

PROVINCE OF NUEVA VIZCAYA

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

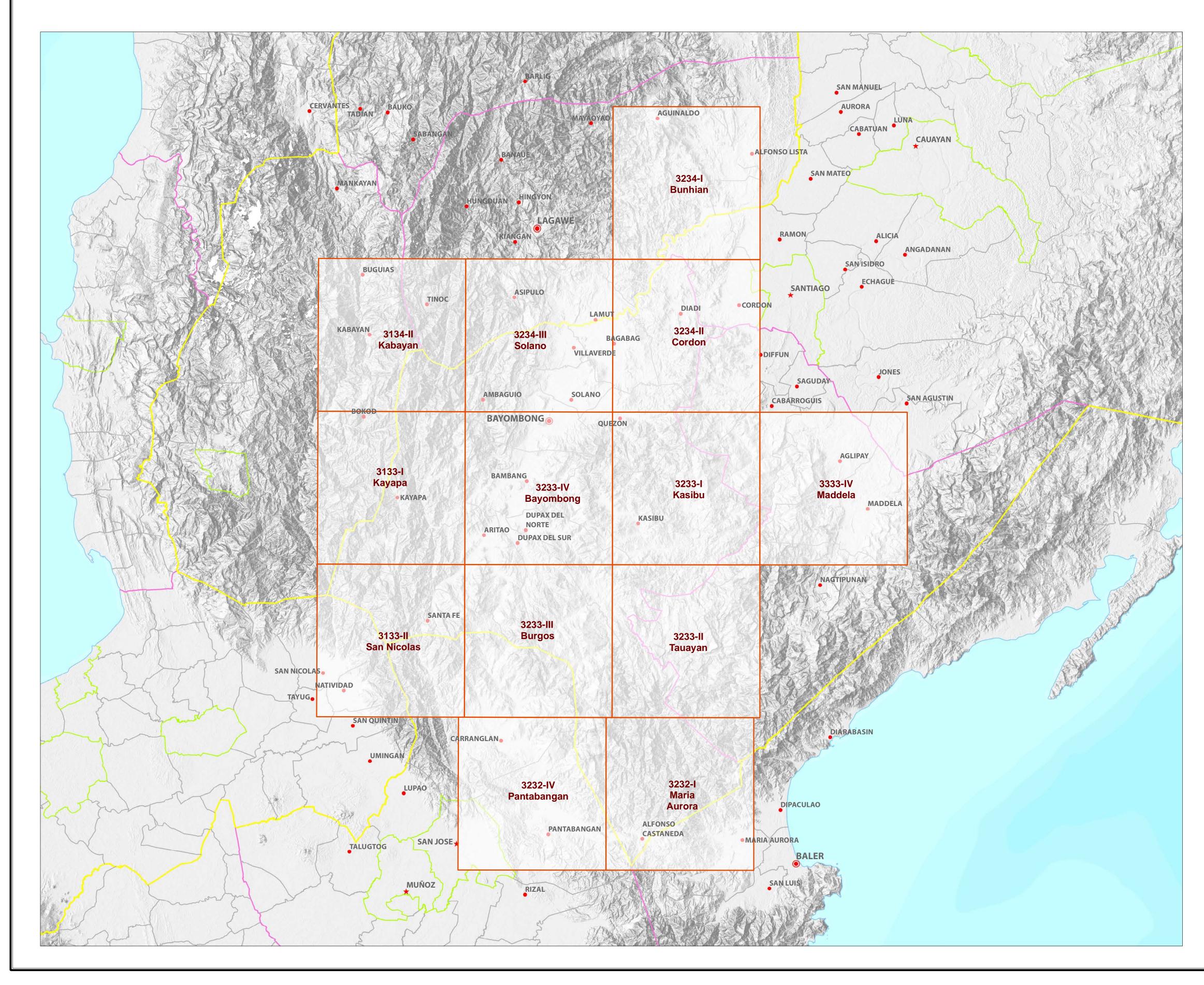
LAND SUITABILITY MAP

CACAO



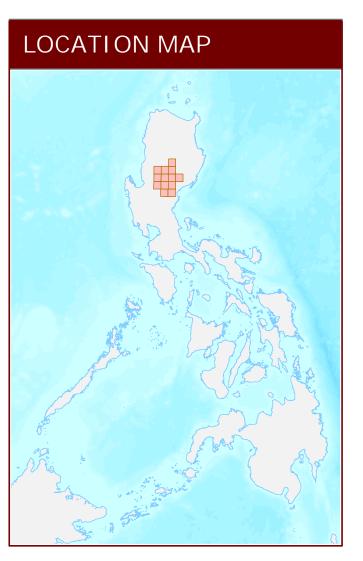
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE **BUREAU OF SOILS AND WATER MANAGEMENT** SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF NUEVA VIZCAYA



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LAND SUITABILITY MAP FOR CACAO

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **NUEVA VIZCAYA, REGION II**

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (H	la)			CONF	LICT RESO	OLUTION	(Ha)		TOTAL
MUNICIPALITY	EXISTI	NG CACA	0 (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrub unman	•	Grass unman		Co	rn	Rice pa non-irr	-	Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	АКЕА (Па)
ALFONSO CASTANEDA	-	-	-	-	-	-	27	-	577	4	205	-	169	-	-	-	980
AMBAGUIO	-	-	-	-	-	-	-	-	9	26	-	11	-	-	-	-	47
ARITAO	41	-	-	41	52	-	118	-	1,445	51	958	109	766	3	-	-	3,502
BAGABAG	-	-	-	-	158	-	3	-	3,120	16	2,870	-	1,620	-	-	-	7,788
BAMBANG	28	-	159	187	88	10	-	-	2,426	53	1,451	439	1,460	15	-	-	5,941
BAYOMBONG	-	-	-	-	42	45	-	-	1,084	743	1,081	271	995	3	-	-	4,266
DIADI	-	-	17	17	527	-	477	-	2,739	34	2,713	5	678	-	-	-	7,174
DUPAX DEL NORTE	-	-	-	-	121	-	-	-	879	2,355	473	684	332	-	-	-	4,845
DUPAX DEL SUR	-	7	142	149	-	-	-	-	1,076	1,787	202	1	166	-	-	-	3,232
KASIBU	-	-	-	-	-	96	8	112	84	341	73	1,305	11	-	-	-	2,030
КАҮАРА	-	-	-	-	8	8	-	-	123	19	84	7	3	2	-	-	253
QUEZON	-	-	-	-	-	-	-	-	2,970	27	855	-	364	-	-	-	4,216
SANTA FE	-	-	-	-	-	-	-	-	35	3	-	122	4	5	-	-	168
SOLANO	-	-	-	-	13	-	-	-	608	241	1,044	33	1,636	8	-	-	3,583
VILLAVERDE	-	-	-	-	16	13	-	15	324	545	966	214	1,234	18	-	-	3,345
TOTAL	69	7	317	393	1,026	172	633	127	17,500	6,246	12,975	3,201	9,437	53	-	-	51,370

