ROBUSTA, LIBERICA AND EXCELSA COFFEE

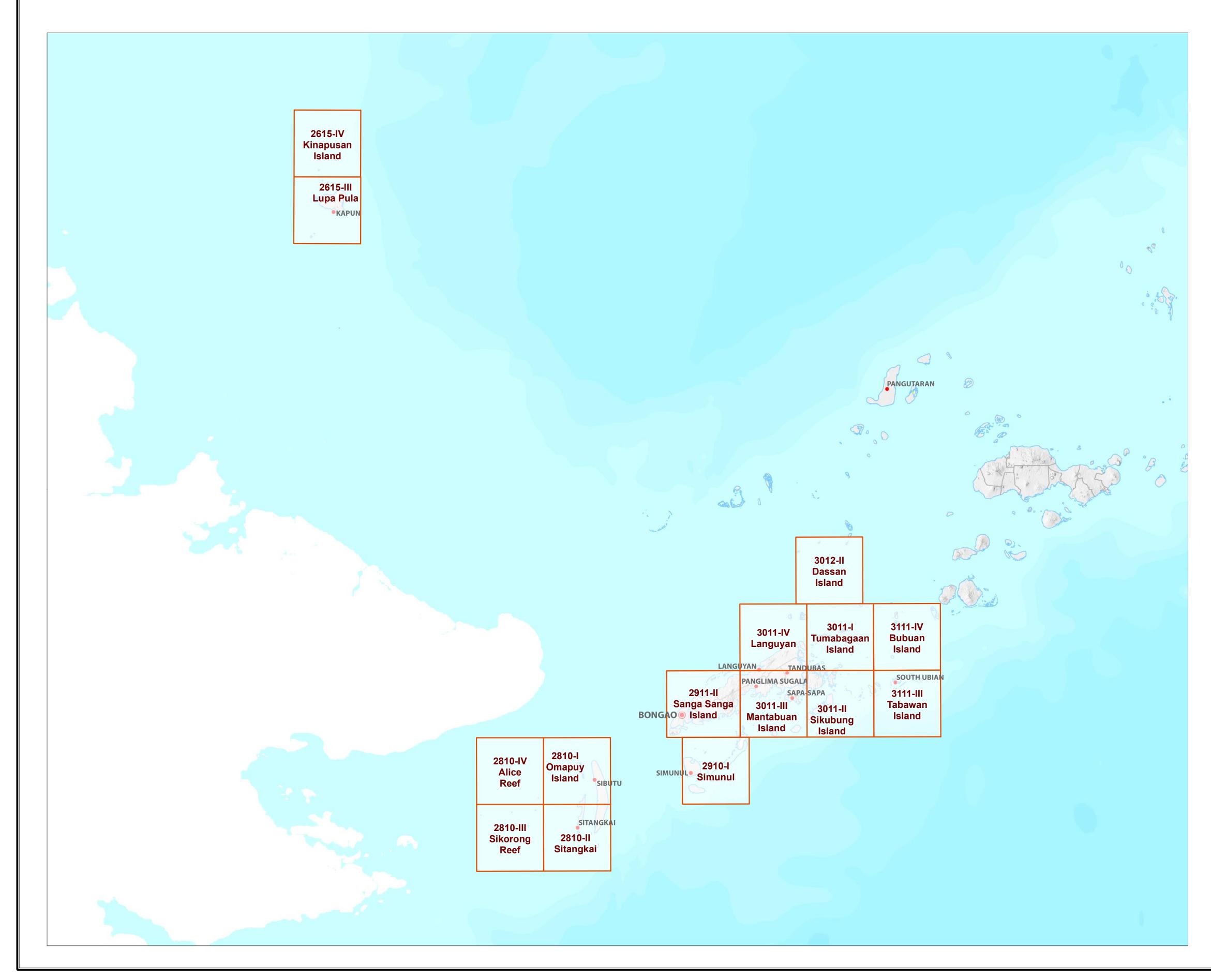
LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

PROVINCE OF TAWITAWI



LAND SUITABILITY MAP

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF TAWITAWI



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LAND SUITABILITY MAP FOR **ROBUSTA, LIBERICA AND EXCELSA COFFEE**

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

EXTENT OF SUITABILITY FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (H	la)			CONFL	LICT RES	OLUTION	l (Ha)		TOTAL
MUNICIPALITY	EXISTI	NG COFF	EE (Ha)	TOTAL EXISTING AREA (Ha)	Cocc	onut	Shrub unman		Grass unman		Cor	n	Paddy non-irr		Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	millin (na)
BONGAO	-	-	-	-	3,356	4,709	345	49	19	51	12	-	-	-	-	-	8,542
LANGUYAN	-	-	-	-	75	3,556	4	1,186	8	572	-	289	-	-	-	-	5,690
MAPUN	-	-	-	-	4,745	863	-	-	-	-	-	-	-	-	-	-	5,607
PANGLIMA SUGALA	-	-	-	-	1,882	3,794	212	2,967	50	32	-	-	-	-	-	-	8,937
SAPA-SAPA	-	-	-	-	2,992	-	943	-	57	-	38	-	-	-	-	-	4,030
SIBUTU	-	-	-	-	544	-	4,526	34	720	-	1,004	2	-	-	-	-	6,831
SIMUNUL	-	-	-	-	3,659	-	1,840	-	21	-	-	-	-	-	-	-	5,520
SITANGKAI	-	-	-	-	1,359	-	287	-	521	-	-	-	-	-	-	-	2,167
SOUTH UBIAN	-	-	-	-	1,673	-	224	-	2	-	-	-	-	-	-	-	1,900
TANDUBAS	-	-	-	-	1,820	76	2,109	3,375	1,240	265	-	-	-	-	-	-	8,886
Total Area (Ha)	-	-	-	-	22,106	12,997	10,490	7,611	2,640	920	1,055	291	-	-	-	-	58,109

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

20 T3-E3

10 T2-E3-Sh2-Rc3

AGRONOMIC REQUIREMENT OF ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION

