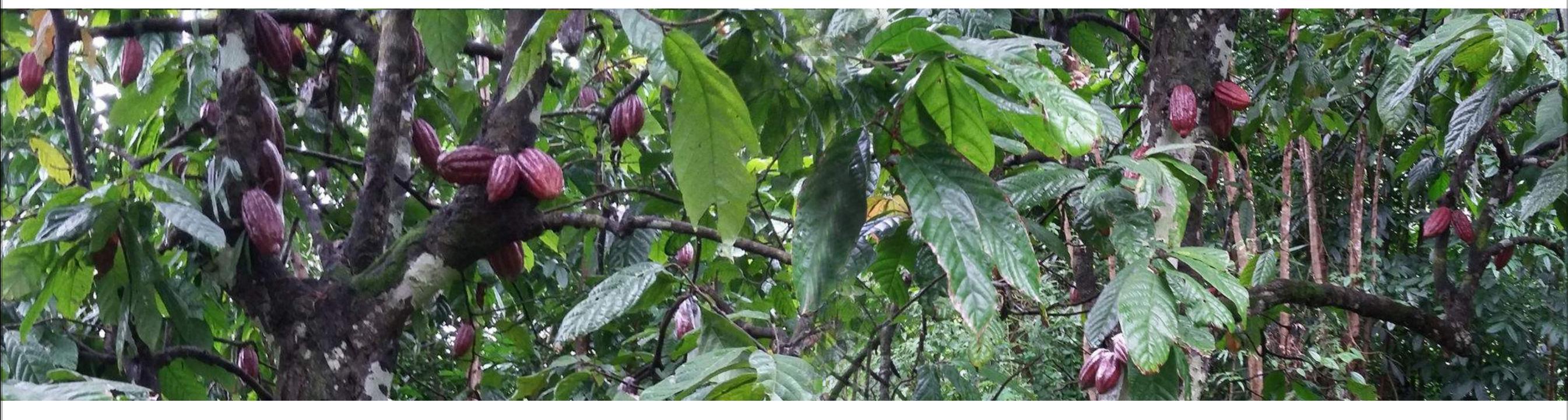


LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**





LAND SUITABILITY MAP

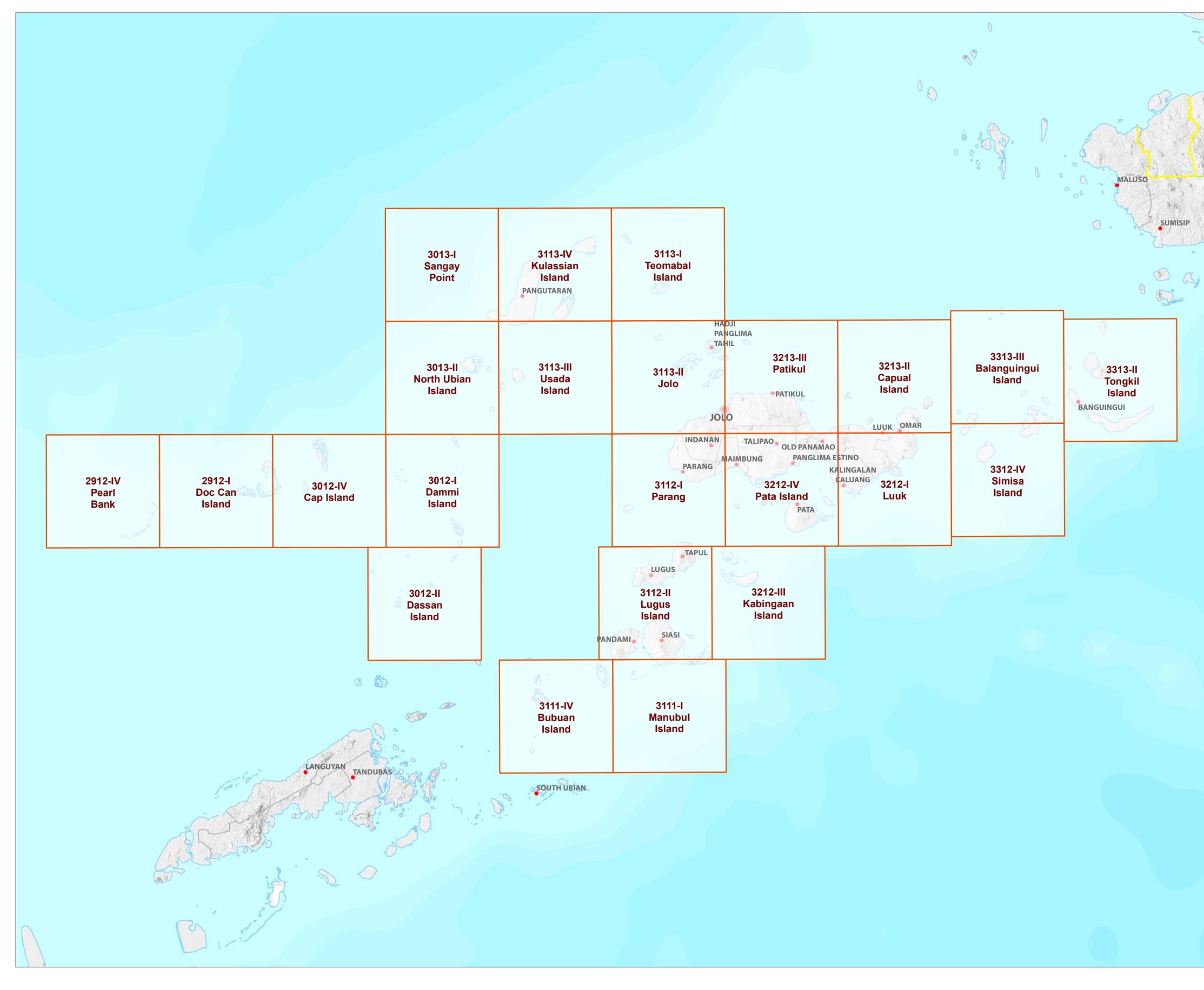
CACAO

PROVINCE OF SULU



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 SULU



MAP INDEX

LEGEN	D
Places	
* •	Capital City City Capital Town Town
Adminis	strative Boundary
	 Regional Provincial City Municipal
Map Inc	lex
	Index grid
Topogra Bathym	
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LAND SUITABILITY MAP FOR CACAO

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

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

						ЕХ	XPANSION	AREA (Ha	ı)			CONF	LICT RES	OLUTION	l (Ha)		TOTAL
MUNICIPALITY	EXISTI	NG CACA	0 (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrubl unmana	-	Grassla unmana		Сот	'n	Paddy non-iri		Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (IIa)
HADJI PANGLIMA TAHIL	-	-	-	-	-	-	- -	-	64	_	_	-	-	-	-	-	64
INDANAN	-	-	-	-	6,447	_	6	_	860	-	146	-	-	-	-	-	7,459
JOLO	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	11
KALINGALAN CALUANG	-	-	-	-	3,565	-	-	-	1,846	-	-	-	-	-	-	-	5,411
LUGUS	-	-	-	-	1,666	-	-	-	1,112	-	-	-	-	-	-	-	2,779
LUUK	-	-	-	-	3,444	-	- -	-	3,483	_	_	-	-	-	_	-	6,928
MAIMBUNG	-	-	-	-	2,863	_	- -	_	287	_	912	-	_	-	_	-	4,062
OLD PANAMAO	-	-	-	-	3,720	-	31	-	1,422	-	533	-	-	-	-	-	5,706
OMAR	-	-	-	-	2,547	-	953	-	2,202	-	143	-	-	-	-	-	5,844
PANDAMI	-	-	-	-	1,964	-	-	-	410	-	-	-	-	-	-	-	2,374
PANGLIMA ESTINO	-	-	-	-	935	-	12	-	448	-	850	-	-	-	-	-	2,245
PANGUTARAN	-	-	-	-	9,085	-	- -	-	-	_	_	-	-	-	_	-	9,085
PARANG	-	-	-	-	5,704	-	-	-	43	-	367	-	-	-	-	-	6,114
РАТА	-	-	-	-	1,738	-	_	-	2,342	-	-	-	-	-	-	-	4,080
PATIKUL	-	-	-	-	7,494	-	121	-	2,380	-	498	-	-	-	-	-	10,493
SIASI	-	-	-	-	4,137	-	_	-	1,537	-	-	-	-	-	-	-	5,675
TALIPAO	-	-	-	-	8,905	-	54	5	1,521	-	4,409	-	-	-	-	-	14,892
TAPUL	-	-	-	-	980	-	_	-	838	-	-	-	-	-	-	-	1,818
TONGKIL	-	_	_	-	656	_	140	-	26	_	52	_	-	_	_	_	873
Total Area (Ha)	-	-	-	-	65,860	_	1,317	5	20,821	-	7,909	_	_		_	_	95,912

Note: Delivery of cacao planting materials must be started on the onset of rainy season.

*establishment of shade trees prior to planting of cacao.

