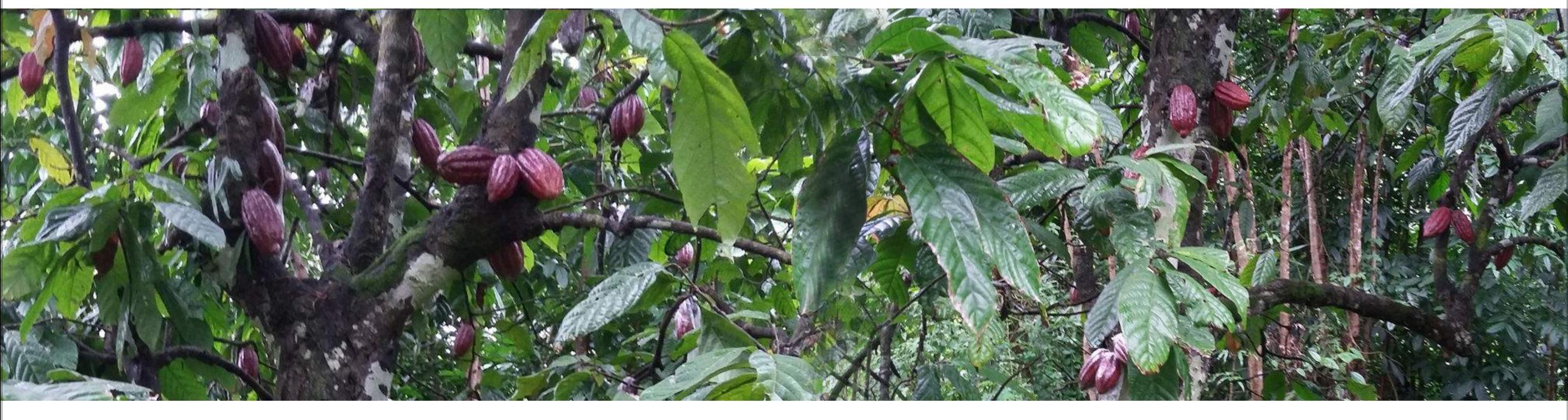


## LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**





# LAND SUITABILITY MAP

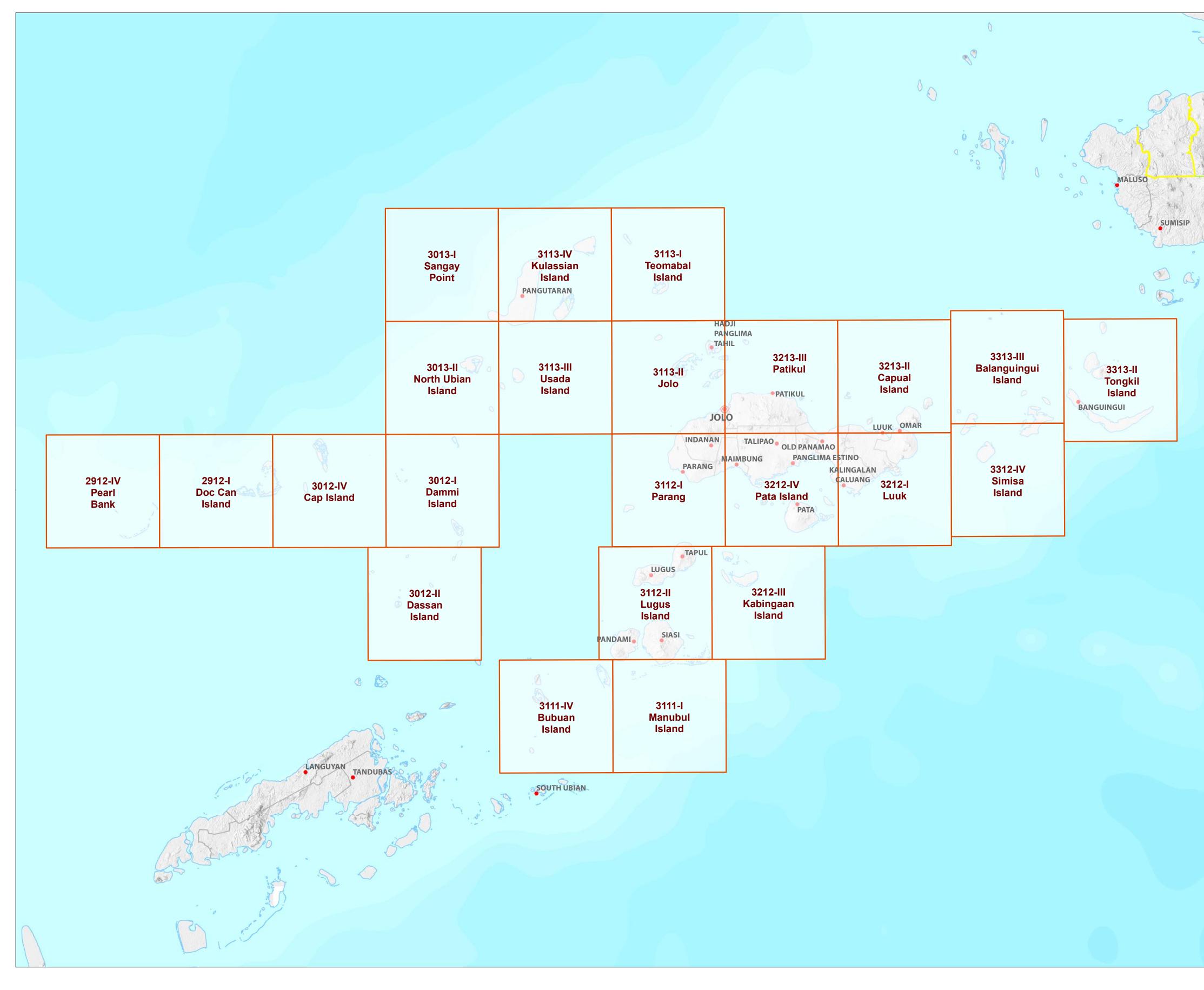
## CACAO

# **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
	<ul> <li>Regional</li> <li>Provincial</li> <li>City</li> <li>Municipal</li> </ul>
Map Inc	lex
	Index grid
Topogra Bathym	
LOCAT	ΙΟΝ ΜΑΡ



## 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	<b>XPANSION</b>	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)
	<b>S1</b>	<b>S2</b>	<b>S</b> 3		<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	AREA (IIa)
HADJI PANGLIMA TAHIL	-	-	-	-	-	-	- <b>-</b>	-	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	-	- <b>-</b>	-	3,483	_	_	-	-	-	_	-	6,928
MAIMBUNG	-	-	-	-	2,863	_	- <b>-</b>	_	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	-	- <b>-</b>	-	-	_	_	-	-	-	_	-	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	<sup>7</sup> 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 -	<b>MITATION</b> - 1500m	S DESCRI	<b>PTION ANI</b> SOIL DRAINA D2 - Some	D COMBINAT AGE what poorly drained to	poorly drained		<b>SOIL DEPTH</b> Sh2 - Moderately of Sh3 - Very shallow		1)	S F	ly clay loam S <b>OIL EROSION</b> 22 - Moderate (			
<b>LAND LIN</b> E <b>LEVATION</b> El2 - 1000m -	<b>MITATION</b> - 1500m	S DESCRI	<b>PTION ANI</b> SOIL DRAINA D2 - Some	D COMBINAT	poorly drained				1)	S F	ly clay loam			
<b>LAND LIN</b> 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		<ul><li>Sh2 - Moderately of</li><li>Sh3 - Very shallow</li><li>ROCK OUTCROPS</li></ul>		1)	S E E	ly clay loam SOIL EROSION 22 - Moderate ( 23 - Severe ero FLOODING	osion		
<b>LAND LIN</b> <b>ELEVATION</b> El2 - 1000m - El3 - > 1500m <b>SLOPE/TOPOG</b> T2 - Undulat	MITATION - 1500m n GRAPHY ting to moderately		<b>PTION ANI</b> <b>SOIL DRAIN</b> 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 <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
<b>LAND LIN</b> <b>ELEVATION</b> El2 - 1000m - El3 - > 1500m <b>ELOPE/TOPOG</b> T2 - Undulat	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		<ul><li>Sh2 - Moderately of</li><li>Sh3 - Very shallow</li><li>ROCK OUTCROPS</li></ul>		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion		
LAND LIN ELEVATION El2 - 1000m - El3 - > 1500m SLOPE/TOPOG F2 - Undulat F3 - Steep to CODE LIN	MITATION - 1500m n GRAPHY ing to moderately very steep MITATION	steep CODE LIN	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars	D COMBINAT AGE what poorly drained to poorly drained or exces RE se texture	poorly drained sively drained LANDUSE		Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LIN         ELEVATION         El2       - 1000m -         El2       - 1000m -         El3       - > 1500m         SLOPE/TOPOG       -         C2       - Undulation         C3       - Steep to         CODE       LIN         1       El2-Sh2	MITATION - 1500m n GRAPHY ing to moderately very steep MITATION	steep <b>CODE</b> LIN <u>11</u> T3-E3-S	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars	D COMBINAT AGE what poorly drained to poorly drained or exces RE se texture CODE 2 Paddy	poorly drained ssively drained		Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
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 <b>CODE</b> 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 <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LINELEVATIONEl2 $-1000m - 1000m - 10000m - 1000m - 1000m - 1000m - 1000m - 1000m - 1$	MITATION - 1500m n GRAPHY ing to moderately very steep MITATION 2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I	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 $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained <b>LANDUSE</b> rice, non-irriga		Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LINELEVATIONEl2 $-1000m$ -El2 $-1000m$ -El3 $->1500m$ SLOPE/TOPOG2 $-Undulation3-Steep toCODELIN1El2-Sh22F2-Tc3F3-D24T2$	MITATION - 1500m n GRAPHY ing to moderately very steep MITATION 2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I         14       T3	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 excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained <b>LANDUSE</b> rice, non-irriga	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LIN         ELEVATION         El2       - 1000m -         El2       - 1000m -         El3       - > 1500m         GLOPE/TOPOG       CODE         T2       - Undulation         T3       - Steep to         CODE       LIN         1       El2-Sh2         2       F2-Tc         3       F3-D2         4       T2         5       T2-E3	MITATION - 1500m n GRAPHY ting to moderately very steep MITATION 2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I         14       T3         15       T3-E3	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2 D2	D COMBINAT AGE what poorly drained to poorly drained or excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained LANDUSE rice, non-irriga it nd, unmanaged	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
<b>LAND LIN ELEVATION</b> $12 - 1000m - 1000000 - 100000000 - 100000000 - 100000000$	MITATION - 1500m n GRAPHY ring to moderately very steep MITATION 2-Rc2 - Sh2-Rc2	steep <b>CODE</b> LIN 11 T3-E3-S 12 T3-E12- 13 T3-F3-I 14 T3 15 T3-E3 16 T3-E3-S	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2 D2	D COMBINAT AGE what poorly drained to poorly drained or excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained <b>LANDUSE</b> rice, non-irriga	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LIN         ELEVATION         El2       - 1000m -         El2       - 1000m -         El3       - > 1500m         GLOPE/TOPOG       I         T2       - Undulation         T3       - Steep to         CODE       LIN         1       El2-Sh2         2       F2-Tc         3       F3-D2         4       T2         5       T2-E3         6       T2-E3-         7       T2-E12-	MITATION - 1500m n GRAPHY ting to moderately very steep MITATION 2-Rc2 -Sh2-Rc2 -E3-Sh2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I         14       T3         15       T3-E3         16       T3-E3-S         17       T3-E12-S	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2 D2	D COMBINAT AGE what poorly drained to poorly drained or excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained LANDUSE rice, non-irriga it nd, unmanaged	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
LAND LIN         ELEVATION         El2 $-1000m$ -         El2 $-1000m$ -         El2 $-1500m$ El3 $->1500m$ SLOPE/TOPOG       2         T2 $-$ Undulation         T3 $-$ Steep to         CODE       LIN         1       El2-Sh2         2       F2-Tc         3       F3-D2         4       T2         5       T2-E3         6       T2-E3-         7       T2-E12-         8       T2-F3-	MITATION - 1500m n GRAPHY ting to moderately very steep MITATION 2-Rc2 -Sh2-Rc2 -E3-Sh2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I         14       T3         15       T3-E3         16       T3-E3-S         17       T3-E12-         18       T3-E13	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2 D2	D COMBINAT AGE what poorly drained to poorly drained or excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained LANDUSE rice, non-irriga it nd, unmanaged	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		
<b>LAND LIN ELEVATION</b> $212 - 1000m - 10000m - 1000m - 1000m - 1000m - 1000m - 1000m - 1000m - 10000m - 10$	MITATION - 1500m n GRAPHY ting to moderately very steep MITATION 2-Rc2 -Sh2-Rc2 -E3-Sh2-Rc2	steep         CODE       LIN         11       T3-E3-S         12       T3-E12-         13       T3-F3-I         14       T3         15       T3-E3         16       T3-E3-S         17       T3-E12-S	PTION ANI SOIL DRAINA D2 - Some D3 - Very SOIL TEXTU Tc - Coars MITATION Sh3-Rc2 E3-Sh3-Rc2 D2	D COMBINAT AGE what poorly drained to poorly drained or excess RE se texture $\begin{tabular}{lllllllllllllllllllllllllllllllllll$	poorly drained sively drained LANDUSE rice, non-irriga it nd, unmanaged	ted	Sh2- Moderately ofSh3- Very shallowROCK OUTCROPSRc2- Common		1)	S E E F	ly clay loam <b>SOIL EROSION</b> 22 - Moderate ( 23 - Severe ero <b>FLOODING</b> 22 - Moderate (	osion seasonal flooding		

