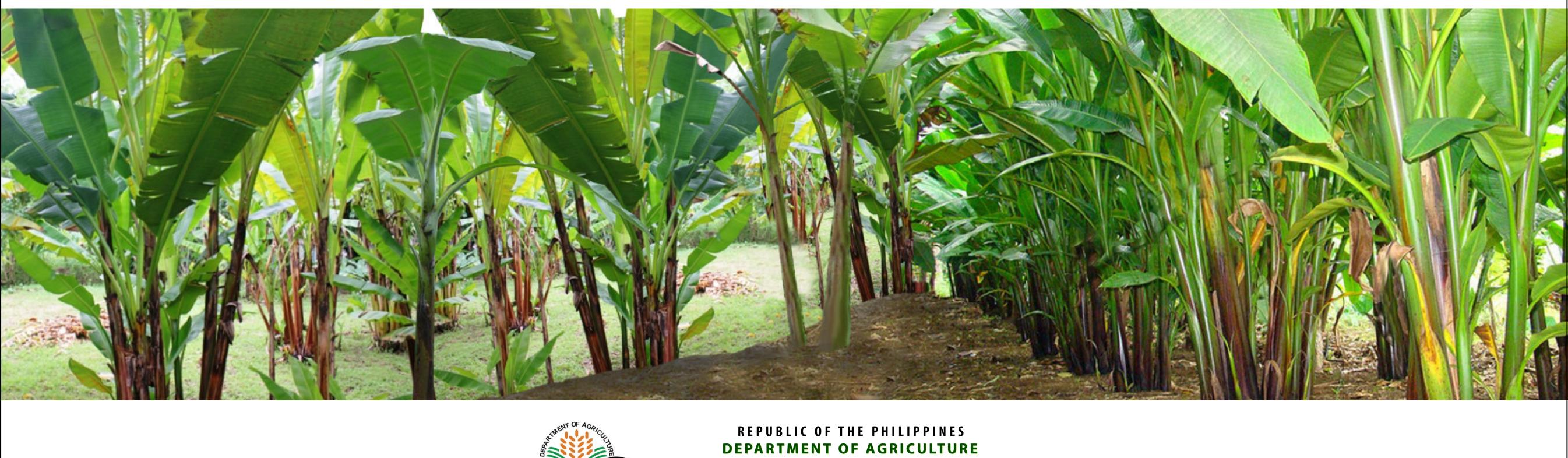


## LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

# **PROVINCE OF BASILAN**



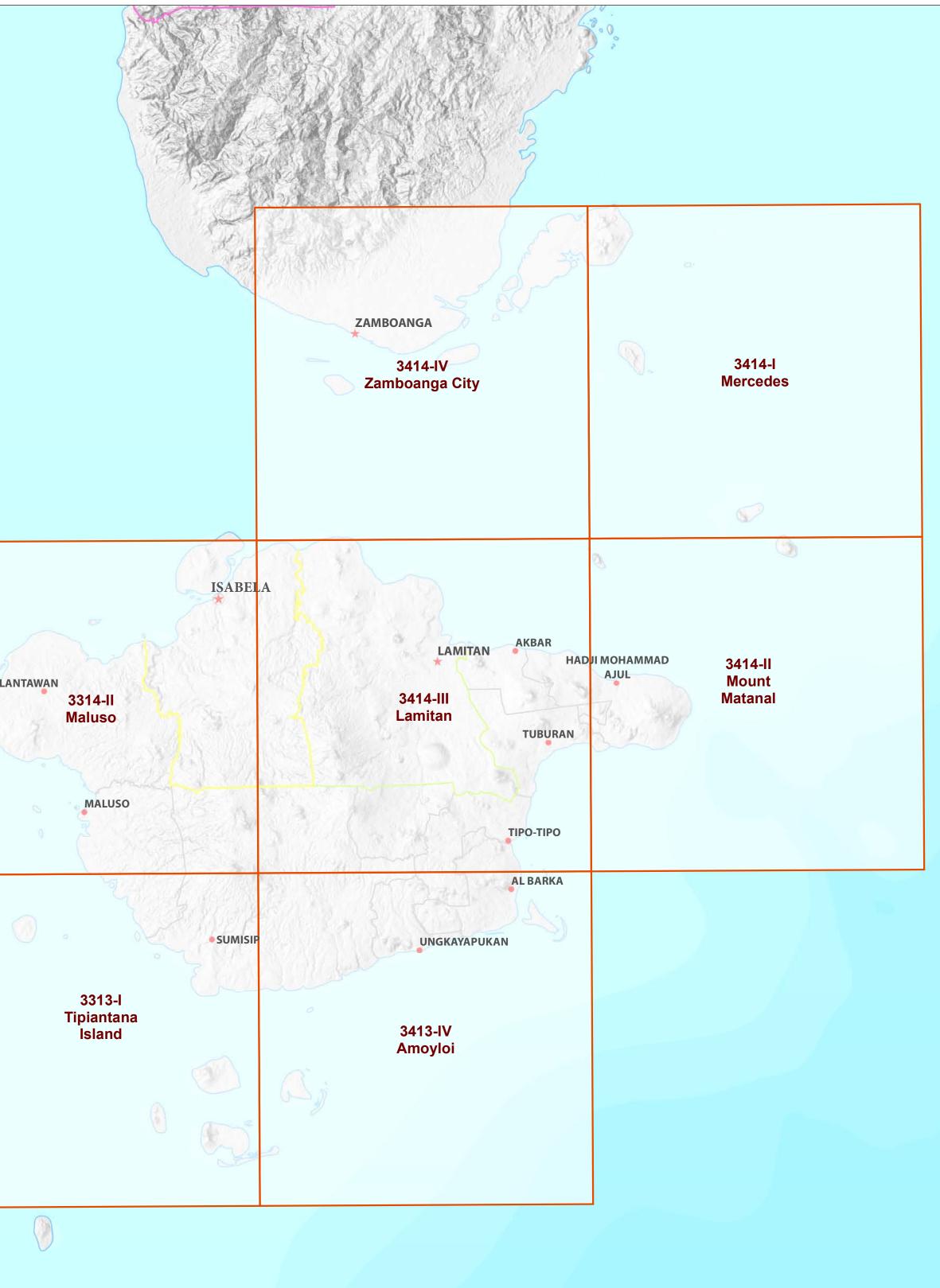
# LAND SUITABILITY MAP

## ABACA



**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

## **MAP INDEX** LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **PROVINCE OF BASILAN** ZAMBOANGA 3314-IV Teinga 3414-I 3414-IV Island **Mercedes** Zamboanga City 3214-I Dassalan Island ISABELA AKBAR HADJI LAMITAN MUHTAMAD HADJI MOHAMMAD 3414-II AJUL Mount LANTAWAN 3414-III Matanal 3314-II 3314-III Lamitan Pangahasan Maluso TUBURAN MALUSO **TIPO-TIPO** AL BARKA SUMISII UNGKAYAPUKAN 3313-I Tipiantana 3413-IV Island Amoyloi 0 Agricultural Research (BAR). . Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com





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## LAND SUITABILITY MAP FOR ABACA

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **PROVINCE OF BASILAN, ARMM**

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

						EX	PANSION	AREA (Ha	)			CONF	LICT RESC	<b>DLUTION</b>	(Ha)		TOTAL
