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

PROVINCE OF CAMIGUIN



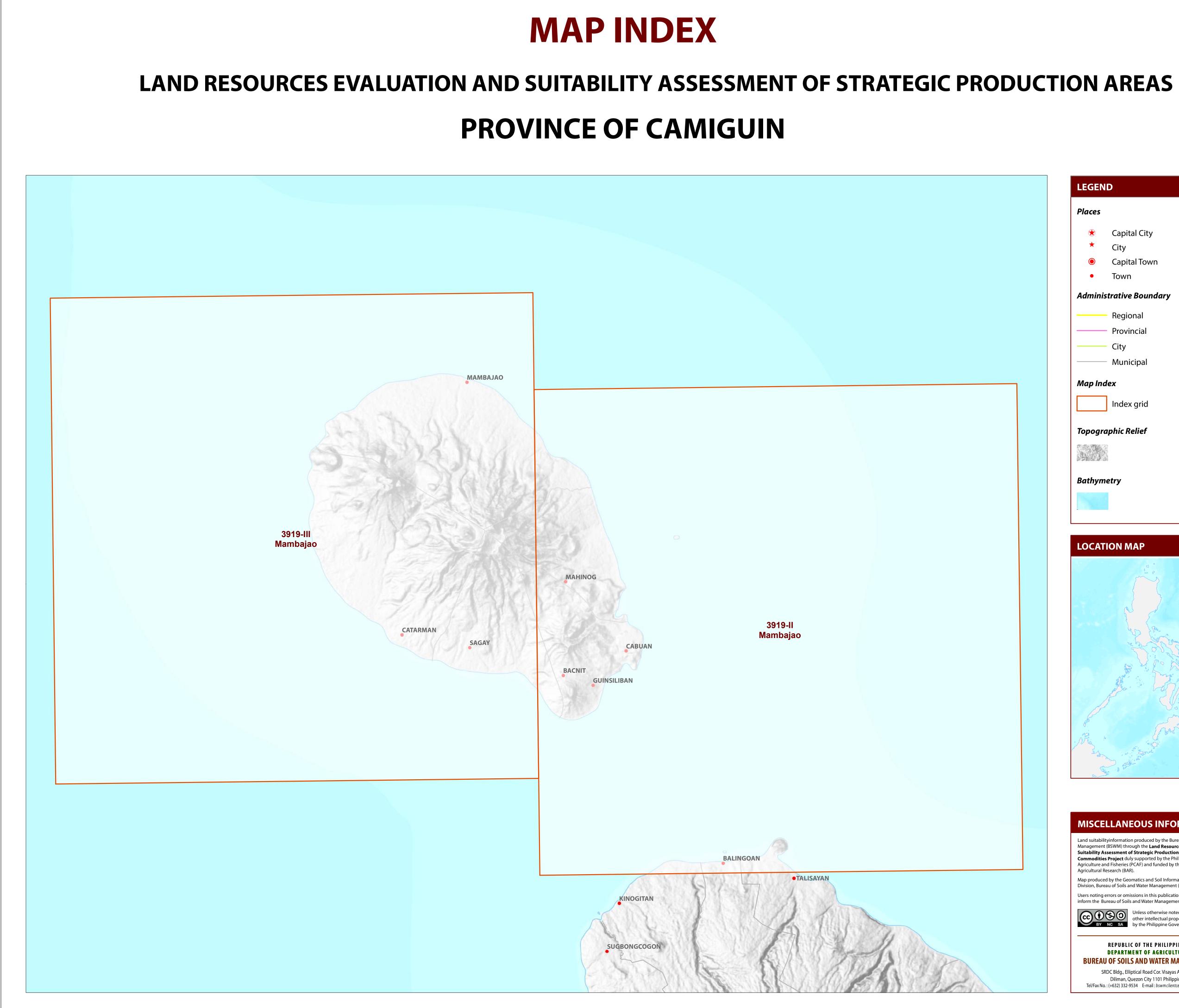


LAND SUITABILITY MAP

ARABICA COFFEE



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



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Diliman, Quezon City 1101 Philippines Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com

