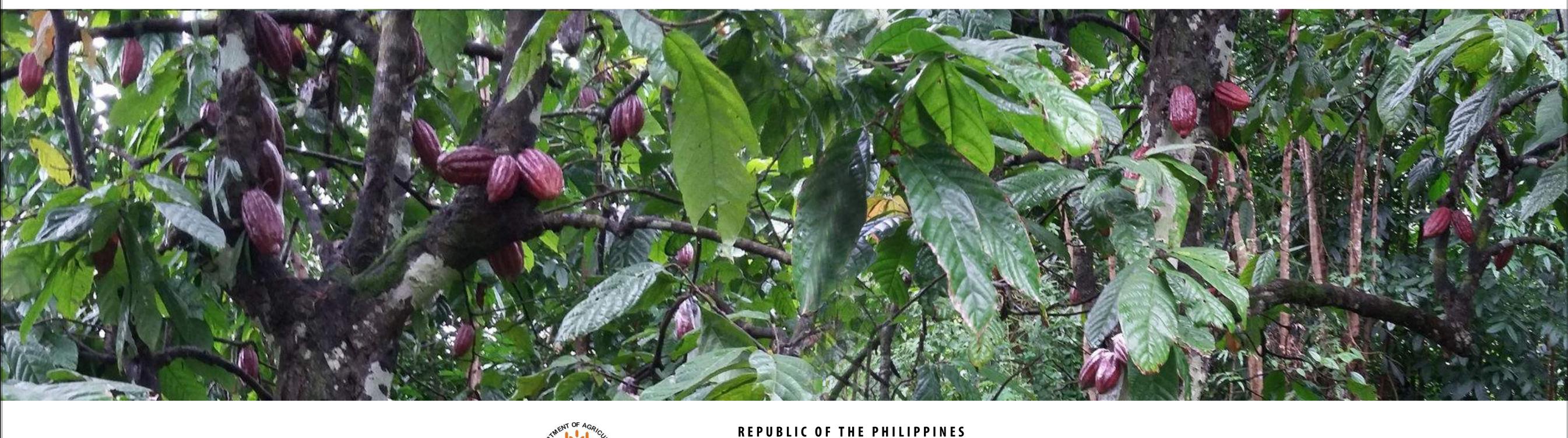


## LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

# **PROVINCE OF CAMIGUIN**



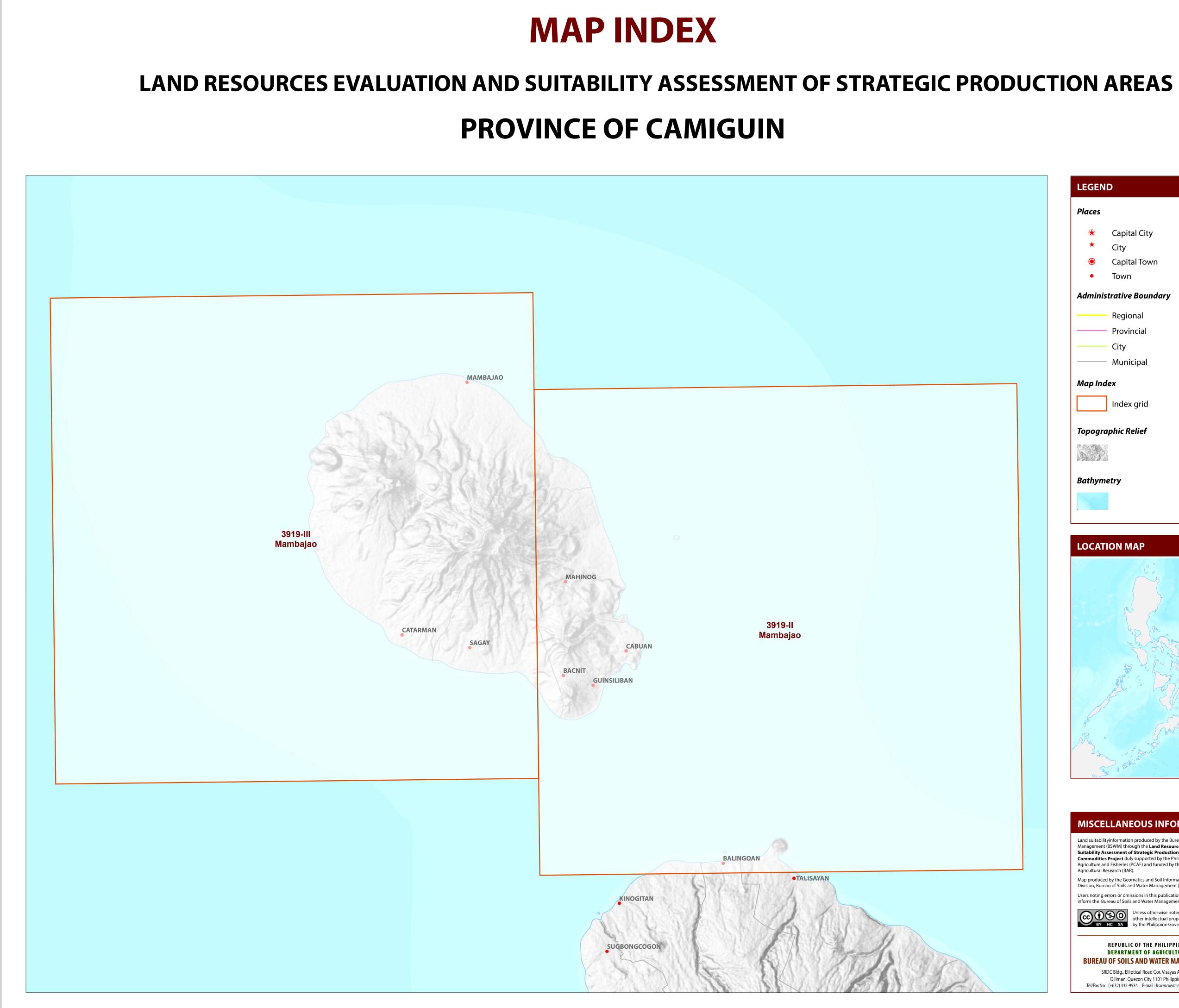


# LAND SUITABILITY MAP

# CACAO



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



LEGEN	D
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*	City
۲	Capital Town
•	Town
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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 CAMIGUIN, REGION X

### **EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY**

						EX	PANSION	AREA (Ha	a)			CONFLICT	r Resolu	TION ARI	EA (Ha)		TOTAL
MUNICIPALITY	EXISTING CACAO (Ha)		TOTAL EXISTING AREA (Ha)	Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Paddy rice, non-irrigated		Other crops		POTENTIAL EXPANSION AREA (Ha)	
	<b>S1</b>	S2	<b>S</b> 3		<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	
CATARMAN	-	1	-	1	1,979	450	-	-	15	-	-	-	-	-	-	-	2,444
GUINSILIBAN	-	-	-	-	587	-	-	-	34	-	-	-	-	-	-	-	621
MAHINOG	-	-	1	1	812	-	-	-	25	-	25	-	-	-	-	-	862
MAMBAJAO	-	-	1	1	2,516	495	-	_	49	-	72	41	-	-	-	-	3,172
SAGAY	-	-	1	1	502	423	-		58	-	29	3	-	-	_		1,015
TOTAL	-	1	3	4	6,396	1,369		-	181	-	125	44	-	-	-	-	8,115

