

PROVINCE OF DINAGAT ISLANDS





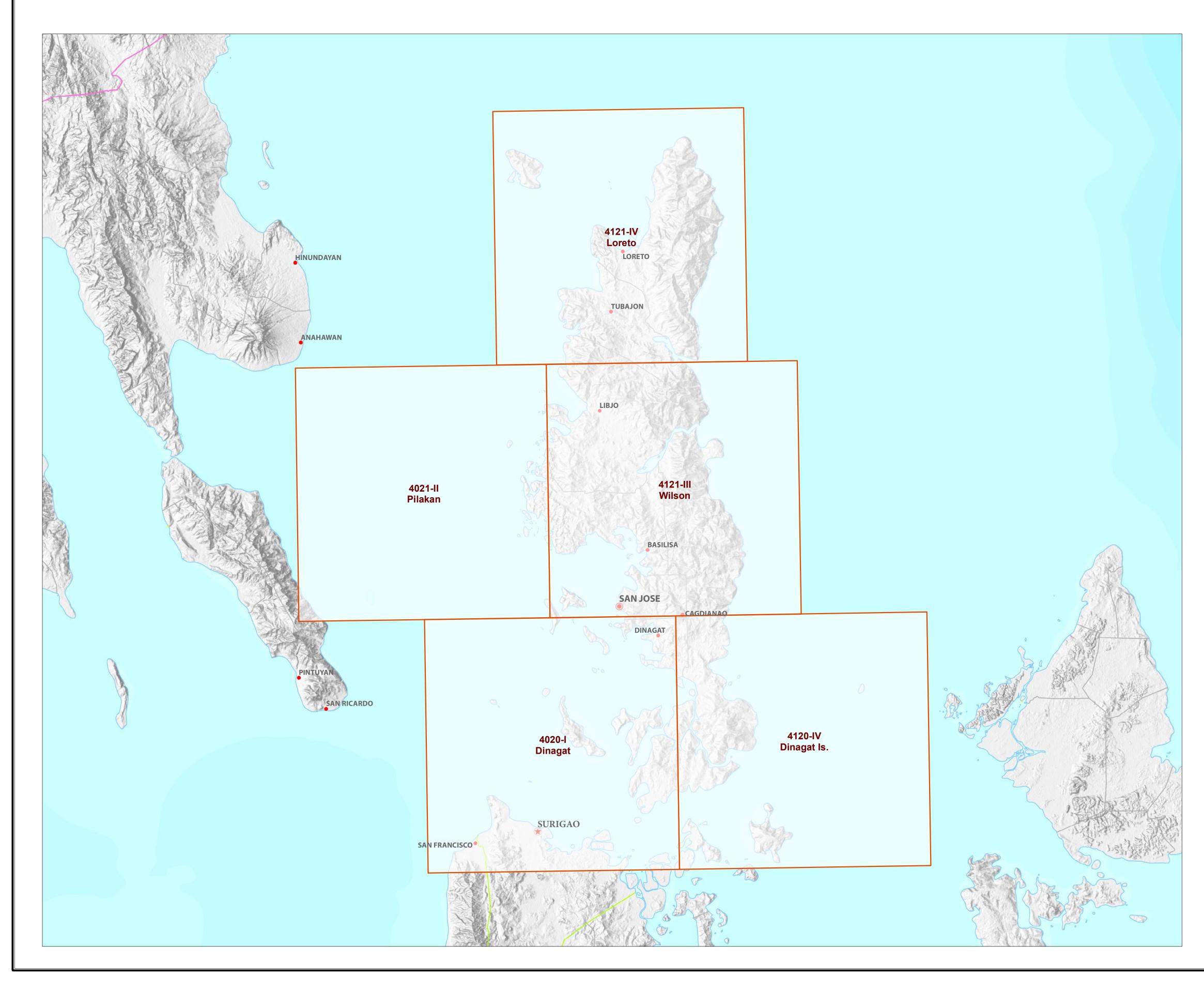
LAND SUITABILITY MAP

ARABICA COFFEE

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

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 DINAGAT ISLANDS



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Land suitabili	tyinformation produced by the Bureau of Soils and Water