MUNICIPALITY	EXISTI	EXISTING ABACA (Ha)		TOTAL EXISTING AREA (Ha)	Сосо	nut	Shrut unmar	-	Grassla unmana		Со	rn	Paddy non-irr	-	Other	crops	POTENTIAL EXPANSION
	<b>S1</b>	S2	<b>S</b> 3		<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	<b>S</b> 2	<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	AREA (Ha)
AKBAR	-	-	-	-	982	1,372	-	-	9	10	-	-	-	-	-	-	2,374
AL-BARKA	-	-	-	-	283	3,033	-	-	5	-	-	-	-	-	-	-	3,320
CITY OF LAMITAN	-	-	-	-	6,581	9,677	-	73	60	22	-	-	-	-	-	-	16,413
HADJI MOHAMMAD AJUL	-	-	-	-	1,575	2,580	-	-	124	33	-	-	-	-	-	-	4,311
HADJI MUHTAMAD	-	-	-	-	-	13	-	-	-	409	-	-	-	-	-	-	422
LANTAWAN	-	-	-	-	3,657	6,815	6	-	30	2	-	-	-	-	-	-	10,511
MALUSO	-	-	-	-	1,538	3,727	5	-	61	6	-	-	-	-	-	-	5,337
SUMISIP	-	-	-	-	1,752	11,446	6	17	-	-	-	-	-	-	-	-	13,220
TABUAN-LASA	-	-	-	-	-	51	-	-	-	272	-	-	-	-	-	-	323
TIPO-TIPO	-	-	-	-	1,133	2,612	-	-	-	-	-	-	-	-	-	-	3,744
TUBURAN	-	-	-	-	1,068	2,004	-	-	-	-	-	-	-	-	-	-	3,073
UNGKAYA PUKAN	-	-	-	-	382	3,949	-	-	-	-	-	-	-	-	-	-	4,331
Total Area (Ha)	-	-	-		18,951	47,280	17	90	290	753	-	-	-	-	-	-	67,380