LAND SUITABILITY MAP FOR **ARABICA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS CAMIGUIN, REGION X

EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY

			EXPANSION AREA (Ha)									TOTAL					
MUNICIPALITY	EXISTING COFFEE (Ha)		TOTAL EXISTING AREA (Ha)	Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Paddy rice, non-irrigated		Other crops		POTENTIAL EXPANSION	
	S1	S 2	S 3		S1	S2	S1	S2	S1	S 2	S1	S2	S1	S 2	S1	S2	AREA (Ha)
CATARMAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUINSILIBAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAHINOG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAMBAJAO	-	-	-	-	-	8	-	-	-	-	-	24	-	-	-	-	33
SAGAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	8	-	-	-	-	-	24	-	-	-	-	33

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

10 T2-El3

AGRONOMIC REOLUREMENT OF ARABICA COFFEE PRODUCTION

20 T3-El3-E3-Sh3-Rc2

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%) SOIL DEPTH (cm)		EXTURE	SOIL DRAINAGE	SOIL REACTIC (pH)	N INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALI (mm)	
	S1	<8	>100		, SCL, SC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	1000-2000	2001-4500	0 I, III, IV
Coffee (Arabica)	S2	8 - 30	30 - 100		L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	1 medilim	moderate	moderate	common	500-1000 2000-2500	1000-2000	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	AGE			SOIL REAC	TION (pH)		SOIL TEXT	URE			·
0-3 - lev	vel to gently slopin	ıg	ED -	excessively	drained		< 4.5	- extremely acid		Coarse			Fine	
3 - 8 - gei	ntly sloping to und	lulating	WD -	well draine	d		4.5 - 5.0	- very strongly acid		S	- sand		SC ·	- sandy clay
8 - 18 - un	dulating to rolling		MWD -	moderately	well draine	d	5.1 - 5.5	- strongly acid		LS	- loamy sand		SiC ·	- silty clay
18 - 30 - rol	lling to moderately	y steep	SPD -	somewhat	poorly drain	ed	5.6 - 6.0	- medium acid		CSL	- coarse sandy loam	l	C ·	- clay
30 - 50 - ste	ep		PD -	poorly drain	ned		6.1 - 6.5	- slightly acid		SL	- sandy loam		HC ·	- heavy clay
> 50 - ve	ry steep		VPD -	very poorly	v drained		6.6 - 7.2	- neutral		Medium	-			
							7.3 - 7.8	- mildly alkaline		FSL	- fine sandy loam			
SOIL DEPTH (cm)		SURFACE IN	IPEDIMEN	Т			- moderately alkaline			- loam			
-	ry shallow		ROCK OUTCI				> 8.5	- strongly alkaline			- silt loam			
	allow			none - few				strongry unturne			- clay loam			
	oderately deep			common							- silty clay loam			
	ep to very deep			many							- sandy clay loam			
	ΜΙΤΑΤΙΟΝ	S DESC	ριρτιων αν		TRINAT	IONS								
	MITATION	S DESC	RIPTION AN		IBINAT	IONS		SOIL DEPTH			SOIL FROSION			
ELEVATION			SOIL DRAI	NAGE			1	SOIL DEPTH Sh2 - Shallow to	moderately dee	n (30 - 100cm)	SOIL EROSION E2 - Modera			