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

AGRONOMIC REQUIREMENT OF CACAO PRODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPT (cm)	H SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTI (pH)	ION	INHERENT FERTILITY	FLOODING CLASS	EROS		ROCK OUTCROPS	ELEVATION (masl)	RAIN	NUAL NFALL 1m)	CLIMATIC TYPE
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.	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. 7.3 - 7.		medium	moderate	mode	erate	common	1000-1500	1000)-2000	I, II
	S3	>30	<50	S, LS, CSL, SL	VPD,ED	<5.0 - >	• 7.9	low	severe	sev	ere	many	>1500		000 500	
SLOPE (%)		'	SOIL DRAI	NAGE	'	SOIL REAC	CTION (pl	H)		SOIL TE	XTURE		•		- · · ·	
	el to gently sloping	5		- excessively drained			- extreme	-		Coarse			I	Fine		
	tly sloping to und			- well drained				rongly acid		S	- sand		S	SC	- sandy c	ay
8 - 18 - undi	ulating to rolling	-	MWD	- moderately well draine	d	5.1 - 5.5	- strongly	y acid		LS	- loam	y sand	S	SiC	- silty cla	y
18 - 30 - rolli	ing to moderately	steep	SPD	- somewhat poorly drain	ed	5.6 - 6.0	- medium	n acid		CSL	- coars	e sandy loam	C	2	- clay	
30 - 50 - stee	р		PD ·	- poorly drained		6.1 - 6.5	- slightly	acid		SL	- sandy	v loam	H	HC	- heavy c	lay
> 50 - very	y steep		VPD	 very poorly drained 		6.6 - 7.2	- neutral			Medium	1					
						7.3 - 7.8	- mildly a	alkaline		FSL	- fine s	andy loam				
SOIL DEPTH (cr	m)		SURFACE I	MPEDIMENT		7.9 - 8.4	- modera	tely alkaline		L	- loam					
0 - 30 - very	y shallow		ROCK OUT (ROPS		> 8.5	- strongly	y alkaline		SiL	- silt lo	am				
30 - 50 - shall	low		< 10%	- none - few						CL	- clay l	oam				
50 - 100 - mod	lerately deep		10 - 30%	- common						SiCL	- silty	clay loam				
>100 - deep	p to very deep		> 30%	- many						SCL	- sandy	⁷ clay loam				
LAND LIM	IITATION	S DESCRIP	TION AN soil dra	ND COMBINAT INAGE	IONS		SOIL	DEPTH			S	DIL EROSION				
El2 - 1000m - 2	1500m		D2 - So	mewhat poorly drained t	o poorly drained	ł	Sh2	- Moderately d	leep (50 - 100c	m)	E	2 - Moderate	erosion			
El3 ->1500m	L		D3 - Ve	ry poorly drained or exc	essively drained		Sh3	- Very shallow	to shallow (<	50cm)	E	- Severe ero	osion			
SLOPE/TOPOGE	RAPHY		SOIL TEX	ΓURE			ROCK	KOUTCROPS			F	LOODING				
T2 - Undulatin	ng to moderately	steep	Tc - Co	arse texture			Rc2	- Common			FZ	- Moderate	seasonal flooding	5		
T3 - Steep to v	very steep						Rc3	- Many			F	- Severe sea	asonal flooding			
CODE LAND I	LIMITATION	CODE LAND L	IMITATION	CODE LAND LIMITA	TION CODE	LAND LIM	MITATIO	N	CODE	LAND USI	E	Ī				
										••		+				

1 E2-Sh2-Rc2 **11** T2 21 T2-El3-E3 31 T3-El2-E3-Sh2-Rc3 2 Rice paddy, non-irrigated 2 El2 12 T2-E3 22 T2-El3-E3-Sh2-Rc3 32 T3-El2-E3-Sh3-Rc2 4 Corn 47 Vegetable 3 13 T2-E3-Rc2 23 T3 33 T3-El2-E3-Sh3-Rc3 El2-E2-Sh2-Rc3 El2-E3-Rc3 14 T2-E3-Sh2-Rc2 24 T3-E3 34 T3-El3-E3 81 Coffee 4 5 El2-E3-Sh2-Rc3 **15** T2-E3-Sh2-Rc3 25 T3-E3-Rc2 35 T3-El3-E3-Sh3-Rc3 82 Cacao 26 T3-E3-Rc3 El2-Sh2-Rc2 16 T2-El2 6 116 Coconut 27 T3-E3-Sh3-Rc2 7 El2-Sh2-Rc3 17 T2-El2-E3 126 Grassland 28 T3-E3-Sh3-Rc3 8 **18** T2-El2-E3-Rc3 134 Shrubland, unmanaged El3 9 El3-E3-Sh2-Rc3 **19** T2-El2-E3-Sh2-Rc2 **29** T3-El2 20 T2-El2-E3-Sh2-Rc3 30 T3-El2-E3 10 Sh2-Rc2

SUITABII	LITY	CLA	ASS	ES:



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.

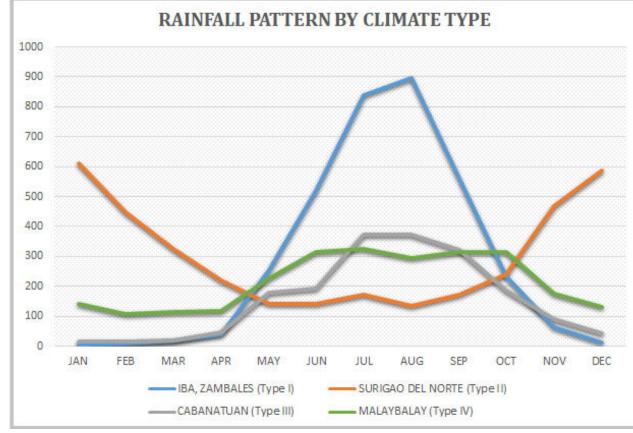
Moderately Suitable (S2)

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.