LAND UTILIZAT TYPE	ΓΙΟΝ SUITABILITY RATING	SLOPE (%	SOIL DEPTH (cm)	SOIL TEX	DRAIN		SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATI TYPE
Coffee		<8	>100	CL, SiCL, SC SiC, C, F		IWD	5.6 -7.2	high	none-slight	none-slight	none-few	<1000	2001-4500	I, III, IV
(Robus Excels		8 - 30	30 - 100	FSL, L, S	SiL SPD,	PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	1000-2000	1000-2000	I, II
Liberic	sa) S3	>30	<30	S, LS, CSL	L, SL VPD,	ED	<5.0 -> 7.9	low	severe	severe	many	>2000	<1000 >4500	
SLOPE (%	6)	1	SOIL DRAI	NAGE	1	S	SOIL REACT	ON (pH)		SOIL TEXTU	IRE	1		
9 - 3 3 - 8 3 - 18 8 - 30 60 - 50 • 50 • 50 • 50 • 50 • 50 • 50 • 0 - 100 • 100	 level to gently slopi gently sloping to un undulating to rolling rolling to moderate steep very steep TH (cm) very shallow shallow moderately deep deep to very deep 	dulating g	WD MWD SPD PD VPD SURFACE ROCK OUT < 10% 10 - 30%	 excessively dra well drained moderately we somewhat pood poorly drained very poorly dra very poorly dra MPEDIMENT CROPS none - few common many 	ell drained orly drained d	4 5 6 6 7 7	4.5 - 5.0 - v 5.1 - 5.5 - s 5.6 - 6.0 - r 6.1 - 6.5 - s 6.6 - 7.2 - r 7.3 - 7.8 - r 7.9 - 8.4 - r	xtremely acid rery strongly acid trongly acid nedium acid lightly acid neutral nildly alkaline noderately alkaline trongly alkaline		LS - CSL - SL - Medium - FSL - SiL -	sand loamy sand coarse sandy loam sandy loam fine sandy loam loam silt loam clay loam silty clay loam sandy clay loam	1	SiC - C -	sandy clay silty clay clay neavy clay
		IS DESCE	ΙΡΤΙΟΝ ΔΙ		RINATIONS	2								
LAND Elevatic El2 - 10	LIMITATION 000m - 2000m 2000m	IS DESCF	SOIL DRA D2 - So	INAGE mewhat poorly	drained to poorly	drained		SOIL DEPTH Sh2 - Shallow to 1 Sh3 - Very shallor		o (30 - 100cm)	SOIL EROSION E2 - Moder E3 - Severe	ate erosion		
LAND ELEVATIO El2 - 10 El3 - > 2 SLOPE/TO F2 - Un	DN 100m - 2000m		SOIL DRA D2 - So D3 - Ve SOIL TEX	INAGE mewhat poorly ry poorly draine		drained		Sh2 - Shallow to a	w (< 30cm)	9 (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion	•	
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LAND ELEVATIO El2 - 10 El3 - > 2 ELOPE/TO C2 - Un C3 - Ste CODE 1 E	ON 000m - 2000m 2000m OPOGRAPHY ndulating to moderately eep to very steep LIMITATION 2-Sh2-Rc2	y steep CODE 11 T2-F	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Cc	INAGE mewhat poorly ry poorly drain FURE arse texture CODE I 21 T3-E	drained to poorly ed or excessively o LIMITATION 3-Rc3	drained	CODE 2	Sh2- Shallow to rSh3- Very shallowROCK OUTCROPSRc2- CommonRc3- ManyLANDUSPaddy rice, non-ir	w (< 30cm)	o (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	•	
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LAND ELEVATIO E12 - 10 E13 - > 2 SLOPE/TO Γ2 - Un Γ3 - Ste CODE 1 E 2 F 3 F 4 Sl 5 T	ON 000m - 2000m 2000m OPOGRAPHY ndulating to moderately eep to very steep LIMITATION 2-Sh2-Rc2 2-D2 3-D2 h2-Rc2 2	CODE 11 T2-F 12 T3 T3-F 14 T3-F 15	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Cc IMITATION 3-D2 3 3-Rc2 3-Sh2-Rc3	INAGE mewhat poorly ry poorly draine FURE arse texture CODE I 21 T3-E 22 T3-E 23 T3-F	drained to poorly ed or excessively of LIMITATION 3-Rc3 3-Sh3-Rc3 3-D2	drained	2 4 81 116 126	Sh2 - Shallow to r Sh3 - Very shallow ROCK OUTCROPS Rc2 - Common Rc3 - Many LANDUS Paddy rice, non-ir Corn Coffee Coconut Grassland, unman	w (< 30cm) E rrigated aged	9 (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	•	
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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.

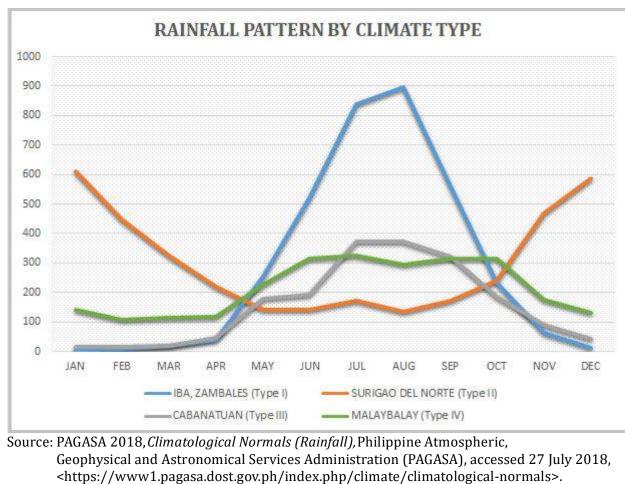
Moderately Suitable (S2)

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.

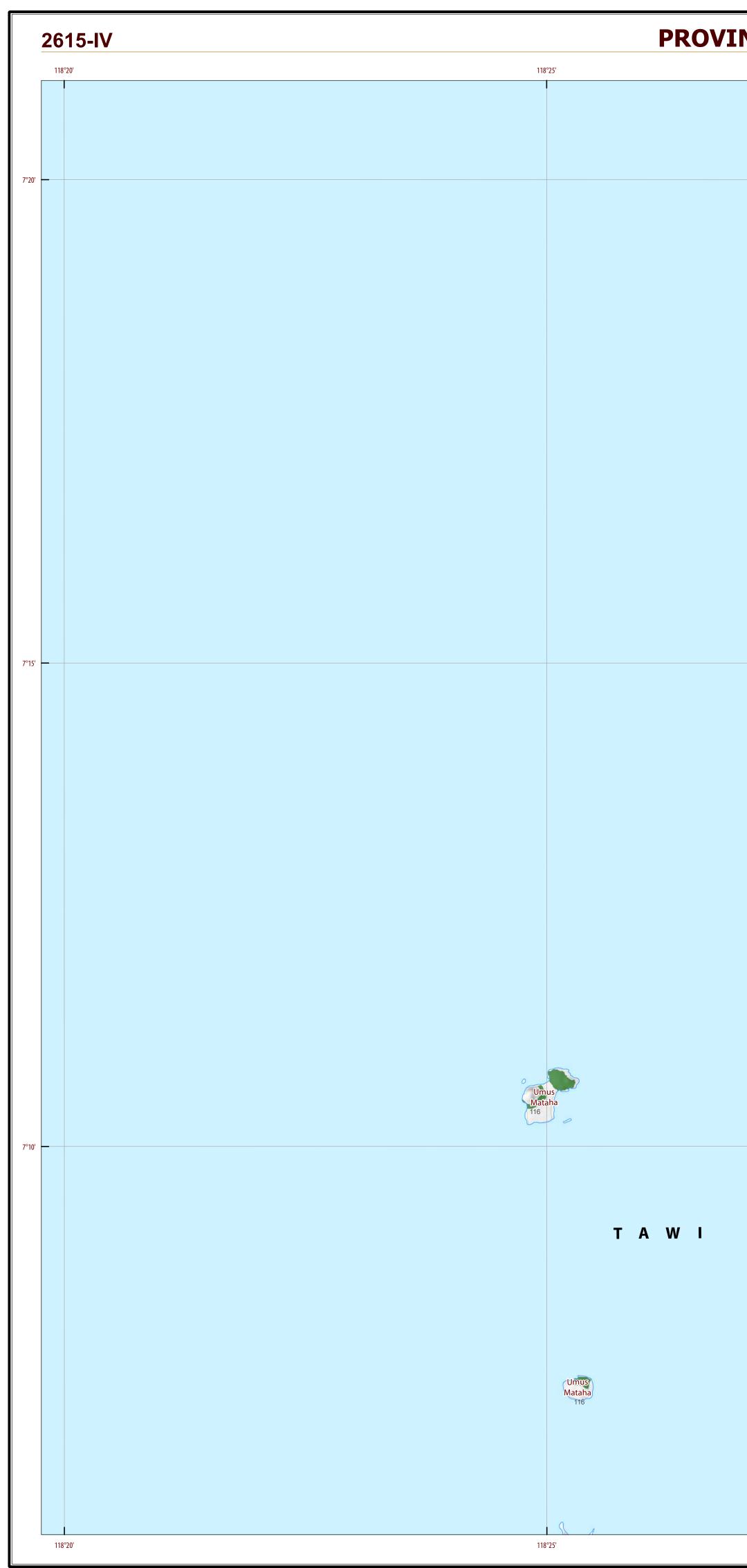
Tawa-tawi is classified as climate type IV



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.

