# **PROVINCE OF SURIGAO DEL SUR**





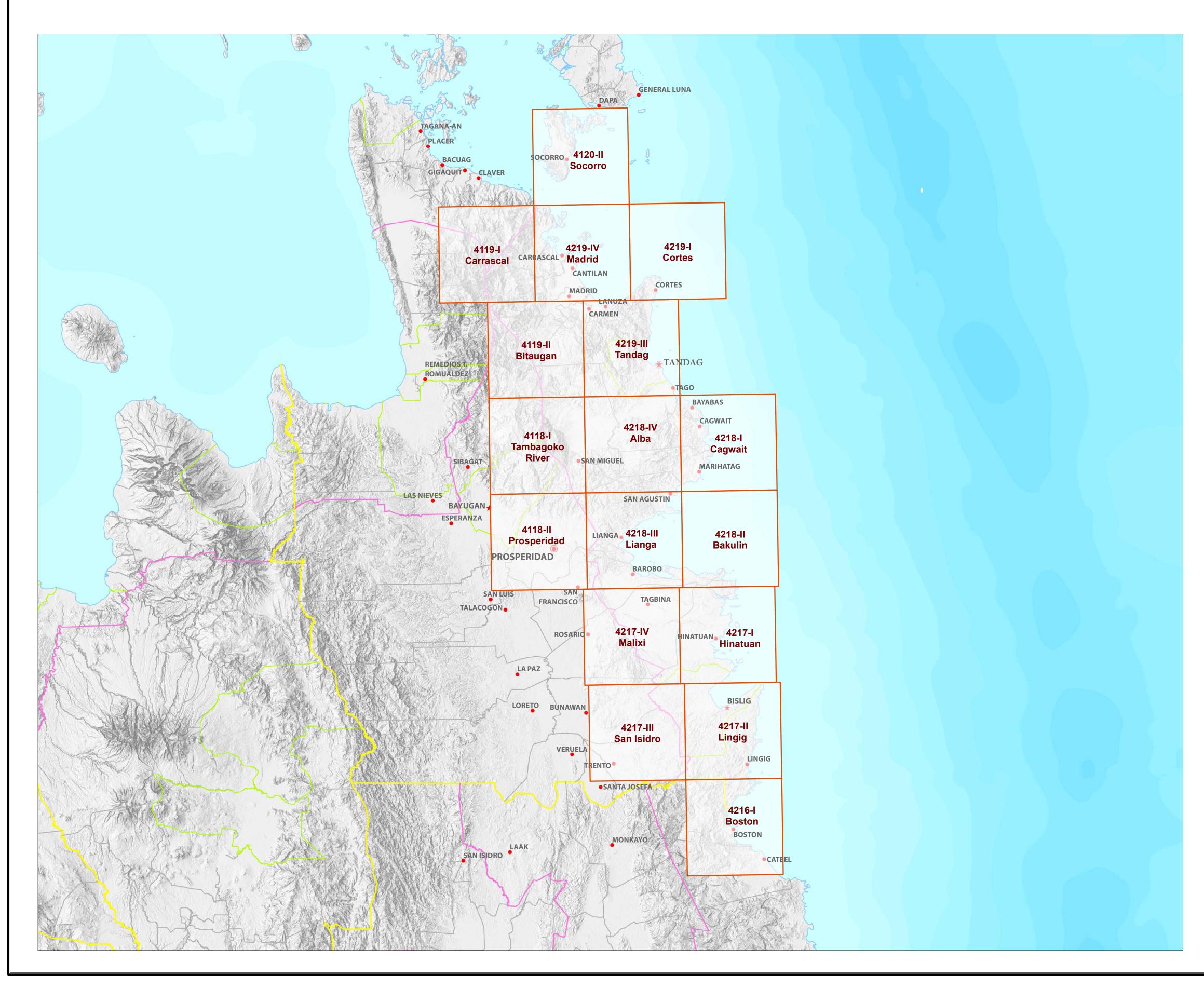
# LAND SUITABILITY MAP

# **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 SURIGAO DEL SUR



## **MAP INDEX**

LEGEN	ID
Places	
۲	Capital City
*	City
۲	Capital Town
•	Town
Admini	strative Boundary
	- Regional
	- Provincial
	- City
	- Municipal
Map Ind	dex
	Index grid
Topogra	aphic Relief
Bathym	etry
LOCAT	ION MAP
	No.
	ar second



# LAND SUITABILITY MAP FOR **ARABICA COFFEE**

## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **SURIGAO DEL SUR, REGION XIII**

## **EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY**

						EX	PANSION	AREA (H	a)			CONFLIC	T RESOL	UTION A	REA (Ha)		TOTAL
MUNICIPALITY	EXISTI	NG COFFE	EE (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrul unmar	-	Grass unman		Со	rn	-	y rice, rigated	Other	crops	POTENTIAL EXPANSION
	<b>S1</b>	S2	<b>S</b> 3		<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	<b>S</b> 2	<b>S1</b>	S2	<b>S1</b>	S2	<b>S1</b>	S2	AREA (Ha)
BAROBO	2	-	3	5	11,830	2,063	715	25	64	9	517	42	-	-	-	-	15,264
BAYABAS	-	-	-	-	1,620	36	141	-	-	-	278	25	-	-	-	-	2,101
CAGWAIT	-	-	-	-	2,853	56	65	-	-	-	322	-	-	-	-	-	3,296
CANTILAN	-	-	-	-	791	420	29	81	38	100	1,808	143	-	-	-	-	3,409
CARMEN	-	-	-	-	635	54	39	198	23	94	273	17	-	-	-	-	1,334
CARRASCAL	-	-	-	-	228	510	596	754	109	927	308	33	-	-	-	-	3,467
CITY OF BISLIG	-	-	-	-	12,730	1,754	2,471	71	549	82	1,280	5	-	-	-	-	18,943
CITY OF TANDAG	-	-	-	-	1,308	2,795	230	86	22	124	322	337	-	-	-	-	5,225
CORTES	-	-	-	-	711	1,643	1	39	-	-	91	43	-	-	-	-	2,529
HINATUAN	-	-	-	-	14,187	10,068	338	593	547	156	383	22	-	-	-	-	26,293
LANUZA	-	-	-	-	790	297	3	274	18	281	129	2	-	-	-	-	1,795
LIANGA	14	21	11	45	2,575	978	177	169	-	137	77	-	-	-	-	-	4,112
LINGIG	-	-	-	-	2,650	7	806	-	158	-	83	-	-	-	-	-	3,704
MADRID	-	-	-	-	658	492	12	47	43	20	1,594	38	-	-	-	-	2,904
MARIHATAG	-	-	-	-	4,262	329	171	471	-	73	810	-	-	-	-	-	6,117
SAN AGUSTIN	-	-	-	-	1,912	216	98	582	8	163	497	-	-	-	-	-	3,475
SAN MIGUEL	-	-	-	-	3,178	522	777	472	335	169	5,745	100	-	-	-	-	11,299
TAGBINA	-	-	-	-	24,841	6,486	370	90	1,102	313	190	34	-	-	-	-	33,427
TAGO	-	-	-	-	2,921	1,462	182	1	15	14	3,707	2,890	-	-	-	-	11,192
TOTAL	16	21	14	50	90,680	30,188	7,221	3,955	3,031	2,663	18,415	3,732	-	-	-	-	159,885

Note: Delivery of arabica coffee planting materials must be started on the onset of rainy season.

\*establishment of shade trees prior to planting of coffee arabica.

AGRON	OMIC REQU	IREMENT	OF ARAB	ICA COFFEE	PRODUC	ΓΙΟΝ							
LAND UTILIZATION TYPE	N SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
	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	2001-4500	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	1000-2000	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 DRAINA	AGE		SOIL REACTIO	N (pH)		SOIL TEXT	URE			
0-3 - le	evel to gently sloping	3	ED - e	excessively drained		< 4.5 - ext	remely acid		Coarse			Fine	
3-8 -g	ently sloping to und	ulating	WD - v	vell drained		4.5 - 5.0 - vei	ry strongly acid		S	- sand		SC - s	sandy clay
3-18 - u	ndulating to rolling		MWD - n	noderately well drain	ed	5.1 - 5.5 - str	ongly acid		LS	- loamy sand		SiC - s	silty clay
18 - 30 - re	olling to moderately	steep	SPD - s	omewhat poorly drain	ned	5.6 - 6.0 - me	edium acid		CSL	- coarse sandy loam		C - 0	clay
30 - 50 - st	eep		PD - p	oorly drained		6.1 - 6.5 - slig	ghtly acid		SL	- sandy loam		HC - I	neavy clay
> 50 - v	ery steep		VPD - v	very poorly drained		6.6 - 7.2 - nei	utral		Medium				
						7.3 - 7.8 - mi	ldly alkaline		FSL	- fine sandy loam			
SOIL DEPTH	(cm)		SURFACE IM	PEDIMENT		7.9 - 8.4 - mo	derately alkaline		L	- loam			
0-30 -v	ery shallow		ROCK OUTCR	OPS		> 8.5 - str	ongly alkaline		SiL	- silt loam			
30 - 50 - sl	nallow		<10% - n	none - few					CL	- clay loam			
50 - 100 - n	noderately deep		10 - 30% - c	common					SiCL	- silty clay loam			
>100 - d	eep to very deep		> 30% - n	nany						- sandy clay loam			

## LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION         El2       - 500 - 1000m or 2000 - 2500m         El3       - < 500m or > 2500m	SOIL DRAINAGED2- Somewhat poorly drained to poorly drainedD3- Very poorly drained or excessively drained	SOIL DEPTHSh2- Shallow to moderately deep (30 - 100cm)Sh3- Very shallow (< 30cm)
SLOPE/TOPOGRAPHYT2- Undulating to moderately steepT3- Steep to very steep	SOIL TEXTURE Tc - Coarse texture	ROCK OUTCROPSRc2- CommonRc3- Many

CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	El2	11	Sh2-Rc2	21	T2-El2-E3-Sh2-Rc2	31	T2-El3-E3-Sh2-Rc2	41	T3-E3-Sh3-Rc3	51	T3-El3-E3-Sh3-Rc2	61	T3-El3
2	El2-E2-Sh2-Rc3	12	T2	22	T2-El2-E3-Sh2-Rc3	32	T2-El3-E3-Sh2-Rc3	42	T3-El2	52	T3-El3-E3-Sh3-Rc3	62	T3-El3-E3
3	El2-Sh2-Rc2	13	T2-E3-Rc2	23	T2-El2-Rc2	33	T2-El3-F2-D2	43	T3-El2-E3-Rc2	53	T3-El3-F2-D2	63	T3-El3-E3-Sh3-Rc3
4	El3	14	T2-E3-Rc3	24	T2-El2-Sh2-Rc2	34	T2-El3-F3-D2	44	T3-El2-E3-Sh2-Rc3	54	T3-El3-F3-D2	64	T3-El3
5	El3-F2-D2	15	T2-E3-Sh2-Rc2	25	T2-El2-Sh2-Rc3	35	T2-Sh2-Rc2	45	T3-El2-E3-Sh3-Rc2	55	T3		
6	El3-F2-Tc	16	T2-E3-Sh2-Rc3	26	T2-El3	36	T2-Sh2-Rc3	46	T3-El2-E3-Sh3-Rc3	56	T3-E3-Rc3		
7	El3-F3-D2	17	T2-El2	27	T2-El3-E2-Sh2-Rc2	37	Т3	47	T3-El3	57	T3-E3-Sh3-Rc3		
8	El3-Sh2	18	T2-El2-E3	28	T2-El3-E3	38	T3-E3-Rc2	48	T3-El3-E3	58	T3-El2		
9	El3-Sh2-Rc2	19	T2-El2-E3-Rc2	29	T2-El3-E3-Rc2	39	T3-E3-Sh2-Rc3	49	T3-El3-E3-Rc2	59	T3-El2-E3		
10	El3-Tc	20	T2-El2-E3-Rc3	30	T2-El3-E3-Rc3	40	T3-E3-Sh3-Rc2	50	T3-El3-E3-Sh2-Rc3	60	T3-El2-E3-Sh3-Rc3		

	SOII	EROSION
m)	E2	- Moderate erosion
	E3	- Severe erosion

FLOODING

- Moderate seasonal flooding F2 - Severe seasonal flooding F3

CODE	LANDUSE
4	Corn
81	Coffee
82	Сасао
116	Coconut
126	Grassland
134	Shrubs, unmanaged
136	Forest

### **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.

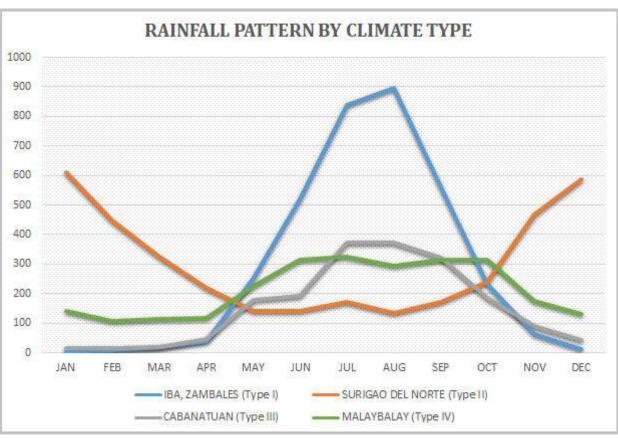
## Moderately Suitable (S2)

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.

Surigao Del Sur is classified as climatic Type II.

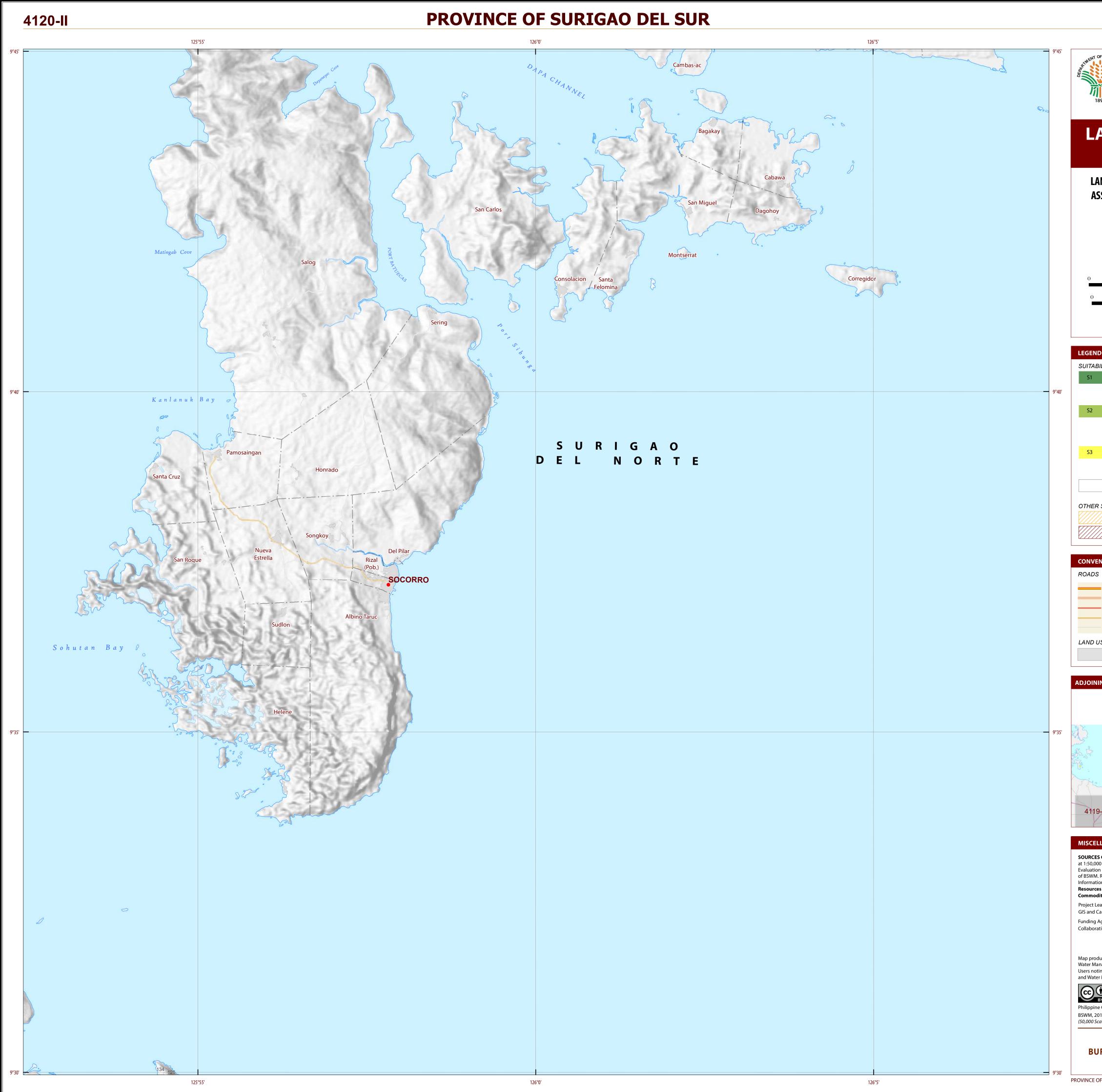


Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <a href="https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals">https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals</a>>.