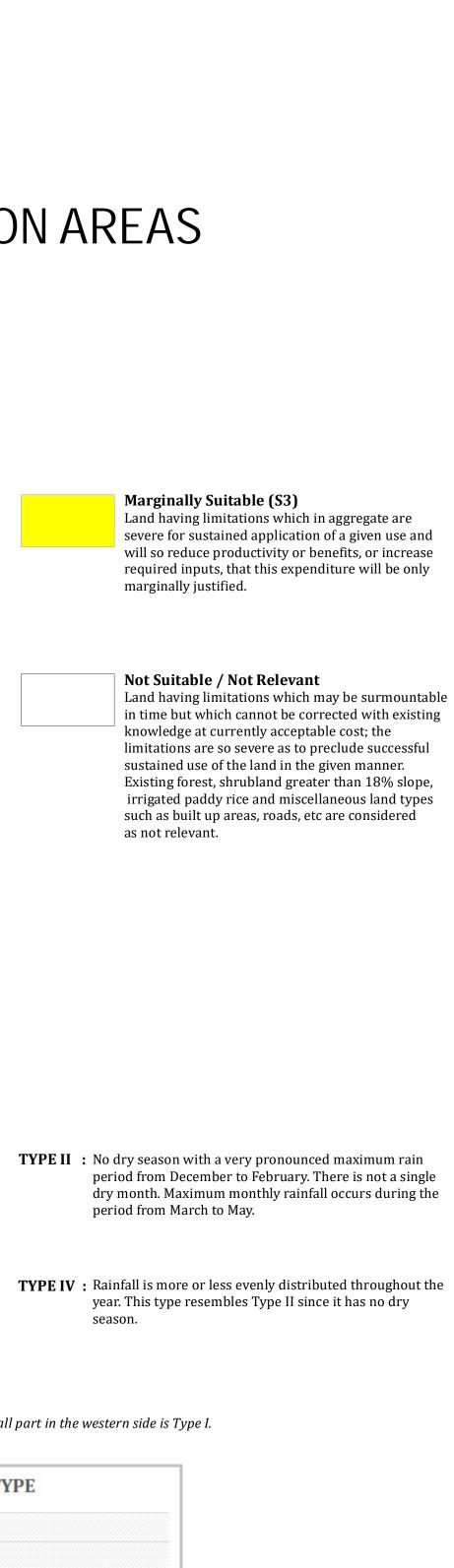
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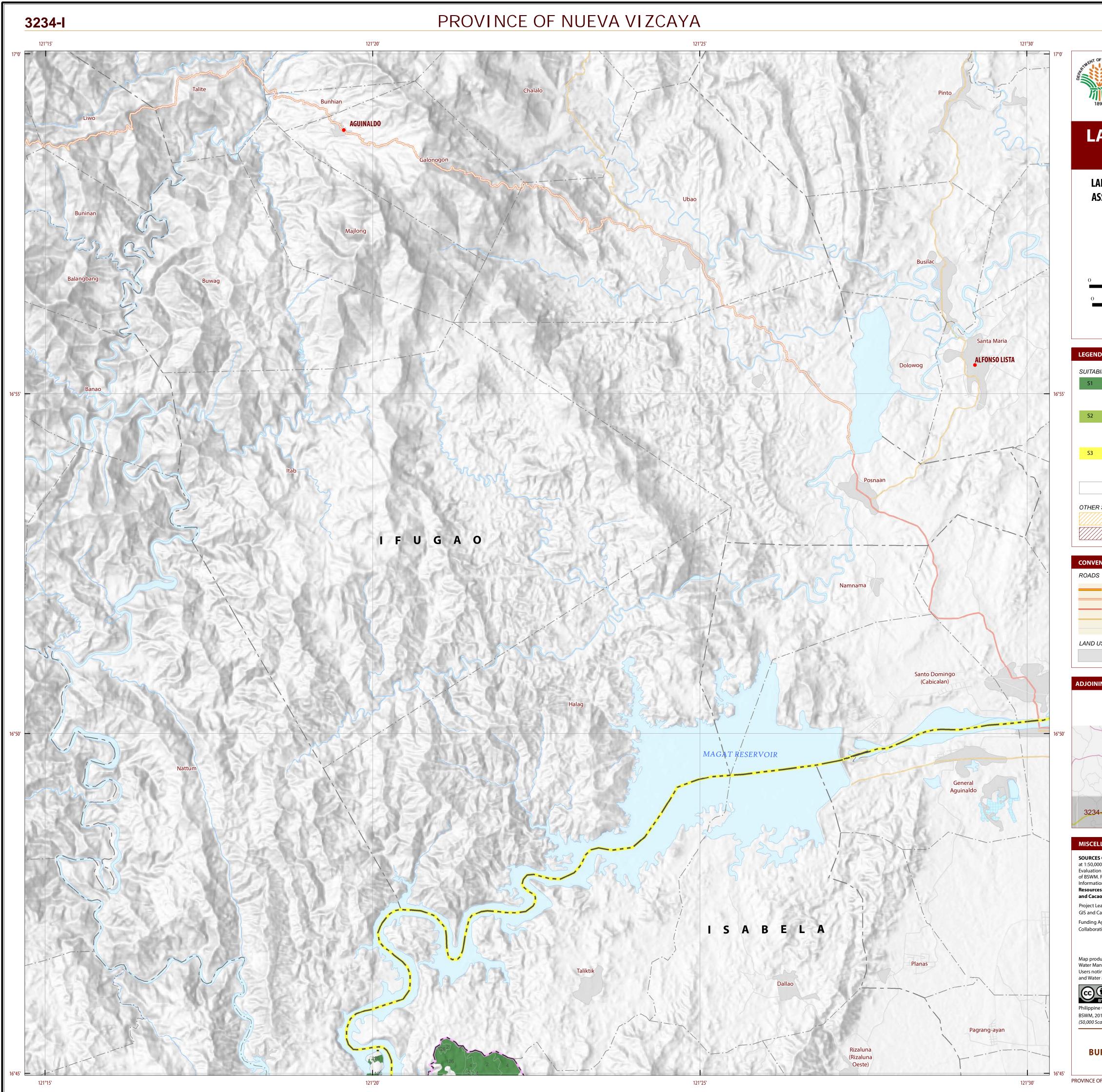
- **TYPE I** : Two pronouced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September
- **TYPE III**: No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to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

Almost whole part of Nueva Vizcaya classified as climatic Type III and small part in the western side is Type I.

