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

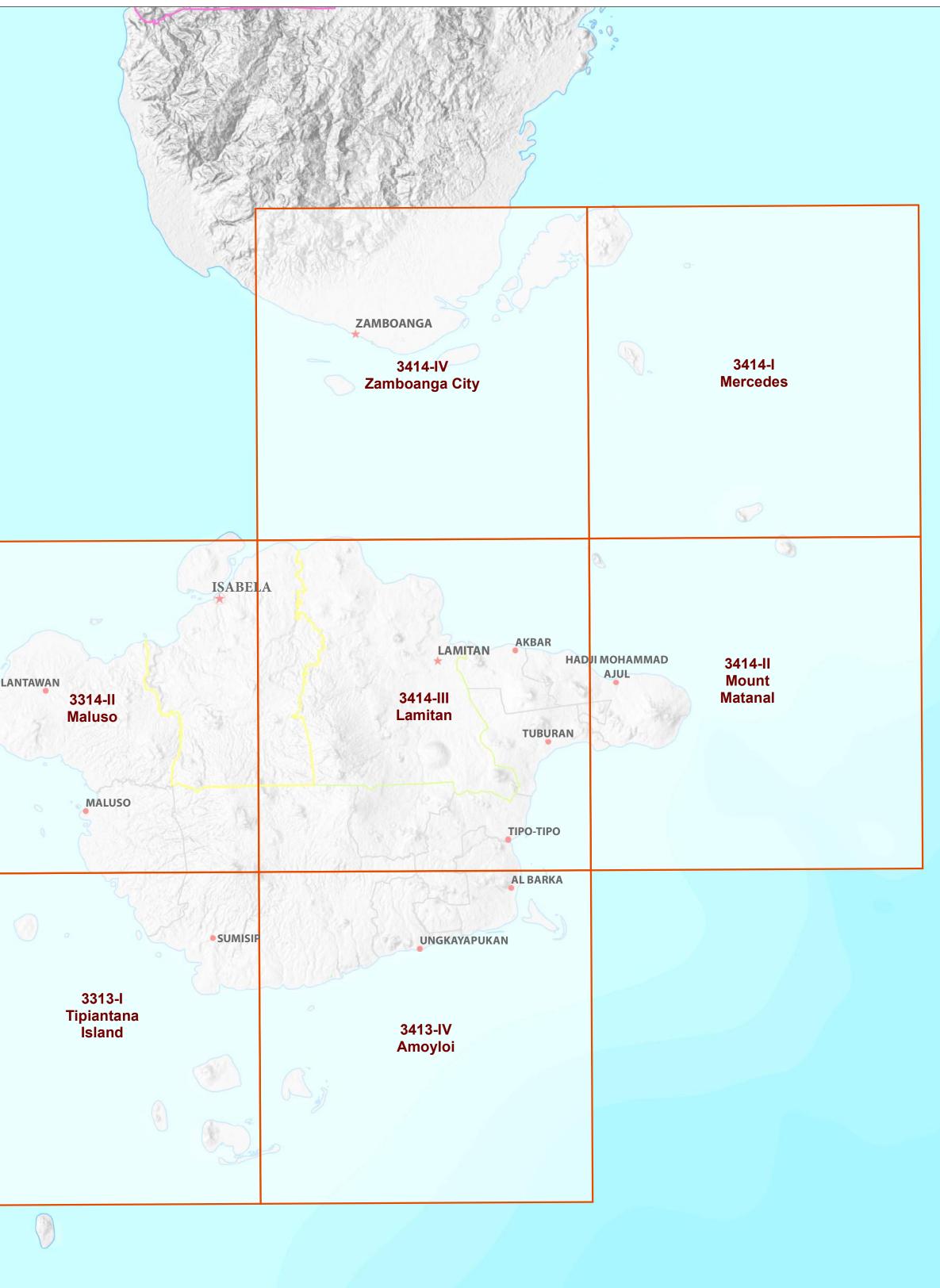
PROVINCE OF BASILAN



LAND SUITABILITY MAP

NATURAL RUBBER

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 0 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 Agricultural Research (BAR). Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com





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LAND SUITABILITY MAP FOR **RUBBER**

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

EXTENT OF SUITABILITY FOR RUBBER PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (Ha)			CONF	LICT RESO	OLUTION	(Ha)		TOTAL
MUNICIPALITY	EXISTIN	G RUBBE	R (Ha)	TOTAL EXISTING AREA (Ha)	Сосо	onut	Shrub unman		Grassl unmana		Co	rn	Paddy non-irr		Other	crops	POTENTIAL EXPANSION
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
AKBAR	-	-	-	-	982	1,372	-	-	9	10	-	-	-	-	-	-	2,374
AL-BARKA	-	-	-	-	283	3,033	-	-	5	-	-	-	-	-	-	-	3,320
CITY OF LAMITAN	-	-	-	-	6,581	9,611	-	73	60	22	-	-	-	-	-	-	16,348
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	11,275	6	17	-	-	-	-	-	-	-	-	13,049
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	47,043	17	90	290	753	-	-	-	-	-	-	67,143