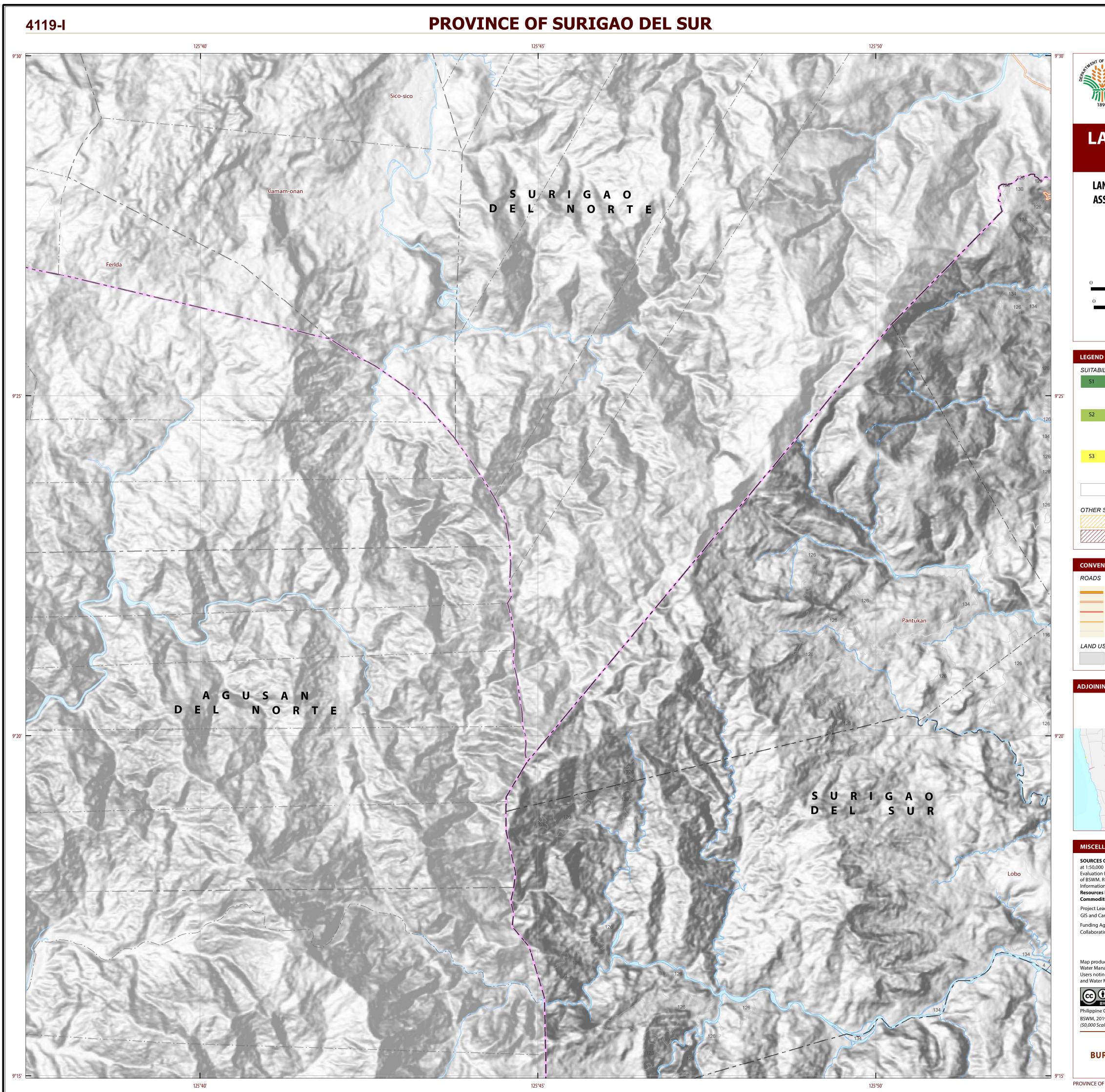
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

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.

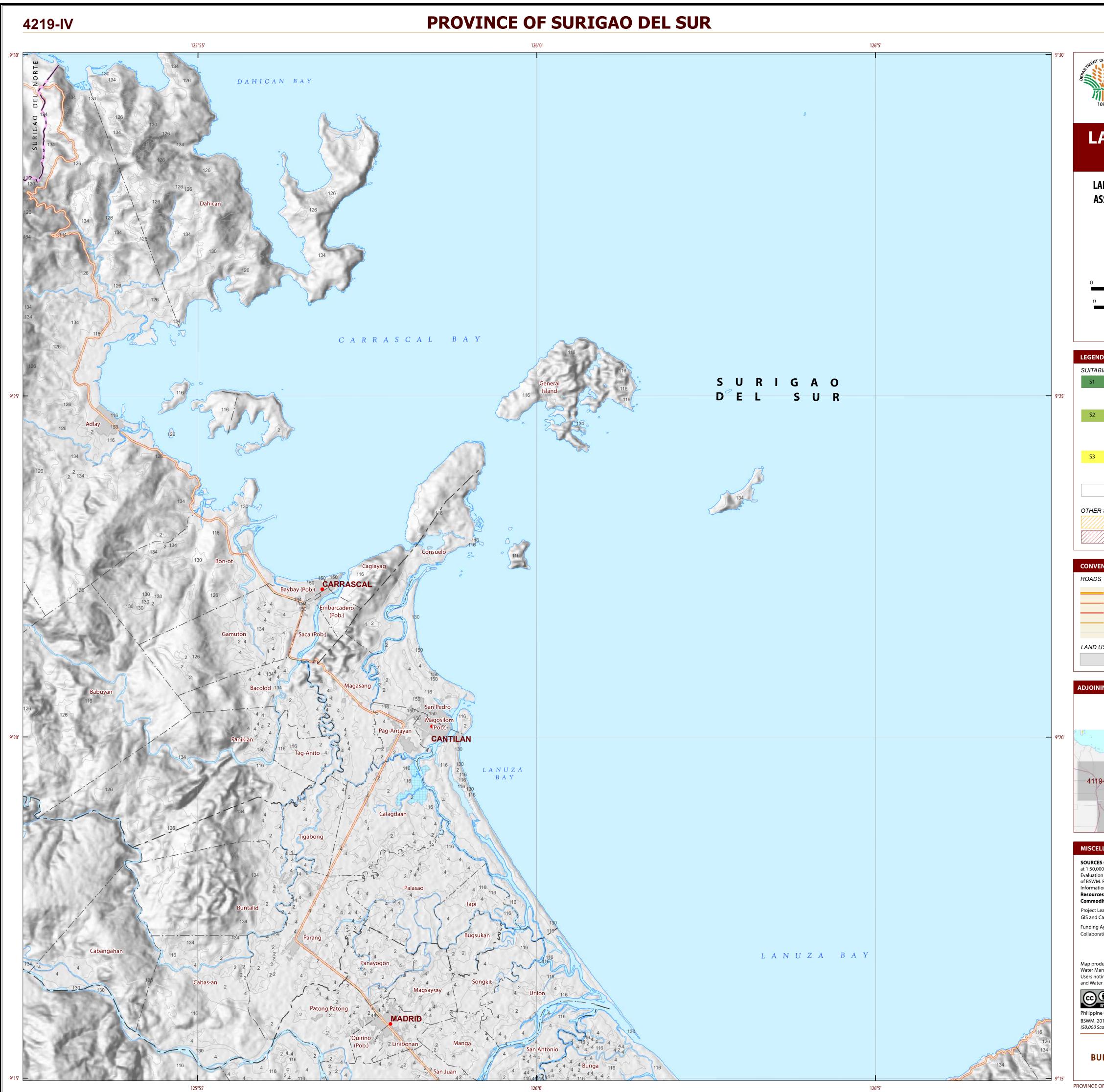
- period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
- **TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.



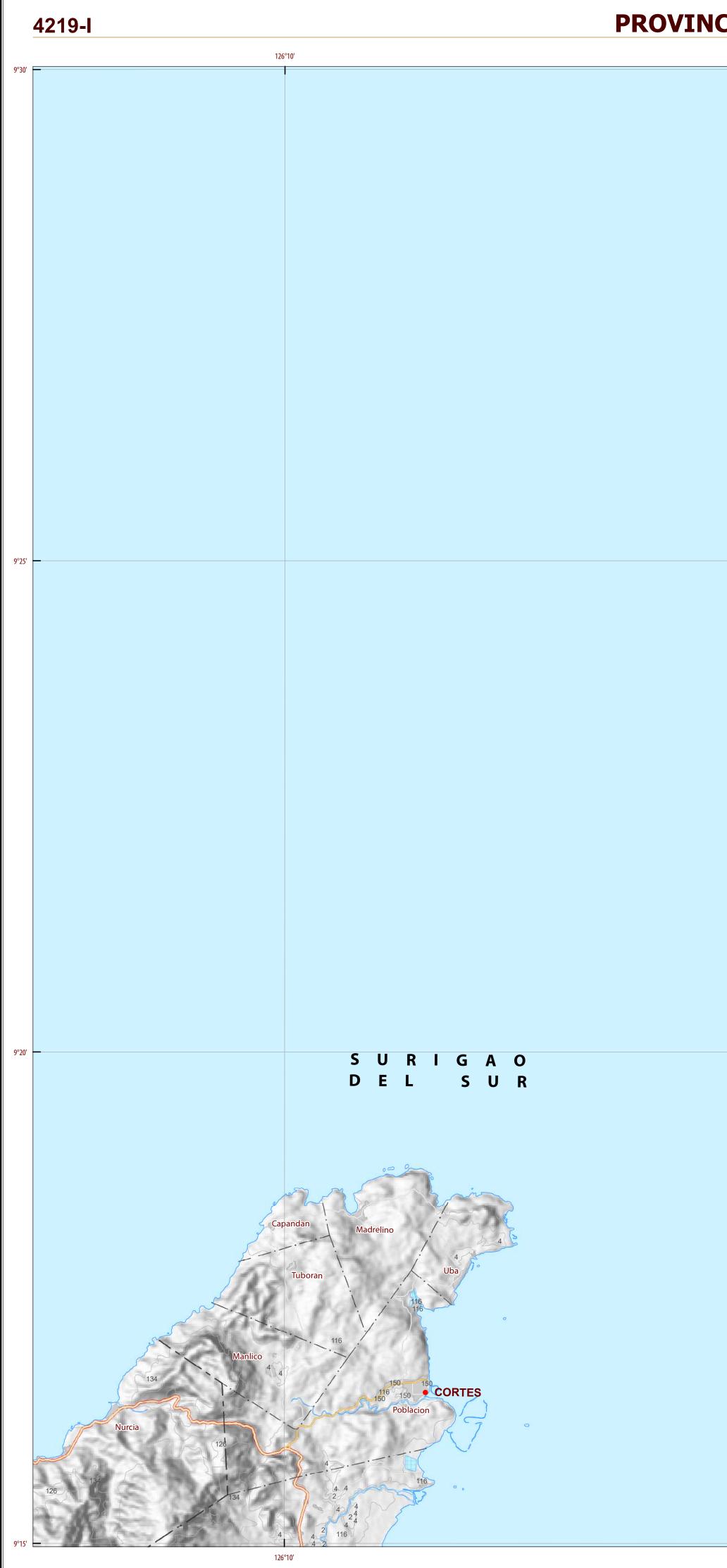
		Socorro
S98	CHARLENT OF AGRICULTUR	1898
	UITABII BICA CO	LITY MAP
		AND SUITABILITY ODUCTION AREAS
	W - E	
0.5 1	<b>SCALE 1:500</b> 2 3 Kilometers	<b>00</b> <u>4</u> 5 <u>2</u> 3
	Miles sverse Mercator Zone 51 N All political boundaries ar	
D		
Highly Suitable application of a g cantly reduce pro an acceptable lev	yiven use, or only minor oductivity or benefits an vel.	icant limitations to sustained r limitations that will not signifi- nd will not raise inputs above itations which in aggregate are
will reduce produ extent that the o attractive, will be	uctivity or benefits and verall advantage to be appreciably inferior to	tion of a given use; the limitations increase required inputs to the gained from the use, although still that expected on class S1 land. tations which in aggregate are
severe for sustain	ned application of a giv or increase required in ustified.	en use and will so reduce produc- puts, that this expenditure will be
SIGNS NGP Areas Cacao	Land limita	tion
NTIONAL SIGNS		
NTIONAL SIGNS Expressway Trunk line Primary Secondary Tertiary JSE Built-up	DUNDARY Region Province District Municipality Barangay	HYDROLOGY Sea / Shoreline Lakes / Rivers PLACES ★ Capital City / City ● Capital Town / Town
Expressway Trunk line Primary Secondary Tertiary	Region Province District Municipality Barangay	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town
Expressway Trunk line Primary Secondary Tertiary	Region Province District Municipality Barangay	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town
Expressway Trunk line Primary Secondary Tertiary <i>ISE</i> Built-up	Region Province District Municipality Barangay Fishpond	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Mangrove
Expressway Trunk line Primary Secondary Tertiary NG SHEETS A120-II	<ul> <li>Region</li> <li>Province</li> <li>District</li> <li>Municipality</li> <li>Barangay</li> </ul>	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Mangrove
Expressway Trunk line Primary Secondary Tertiary	Region   Province   District   Municipality   Barangay   Fishpond   Fishpond   Fishpond   Understand   Alternation from the Agric of the Agric of	Sea / Shoreline   Lakes / Rivers   PLACES
Expressway Trunk line Primary Secondary Tertiary	Region   Province   District   Municipality   Barangay   Fishpond	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Capital Tow
Expressway Trunk line Primary Secondary Tertiary	Region Province District Municipality Barangay Fishpond Fishpond Altice Altice Province District Municipality Barangay Fishpond Municipality Barangay Altice Barangay Municipality Barangay Altice Barangay Al	Sea / Shoreline Lakes / Rivers PLACES A Capital City / City C Capital Town / Town C Capital Town C Capital Town / Town C Capital Town



		Carrascal
B98	SELVENT OF AGRICULT	1898
	UITABIL BICA CO	ITY MAP FFEE
	ES EVALUATION A F STRATEGIC PRO	
0.5 1	<b>SCALE 1:50 00</b> 2 3 Kilometers 1 2	2 3
	Miles nsverse Mercator Zone 51 N. F All political boundaries are r	
D		
BILITY CLASSES Highly Suitable application of a g cantly reduce pro an acceptable let Moderately Suit moderately seve	given use, or only minor li oductivity or benefits and vel. <b>table</b> - Land having limita re for sustained applicatio	ant limitations to sustained mitations that will not signifi- will not raise inputs above tions which in aggregate are on of a given use; the limitations crease required inputs to the
attractive, will be Marginally Suit severe for sustain	e appreciably inferior to th <b>able</b> - Land having limitat ned application of a given , or increase required inpu ustified.	ined from the use, although still nat expected on class S1 land. ions which in aggregate are use and will so reduce produc- its, that this expenditure will be
SIGNS NGP Areas Cacao	Land limitatio	n
<u></u>		
NTIONAL SIGNS		
	OUNDARY Region Province District	HYDROLOGY Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town
Expressway Trunk line Primary Secondary Tertiary	OUNDARY Region Province District Municipality Barangay	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town
Expressway Trunk line Primary Secondary Tertiary USE Built-up ING SHEETS 4119-1	OUNDARY Region Province District Municipality Barangay Fishpond	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Mangrove
Expressway Trunk line Primary Secondary Tertiary USE Built-up ING SHEETS A119-1	OUNDARY Region Province District Municipality Barangay Fishpond 4120-II 4219-IV 19-II 4219-III	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Mangrove
Expressway Trunk line Primary Secondary Tertiary	OUNDARY   Region   Province   District   Municipality   Barangay   Fishpond   Image:	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Capital Town / Town Mangrove NDEX MAP COMPANY COMPAN
Expressway Trunk line Primary Secondary Tertiary USE Built-up ING SHEETS A1119-1 4119-	OUNDARY   Region   Province   District   Municipality   Barangay   Fishpond     4120-II   4219-IV   4219-IV     19-II   4219-IV   19-II   4219-IV     ARDO B. PASCUA   K. SAMALCA   artment of Agriculture - Burea   pine Council on Agriculture   and Soil Information Technol   in this publication are reques	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Capital Tow
Expressway Trunk line Primary Secondary Tertiary USE Built-up USE Built-up USE Built-up USE Built-up USE COF INFORMATION - T USC ALANEOUS INFOR A119-1 4119-1 4119-1 4119-1 4119-1 4119-1 0 scale. Land resources D Scale. Land Suitability Ma Cale. C BY NC SA A.	OUNDARY   Region   Province   District   Municipality   Barangay   Fishpond     4120-II   4219-IV   4219-IV   19-II   4219-IV     Ingent All and the analysis and comparison of some the analysis and comparison (SSD) and I compare the analysis and compa	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Capital Capital City / City Capital City / City / City / City Capital City / Ci
Expressway Trunk line Primary Secondary Tertiary USE Built-up USE Built-up CATOS Built-up CATOS Built-up CATOS CONSTREETS	OUNDARY   Region   Province   District   Municipality   Barangay   Fishpond   (1) (1	Sea / Shoreline Lakes / Rivers PLACES Capital City / City Capital Town / Town Capital Town / Town Capital Town / Town Comparison Mangrove INDEX MAP COMPANIENT COMPA