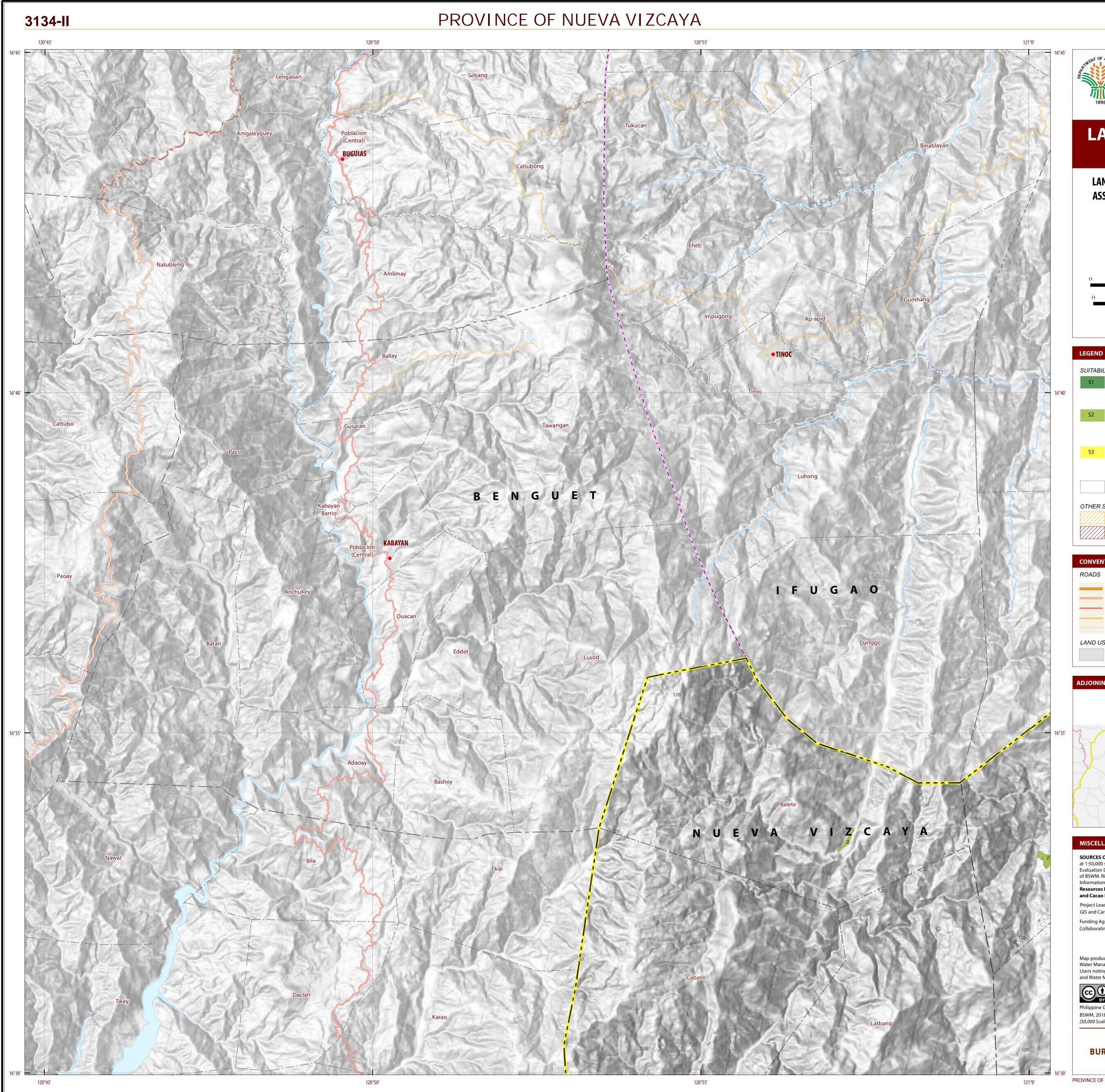


Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>

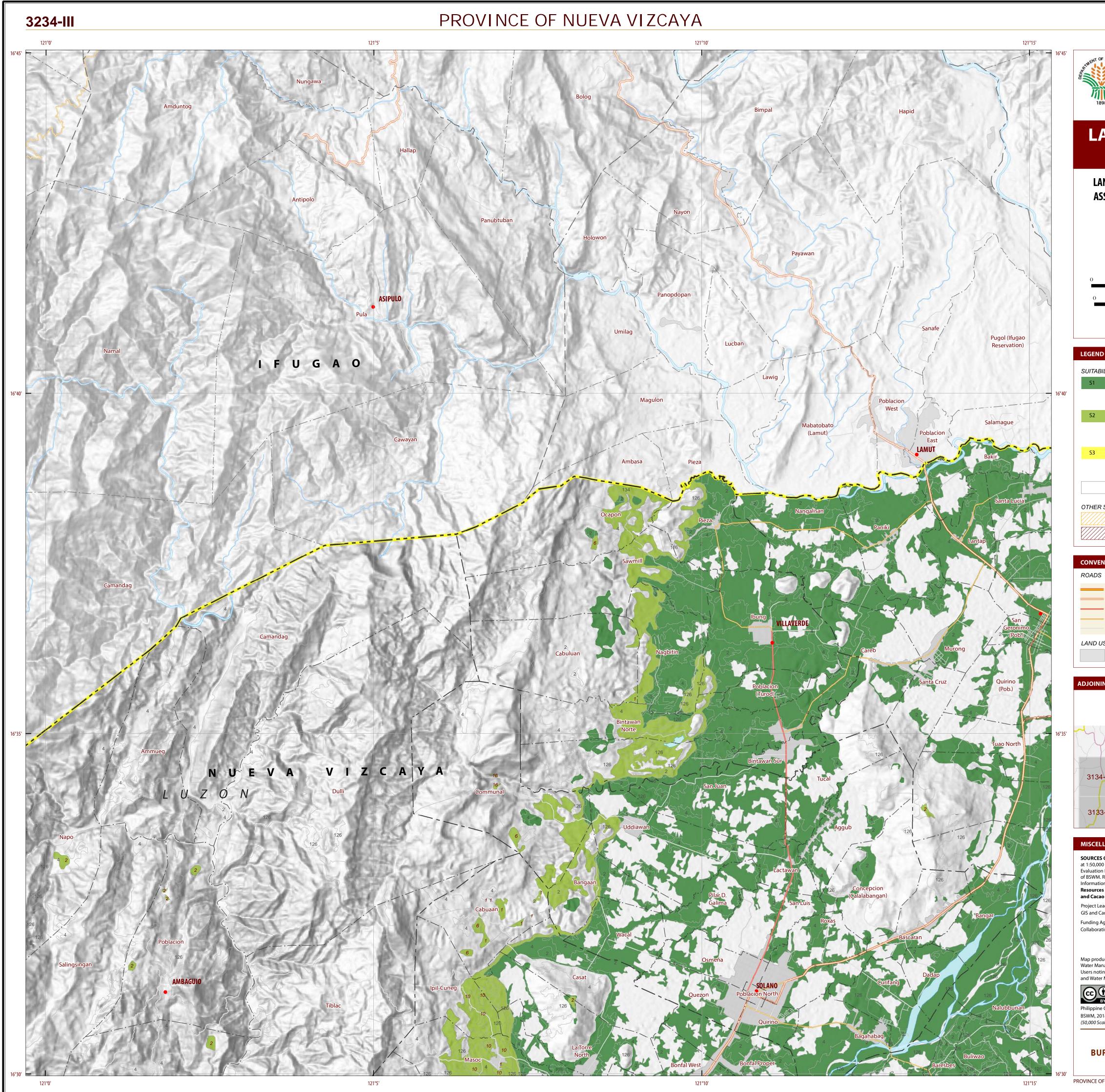




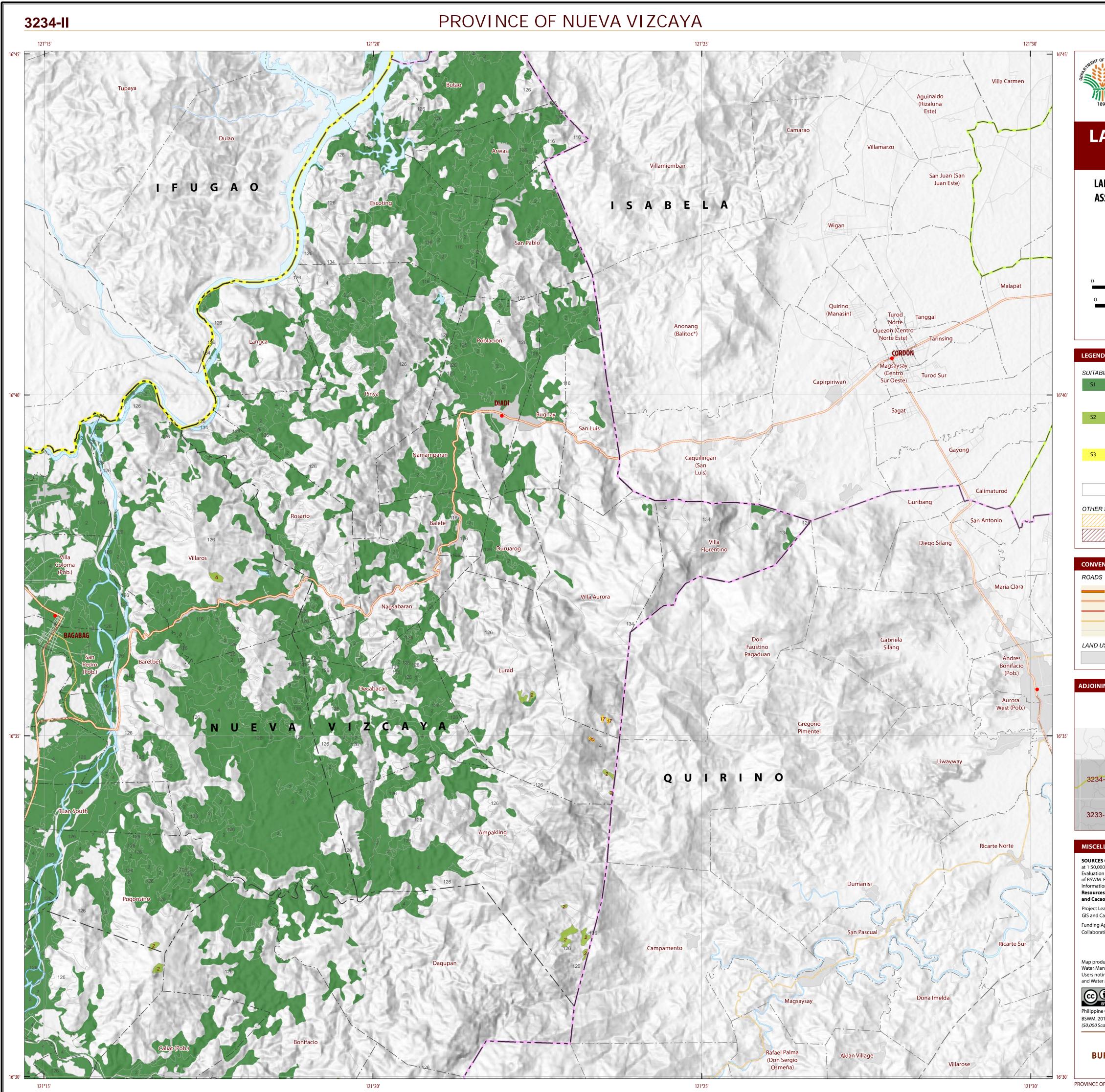