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

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE	(%) SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSI CLAS		ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATI TYPE
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-sl	light none-few	<1000	2001-4500	I, III, IV
Cacao	S2	8 - 3	0 50 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moder	rate common	1000-1500	1000-2000	I, II
	S3	>30	) <50	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	seve	re many	>1500	<1000 >4500	
SLOPE (%)			SOIL DRAIN	AGE		SOIL REACTION	(pH)		SOIL TEX	TURE			
0-3 - lev	vel to gently sloping	g	ED - 0	excessively drained		< 4.5 - extre	emely acid		Coarse		F	ine	
	ntly sloping to und		WD -	vell drained			strongly acid		S	- sand	S	C - sand	y clay
	idulating to rolling	0		noderately well drained	1	5	ngly acid		LS	- loamy sand		iC - silty	
	lling to moderately	steep		somewhat poorly draine			umacid		CSL	- coarse sandy loam	С	5	-
30 - 50 - ste	<b>e</b>	steep		boorly drained			tly acid		SL	- sandy loam		=	y clay
	ery steep		-	very poorly drained		6.6 - 7.2 - neut	•		Medium	Sandy Ioann	11	ic neuv	y eldy
> 50 - 70	i y steep		VID -	cry poorry dramed			ly alkaline		FSL	- fine sandy loam			
COU DEDTU (	(ma)		CUDEACE IN	DEDIMENT			-			-			
SOIL DEPTH (	-		SURFACE IM				erately alkaline		L	- loam			
	ery shallow		ROCK OUTCR			> 8.5 - stror	ngly alkaline		SiL	- silt loam			
	allow			none - few					CL	- clay loam			
FO 100	odoratoly doop		10 - 30% - 0						SiCL	- silty clay loam			
	oderately deep			common									
	ep to very deep			nany					SCL	- sandy clay loam			
> 100 - de <b>LAND LI</b> <b>ELEVATION</b> El2 - 1000m El3 - > 1500 <b>SLOPE/TOPOO</b> T2 - Undula	ep to very deep MITATION - 1500m m		> 30% - 1 CRIPTION AN SOIL DRAIN D2 - Som D3 - Ver SOIL TEXT	nany I <b>D COMBINA</b> NAGE Jewhat poorly drained t poorly drained or exce	o poorly drained	d Sh2 Sh3	<b>CK OUTCROPS</b> 2 - Common	leep (50 - 100cr 7 to shallow (< 5	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat			
> 100 - de <b>LAND LI</b> <b>ELEVATION</b> El2 - 1000m El2 - 1500m <b>SLOPE/TOPOO</b> T2 - Undula T3 - Steep to	eep to very deep MITATION - 1500m m GRAPHY ting to moderately		> 30% - 1 CRIPTION AN SOIL DRAIN D2 - Som D3 - Ver SOIL TEXT	nany I <b>D COMBINA</b> NAGE what poorly drained t poorly drained or exce URE	o poorly drained	d Sh2 Sh3 RC Rc2	2 - Moderately o 3 - Very shallow <b>OCK OUTCROPS</b> 2 - Common	to shallow (< 5	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
> 100 - de <b>LAND LII</b> <b>ELEVATION</b> El2 - 1000m El3 - > 15000 <b>SLOPE/TOPOO</b> T2 - Undula T3 - Steep to <b>CODE I</b>	eep to very deep MITATION - 1500m m GRAPHY ting to moderately o very steep	steep CODE	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAIL</b> D2 - Som D3 - Very <b>SOIL TEXT</b> Tc - Coa	nany ID COMBINA NAGE what poorly drained t poorly drained or exce JRE rse texture	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li><b>OCK OUTCROPS</b></li> <li>2 - Common</li> <li>3 - Many</li> </ul>	to shallow (< 5	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
> 100 - de <b>LAND LI</b> <b>ELEVATION</b> El2 - 1000m El2 - 1000m El3 - > 1500m <b>SLOPE/TOPOO</b> <b>T2</b> - Undula T3 - Steep to <b>CODE</b> I <u>1</u> E2-St	MITATION MITATION	steep CODE 11	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAIN</b> D2 - Som D3 - Ver <b>SOIL TEXT</b> Tc - Coa <b>LIMITATION</b>	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 CODE	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>DCK OUTCROPS</li> <li>2 - Common</li> <li>3 - Many</li> <li>LANDUS</li> </ul>	se se	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
> 100 - de <b>LAND LI</b> <b>ELEVATION</b> El2 - 1000m El2 - 1000m El3 - > 1500m <b>SLOPE/TOPOO</b> <b>T2</b> - Undula T3 - Steep to <b>CODE</b> I <u>1</u> E2-St	MITATION - 1500m m GRAPHY ting to moderately o very steep JMITATION n2-Rc2 h2-Rc2	steep  CODE  11  7  12	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAIL</b> D2 - Som D3 - Very <b>SOIL TEXT</b> Tc - Coa <b>LIMITATION</b> T3-E3-Sh3-Rc2	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 CODE 1	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>DCK OUTCROPS</li> <li>2 - Common</li> <li>3 - Many</li> <li>LANDU</li> <li>Paddy rice, irriga</li> </ul>	se se	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
