

PROVINCE OF DINAGAT ISLANDS

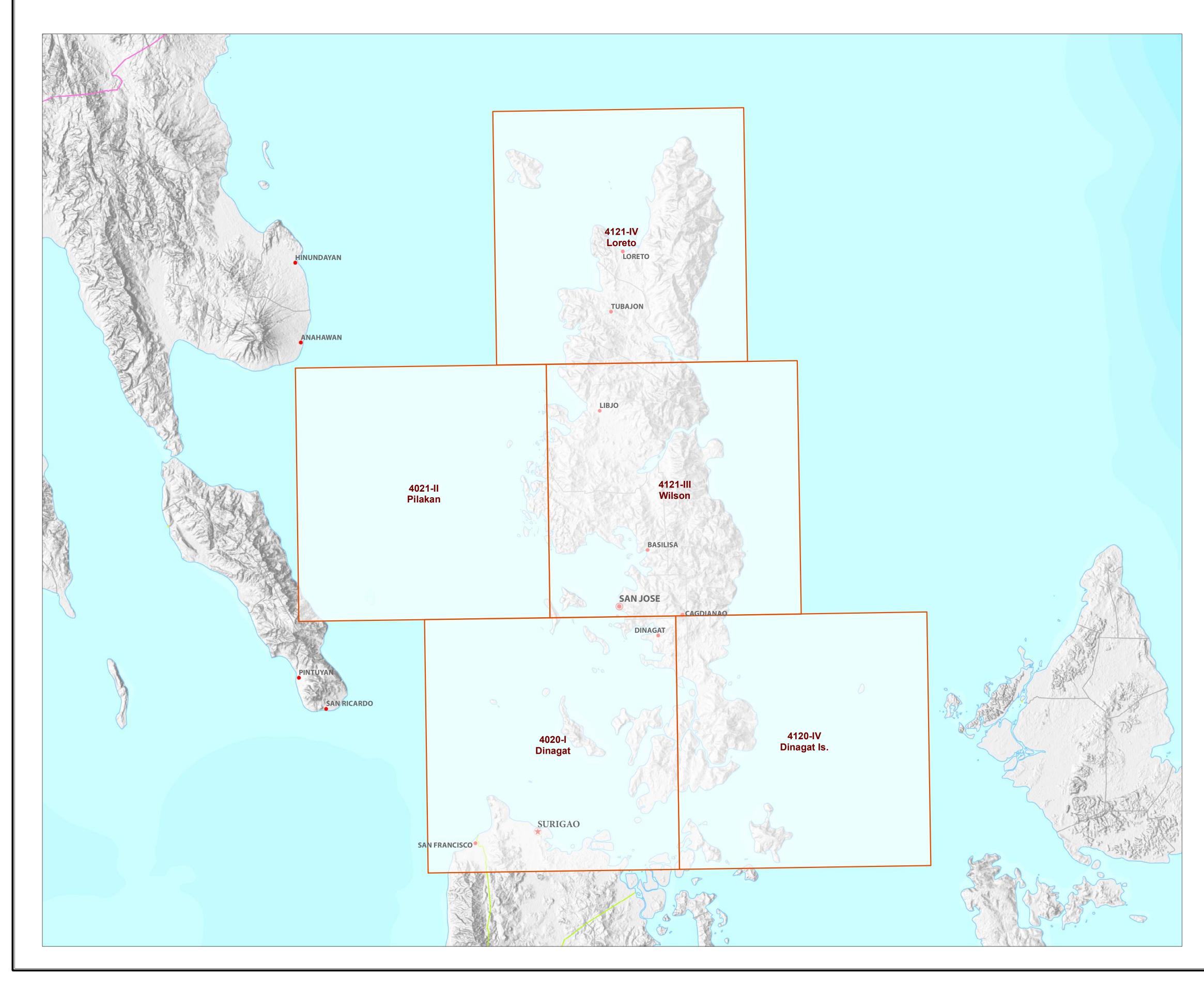
LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**



LAND SUITABILITY MAP

CACAO

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF DINAGAT ISLANDS



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MISCE	LLANEOUS INFORMATION
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

Division, Bureau of Soils and Water Management (BSWM). Users noting errors or omissions in this publication are requested to inform the Bureau of Soils and Water Management.