	Madrid
B98 COLUMNUM	1898
AND SUITABILIT ARABICA COFF	EE
IND RESOURCES EVALUATION AND S SSESSMENT OF STRATEGIC PRODUCT	
SCALE 1:50 000         0.5       1       2       3         Kilometers         0.5       1       2         Miles         Universal Transverse Mercator Zone 51 N. PRS 1992	4 5 3
DISCLAIMER : All political boundaries are not authority	
<ul> <li>BILITY CLASSES</li> <li>Highly Suitable - Land having no significant limit application of a given use, or only minor limitation cantly reduce productivity or benefits and will not an acceptable level.</li> <li>Moderately Suitable - Land having limitations w moderately severe for sustained application of a gwill reduce productivity or benefits and increase rextent that the overall advantage to be gained from attractive, will be appreciably inferior to that experiments and increase required for sustained applications where for sustained applications of a given use and tivity or benefits, or increase required inputs, that only marginally justified.</li> <li>Not Suitable/ Not Relevant</li> </ul>	hich in aggregate are iven use; the limitations equired inputs to the im the use, although still cted on class S1 land. iich in aggregate are d will so reduce produc-
SIGNS       NGP Areas       Cacao         Land limitation       Land use	
NTIONAL SIGNS BOUNDARY HYDRO Expressway Trunk line Primary Secondary Tertiary Barangay Built-up Fishpond	Sea / Shoreline Lakes / Rivers
ING SHEETS	NDEX MAP
4219-IV 4120-II 4219-IV 4219-IV 4119-II 4219-III	
	AMPIA Topographic Map
5 OF INFORMATION : Topographic information taken from N 10 scale. Land resources information from the Agricultural Lan n Division (ALMED), Soils Survey Division (SSD) and Laborato Rice areas obtained from the Land Use System (FAO, 2015) a on System (PRISM) (IRRI, 2015). Data analysis and compilation <b>tes Evaluation and Suitability Assessment of Strategic Pro- lities Project</b> implemented by BSWM (2017). eader : BERNARDO B. PASCUA Cartography : IRVIN K. SAMALCA Agency : Department of Agriculture - Bureau of Agri titing Agencies : Philippine Council on Agriculture and Fish : Department of Agriculture and Fisheries - Agriculture Regional Field Office of Regior : Local Government Unit (LGU) of covered p	nd Management and ry Services Division (LSD) nd Philippine Rice in through the <b>Land</b> duction Areas for Major icultural Research (DA-BAR) eries (PCAF) ARMM, Department of in IX, X, XI, XII and XIII (Caraga)
Local Government Unit (LGO) of covered p luced by the Geomatics and Soil Information Technology Div nagement (BSWM). ing errors or omissions in this publication are requested to ir r Management.	ision, Bureau of Soils and
This publication is licensed under a Creative International License. Unless otherwise not intellectual property rights, in this publication e Government. This publication should be attributed as : 019. Land Suitability Map Series for Arabica Coffee of the PROVIN cale). CC BY NC SA 4.0.	ed, copyright and any other on is owned by the
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTU REAU OF SOILS AND WATER MAN SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Queze Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yal	RE IAGEMENT on City 1101



# **PROVINCE OF SURIGAO DEL SUR** 126°15' 126°20' P H I L I P P I N E S E A

9°15'

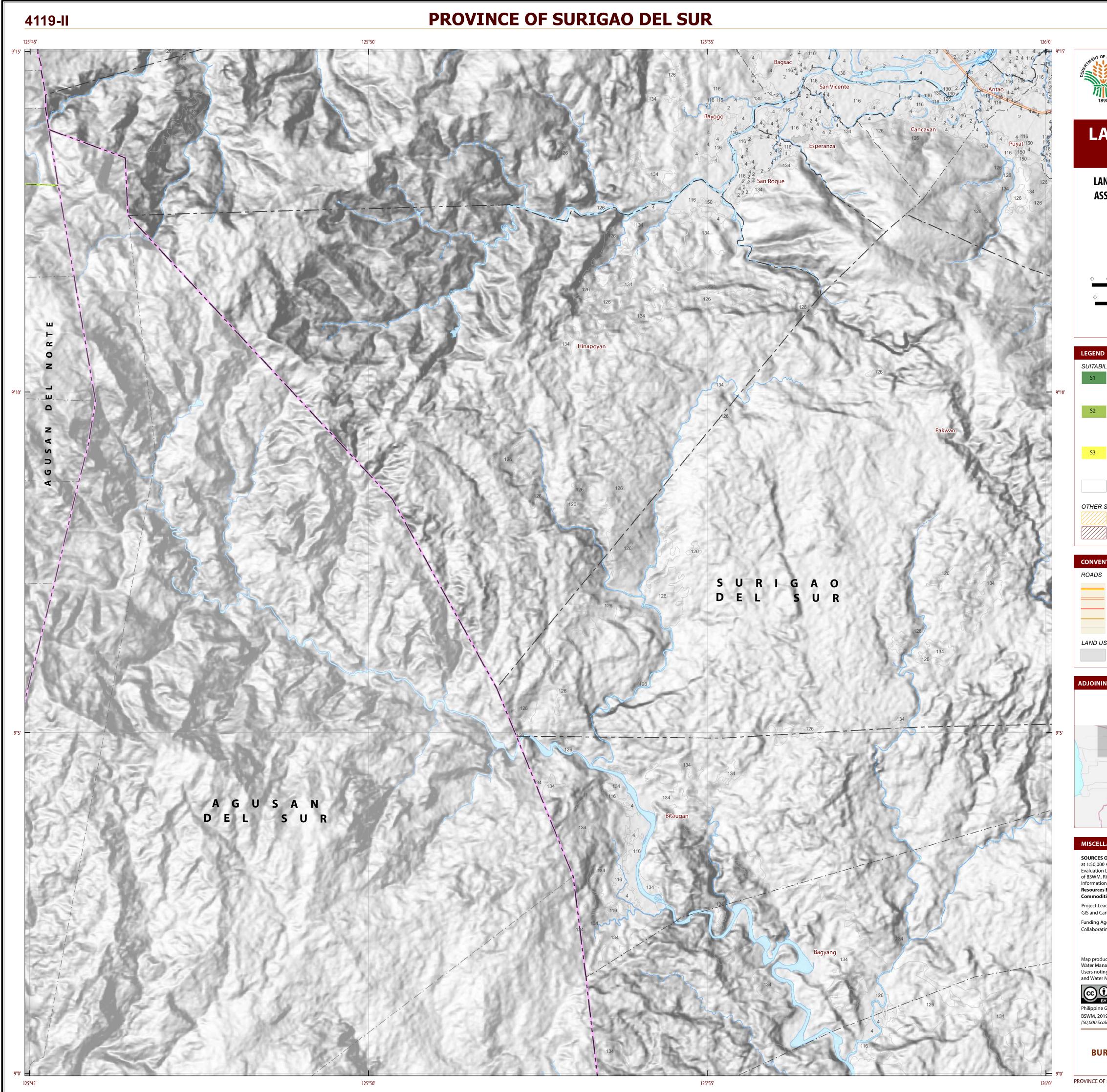
126°20'

9°25'

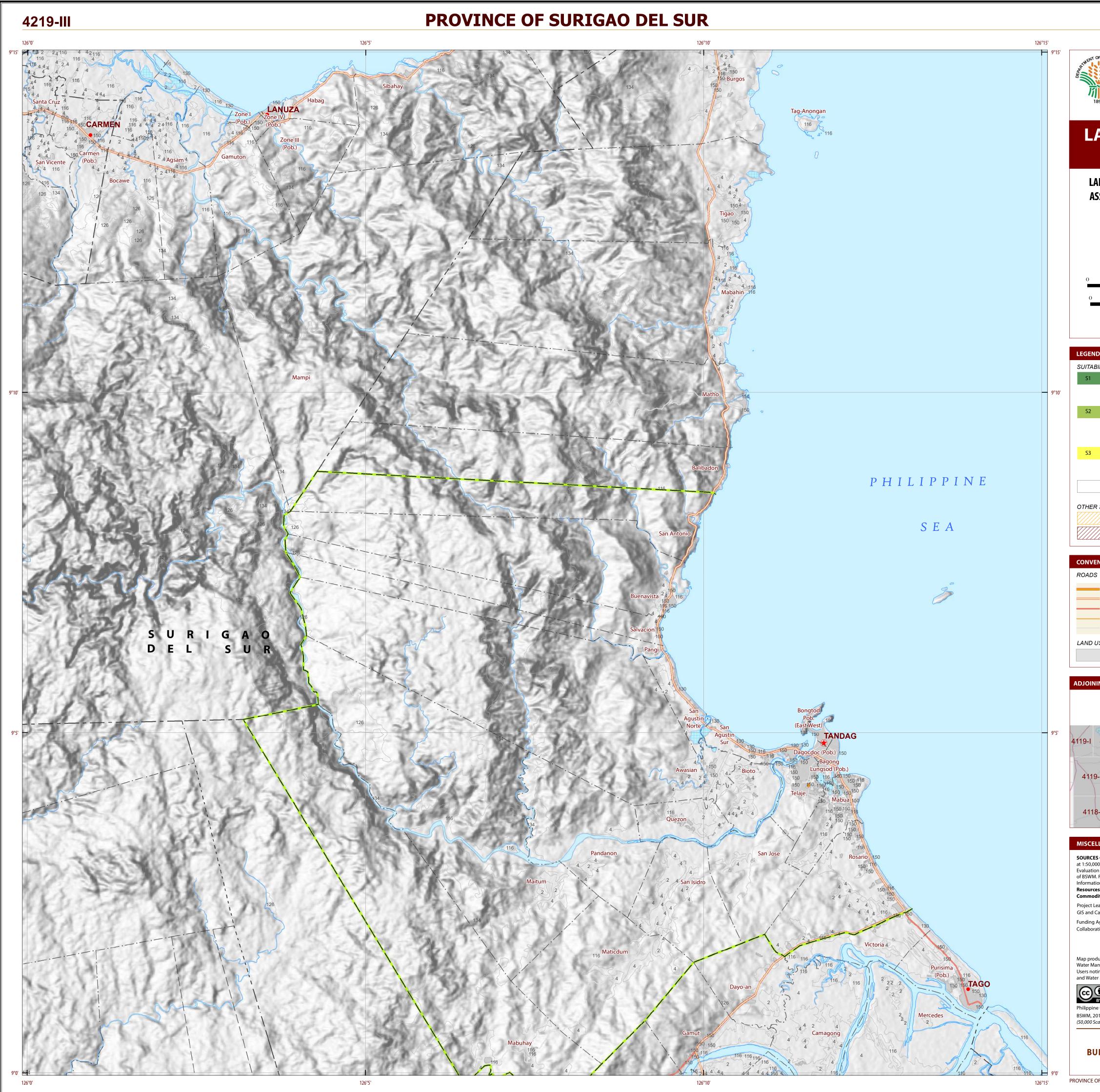
LANUZA BAY

126°15'

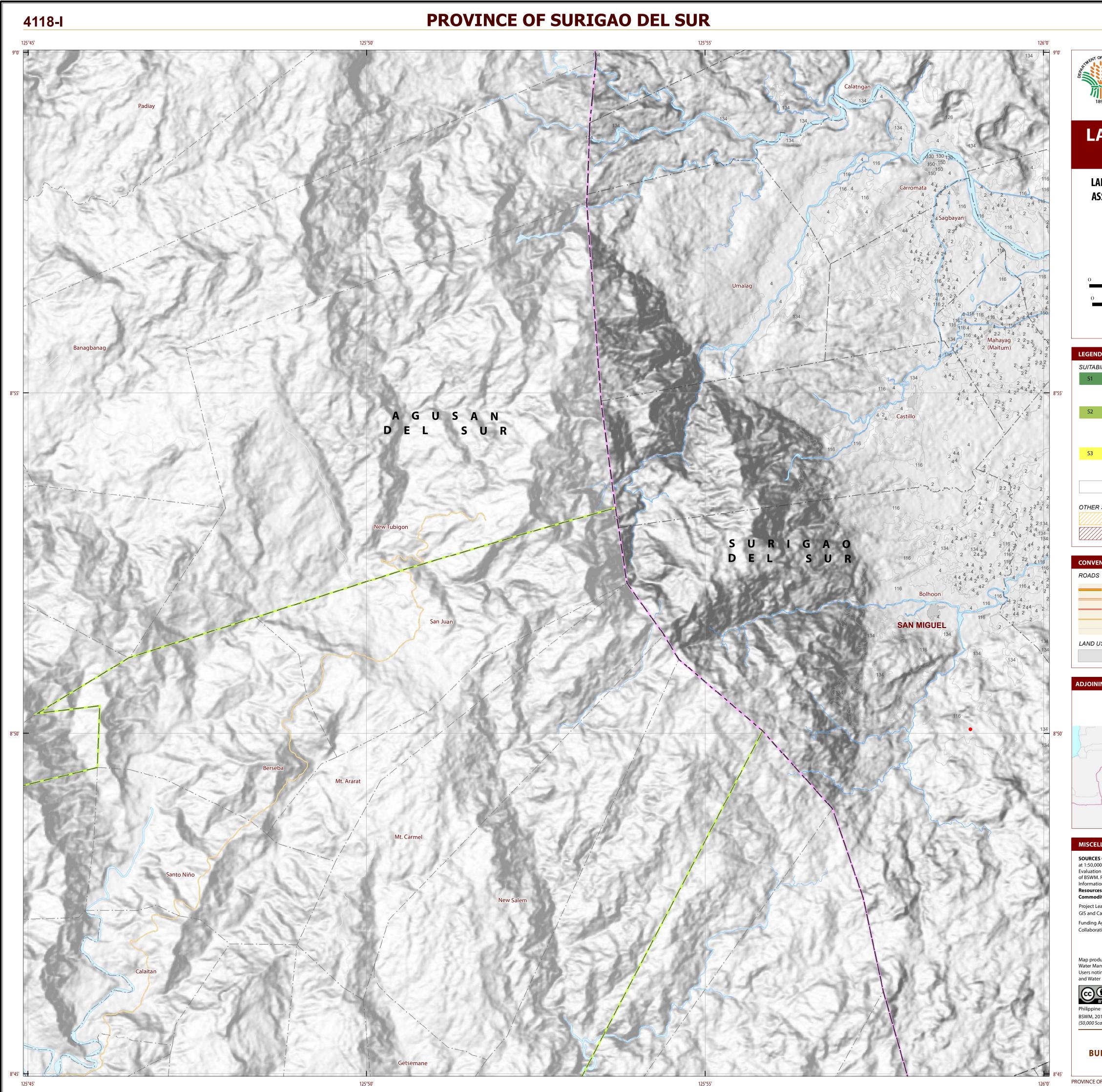
	Cortes
R98 COLUMN AGRICULT MAN 1990	1898
LAND SUITABILIT ARABICA COF	
LAND RESOURCES EVALUATION AND ASSESSMENT OF STRATEGIC PRODUC	
SCALE 1:50 000	
	4 5
Kilometers 0 0.5 1 2 Miles Universal Transverse Mercator Zone 51 N. PRS 19 DISCLAIMER : All political boundaries are not au	
LEGEND	
SUITABILITY CLASSES         S1       Highly Suitable - Land having no significant line application of a given use, or only minor limitaticantly reduce productivity or benefits and will rean acceptable level.         S2       Moderately Suitable - Land having limitations moderately severe for sustained application of will reduce productivity or benefits and increase extent that the overall advantage to be gained attractive, will be appreciably inferior to that extension of a severe for sustained application of a given use a tivity or benefits, or increase required inputs, the only marginally justified.         Not Suitable/ Not Relevant	ions that will not signifi- not raise inputs above which in aggregate are a given use; the limitations e required inputs to the from the use, although still pected on class S1 land. which in aggregate are and will so reduce produc-
OTHER SIGNS NGP Areas Cacao	
CONVENTIONAL SIGNS         ROADS       BOUNDARY       HYD         Expressway       Region         Trunk line       Province         Primary       District       PLAC         Secondary       Municipality       Tertiary         LAND USE       Built-up       Fishpond	ROLOGY Sea / Shoreline Lakes / Rivers CES Capital City / City Capital Town / Town
ADJOINING SHEETS 4219-I 4219-IV 4219-IV 4219-II 4119-II 4219-III	INDEX MAP
E.	) <del>(</del>
MISCELLANEOUS INFORMATION         SOURCES OF INFORMATION : Topographic information taken from at 1:50,000 scale. Land resources information from the Agricultural Evaluation Division (ALMED), Soils Survey Division (SSD) and Labora of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) Information System (PRISM) (IRRI, 2015). Data analysis and compilate Resources Evaluation and Suitability Assessment of Strategic P Commodities Project implemented by BSWM (2017).         Project Leader       : BERNARDO B. PASCUA         GIS and Cartography       : IRVIN K. SAMALCA         Funding Agency       : Department of Agriculture - Bureau of <i>I</i> : Department of Agriculture and Fisherie Agriculture Regional Field Office of Reg       : Local Government Unit (LGU) of coveree         Map produced by the Geomatics and Soil Information Technology I       : Sources and Soil Information Technology I	Land Management and atory Services Division (LSD) 5) and Philippine Rice cion through the <b>Land</b> <b>roduction Areas for Major</b> Agricultural Research (DA-BAR) sheries (PCAF) s - ARMM, Department of ion IX, X, XI, XII and XIII (Caraga) d provinces and municipalities
Water Management (BSWM). Users noting errors or omissions in this publication are requested to and Water Management. This publication is licensed under a Creat International License. Unless otherwise r	o inform the Bureau of Soils ive Commons Attribution 4.0 loted, copyright and any other
BY NC SA intellectual property rights, in this public Philippine Government. This publication should be attributed as : BSWM, 2019. Land Suitability Map Series for Arabica Coffee of the PRC (50,000 Scale) . CC BY NC SA 4.0. REPUBLIC OF THE PHILIPPIN	OVINCE OF SURIGAO DEL SUR
DEPARTMENT OF AGRICULT BUREAU OF SOILS AND WATER MA SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Qu Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@	URE NAGEMENT ezon City 1101
PROVINCE OF SURIGAO DEL SUR Shee	t 4 of 17 Sheet No. 4219-I