> 100 - de LAND LII ELEVATION El2 - 1000m El3 - > 15000 SLOPE/TOPOO T2 - Undula T3 - Steep to CODE I 1 E2-Sh 2 El2-S	eep to very deep MITATION - 1500m m GRAPHY ting to moderately o very steep LIMITATION n2-Rc2 h2-Rc2 c	steep CODE 11 7 12 13	> 30% - 1 CRIPTION AN SOIL DRAIM D2 - Som D3 - Very SOIL TEXT Tc - Coa LIMITATION T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc3	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 CODE 1 2	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>9CK OUTCROPS</li> <li>2 - Common</li> <li>3 - Many</li> <li>LANDU</li> <li>Paddy rice, irriga</li> <li>Paddy rice, non-i</li> </ul>	se se	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
> 100 - de   LAND LII   ELEVATION   El2 - 1000m   El2 - 1000m   El3 - > 15000   SLOPE/TOPOO   T2 - Undula   T3 - Steep to   1   E2-Sh   2   3   F2-To	eep to very deep MITATION - 1500m m GRAPHY ting to moderately o very steep LIMITATION n2-Rc2 h2-Rc2 c	steep CODE 11 ' 12 ' 13 ' 14 '	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAIL</b> D2 - Som D3 - Very <b>SOIL TEXT</b> Tc - Coa <b>LIMITATION</b> T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc3 T3-E12	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 CODE 1 2 4	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>2 - Common</li> <li>3 - Many</li> <li>2 LANDU</li> <li>2 Paddy rice, irriga</li> <li>2 Paddy rice, non-i</li> <li>2 Corn</li> </ul>	se se	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
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> 100       - de <b>LAND LII ELEVATION</b> El2       - 1000m         El2       - 1000m         El3       - > 1500m         SLOPE/TOPOO         T2       - Undula         T3       - Steep to         1       E2-Sh         2       E12-Si         3       F2-To         4       Sh2-Fi         5       T2         6       T2-E3	eep to very deep MITATION - 1500m m GRAPHY ting to moderately o very steep JMITATION n2-Rc2 h2-Rc2 h2-Rc2 c2 Rc2	steep           CODE           11           12           13           14           15           16	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAI</b> D2 - Som D3 - Ver <b>SOIL TEXT</b> Tc - Coa <b>LIMITATION</b> T3-E3-Sh3-Rc2 T3-E3-Sh3-Rc3 T3-E12 T3-E12-E3-Sh3-Rc2 T3-E13-E3-Sh3-Rc2	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 CODE 1 2 4 82 116	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>CK OUTCROPS</li> <li>2 - Common</li> <li>3 - Many</li> <li>LANDU</li> <li>Paddy rice, irriga</li> <li>Paddy rice, non-i</li> <li>Corn</li> <li>Cacao</li> <li>Coconut</li> <li>Grassland</li> </ul>	SE nted irrigated	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e seasonal flooding		
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$\begin{array}{c c} 100 & - de \\ \hline \\ LAND LII \\ \hline \\ ELEVATION \\ \hline \\ 12 & - 1000m \\ \hline \\ 13 & - > 1500m \\ \hline \\ 14 & - > 1500m \\ \hline \\ 15 & - > 1500m \\ $	A sep to very deep MITATION - 1500m m GRAPHY ting to moderately o very steep LIMITATION n2-Rc2 h2-Rc2 c2 c2 c2 c3-Sh2-Rc2 3-Sh2-Rc3	steep <b>CODE</b> 11 ' 12 ' 13 ' 14 ' 15 ' 16 ' 17 ' 18 '	> 30% - 1 <b>CRIPTION AN</b> <b>SOIL DRAIT</b> D2 - Som D3 - Very <b>SOIL TEXT</b> Tc - Coa <b>LIMITATION</b> T3-E3-Sh3-Rc2 T3-E12-E3-Sh3-Rc2 T3-E12-E3-Sh3-Rc2 T3-E13-E3-Sh3-Rc2 T3-E13-E3-Sh3-Rc2 T3-E13-E3-Sh3-Rc2	nany ID COMBINA VAGE what poorly drained t poorly drained or exce URE rse texture CODE LIMIT A	o poorly drained	d Sh2 Sh3 RC Rc2 Rc3 Rc3 Rc3 Rc3 Rc3 Rc3 Rc3 Rc3 Rc3 Rc3	<ul> <li>2 - Moderately of</li> <li>3 - Very shallow</li> <li>CK OUTCROPS</li> <li>2 - Common</li> <li>3 - Many</li> <li>LANDU</li> <li>Paddy rice, irriga</li> <li>Paddy rice, non-i</li> <li>Corn</li> <li>Cacao</li> <li>Coconut</li> <li>Grassland</li> </ul>	SE nted nrigated naged	SCL	- sandy clay loam <b>SOIL EROSION</b> E2 - Moderat E3 - Severe e <b>FLOODING</b> F2 - Moderat	rosion e 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.