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE BUREAU OF SOILS AND WATER MANAGEMENT SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Philippines Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@yahoo.com

LAND SUITABILITY MAP FOR CACAO

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

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

					EXPANSION AREA (Ha)						CONFLICT RESOLUTION AREA (Ha)					TOTAL	
MUNICIPALITY	EXISTING CACAO (Ha)		TOTAL EXISTING AREA (Ha)	Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Paddy rice, non-irrigated		Other crops		POTENTIAL EXPANSION	
	S1	S2	S 3		S1	S2	S1	S2	S1	S 2	S1	S2	S1	S2	S1	S 2	AREA (Ha)
BASILISA	-	-	1	1	325	432	266	266	205	1,092	63	80	-	-	-	-	2,729
CAGDIANAO	-	-	1	1	505	153	185	281	532	950	157	171	-	-	-	-	2,933
DINAGAT	-	-	-	-	757	156	8	1	238	28	63	33	-	-	-	-	1,282
LIBJO	-	-	-	-	306	128	138	933	214	2,636	94	375	-	-	-	-	4,824
LORETO	-	-	-	-	417	550	73	373	132	708	218	289	-	-	-	-	2,760
SAN JOSE	-	-	-	-	277	230	2	99	7	68	15	26	-	-	-	-	724
TUBAJON	1	2	1	3	111	473	20	132	185	1,724	49	89	-	-	-	-	2,782
TOTAL	1	2	2	4	2,696	2,121	693	2,084	1,512	7,208	658	1,063	-	-	-	-	18,035

