LAND SUITABILITY MAP

ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

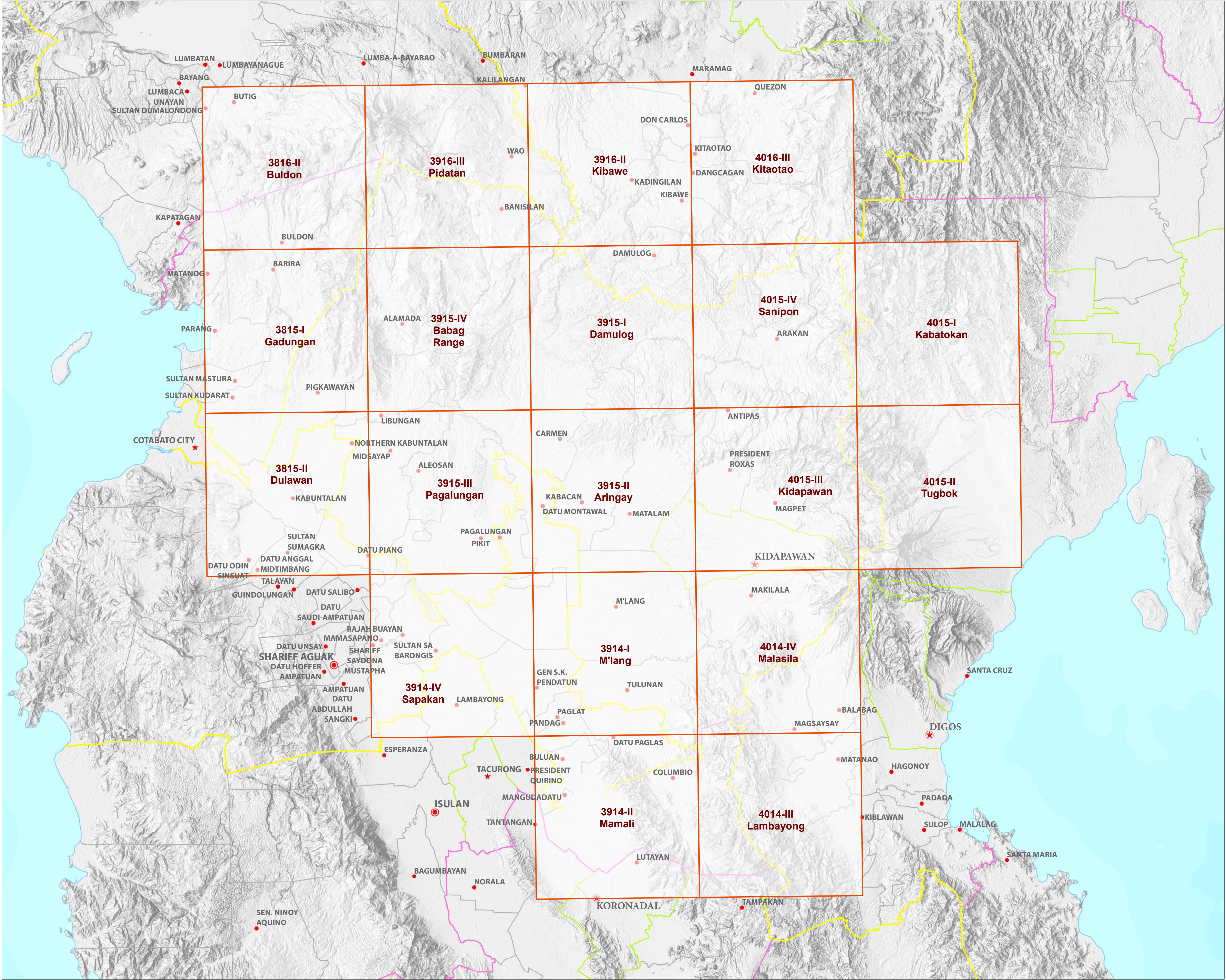# PROVINCE OF NORTH COTABATO

MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF NORTH COTABATO

LEGEND

Places

★ Capital City
★ City
◎ Capital Town
• Town

Administrative Boundary

— Regional
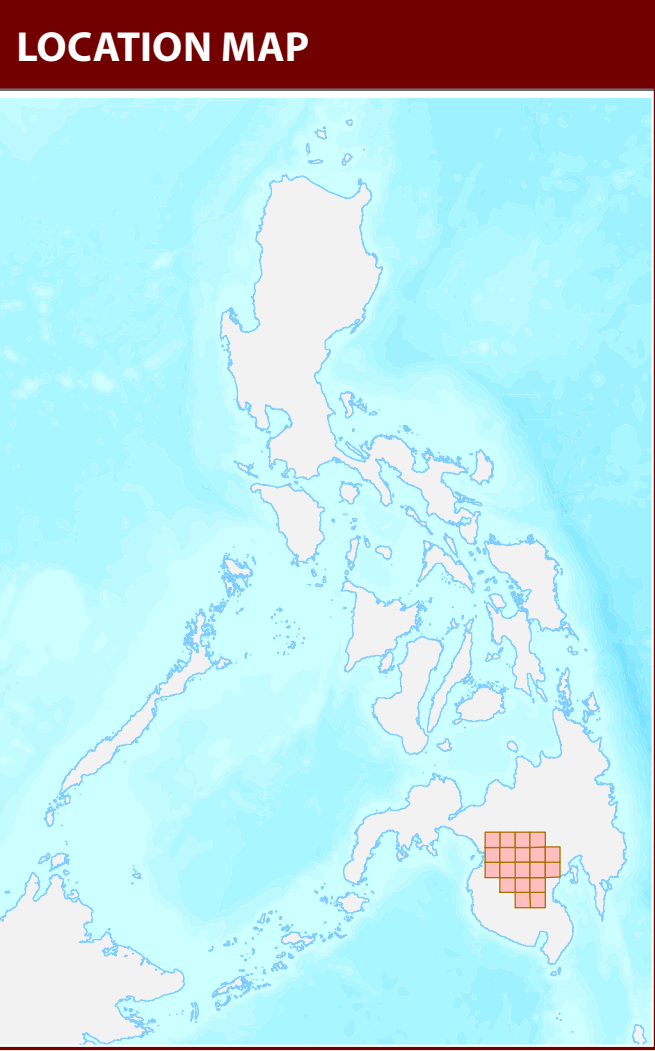— Provincial
— City
— Municipal

Map Index

☐ Index grid

Topographic Relief

Bathymetry

LOCATION MAP

MISCELLANEOUS INFORMATION

Land suitability information produced by the Bureau of Soils and Water Management (BSWM) through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** duly supported by the Philippine Council on Agriculture and Fisheries (PCAF) and funded by the Bureau of Agricultural Research (BAR).

Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and Water Management (BSWM).

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT

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LAND SUITABILITY MAP FOR
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

NORTH COTABATO, REGION XII

EXTENT OF SUITABILITY FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING COFFEE(Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION AREA (Ha)								TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Sugarcane		Pineapple		Other crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	
ALAMADA	-	-	-	-	1,169	673	-	1,147	1,479	7,263	5,411	7,275	-	-	-	-	-	-	24,417