ACDONIOMIC DEGLIDEMENT OF CACAO DODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTIO (pH)	N INHERENT FERTILITY	FLOODING CLASS		SION ASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
	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
Cacao	S2	8 - 30	50 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	mod	erate	common	1000-1500	1000-2000	I, II
	S3	>30	<50	S, LS, CSL, SL	VPD,ED	<5.0 - > 7	9 low	severe	sev	vere	many	>1500	<1000 >4500	
SLOPE (%)			SOIL DRAINA	GE		SOIL REACT	ON (pH)		SOIL TE	EXTURE				
)-3 - leve	el to gently sloping	g	ED - ex	cessively drained		< 4.5 - 6	xtremely acid		Coarse			Fi	ine	
	ntly sloping to und	-		ell drained			ery strongly acid		S	- sand	l	SC	C - sandy	clay
	dulating to rolling		MWD - m	oderately well drained			trongly acid		LS	- loan	ny sand	Si	-	-
18 - 30 - roll	ling to moderately	' steep	SPD - so	mewhat poorly drained	1	5.6 - 6.0 - 1	nedium acid		CSL	- coar	se sandy loam	С	- clay	-
30 - 50 - stee	ер		PD - po	oorly drained		6.1 - 6.5 - 9	lightly acid		SL	- sand	ly loam	He	C - heavy	⁷ clay
• 50 - ver	ry steep		VPD - ve	ery poorly drained		6.6 - 7.2 - ı	eutral		Mediur	n				
						7.3 - 7.8 - r	nildly alkaline		FSL	- fine	sandy loam			
SOIL DEPTH (c	cm)		SURFACE IMP	PEDIMENT		7.9 - 8.4 - r	noderately alkaline		L	- loan	1			
- 30 - ver	ry shallow		ROCK OUTCRC	PS		> 8.5 - 9	trongly alkaline		SiL	- silt l	oam			
0 - 50 - sha	allow		< 10% - no	one - few					CL	- clay	loam			
50 - 100 - mo	derately deep		10 - 30% - co	ommon					SiCL	- silty	clay loam			
											2			
100 - dee	ep to very deep		> 30% - m	any					SCL	- sand	ly clay loam			
LAND LIN ELEVATION El2 - 1000m -	MITATION - 1500m	S DESCRI	PTION ANI SOIL DRAINA D2 - Some	D COMBINAT AGE what poorly drained to	poorly drained		SOIL DEPTH Sh2 - Moderately of Sh3 - Very shallow		1)	S F	ly clay loam S OIL EROSION 22 - Moderate (
LAND LIN E LEVATION El2 - 1000m -	MITATION - 1500m	S DESCRI	PTION ANI SOIL DRAINA D2 - Some	D COMBINAT	poorly drained				1)	S F	ly clay loam			
LAND LIN ELEVATION El2 - 1000m - El3 - > 1500m SLOPE/TOPOG	MITATION - 1500m n GRAPHY		PTION ANI SOIL DRAIN D2 - Some D3 - Very SOIL TEXTU	D COMBINAT AGE what poorly drained to poorly drained or exces RE	poorly drained		Sh2 - Moderately ofSh3 - Very shallowROCK OUTCROPS		1)	S E E	ly clay loam SOIL EROSION 22 - Moderate (23 - Severe ero FLOODING	osion		
LAND LIN ELEVATION El2 - 1000m - El3 - > 1500m SLOPE/TOPOG T2 - Undulat	MITATION - 1500m n GRAPHY ting to moderately		PTION ANI SOIL DRAIN D2 - Some D3 - Very	D COMBINAT AGE what poorly drained to poorly drained or exces RE	poorly drained		Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam SOIL EROSION 22 - Moderate (23 - Severe ero FLOODING 22 - Moderate (osion seasonal flooding		
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LAND LIN ELEVATION E12 - 1000m - E13 - > 1500m E13 - > 1500m SLOPE/TOPOG CODE CODE LIN 1 E12-Sh2 2 F2-Tc	MITATION - 1500m n GRAPHY ing to moderately very steep MITATION 2-Rc2	steep CODE LIN 11 T3-E3-S 12 T3-E12-	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2	D COMBINAT AGE what poorly drained to poorly drained or exces RE se texture $\begin{tabular}{c} \hline \hline CODE \\ \hline 2 \\ \hline 2 \\ \hline Paddy \\ \hline 4 \\ \hline Corn \\ \hline \end{tabular}$	poorly drained sively drained LANDUSE		Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam SOIL EROSION 22 - Moderate (23 - Severe ero FLOODING 22 - Moderate (osion seasonal flooding		
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5:



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.

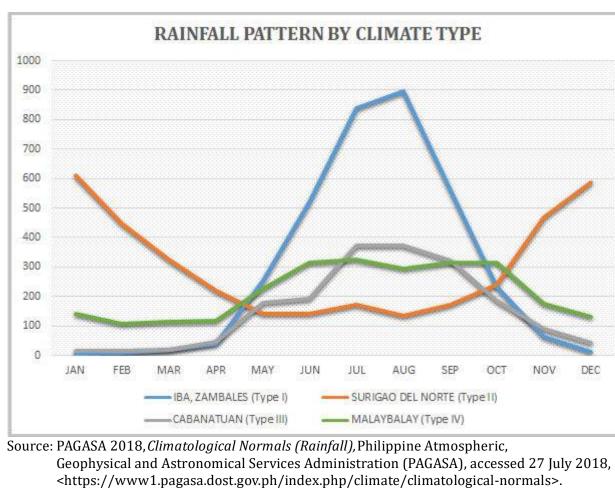
Moderately Suitable (S2)

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.

Province of Sulu is classified as climate type IV



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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.

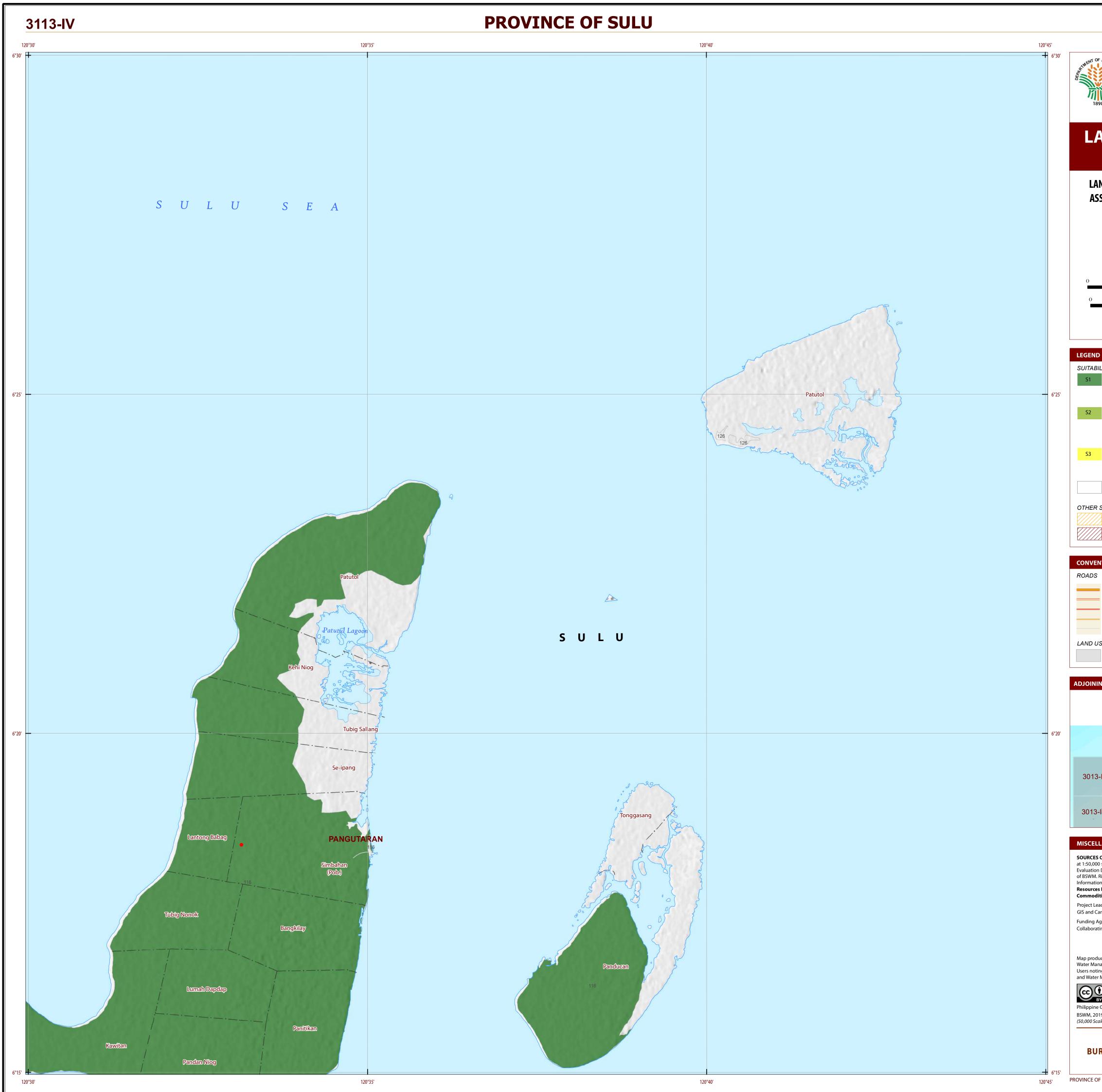
Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater 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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NTIONA	L SIGNS			
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Expre Expre Trunk Prima Secon Tertia	BO ssway line ry idary ry	Region Province District Municipa		Sea / Shoreline Lakes / Rivers ES Capital City / City
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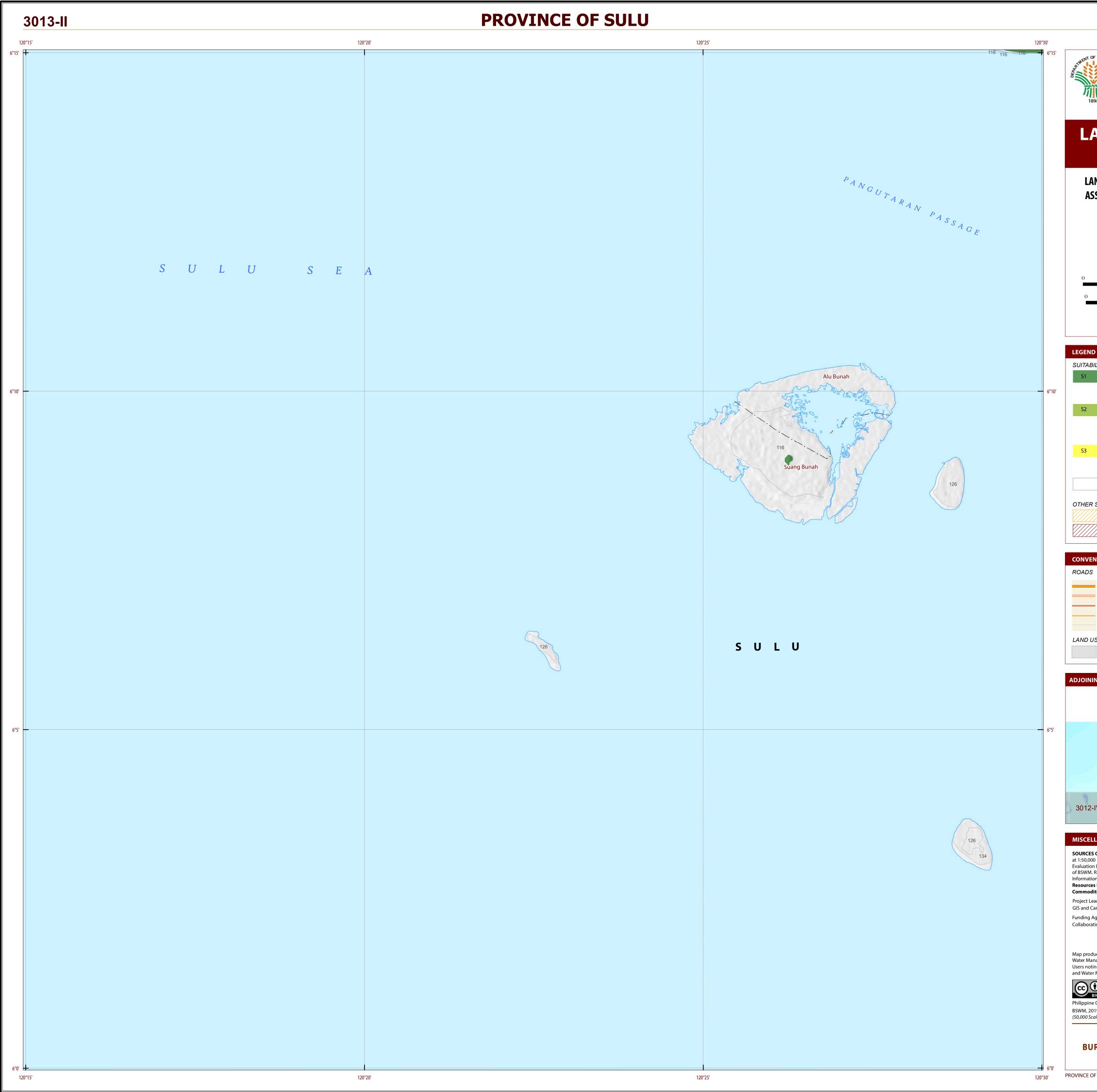