Management (BSWM) through the Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project duly supported by the Philippine Council on Agriculture and Fisheries (PCAF) and funded by the Bureau of Agricultural Research (BAR). Map produced by the Geomatics and Soil Information Technology

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LAND SUITABILITY MAP FOR **ARABICA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **DINAGAT ISLAND, REGION XIII**

EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY

					EXPANSION AREA (Ha)					CONFLICT RESOLUTION AREA (Ha)				TOTAL						
MUNICIPALITY EXISTING COFFEE (Ha)		EXISTING COFFEE (Ha)		EXISTING COFFEE (Ha)		EXISTING COFFEE (Ha) EXISTING AREA (Ha)		Coc	onut		bland, naged*	Grass unmar	-	Со	rn	Oil J	palm	Other	crops	POTENTIAL EXPANSION AREA (Ha)
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (IIA)			
BASILISA	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
CAGDIANAO	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
DINAGAT	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
LIBJO	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
LORETO	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
SAN JOSE	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-			
TUBAJON	_		-	-	-	-	-	-	-	_	-	-	-	-	_	_	-			
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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

6 El3-Sh2

8 El3-Tc

10 T2-El3

7 El3-Sh2-Rc2

9 T2-El2-E3-Rc3

16 T2-El3-F3-D2

18 T3-El3

19 T3-El3-E3

17 T3-El2-E3-Sh2-Rc3

20 T3-El3-E3-Sh2-Rc3

AGRONOMIC REOLUREMENT OF ARABICA COFFEE PRODUCTION

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)	ANNUAI RAINFAL (mm)	
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	1000-2000	2001-450	0 I, III, IV
Coffee (Arabica)	S2	8 - 30	30 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1000 2000-2500	1000-200	0 I, II
	S3	>30	<30	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	<500 >2500	<1000 >4500	
SLOPE (%)			SOIL DRAIN	NAGE		SOIL REACTIO	N (pH)		SOIL TEXT	URE			
) - 3 - lev	vel to gently sloping	g	ED -	excessively drained		< 4.5 - ext	remely acid		Coarse			Fine	
8 - 8 - ger	ntly sloping to und	ulating	WD -	well drained		4.5 - 5.0 - ver	ry strongly acid		S -	- sand		SC	- sandy clay
3 - 18 - un	dulating to rolling	0	MWD -	moderately well drain	ed	5.1 - 5.5 - str	ongly acid		LS -	- loamy sand		SiC	- silty clay
	lling to moderately			somewhat poorly drai			edium acid			- coarse sandy loam			- clay
30 - 50 - ste	•	1		poorly drained			ghtly acid			- sandy loam			- heavy clay
	ry steep			very poorly drained		6.6 - 7.2 - neu			Medium			-	
	J Steep		112	very poorty aramou			ldly alkaline			- fine sandy loam			
SOIL DEPTH (d	cm)		SURFACE IN	MPEDIMENT			derately alkaline			- loam			
-	ry shallow		ROCKOUTC				ongly alkaline			- silt loam			
	allow			none - few		> 0.5 - SU	oligiy alkalille			- clay loam			
										•			
	oderately deep ep to very deep			common many						- silty clay loam - sandy clay loam			
.AND LII	MITATION	S DESCI	RIPTION AN	ND COMBINA	TIONS								
ELEVATION			SOIL DRAI	NAGE		S	OIL DEPTH			SOIL EROSION			
cl2 - 500 - 10	000m or 2000 - 250	00m	D2 - Sor	newhat poorly drained	to poorly drained	S	h2 - Shallow to	moderately deep ((30 - 100cm)	E2 - Modera	te erosion		
l3 - < 500m	or > 2500m		D3 - Ver	y poorly drained or ex	cessively drained	S	h3 - Very shallo	w (< 30cm)		E3 - Severe	erosion		
	RAPHV		SOIL TEXT	URE		R	ROCK OUTCROPS			FLOODING			
SLOPE/TOPOG			JULLIAI	UILL									
•	ting to moderately	steep		arse texture		R	c2 - Common			F2 - Modera	te seasonal flood	ling	
2 - Undulat		steep					c2 - Common c3 - Many				te seasonal flood seasonal flooding	•	
2 - Undulat 3 - Steep to	ing to moderately very steep	-			ION							•	
2 - Undulat 3 - Steep to CODE LII	ing to moderately very steep MITATION	CODE I	Tc - Coa	CODE LIMITAT		R CODE	LANDUSE					•	
2 - Undulat 3 - Steep to CODE LIII 1 El2-Sh2	ing to moderately very steep MITATION	CODE I 11 T2-EI	Tc - Coa IMITATION 3-E2	CODELIMITAT21T3-El3-F3-D2		CODE 4 Corn	c3 - Many LANDUSE					•	
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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.