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JSE Built-up	Fishpond	Mangrove
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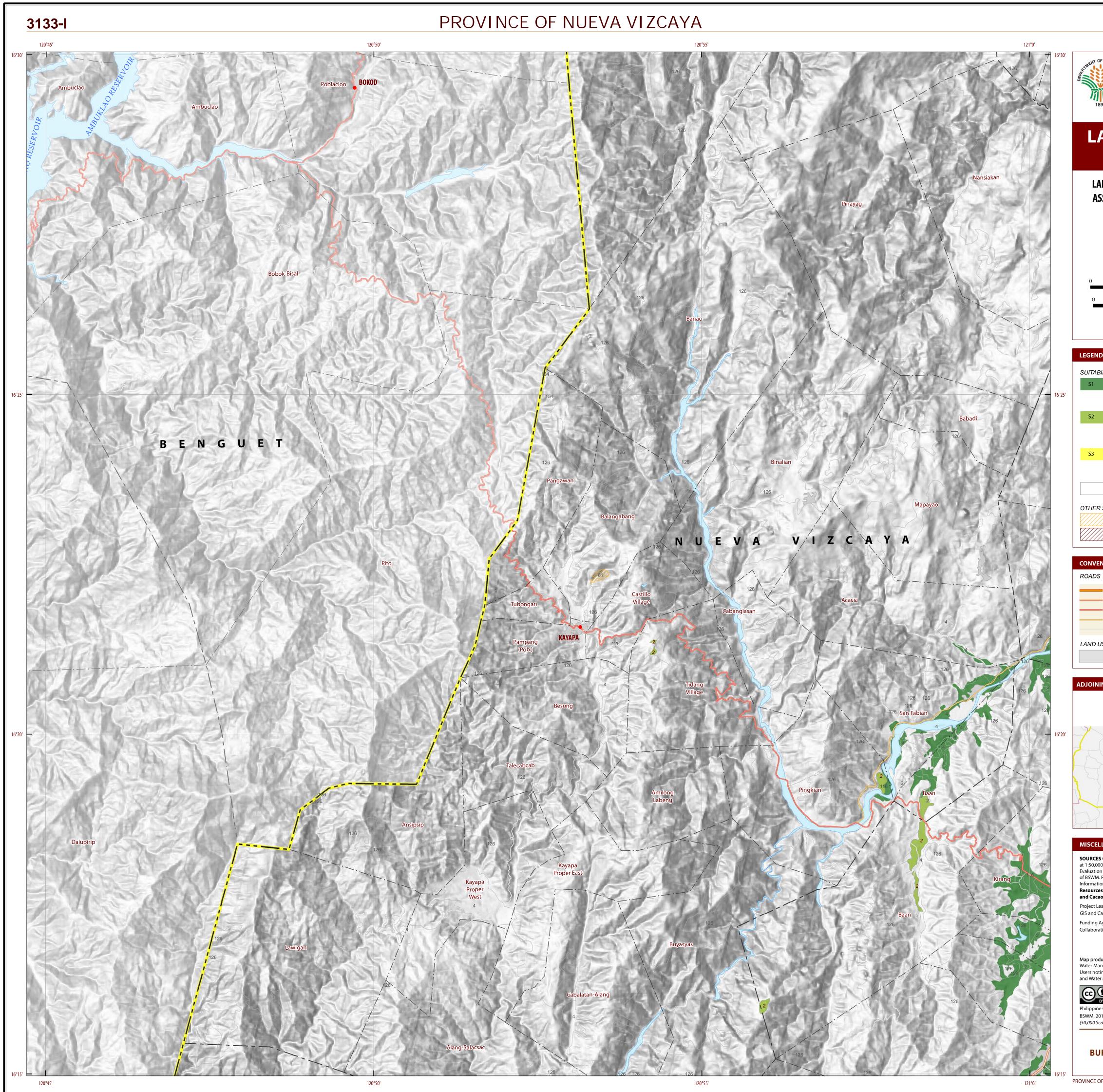