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AND S	SUITABILITY MAP CACAO
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	R : All political boundaries are not authoritative.
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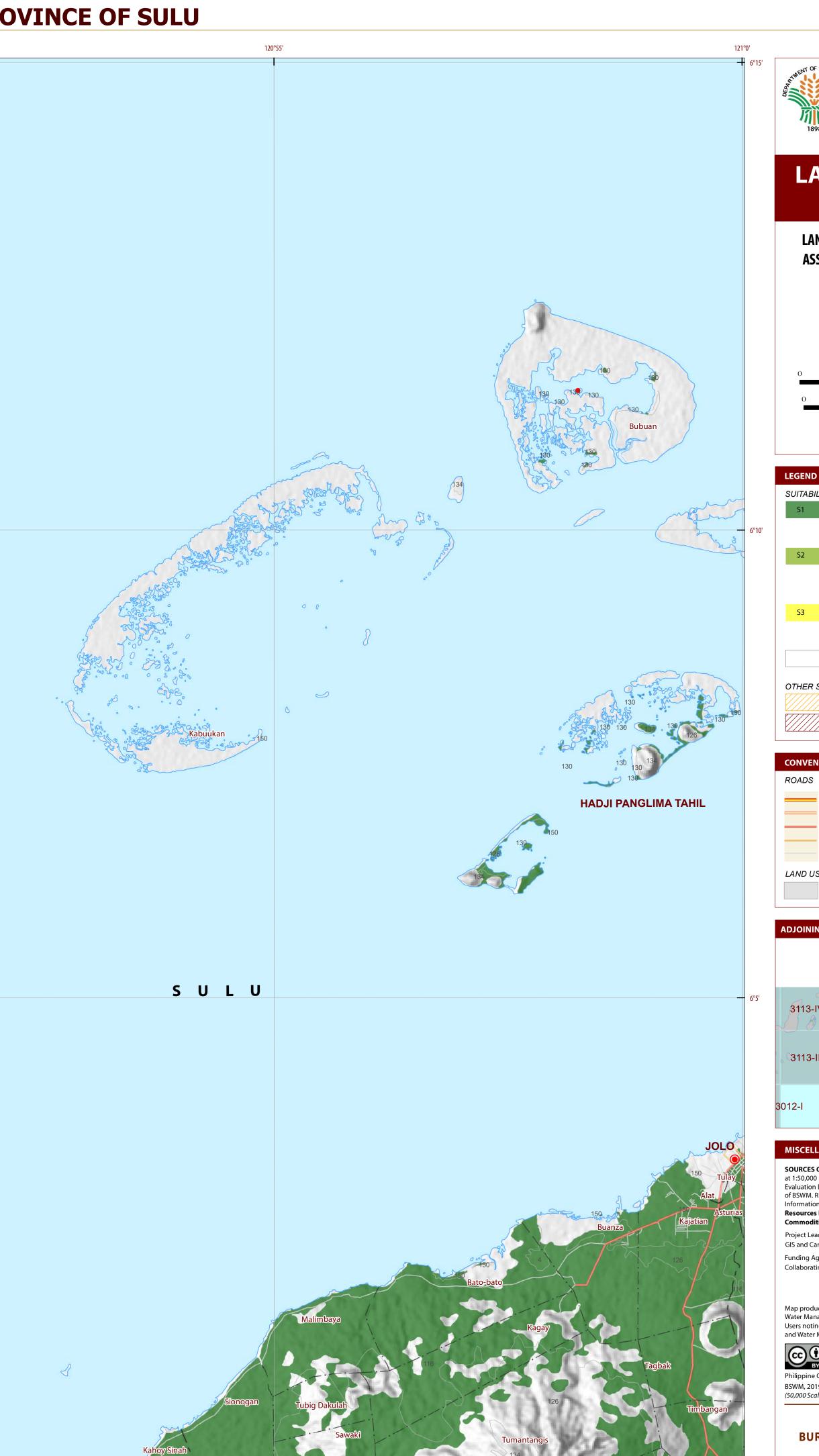
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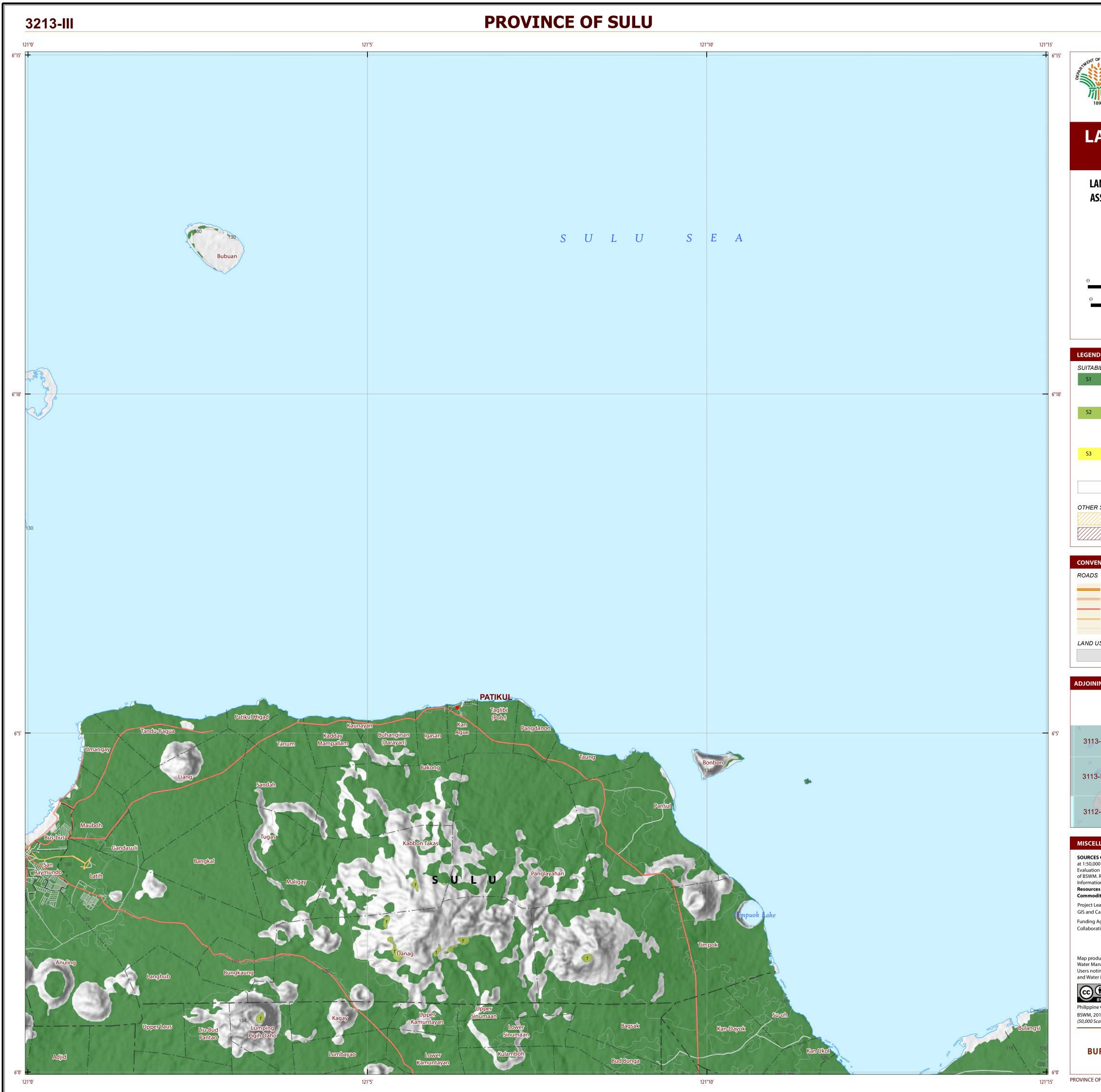