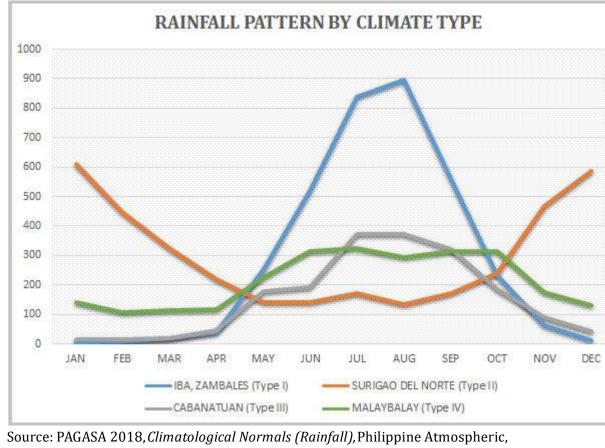
Moderately Suitable (S2)

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

- 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 of Dinagat Island is classified as climatic Type II.



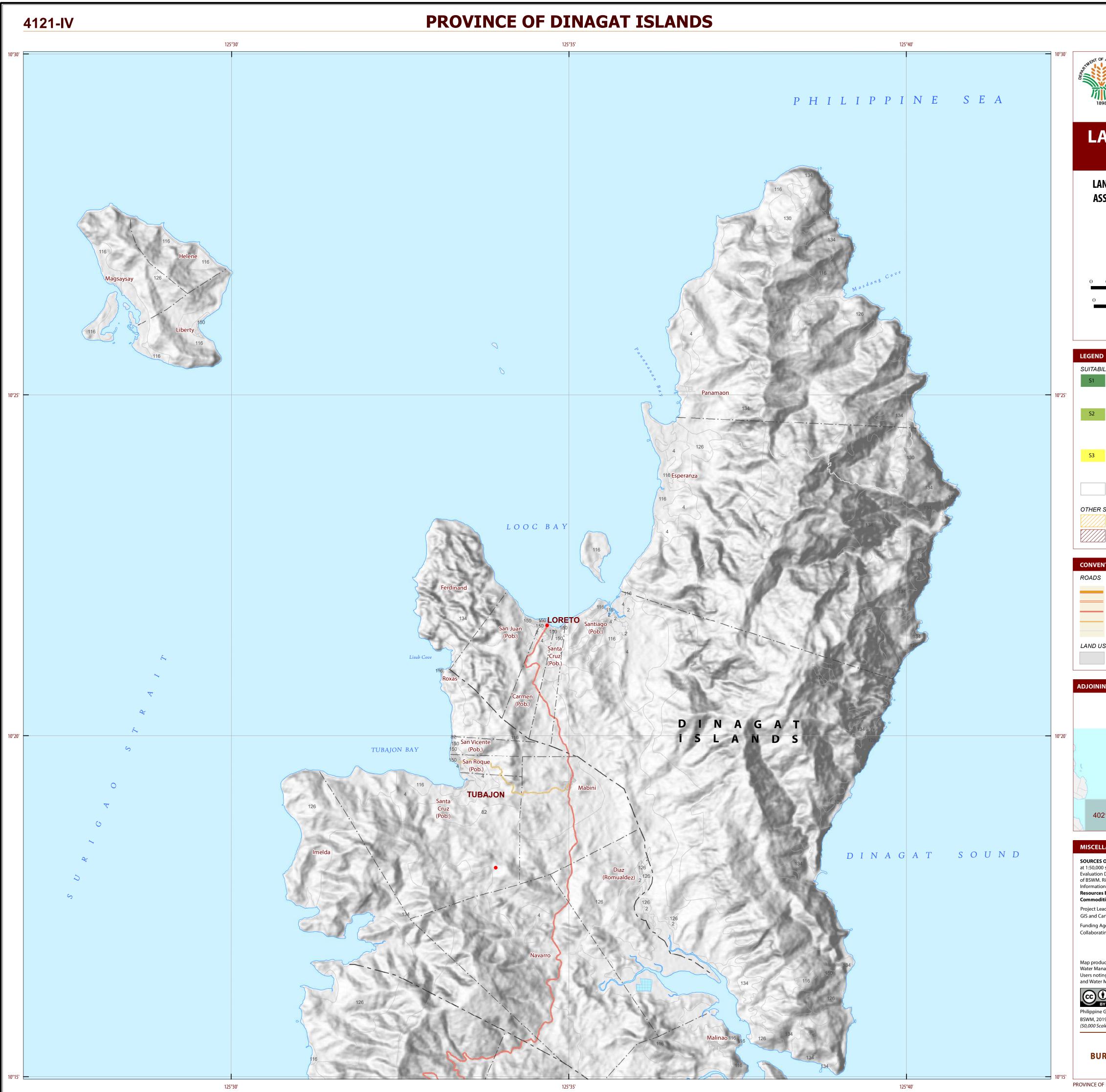
Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>.