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

AGRONOMIC REOLUREMENT OF RUBBER PRODUCTION

17 T3-E3-Sh3-Rc2

18 T3-E3-Sh3-Rc3

20 T3-F3-D2

19 T3-El2-E3-Sh3-Rc2

7 T2-E2-Sh2-Rc2

9 T2-E3-Sh2-Rc2

10 T2-E3-Sh2-Rc3

8 T2-E3

LAND 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 RAINFALL (mm)	CLIMATI TYPE
	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 DRAINA	GE		SOIL REACTI	ION (pH)		SOIL TEXT	TURE			
) - 3 - leve	el to gently sloping	5	ED - ex	cessively drained		< 4.5 - e	extremely acid		Coarse			Fine	
3 - 8 - gen	tly sloping to und	ulating	WD - we	ell drained		4.5 - 5.0 - v	very strongly acid		S	- sand		SC - sa	ndy clay
	lulating to rolling			oderately well dra			trongly acid			- loamy sand		SiC - si	ty clay
	ing to moderately	steep		mewhat poorly dr	ained		nedium acid			- coarse sandy loam		C - cl	=
30 - 50 - stee	-		-	orly drained			lightly acid			- sandy loam		HC - he	eavy clay
>50 - ver	y steep		VPD - ve	ry poorly drained			neutral		Medium	<i>c</i> , , , , ,			
							nildly alkaline			- fine sandy loam			
SOIL DEPTH (c	-		SURFACE IMP				noderately alkaline			- loam			
	y shallow		ROCK OUTCRO			> 8.5 - s	trongly alkaline		SiL	- silt loam			
30 - 50 - sha				ne - few						- clay loam			
	derately deep p to very deep		10 - 30% - co > 30% - ma	mmon						- silty clay loam - sandy clay loam			
ELEVATION	00m or 2000 - 250	S DESCRIF	SOIL DRAINA	GE	ed to poorly draine		SOIL DEPTH Sh2 - Shallow to	moderately deep	(30 - 100cm)	SOIL EROSION E2 - Modera	te erosion		
El3 - < 500m c	or > 2500m				excessively drained		Sh3 - Very shallo			E3 - Severe	erosion		
SLOPE/TOPOG			SOIL TEXTUR				ROCK OUTCROPS	;		FLOODING			
Γ2 - Undulati	ng to moderately	steep		RE e texture			Rc2 - Common			F2 - Modera	te seasonal floodi	0	
Γ2 - Undulati		steep								F2 - Modera	te seasonal floodi seasonal flooding	0	
Γ2 - Undulati	ng to moderately	steep					Rc2 - Common			F2 - Modera		0	
72 - Undulati	ng to moderately	steep					Rc2 - Common			F2 - Modera		0	
2 - Undulati 3 - Steep to	ng to moderately : very steep	-	Tc - Coarse	e texture			Rc2 - Common			F2 - Modera		0	
CODE LIN	ng to moderately : very steep	CODE LIM	Tc - Coarse	e texture	ΓΑΤΙΟΝ		Rc2 - Common			F2 - Modera		0	
T2 - Undulati T3 - Steep to T3 - Steep to	ng to moderately : very steep	CODE LIM 11 T2-El2-E	Tc - Coarse ITATION (3-Sh2-Rc2	20DE LIMI7 21 T3-E3		CO	Rc2- CommonRc3- ManyDDELANI2Paddy rice, no	DUSE		F2 - Modera		0	
'2 - Undulati '3 - Steep to CODE LIN 1 El2 2 F2-D2	ng to moderately : very steep	CODE LIM 11 T2-El2-E 12 T2-El2-E	Tc - Coarse ITATION (3-Sh2-Rc2 3-Sh2-Rc3	code LIMI7 21 T3-E3 22 T3-E3-Sh3	B-Rc3		Rc2 - Common Rc3 - Many	DUSE		F2 - Modera		0	
'2 - Undulati '3 - Steep to '3 - Steep to 1 El2 2 F2-D2 3 F2-Tc	ng to moderately : very steep	CODE LIM 11 T2-El2-E 12 T2-El2-E 13 T2-El2-S	Tc - Coarse TATION (3-Sh2-Rc2 3-Sh2-Rc3 h2-Rc2	CODE LIMIT 21 T3-E3 22 T3-E3-Sh3 23 T3-E12-E3	3-Rc3 -Sh3-Rc3	CC 1 1	Rc2- CommonRc3- ManyDDELANI2Paddy rice, no16Coconut26Grassland	DUSE on-irrigated		F2 - Modera		0	
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T2 - Undulati T3 - Steep to T3 - Steep to T El2 2 F2-D2 3 F2-Tc	ng to moderately : very steep //ITATION	CODE LIM 11 T2-El2-E 12 T2-El2-E 13 T2-El2-S	Tc - Coarse ITATION I 3-Sh2-Rc2 3 3-Sh2-Rc3 6 h2-Rc2 2	CODE LIMIT 21 T3-E3 22 T3-E3-Sh3 23 T3-E12-E3	3-Rc3 -Sh3-Rc3	C0 1 1 1 1	Rc2- CommonRc3- ManyDDELANI2Paddy rice, no16Coconut26Grassland	DUSE on-irrigated		F2 - Modera		0	

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.