ALEOSAN	-	-	-	-	724	798	87	511	7	640	2,229	1,246	3,156	3,685	-	-	1,036	1,168	15,288
ANTIPAS	4	1	12	17	3	4,518	-	-	3	170	334	788	-	-	-	-	-	1	6,955
ARAKAN	-	3	6	9	682	4,355	84	92	225	1,961	914	4,412	37	-	-	-	-	-	12,765
BANISILAN	-	-	-	-	13	31	2	690	21	2,621	207	3,082	19	10,143	-	-	-	-	16,830
CARMEN	5	-	-	5	1,405	532	270	1,208	5,304	2,239	19,987	2,812	135	162	-	-	47	1	34,102
CITY OF KIDAPAWAN	25	2	3	30	16,097	3,329	-	-	-	-	2,183	299	-	-	1,349	180	-	-	23,437
KABACAN	-	-	-	-	635	3	11	528	455	2,347	5,358	718	-	-	-	-	-	-	10,055
LIBUNGAN	-	-	-	-	289	1,120	-	-	1,628	92	1,905	390	972	86	-	-	944	770	8,195
MAGPET	12	23	52	86	4,357	1,284	-	4	55	868	921	884	-	-	-	-	1	-	8,374
MAKILALA	-	12	10	22	6,155	3,237	335	59	639	-	3,049	84	-	-	4,262	101	-	-	17,920
MATALAM	-	1	1	2	2,098	3,361	87	221	269	3,184	13,413	3,393	-	-	-	-	-	-	26,027
MIDSAYAP	-	-	-	-	632	-	494	-	-	-	6,726	611	450	576	-	-	1,873	2,073	13,436
M'LANG	-	-	-	-	5,764	41	-	-	-	-	11,117	24	-	-	2,489	-	-	-	19,436
PIGKAWAYAN	-	-	-	-	4,955	158	82	65	1,484	381	1,829	108	-	-	-	-	218	-	9,279
PIKIT	-	-	-	-	3,657	377	720	171	44	1,220	9,509	568	10	49	-	-	-	-	16,326
PRESIDENT ROXAS	6	1	6	12	2,337	2,362	34	357	4,624	2,987	4,974	1,399	-	1	-	-	20	-	19,095
TULUNAN	-	-	-	-	2,509	3	19	-	3,789	147	7,569	-	-	-	701	-	-	-	14,737
TOTAL	51	42	90	184	54,621	26,181	2,223	5,053	20,027	26,121	97,636	28,094	4,779	14,703	8,802	281	4,139	4,013	296,675