ELEVATION El2 - 500 - 10	MITATION 000m or 2000 - 250 or > 2500m		SOIL DRAI D2 - Son	NAGE newhat poor	rly drained t	TIONS to poorly drained			moderately deej ow (< 30cm)	o (30 - 100cm)		ate erosion		
ELEVATION El2 - 500 - 10	000m or 2000 - 250 or > 2500m		SOIL DRAI D2 - Son	NAGE newhat poor y poorly dra	rly drained t	o poorly drained		Sh2 - Shallow to	ow (< 30cm)	o (30 - 100cm)	E2 - Modera	ate erosion		
ELEVATION El2 - 500 - 10 El3 - < 500m SLOPE/TOPOG	000m or 2000 - 250 or > 2500m	00m	SOIL DRAI D2 - Son D3 - Ver SOIL TEXT	NAGE newhat poor y poorly dra	rly drained t	o poorly drained		Sh2 - Shallow to Sh3 - Very shallo ROCK OUTCROPS Rc2 - Common	ow (< 30cm)	o (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	0	
ELEVATION El2 - 500 - 10 El3 - < 500m SLOPE/TOPOG F2 - Undulat	000m or 2000 - 250 or > 2500m GRAPHY	00m	SOIL DRAI D2 - Son D3 - Ver SOIL TEXT	NAGE newhat poor y poorly dra URE	rly drained t	o poorly drained		Sh2 - Shallow to Sh3 - Very shallo ROCK OUTCROPS	ow (< 30cm)	o (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion	0	
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ELEVATION El2 - 500 - 10 El3 - < 500m	000m or 2000 - 250 or > 2500m GRAPHY ting to moderately overy steep	00m steep CODE	SOIL DRAI D2 - Son D3 - Ver SOIL TEXT Tc - Coa	NAGE newhat poor y poorly dra URE rse texture CODE	rly drained t ained or exco	to poorly drained essively drained ATION		Sh2 - Shallow to Sh3 - Very shallo ROCK OUTCROPS Rc2 - Common Rc3 - Many	ow (< 30cm)	o (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	0	
ELEVATION El2 - 500 - 10 El3 - < 500m	000m or 2000 - 250 or > 2500m GRAPHY ting to moderately overy steep IMITATION	00m steep CODE <u>11</u> T	SOIL DRAIL D2 - Son D3 - Ver SOIL TEXT Tc - Coa LIMITATION	NAGE newhat poor y poorly dra URE rse texture CODE 21	rly drained t ained or exco LIMIT	to poorly drained essively drained ATION Sh3-Rc3		Sh2- Shallow toSh3- Very shalloROCK OUTCROPSRc2- CommonRc3- ManyODELAND	ow (< 30cm) USE gated	9 (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	0	
ELEVATION E12 - 500 - 10 E13 - < 500m	000m or 2000 - 250 or > 2500m GRAPHY ting to moderately overy steep IMITATION h2-Rc2	00m steep <u>CODE</u> <u>11</u> T <u>12</u> T	SOIL DRAI D2 - Son D3 - Ver SOIL TEXT Tc - Coa LIMITATION 2-E13-E2-Sh2-Rc2	NAGE newhat poor y poorly dra URE rse texture CODE 21 22	rly drained t ained or exce LIMIT T3-El3-E3-	to poorly drained essively drained ATION Sh3-Rc3		Sh2- Shallow toSh3- Very shalloROCK OUTCROPSRc2- CommonRc3- ManyODELAND1Paddy rice, irri	ow (< 30cm) USE gated	o (30 - 100cm)	E2 - Modera E3 - Severe FLOODING F2 - Modera	ate erosion erosion ate seasonal flood	0	
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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.