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.

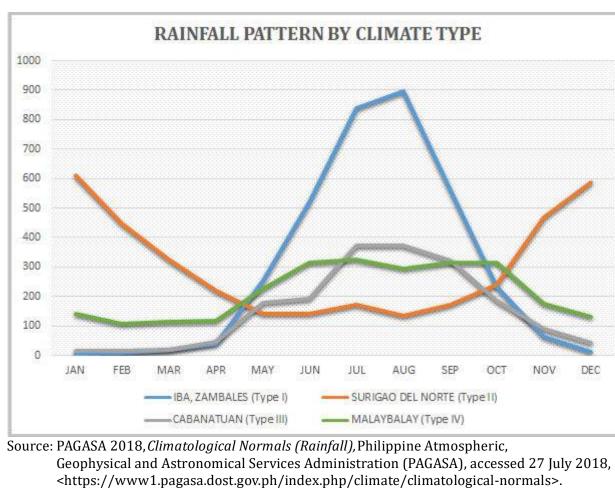
### Moderately Suitable (S2)

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.

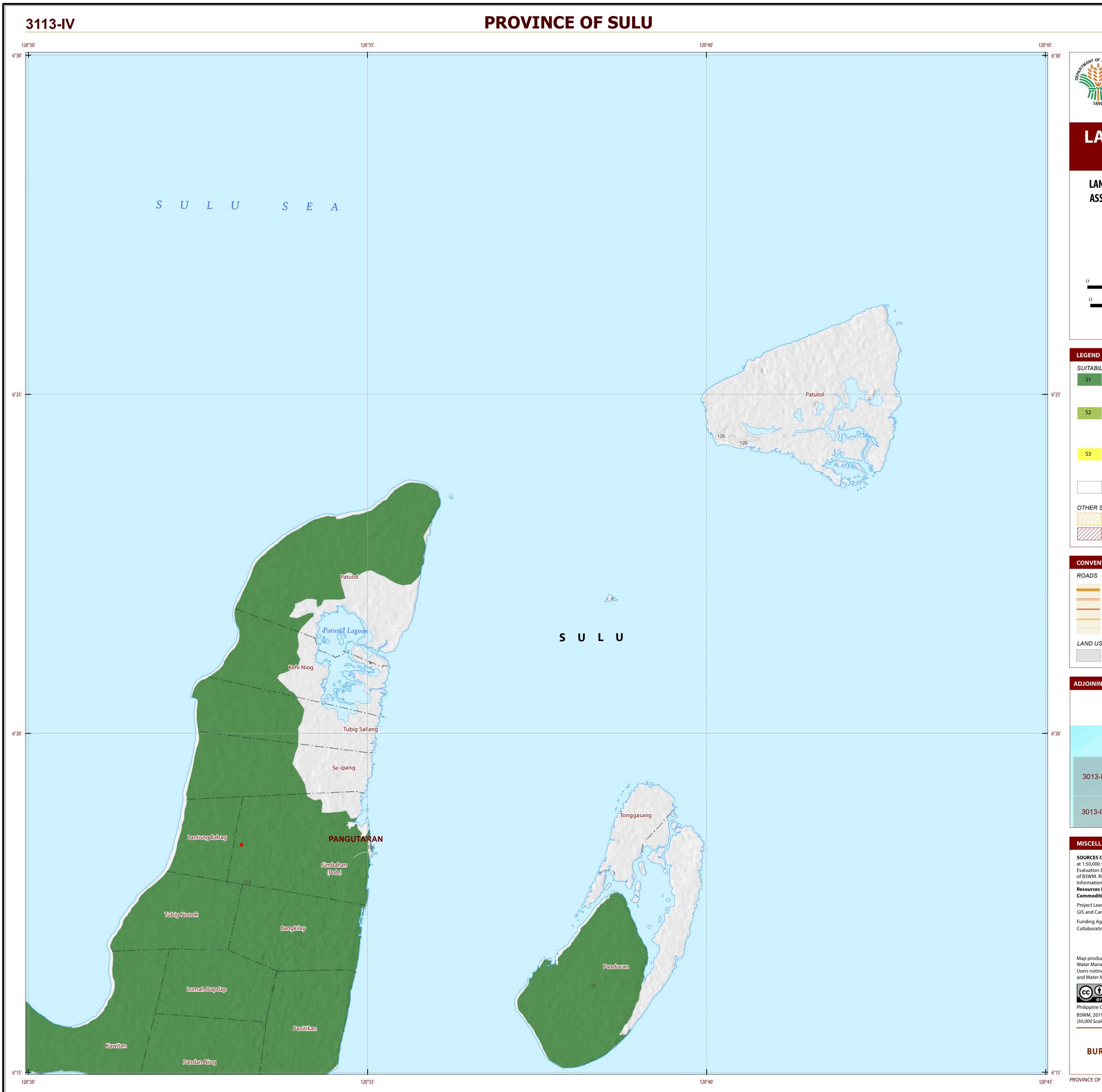
Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater 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.



V0Y         V02K         V02K	
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	0 0 U LEGEND SUITABIL 51
SULU SEA	6°25'  52  53  CONVENT  ROADS  LAND US  ADJOININ
	6'20' MISCELL SOURCES O at 1:50,000 s Evaluation D of BSWM. Riv Information Resources H Commoditi Project Lead GIS and Cart Project Lead GIS and Cart Funding Age Collaboratin Map product Water Mana- Users noting and Water M Map product Water Mana- Users noting Age Collaboratin Map product SUMA BAR BUR