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

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.

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.

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.

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.

AGRONOMIC REQUIREMENT OF ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
Coffee (Robusta, Excelsa, Liberica)	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	<1000	2001-4500	I, III, IV
	S2	8 - 30	30 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 / 7.3 - 7.8	medium	moderate	moderate	common	1000-2000	1000-2000	I, II
	S3	>30	<30	S, LS, CSL, SL	VPD,ED	<5.0 -> 7.9	low	severe	severe	many	>2000	<1000 / >4500	

SLOPE (%)
0 - 3   - level to gently sloping
3 - 8   - gently sloping to undulating
8 - 18   - undulating to rolling
18 - 30   - rolling to moderately steep
30 - 50   - steep
> 50   - very steep

SOIL DEPTH (cm)
0 - 30   - very shallow
30 - 50   - shallow
50 - 100   - moderately deep
> 100   - deep to very deep

SOIL DRAINAGE
ED   - excessively drained
WD   - well drained
MWD   - moderately well drained
SPD   - somewhat poorly drained
PD   - poorly drained
VPD   - very poorly drained

SURFACE IMPEDIMENT
ROCK OUTCROPS
< 10%   - none - few
10 - 30%   - common
> 30%   - many

SOIL REACTION (pH)
< 4.5   - extremely acid
4.5 - 5.0   - very strongly acid
5.1 - 5.5   - strongly acid
5.6 - 6.0   - medium acid
6.1 - 6.5   - slightly acid
6.6 - 7.2   - neutral
7.3 - 7.8   - mildly alkaline
7.9 - 8.4   - moderately alkaline
> 8.5   - strongly alkaline

SOIL TEXTURE
Coarse
S   - sand
LS   - loamy sand
CSL   - coarse sandy loam
SL   - sandy loam
Medium
FSL   - fine sandy loam
L   - loam
SiL   - silt loam
CL   - clay loam
SiCL   - silty clay loam
SCL   - sandy clay loam