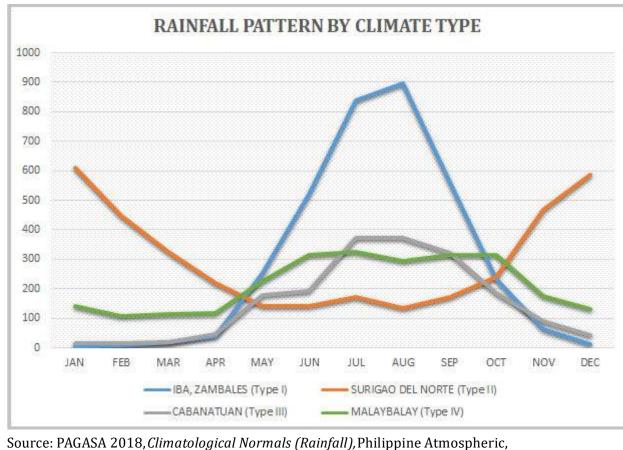
### Moderately Suitable (S2)

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** 

- **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.

Whole part of Camiguin is classified as climatic Type IV.



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

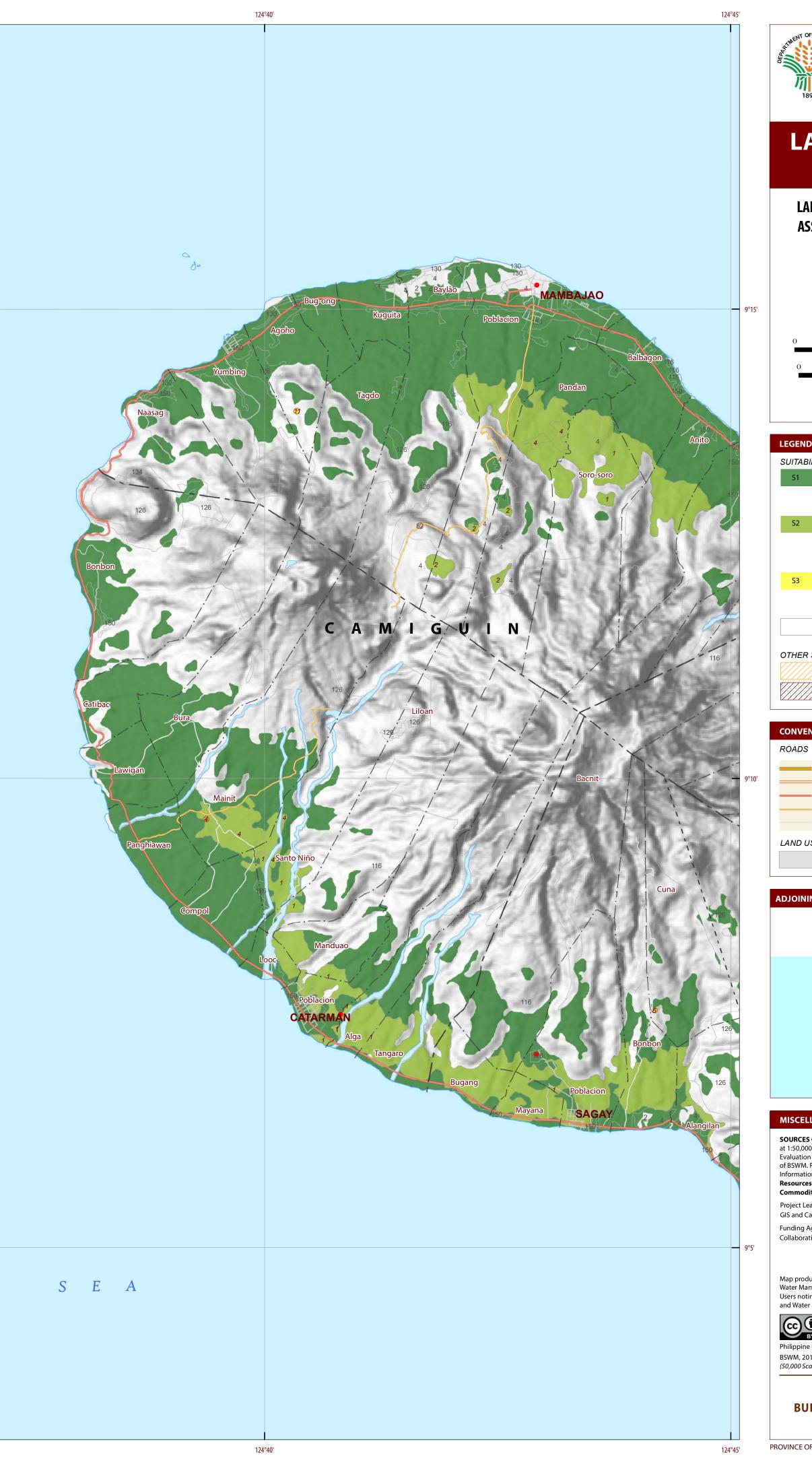
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