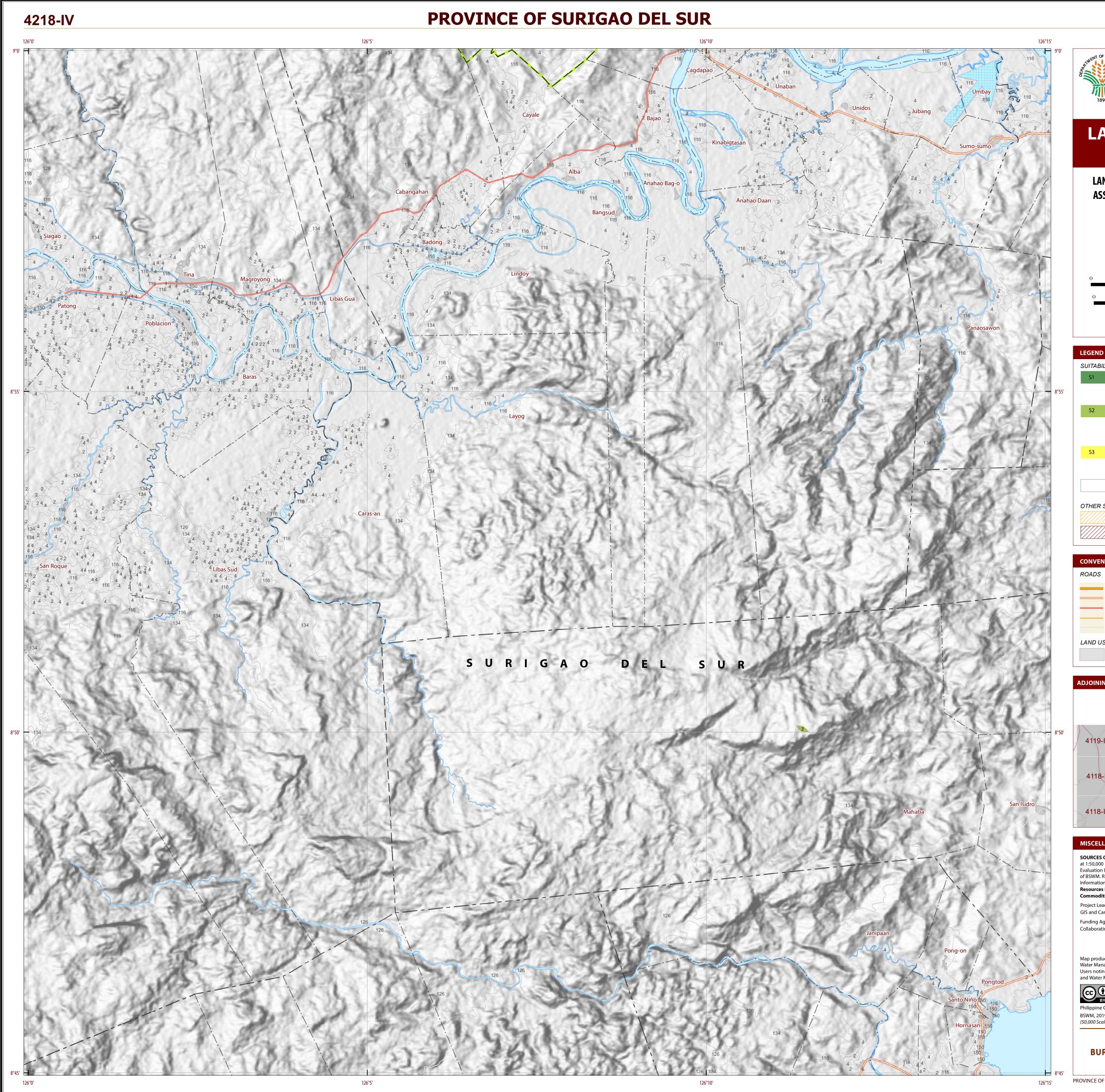
		Bit	augan
DF AGRICULTURE 898	BERNENT OF AGAICLE	DEPART	NT OF AGALLIUR 1898
AND SU ARAE	JITABI BICA C		
ND RESOURCE SSESSMENT OF			
S	W- S SCALE 1:50	E 000	
0.5 1	2 3 Kilometers		3
	verse Mercator Zone 51 I political boundaries a		
<ul> <li>application of a given cantly reduce processing an acceptable level</li> <li>Moderately Suital moderately severe will reduce produce extent that the owe attractive, will be a Marginally Suital severe for sustained</li> </ul>	<b>ble</b> - Land having lir for sustained applic ctivity or benefits and erall advantage to be appreciably inferior t <b>ble</b> - Land having lim ed application of a gi or increase required i stified.	or limitations that and will not raise mitations which in cation of a given u d increase require e gained from the to that expected o nitations which in iven use and will s	will not signifi- inputs above aggregate are se; the limitations d inputs to the use, although still n class S1 land. aggregate are o reduce produc-
R SIGNS NGP Areas Cacao	Land limit Land use	ation	
NTIONAL SIGNS			
Expressway Expressway Trunk line Primary Secondary Tertiary	UNDARY Region Province District Municipality Barangay	PLACES Y 🛠 ★ Capi	Y ea / Shoreline ikes / Rivers tal City / City tal Town / Town
Built-up	Fishpond	Mangro INDEX	
4119-I			
4119-I 421 <b>4119-II</b> 4118-I	9-IV 4219-I 4219-III 4218-IV		
LANEOUS INFORM	IATION		
Cartography : IRVIN K Agency : Depar ating Agencies : Philipp : Depar Agricu : Local C	nformation from the Ac Survey Division (SSD) a in the Land Use System 2015). Data analysis and <b>bility Assessment of S</b> ed by BSWM (2017). RDO B. PASCUA . SAMALCA tment of Agriculture - E bine Council on Agricult tment of Agriculture ar lture Regional Field Off Government Unit (LGU)	gricultural Land Man and Laboratory Servi (FAO, 2015) and Phil d compilation throug trategic Production sureau of Agricultura ture and Fisheries (Pr ad Fisheries - ARMM, fice of Region IX, X, X of covered province	agement and ices Division (LSD) ippine Rice gh the Land Areas for Major al Research (DA-BAR) CAF) Department of SI, XII and XIII (Caraga) es and municipalities
	n this publication are re blication is licensed uno	quested to inform th der a Creative Comm	ne Bureau of Soils
BY NC SA intellect e Government. This publi D19. Land Suitability Map S cale) . CC BY NC SA 4.0.	Series for Arabica Coffee	this publication is ov uted as : of the PROVINCE OF	vned by the
DEPART	IC OF THE PHI MENT OF AGR		
	LS AND WATI bad Cor. Visayas Avenue, I 332-9534 E-mail : bswmc	Diliman, Quezon City 1	



B98 COLOR DE LA CO	
AND SUITABILITY MAP ARABICA COFFEE	
ND RESOURCES EVALUATION AND SUITABILITY SSESSMENT OF STRATEGIC PRODUCTION AREAS	
W-E S	
SCALE 1:50 000           0.5         1         2         3         4         5	
Kilometers           0.5         1         2         3	
Miles Universal Transverse Mercator Zone 51 N. PRS 1992 Datum DISCLAIMER : All political boundaries are not authoritative.	
<ul> <li>BILITY CLASSES</li> <li>Highly Suitable - Land having no significant limitations 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.</li> <li>Moderately Suitable - Land having limitations 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 sattractive, will be appreciably inferior to that expected on class S1 land.</li> <li>Marginally Suitable - 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 only marginally justified.</li> <li>Not Suitable/ Not Relevant</li> </ul>	ons still
SIGNS       NGP Areas       Cacao   Land limitation Land use	
NTIONAL SIGNS	
BOUNDARY     HYDROLOGY       Expressway     Region       Trunk line     Province       Primary     District       Secondary     Municipality	n
Tertiary — • — Barangay 💿 • Capital Town / Towr	
Tertiary — • — Barangay () • Capital Town / Towr <i>ISE</i> Built-up Fishpond Mangrove	
ISE Built-up Fishpond Mangrove	
ISE Built-up Fishpond Mangrove	
ISE Built-up Fishpond Mangrove ING SHEETS INDEX MAP	
ASE Built-up Fishpond Mangrove ING SHEETS INDEX MAP 4219-IV 4219-I INDEX MAP	
ASE Built-up Fishpond Mangrove ING SHEETS INDEX MAP 4219-IV 4219-I I 4219-III	
ING SHEETS INDEX MAP 4219-IV 4219-I 4219-IV 4219-I 4219-IV 4219-I 4219-IV 4219-I 4219-IV 4219-I 4219-IV 4219-I	
INCOMPATION : Topographic information taken from NAMRIA Topographic Margowe INCOMPATION : Topographic information taken from NAMRIA Topographic Margo INCOMPATION : TOPOGRAPHICON (SSC) and Laboratory Services Division (SSC) Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice INCOMPATION : ENTRON SERVICE NOT SERVICE NOT A A A A A A A A A A A A A A A A A A A	)) <b>r</b> (AR)
INCLUSION OF CARACTERIA IN COMPANY IN COMPAN	)) r (AR) (raga) ties d
ISE Bult-up Fishpond Margove INDEX HEETS INDEX MAR 4219-1V 4219-1 4219-1V 4219-1 4219-1V 4219-1 4219-1V 4219-1 4219-1V 4219-1 4219-1V 4219-1 5219-1V 4219-1 52	)) r (AR) ties d s 4.0 ther
ISE Builup Fishpon Magnet ING SHEETS INDEX MAD BUILUP U U U U U U U U U U U U U U U U U U	)) r (AR) ties d s 4.0 ther



	Tamba	goko River
B98	MENT OF AGRICULT	1898
AND SUI ARABI	TABILI CA COI	
ND RESOURCES E SSESSMENT OF ST		
v	V - E S	
0.5 1 SCA	<b>LE 1:50 000</b> 2 3 Kilometers	4 5
	Miles Mical boundaries are not	
D BILITY CLASSES		
<ul> <li>application of a given cantly reduce product an acceptable level.</li> <li>Moderately Suitable moderately severe for will reduce productivit extent that the overall attractive, will be appr</li> <li>Marginally Suitable - severe for sustained appr</li> </ul>	use, or only minor limi ivity or benefits and w - Land having limitatic sustained application ty or benefits and incre advantage to be gain eciably inferior to that Land having limitation oplication of a given us crease required inputs, ed.	I limitations to sustained tations that will not signifi- ill not raise inputs above ons which in aggregate are of a given use; the limitations ease required inputs to the ed from the use, although still expected on class S1 land. Ins which in aggregate are se and will so reduce produc- that this expenditure will be
SIGNS NGP Areas Cacao	Land limitation Land use	
NTIONAL SIGNS	DARY H	/DROLOGY
Expressway Trunk line Primary Secondary Tertiary	<ul> <li>Region</li> <li>Province</li> <li>District</li> <li>Municipality</li> <li>Barangay</li> </ul>	Sea / Shoreline Lakes / Rivers ACES Capital City / City Capital Town / Town
JSE Built-up	Fishpond	R Mangrove
ING SHEETS		
<b>4118-I</b>	1219-III	A Received
	1218-IV	
4118-II 4	4218-III	
LANEOUS INFORMATI		
0 scale. Land resources inforn n Division (ALMED), Soils Surv Rice areas obtained from the on System (PRISM) (IRRI, 2015	nation from the Agricultu rey Division (SSD) and Lak Land Use System (FAO, 2 ). Data analysis and comp <b>Assessment of Strategi</b> y BSWM (2017).	ooratory Services Division (LSD) 015) and Philippine Rice
Cartography : IRVIN K. SAN Agency : Departmer ating Agencies : Philippine ( : Departmer Agriculture : Local Gove	IALCA nt of Agriculture - Bureau Council on Agriculture an nt of Agriculture and Fishe Regional Field Office of F rnment Unit (LGU) of cov	of Agricultural Research (DA-BAR) d Fisheries (PCAF) rries - ARMM, Department of Region IX, X, XI, XII and XIII (Caraga) ered provinces and municipalities gy Division, Bureau of Soils and
nagement (BSWM). ing errors or omissions in this r Management.	publication are requeste	d to inform the Bureau of Soils
BY NC SA Internationa intellectual p e Government. This publication	l License. Unless otherwis property rights, in this pu on should be attributed as	•
DEPARTME REAU OF SOILS SRDC Bldg., Elliptical Road C		TURE IANAGEMENT Quezon City 1101
DF SURIGAO DEL SUR	SI	heet 7 of 17 Sheet No. 4118-I

