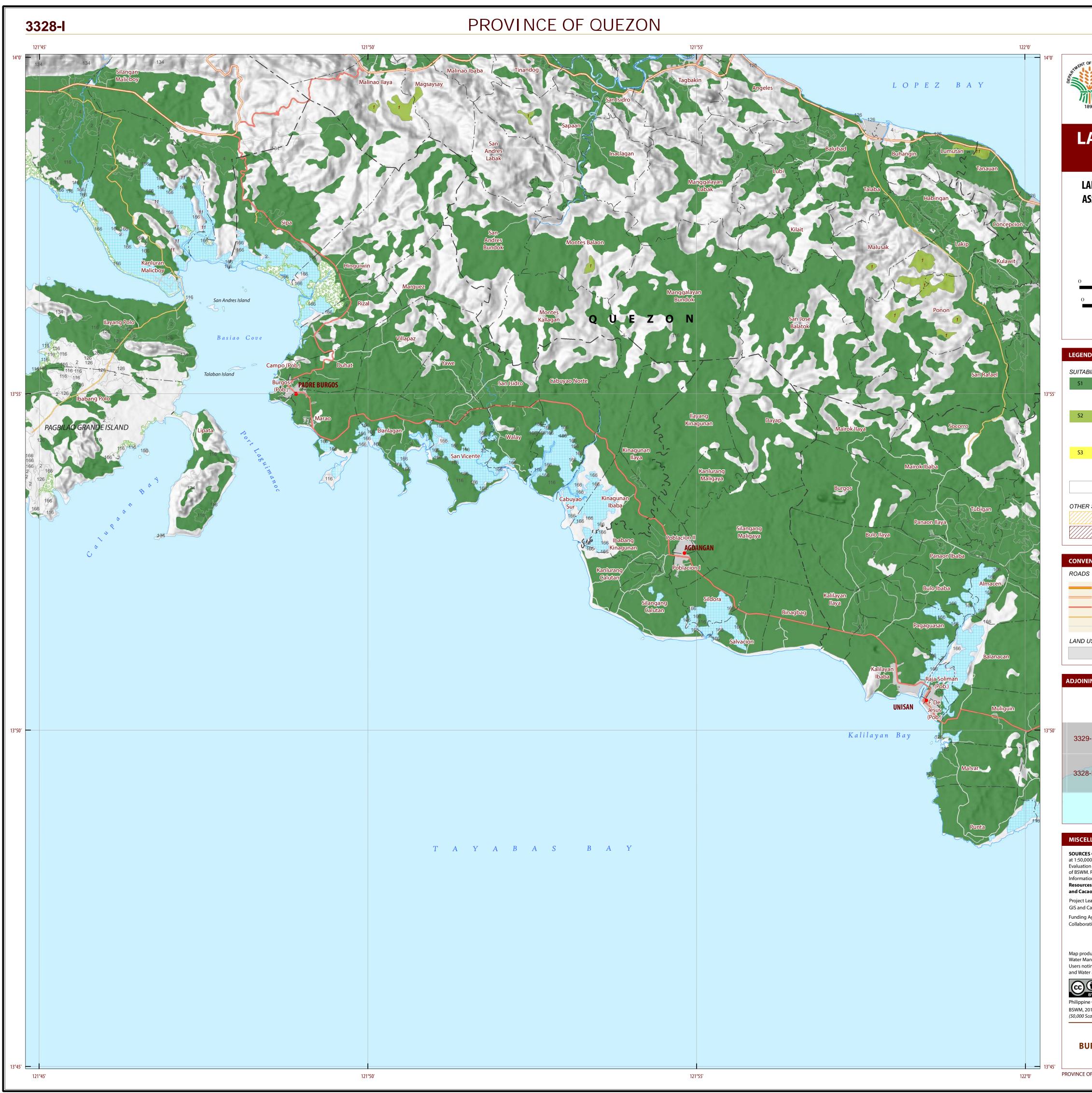
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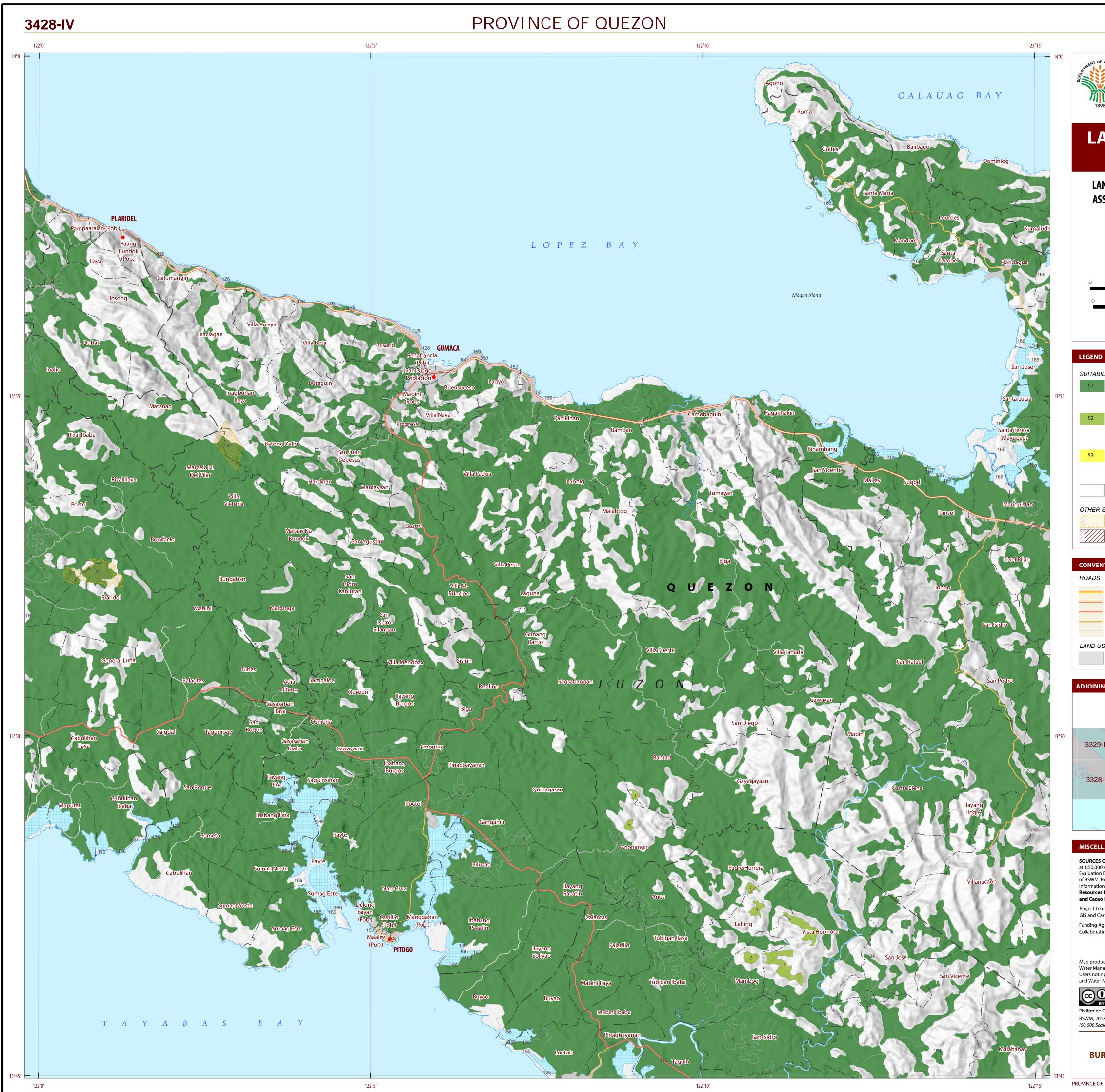
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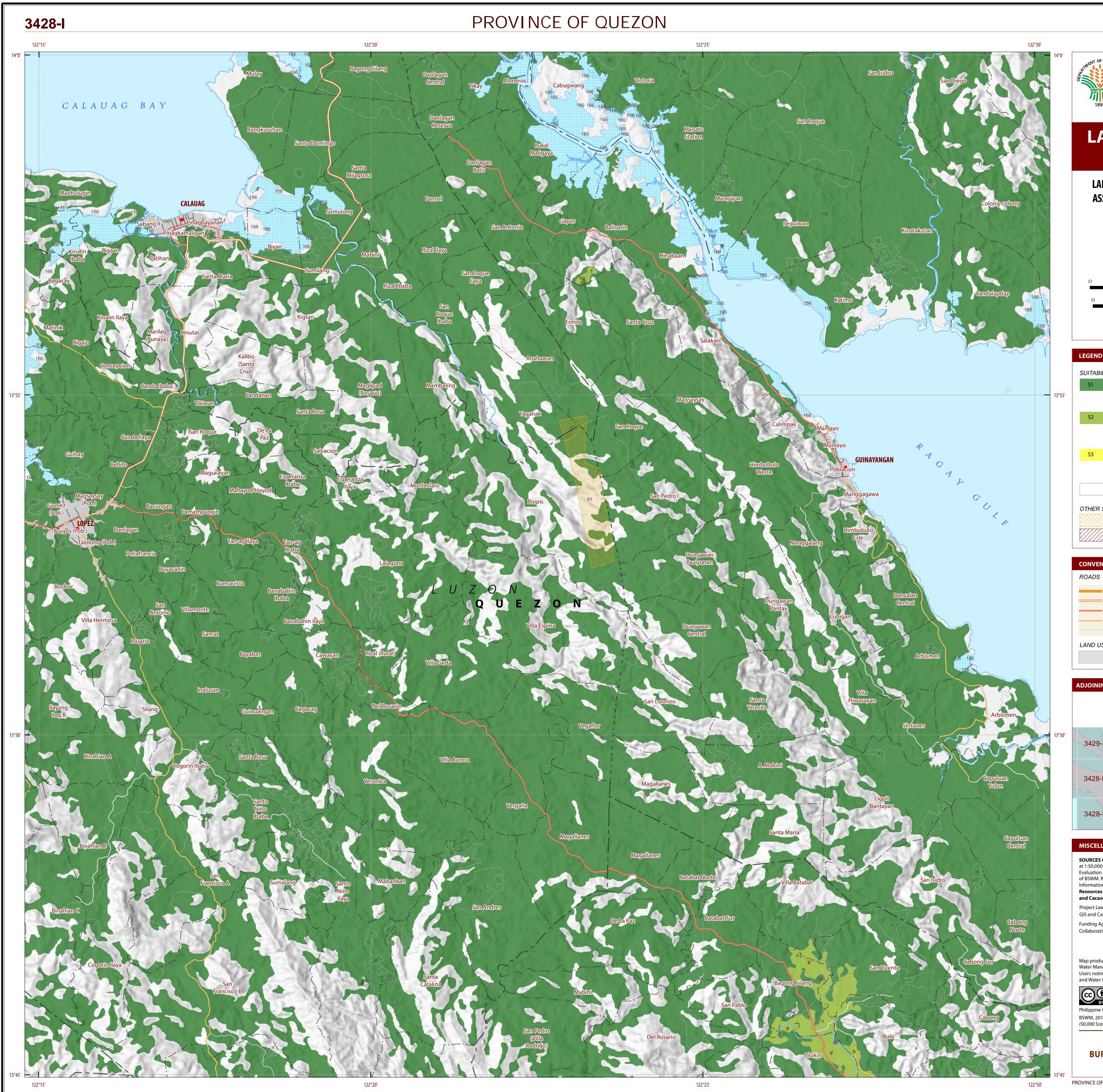
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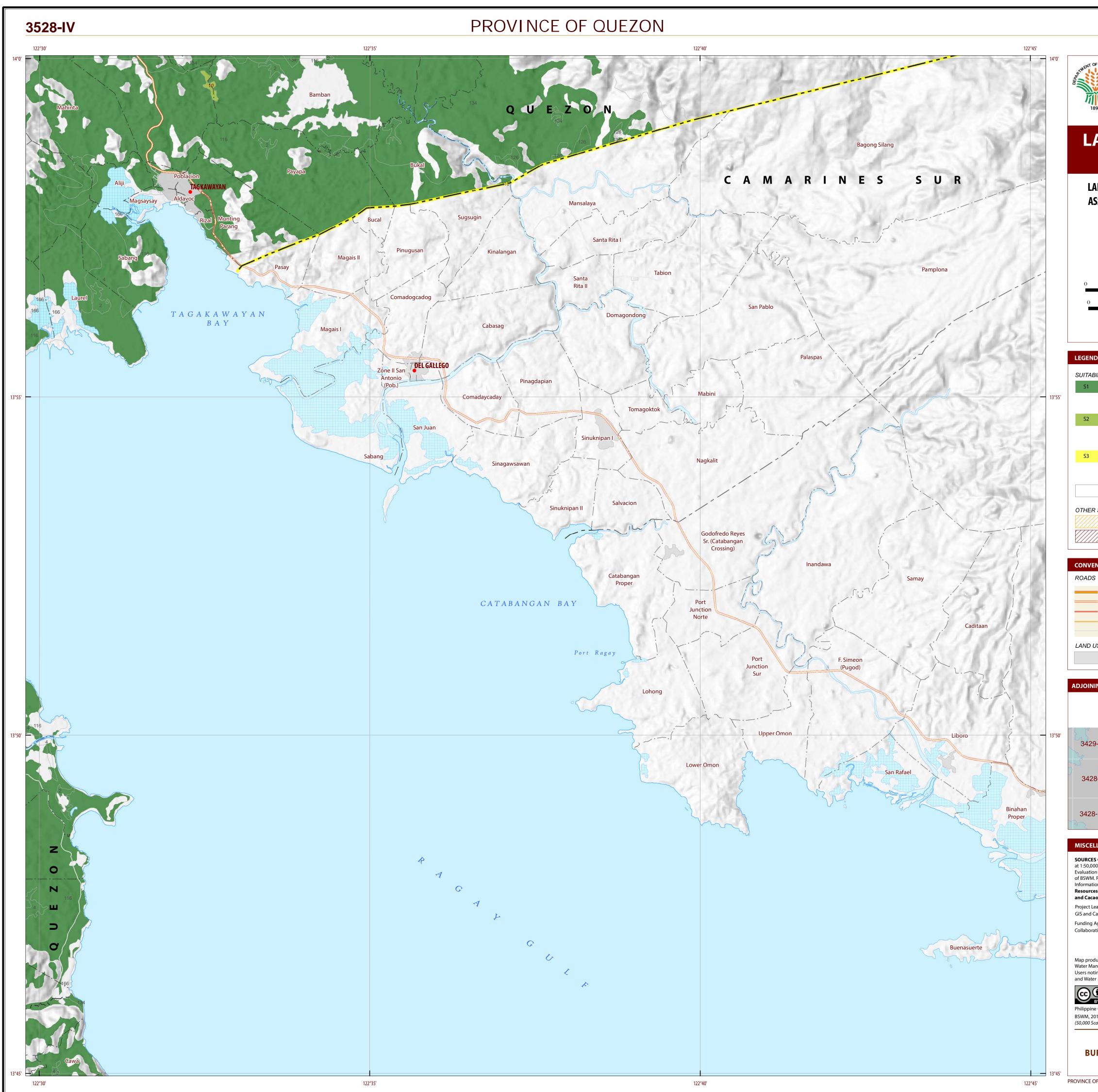
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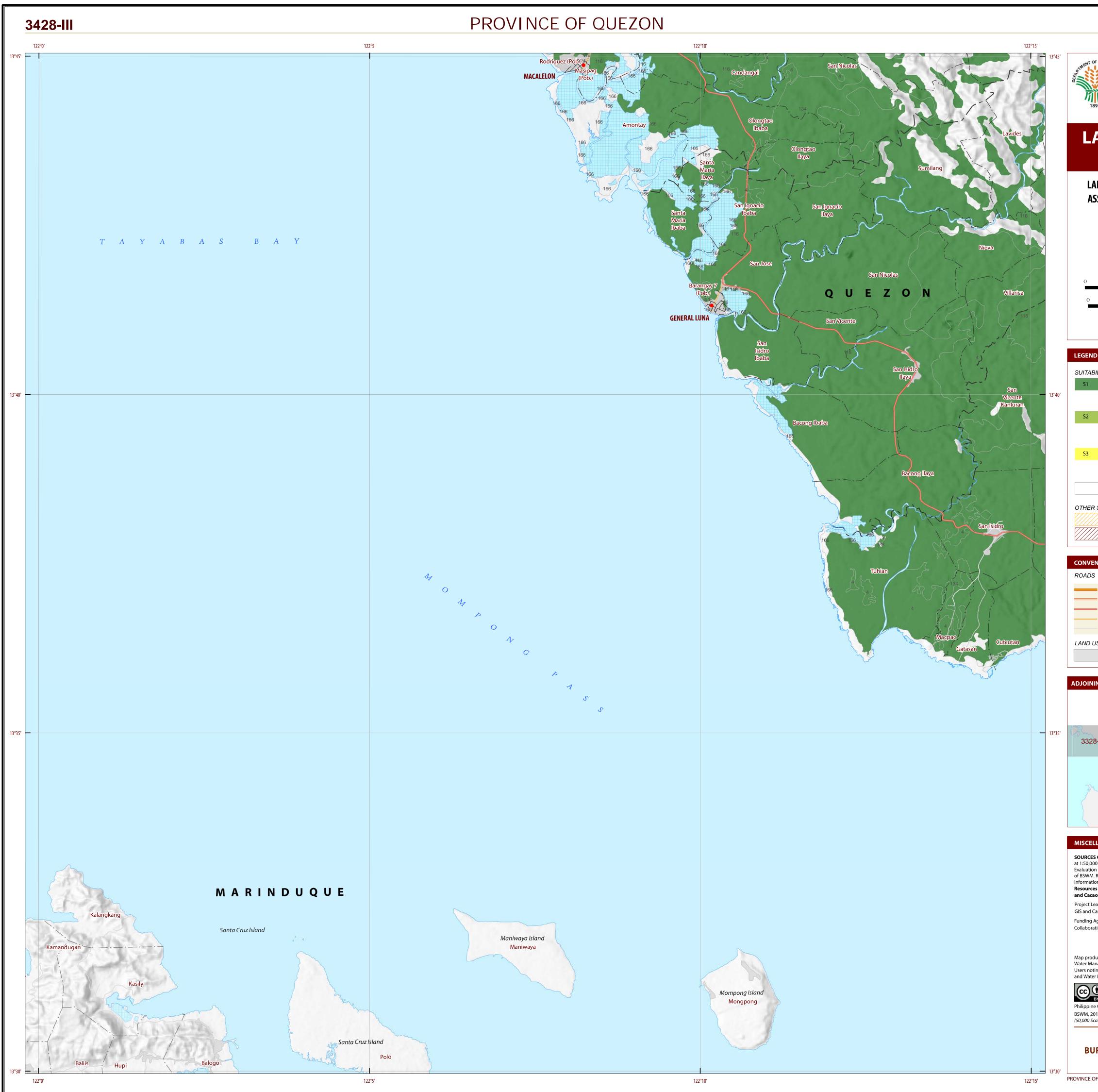