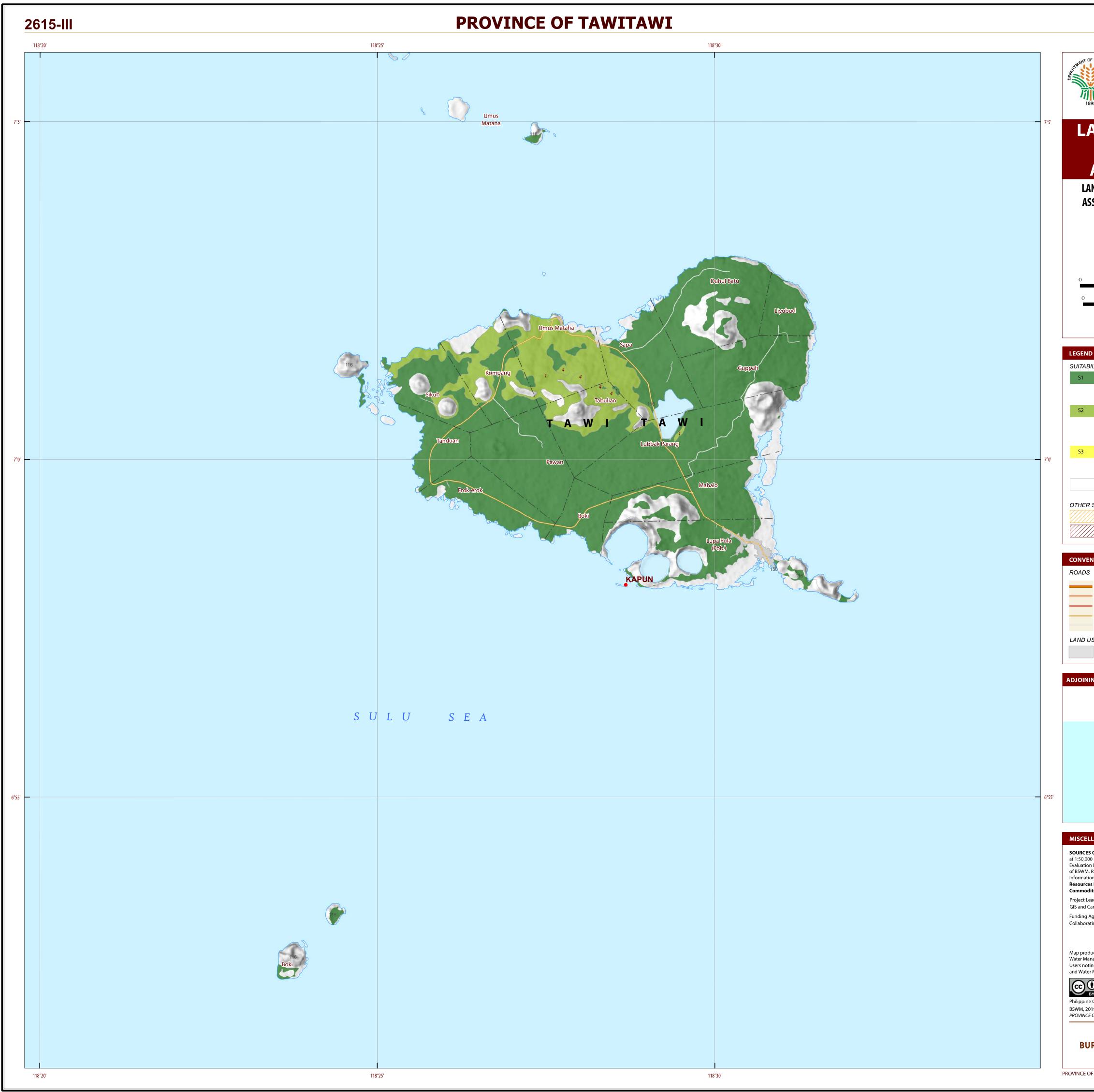
Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater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