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applic cantly an acc Mode will re exten attrac <b>Marg</b> severe tivity only r	y Suitable - cation of a giv reduce proc ceptable leve trately Suita trately severe duce produc t that the ove tive, will be a <b>inally Suitak</b> e for sustaine	ven use, or only m ductivity or benefit el. <b>ble</b> - Land having for sustained app ctivity or benefits a erall advantage to appreciably inferio <b>ble</b> - Land having l ed application of a or increase required stified.	inor limitatic ts and will no limitations v lication of a and increase be gained fr r to that exp imitations w given use ar	itations to sustained ons that will not signifi- ot raise inputs above which in aggregate are given use; the limitations required inputs to the om the use, although still ected on class S1 land. hich in aggregate are ad will so reduce produc- t this expenditure will be
SIGNS NGP / Cacac		Land lin Land us		
NTIONA	L SIGNS			
Expre Expre Trunk Prima Secon Tertia	BO ssway line ry idary	UNDARY Region Province District Municipa Barangay	PLACI	OLOGY Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
Expre Expre Trunk Prima Secon Tertia	BO ssway line ry idary ry	Region Province District Municipa		Sea / Shoreline Lakes / Rivers ES Capital City / City
Expre Trunk Prima Secon Tertia JSE Built-u	BO ssway line ry idary ry	Region Province District Municipa Barangay		Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
E Expre Trunk Prima Secon Tertia JSE Built-u	BO ssway line ry idary ry	<ul> <li>Region</li> <li>Province</li> <li>District</li> <li>Municipa</li> <li>Barangay</li> <li>Fishpond</li> </ul>		Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
E Expre Trunk Prima Secon Tertia JSE Built-u	BO ssway line ry idary ry	<ul> <li>Region</li> <li>Province</li> <li>District</li> <li>Municipa</li> <li>Barangay</li> <li>Fishpond</li> </ul>		Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
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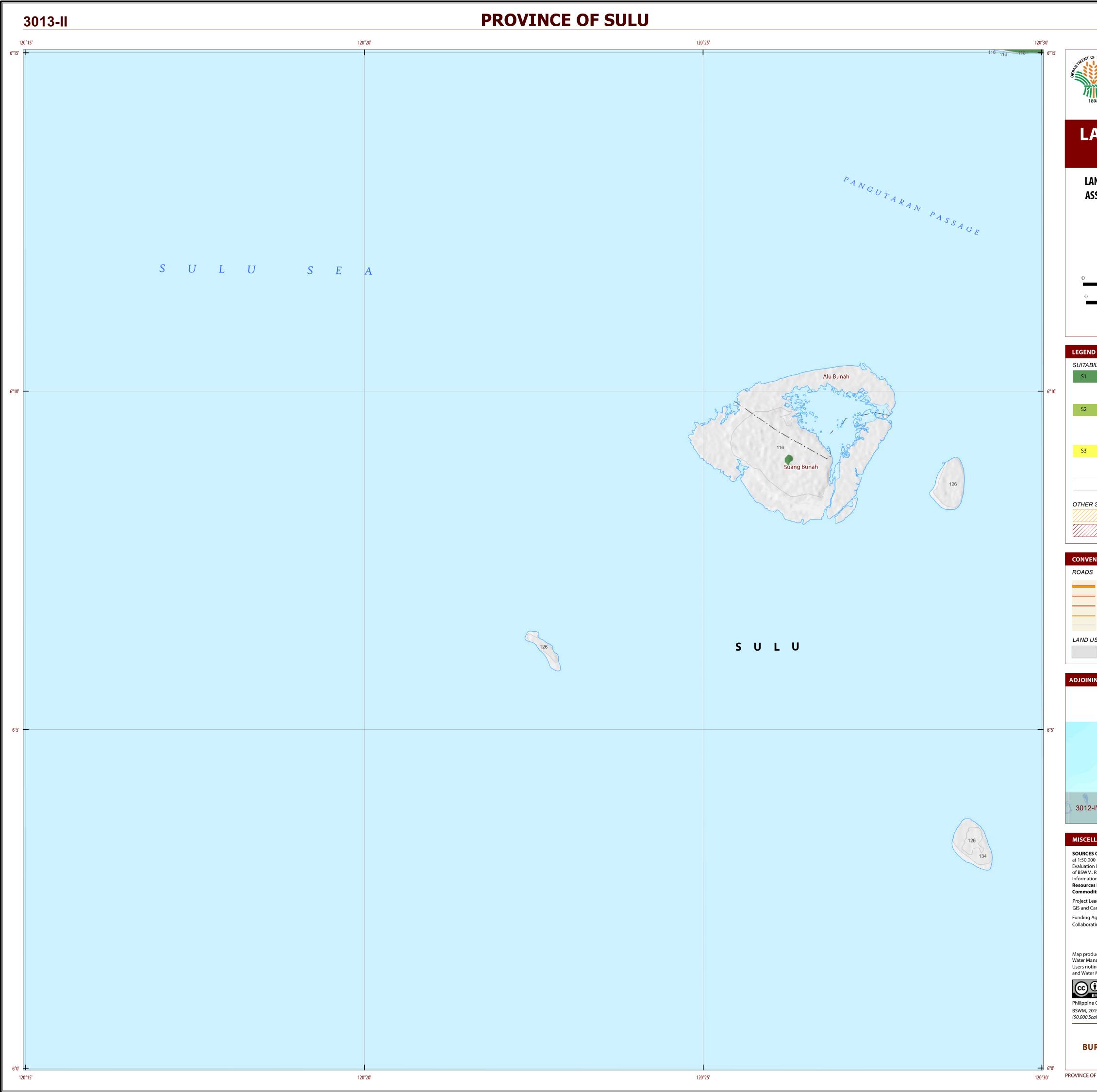


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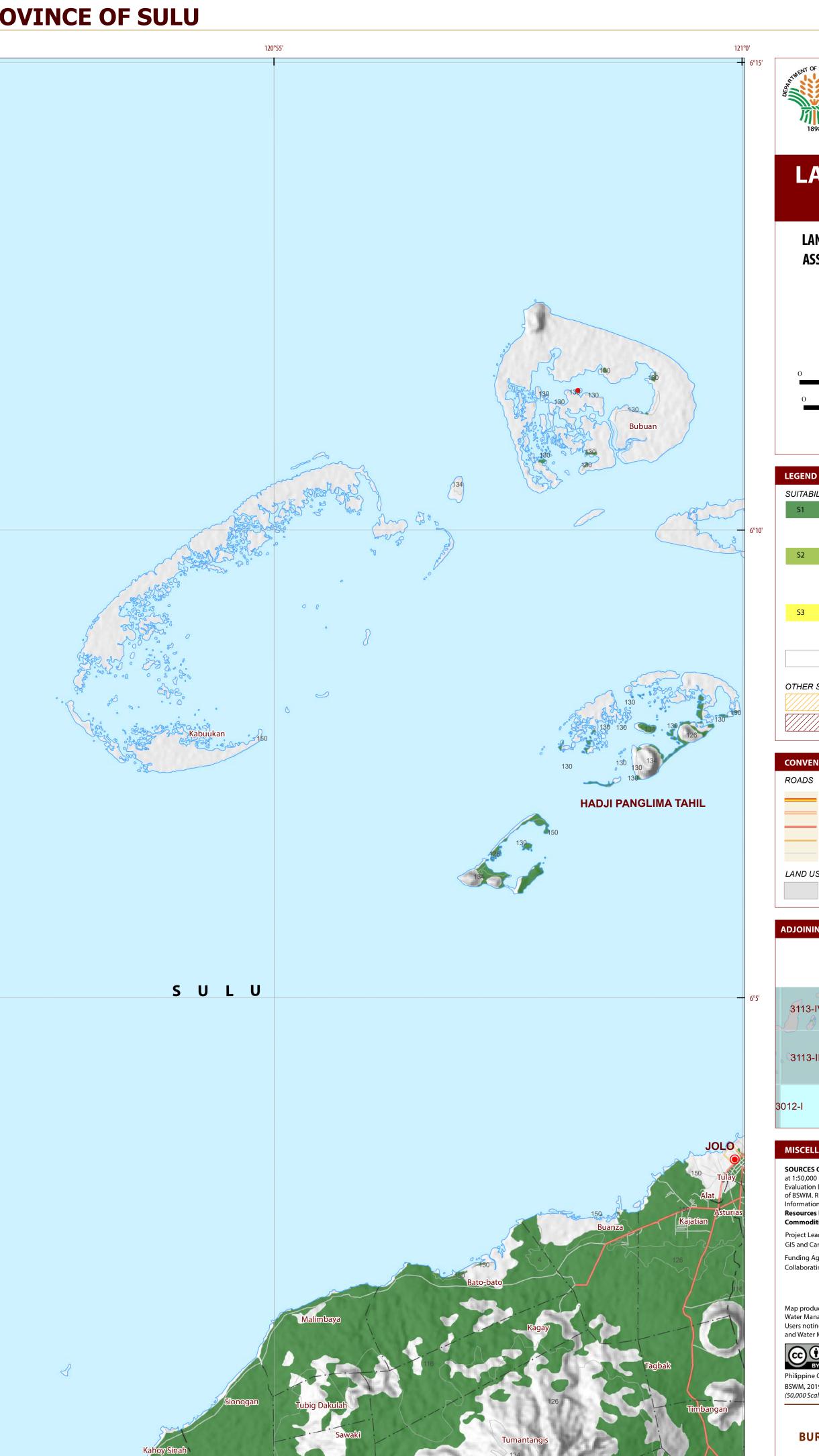
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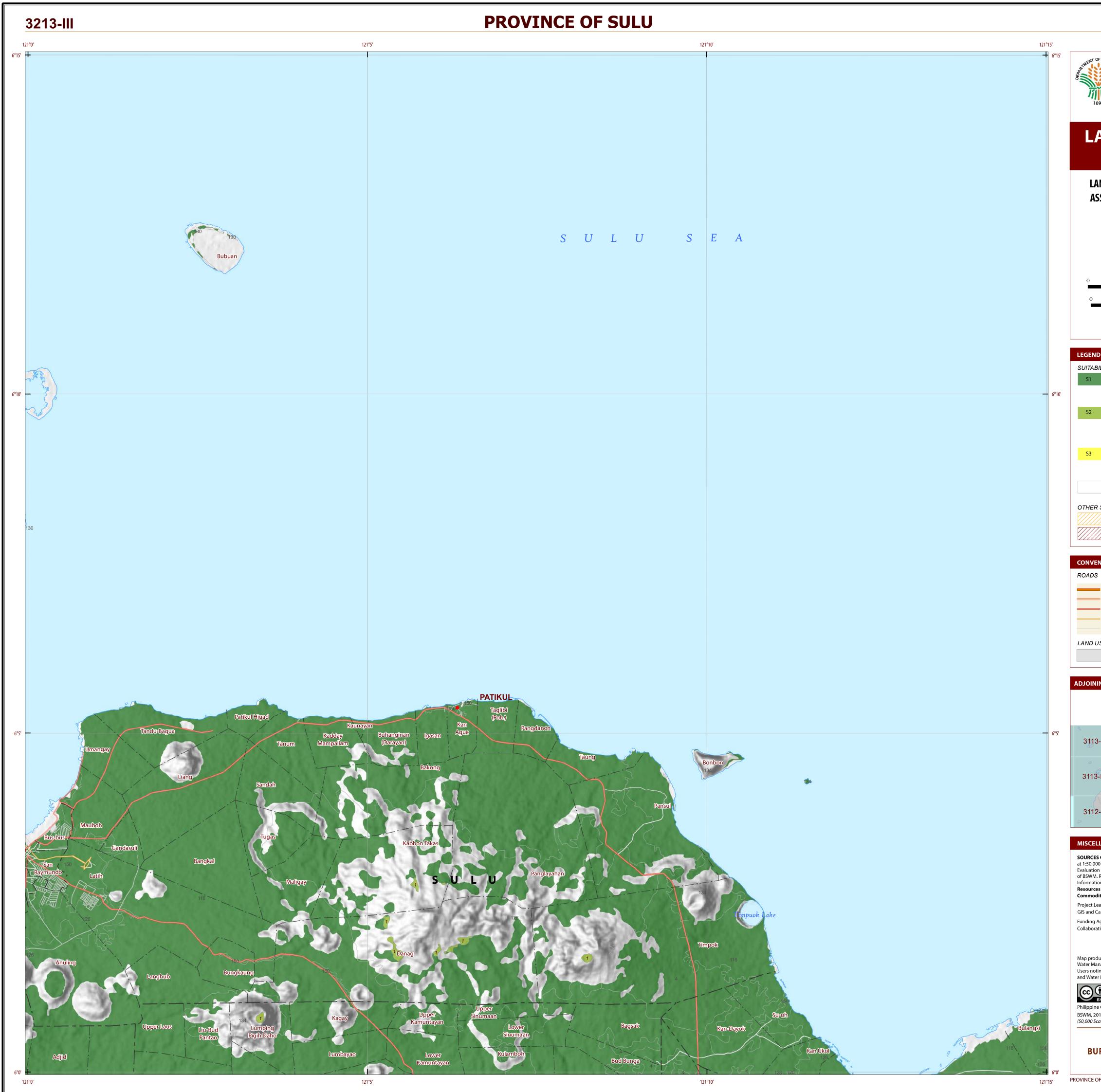