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.

- **TYPE I** : Two pronouced season, dry from November to April and **TYPE II** : No dry season with a very pronounced maximum rain 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.

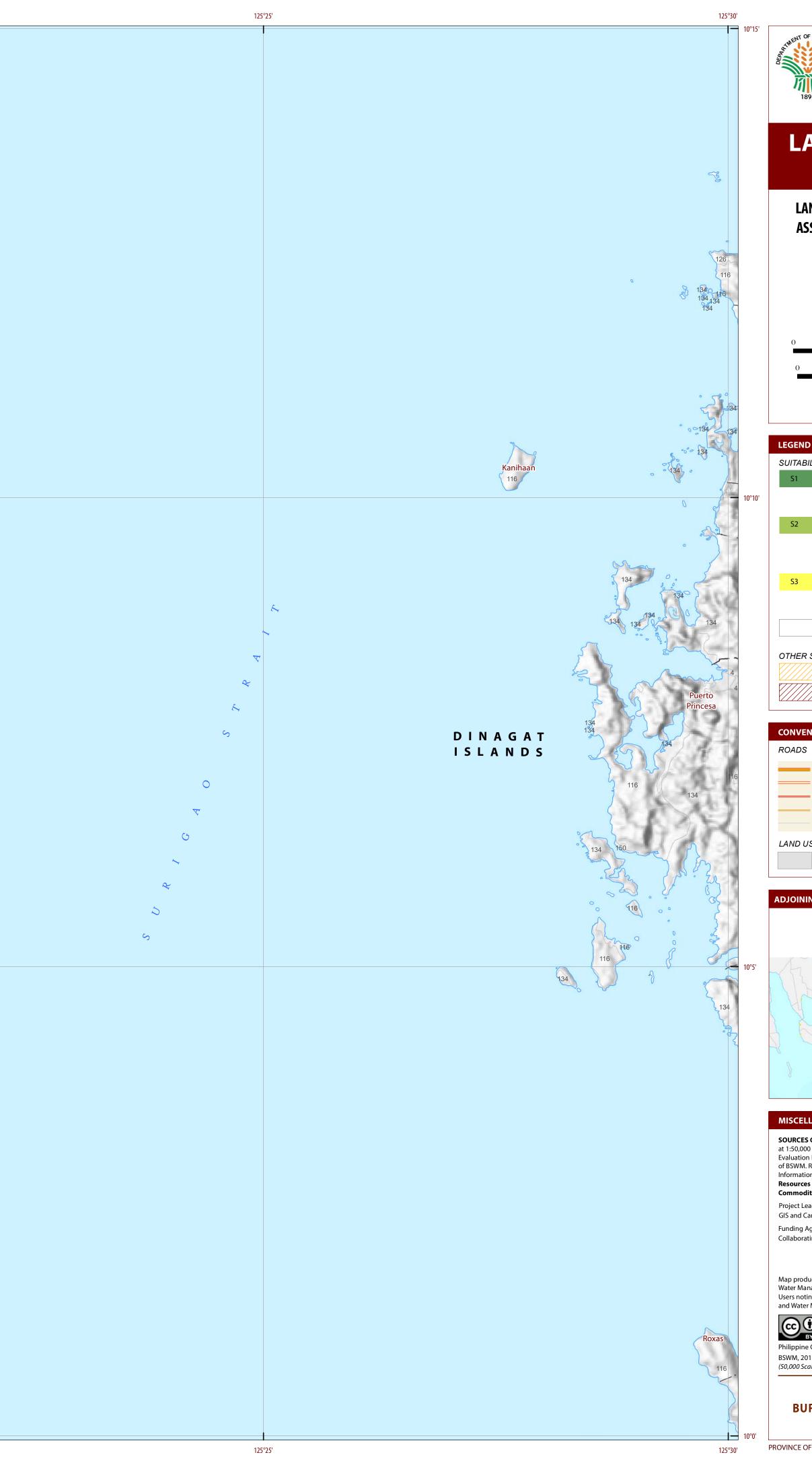