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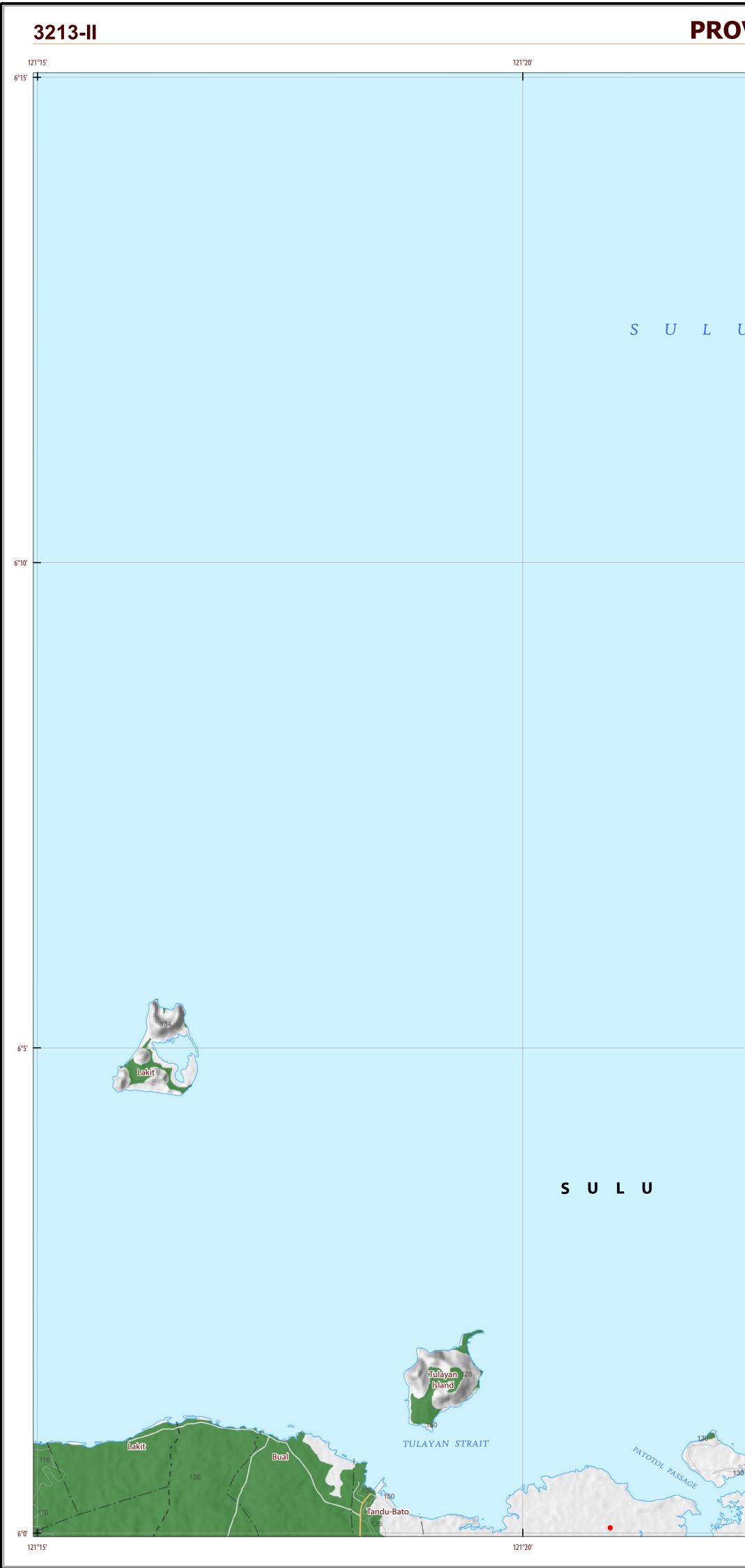
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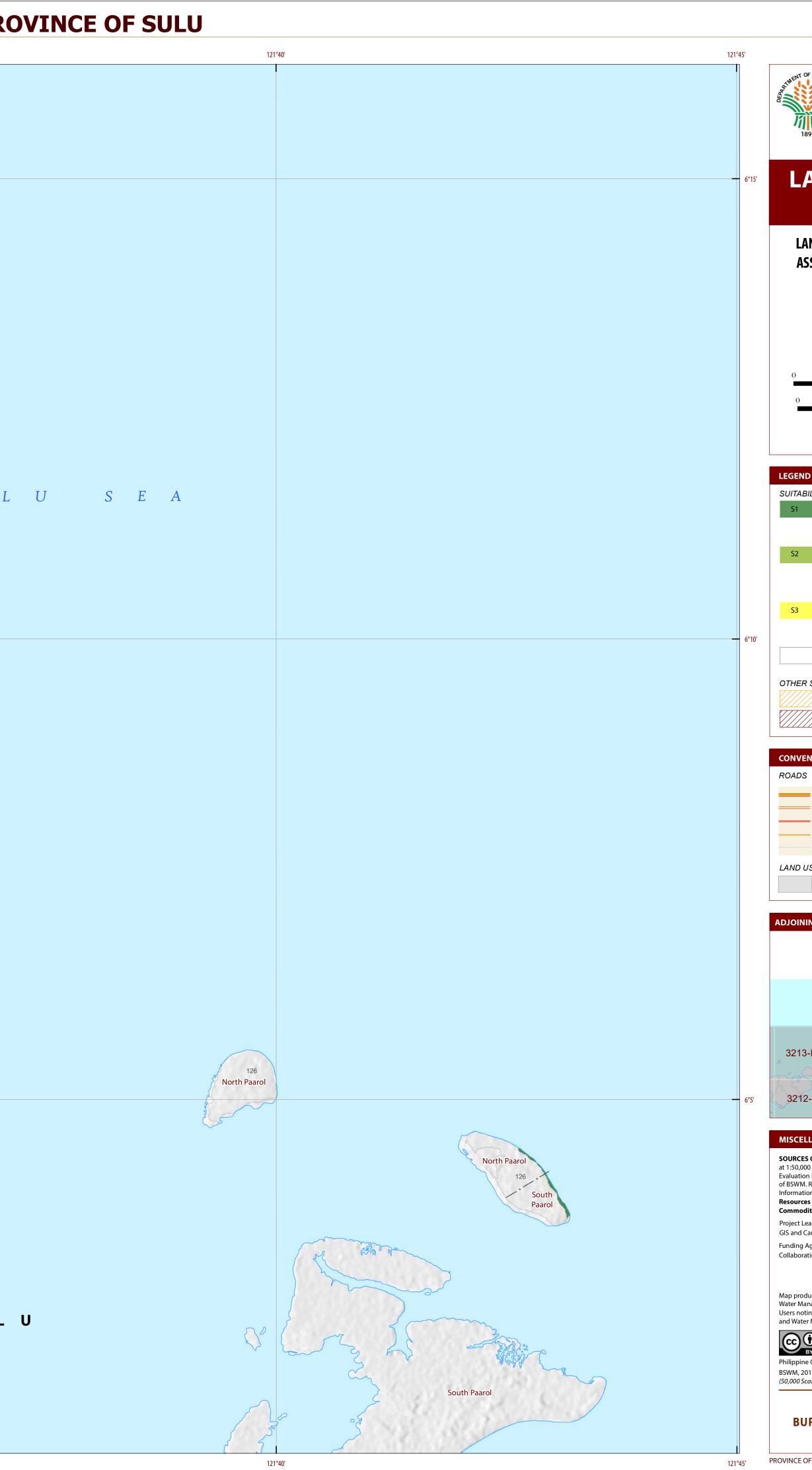
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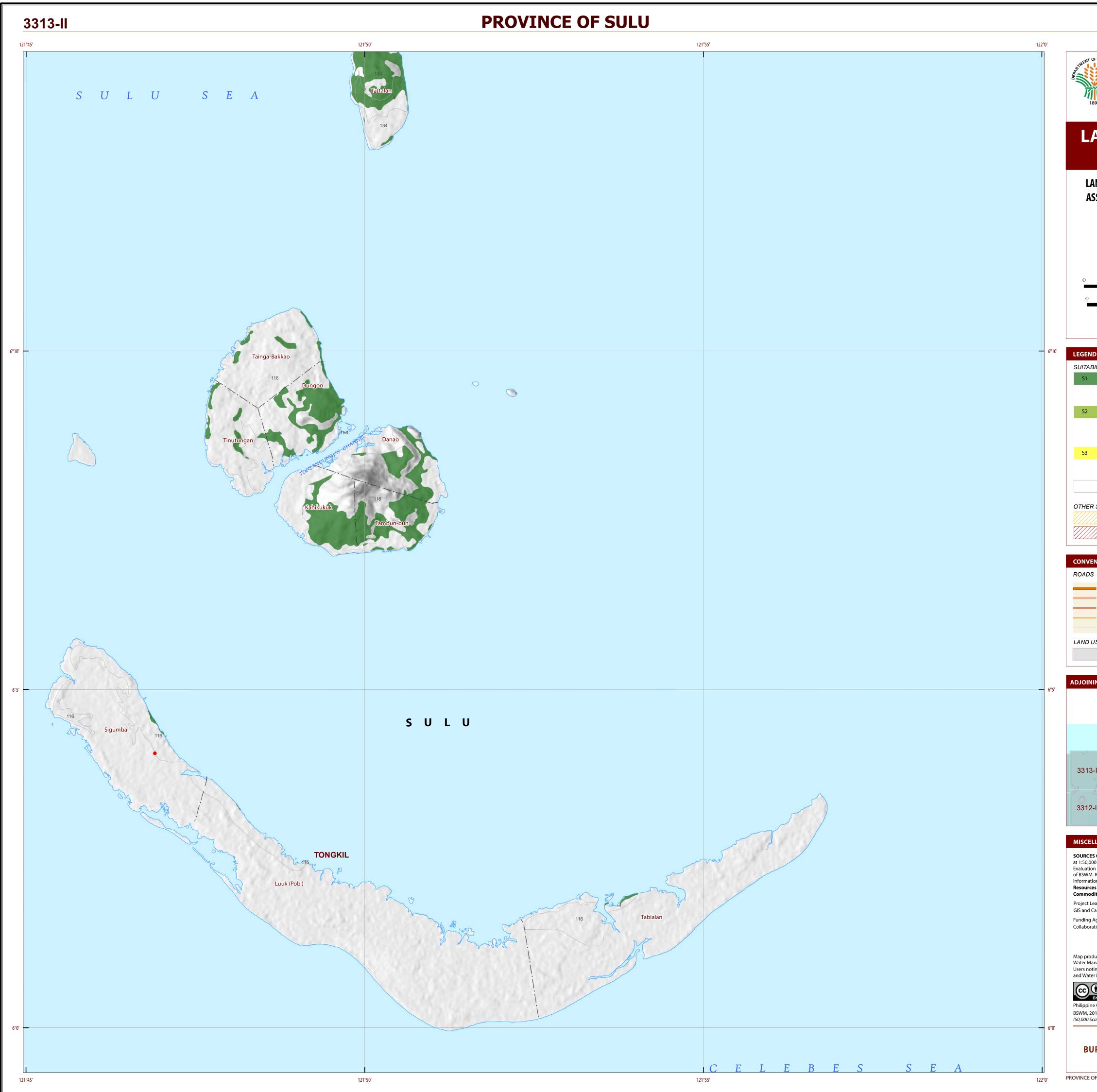
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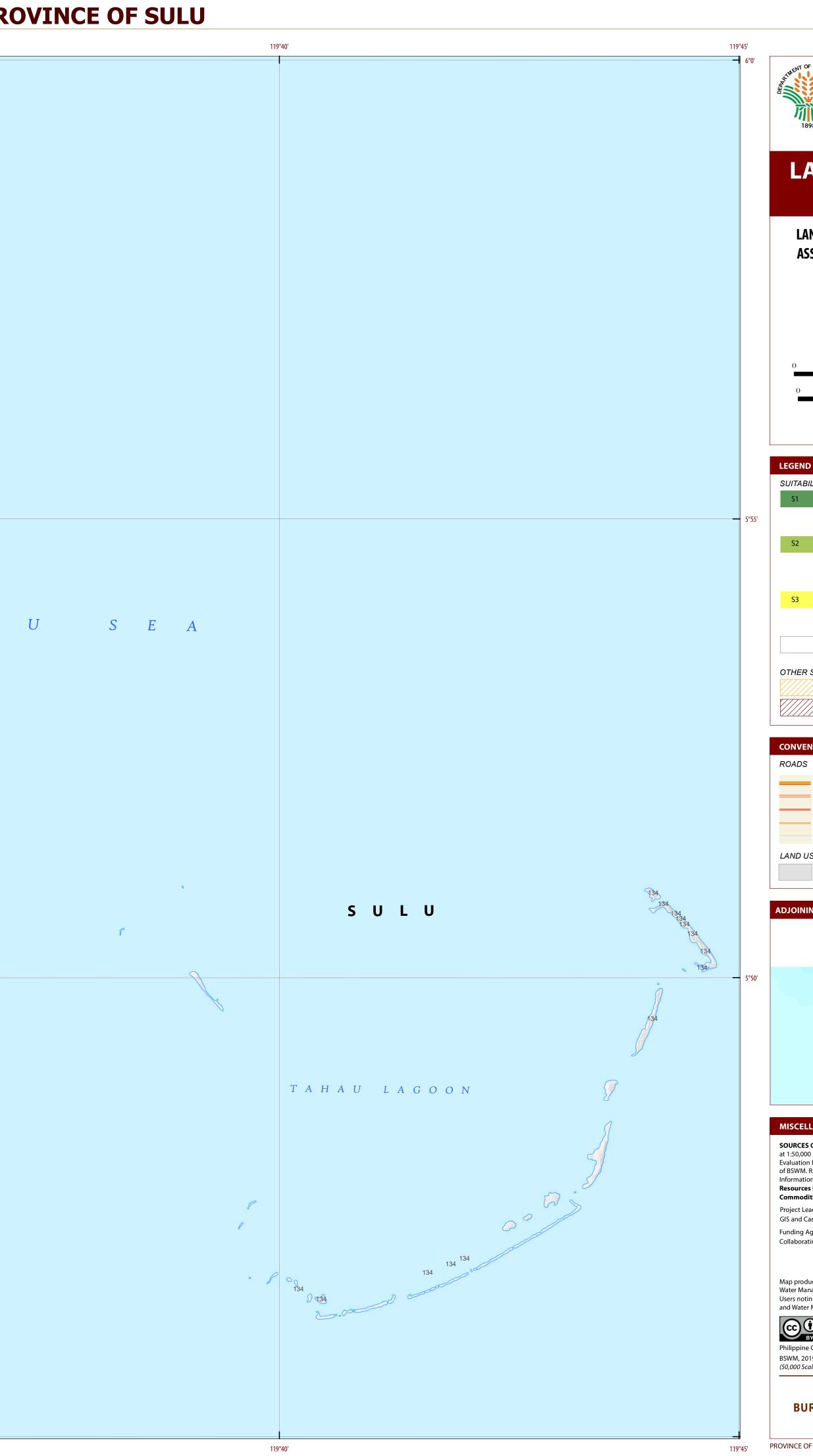