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

### AGRONOMIC REQUIREMENT OF ABACA PRODUCTION

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 RAINFALI (mm)	
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD, SPD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	1000-2000	) III, IV
Rubber Tree	S2	8 - 30	30 - 100	FSL, L, SiL, SL	PD,VPD	4.5 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1000	2001-4500	) I, II, III
	S3	>30	<30	S, LS, CSL	ED	<4.5 - > 7.9	low	severe	severe	many	>1000	<1000 >4500	
SLOPE (%)			SOIL DRAINAG	GE		SOIL REACTI	ON (pH)		SOIL TEXT	URE			
- 3 - leve	l to gently sloping	5	ED - ex	cessively drained		< 4.5 - ez	xtremely acid		Coarse			Fine	
3 - 8 - gent	ly sloping to undu	ulating	WD - we	ell drained		4.5 - 5.0 - v	ery strongly acid		S	- sand		SC -	sandy clay
8 - 18 - und	ulating to rolling		MWD - mo	oderately well dra	ined	5.1 - 5.5 - st	trongly acid		LS	- loamy sand		SiC -	silty clay
18 - 30 - rolli	ng to moderately	steep	SPD - so	mewhat poorly dr	ained	5.6 - 6.0 - m	nedium acid		CSL	- coarse sandy loam		C -	clay
30 - 50 - stee	р		PD - po	orly drained		6.1 - 6.5 - sl	ightly acid		SL	- sandy loam		HC -	heavy clay
> 50 - very	/ steep		VPD - ve	ry poorly drained		6.6 - 7.2 - n	eutral		Medium				
						7.3 - 7.8 - m	uildly alkaline		FSL	- fine sandy loam			
SOIL DEPTH (cr	n)		SURFACE IMP	EDIMENT		7.9 - 8.4 - m	noderately alkaline		L	- loam			
) - 30 - very	v shallow		ROCK OUTCRO	PS		> 8.5 - st	trongly alkaline		SiL	- silt loam			
30 - 50 - shal	low		<10% - no	one - few					CL	- clay loam			
50 - 100 - mod	lerately deep		10 - 30% - со	mmon						- silty clay loam			
	p to very deep		> 30% - ma	any						- sandy clay loam			
ELEVATION	00m or 2000 - 250		<b>SOIL DRAINA</b> D2 - Some	what poorly drain	ATIONS ed to poorly draine excessively draine	ed	<b>SOIL DEPTH</b> Sh2 - Shallow to Sh3 - Very shallo	moderately deep ow (< 30cm)	(30 - 100cm)	<b>SOIL EROSION</b> E2 - Modera E3 - Severe e	te erosion erosion		
E12 - 500 - 100 E13 - < 500 m o							<b>ROCK OUTCROPS</b>	5		FLOODING			
	RAPHY		SOIL TEXTU	RE									
El3 - < 500m o SLOPE/TOPOGE	RAPHY ng to moderately :	steep		RE e texture			Rc2 - Common			F2 - Modera	te seasonal flood	ing	

CODE	LIMITATION	CODE	LIMITATION
1	F2-D2	11	T2-F3-D2
2	F2-Tc	12	T2-Sh2-Rc2
3	F3-D2	13	ТЗ-ЕЗ
4	Sh2-Rc2	14	T3-E3-Sh3-Rc2
5	T2	15	T3-E3-Sh3-Rc3
6	T2-E2-Sh2-Rc2	16	T3-F3-D2
7	Т2-ЕЗ	17	T4-E3
8	T2-E3-Sh2-Rc2	18	T4-E3-Sh3-Rc3
9	T2-E3-Sh2-Rc3	19	T4-F3-D2
10	T2-F2-D2	20	T5-El3

r	1
CODE	LANDUSE
2	Paddy rice, non-irrigated
116	Coconut
126	Grassland
134	Shrubs, unmanaged
137	Rubber

### **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.

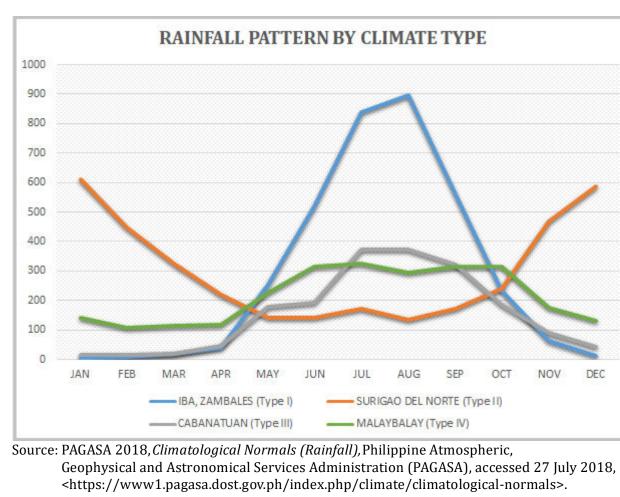
### Moderately Suitable (S2)

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
- **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.

The whole part of Basilan is classified as climate Type IV.



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.