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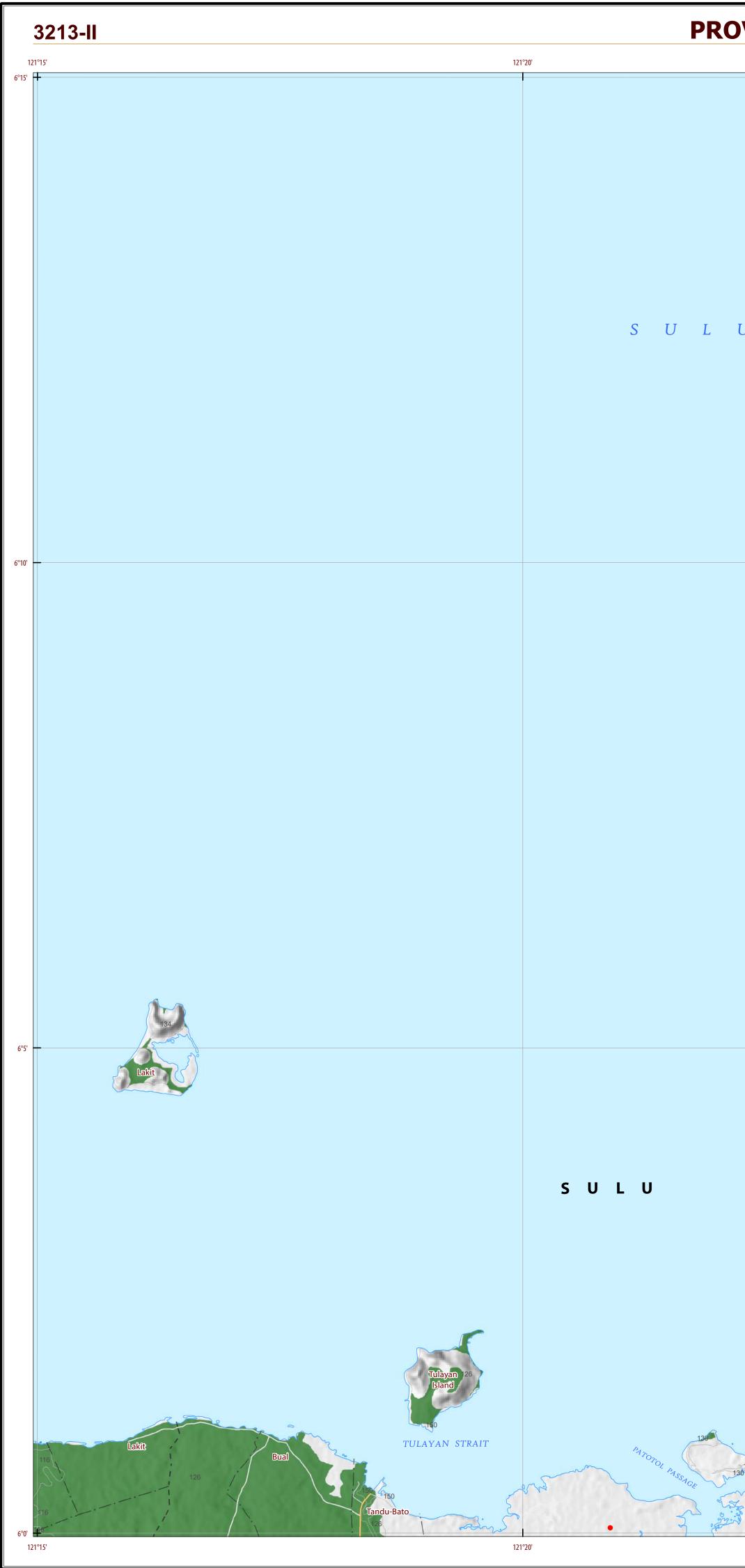
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and Water Management. This publication is licensed under International License. Unless oth intellectual property rights, in th Philippine Government. This publication should be attribut BSWM, 2019. Land Suitability Map Series for Cacao of the PRO (50,000 Scale) . CC BY NC SA 4.0.	er a Creative Commons Attribution 4.0 lerwise noted, copyright and any other is publication is owned by the ted as : DVINCE OF SULU
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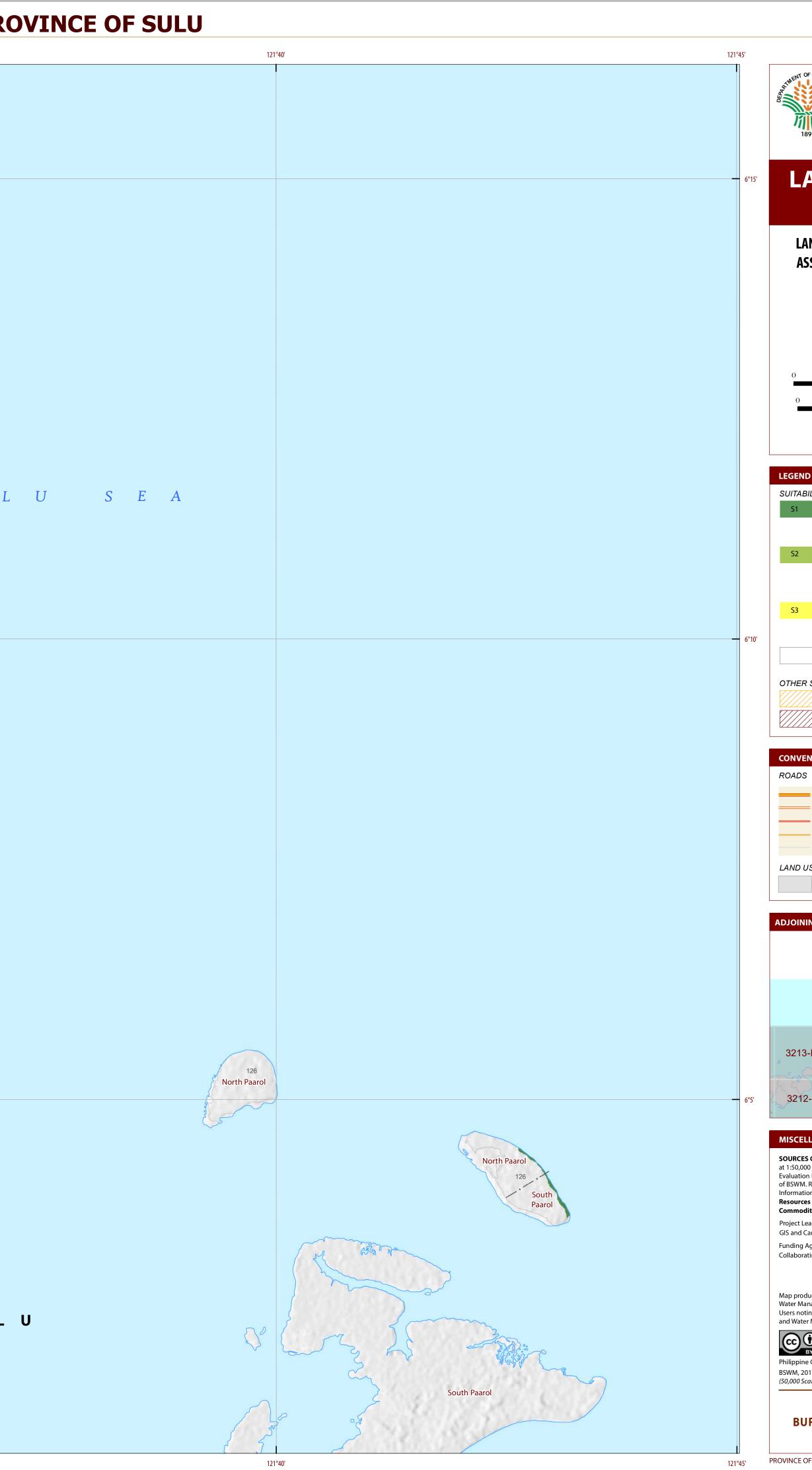
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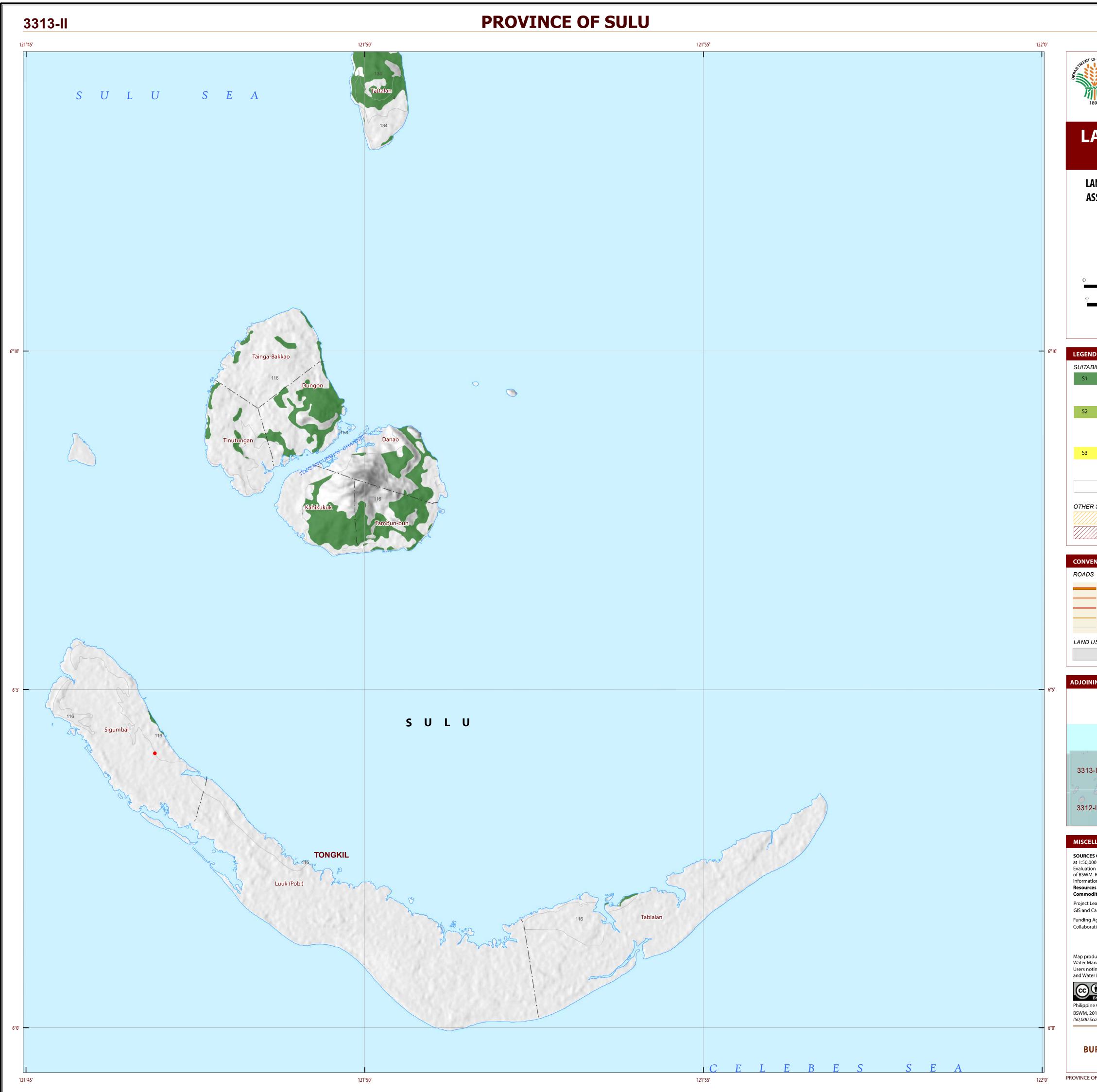
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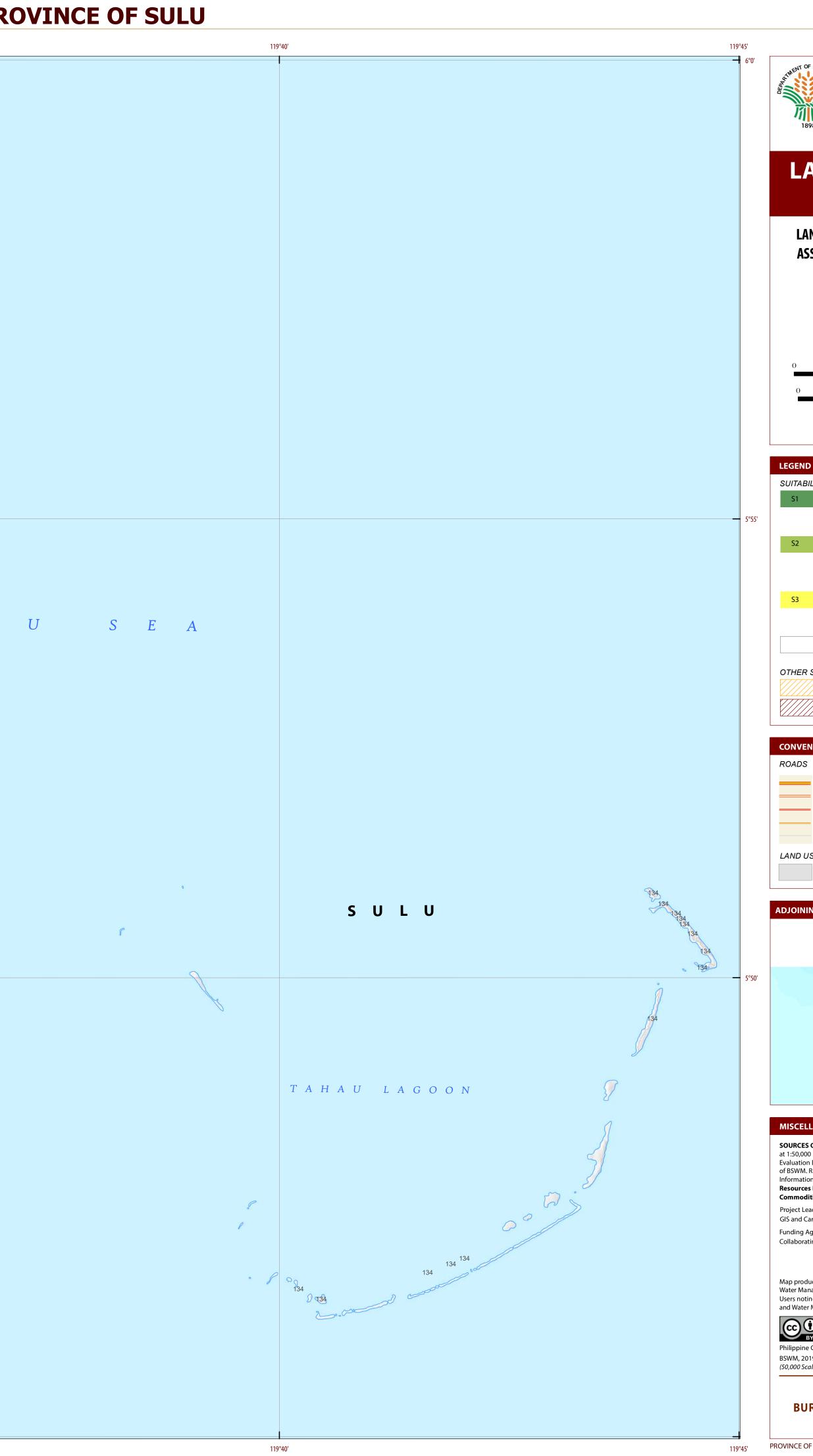