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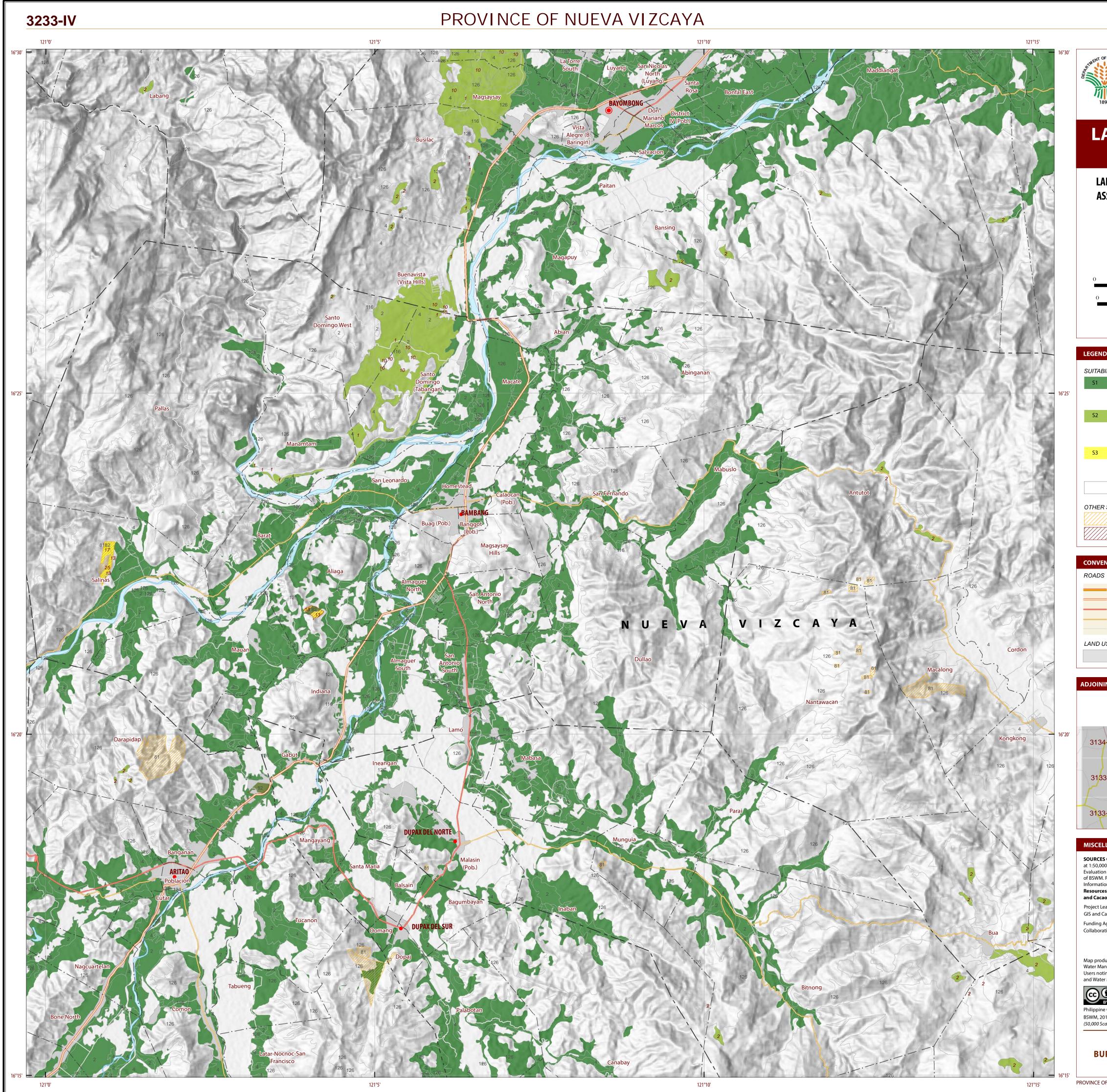
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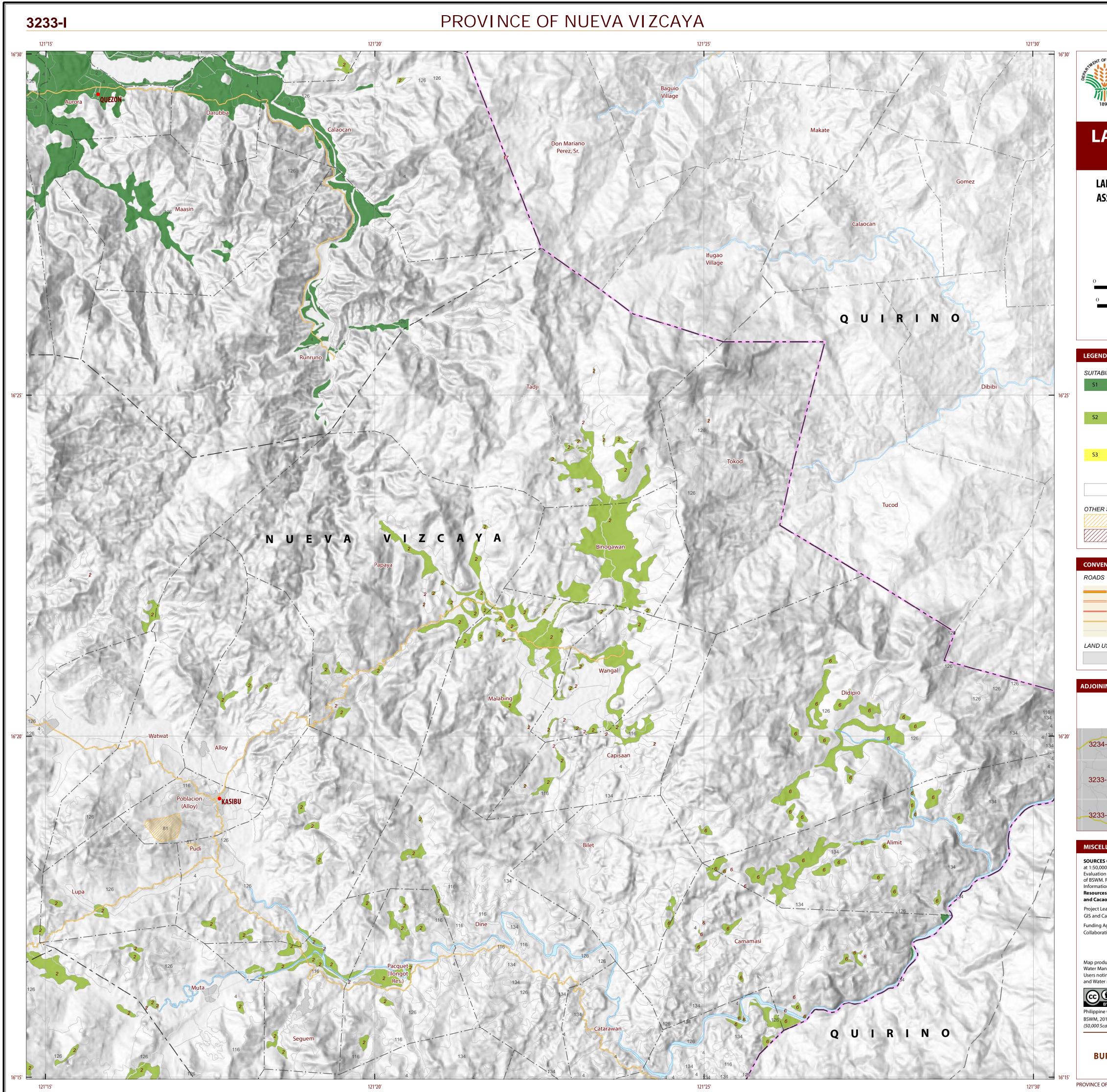