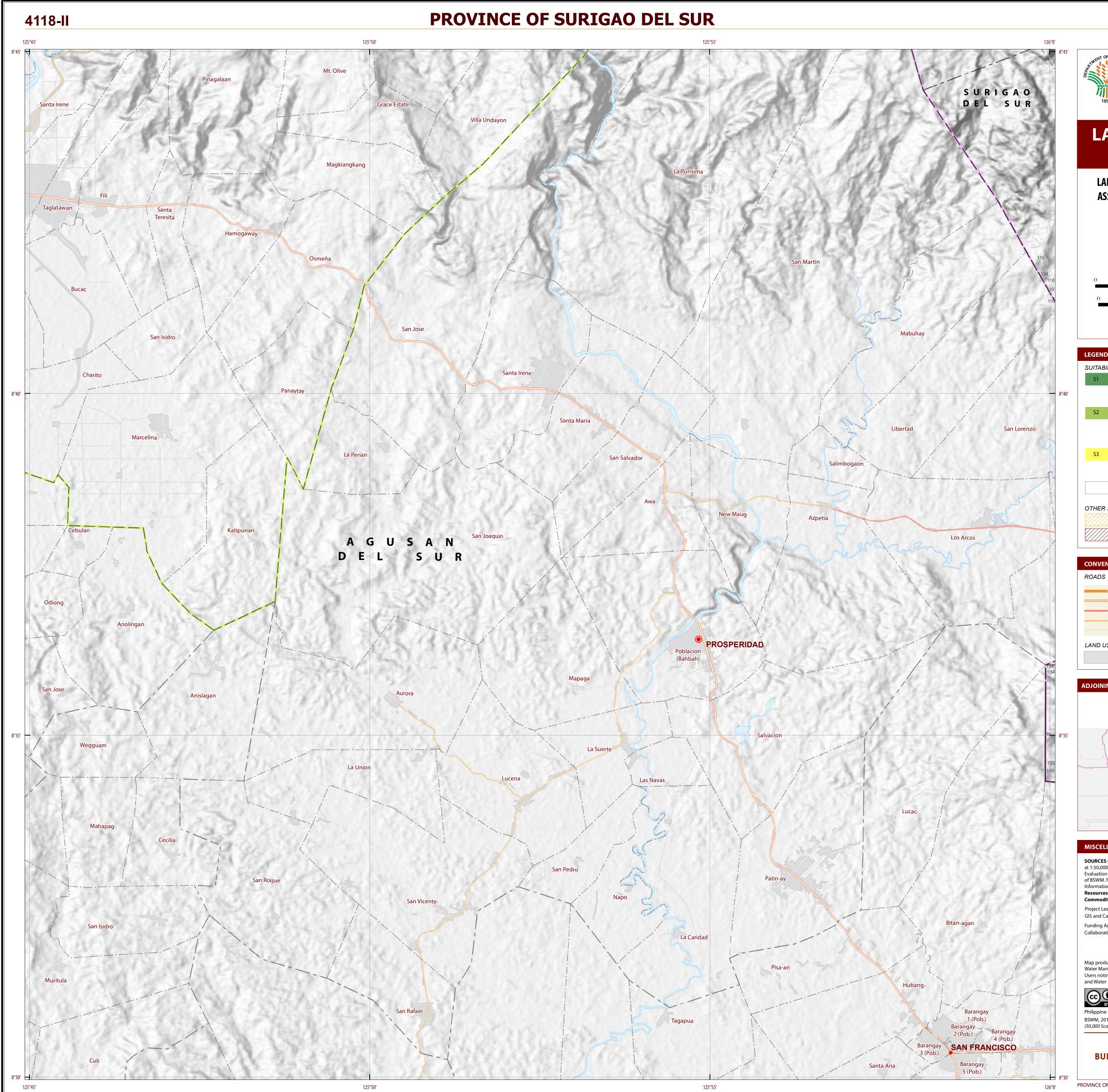


			Alba
B98	PRIMENT OF AGRICULT	ULTURA POST	1898
AND S ARA	UITAB BICA (		
ND RESOURC			
	w - S	►E	
0.5 1	SCALE 1:50 2 Kilometers	<b>) 000</b> 3 <u>2</u>	4 5
	Miles nsverse Mercator Zone All political boundarie		
D			
application of a g	oductivity or benefit	inor limitatior	ns that will not signifi-
moderately seve will reduce produce extent that the o	re for sustained app uctivity or benefits a verall advantage to	lication of a g and increase r be gained fro	hich in aggregate are iven use; the limitations equired inputs to the im the use, although still icted on class S1 land.
severe for sustair	ned application of a , or increase required ustified.	given use and	ich in aggregate are d will so reduce produc- this expenditure will be
SIGNS NGP Areas Cacao	Land lin Land us		
NTIONAL SIGNS			
= Expressway =	OUNDARY		DLOGY Sea / Shoreline
Trunk line	Province		Lakes / Rivers
<ul> <li>Trunk line</li> <li>Primary</li> <li>Secondary</li> <li>Tertiary</li> </ul>	Province District Municipa Barangay	PLACE lity ★ ★ ● ●	Lakes / Rivers
Primary Secondary Tertiary	— — District — — Municipa	ity ★ ● •	Capital City / City
Primary Secondary Tertiary <i>ISE</i> Built-up	District     Municipa     Barangay     Fishpond	ity ★ ● •	Lakes / Rivers S Capital City / City Capital Town / Town
Primary Secondary Tertiary JSE Built-up	District     Municipa     Barangay     Fishpond	ity ★ ● •	Lakes / Rivers S Capital City / City Capital Town / Town
Primary Secondary Tertiary /SE Built-up ING SHEETS 4218-I -II 4219-III	Fishpond	ity ★ ● •	Lakes / Rivers S Capital City / City Capital Town / Town
Primary Secondary Tertiary <i>ISE</i> Built-up <b>ING SHEETS</b> <b>4218-I</b> -II 4219-III	Fishpond	ity ★ ● •	Lakes / Rivers S Capital City / City Capital Town / Town
Primary Secondary Tertiary /SE Built-up ING SHEETS 4218-I -II 4219-III	<ul> <li>District Municipa Barangay</li> <li>Fishpond</li> <li>4218-I</li> <li>4218-II</li> </ul>	ity ★ ● •	Lakes / Rivers S Capital City / City Capital Town / Town
Primary Secondary Tertiary /SE Built-up Built-up ING SHEETS A219-III 4219-III 4218-IV -II 4218-IV -II 4218-IV -II 4218-IV -II 4218-IV SOF INFORMATION : T 0 scale. Land resources n Division (ALMED), Soi Rice areas obtained fro on System (PRISM) (IRR es Evaluation and Suit lities Project implement esader : BERN/ artography : IRVIN Agency : Depa ting Agencies : Philip : Depa Agrice	District Municipa Barangay Fishpond Fishpond V 4218-I 4218-I 4218-I 5 information from the its Survey Division (SSE om the Land Use Syste I, 2015). Data analysis a <b>ability Assessment of</b> need by BSWM (2017). ARDO B. PASCUA K. SAMALCA artment of Agriculture opine Council on Agric artment of Agriculture culture Regional Field of	ity	AMRIA Topographic Map nd Management and ry Services Division (LSD) nd Philippine Rice htrough the Land duction Areas for Major
Primary Secondary Tertiary	District Municipa Barangay Fishpond Fishpond V 4218-I 4218-I 4218-I 4218-II V MATION Fopographic informatic information from the is Survey Division (SSE om the Land Use Syste I, 2015). Data analysis a <b>ability Assessment of</b> nted by BSWM (2017). ARDO B. PASCUA K. SAMALCA artment of Agriculture opine Council on Agric artment of Agriculture culture Regional Field of I Government Unit (LG s and Soil Information in this publication are	ity	AMRIA Topographic Map of Management and ry Services Division (LSD) of Philippine Rice of through the Land duction Areas for Major
Primary Secondary Tertiary JSE Built-up ING SHEETS A210-III A219-III A219-III A218-IV -II BUIT-UP -II A218-IV -II A218-IV -II A218-IV -II A218-IV -II A218-IV -II A218-IV -II A218-IV -II BUIT-UP -II A218-IV -II -II A218-IV -II A218-	District Municipa Barangay Fishpond Fishpond V 4218-I 4218-I 4218-I 4218-I 5 information from the is Survey Division (SSE om the Land Use Syste 1, 2015). Data analysis a <b>ability Assessment of</b> need by BSWM (2017). ARDO B. PASCUA K. SAMALCA artment of Agriculture opine Council on Agric attment of Agriculture opine Council on Agric artment of Agriculture artment of	ity	AMRIA Topographic Map of Management and ry Services Division (LSD) nd Philippine Rice othrough the Land duction Areas for Major
Primary Secondary Tertiary JSE Built-up Built-up A210-II A219-III A219-III A219-III A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV A218-IV BUIT-UP A218-IV	District Municipal Barangay Fishpond Fishpond V 4218-I 4218-I 4218-I 4218-I 5 information from the dis Survey Division (SSE om the Land Use Syste 1, 2015). Data analysis a <b>ability Assessment of</b> need by BSWM (2017). ARDO B. PASCUA K. SAMALCA artment of Agriculture opine Council on Agriculture culture Regional Field O artment of Agriculture culture Regional Field O I Government Unit (LG is and Soil Information in this publication are ublication is licensed u actual property rights, i pications should be atture present of Agriculture culture Regional Field O I Government Unit (LG is and Soil Information in this publication are ublication should be atture present of Agriculture culture culture Regional Field O I Government Unit (LG is and Soil Information are ublication should be atture present of Agriculture contained the intervent of Agriculture culture culture Regional Field O I Government Unit (LG is and Soil Information are ublication are for Arabica Coff BLIC OF THE PH	ity	AMRIA Topographic Map danagement and ry Services Division (LSD) nd Philippine Rice through the Land duction Areas for Major

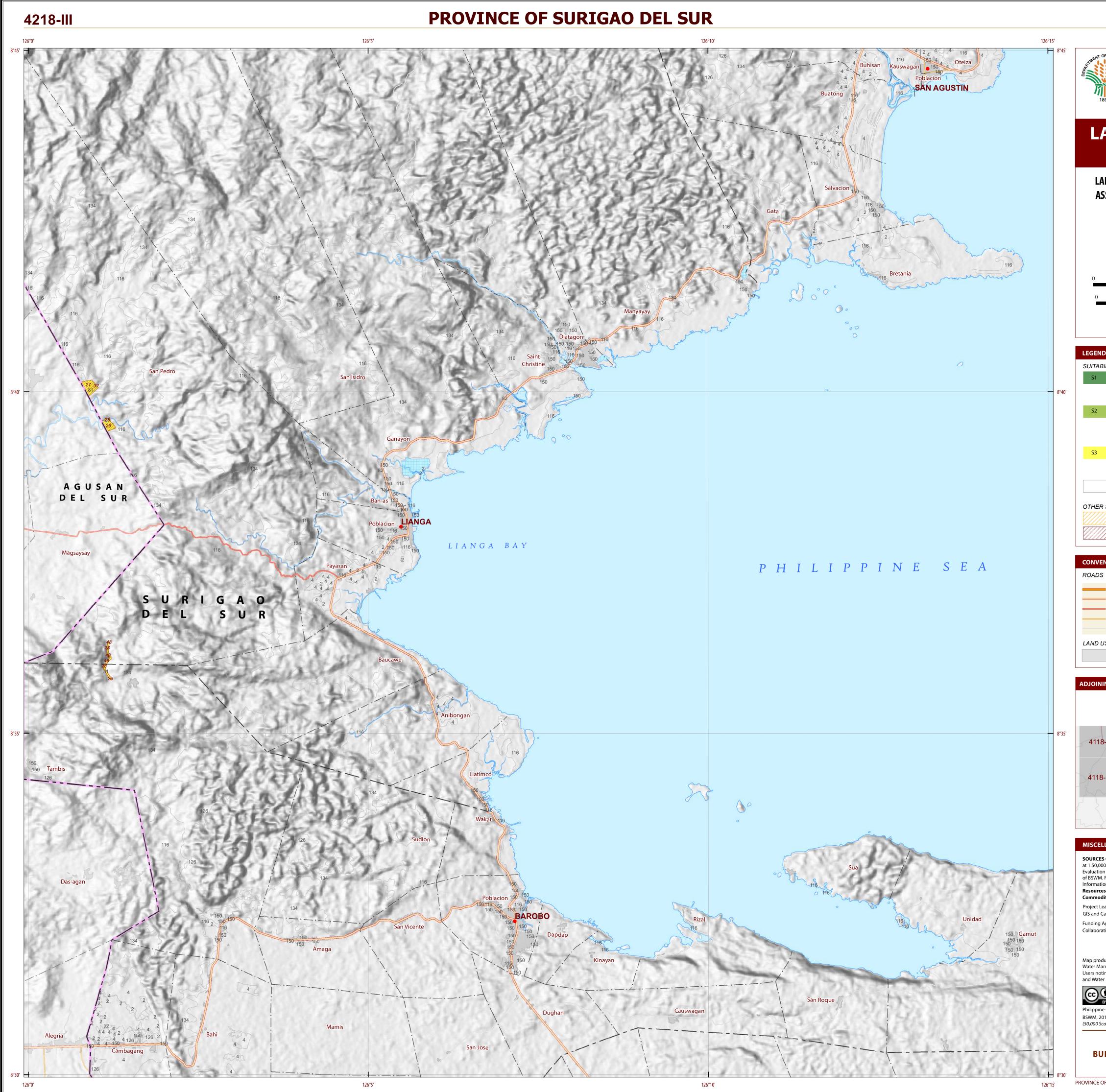


E OF SURIGAO	DEL S	UR							
		126°25'						126°30' 9°0'	LAN ASS
	ΡH	I L	I P	ΡI	N E	z s	ЕA	8°55'	0 LEGEND SUITABIL S1
D									S2
		126°25'						8°50' 8°50'	4219-II 4218-IV 4218-IV 4218-II 4218-II VISCELLA SOURCES O at 1:50,000 s Evaluation D of BSWM. Rid Information Resources E Commoditie Project Lead GIS and Cart Funding Age Collaboration Map produc Water Mana- Users noting and Water M Discussion Users noting and Water M Discussion BSWM, 2019 (50,000 Scale BUR

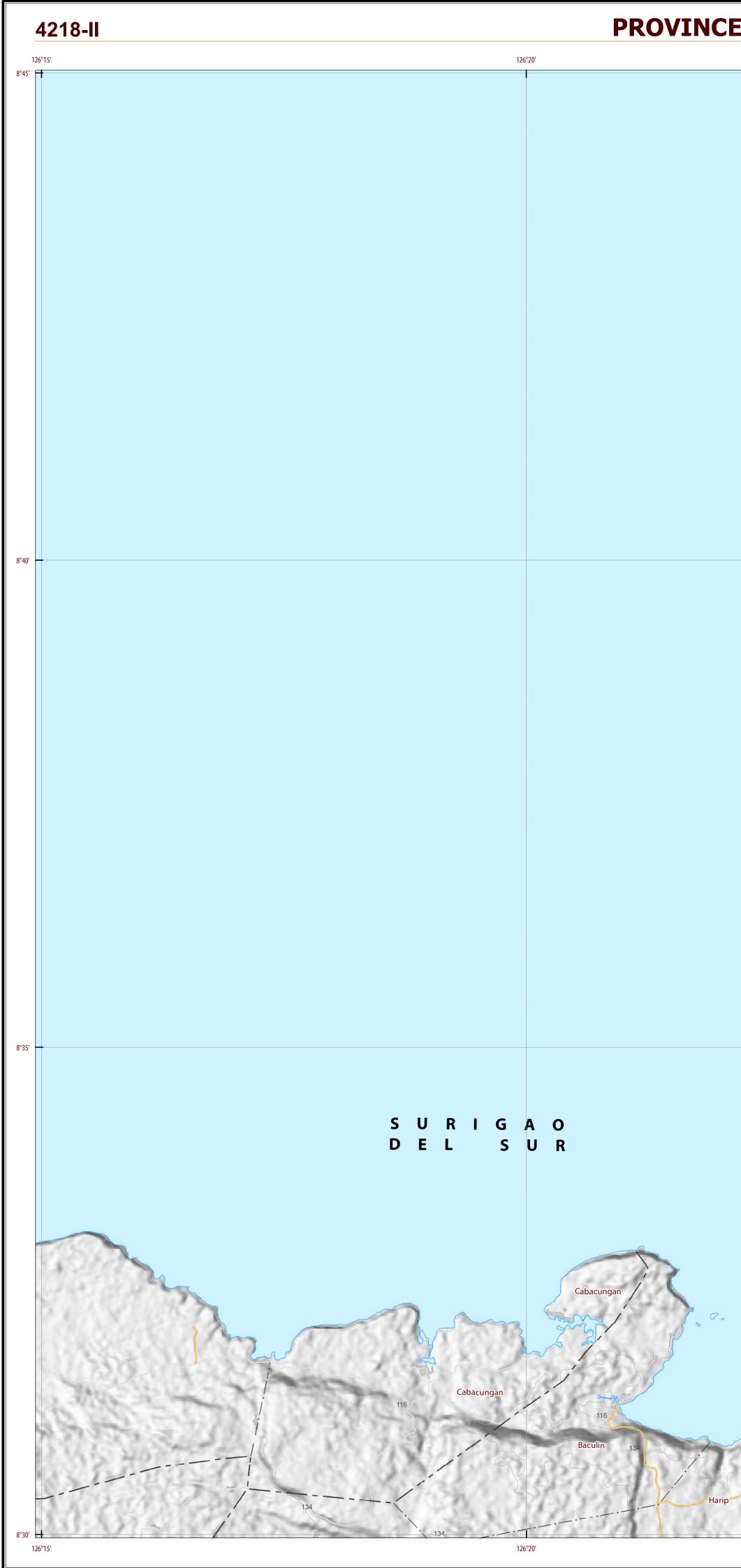
			Cagwait
B98	CHILDER AGAROLI	RICULTURALISS	1898
	SUITAB ABICA (		Y MAP FEE
	CES EVALUATI OF STRATEGIC		
	w-	FE	
0.5 1	SCALE 1:5	<b>0 000</b> 3	4 5
0.5	Kilometer 1 Miles	2	3
	ransverse Mercator Zon R : All political boundar		
application of a cantly reduce p an acceptable Moderately Ser will reduce pro extent that the attractive, will Marginally Su severe for susta	a given use, or only n productivity or benef level. uitable - Land having vere for sustained ap oductivity or benefits e overall advantage to be appreciably inferi- nitable - Land having ained application of its, or increase require y justified.	ninor limitati fits and will n plication of a and increase o be gained f or to that exp limitations v a given use a	which in aggregate are given use; the limitations required inputs to the rom the use, although still bected on class S1 land. which in aggregate are nd will so reduce produc- at this expenditure will be
NGP Areas Cacao	Land li 116 Land u	mitation se	
<ul> <li>Expressway</li> <li>Trunk line</li> <li>Primary</li> <li>Secondary</li> <li>Tertiary</li> </ul>	BOUNDARY Region Province District Municipa Barangay	PLAC	Capital City / City Capital Town / Town
Built-up	Fishpond	<u> Antina</u>	Mangrove
4218	-1		
-IV <b>4218</b> - -III 4218-I		R	
	: Topographic informati		NAMRIA Topographic Map
n Division (ALMED), S Rice areas obtained on System (PRISM) (II se Evaluation and Su lities Project implem eader : BER Cartography : IRV Agency : De ting Agencies : Ph : De Agency : De	from the Land Use Syste RRI, 2015). Data analysis <b>uitability Assessment o</b> nented by BSWM (2017) RNARDO B. PASCUA IN K. SAMALCA epartment of Agricultur ilippine Council on Agri epartment of Agricultur griculture Regional Field	D) and Labora em (FAO, 2015) and compilati of Strategic Pr e - Bureau of A iculture and Fis e and Fisheries l Office of Regi	tory Services Division (LSD) and Philippine Rice on through the <b>Land</b> oduction Areas for Major gricultural Research (DA-BAR)
nagement (BSWM).			ivision, Bureau of Soils and inform the Bureau of Soils
This This This This This Inter- the Second Suitability N	ernational License. Unlee ellectual property rights publication should be at Map Series for Arabica Co	ss otherwise no , in this publica tributed as :	ve Commons Attribution 4.0 oted, copyright and any other ation is owned by the VINCE OF SURIGAO DEL SUR
DEPAI REAU OF S	UBLIC OF THE P RTMENT OF AC OILS AND WA	TER MA	JRE NAGEMENT
	ial Road Cor. Visayas Aveni 632) 332-9534 E-mail : <i>bsv</i> R	vmclientcenter@y	