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

A CRONIC DECLUREMENT OF CACAO DRODUCTION

10 T2

20 T3

UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS		ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIO TYPE
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-sligh	nt 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	moderate	e common	1000-1500	1000-2000	I, II
	S3	>30	<50	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500	
SLOPE (%)			SOIL DRAINA	GE		SOIL REACTION	(pH)		SOIL TEXTU	JRE			
0-3 - lev	el to gently slopin	g	ED - e	xcessively drained		< 4.5 - extre	mely acid		Coarse		Fi	ine	
3 - 8 - ger	ntly sloping to und	ulating	WD - v	vell drained		4.5 - 5.0 - very	strongly acid		S -	sand	SC	- sandy	clay
8 - 18 - une	dulating to rolling		MWD - n	noderately well drained	l	5.1 - 5.5 - stron	gly acid		LS -	loamy sand	Si	C - silty cl	ay
18 - 30 - rol	ling to moderately	r steep	SPD - s	omewhat poorly draine	ed	5.6 - 6.0 - medi	um acid		CSL -	coarse sandy loam	C	- clay	
30 - 50 - ste	ер		PD - p	oorly drained		6.1 - 6.5 - slight	tly acid		SL -	sandy loam	H	C - heavy	clay
> 50 - vei	ry steep		VPD - v	ery poorly drained		6.6 - 7.2 - neutr	ral		Medium				
						7.3 - 7.8 - mildl	y alkaline		FSL -	fine sandy loam			
SOIL DEPTH (a	cm)		SURFACE IM	PEDIMENT		7.9 - 8.4 - mode	erately alkaline		L -	loam			
0 - 30 - vei	ry shallow		ROCK OUTCR	OPS		> 8.5 - stron	gly alkaline		SiL -	silt loam			
	allow		< 10% - n	one - few						clay loam			
50 - 100 - mo	derately deep		10 - 30% - c	ommon					SiCL -	silty clay loam			
>100 - dee	ep to very deep		> 30% - n	nany					SCL -	sandy clay loam			
ELEVATION El2 - 1000m ·	- 1500m	S DESCRI	SOIL DRAIN D2 - Som	ewhat poorly drained to	o poorly drained	SO Sh2 Sh3		leep (50 - 100cm 7 to shallow (< 50		SOIL EROSION E2 - Moderate E3 - Severe ero			
ELEVATION El2 - 1000m · El3 - > 1500n	- 1500m n	S DESCRI	SOIL DRAIN D2 - Som D3 - Very	AGE ewhat poorly drained to poorly drained or exce	o poorly drained	Sh2 Sh3	2 - Moderately of3 - Very shallow	leep (50 - 100cm v to shallow (< 50		E2 - Moderate E3 - Severe ero			
ELEVATION El2 - 1000m · El3 - > 1500n SLOPE/TOPOG	- 1500m n GRAPHY		SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU	AGE ewhat poorly drained to poorly drained or exce IRE	o poorly drained	Sh2 Sh3 R0	 2 - Moderately of 3 - Very shallow CK OUTCROPS 			E2 - Moderate E3 - Severe erc FLOODING	osion		
ELEVATION El2 - 1000m · El3 - > 1500n SLOPE/TOPOG F2 - Undulat	- 1500m n		SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU	AGE ewhat poorly drained to poorly drained or exce	o poorly drained	Sh2 Sh3	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate			
ELEVATION El2 - 1000m · El3 - > 1500m SLOPE/TOPOG Γ2 - Undulat Γ3 - Steep to	- 1500m n GRAPHY ting to moderately very steep		SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar	AGE ewhat poorly drained to poorly drained or exce IRE se texture	o poorly drained	Sh2 Sh3 RO Rc2 Rc3	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m · El3 - > 1500m SLOPE/TOPOG Γ2 - Undulat Γ3 - Steep to	- 1500m n GRAPHY ting to moderately very steep IITATION CO	steep	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar	AGE ewhat poorly drained to poorly drained or exce IRE se texture	o poorly drained	Sh2 Sh3 RO Rc2 Rc3	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m · El3 - > 1500m · SLOPE/TOPOG F2 - Undulat F3 - Steep to CODE LIM 1 E2 2 E2-Sh2	- 1500m n GRAPHY ing to moderately very steep IITATION CC -Rc2	steep DDE LIMIT	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar ATION CODE 21	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION	o poorly drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m · El3 - > 1500m SLOPE/TOPOG F2 - Undulat F3 - Steep to CODE LIM 1 E2	- 1500m n GRAPHY ing to moderately very steep IITATION CC -Rc2	Steep DDE LIMIT 11 T2-E3	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar ATION CODE 21 3 22	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3	poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m · El3 - > 1500m SLOPE/TOPOG F2 - Undulat F3 - Steep to CODE LIM 1 E2 2 E2-Sh2	- 1500m n GRAPHY ing to moderately very steep IITATION CC -Rc2 -Rc3	Steep DDE LIMIT 11 T2-E3 12 T2-E3-Rc3	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar ATION CODE 21 3 22	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc3	o poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn 82 Cacao	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m - El3 - > 1500m SLOPE/TOPOG $\Gamma 2$ - Undulat $\Gamma 3$ - Steep to CODE LIM 1 E2 2 E2-Sh2 3 E12-E3- 4 E12-Sh2 5 F2-D1	- 1500m n GRAPHY ing to moderately overy steep IITATION CC -Rc2 -Rc3 2-Rc2	Steep DDE LIMIT 11 T2-E3 12 T2-E3-Rci 13 T2-E12-E3 14 T2-F3-D1 15 T3	SOIL DRAIND2- SomD3- VerySOIL TEXTUTc- CoarATIONCODE21322-Rc323	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc3 T3-E13	o poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn 82 Cacao 116 Coconut	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe erc FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION El2 - 1000m · El3 - > 1500m · SLOPE/TOPOG $\Gamma 2$ - Undulat $\Gamma 3$ - Steep to CODE LIM 1 E2 2 E2-Sh2 3 E12-E3- 4 E12-Sh2	- 1500m n GRAPHY ing to moderately very steep HITATION CO -Rc2 - -Rc3 - 2-Rc2 -	Steep DDE LIMIT 11 T2-E3 12 T2-E3-Rci 13 T2-E12-E3 14 T2-F3-D1	SOIL DRAIND2- SomD3- VerySOIL TEXTUTc- CoarATIONCODE21322-Rc323	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc3 T3-E13	o poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn 82 Cacao 116 Coconut 126 Grassland	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe ero FLOODING F2 - Moderate	osion seasonal flooding		
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ELEVATION El2 - 1000m + El3 - > 1500m + SLOPE/TOPOG Γ^2 - Undulat Γ^3 - Steep to CODE LIM 1 E2 2 E2-Sh2 3 E12-E3- 4 E12-Sh2 5 F2-D1 6 F2-Tc	- 1500m n GRAPHY ing to moderately very steep IITATION CC -Rc2 -Rc2 2-Rc2	Steep DDE LIMIT 11 T2-E3 12 T2-E3-Rc. 13 T2-E12-E3 14 T2-F3-D1 15 T3 16 T3-E3	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar ATION CODE 21 3 22 -Rc3 23 24	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc3 T3-E13	o poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn 82 Cacao 116 Coconut 126 Grassland	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe ero FLOODING F2 - Moderate	osion seasonal flooding		
ELEVATION $El2$ - 1000m · $El2$ - 1500m · $El3$ - > 1500m · SLOPE/TOPOG CODE $T2$ - Undulat $T3$ - Steep to $CODE$ LIM 1 E2 2 E2-Sh2 3 E12-E3- 4 E12-Sh2 5 F2-D1 6 F2-Tc 7 F3-D1	- 1500m n GRAPHY ing to moderately very steep IITATION CO -Rc2 -Rc2 -Rc3 2-Rc2	Steep DDE LIMIT 11 T2-E3 12 T2-E3-Rci 13 T2-E12-E3 14 T2-F3-D1 15 T3 16 T3-E3 17 T3-E3-Sh2	SOIL DRAIN D2 - Som D3 - Very SOIL TEXTU Tc - Coar ATION CODE 21 3 22 -Rc3 23 24	AGE ewhat poorly drained to poorly drained or exce IRE se texture LIMITATION T3-E3-Sh3-Rc3 T3-E12-E3-Sh3-Rc3 T3-E13	o poorly drained essively drained	Sh2 Sh3 RO Rc2 Rc3 ODE LA 4 Corn 82 Cacao 116 Coconut 126 Grassland	 2 - Moderately of 3 - Very shallow CK OUTCROPS 2 - Common 3 - Many 			E2 - Moderate E3 - Severe ero FLOODING F2 - Moderate	osion seasonal flooding		

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.