Fine
SC   - sandy clay
SiC   - silty clay
C   - clay
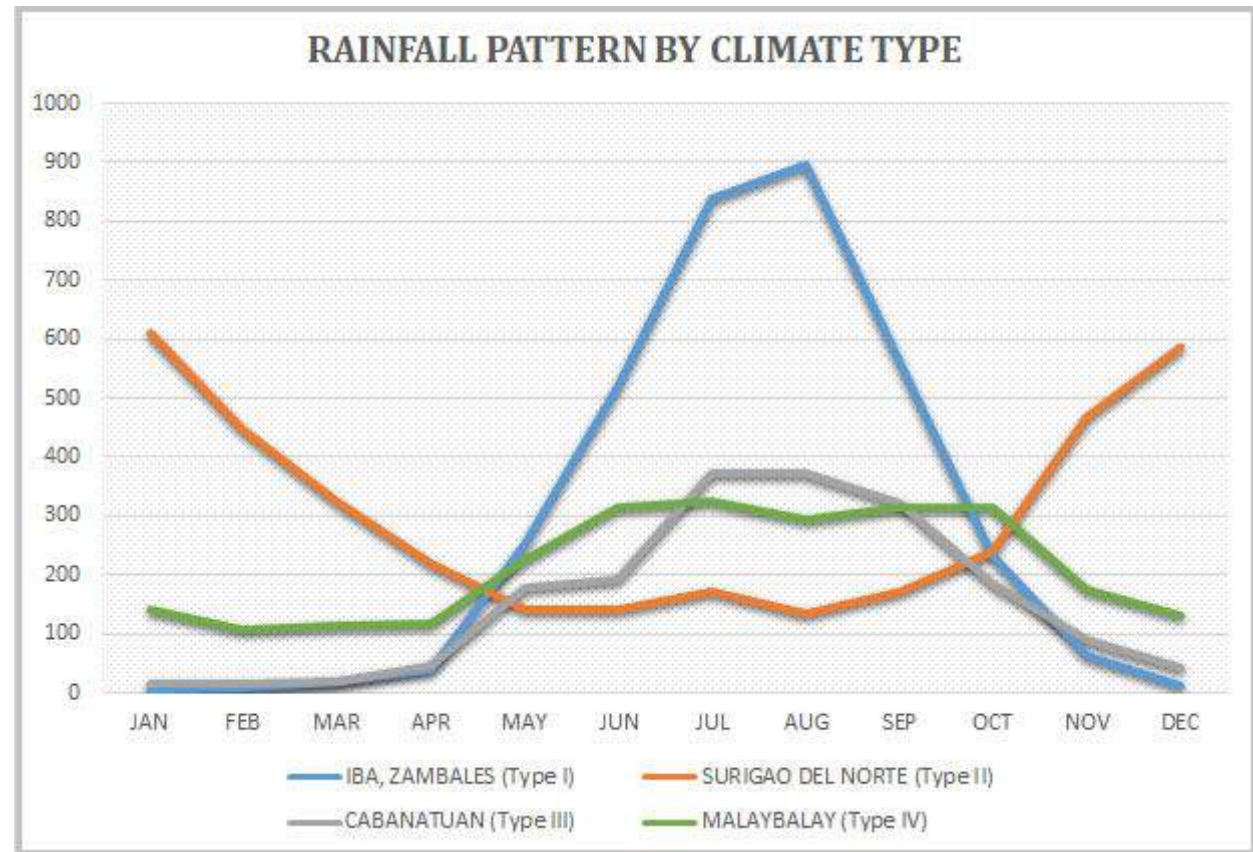HC   - heavy clay

CLIMATE TYPE

TYPE I : Two pronouced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September