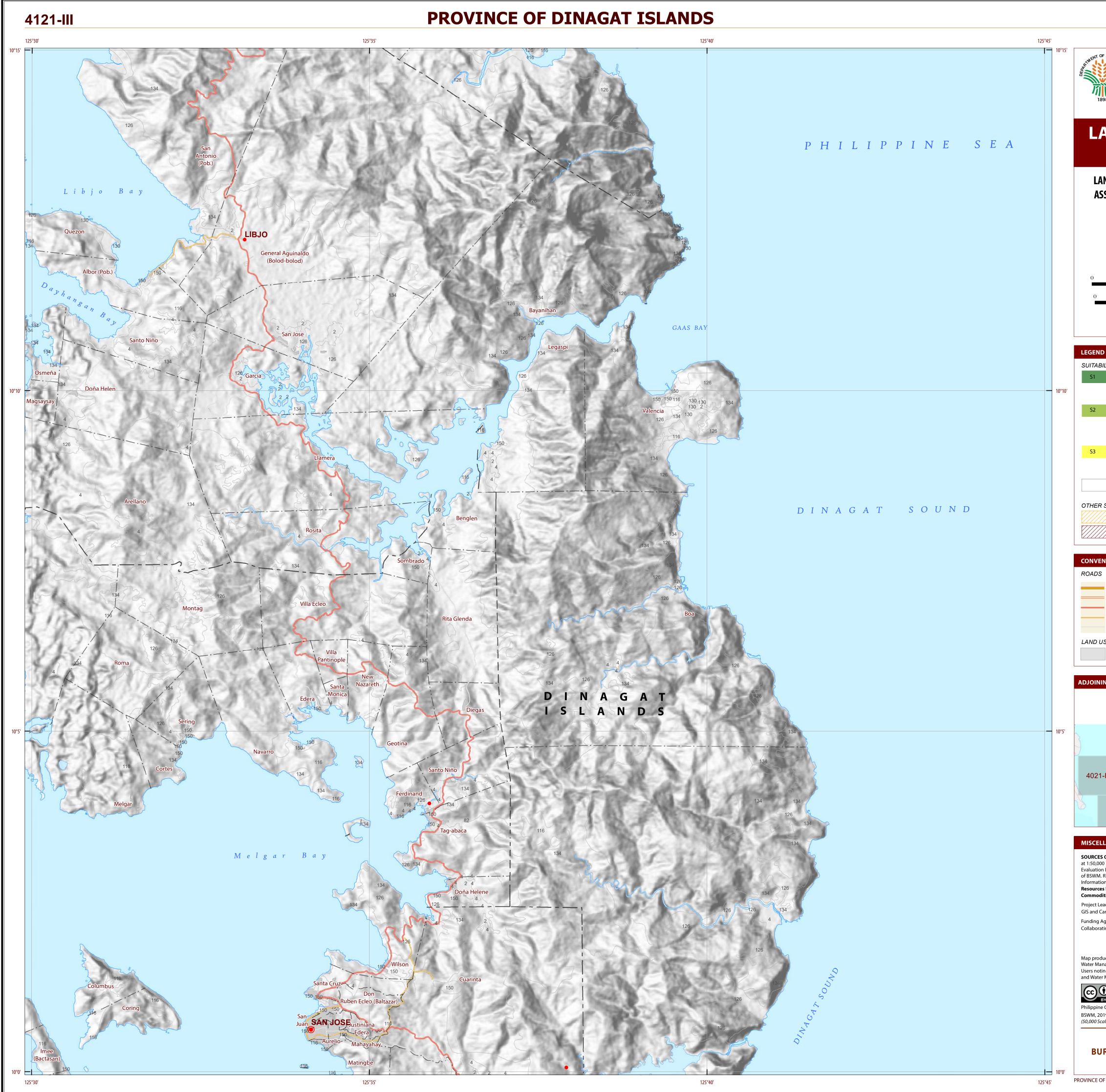
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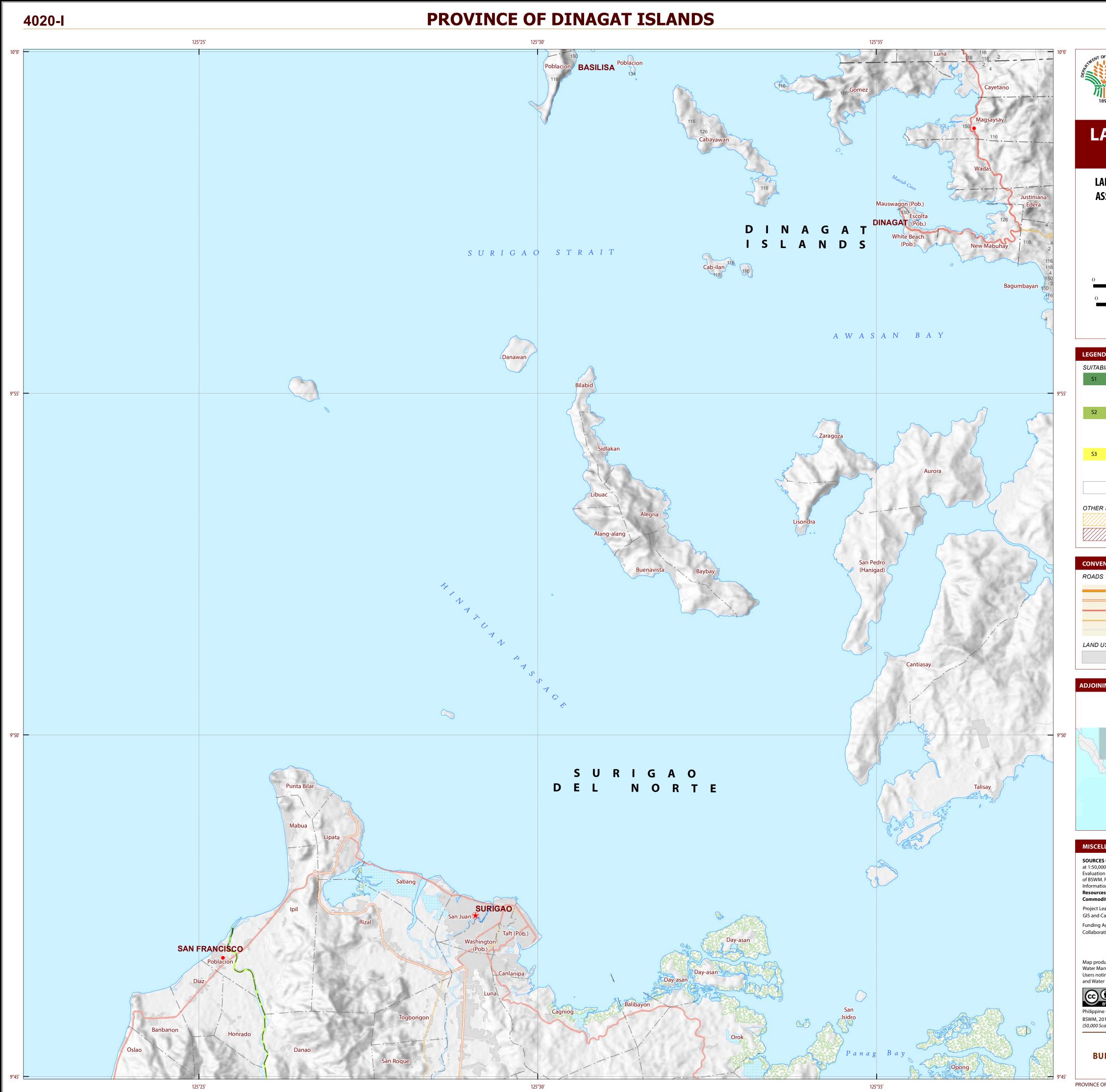