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Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga) E Local Government Unit (LGU) of covered provinces and municipalities duced by the Geomatics and Soil Information Technology Division, Bureau of Soils and inagement (BSWM). ing errors or omissions in this publication are requested to inform the Bureau of Soils
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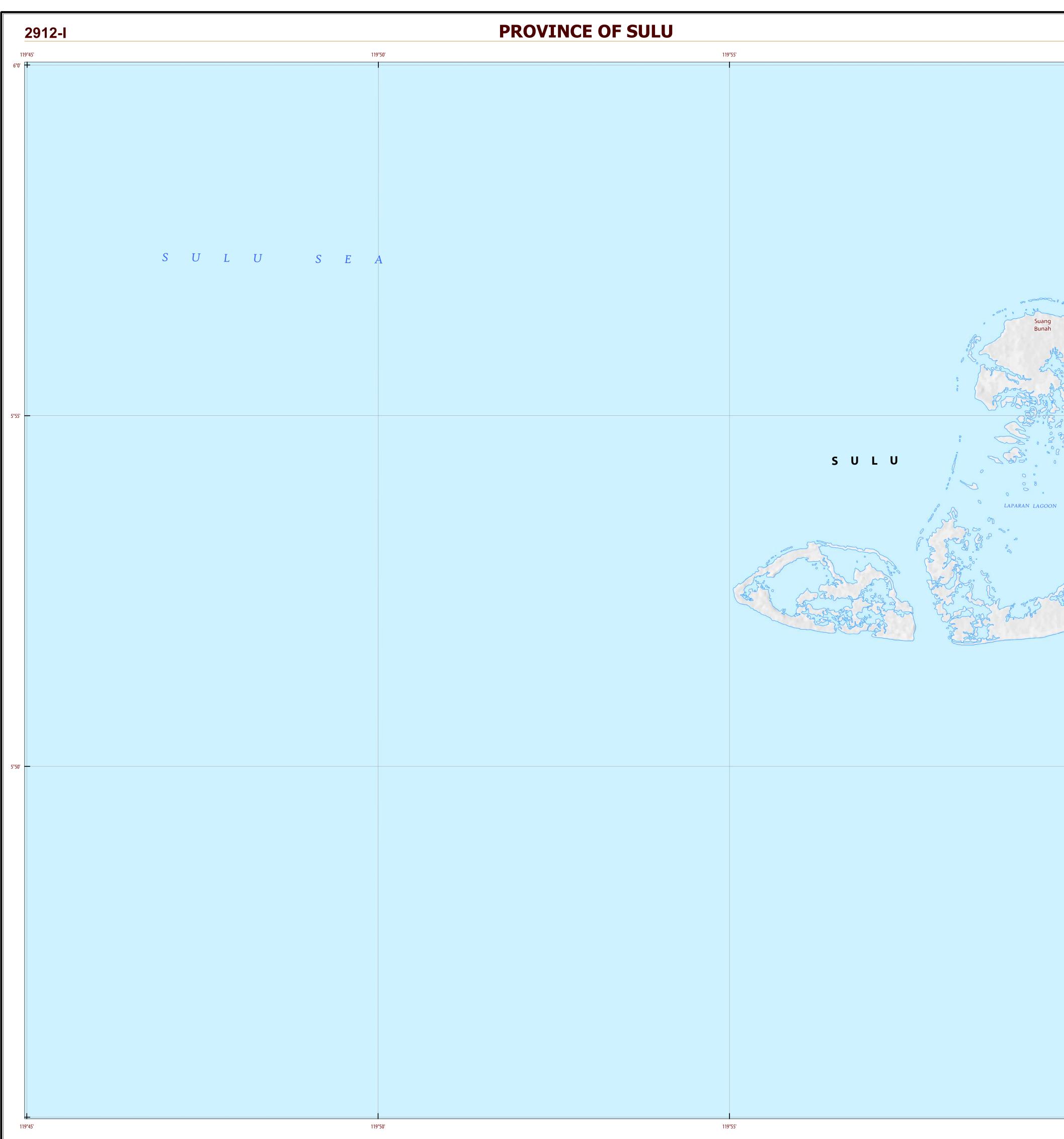