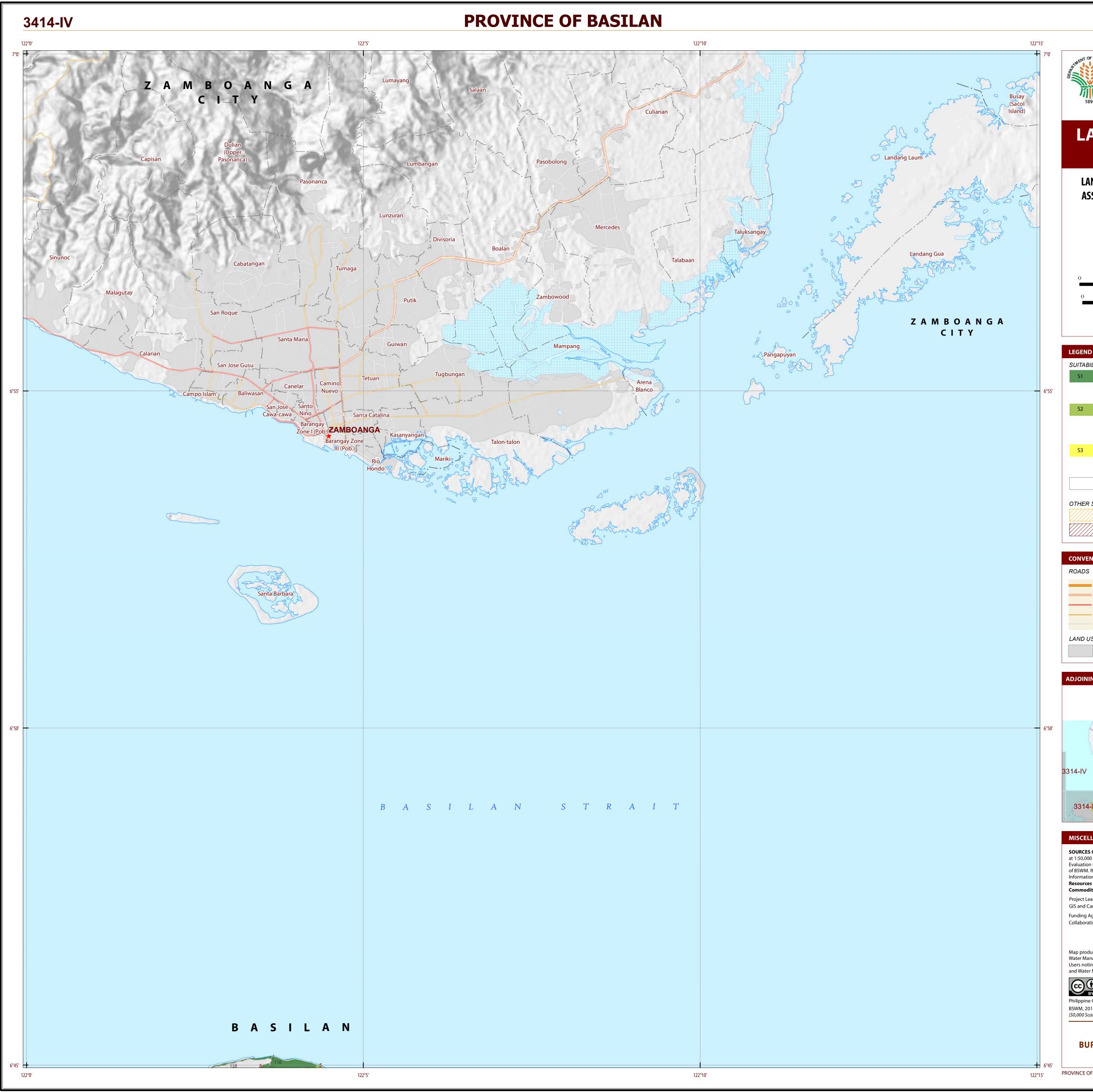
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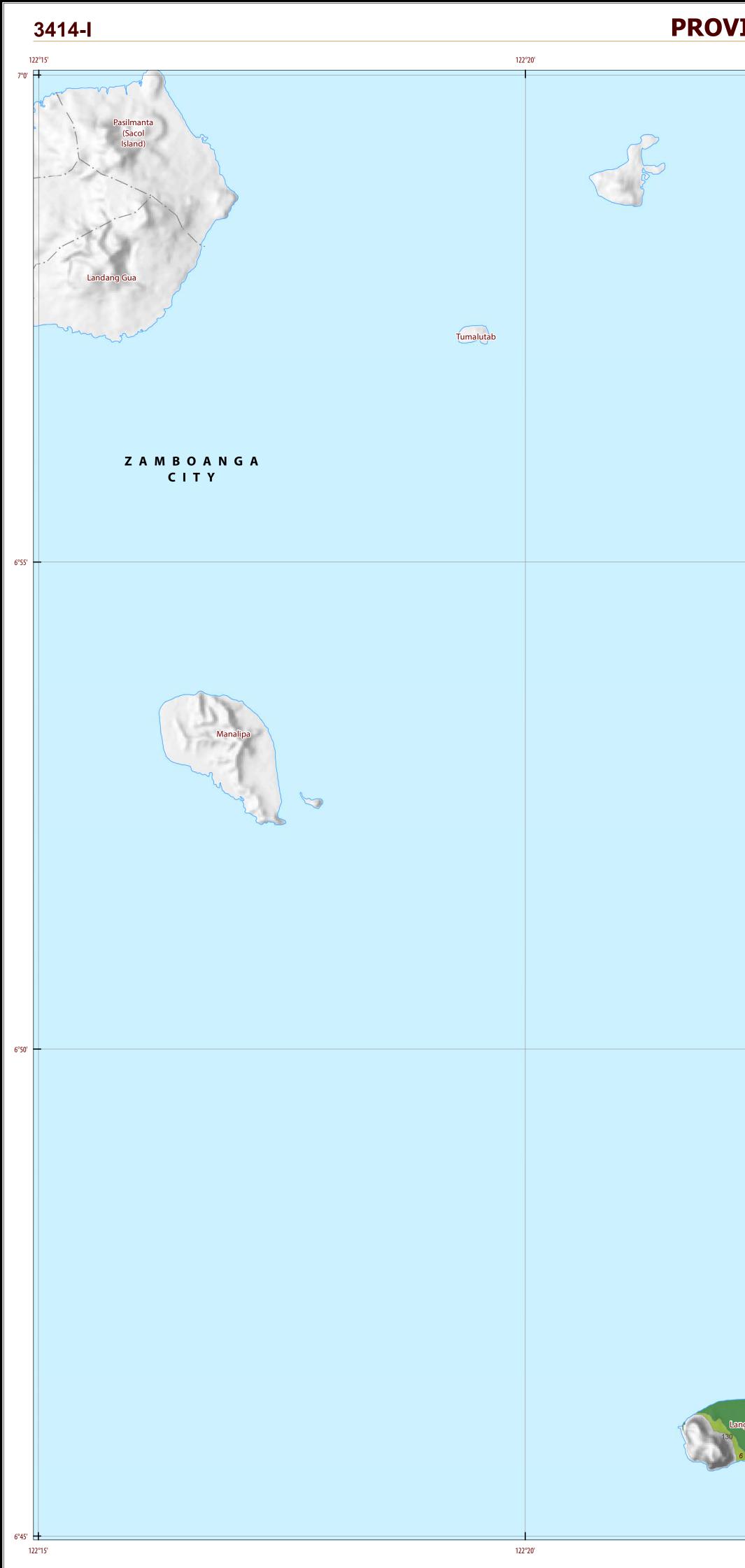