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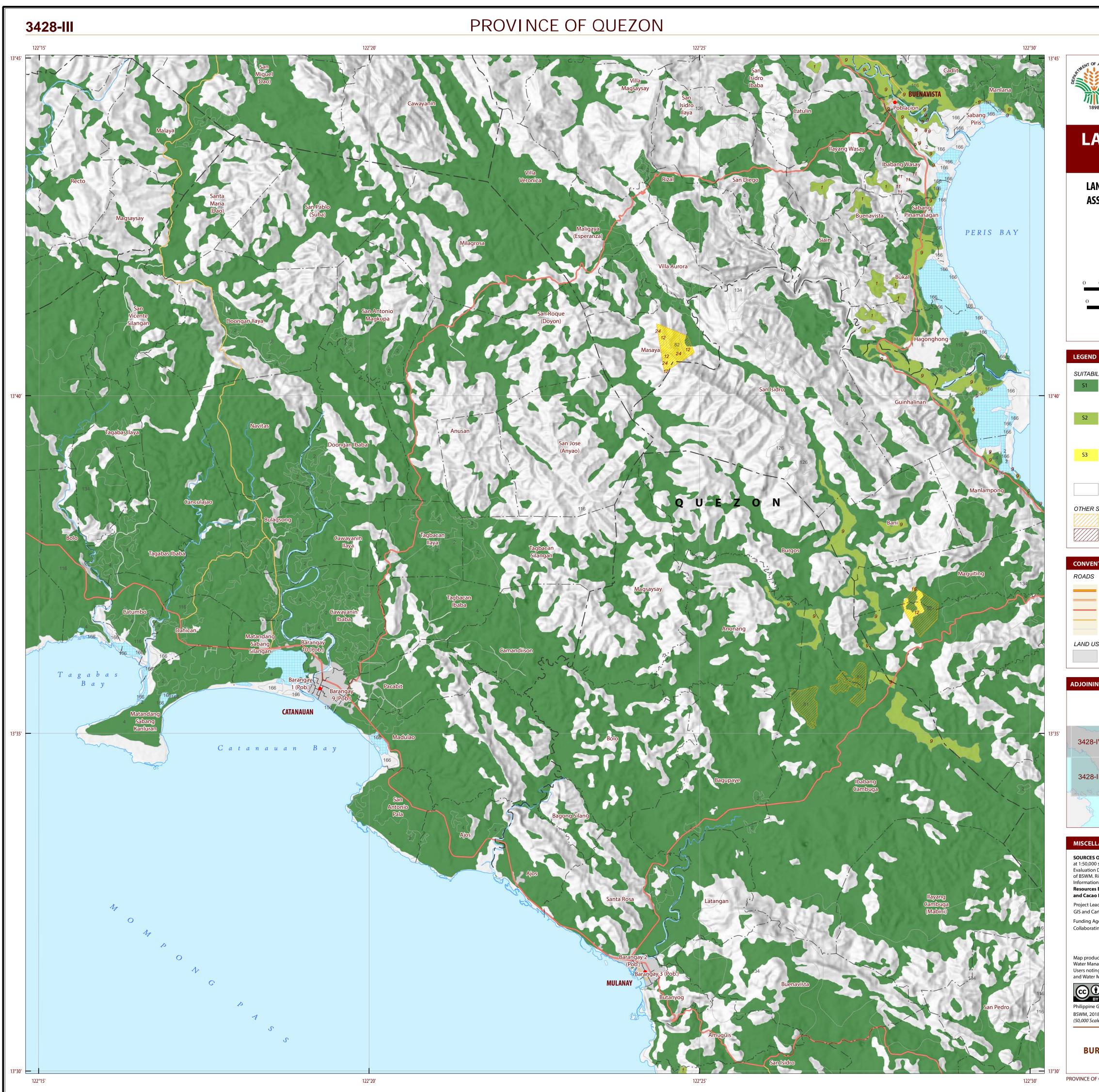
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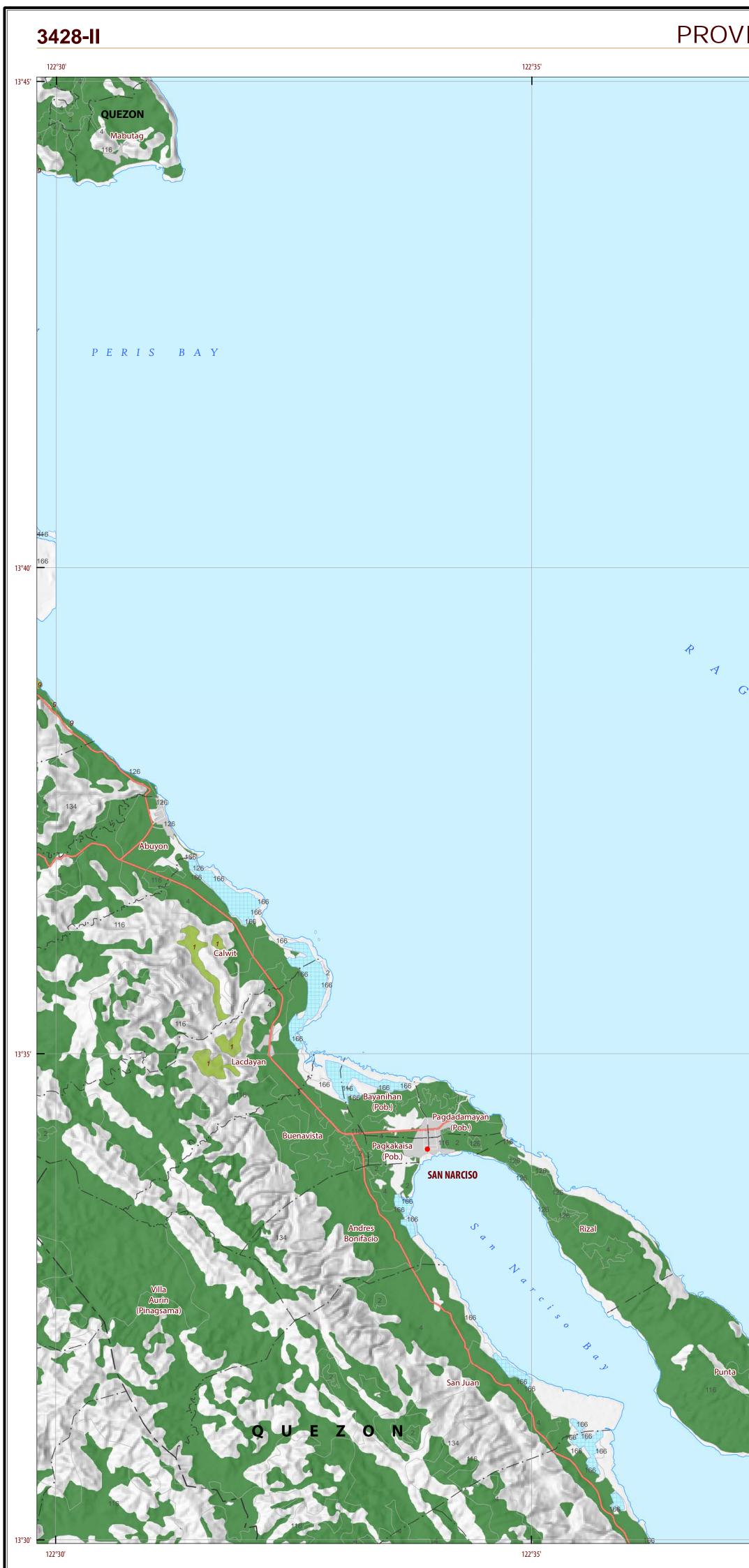
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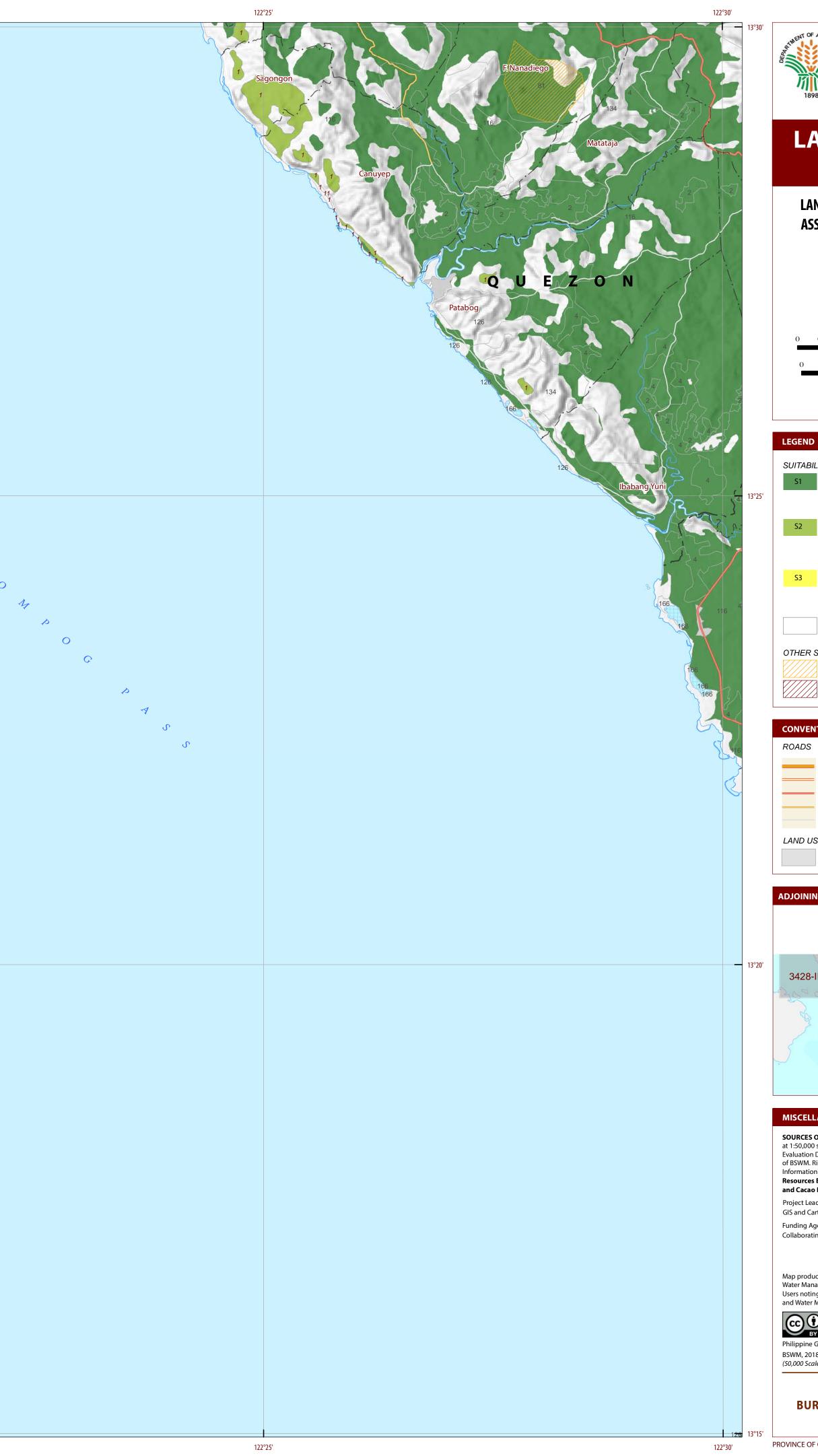
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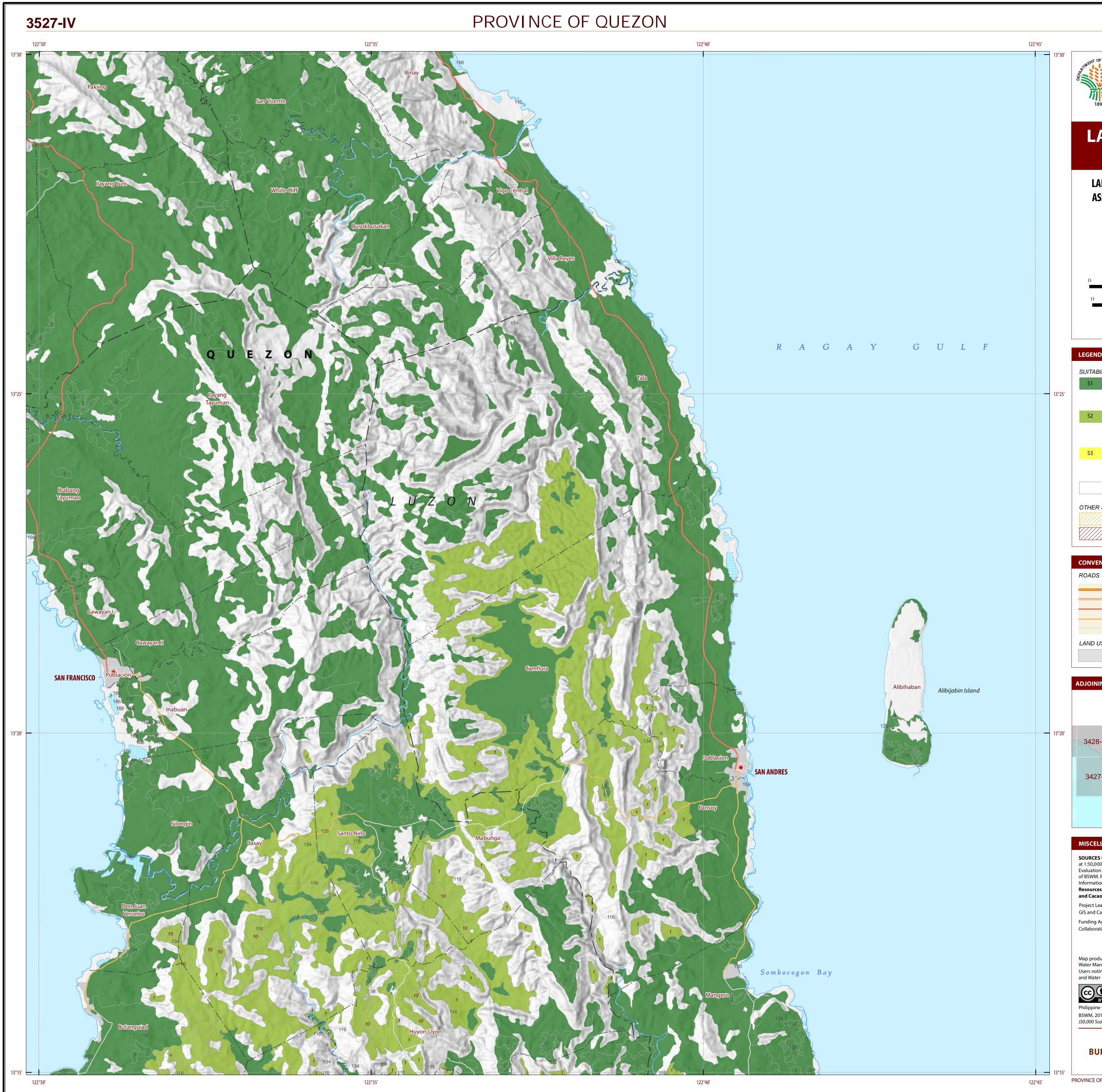
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	——————————————————————————————————————	LEGEND         SUITABILITY