	Prosperidad
B98 CONCULT B	RUMANDO RU RUMANDO RUMANDO
AND SUITAB ARABICA C	
ND RESOURCES EVALUATIO	
w - S SCALE 1:50	E 000
0.5 1 2	3 4 5
Kilometers 0.5 1 Miles Universal Transverse Mercator Zone 9 DISCLAIMER : All political boundaries	
D	
BILITY CLASSES Highly Suitable - Land having no sig application of a given use, or only mi cantly reduce productivity or benefits an acceptable level.	nor limitations that will not signifi-
attractive, will be appreciably inferior	ication of a given use; the limitations nd increase required inputs to the be gained from the use, although still to that expected on class S1 land.
Marginally Suitable - Land having li severe for sustained application of a tivity or benefits, or increase required only marginally justified. Not Suitable/ Not Relevant	given use and will so reduce produc-
R SIGNS NGP Areas Cacao	
NTIONAL SIGNS	
Expressway Trunk line Primary Secondary Tertiary Barangay	HYDROLOGY Sea / Shoreline Lakes / Rivers PLACES ty ★ Capital City / City ● Capital Town / Town
JSE Built-up Fishpond	CT-RAKET
	Mangrove
ING SHEETS	Mangrove INDEX MAP
ING SHEETS 4118-II 4118-II 4118-II 4218-IV 4217-IV	
<b>4118-II</b> 4118-I 4218-IV 4118-II 4218-III 4217-IV LANEOUS INFORMATION	
4118-I       4218-IV         4118-II       4218-IV         4118-II       4218-III         4118-II       4217-IV         4217-IV       4217-IV         SOF INFORMATION : Topographic information       500 scale. Land resources information from the An Division (ALMED), Soils Survey Division (SSD         Rice areas obtained from the Land Use System on System (PRISM) (IRRI, 2015). Data analysis a set valuation and Suitability Assessment of lities Project implemented by BSWM (2017).         eader       EBENNARDO B. PASCUA         Cartography       IRVIN K. SAMALCA         Agency       Department of Agriculture and Concil on Agriculture and Suitability Assessment of Agriculture and Suitability Assessment of Agriculture and Suitability Agriculture	INDEX MAP INDEX MAP INDEX MAP INDEX MAP
4118-I       4218-IV         4118-II       4218-IV         4118-II       4218-III         4118-II       4217-IV         4217-IV       4217-IV         Sof INFORMATION : Topographic information       4217-IV         Sof INFORMATION : Topographic information       5000 (0.0000)         Sof INFORMATION : Topographic information       5000 (0.00000)         Sof INFORMATION	<section-header></section-header>
4118-I       4218-IV         4118-II       4218-IV         4118-II       4218-IV         4118-II       4217-IV         4217-IV       4217-IV         50 FINFORMATION : Topographic information       4217-IV         00 scale. Land resources information from the An Division (ALMED), Soils Survey Division (SSD, Rice areas obtained from the Land Use System on System (PRISM) (IRRI, 2015). Data analysis a set Evaluation and Suitability Assessment of littles Project implemented by BSWM (2017).         eader       EBERNARDO B. PASCUA         Cartography       I. RVIN K. SAMALCA         Agency       Department of Agriculture - Agriculture and Suitability Assessment of Ities Project implemented by BSWM (2017).         eader       E. Department of Agriculture - Agriculture and Contraction To the Agriculture and Contraction and Suitability Assessment of Ities Project implemented by BSWM (2017).         eader       E. Department of Agriculture and Contraction and Contraction and Suitability Assessment of Ities Project implemented by BSWM (2017).         eader       E. Department of Agriculture and Contraction and	INDEX MAP INDEX MAP
4118-I       4218-IV         4118-I       4218-IV         4118-II       4218-IV         4118-II       4217-IV         4217-IV       4217-IV         CONSTRUCTION STOPOGRAPHIC INFORMATION STOPOGRAPHIC INFO	INDEX MAP   Intermediation of the provided of

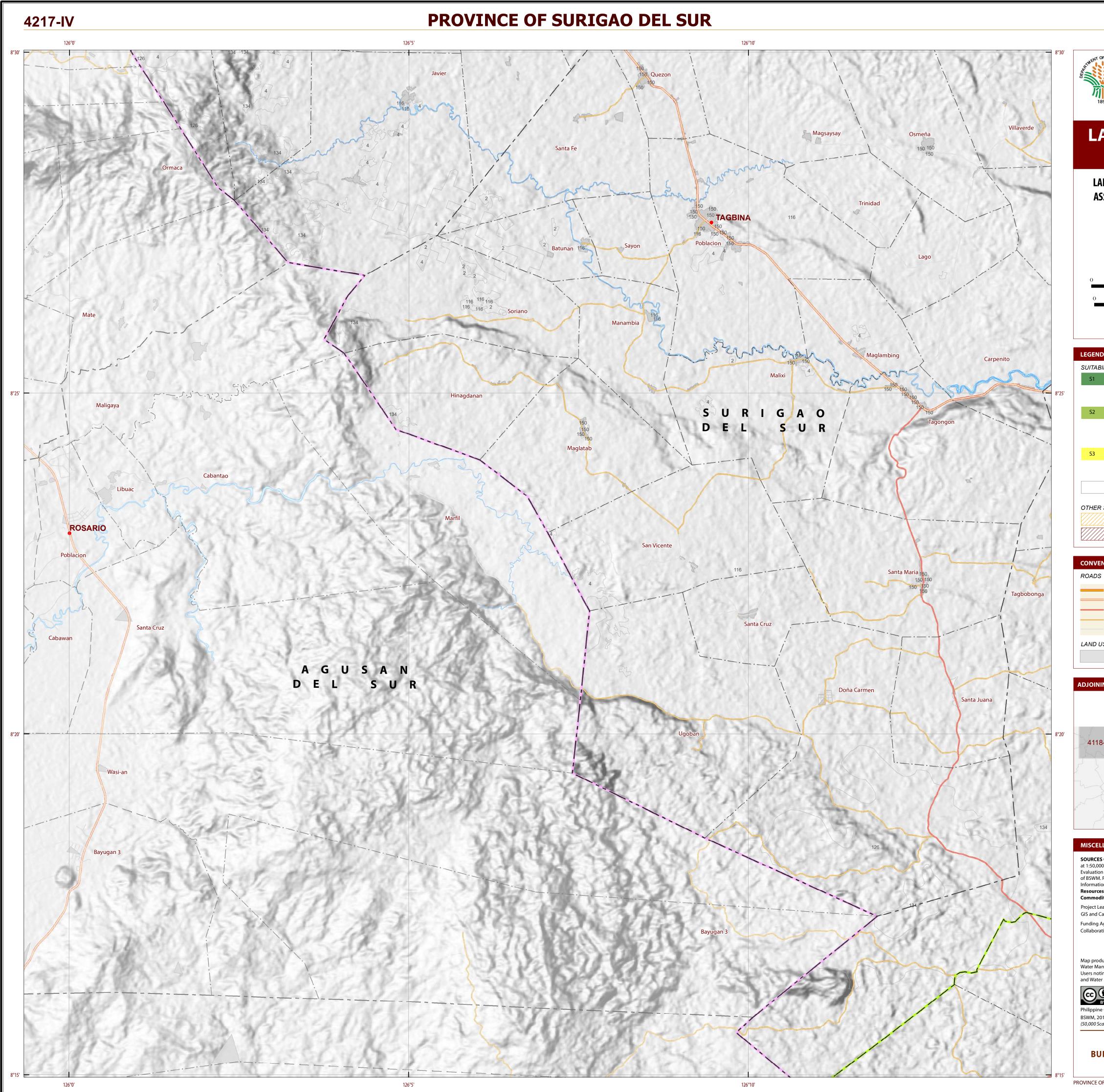


	Lianga
B98 COLULIURAL MADE	1898
AND SUITABILIT ARABICA COF	
ND RESOURCES EVALUATION AND SSESSMENT OF STRATEGIC PRODUC	
W - E S SCALE 1:50 000	
0.5 1 2 3 Kilometers 0.5 1 2	4 5
Miles Universal Transverse Mercator Zone 51 N. PRS 19 DISCLAIMER : All political boundaries are not au	
D	
BILITY CLASSES Highly Suitable - Land having no significant lin application of a given use, or only minor limitat cantly reduce productivity or benefits and will r an acceptable level.	ions that will not signifi-
<b>Moderately Suitable</b> - Land having limitations moderately severe for sustained application of a will reduce productivity or benefits and increase extent that the overall advantage to be gained attractive, will be appreciably inferior to that ex	a given use; the limitations e required inputs to the from the use, although still
Marginally Suitable - Land having limitations v severe for sustained application of a given use a tivity or benefits, or increase required inputs, th only marginally justified.	which in aggregate are and will so reduce produc-
Not Suitable/ Not Relevant	
SIGNS NGP Areas Cacao	
NTIONAL SIGNS	
Expressway Trunk line Primary Secondary Tertiary Barangay Municipality Barangay	ROLOGY Sea / Shoreline Lakes / Rivers CES Capital City / City Capital Town / Town
Built-up Fishpond	Mangrove
ING SHEETS	
4218-III	A A
-II 4218-IV 4218-I 4218-III 4218-II	
4217-IV 4217-I	and the second s
LANEOUS INFORMATION 5 OF INFORMATION : Topographic information taken from	NAMRIA Topographic Map
0 scale. Land resources information from the Agricultural n Division (ALMED), Soils Survey Division (SSD) and Labora Rice areas obtained from the Land Use System (FAO, 2015 on System (PRISM) (IRRI, 2015). Data analysis and compilat <b>es Evaluation and Suitability Assessment of Strategic P</b> <b>lities Project</b> implemented by BSWM (2017). eader : BERNARDO B. PASCUA	atory Services Division (LSD) and Philippine Rice ion through the <b>Land</b>
Cartography : IRVIN K. SAMALCA Agency : Department of Agriculture - Bureau of A sting Agencies : Philippine Council on Agriculture and Fi : Department of Agriculture and Fisherier Agriculture Regional Field Office of Reg : Local Government Unit (LGU) of covered	sheries (PCAF) s - ARMM, Department of ion IX, X, XI, XII and XIII (Caraga) d provinces and municipalities
ing errors or omissions in this publication are requested to r Management. This publication is licensed under a Creat International License. Unless otherwise n	ive Commons Attribution 4.0 oted, copyright and any other
nagement (BSWM). ing errors or omissions in this publication are requested to r Management. This publication is licensed under a Creat International License. Unless otherwise n intellectual property rights, in this public e Government. This publication should be attributed as : D19. Land Suitability Map Series for Arabica Coffee of the PRC cale). CC BY NC SA 4.0.	ive Commons Attribution 4.0 oted, copyright and any other ation is owned by the WINCE OF SURIGAO DEL SUR
International License. Unless otherwise n	ive Commons Attribution 4.0 oted, copyright and any other ation is owned by the WINCE OF SURIGAO DEL SUR WINCE OF SURIGAO DEL SUR E S URE NAGEMENT ezon City 1101

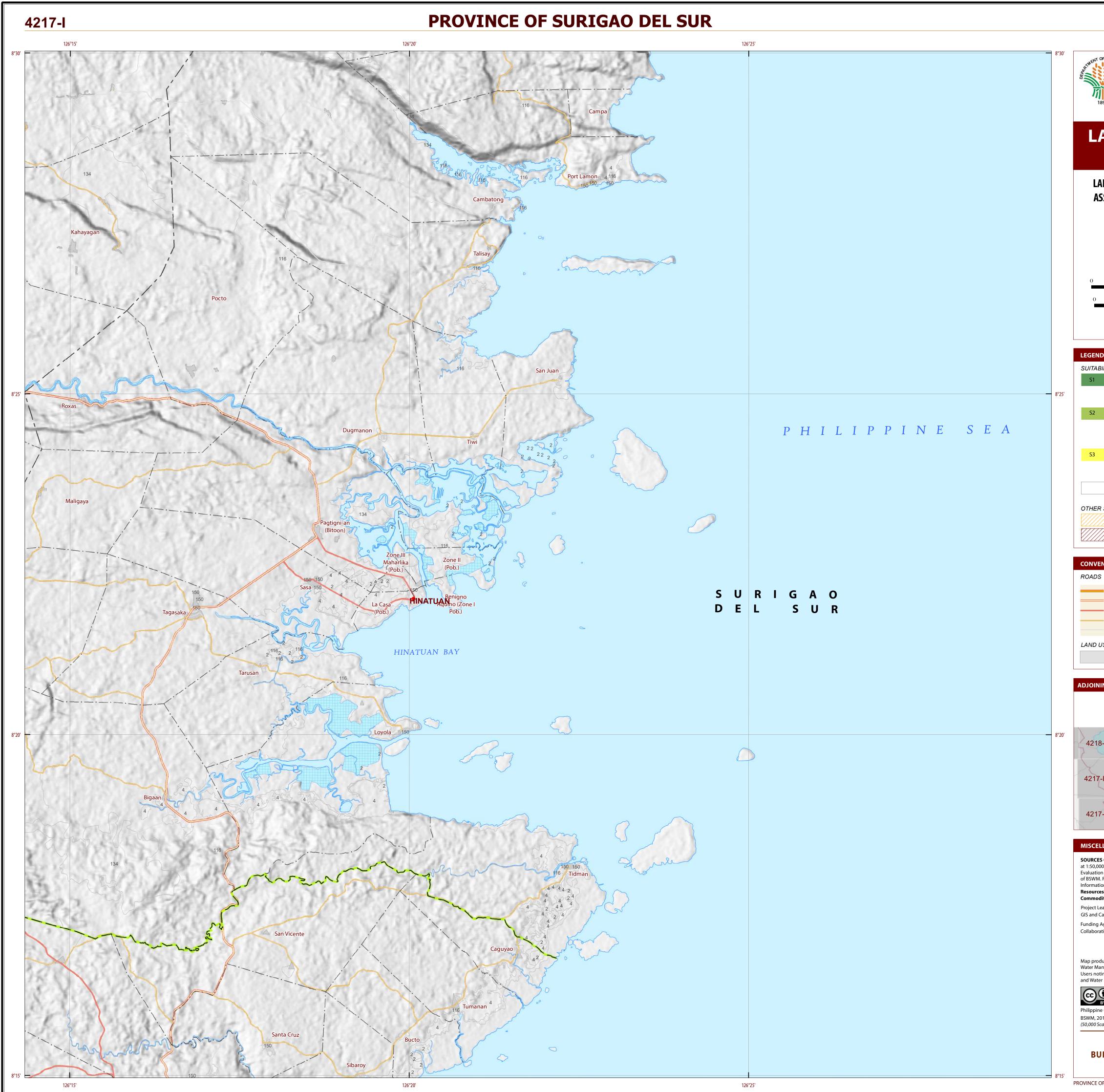


E OF SURIGAO DEL SUF			
126		26°30' 8°45'	LAN ASSI
	ΡΗΙΔΙΡΡΙΝΕ ΣΕΑ	8°40'	0 LEGEND SUITABILIT S1
			S3
		8°35'	4218-IV 4218-III 4217-IV MISCELLA
ం సి			SOURCES OF at 1:50,000 sc Evaluation Dir of BSWM. Rice Information S Resources Ev Commodities Project Leade GIS and Carto Funding Ager Collaborating Map produce Water Manag Users noting a and Water Ma
	s <sup>°</sup> 25' 1.	₽°30' 26°30'	And Water Ma Philippine Go BSWM, 2019. (50,000 Scale) BURI S PROVINCE OF SU