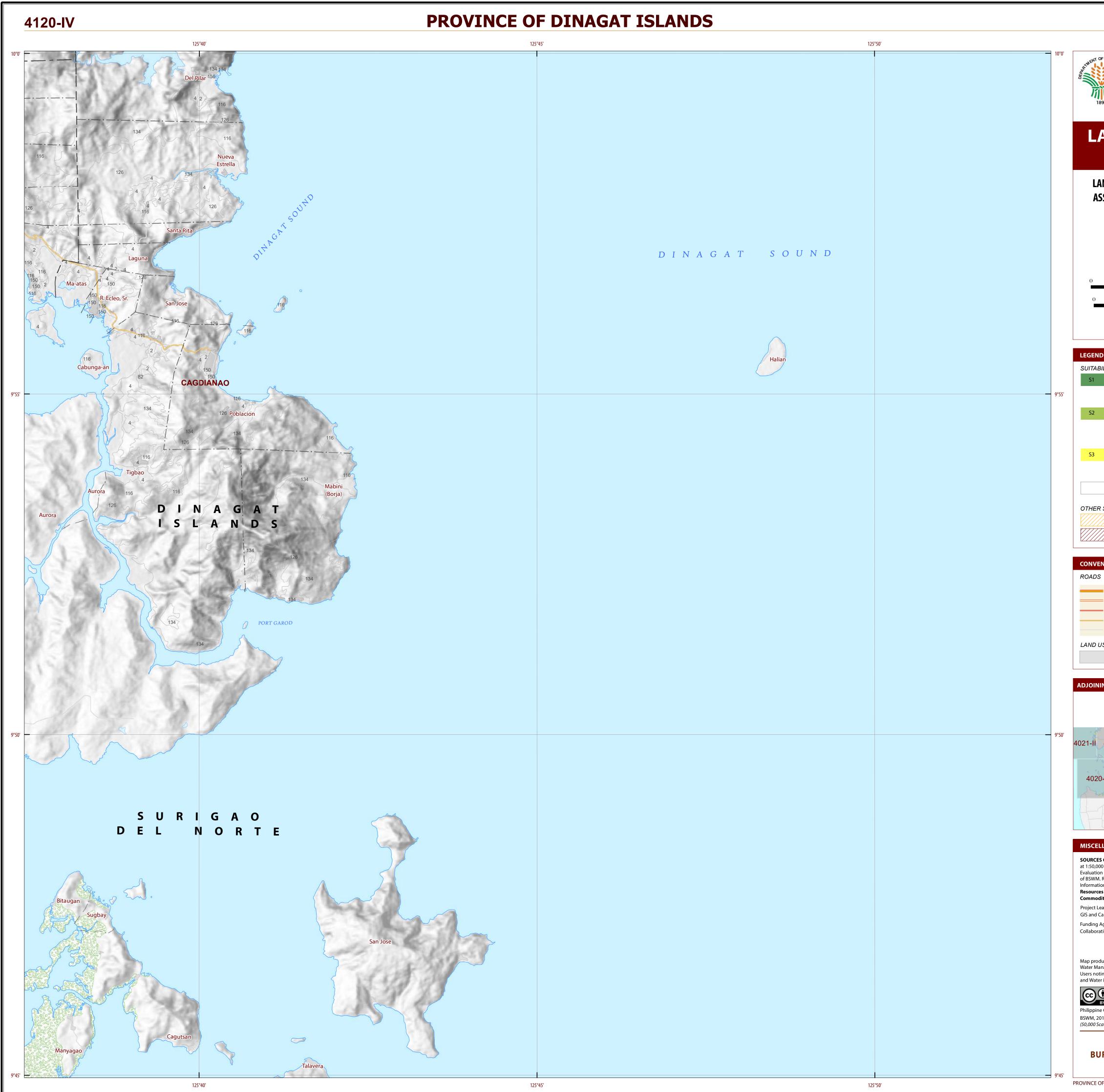
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