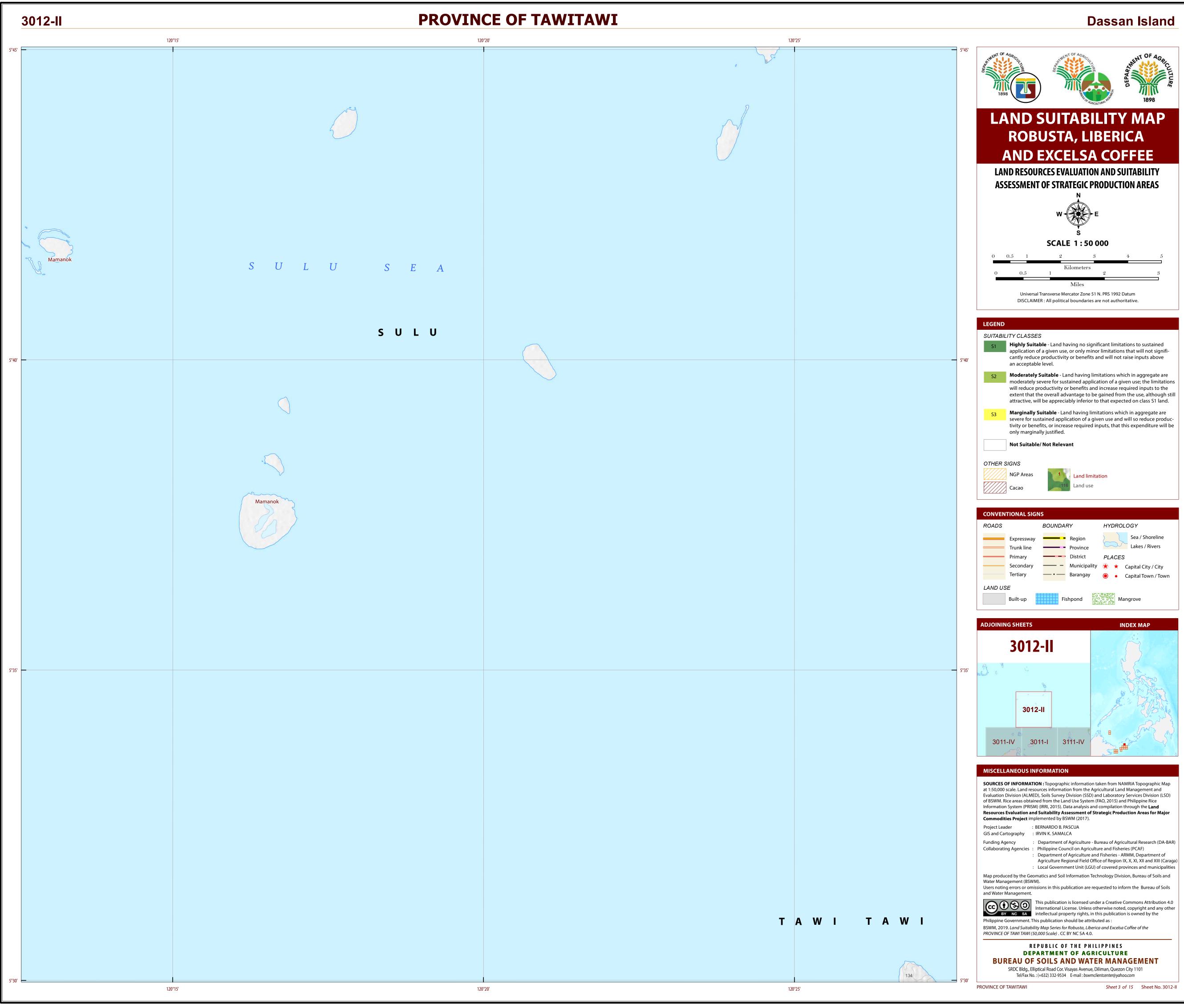


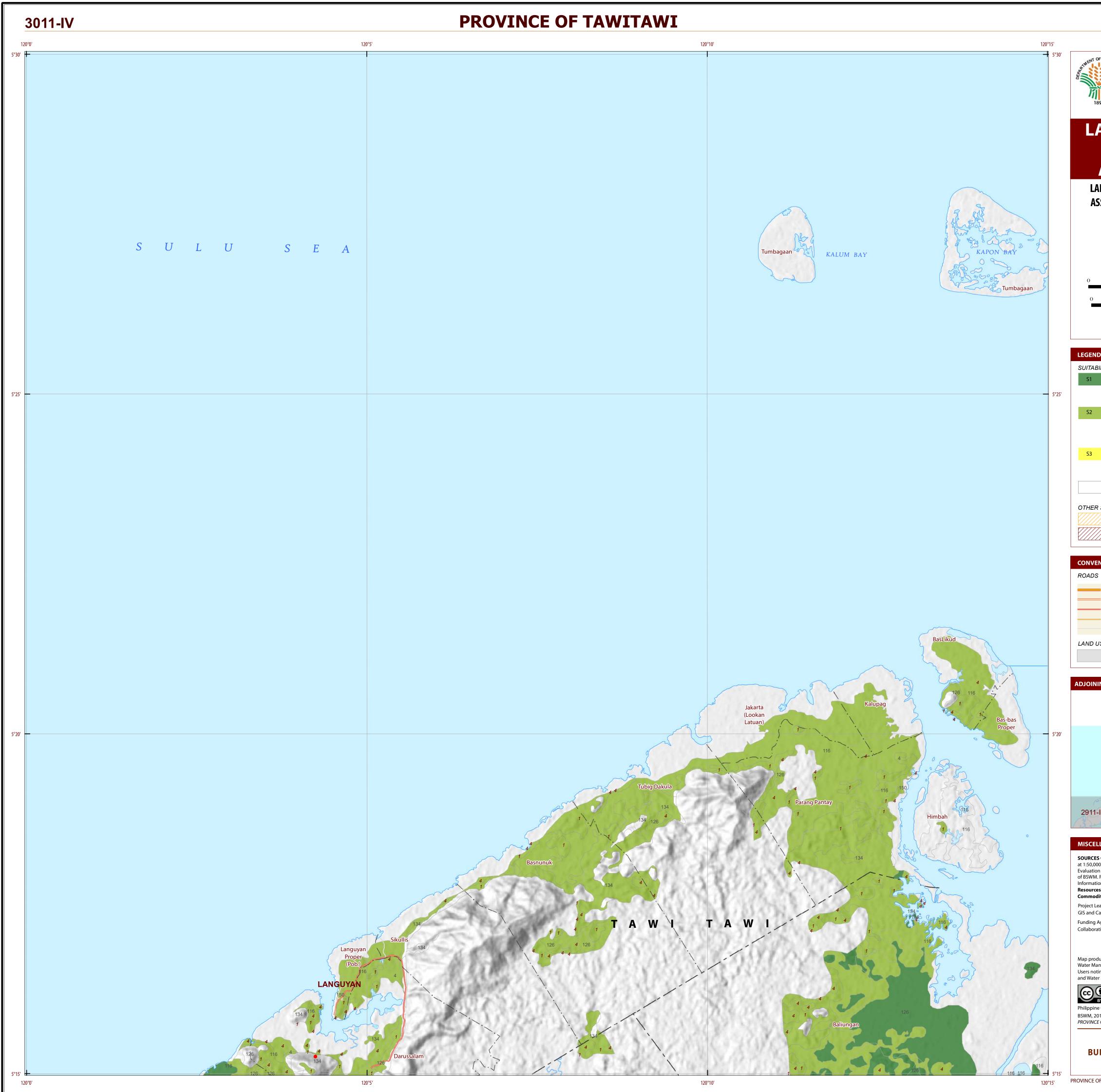
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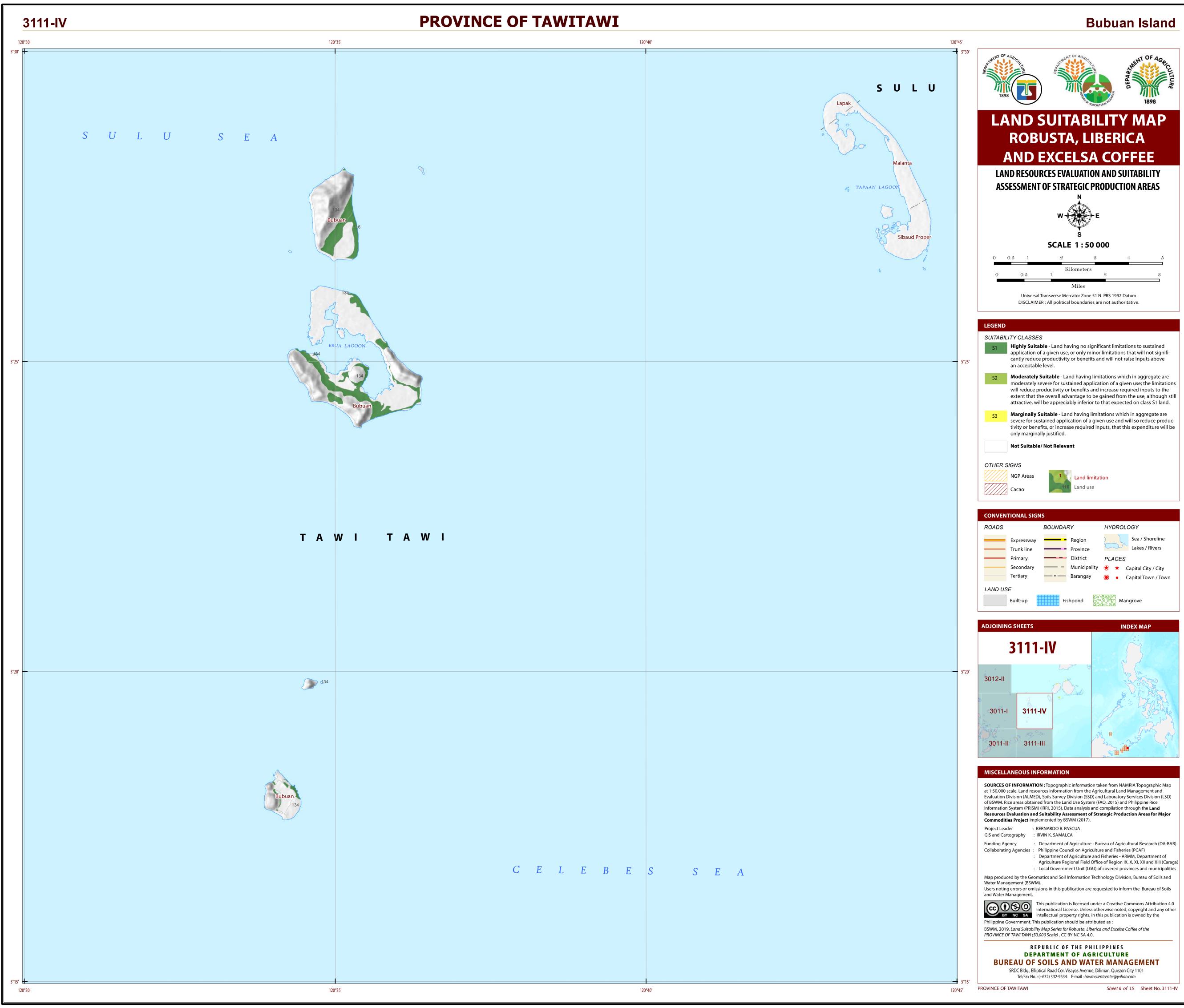