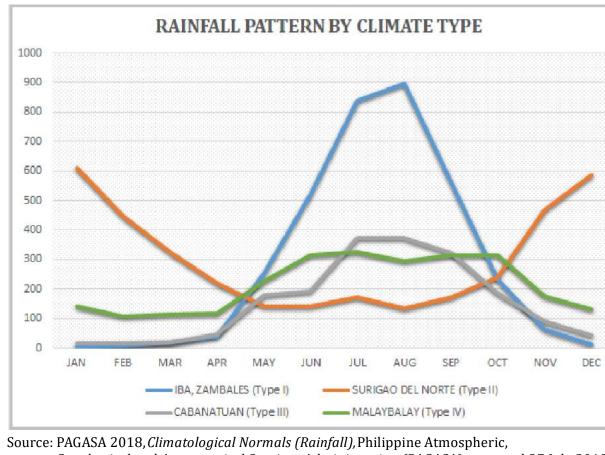
Moderately Suitable (S2)

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.



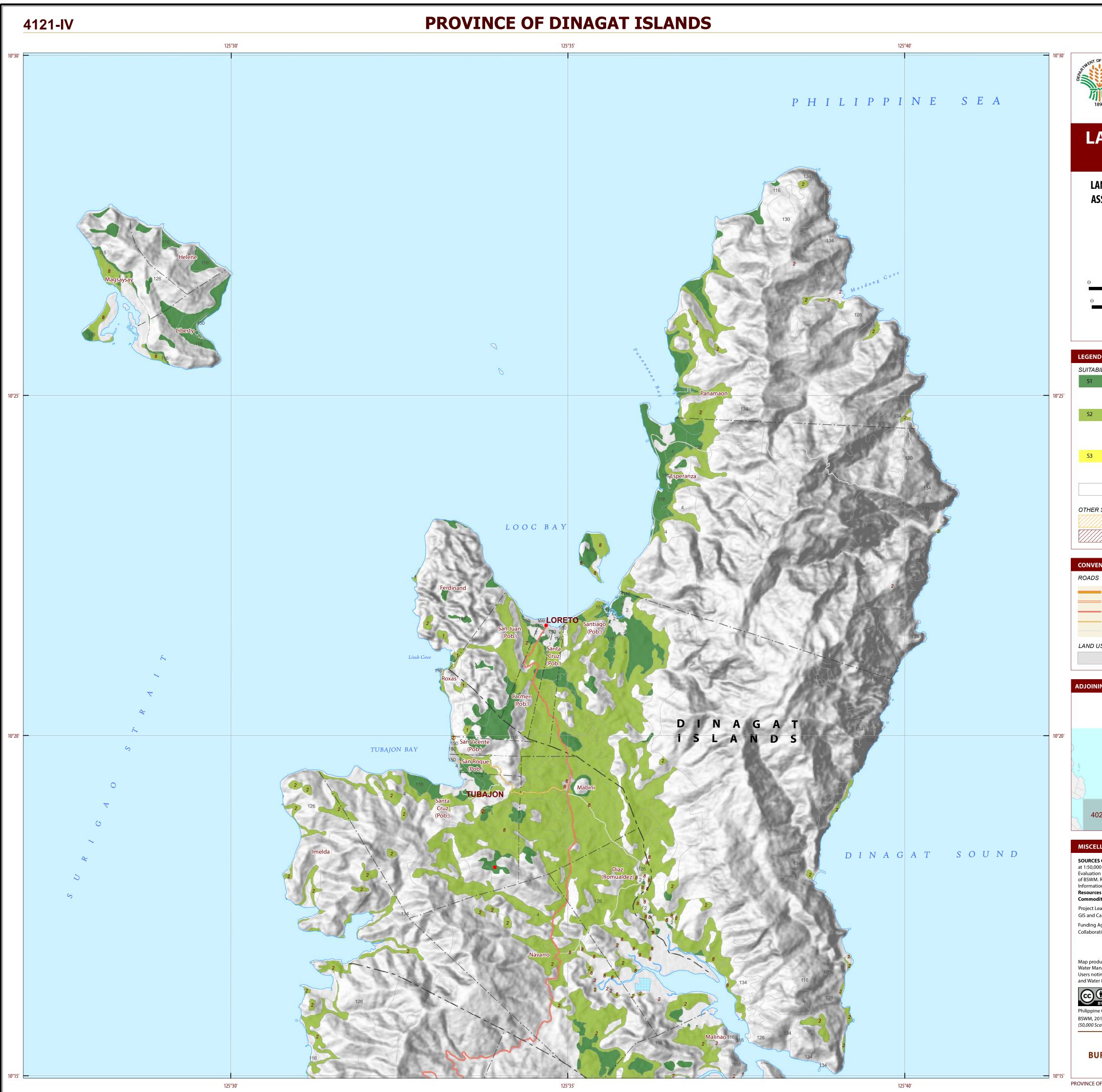
Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>.