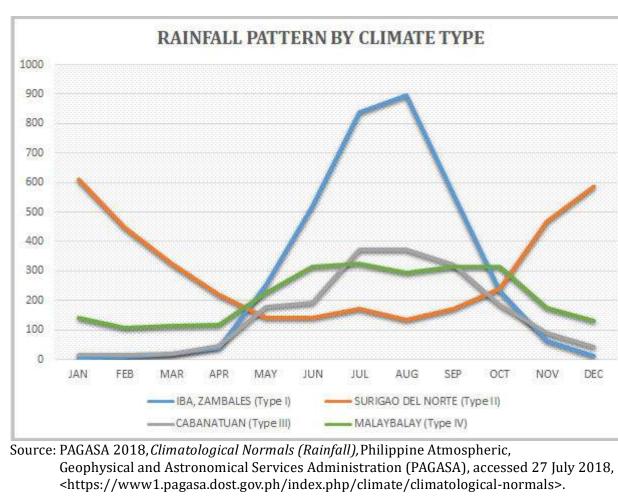
Moderately Suitable (S2)

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.



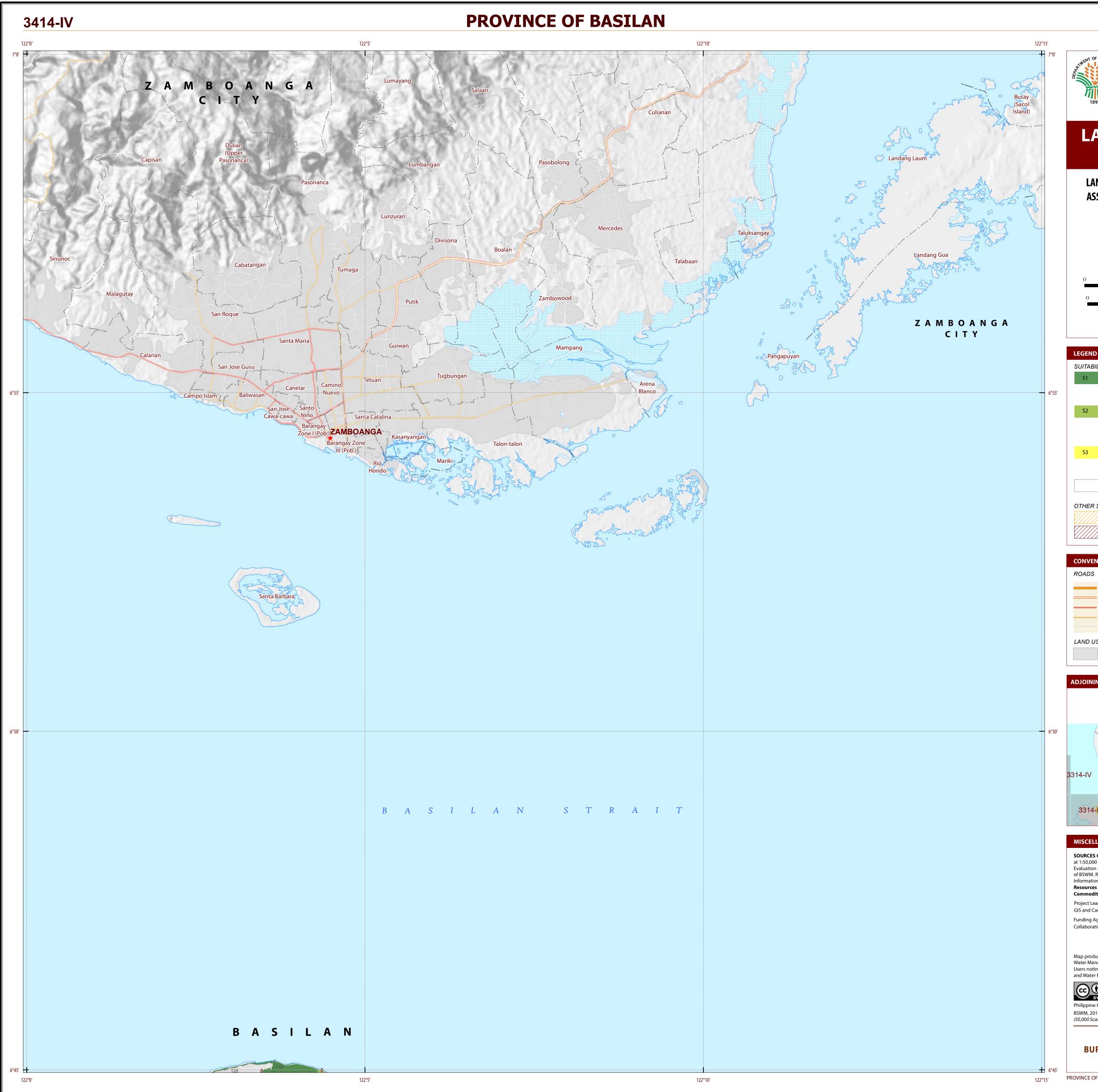
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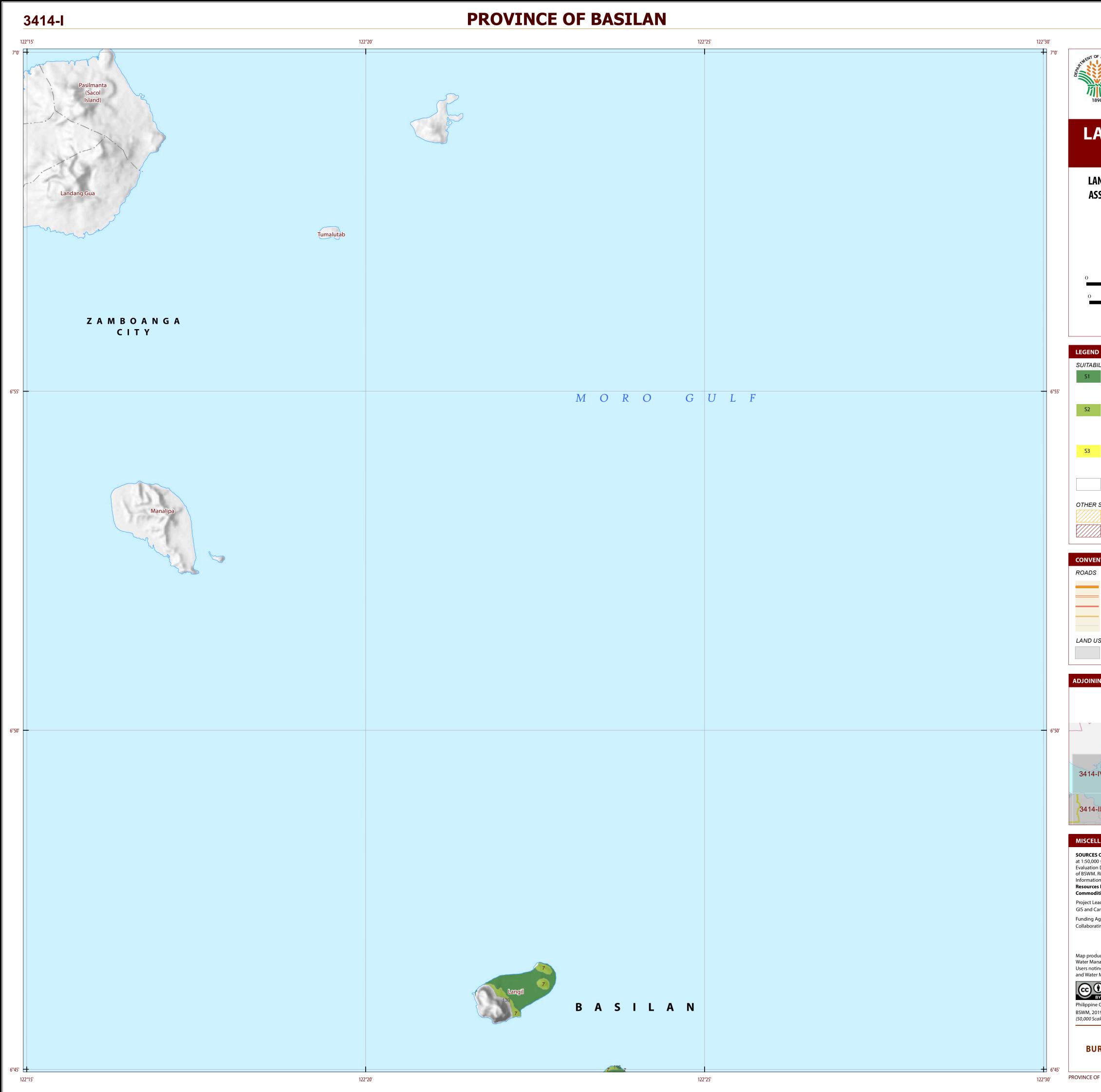