CLASSES         S1       Highly Suitable - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not signifi-
	15-4	S2       Moderately Suitable - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations 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.         S3       Marginally Suitable - Land having limitations which in aggregate are severe for sustained application of a given use; the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.         S3       Marginally Suitable - 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
		OTHER SIGNS NGP Areas Cacao Cacao NGP Areas Land limitation Land use
		CONVENTIONAL SIGNS         ROADS       BOUNDARY       HYDROLOGY         Expressway       Region       Sea / Shoreline         Trunk line       Province       Lakes / Rivers         Primary       District       PLACES         Secondary       Municipality       * Capital City / City         Tertiary       Barangay       • Capital Town / Town
		Built-up     Fishpond     Mangrove       ADJOINING SHEETS     INDEX MAP       3428-II     Image: Content of the second sec
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		MISCELLANEOUS INFORMATION         SOURCES OF INFORMATION : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Coffee and Cacao Project implemented by BSWM (2017).         Project Leader       : BERNARDO B. PASCUA         GIS and Cartography       : IRVIN K. SAMALCA         Funding Agency       : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)         Collaborating Agencies       : Philippine Council on Agriculture and Fisheries (PCAF)
		<ul> <li>Department of Agriculture Regional Field Office of CAR, Region II, IV-A, IV-B, VI, VII, VIII, IX, X, XI, XII and CARAGA(XIII)</li> <li>Local Government Unit (LGU) of covered provinces and municipalities</li> <li>Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and Water Management (BSWM).