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.

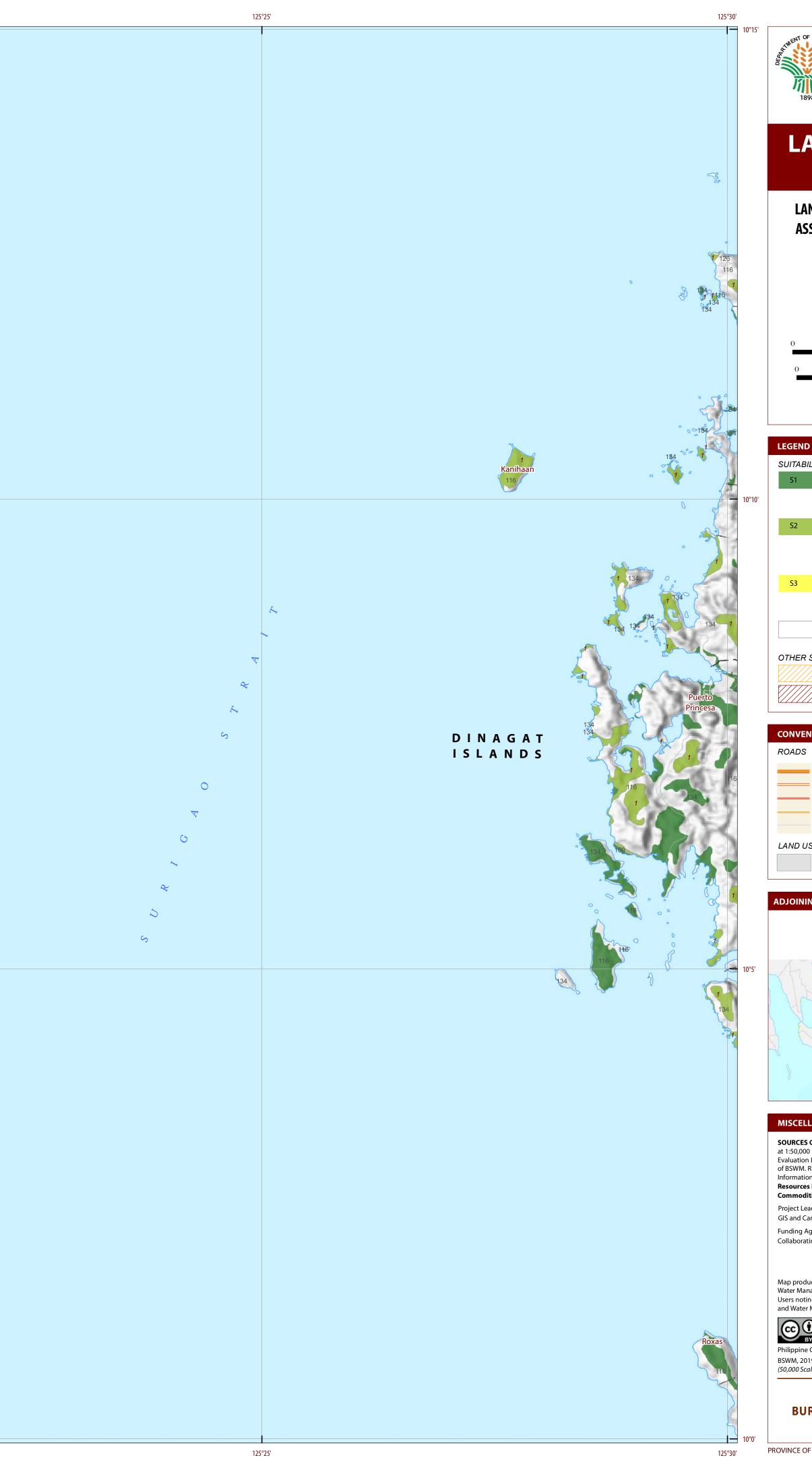




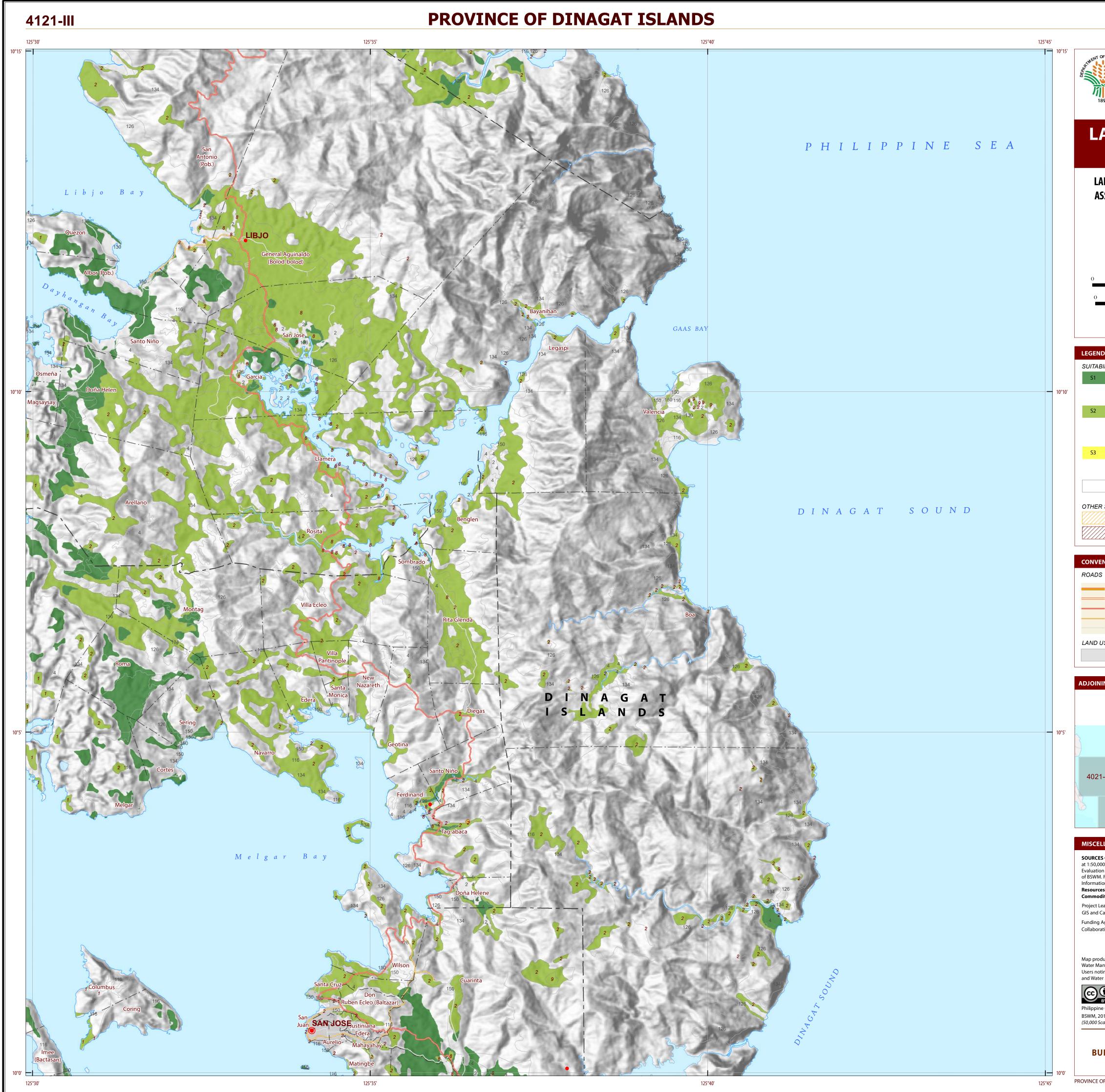
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Not Suitable/ No SIGNS NGP Areas Cacao		mitation se	
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Expressway Trunk line Primary Secondary Tertiary	Region Province District Municipa Baranga	PLAC. ality ★ ★	Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
JSE Built-up	Fishpond		Mangrove
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DF DINAGAT ISLANDS			<i>t 1 of 5</i> Sheet No. 4121-IV

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10°15'	
10°10'	
10°5'	
10°0' 125°15'	125°20'