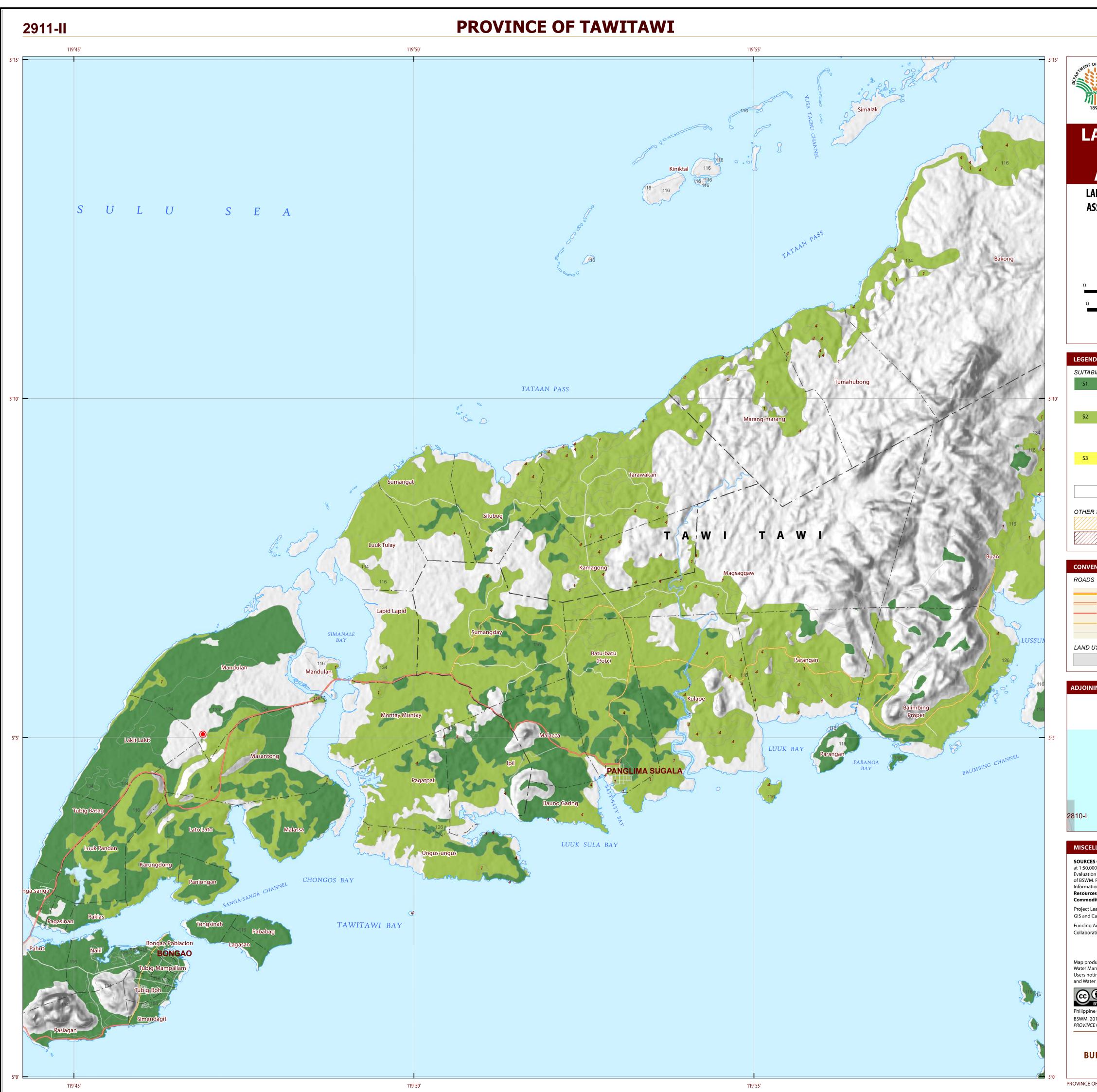
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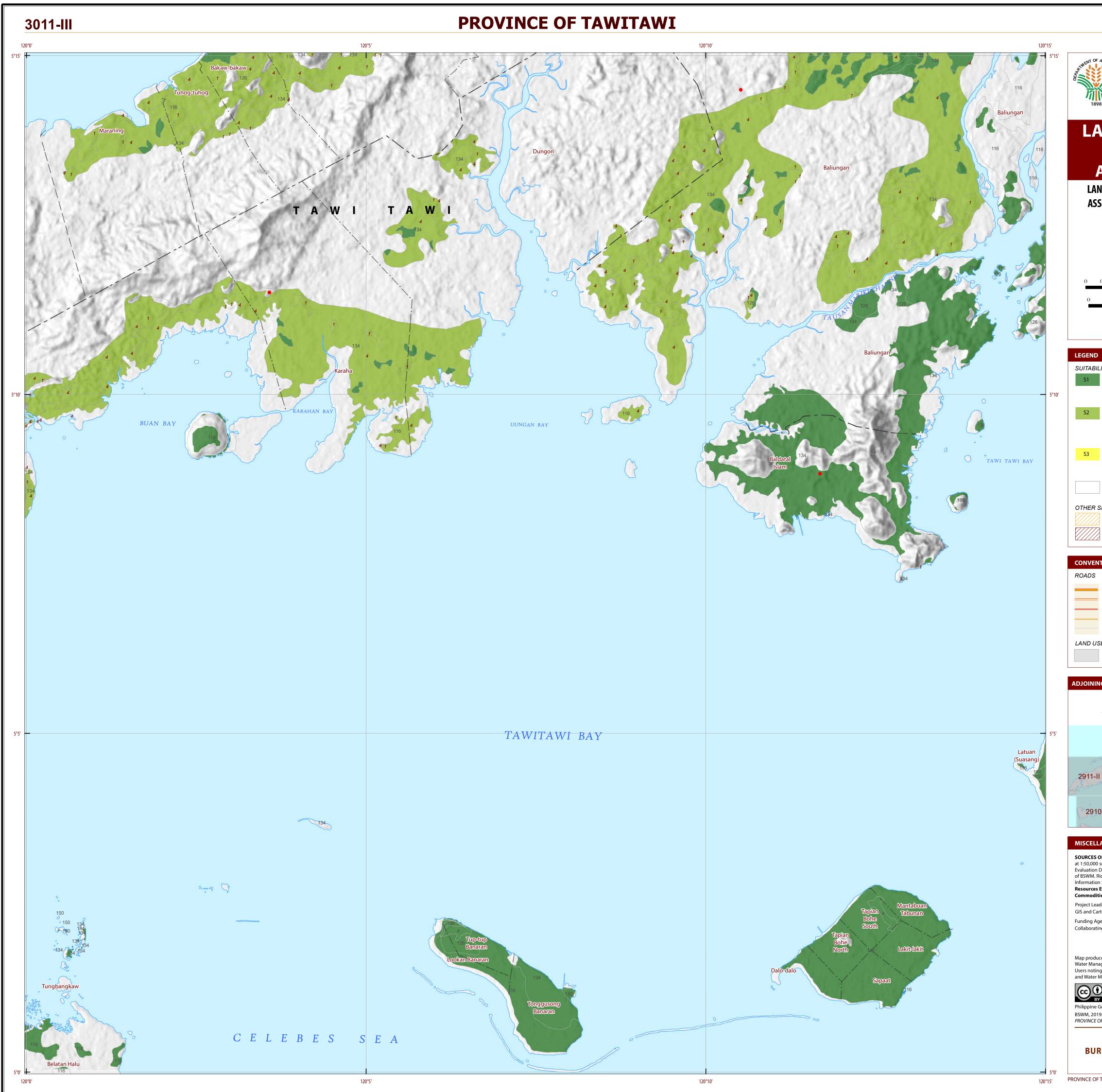
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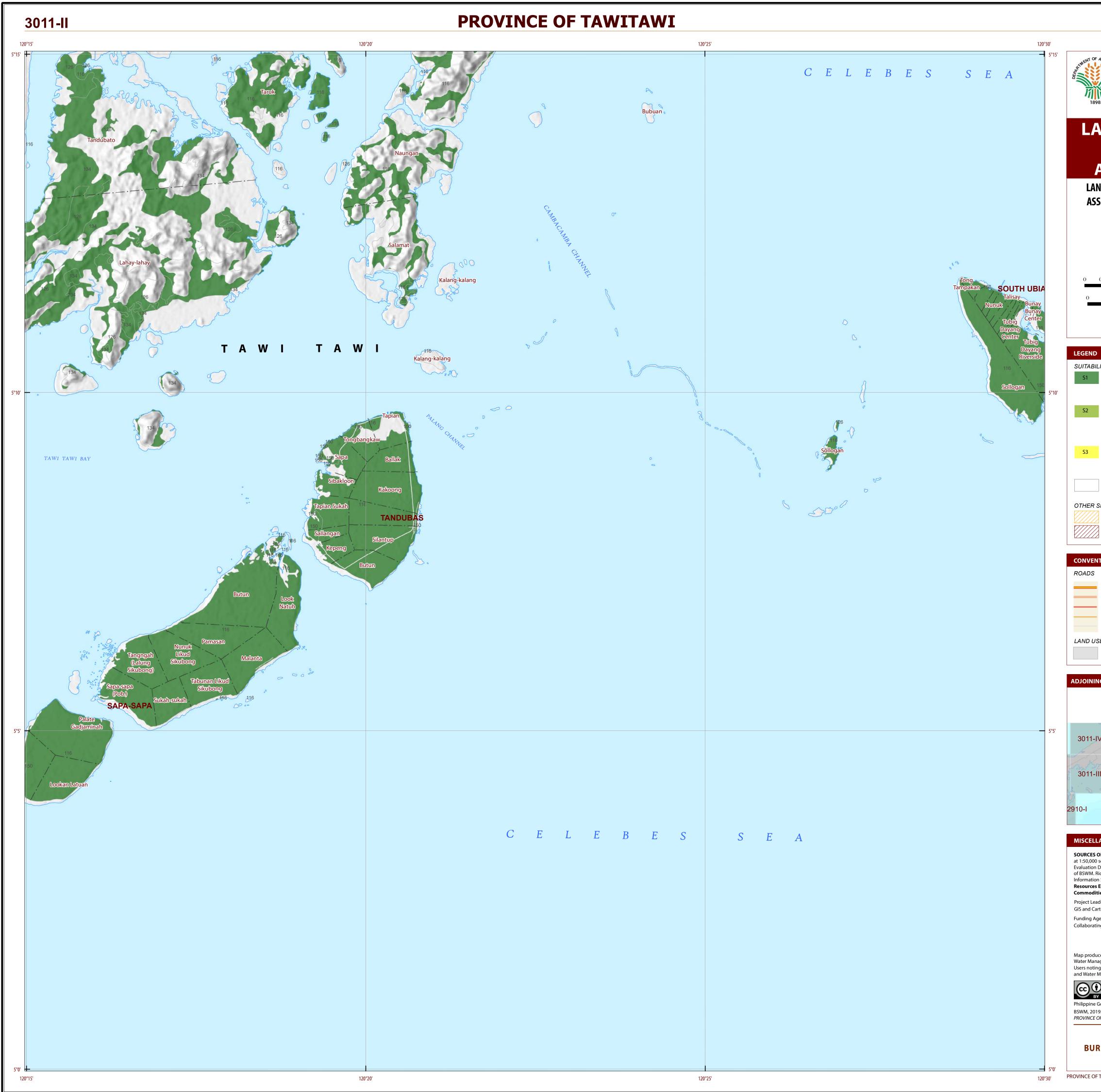