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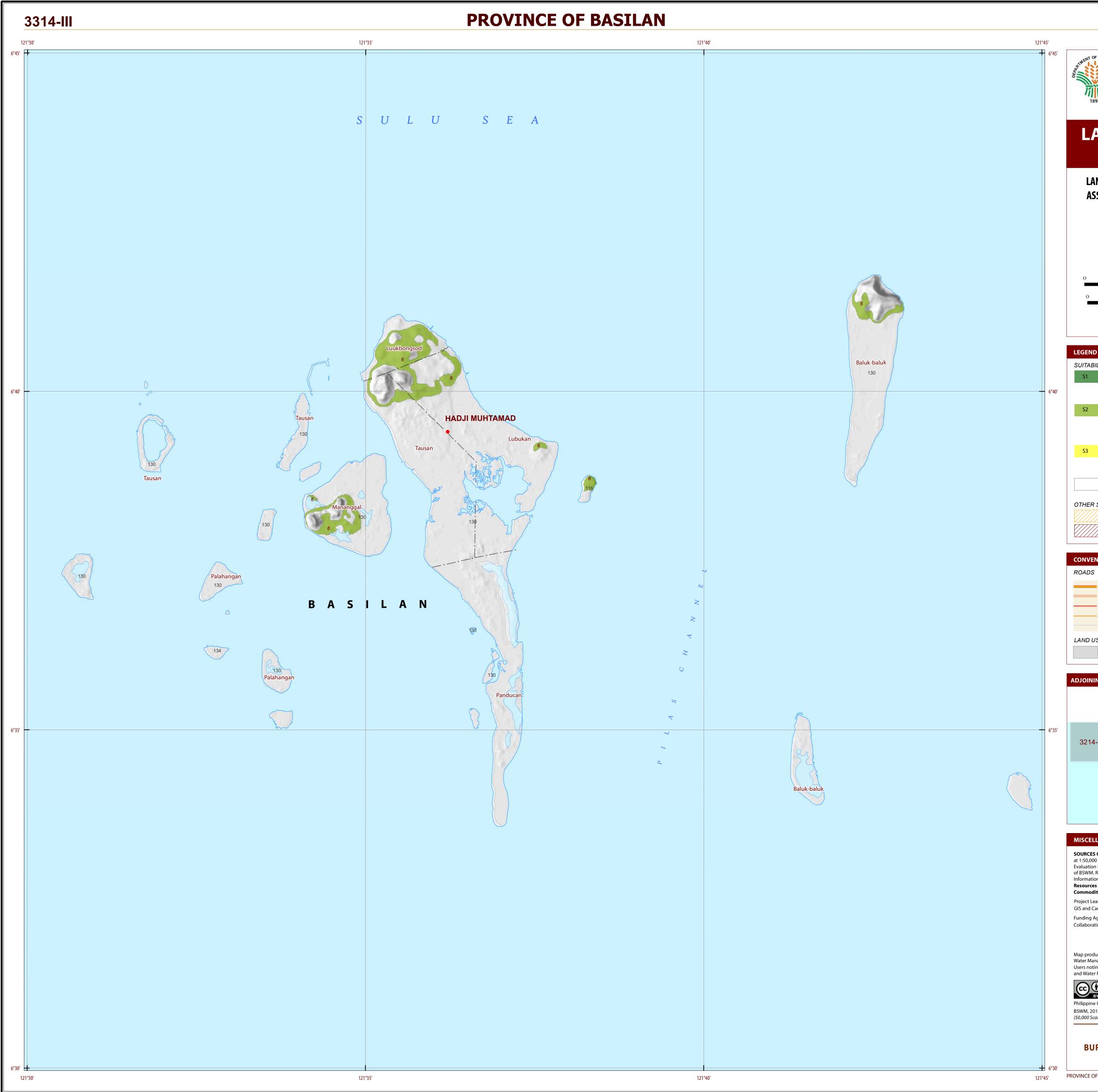