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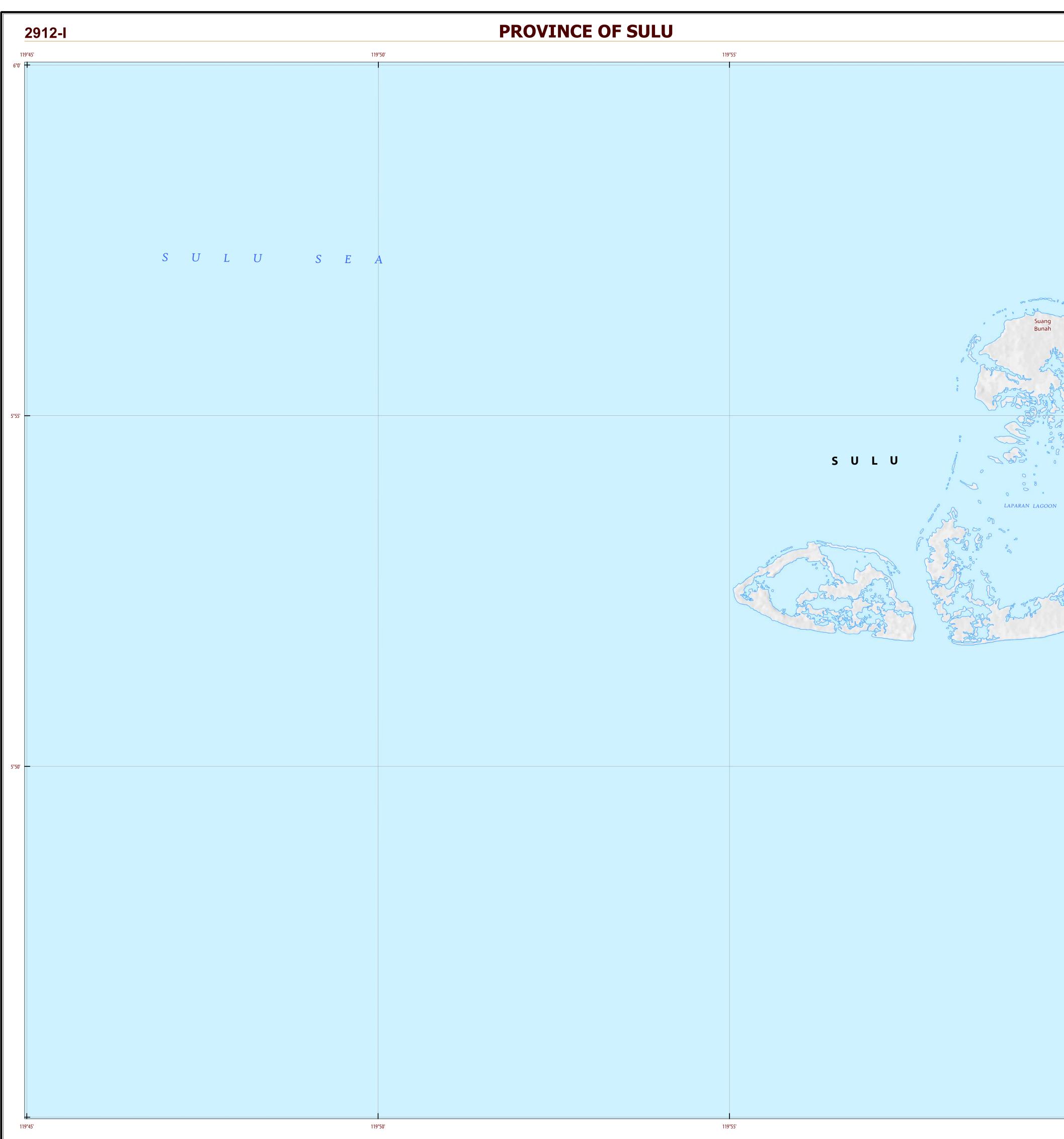