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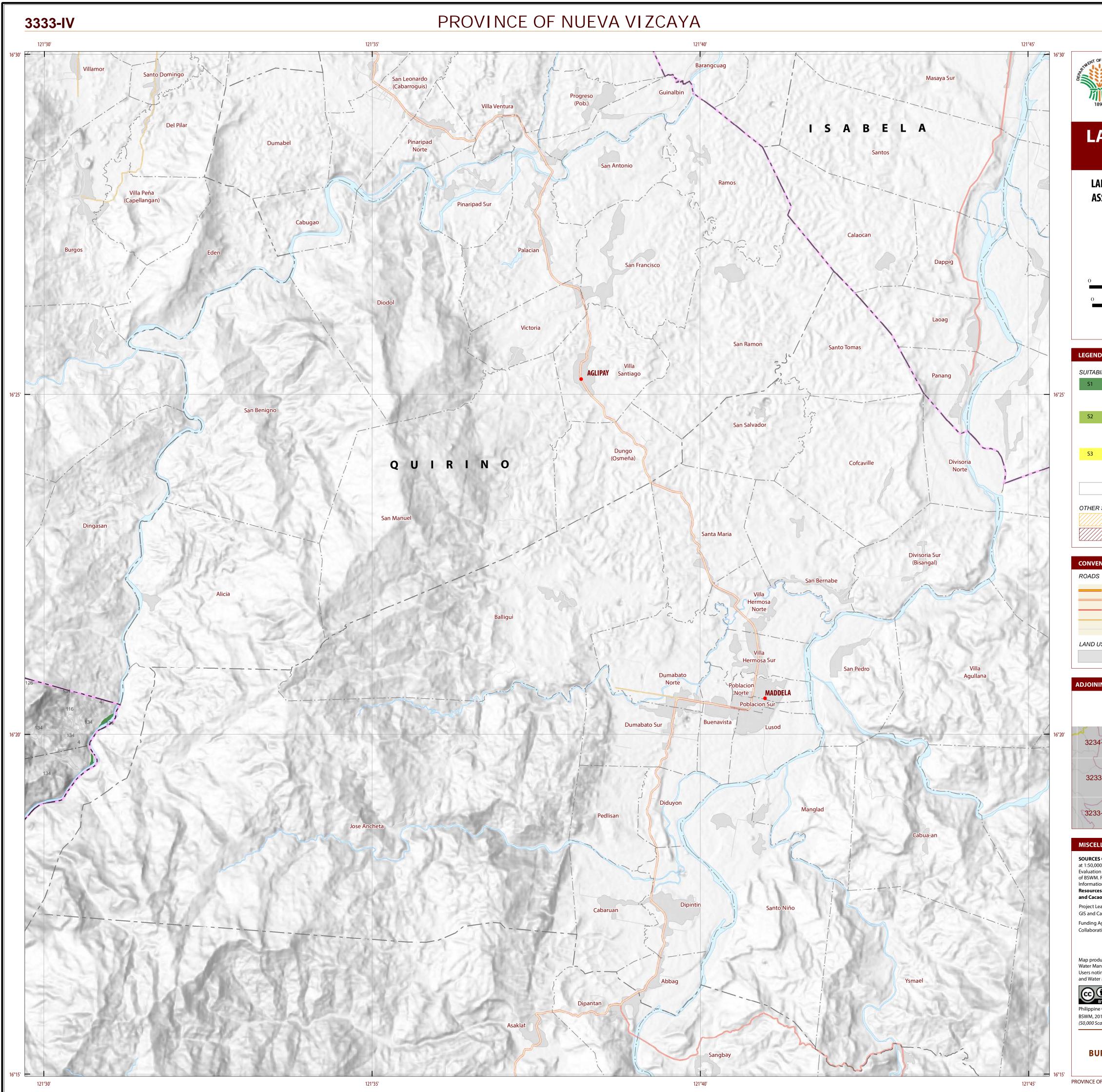