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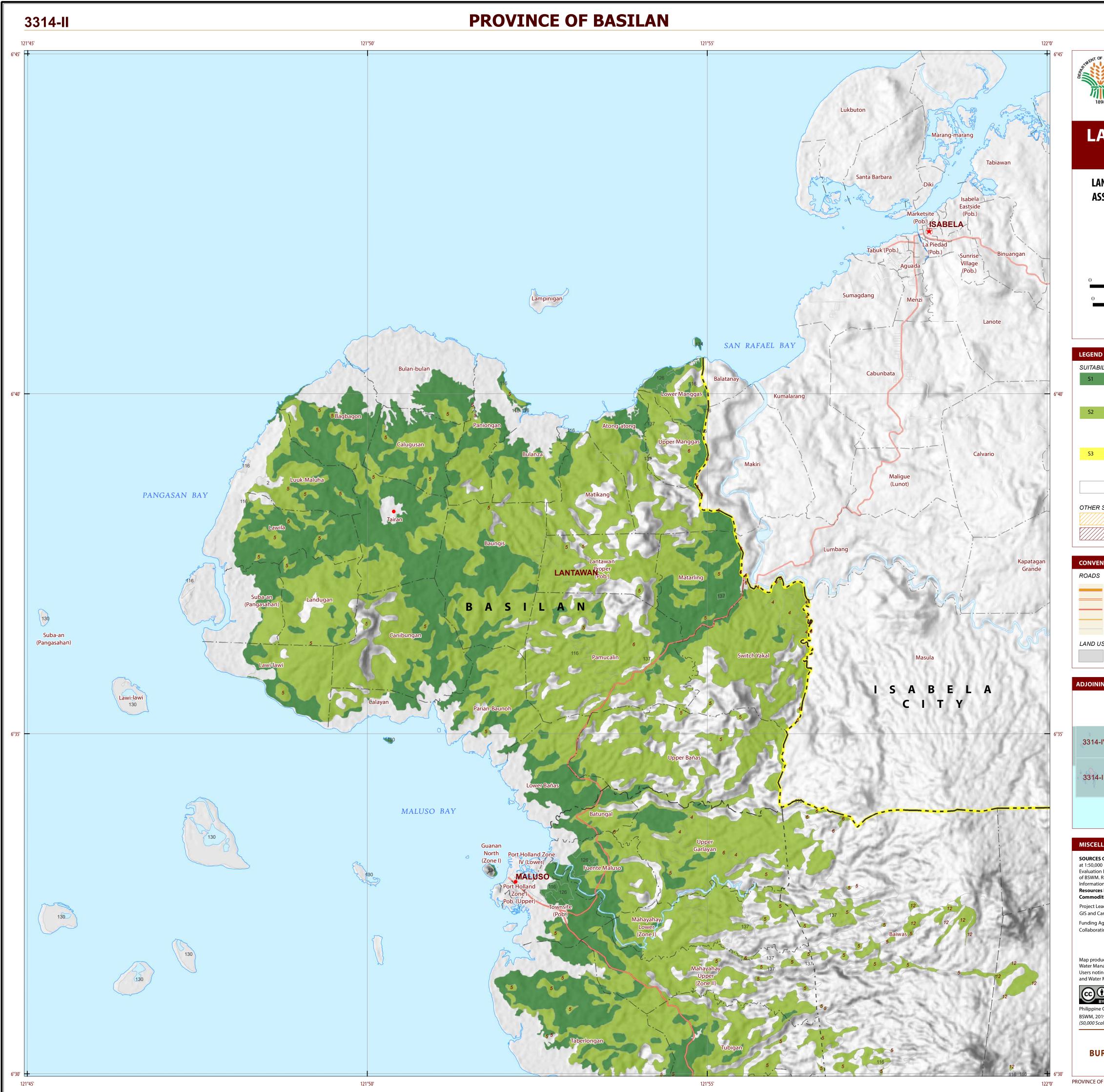