</li> <li>Users noting errors or omissions in this publication are requested to inform the Bureau of Soils and Water Management.</li> <li>This publication is licensed under a Creative Commons Attribution 4.0 International License. Unless otherwise noted, copyright and any other intellectual property rights, in this publication is owned by the</li> <li>Philippine Government. This publication should be attributed as :</li> <li>BSWM, 2018. Land Suitability Map Series for Cacao of the PROVINCE OF QUEZON (50,000 Scale) . CC BY NC SA 4.0.</li> </ul>
	<b>1</b> 3°3	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE BUREAU OF SOILS AND WATER MANAGEMENT SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@yahoo.com
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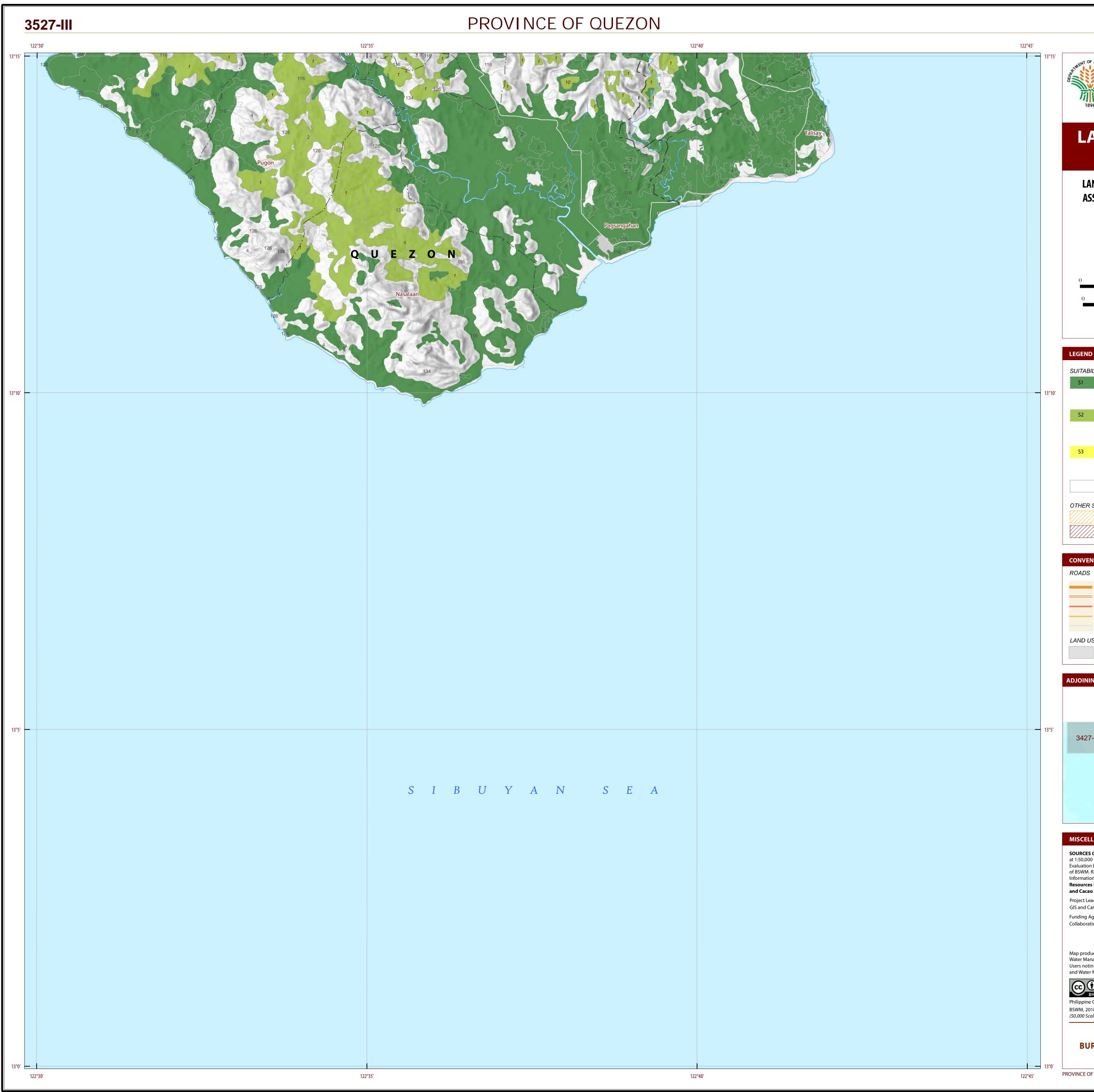
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