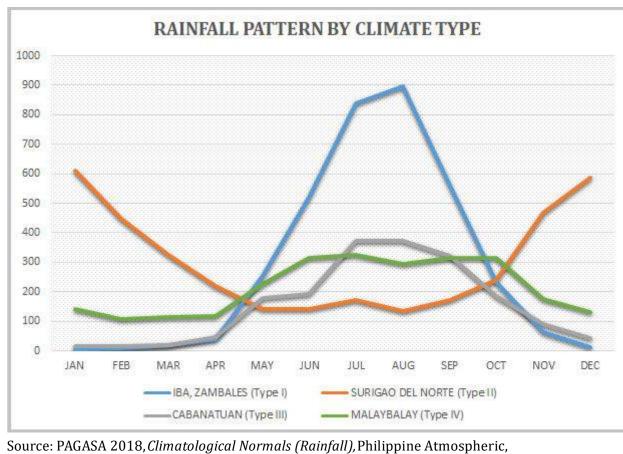
Moderately Suitable (S2)

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.

Whole part of Camiguin is classified as climatic Type IV.



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

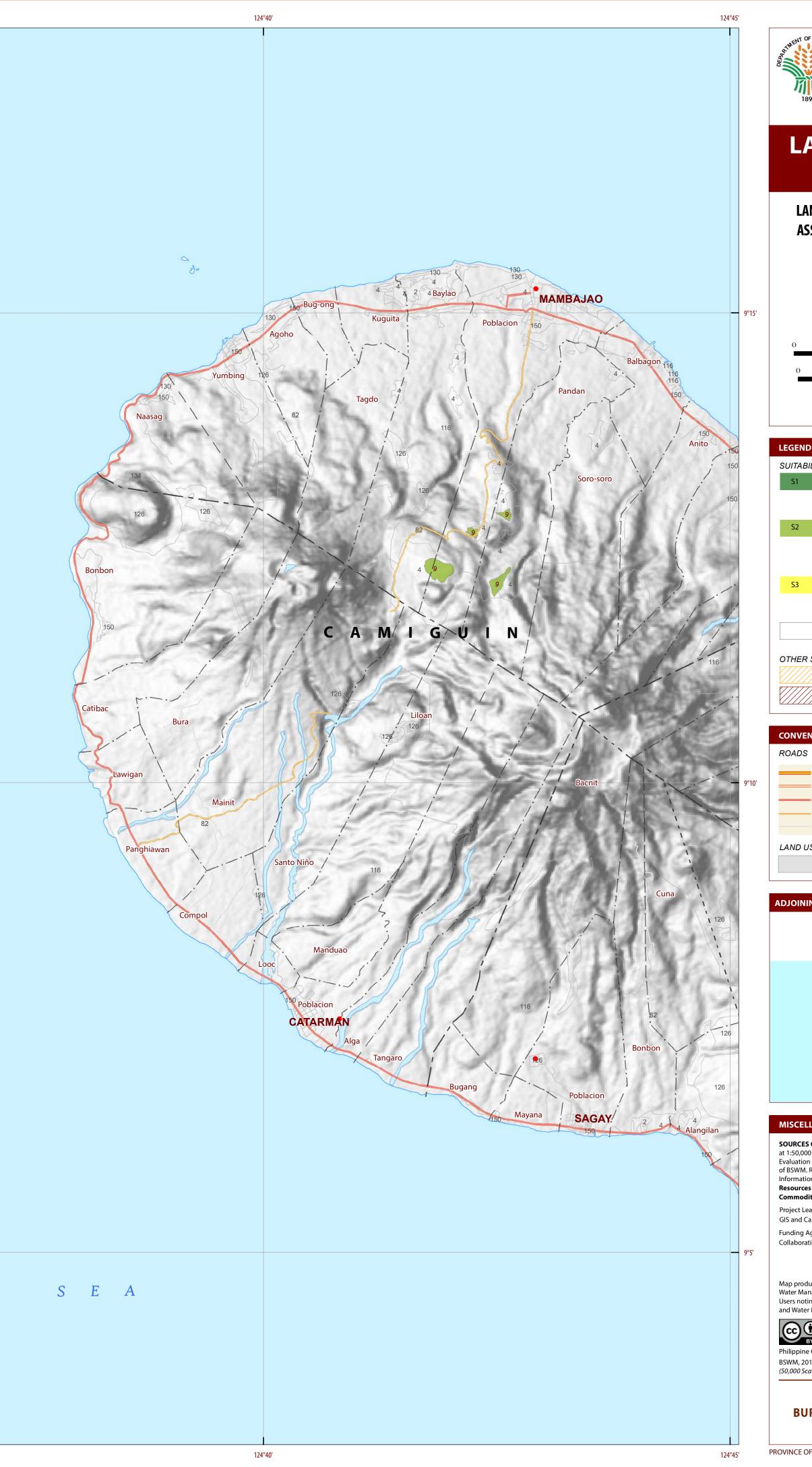
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

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.