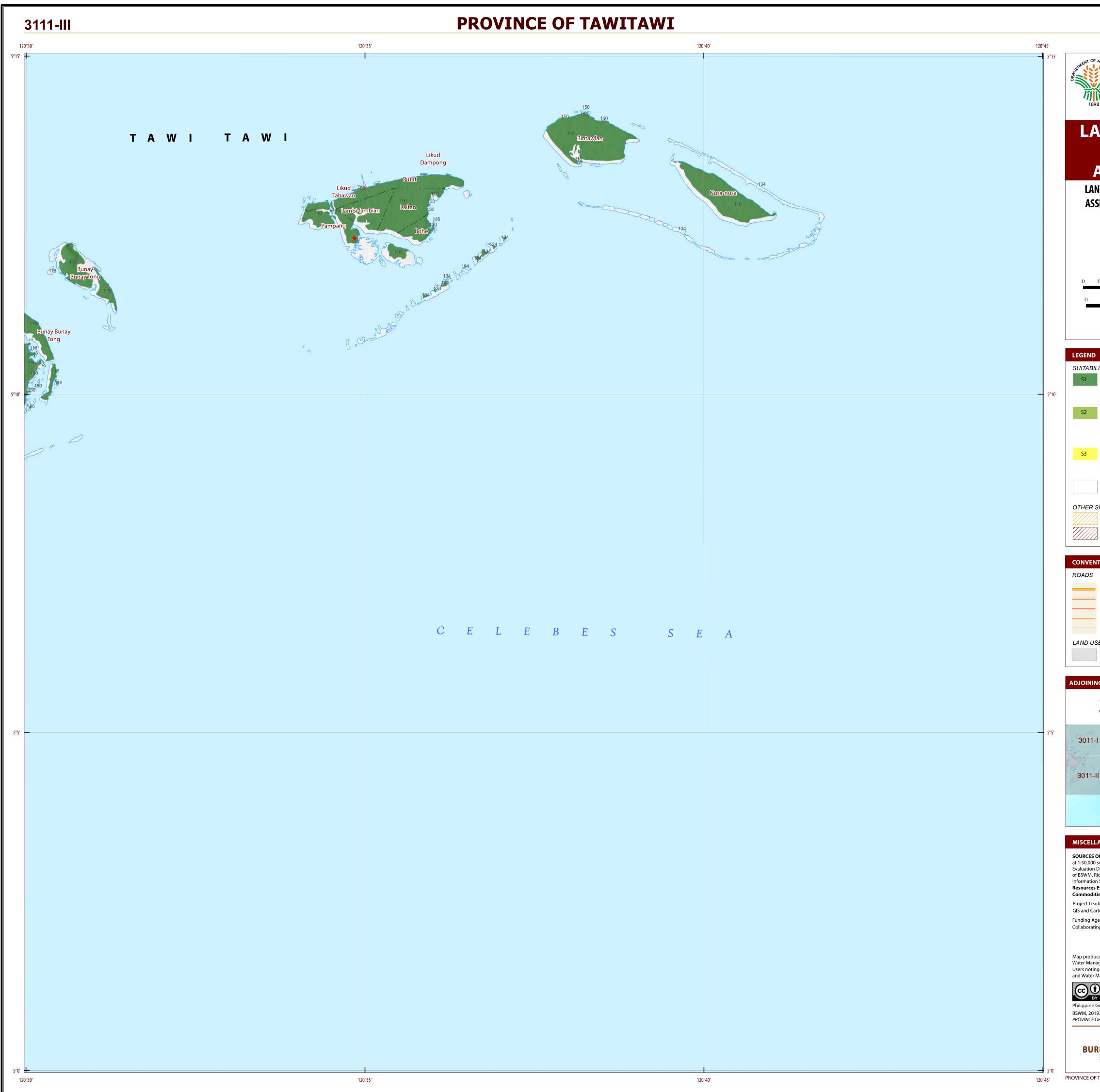
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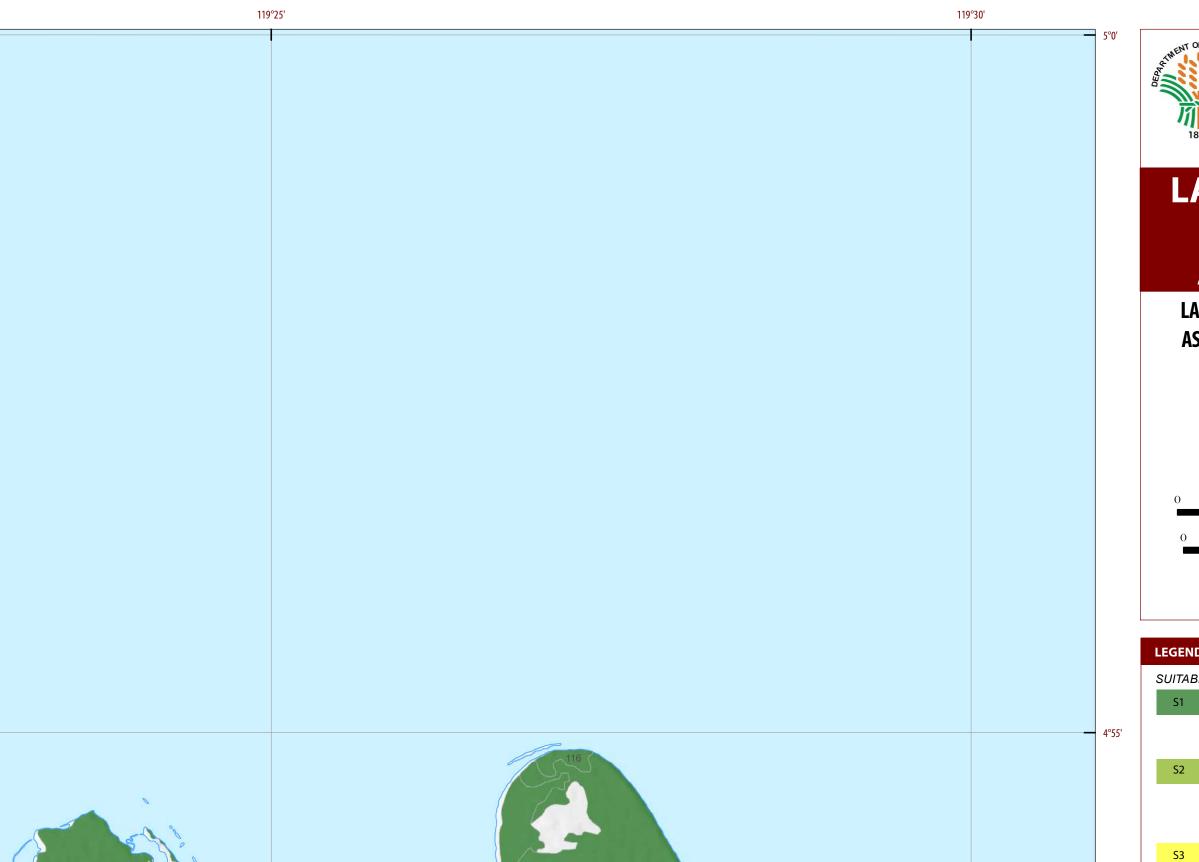
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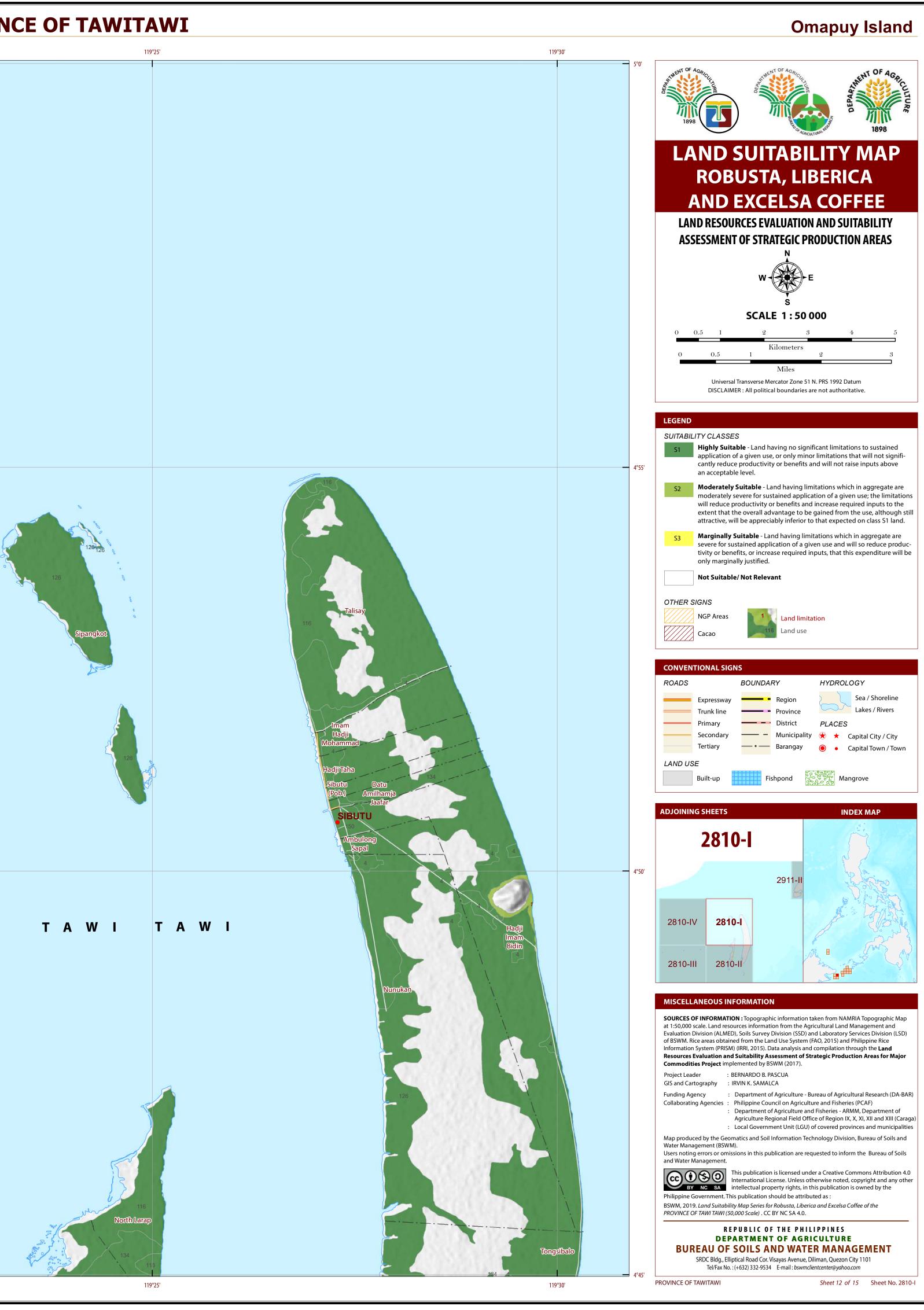