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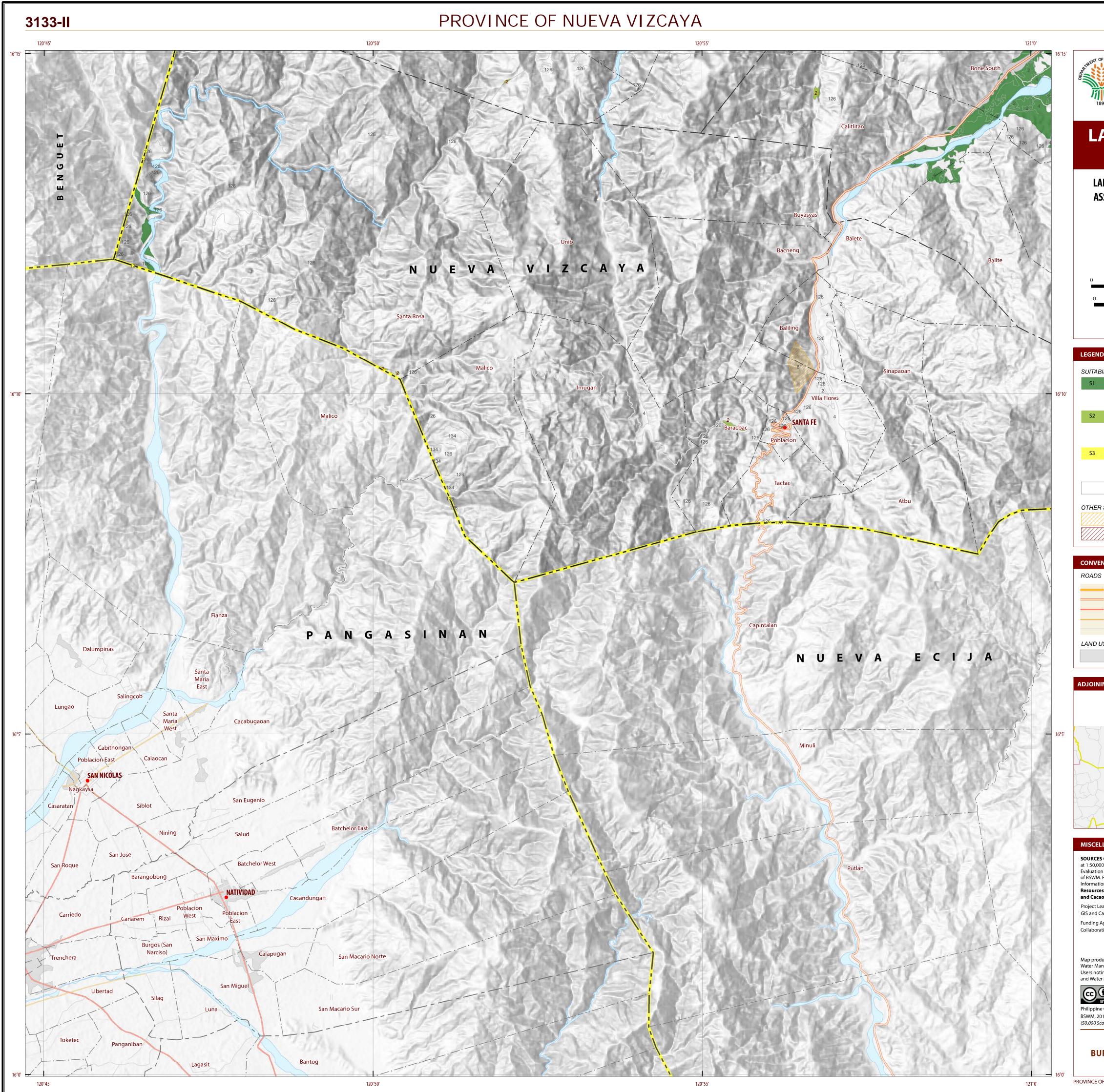
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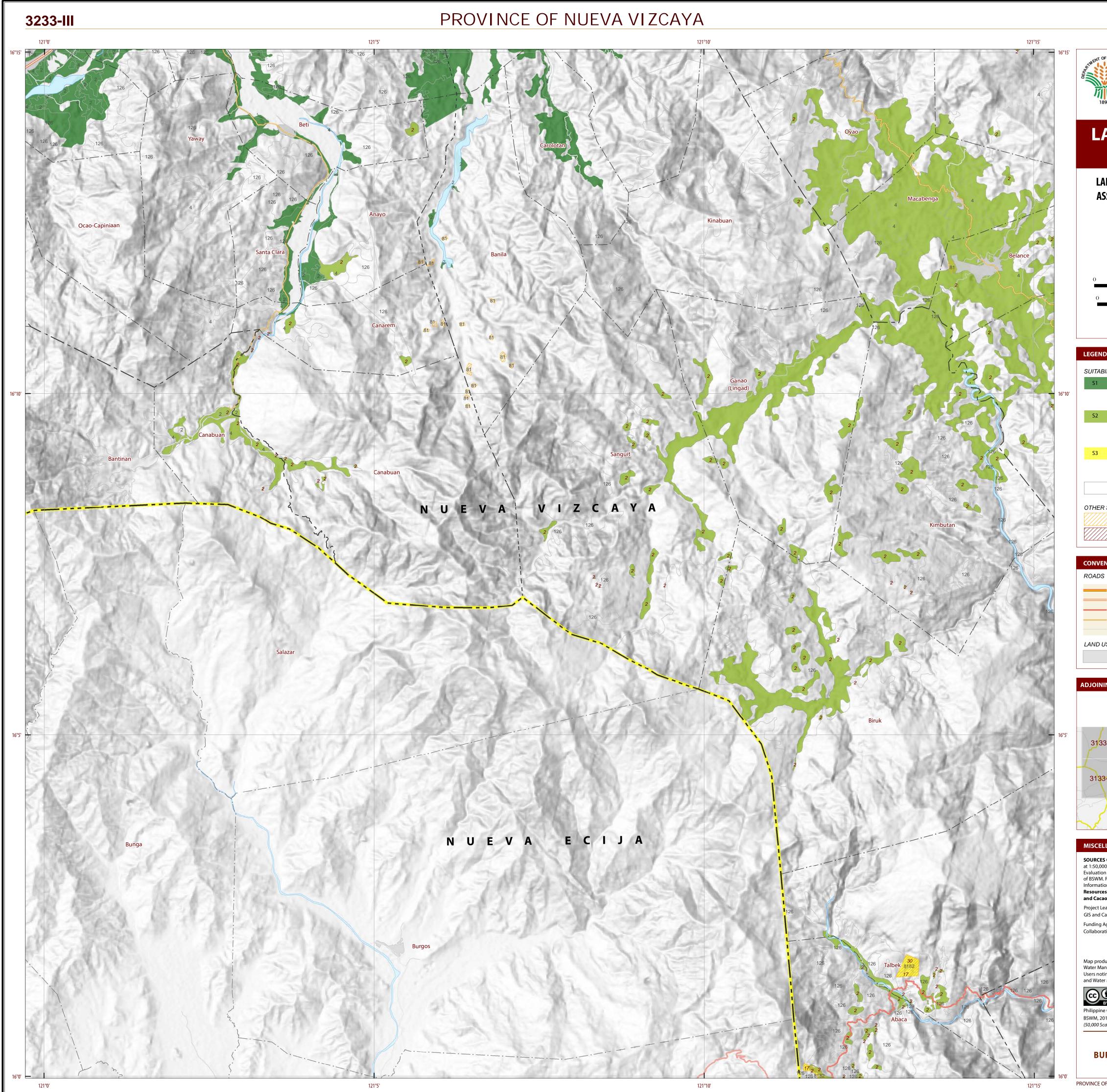
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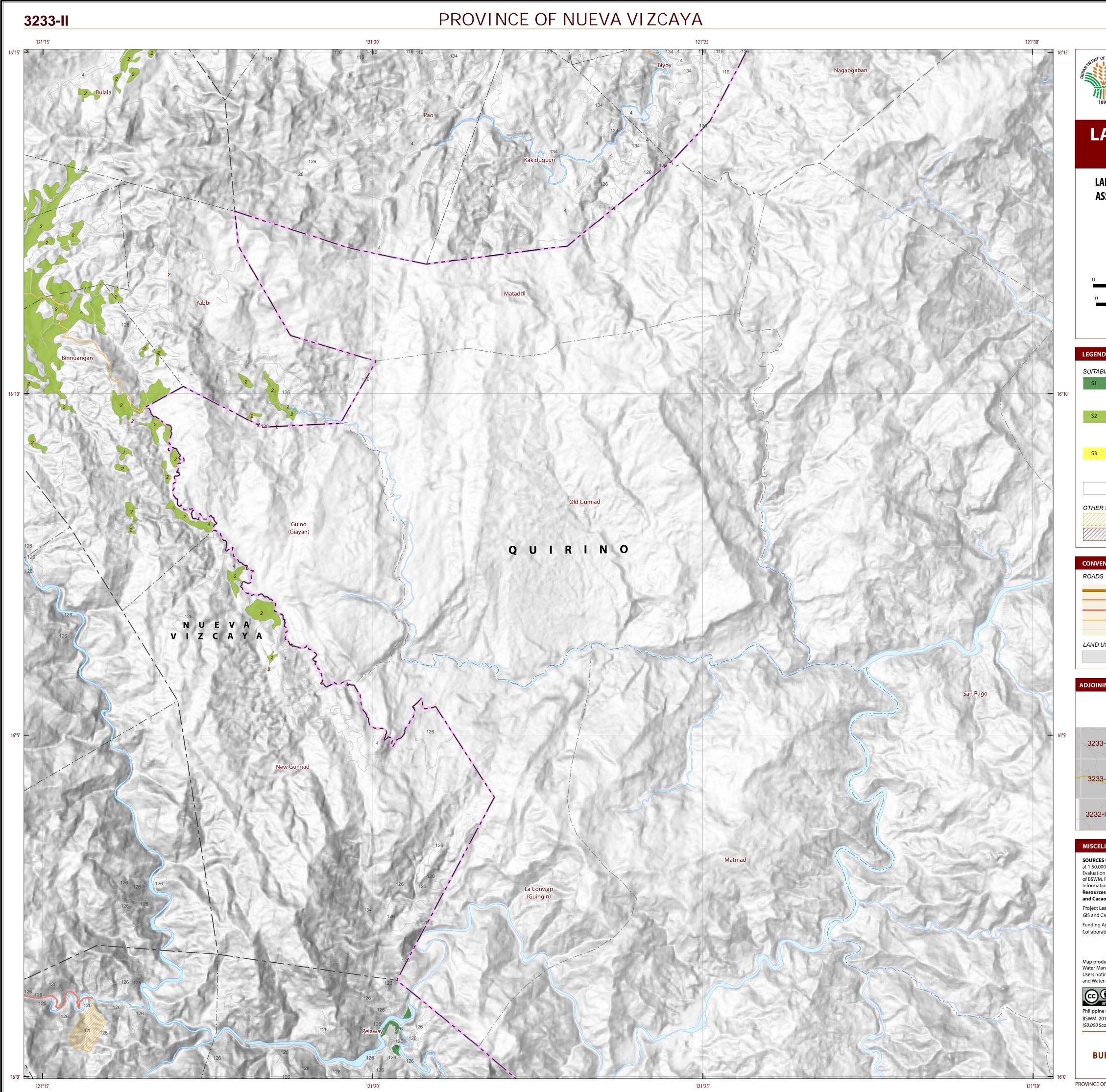
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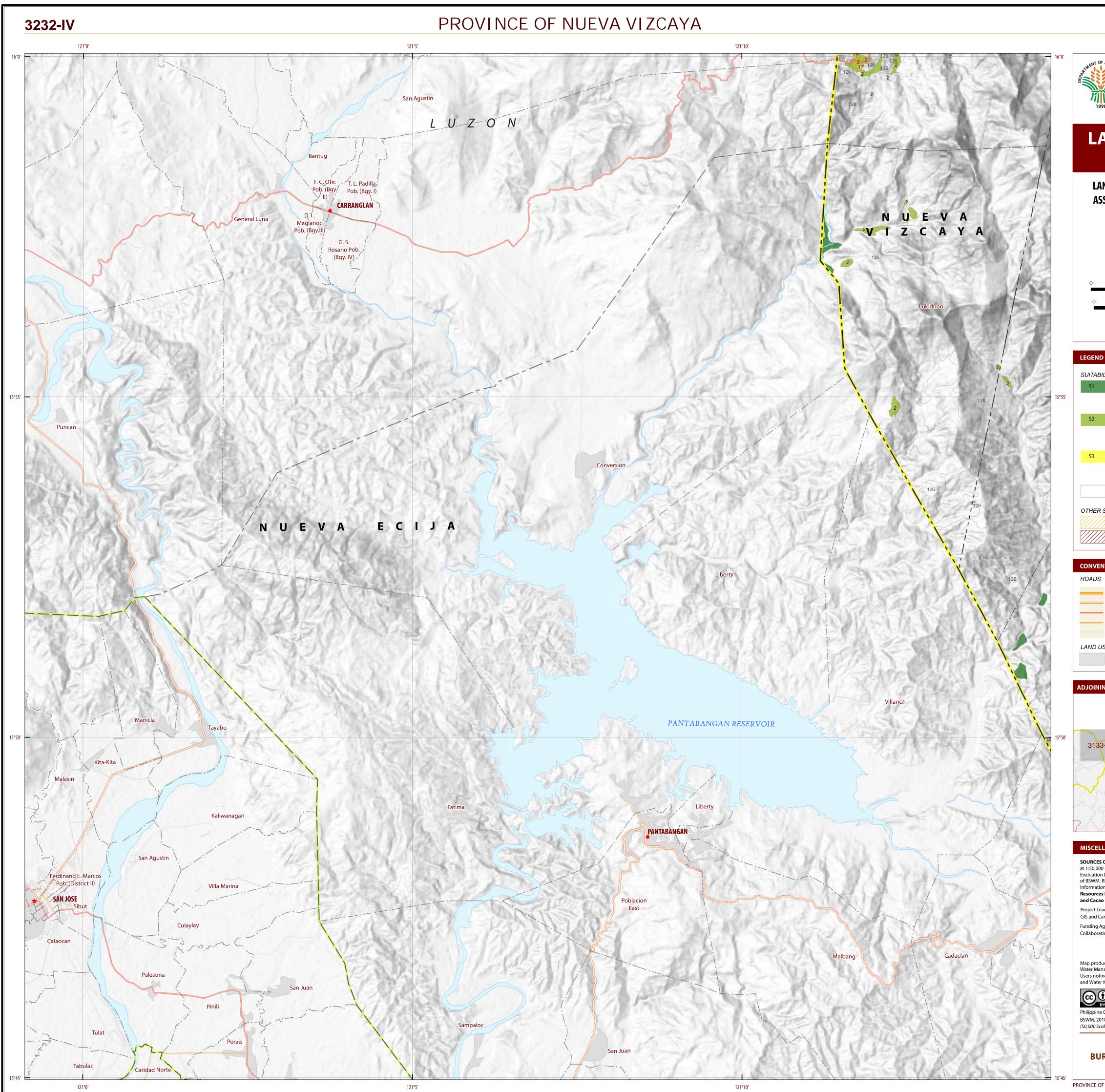
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