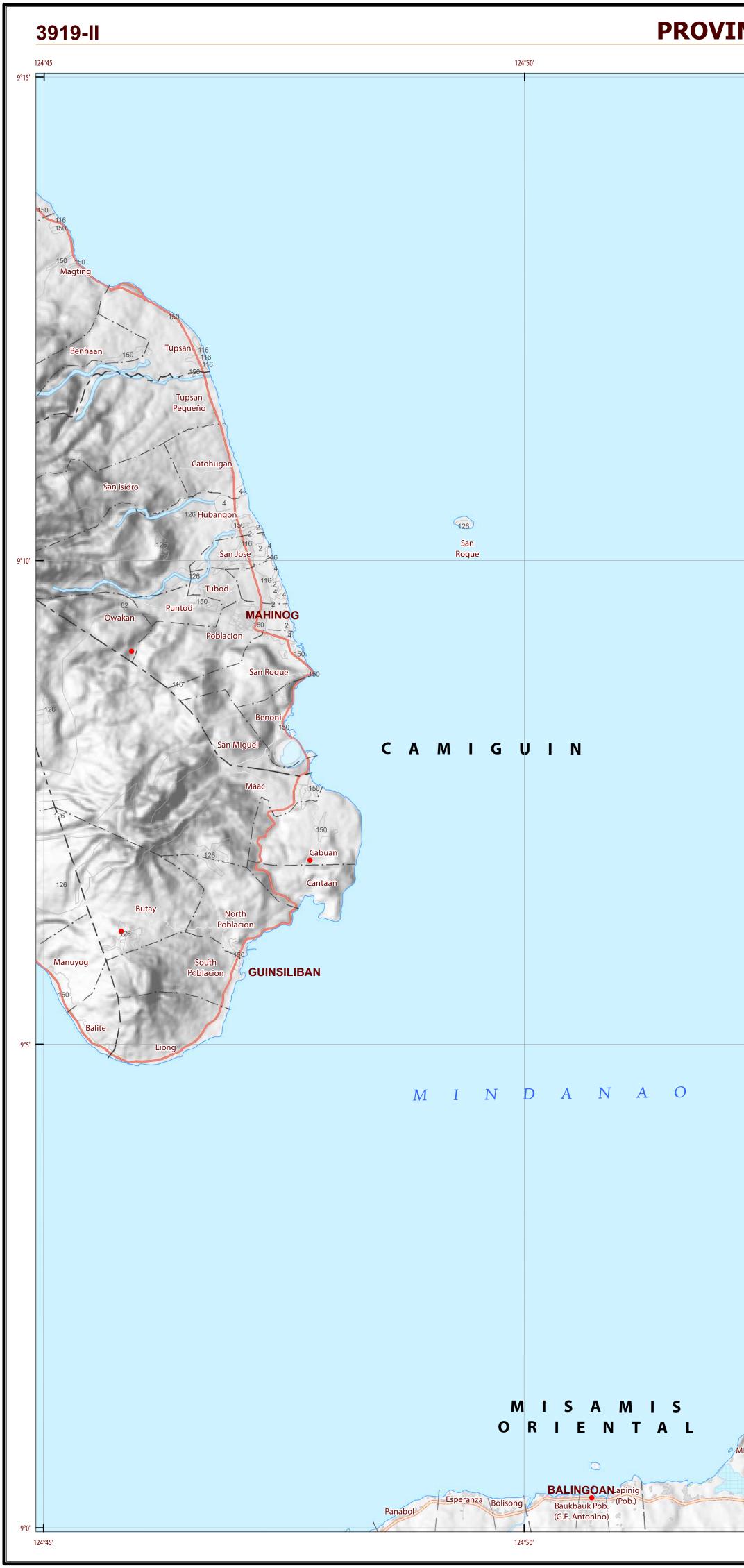
- period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
- **TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

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Built-up	Fishpond	Sec. Sp	Mangrove
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: Local Government Unit (LGU) of co luced by the Geomatics and Soil Information Technol nagement (BSWM). ing errors or omissions in this publication are reques r Management. This publication is licensed under a International License. Unless otherw	tural Land Management and aboratory Services Division (LSD) 2015) and Philippine Rice appilation through the Land gic Production Areas for Major u of Agricultural Research (DA-BAR) and Fisheries (PCAF) heries - ARMM, Department of f Region IX, X, XI, XII and XIII (Caraga) overed provinces and municipalities logy Division, Bureau of Soils and ted to inform the Bureau of Soils Creative Commons Attribution 4.0 vise noted, copyright and any other
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SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Dilima Tel/Fax No. : (+632) 332-9534 E-mail : <i>bswmclientce</i>	in, Quezon City 1101