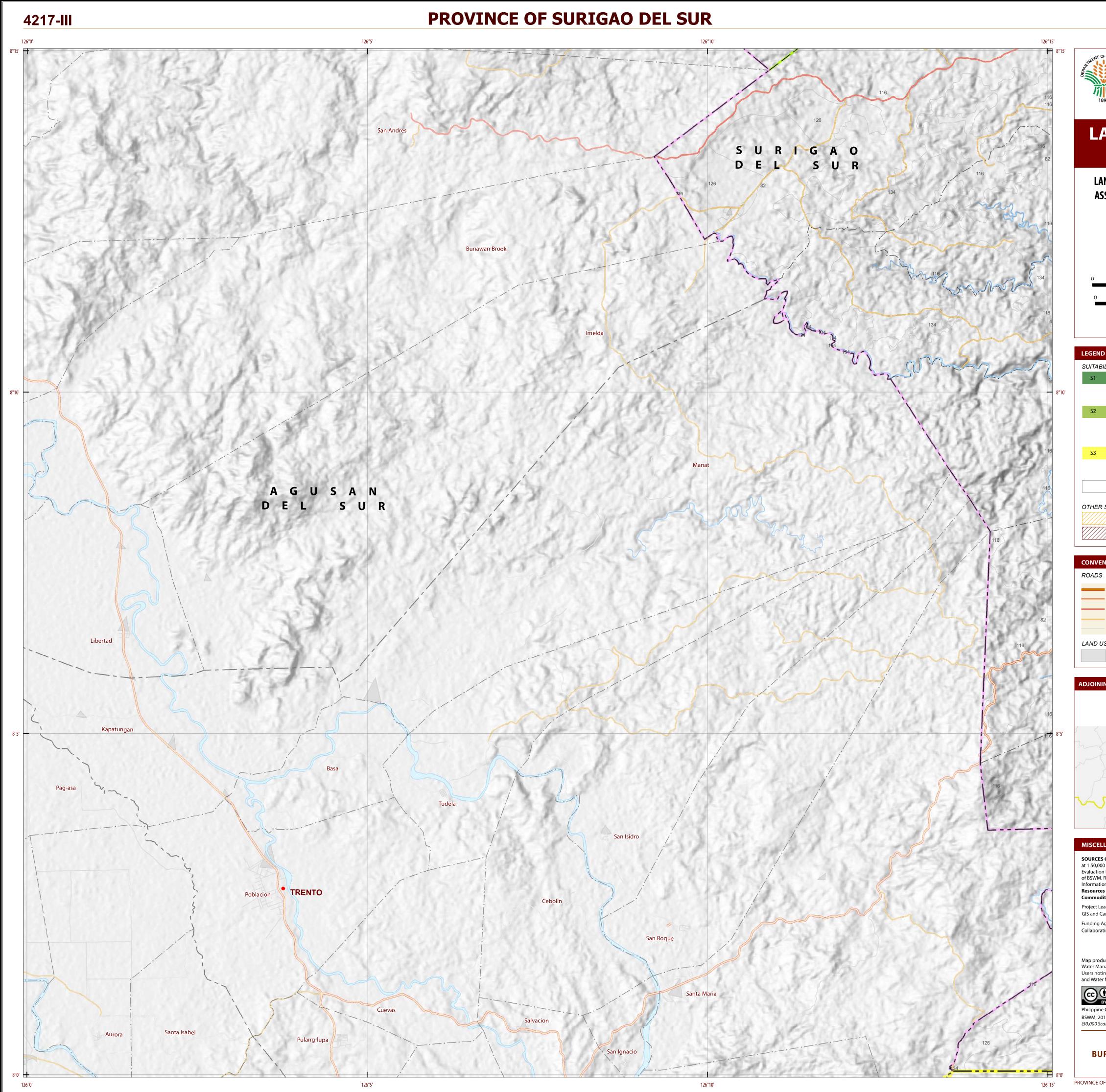
	Bakulin
By Contraction of AGRICULTURAL INSTACT	1898
AND SUITABILIT ARABICA COF	
ND RESOURCES EVALUATION AND SSESSMENT OF STRATEGIC PRODUC	
<b>SCALE 1:50 000</b> 0.5 1 2 3	4 5
Kilometers 0.5 1 2 Miles Universal Transverse Mercator Zone 51 N. PRS 199 DISCLAIMER : All political boundaries are not aut	
D	
<ul> <li>Highly Suitable - Land having no significant lim application of a given use, or only minor limitation cantly reduce productivity or benefits and will ne an acceptable level.</li> <li>Moderately Suitable - Land having limitations will reduce productivity or benefits and increase extent that the overall advantage to be gained frattractive, will be appreciably inferior to that experiments for sustained application of a given use at tivity or benefits, or increase required inputs, that only marginally justified.</li> <li>Not Suitable/ Not Relevant</li> </ul>	ons that will not signifi- ot raise inputs above which in aggregate are given use; the limitations required inputs to the rom the use, although still vected on class S1 land. which in aggregate are and will so reduce produc-
SIGNS       NGP Areas       Cacao         Land limitation       Land use	
NTIONAL SIGNS BOUNDARY HYDR Expressway Trunk line Primary Secondary Tertiary Barangay NSE Built-up Fishpond	POLOGY Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
ING SHEETS	INDEX MAP
<b>4218-II</b>	A A
-III 4218-II IV 4217-I	
-III 4218-II IV 4217-I	
III       4218-II         IV       4217-I         IV       505 INFORMATION : Topographic information taken from to so cale. Land resources information from the Agricultural Land Vision (ALMED), Soils Survey Division (SSD) and Laborate Rice areas obtained from the Land Use System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilation takes project implemented by BSWM (2017).         Exeluation and Suitability Assessment of Strategic Protities Project implemented by BSWM (2017).         Exelar X       ERNARDO B. PASCUA         Garcy X       ERNARDO B. PASCUA         Carcia Gapeny X       IRVIN K. SAMALCA         Menoy X       Philippine Council on Agriculture and Fisheries Agriculture Regional Field Office of Region C         Carcia Government Unit (LGU) of covered I         Inced by the Geomatics and Soil Information Technology D         nagement (BSWM).         ing errors or omissions in this publication are requested to r         Mage Net Solution is licensed under a Creatin international License. Unless otherwise	and Management and cory Services Division (LSD) and Philippine Rice on through the <b>Land</b> oduction Areas for Major gricultural Research (DA-BAR) heries (PCAF) - ARMM, Department of on IX, X, XI, XII and XIII (Caraga) provinces and municipalities ivision, Bureau of Soils and inform the Bureau of Soils ve Commons Attribution 4.0 oted, copyright and any other tion is owned by the
III       4218-II         IV       4217-I         IV       4217-I         Sof INFORMATION : Topographic information taken from 0 scale. Land resources information from the Agricultural Landown (ALMED), Soils Survey Division (SSD) and Laborat Rice areas obtained from the Land Use System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations Evaluation and Suitability Assessment of Strategic Provides Evaluation and Suitability Assessment of Strategic Provides Provide The System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations is Evaluation and Suitability Assessment of Strategic Provides Provides Provide The System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations is Evaluation and Suitability Assessment of Strategic Provides Provide The System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations is Evaluation and Suitability Assessment of Strategic Provides Provide The System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations is Evaluation and Suitability Assessment of Strategic Provides Provide The System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilations is Evaluation and Suitability Assessment of Strategic Provides Provides Provide The System (FAO, 2017).         eader       E BERNARDO B. PASCUA         Agency       I. Department of Agriculture - Bureau of Acting Agencies         adjoine Council on Agriculture and Fisheries       Agriculture Regional Field Office of Region         iting Agencies       I. Department of Agriculture and Fisheries         adjoine Council on Agriculture and Fisheries       I. Decal Government Unit (LGU) of covered	and Management and tory Services Division (LSD) and Philippine Rice on through the Land oduction Areas for Major gricultural Research (DA-BAR) heries (PCAF) - ARMM, Department of on IX, X, XI, XII and XIII (Caraga) provinces and municipalities ivision, Bureau of Soils and inform the Bureau of Soils ve Commons Attribution 4.0 oted, copyright and any other tion is owned by the <i>VINCE OF SURIGAO DEL SUR</i> S CRE NAGEMENT zon City 1101



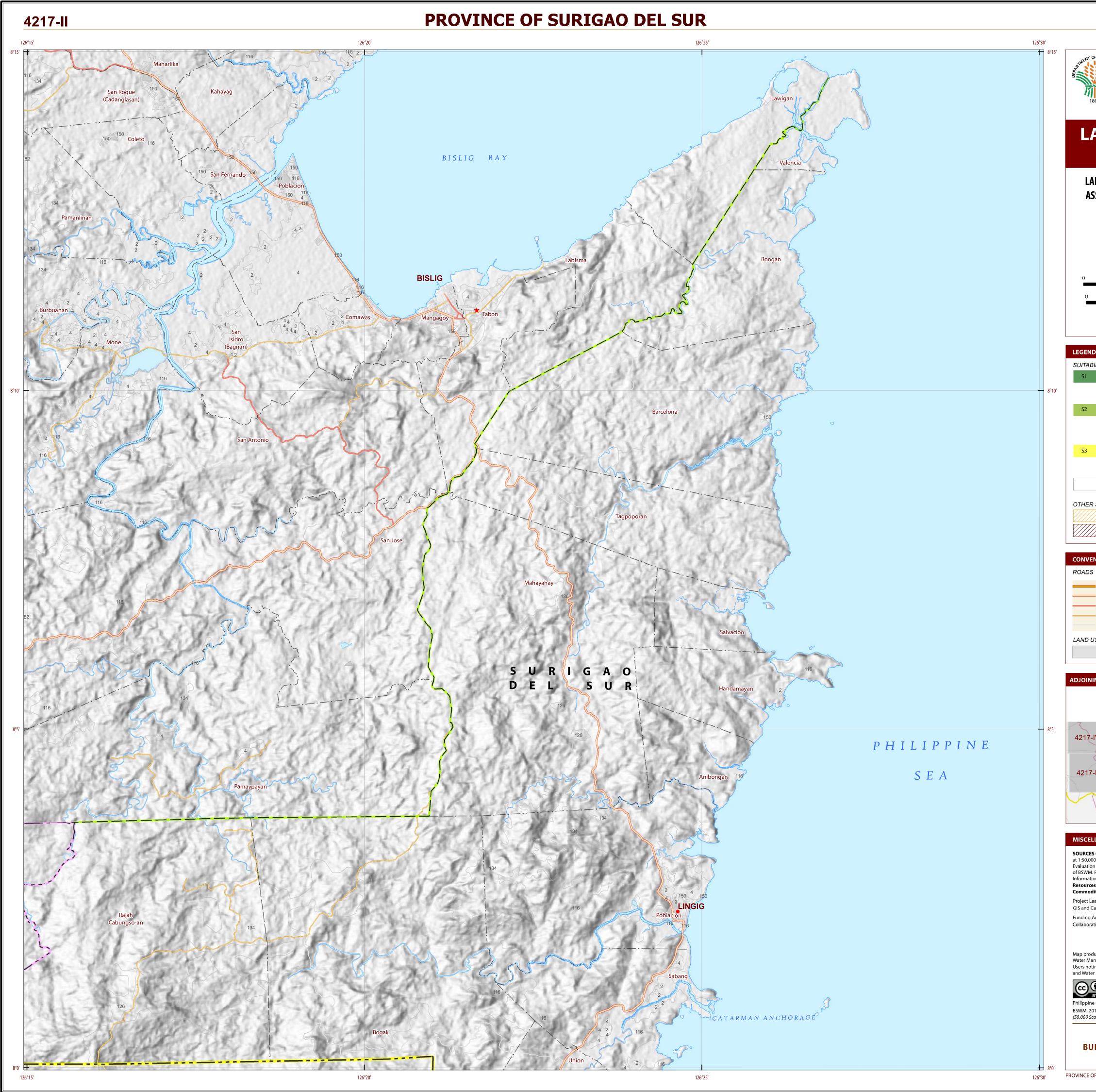
	Malixi
B98 COLUMN OF AGRICULTURAL MEMO	1898
AND SUITABILIT ARABICA COF	
ND RESOURCES EVALUATION AND SSESSMENT OF STRATEGIC PRODU	
W-E S	
SCALE 1:50 000           0.5         1         2         3           Kilometers           0.5         1         2	4 5
Miles Universal Transverse Mercator Zone 51 N. PRS 19 DISCLAIMER : All political boundaries are not au	992 Datum
D	
BILITY CLASSES Highly Suitable - Land having no significant lin application of a given use, or only minor limitat cantly reduce productivity or benefits and will an acceptable level.	tions that will not signifi-
<b>Moderately Suitable</b> - Land having limitations moderately severe for sustained application of will reduce productivity or benefits and increas extent that the overall advantage to be gained attractive, will be appreciably inferior to that ex-	a given use; the limitations e required inputs to the from the use, although still
Marginally Suitable - Land having limitations severe for sustained application of a given use tivity or benefits, or increase required inputs, th only marginally justified. Not Suitable/ Not Relevant	and will so reduce produc-
SIGNS NGP Areas	
Cacao Land use	
NTIONAL SIGNS	
Expressway Region Trunk line Province	ROLOGY Sea / Shoreline Lakes / Rivers
Primary District PLA	
Primary District PLAN Secondary - Municipality (* 1970) Tertiary Barangay (* 1970)	
Secondary Tertiary <i>ISE</i> Built-up Fishpond	CES <ul> <li>Capital City / City</li> <li>Capital Town / Town</li> </ul> Mangrove
Secondary Tertiary <i>ISE</i> Built-up Fishpond	CES ★ Capital City / City • Capital Town / Town
Secondary Tertiary Municipality Barangay <i>SE</i> Built-up Fishpond <b>ING SHEETS</b> <b>42177-IV</b>	CES <ul> <li>Capital City / City</li> <li>Capital Town / Town</li> </ul> Mangrove
Secondary Tertiary Municipality Barangay <i>SE</i> Built-up Fishpond <b>ING SHEETS</b> <b>42177-IV</b>	CES <ul> <li>Capital City / City</li> <li>Capital Town / Town</li> </ul> Mangrove
Secondary Tertiary Municipality Barangay <i>ISE</i> Built-up Fishpond <b>ING SHEETS</b> 4217-IV 3-II 4218-III 4218-II	CES <ul> <li>Capital City / City</li> <li>Capital Town / Town</li> </ul> Mangrove
Secondary Tertiary Municipality Barangay ()	CES Capital City / City Capital Town / Town Mangrove INDEX MAP
Secondary Tertiary Municipality Barangay ()	CES Capital City / City Capital Town / Town Mangrove INDEX MAP Control of the control of th
Secondary Tertiary Municipality Barangay ()	CES Capital City / City Capital Town / Town Mangrove INDEX MAP Comparison NDEX MAP NUEX MAP Comparison NAMRIA Topographic Map Land Management and atory Services Division (LSD) S) and Philippine Rice tion through the Land Production Areas for Major Agricultural Research (DA-BAR) isheries (PCAF) ss - ARMM, Department of pion IX, X, XI, XII and XIII (Caraga) di provinces and municipalities
Secondary Tertiary Municipality Barangay ()	CES Capital City / City Capital Town / Town Mangrove INDEX MAP INDEX MAP
Secondary Tertiary Municipality Barangay	CES Capital City / City Capital Town / Town Mangrove INDEX MAP Comparison NUEX MAP Comparison NUEX MAP Comparison NAMRIA Topographic Map Land Management and atory Services Division (LSD) S) and Philippine Rice torothrough the Land Production Areas for Major Agricultural Research (DA-BAR) isheries (PCAF) Se - ARMM, Department of gion IX, X, XI, XII and XIII (Caraga) di provinces and municipalities Division, Bureau of Soils and o inform the Bureau of Soils tive Commons Attribution 4.0 hoted, copyright and any other cation is owned by the
Secondary Tertiary Municipality Barangay ()	CES Capital City / City Capital Town / Town Mangrove INDEX MAP COMPANIES INDEX MAP INDEX MAP INDEX INDEX MAP INDEX MAP INDEX MAP INDEX MAP IN