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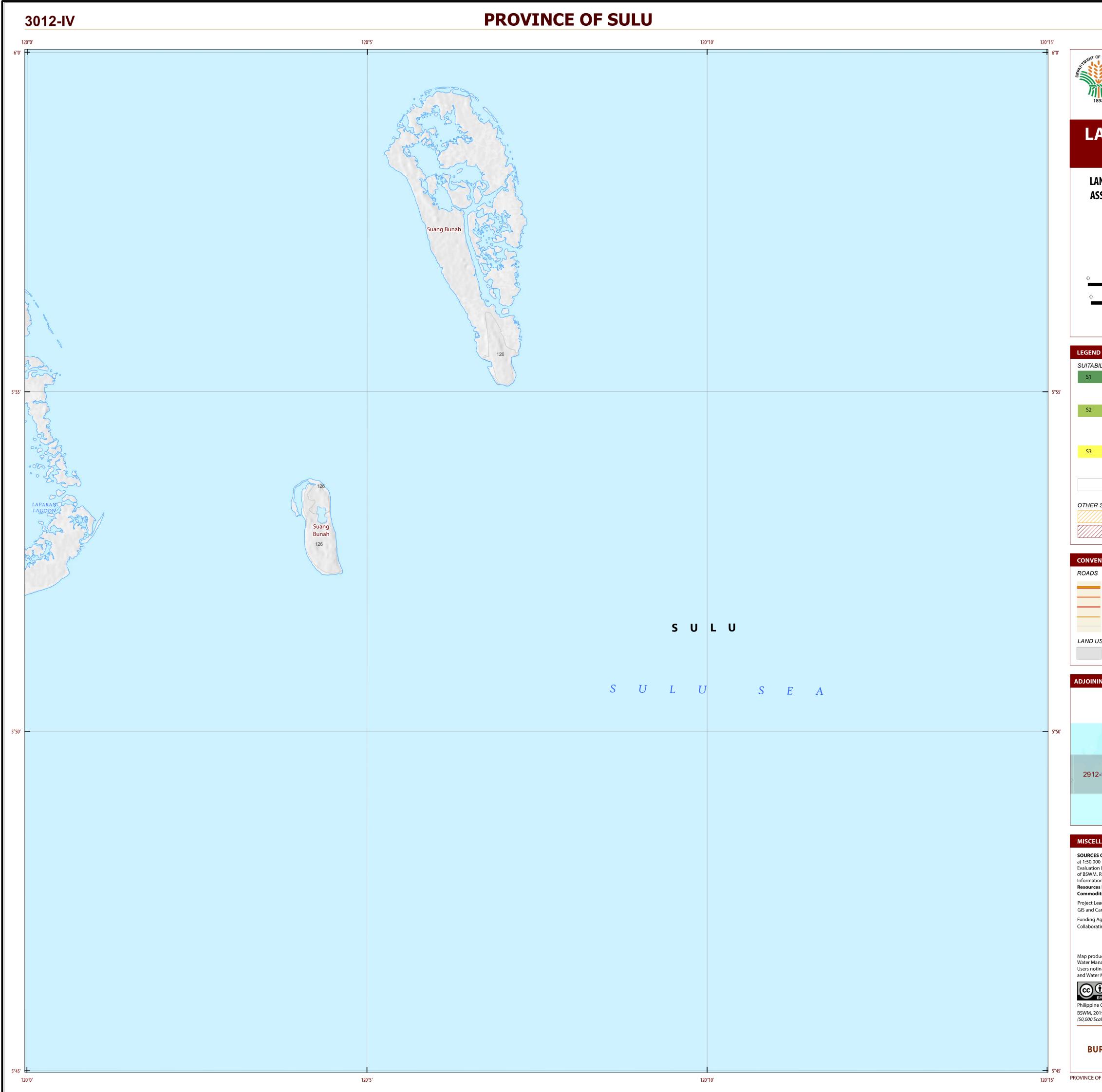
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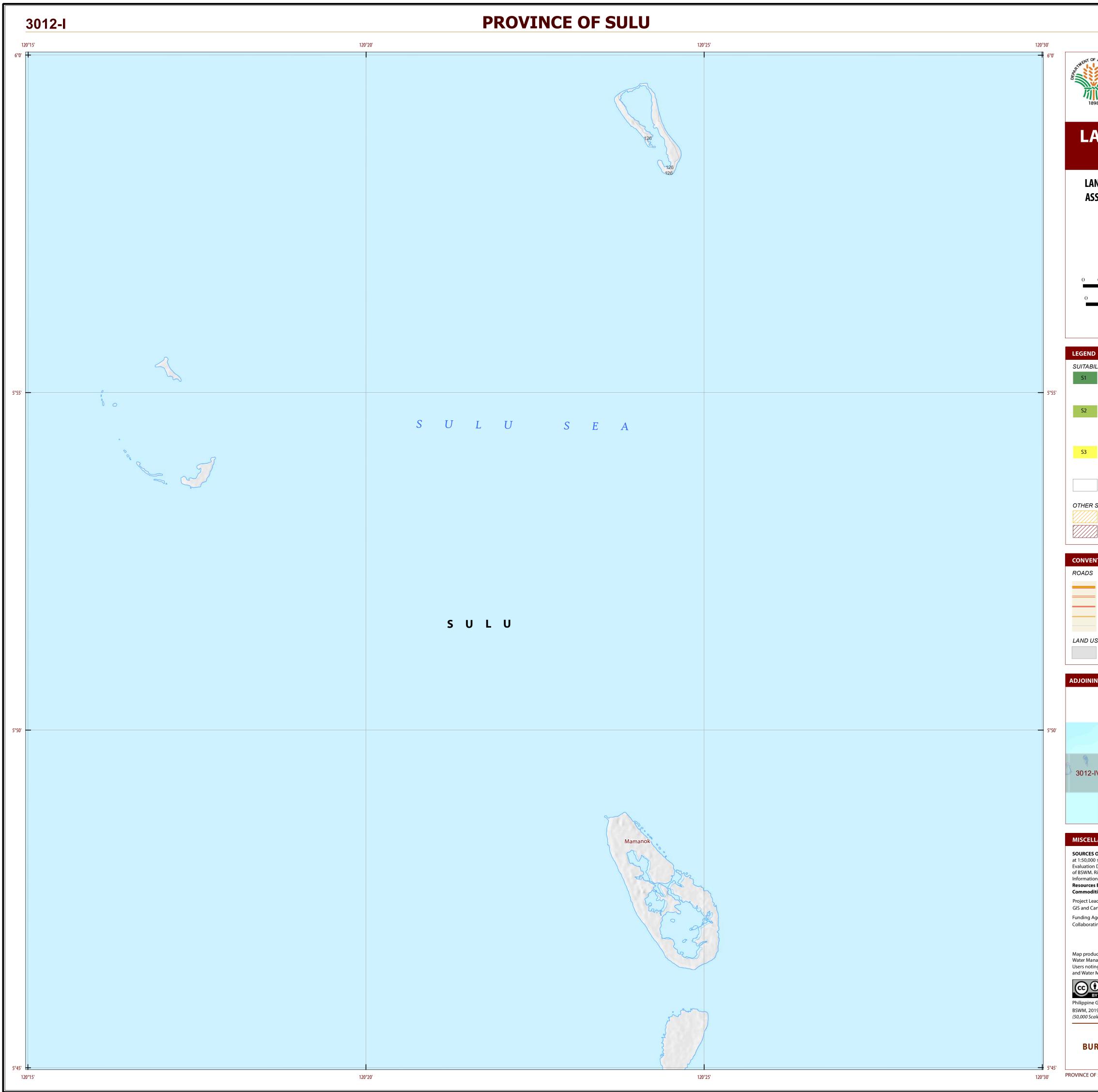
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	GIS and Cartography       : IRVIN K. SAMALCA         Funding Agency       : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)         Collaborating Agencies       : Philippine Council on Agriculture and Fisheries (PCAF)         : 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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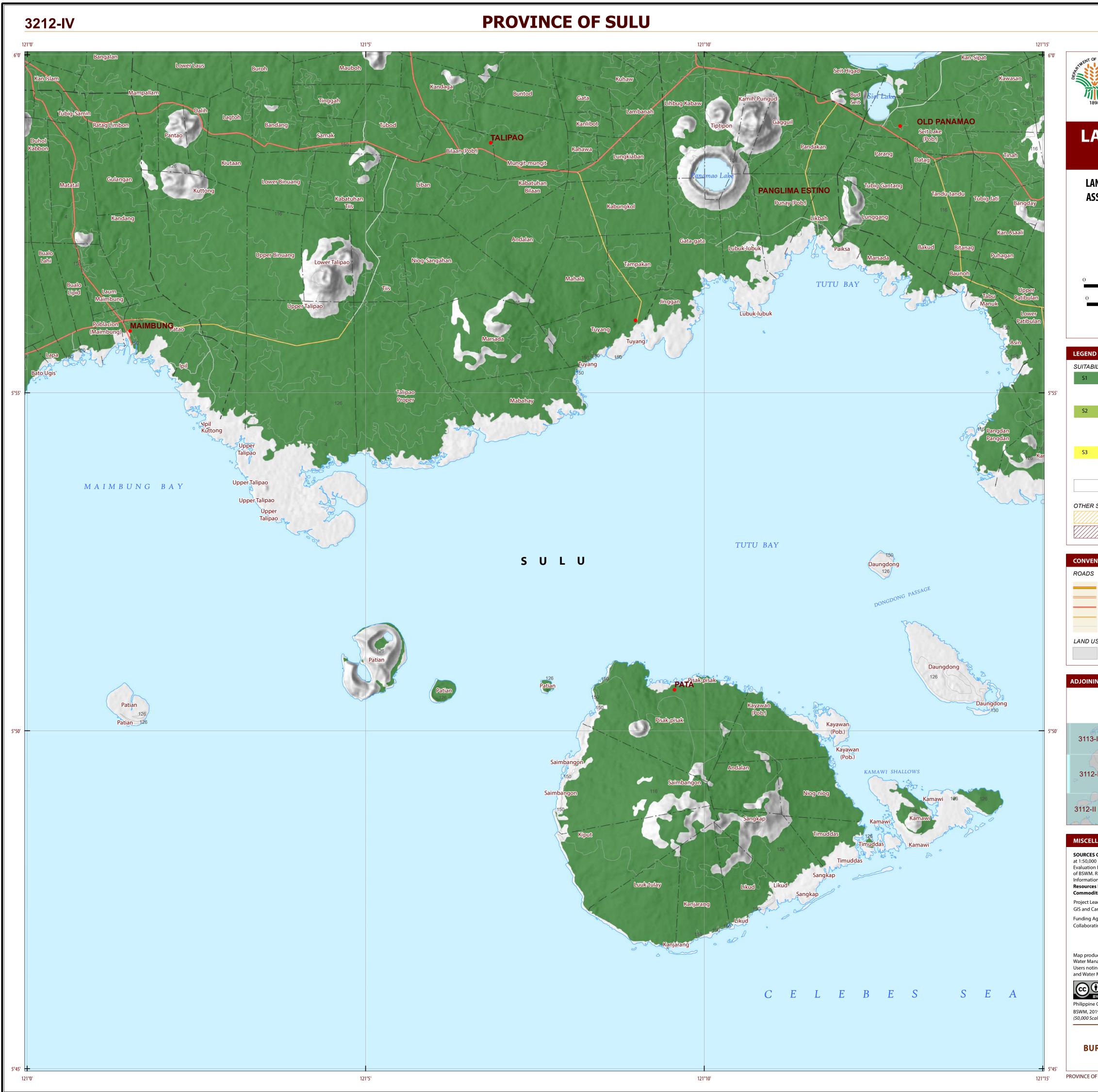
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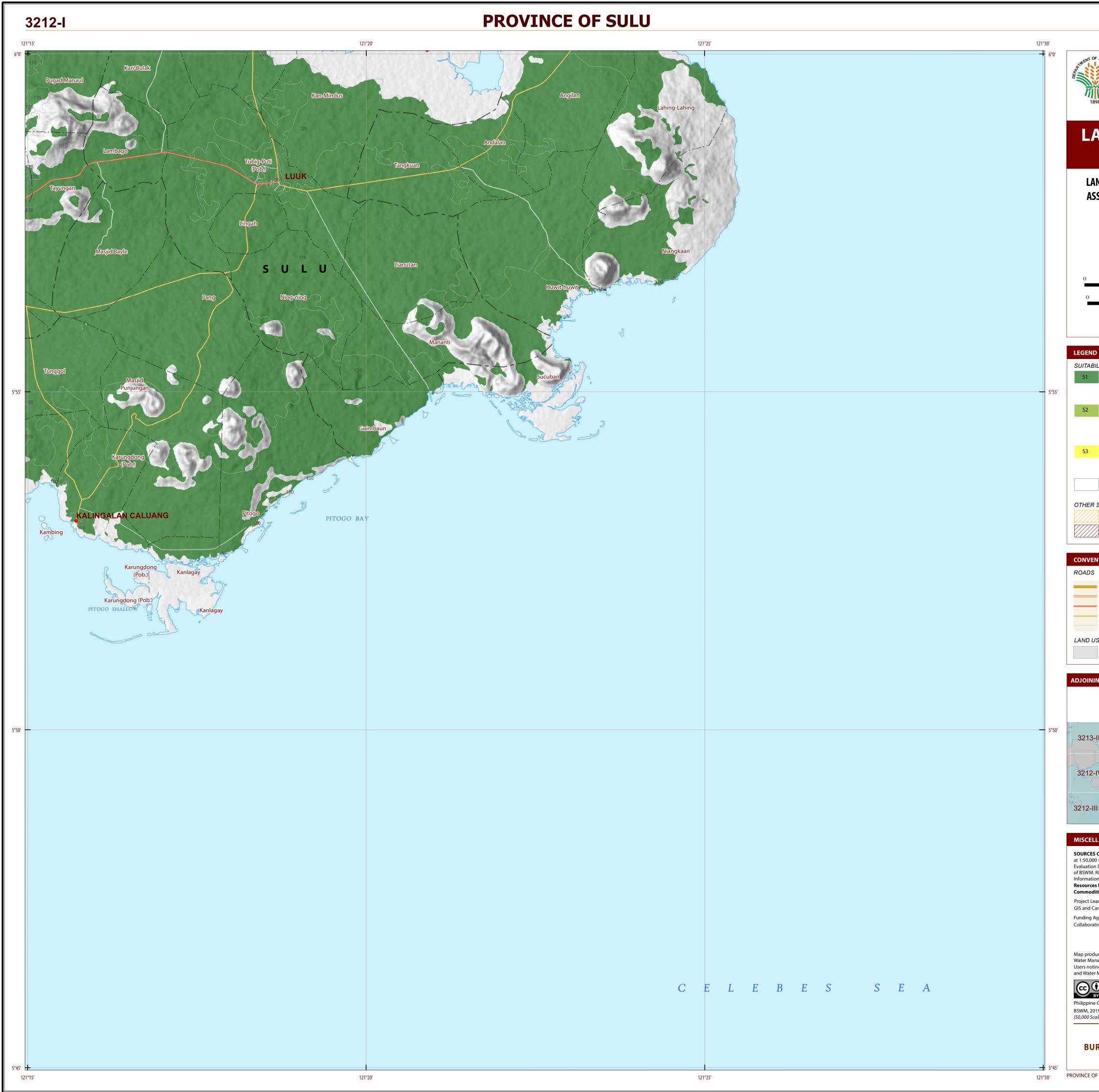