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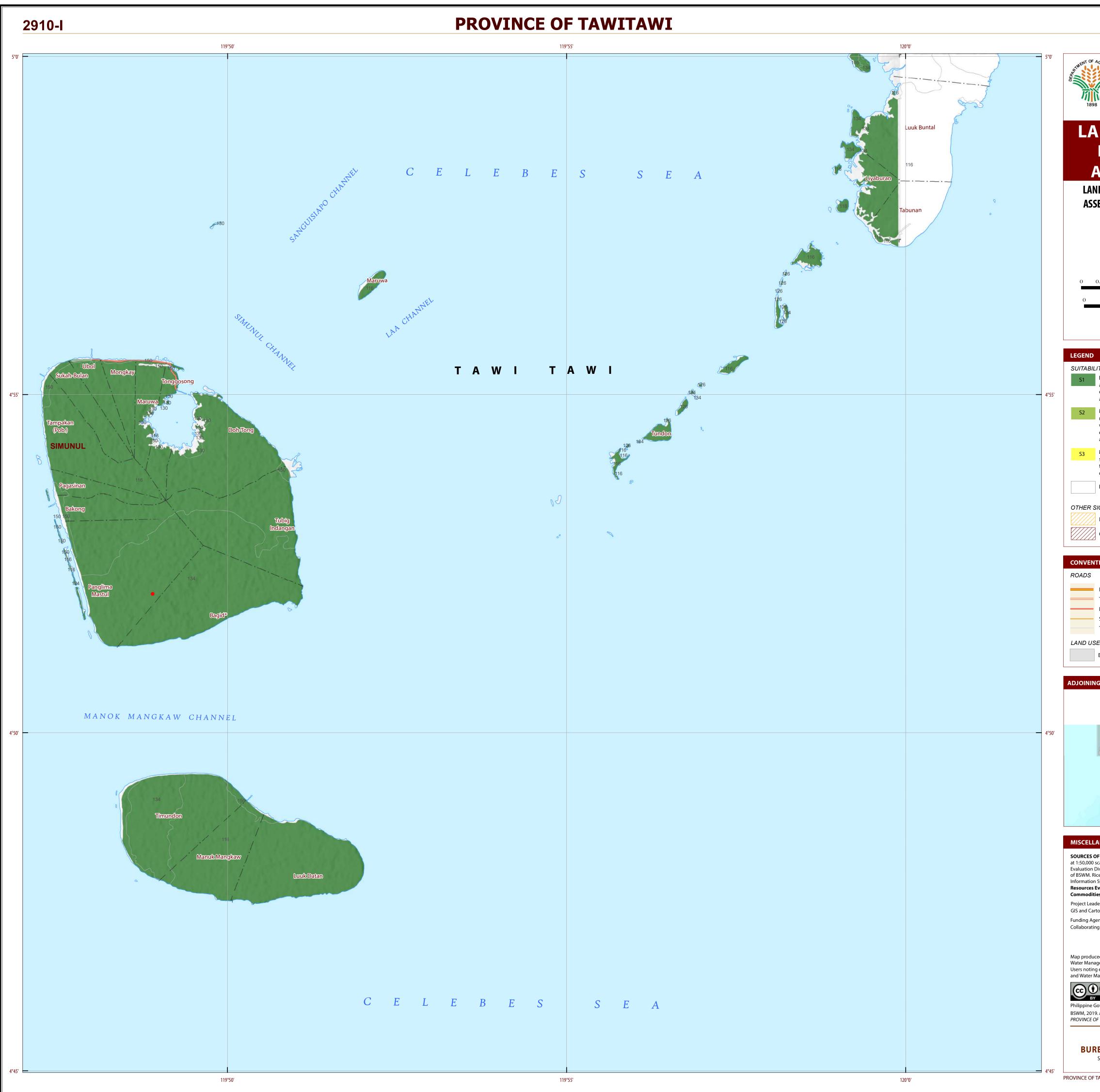
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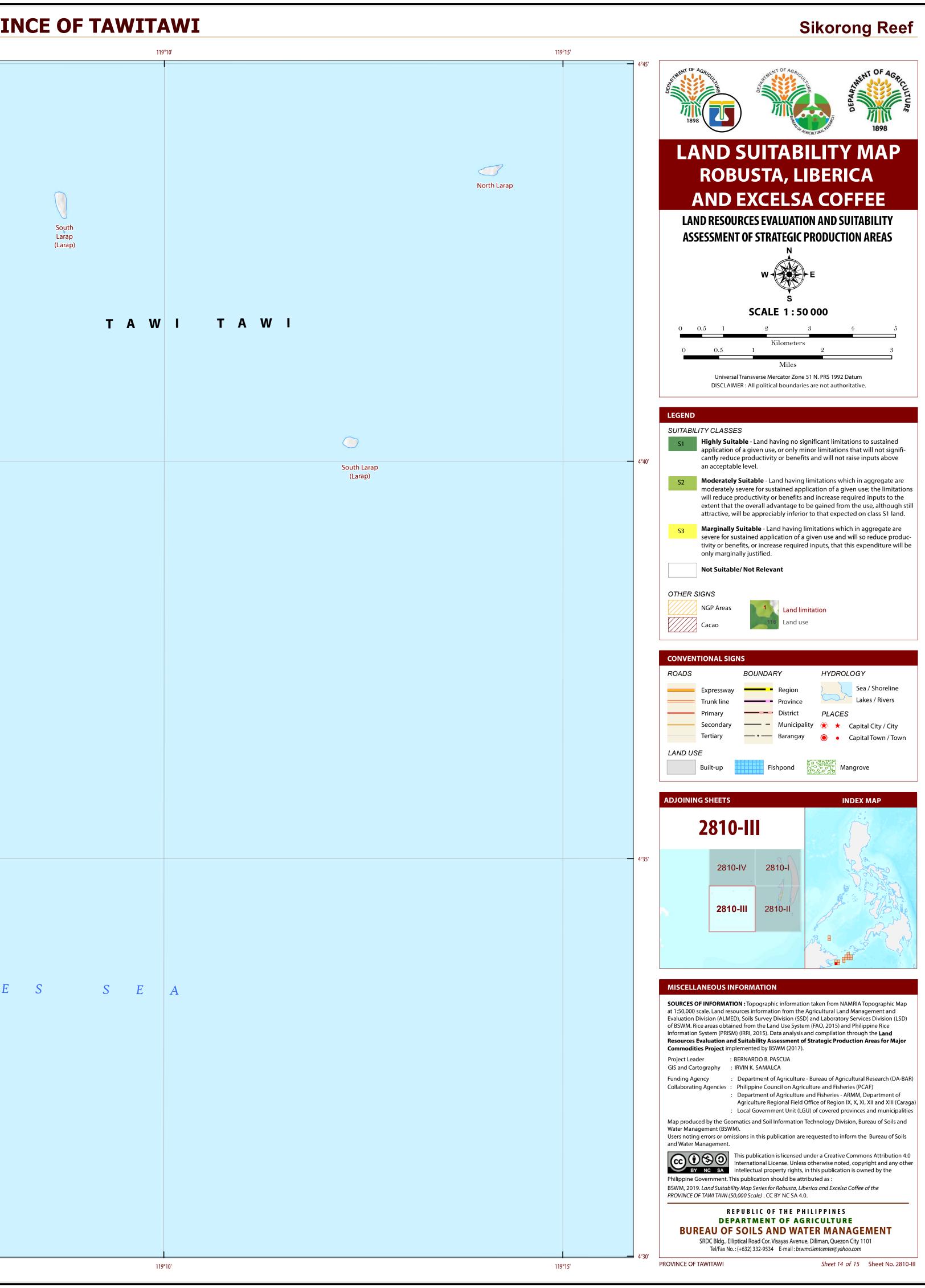