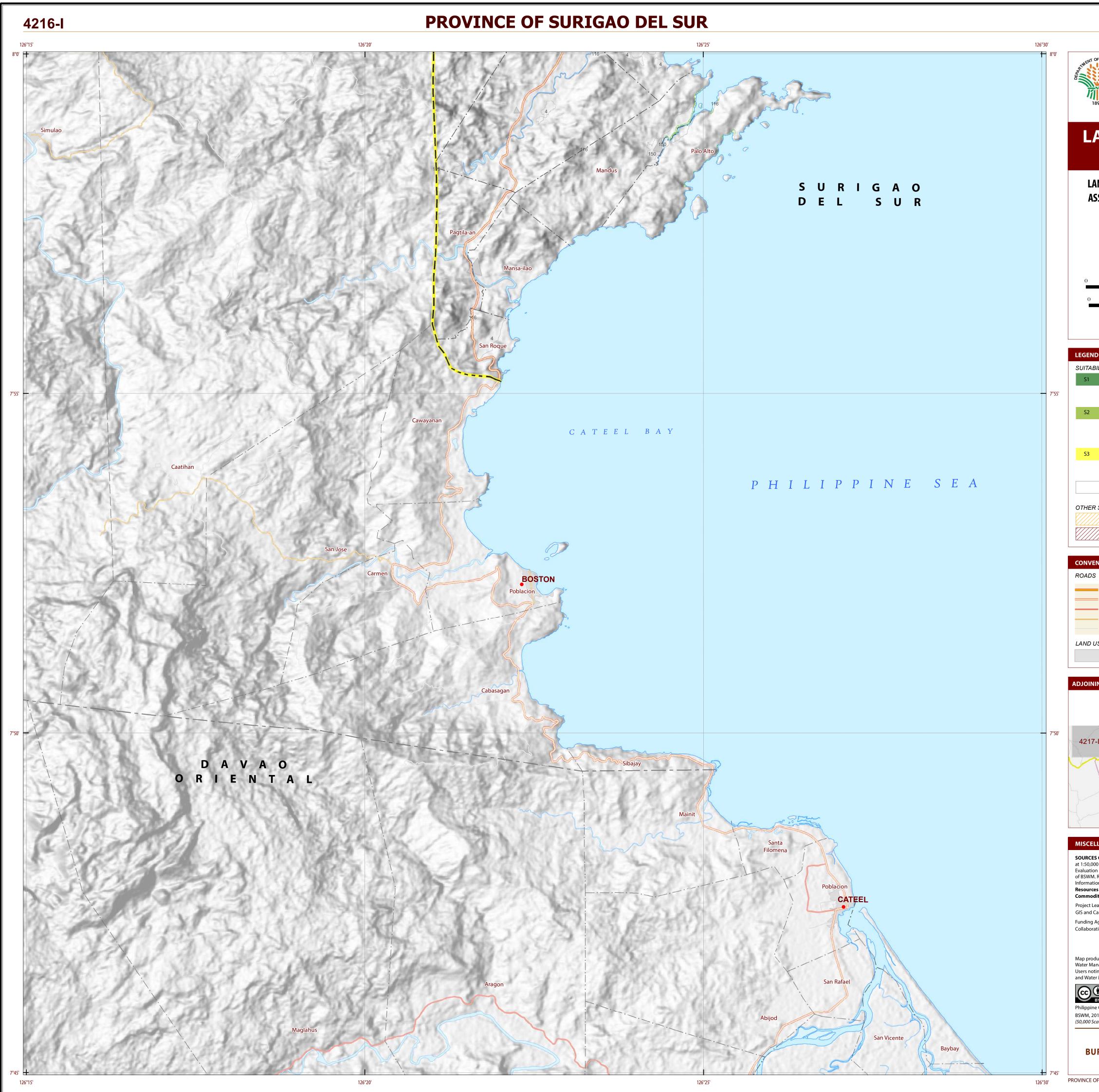
	Hinatuan
S98 COLTUMN OF AGRICULTURNUM	1898
AND SUITABILI ARABICA COF	
ND RESOURCES EVALUATION AND SESSMENT OF STRATEGIC PRODU	
W - E S SCALE 1:50 000	
0.5 1 2 3 Kilometers 0.5 1 2	<u>4</u> 5 3
Miles Universal Transverse Mercator Zone 51 N. PRS <sup>-</sup> DISCLAIMER : All political boundaries are not a	
HILITY CLASSES         Highly Suitable - Land having no significant l         application of a given use, or only minor limita         cantly reduce productivity or benefits and will         an acceptable level.	ations that will not signifi-
Moderately Suitable - Land having limitation moderately severe for sustained application o will reduce productivity or benefits and increa extent that the overall advantage to be gained attractive, will be appreciably inferior to that e Marginally Suitable - Land having limitations	f a given use; the limitations ase required inputs to the d from the use, although still expected on class S1 land. s which in aggregate are
severe for sustained application of a given use tivity or benefits, or increase required inputs, t only marginally justified. <b>Not Suitable/ Not Relevant</b>	-
SIGNS NGP Areas Cacao	
NTIONAL SIGNS	
Expressway Region Trunk line Province	DROLOGY Sea / Shoreline Lakes / Rivers ACES Capital City / City Capital Town / Town
Built-up	Mangrove
ING SHEETS 4217-1	
-III 4218-II -IV 4217-I '-III 4217-II	
	ne NAMDIA Teo anna his Mar
GOF INFORMATION : Topographic information taken from 0 scale. Land resources information from the Agricultura in Division (ALMED), Soils Survey Division (SSD) and Labora Rice areas obtained from the Land Use System (FAO, 20 on System (PRISM) (IRRI, 2015). Data analysis and compiles Evaluation and Suitability Assessment of Strategic lities Project implemented by BSWM (2017).         eader       : BERNARDO B. PASCUA         fartography       : IRVIN K. SAMALCA         Agency       : Department of Agriculture - Bureau of ting Agencies : Philippine Council on Agriculture and Editor and Sitter and Sitter and Field Office of Regional Field Office of Regional Field Office of Regional Field Office of Regional Field Soft (SWM).	al Land Management and bratory Services Division (LSD) 15) and Philippine Rice lation through the <b>Land</b> <b>Production Areas for Major</b> f Agricultural Research (DA-BAR) Fisheries (PCAF) ies - ARMM, Department of egion IX, X, XI, XII and XIII (Caraga) red provinces and municipalities
ing errors or omissions in this publication are requested r Management. This publication is licensed under a Cre International License. Unless otherwise intellectual property rights, in this public Government. This publication should be attributed as : 019. Land Suitability Map Series for Arabica Coffee of the Ph tale) . CC BY NC SA 4.0.	eative Commons Attribution 4.0 e noted, copyright and any other lication is owned by the ROVINCE OF SURIGAO DEL SUR
DEPARTMENT OF AGRICULT REAU OF SOILS AND WATER M SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, C Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcente	<b>FURE</b> <b>ANAGEMENT</b> Quezon City 1101 r@yahoo.com
OF SURIGAO DEL SUR Shee	et 14 of 17 Sheet No. 4217-I



		S	an Isidro
B98	RENT OF AGRICULT	CULTURAL MEDIC	1898
AND S ARA	UITAB BICA (		
ND RESOURC			
0.5 1	SCALE 1:50	<b>) 000</b> 3	4 5
	Kilometers 1 Miles sverse Mercator Zone All political boundarie		
D			
application of a g	given use, or only m oductivity or benefit	inor limitatio	tations to sustained ns that will not signifi- t raise inputs above
moderately seven will reduce produ extent that the o attractive, will be	re for sustained app uctivity or benefits a verall advantage to appreciably inferio	lication of a g and increase be gained fro r to that exp	which in aggregate are given use; the limitations required inputs to the for the use, although still ected on class S1 land.
severe for sustair	ned application of a or increase required ustified.	given use an	hich in aggregate are d will so reduce produc- : this expenditure will be
SIGNS NGP Areas Cacao	Land lim 116 Land use		
NTIONAL SIGNS			
Expressway Trunk line Primary Secondary Tertiary	OUNDARY Region Province District Municipal Barangay	PLACE	OLOGY Sea / Shoreline Lakes / Rivers ES Capital City / City Capital Town / Town
JSE Built-up	Fishpond		Mangrove
ING SHEETS 4217-1	11		
4217-IV 4217-III	4217-I 4217-II		
	4216-1	No.	
LANEOUS INFOR			
00 scale. Land resources n Division (ALMED), Soi . Rice areas obtained fro on System (PRISM) (IRRI es Evaluation and Suit lities Project implemer	information from the Is Survey Division (SSD om the Land Use System I, 2015). Data analysis a ability Assessment of	Agricultural La )) and Laborato m (FAO, 2015) and compilatic	ory Services Division (LSD) and Philippine Rice
Agency : Depa ating Agencies : Philip : Depa Agric : Loca duced by the Geomatics unagement (BSWM).	opine Council on Agric artment of Agriculture culture Regional Field ( I Government Unit (LG and Soil Information	ulture and Fish and Fisheries - Office of Regio U) of covered Technology Di	ARMM, Department of n IX, X, XI, XII and XIII (Caraga) provinces and municipalities vision, Bureau of Soils and
er Management. This p This p This p Intern intelle Government. This public	ublication is licensed u ational License. Unless ictual property rights, i plication should be attr	inder a Creativ otherwise no in this publicat ibuted as :	nform the Bureau of Soils e Commons Attribution 4.0 ted, copyright and any other ion is owned by the INCE OF SURIGAO DEL SUR
DEPART IREAU OF SO SRDC Bldg., Elliptical F		RICULTU	RE NAGEMENT
	) 332-9534 E-mail : <i>bswi</i>	mclientcenter@yc	



	Lingig
By Contraction of the second s	1898
AND SUITABILIT ARABICA COF	
AND RESOURCES EVALUATION AND SSESSMENT OF STRATEGIC PRODUC	
0.5 1 2 3	4 5
Kilometers 0.5 1 2 Miles Universal Transverse Mercator Zone 51 N. PRS 199 DISCLAIMER : All political boundaries are not aut	
D	
HLITY CLASSES Highly Suitable - Land having no significant lim application of a given use, or only minor limitati cantly reduce productivity or benefits and will n an acceptable level.	ons that will not signifi-
<b>Moderately Suitable</b> - Land having limitations moderately severe for sustained application of a will reduce productivity or benefits and increase extent that the overall advantage to be gained f attractive, will be appreciably inferior to that exp	given use; the limitations required inputs to the rom the use, although still
<b>Marginally Suitable</b> - Land having limitations v severe for sustained application of a given use a tivity or benefits, or increase required inputs, the only marginally justified.	nd will so reduce produc-
Not Suitable/ Not Relevant	
NGP Areas     Land limitation       Cacao     Land use	
NTIONAL SIGNS	ROLOGY
Expressway Region Trunk line Province Primary District PLAC	Sea / Shoreline Lakes / Rivers
Secondary — Municipality 🛞 🖌 Tertiary — Barangay 💿 .	Capital City / City
Built-up	Mangrove
ING SHEETS 4217-II	INDEX MAP
ING SHEETS 4217-II IV 4217-I	
<b>4217-II</b>	
<b>4217-II</b>	
4217-II         1         4217-II         4217-II         4217-II         4216-I         1         4216-I	
<b>4217-II</b> -111 4217-I	AMMRIA Topographic Map and Management and tory Services Division (LSD) and Philippine Rice ton through the Land roduction Areas for Major
4217-I         1         4217-I         4217-I         4217-I         4217-I         4217-I         4217-I         4216-I         5         5         6         6         7         6         7         7         7         8         6         7         7         8         9	AMRIA Topographic Map and Management and tory Services Division (LSD) and Philippine Rice ion through the Land roduction Areas for Major
4217-IJ         -IJ       4217-J         -IJ       4217-J         -IJ       4217-J         -IJ       4217-J         -IJ       4217-J         -IJ       4216-J         State       5000000000000000000000000000000000000	AMRIA Topographic Map and Management and tory Services Division (LSD) and Philippine Rice ion through the Land orduction Areas for Major
4217-I         5210-2         50150-2000         50150-2000         50150-2000         50150-2000         50150-2000         5010-2000	In AMRIA Topographic Map and Management and tory Services Division (LSD) and Philippine Rice for through the Land orduction Areas for Major
4217-II         4217-I         50150000000000000000000000000000000000	AMRIA Topographic Map and Management and tory Services Division (LSD) and Philippine Rice ton through the Land coduction Areas for Major and Philippine Rice ton through the Land coduction Areas for Major and Philippine Rice to through the Land coduction Areas for Major



		Bosto	on
B98	and the of AGRICUL		ALCULTURE
	UITABI BICA C	LITY MAP OFFEE	
		N AND SUITABILITY RODUCTION AREAS	
0.5 1	S SCALE 1:50 2 3		
	Kilometers 1 Miles ransverse Mercator Zone 51 : All political boundaries		
D			
HILITY CLASSES Highly Suitab application of a cantly reduce p an acceptable	a given use, or only min productivity or benefits level.	ificant limitations to sustained or limitations that will not sign and will not raise inputs above	iifi- e
moderately sev will reduce pro extent that the attractive, will	vere for sustained applie eductivity or benefits an e overall advantage to be be appreciably inferior t	nitations which in aggregate a cation of a given use; the limita d increase required inputs to tl gained from the use, althoug to that expected on class S1 lar nitations which in aggregate ar	ntions he ıh still nd.
severe for susta	ained application of a g ts, or increase required y justified.	ven use and will so reduce pro nputs, that this expenditure w	oduc-
SIGNS NGP Areas Cacao	Land limit Land use	ation	
NTIONAL SIGNS			]
INTIONAL SIGNS	5		
	BOUNDARY Region Province District Municipalit Barangay	HYDROLOGY Sea / Shoreline Lakes / Rivers PLACES Y ★ Capital City / City • Capital Town / To	,
<ul> <li>Expressway</li> <li>Trunk line</li> <li>Primary</li> <li>Secondary</li> <li>Tertiary</li> </ul>	BOUNDARY Region Province District Municipalit Barangay	Sea / Shoreline Lakes / Rivers PLACES (* * Capital City / City (* Capital Town / To	,
<ul> <li>Expressway</li> <li>Trunk line</li> <li>Primary</li> <li>Secondary</li> <li>Tertiary</li> </ul>	BOUNDARY  Region Province District Municipalit Barangay  Fishpond	Sea / Shoreline Lakes / Rivers PLACES (* * Capital City / City (* Capital Town / To Mangrove	,
Expressway Trunk line Primary Secondary Tertiary ING SHEETS 4216-1 4216-1 4216-1	BOUNDARY Region Province District Municipalit Barangay Fishpond Statement PRMATION : Topographic information	Sea / Shoreline Lakes / Rivers PLACES V  A Capital City / City O Capital Town / To Mangrove INDEX MAP INDEX MAP	, wn
Expressway Trunk line Primary Secondary Tertiary	BOUNDARY  Region Province District Municipalit Barangay  Fishpond  Rinder  RR, 2017  RMATION  Topographic information res information from the Ag Soils Survey Division (SSD) a form the Land Use System RR, 2015). Data analysis an <b>Mitability Assessment of S</b> nented by BSWM (2017).  NARDO B. PASCUA IN K. SAMALCA epartment of Agriculture ar	Sea / Shoreline Lakes / Rivers PLACES ( ) ( ) ( Capital City / City ( ) Capital Town / To ( ) ( ) Capital Town / To ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	, wn wn SD) ijor A-BAR)
Expressway Trunk line Primary Secondary Tertiary	BOUNDARY  Region Province District Municipalit Barangay  Fishpond  Fishpond  RMATION  Topographic information res information from the Ag Soils Survey Division (SSD) From the Land Use System RR, 2015). Data analysis an Sitability Assessment of S nented by BSWM (2017).  NARDO B. PASCUA IN K. SAMALCA  paparment of Agriculture ar priculture Regional Field Of cal Government Unit (LGU) citics and Soil Information Tee	Sea / Shoreline Lakes / Rivers PLACES (	, wn wn SD) sjor A-BAR) of Caraga) palities and
Expressway Trunk line Primary Secondary Tertiary	BOUNDARY  Region Province District Municipalit Barangay  Fishpond  Fishpond  Rind U  RMATION  Comparison of the second of the se	Sea / Shoreline Lakes / Rivers PLACES A Capital City / City C Capital Town / To Capital Town / Town	wn wn SD) Jor A-BAR) of Caraga) palities and coils on 4.0 o ther
Expressway Trunk line Primary Secondary Tertiary	BOUNDARY  Region Province District Municipalit Barangay  Fishpond  Rindrich  Rindrich  Province District Municipalit Barangay  Rindrich	Sea / Shoreline Lakes / Rivers PLACES PLACES Capital City / City Capital Town / To Capital Town / Town / Town / To Capital Town / Town	wn wn SD) Jor A-BAR) of Caraga) palities and coils on 4.0 o ther