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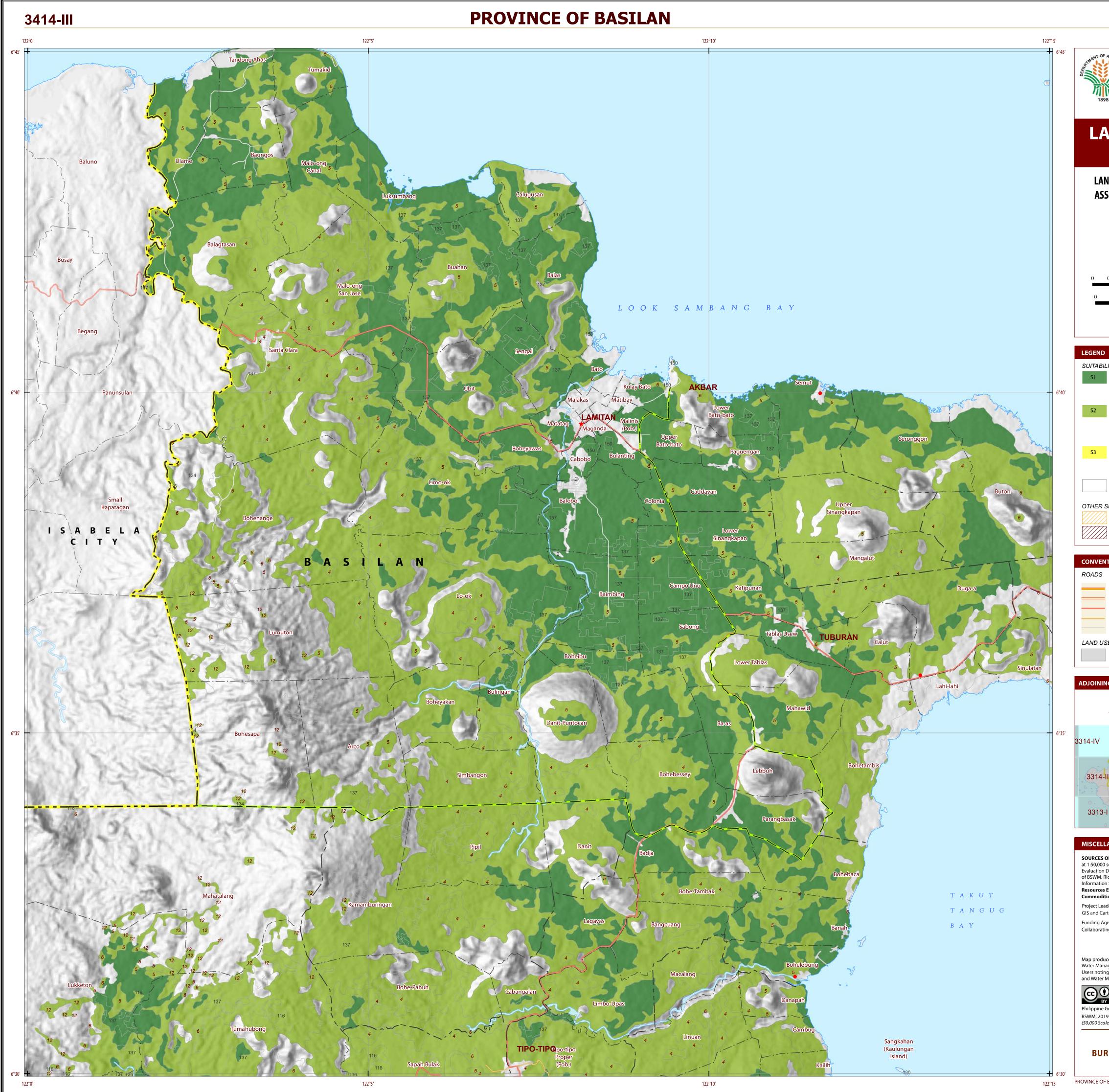
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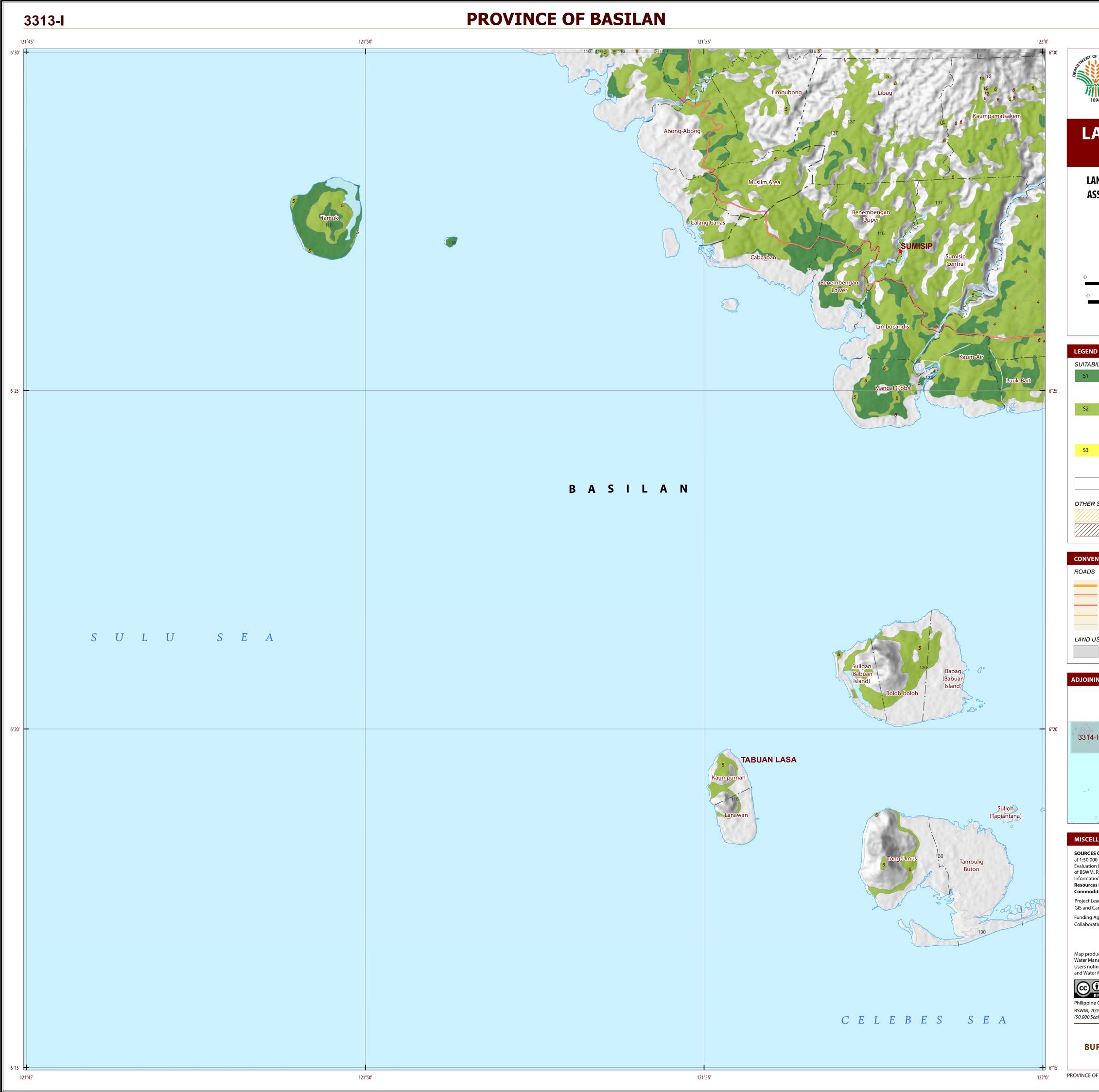