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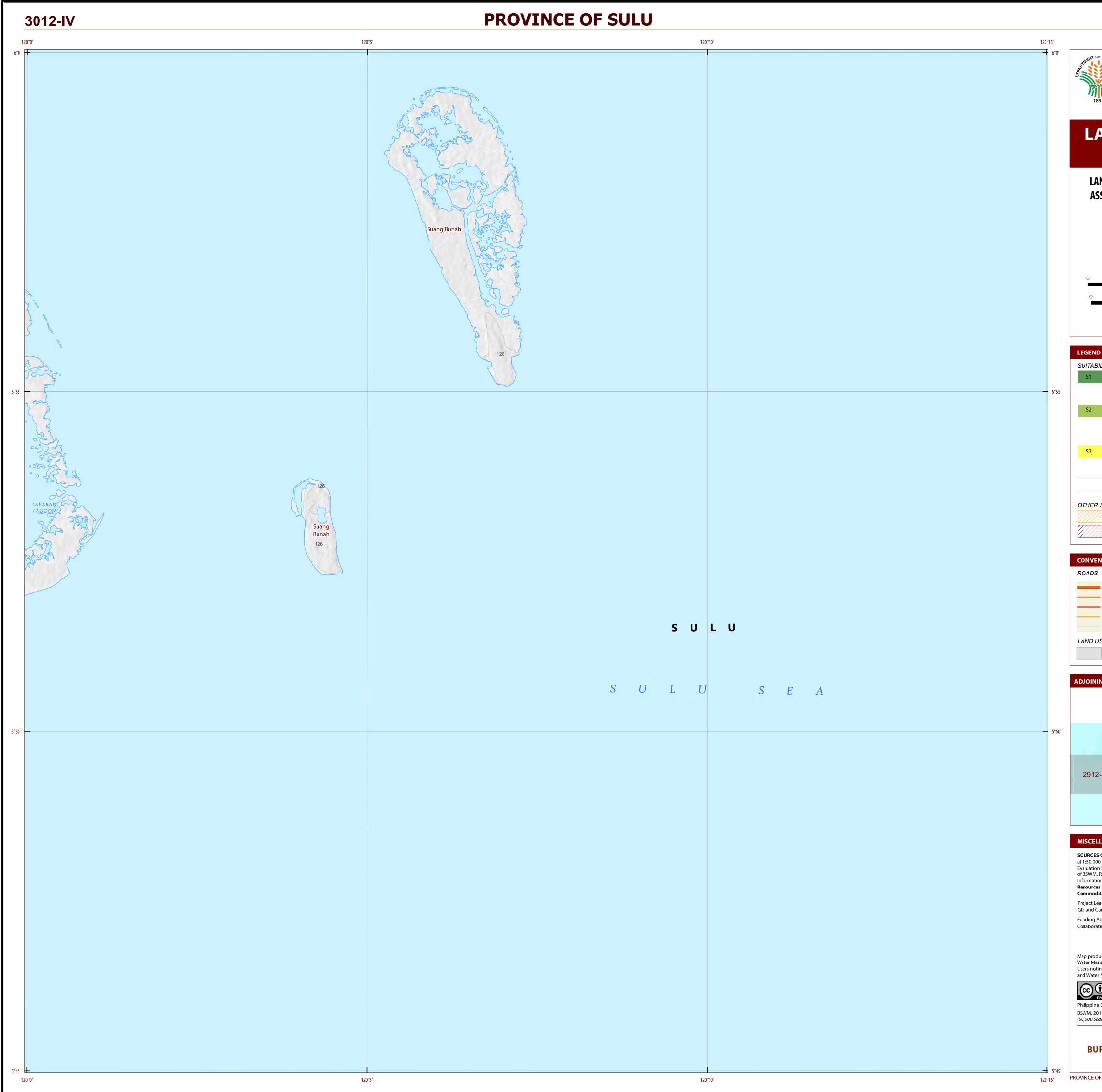
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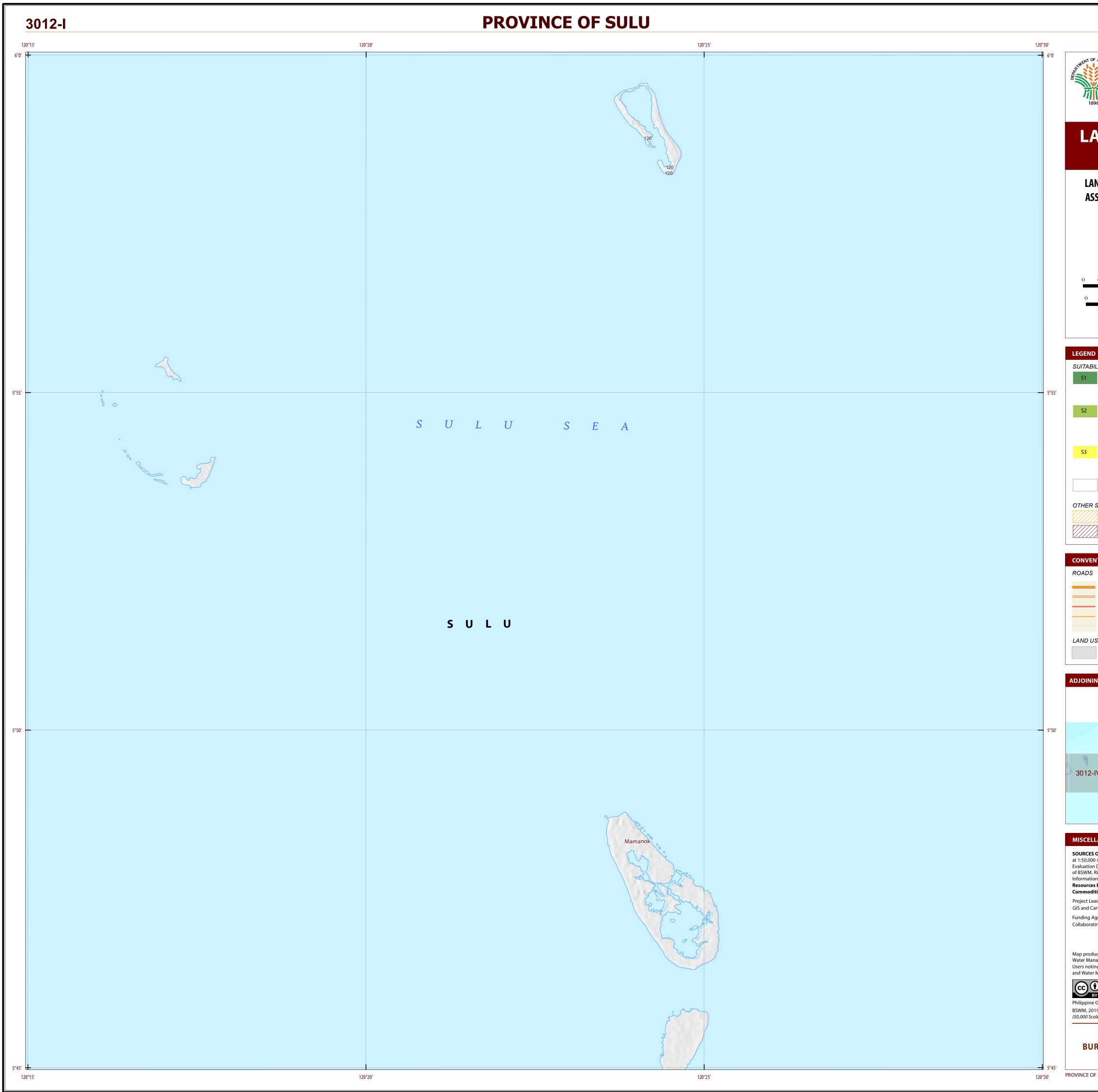
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	GIS and Cartography : IRVIN K. SAMALCA Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR) Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF) : Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga) : Local Government Unit (LGU) of covered provinces and municipalities Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and
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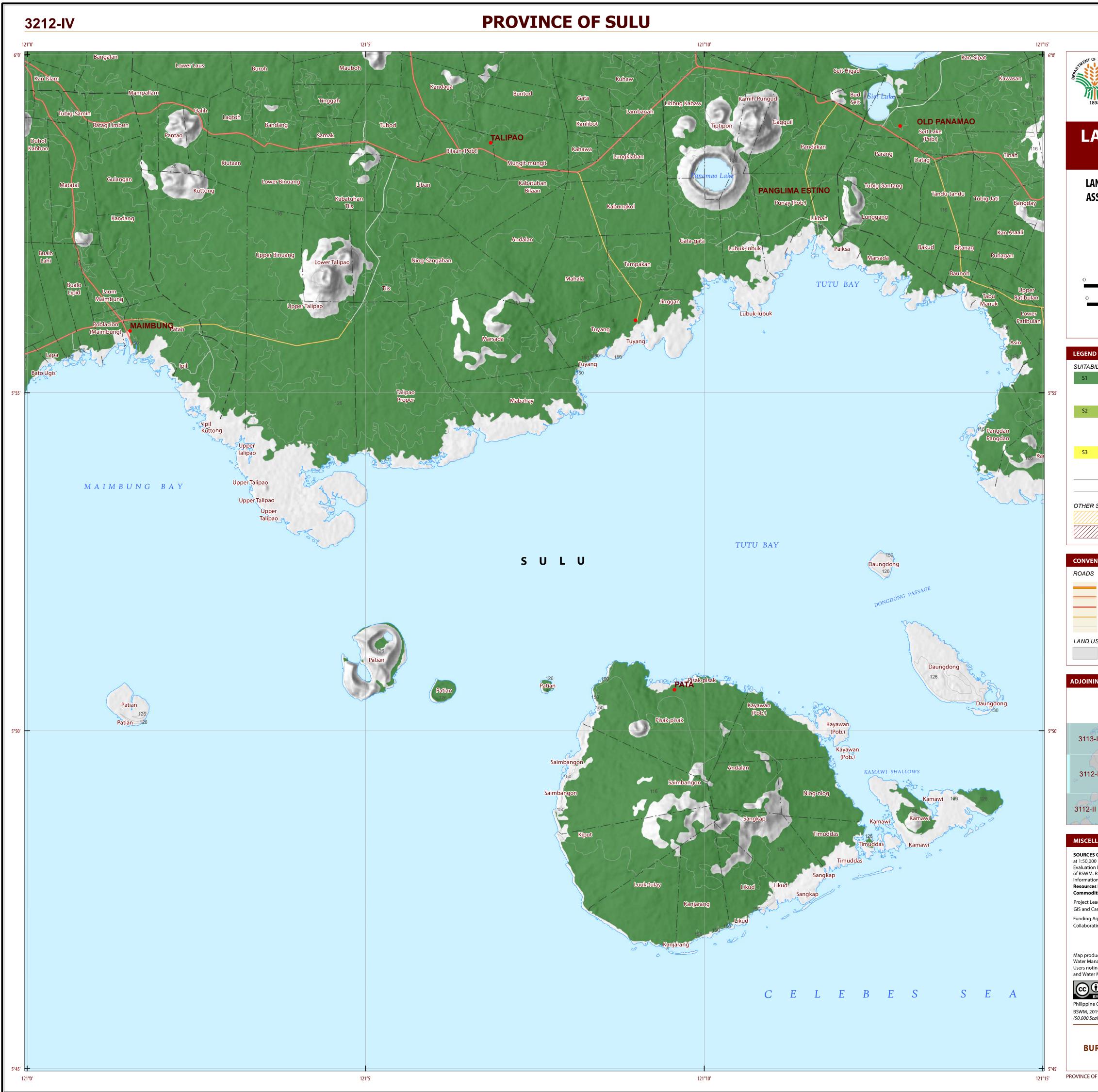