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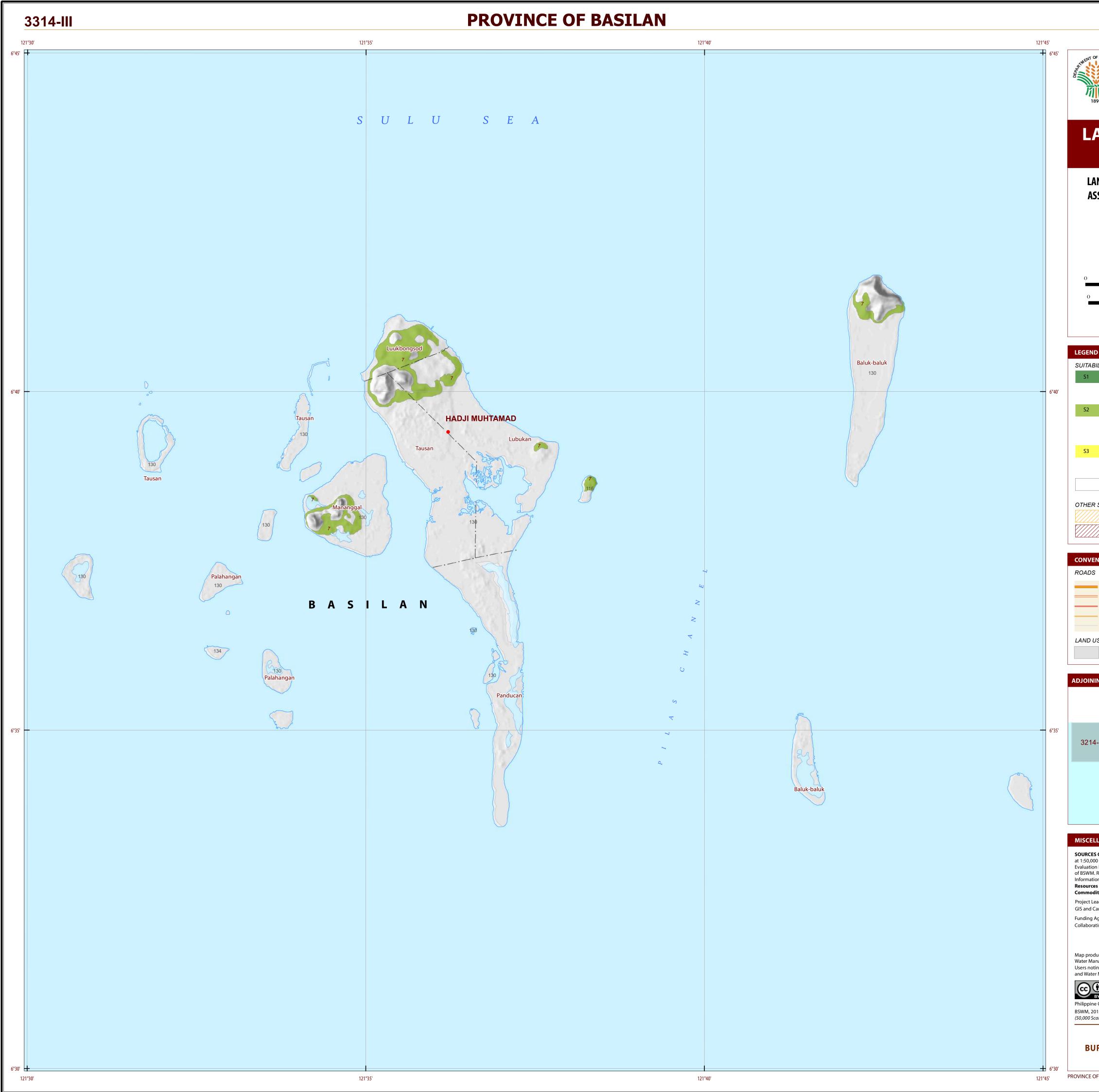
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