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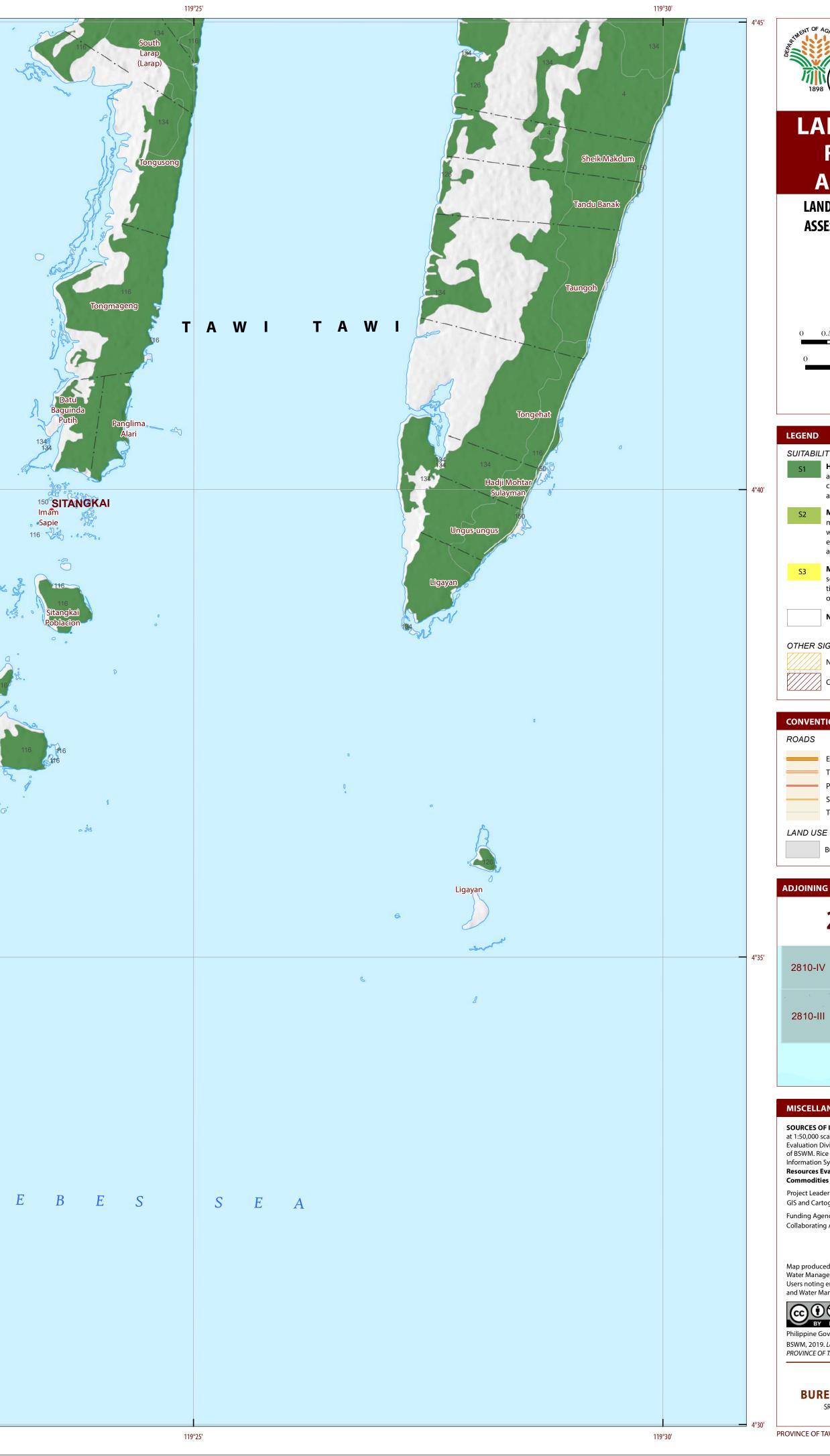
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