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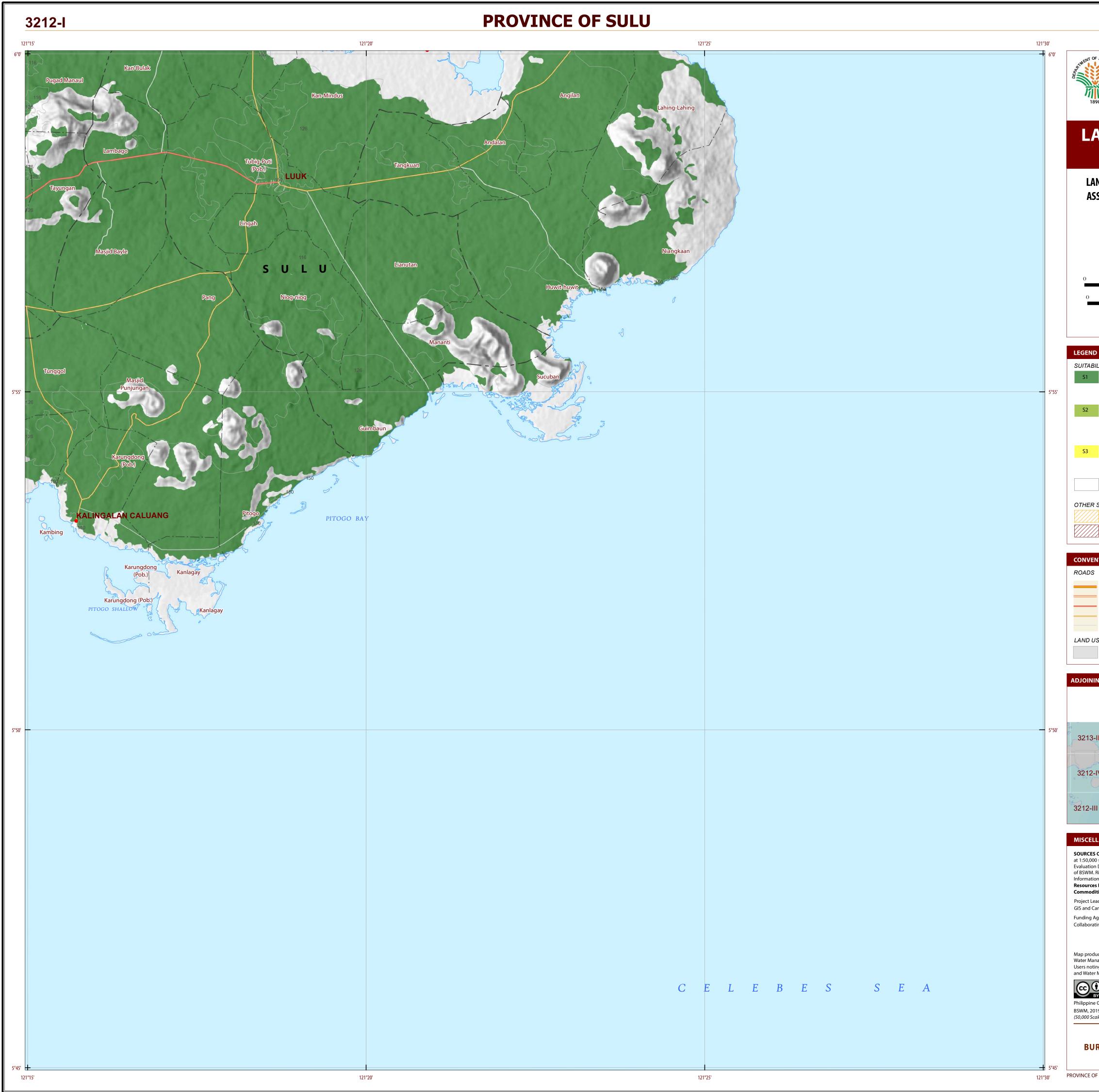
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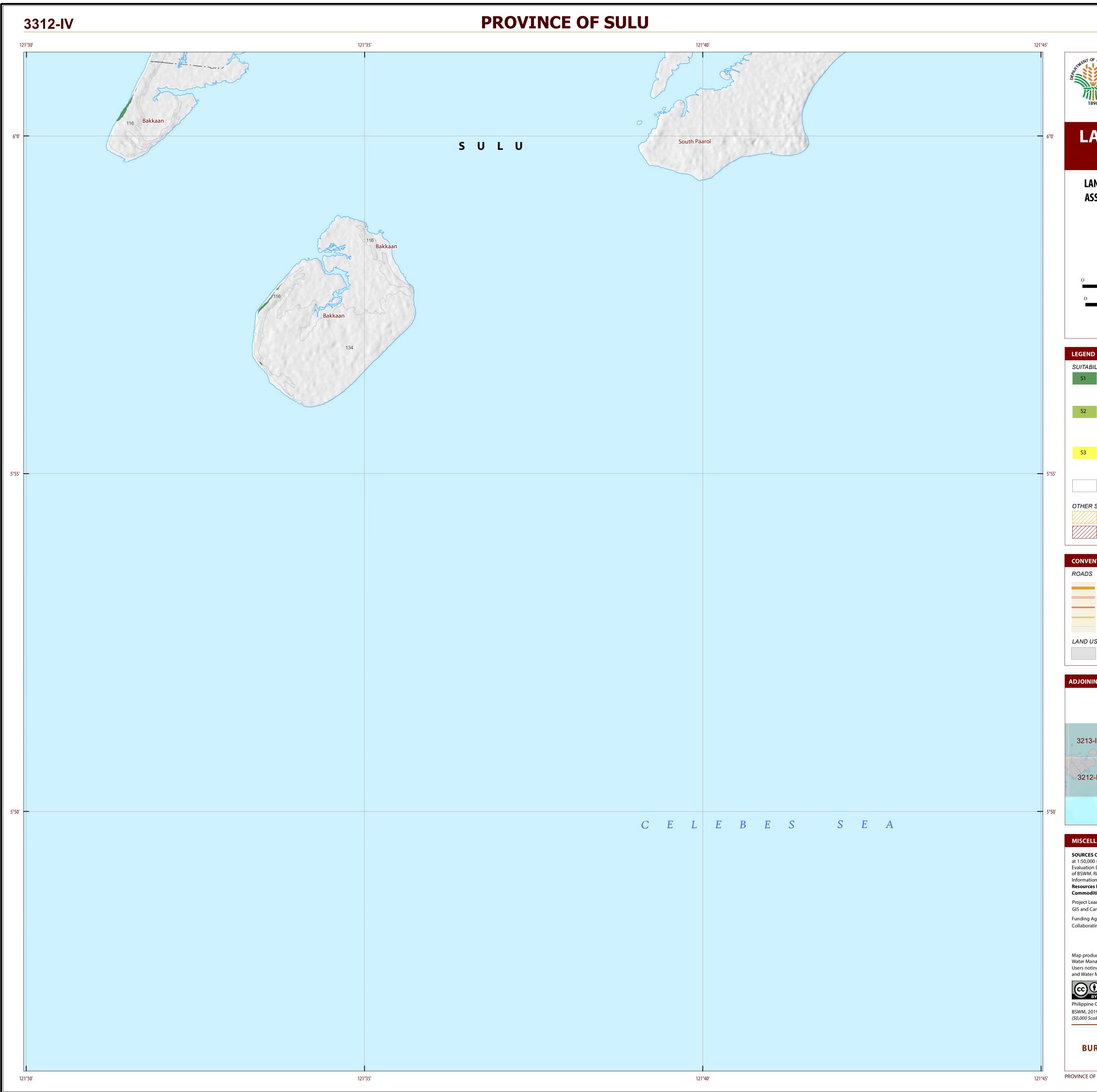
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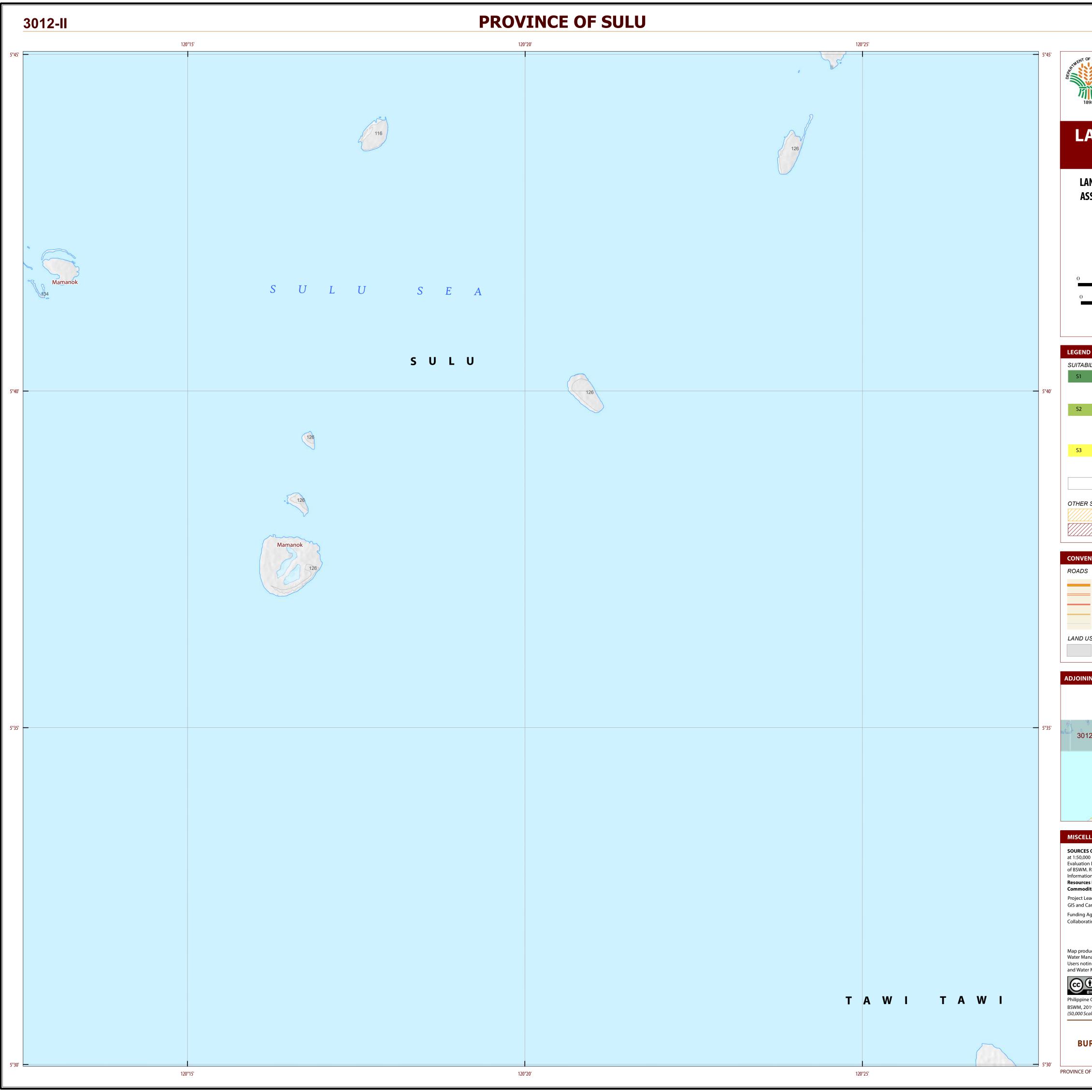
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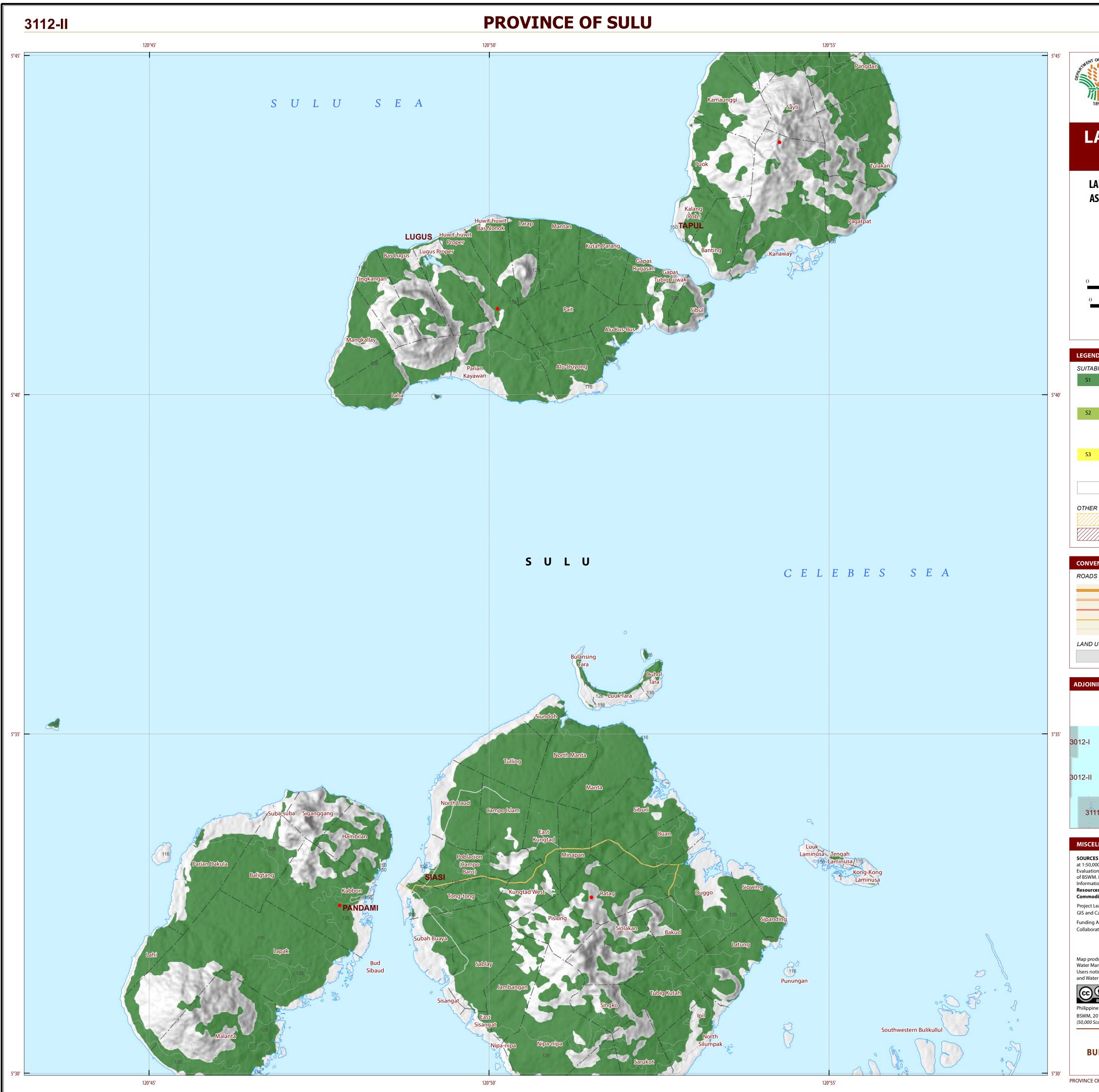
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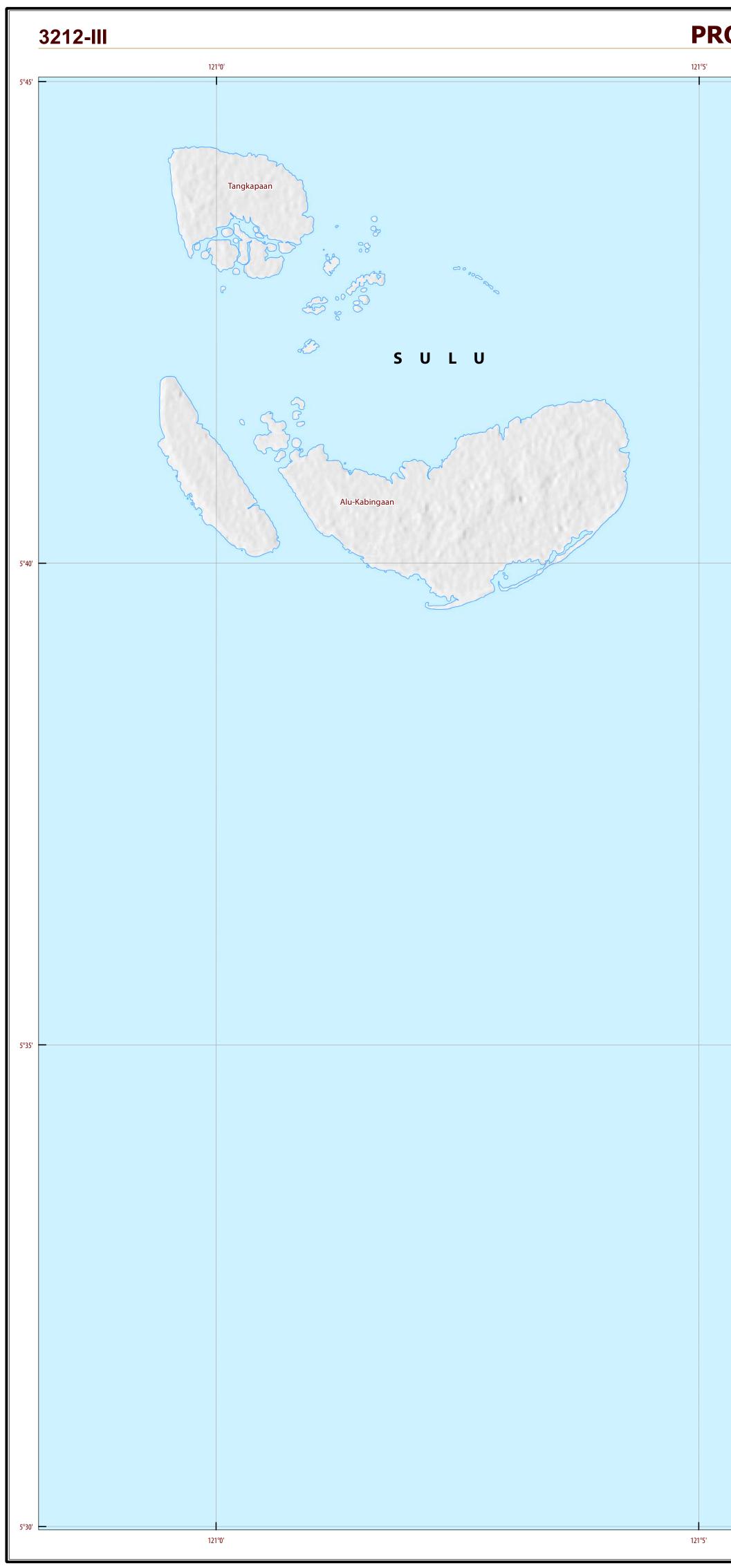
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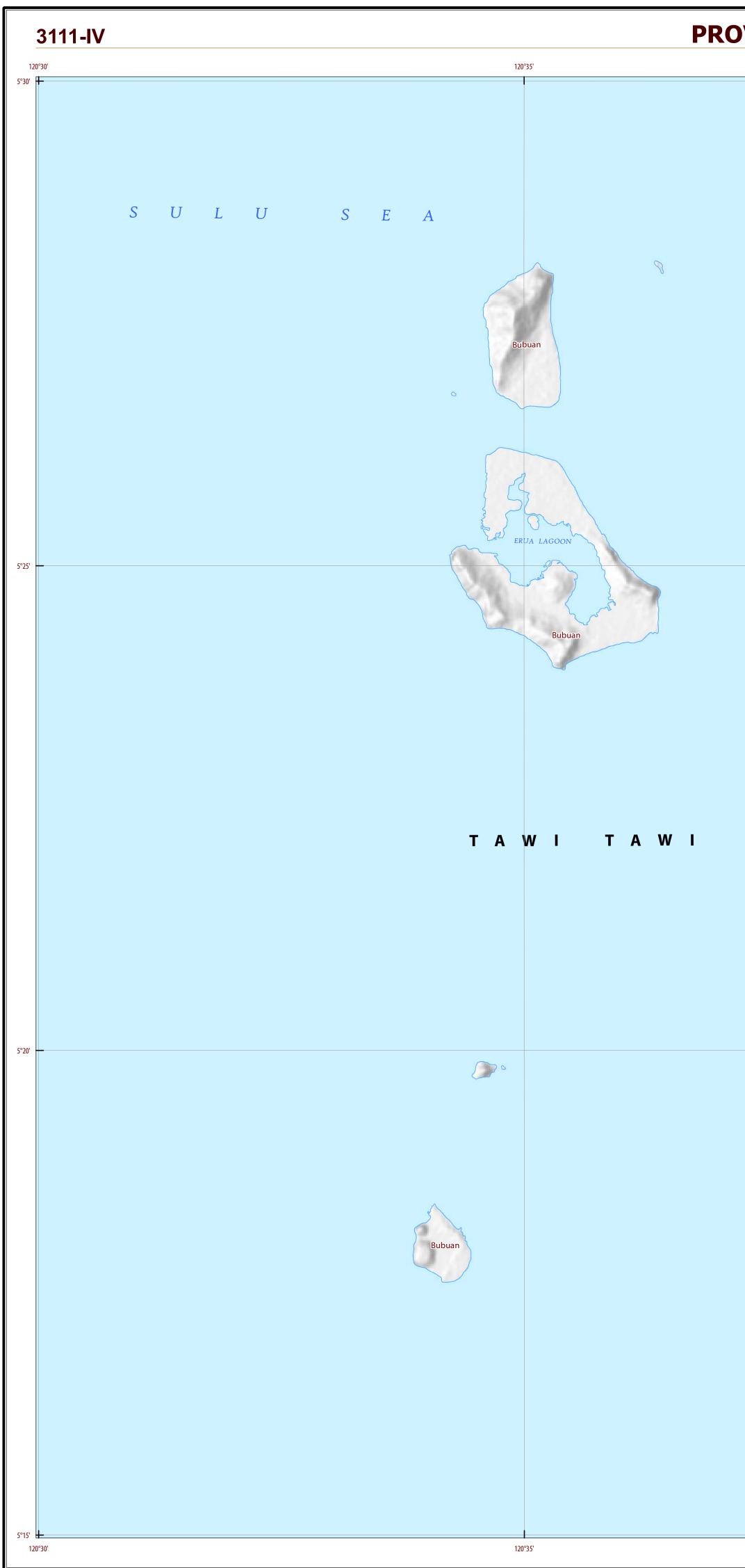
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ing errors or omissions in this publication are requested to inform the Bureau of Soils r Management. This publication is licensed under a Creative Commons Attribution 4.0 International License. Unless otherwise noted, copyright and any other intellectual property rights, in this publication is owned by the e Government. This publication should be attributed as : 019. Land Suitability Map Series for Cacao of the PROVINCE OF SULU cale). CC BY NC SA 4.0.				
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REAU 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				
DF SULU		Sheet 2.	3 of 23 Sheet No	o. 3111-l