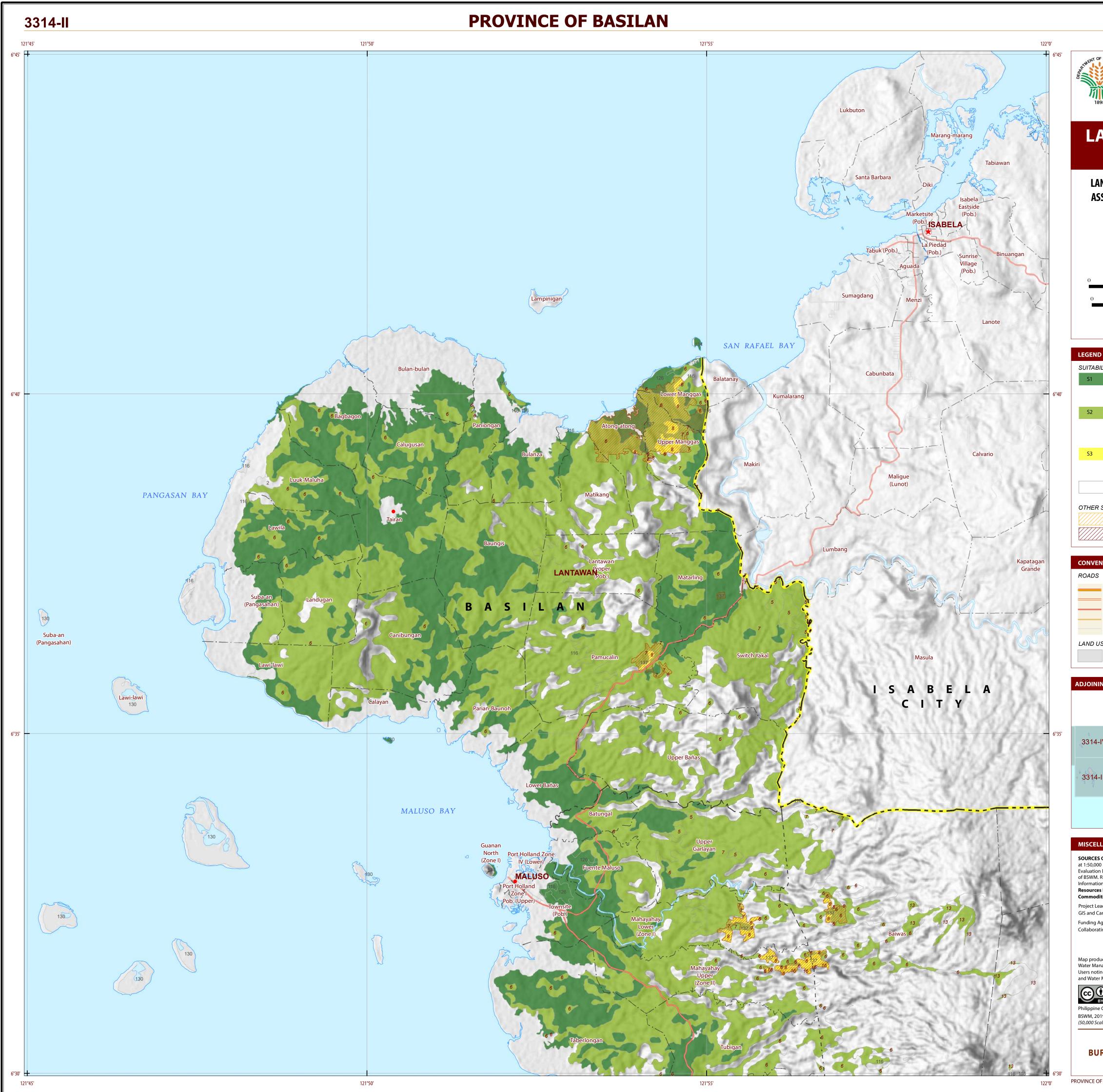
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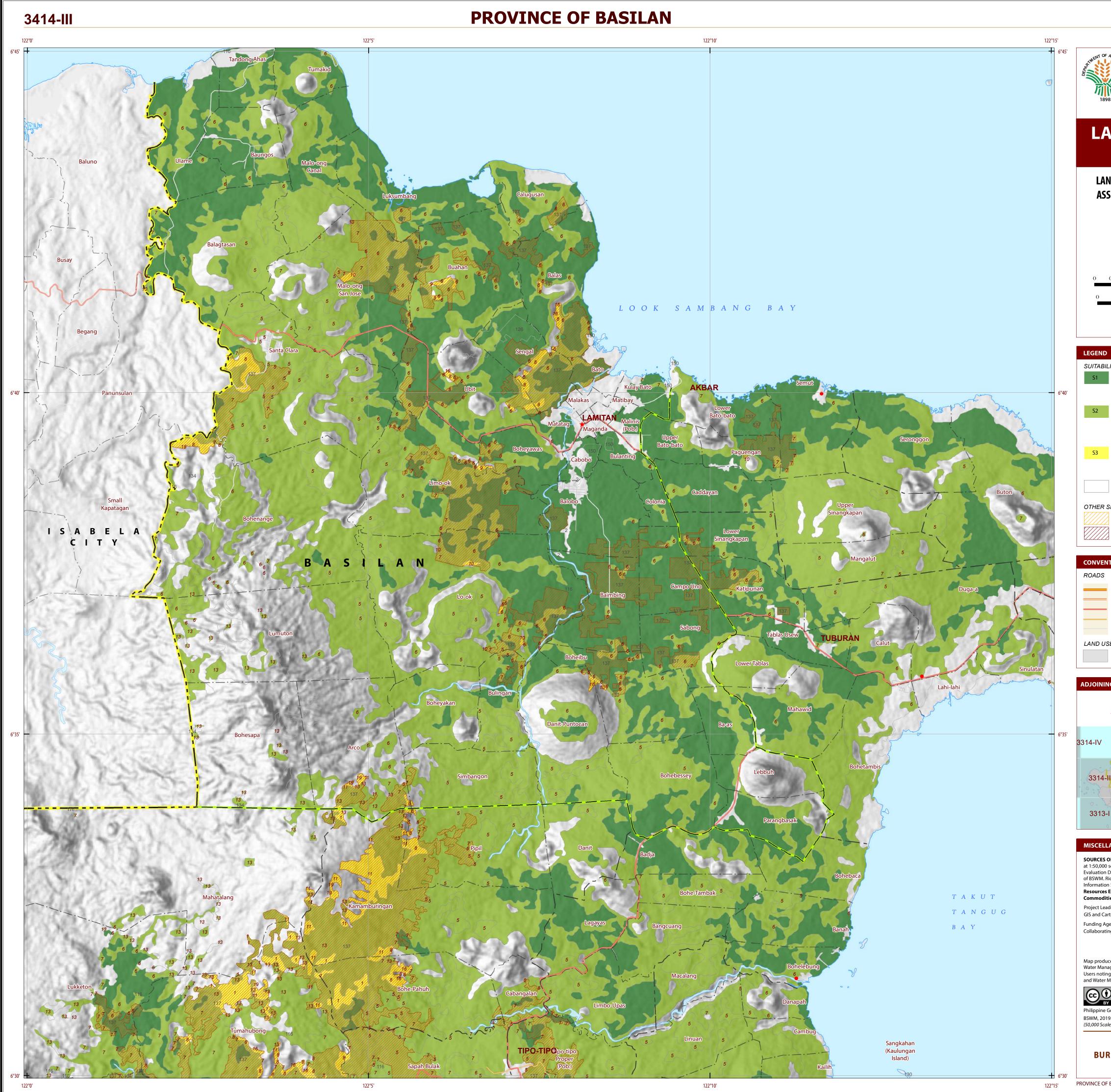