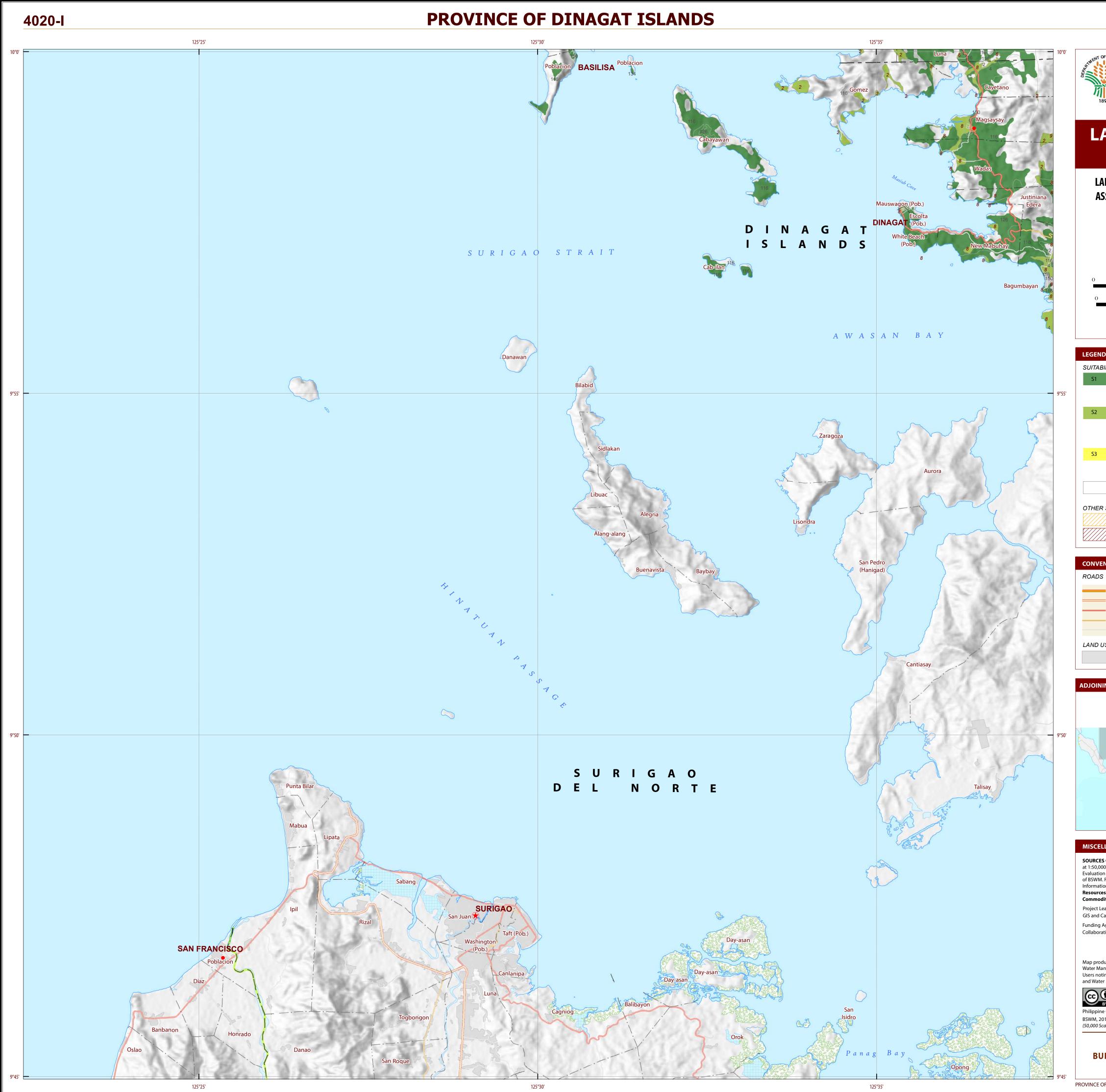




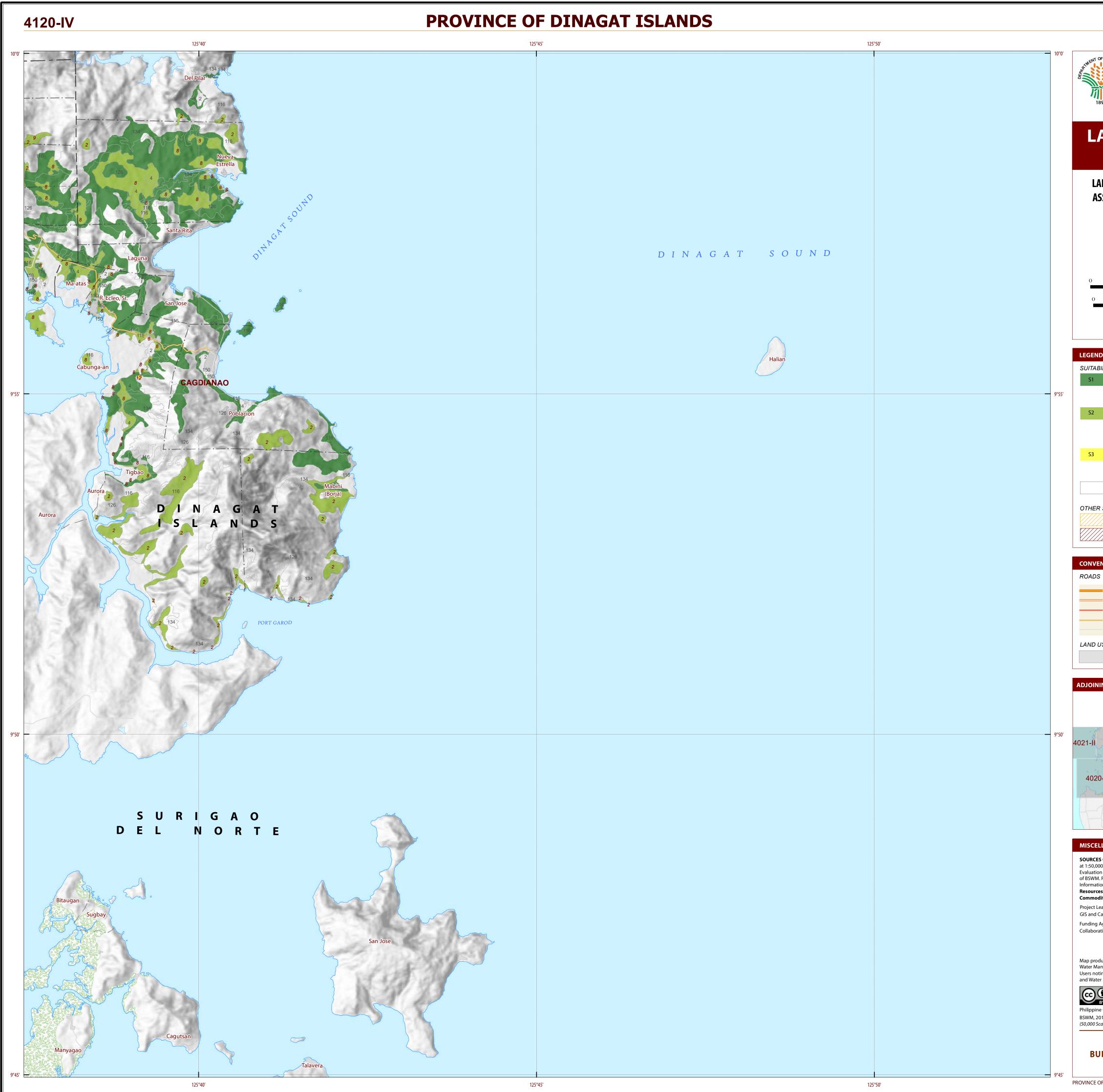
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Built-up Fishpond	Mangrove INDEX MAP
4021-II 4121-IV 4021-II 4121-III 4020-I 4120-IV	
LANEOUS INFORMATION S OF INFORMATION : Topographic information taken from 10 scale. Land resources information from the Agricultural L 10 Division (ALMED), Soils Survey Division (SSD) and Labora 10 Rice areas obtained from the Land Use System (FAO, 2015 10 System (PRISM) (IRRI, 2015). Data analysis and compilat 12 Evaluation and Suitability Assessment of Strategic Pu- 13 Lities Project implemented by BSWM (2017). 14 Evaluation and Suitability Assessment of Strategic Pu- 14 Lities Project implemented by BSWM (2017). 15 Evaluation and Suitability Assessment of Strategic Pu- 15 Lities Project implemented by BSWM (2017). 16 Evaluation and Suitability Assessment of Strategic Pu- 16 Lities Project implemented by BSWM (2017). 17 Evaluation and Suitability Assessment of Strategic Pu- 17 Lities Project implemented by BSWM (2017). 18 Evaluation and Suitability Assessment of Strategic Pu- 18 Evaluation and Suitability Assessment of Agriculture - Bureau of A 18 Evaluation and Suitability Assessment of Agriculture and Fisheries 18 Agriculture Regional Field Office of Regi 29 Evaluation and Suitability Assessment Unit (LGU) of covered 19 Evaluation Agriculture Assessment Unit (LGU) of covered 19 Evaluation Agriculture Assessment Unit (LGU) of covered 19 Evaluation Agriculture Assessment Unit (LGU) Strategic Pu- 19 Evaluation Agriculture Assessment Office of Regi 19 Evaluation Agriculture Assessment Unit (LGU) Strategic Pu- 19 Evaluation Agriculture Assessment Office Office Offic	and Management and tory Services Division (LSD)) and Philippine Rice ion through the Land roduction Areas for Major Agricultural Research (DA-BAR) sheries (PCAF) 5 - ARMM, Department of on IX, X, XI, XII and XIII (Caraga)
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Expressway Trunk line Primary Secondary Tertiary	Region	PLACE	Sea / Shoreline Lakes / Rivers
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