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.

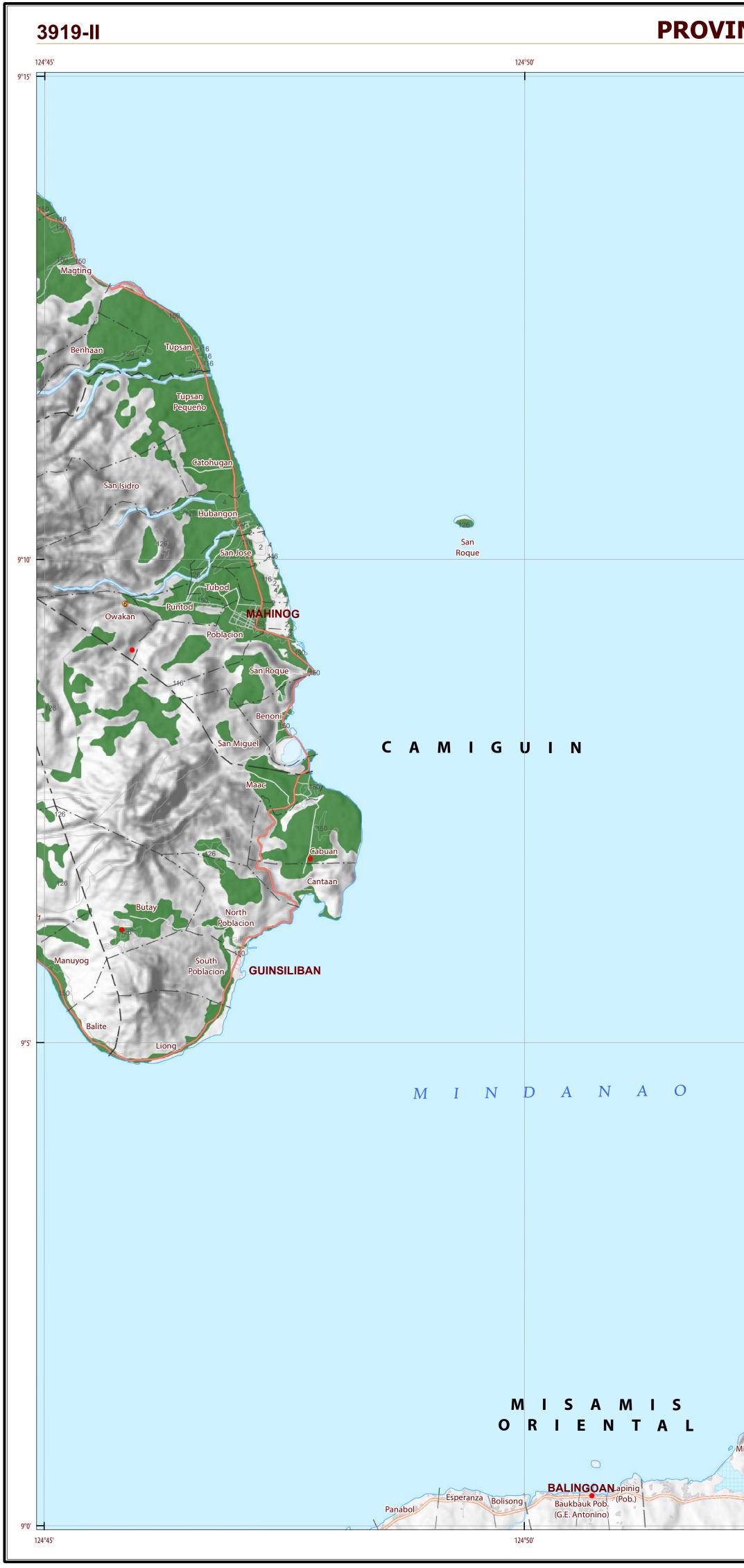
- period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
- **TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