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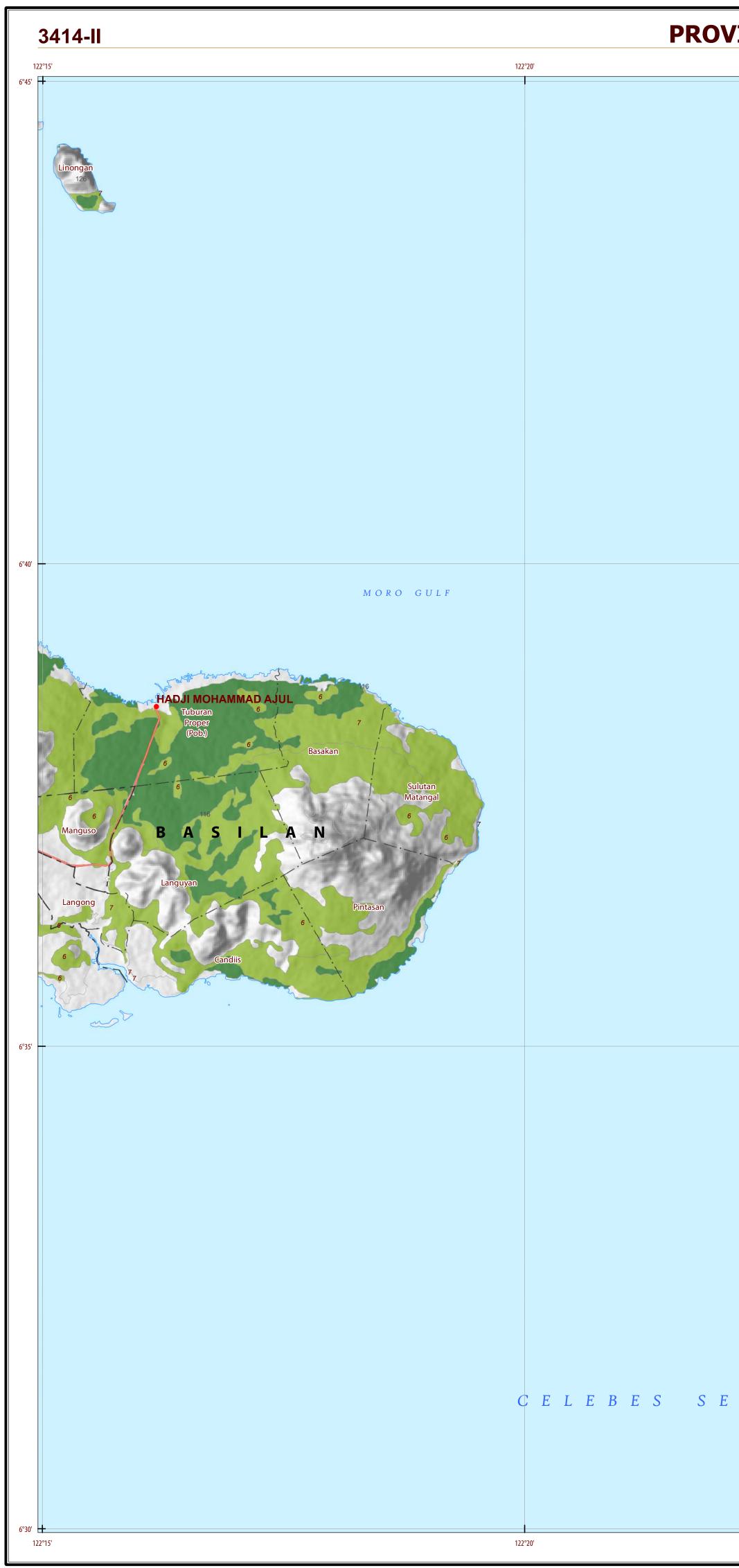
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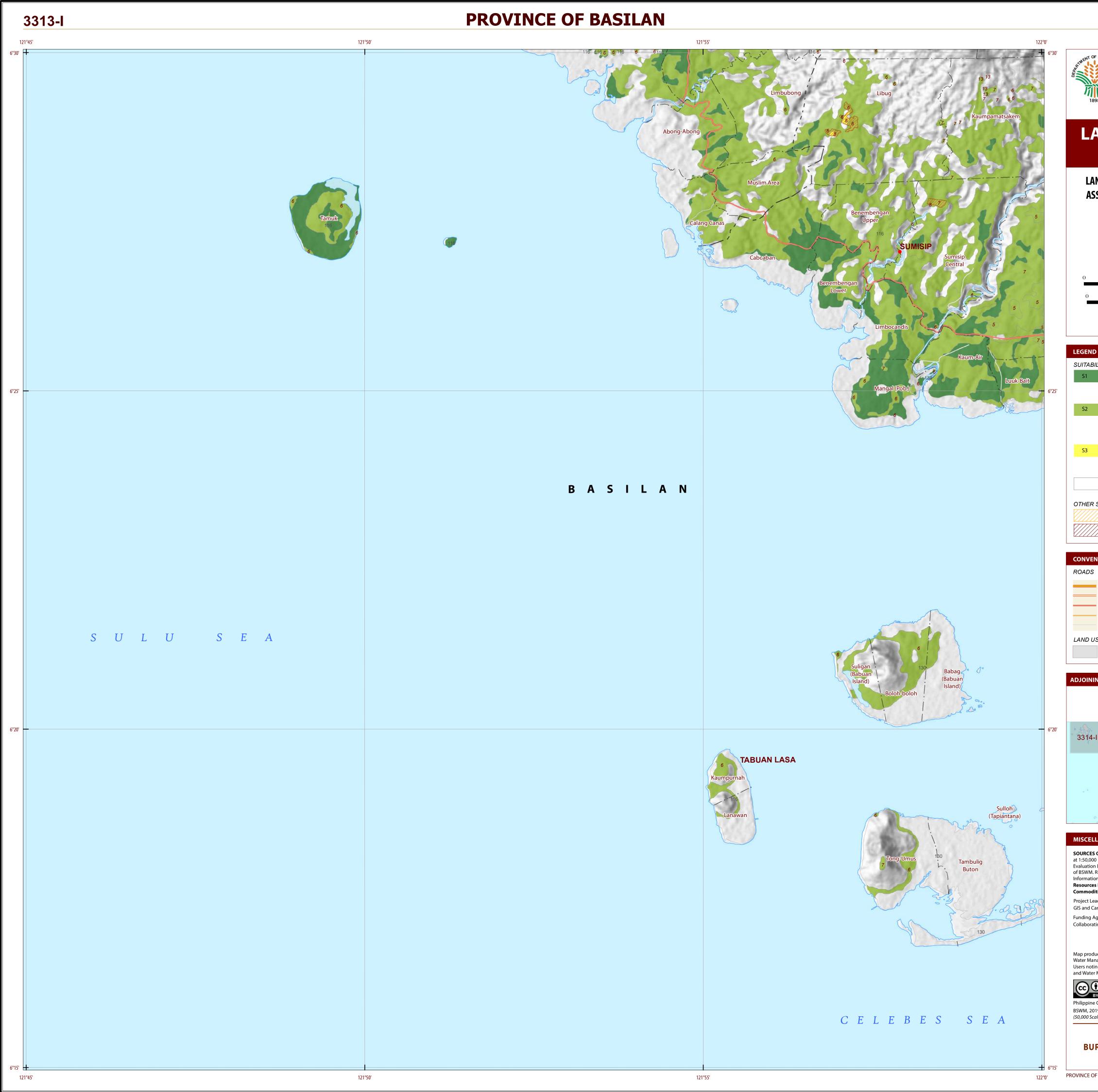