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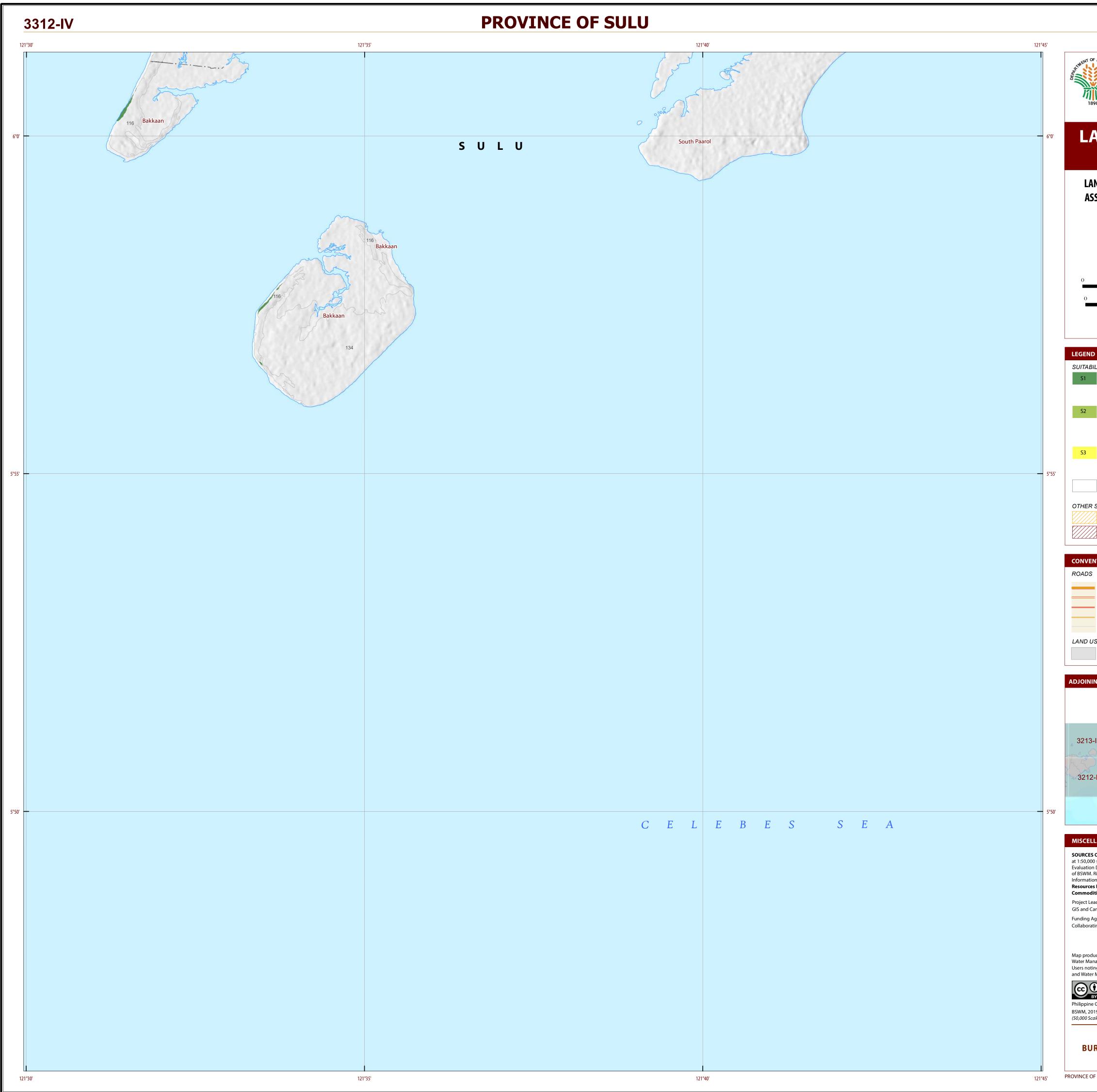
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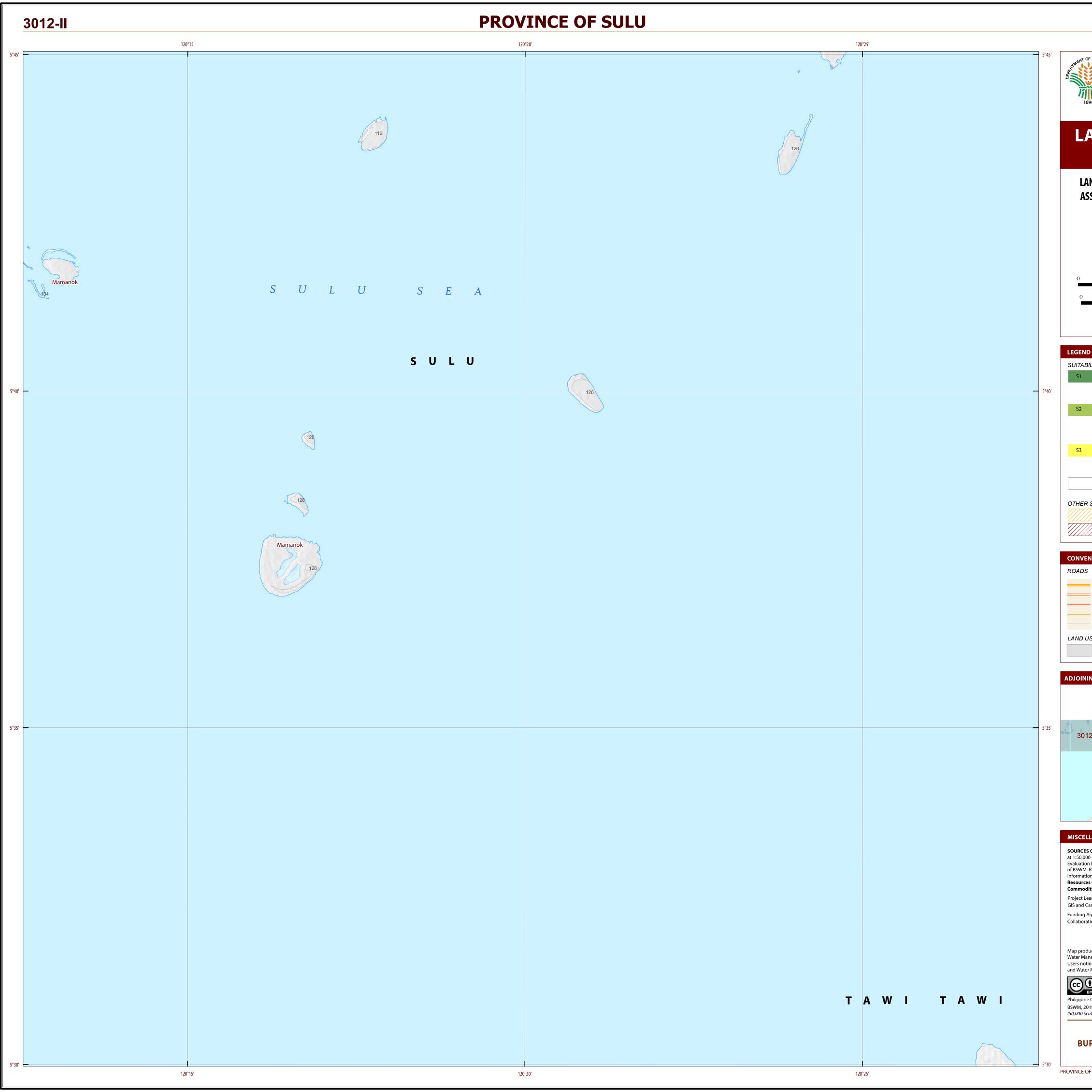
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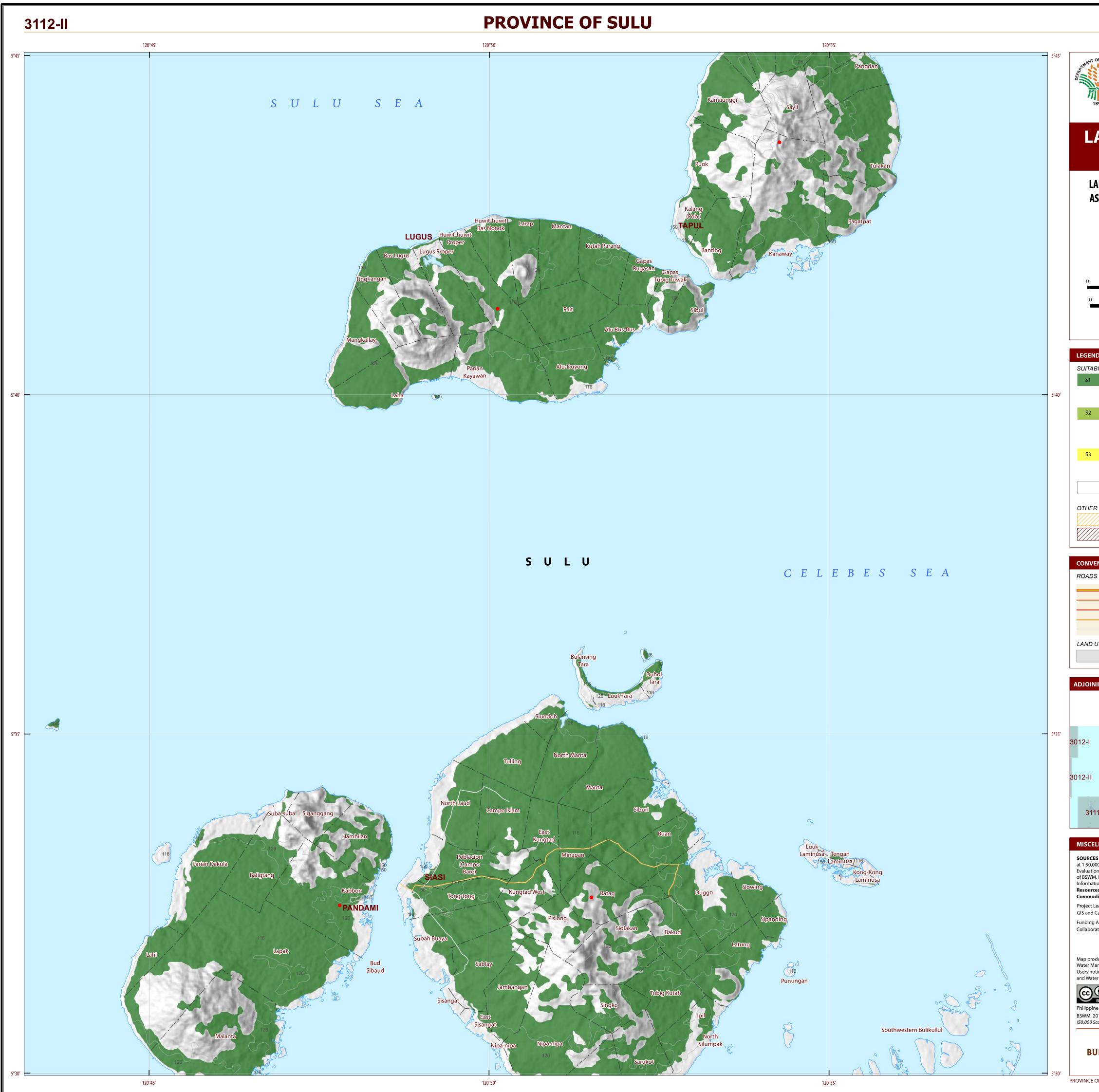
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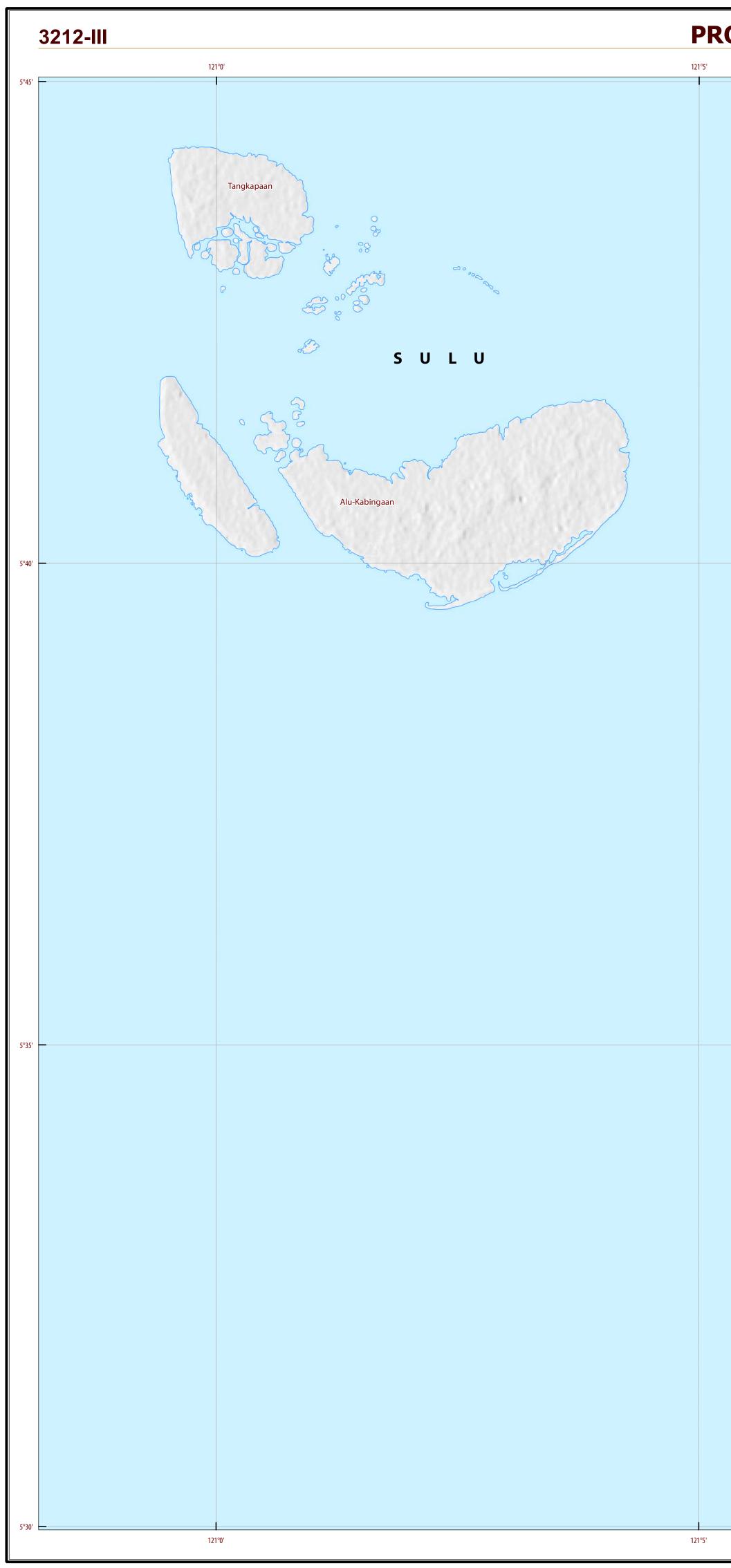
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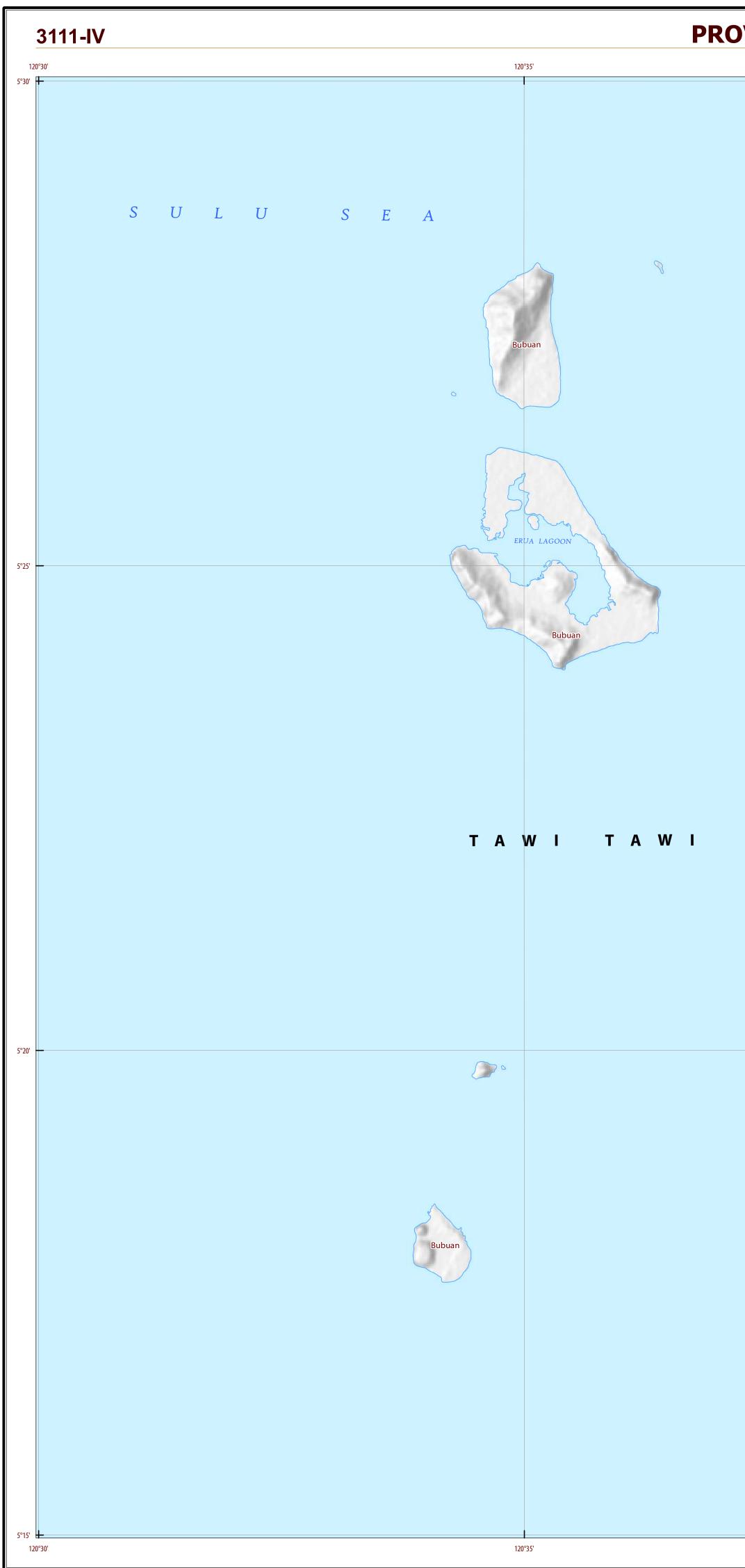
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<b>LANEOUS INFORMATION S OF INFORMATION</b> : Topographic information taken from NAMRIA Topographic Map         10 scale. Land resources information from the Agricultural Land Management and         n Division (ALMED), Soils Survey Division (SSD) and 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 <b>es Evaluation and Suitability Assessment of Strategic Production Areas for Major lities Project</b> implemented by BSWM (2017).         eader       : BERNARDO B. PASCUA         Cartography       : IRVIN K. SAMALCA         Agency       : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)         Iting 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         Huced by the Geomatics and Soil Information Technology Division, Bureau of Soils and nagement (BSWM).				
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