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HLITY CLASSES Highly Suitable - Land having no significant limitations to sustai application of a given use, or only minor limitations that will not cantly reduce productivity or benefits and will not raise inputs as an acceptable level.	signifi-
<b>Moderately Suitable</b> - Land having limitations which in aggregation moderately severe for sustained application of a given use; the linic will reduce productivity or benefits and increase required inputs extent that the overall advantage to be gained from the use, alth attractive, will be appreciably inferior to that expected on class S	mitations to the ough still
<b>Marginally Suitable</b> - Land having limitations which in aggregation severe for sustained application of a given use and will so reduce tivity or benefits, or increase required inputs, that this expenditutionly marginally justified.	e produc-
Not Suitable/ Not Relevant	
NGP Areas     1     Land limitation       Cacao     116     Land use	
NTIONAL SIGNS	
BOUNDARY HYDROLOGY	
Expressively       Incground         Trunk line       Province         Primary       District         Secondary       Municipality         Trutiany       District	ers City
Trunk line       Province       Lakes / Riv         Primary       District       PLACES         Secondary       Municipality       Capital City /	ers City
Integration   Trunk line   Primary   Secondary   Tertiary   Barangay   Image: Secondary   Fishpond   Mangrove	ers City
Trunk line   Primary   Secondary   Tertiary   Barangay   Built-up   Fishpond Fishpond Mangrove	ers City
Integration   Trunk line   Primary   Secondary   Tertiary   Built-up   Fishpond   ING SHEETS   ING SHEETS   INDEX MAP	ers City
Lakes / Riv   Privinary   Secondary   Tertiary   Built-up   Fishpond   Secondary   Built-up   Fishpond   Secondary   Built-up   Fishpond   Secondary   Jog 5HEETS   NDEX MAP   Jag 19-III   Jag 19-IIII   Jag 19-IIII   Jag 19-	ers City /Town
Lakes / Riv   Primary   Secondary   Tertiary   Built-up   Fishpond   Secondary   Built-up   Secondary   Secondary   Built-up   Secondary   Secondary <td>ers City / Town / Tow</td>	ers City / Town / Tow
Lakes / Riv   Trunk line   Privary   Secondary   Tertiary   District   PLACES   Municipality   * * Capital City /   Barangay   • Capital Town   Research of the second o	ers City / Town / Town / Town / Town / Town / Caraga hic Map and on (LSD) / end is major h (DA-BAR) ent of XIII (Caraga) nicipalities Soils and
Trunk line   Primary   Secondary   Tertiary   District   PLACES   Municipality   Secondary   Tertiary   Barangay   Image: Comparison of the secondary   Tertiary   Secondary   Built-up   Fishpond   Secondary   Junct Sheets   Secondary   Secondary   Junct Sheets   Secondary	ers City / Town / Tow
Trunk line   Primary   Secondary   Tertiary   District   PLACES   Municipality   *   Capital City /   Barangay   •   Capital City   Barangay   •   Capital City   Built-up   Fishpord   Mangrove   Mangrove<	ers City / Town / Tow



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REAU OF SO SRDC Bldg., Elliptical	ILS AND WA         Road Cor. Visayas Avenu         2) 332-9534         E-mail : bsw	TER MAN e, Diliman, Quez mclientcenter@ya	NAGEMENT