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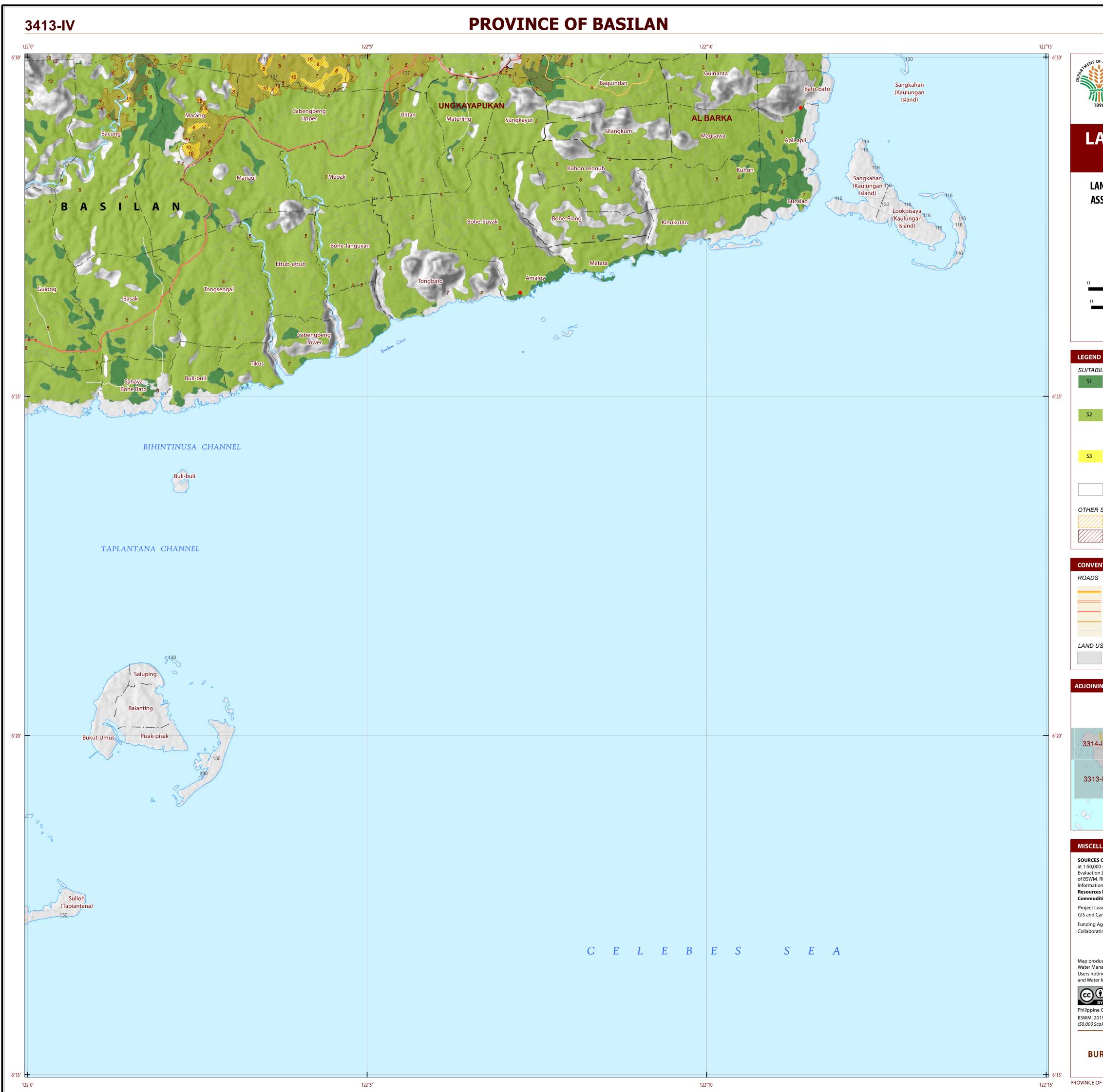
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