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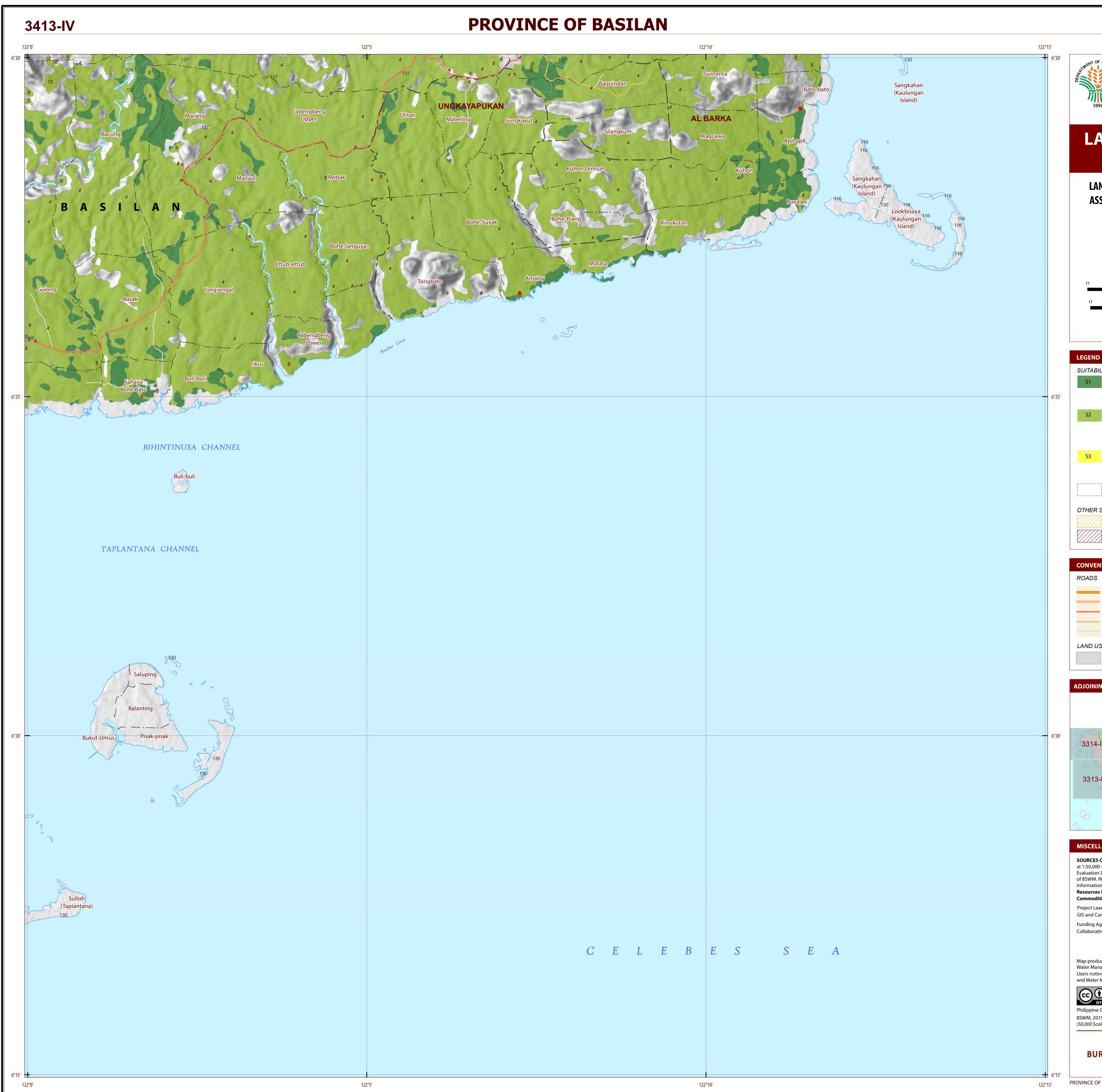
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