TYPE II : No dry season with a very pronounced maximum rain period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.
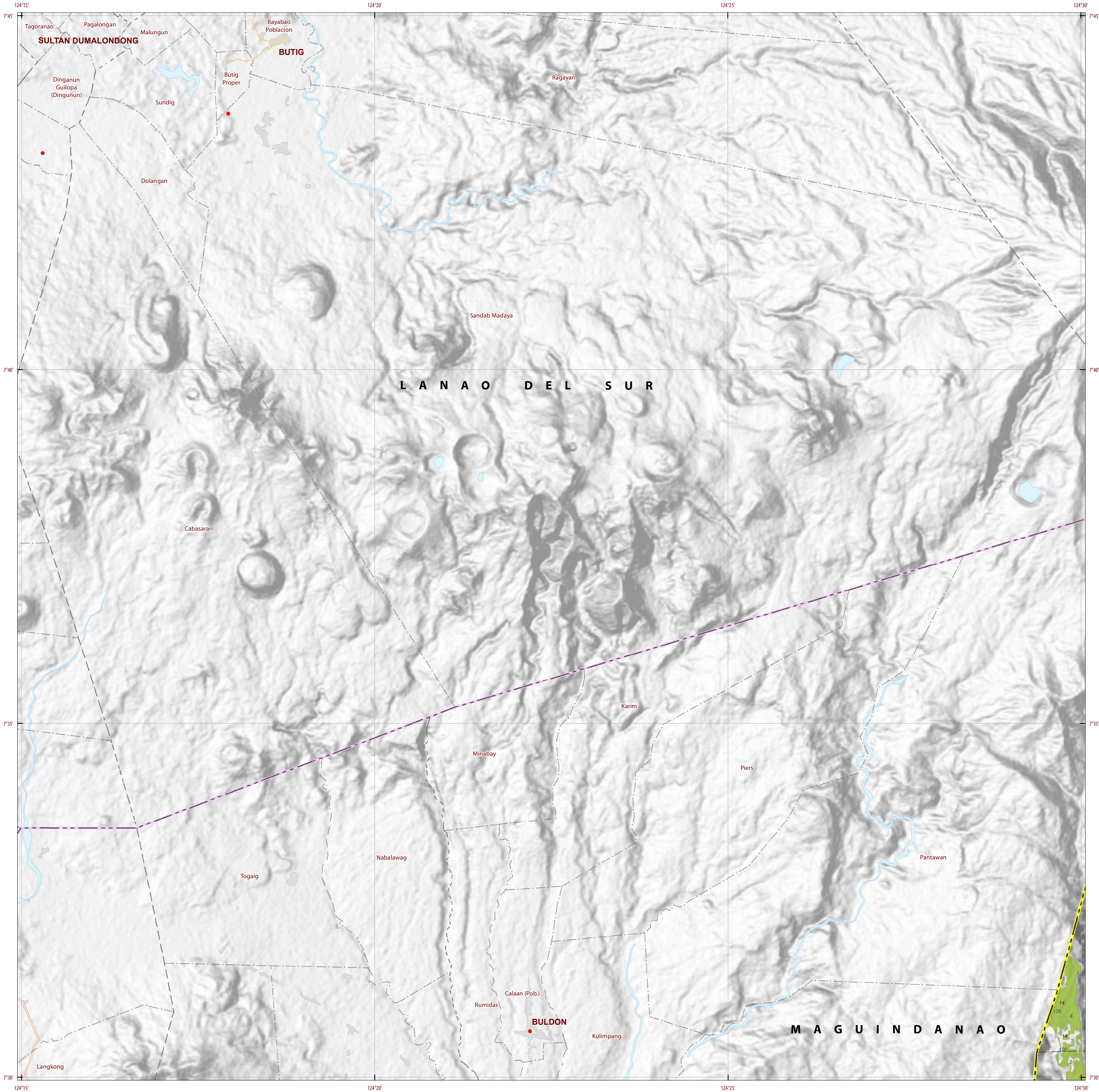
TYPE III : No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

TYPE IV : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

North Cotabato is mostly classified as climatic Type III and partly Type IV in the Eastern part.

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION
El2   - 1000m - 2000m
El3   - > 2000m

SLOPE/TOPOGRAPHY
T2   - Undulating to moderately steep
T3   - Steep to very steep

SOIL DRAINAGE
D2   - Somewhat poorly drained to poorly drained
D3   - Very poorly drained or excessively drained

SOIL TEXTURE
Tc   - Coarse texture

SOIL DEPTH
Sh2   - Shallow to moderately deep (30 - 100cm)
Sh3   - Very shallow (< 30cm)

ROCK OUTCROPS
Rc2   - Common
Rc3   - Many

SOIL EROSION
E2   - Moderate erosion
E3   - Severe erosion

FLOODING
F2   - Moderate seasonal flooding
F3   - Severe seasonal flooding

CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	E2-Sh2-Rc2	11	F2-D2	21	T2-E3-Sh2-Rc3	31	T3-E3-Sh3-Rc2	41	T3-E3-Rc3
2	E2-Sh2-Rc3	12	F3-D2	22	T2-El2	32	T3-E3-Sh3-Rc3	42	T3-Sh3-Rc3
3	E3-Sh2-Rc3	13	Rc2	23	T2-El2-E3-Rc2	33	T3-El2	43	T3-El2-E3-Rc3
4	sa wed.	14	sa wed.	24	T2-El2-E3-Sh2-Rc2	34	T3-El2-E3	44	T3-El2-E3-Sh3-Rc3
5	El2-E2-Sh2-Rc3	15	Sh2-Rc3	25	T2-El2-E3-Sh2-Rc3	35	T3-El2-E3-Rc2	45	T3-El3-E3-Sh3-Rc3
6	El2-E3-Sh2-Rc3	16	T2	26	T2-El2-E3-Sh2-Rc2	36	T3-El2-E3-Sh3-Rc2		
7	El2-Rc2	17	T2-E3	27	T3	37	T3-El2-E3-Sh3-Rc3		
8	El2-Sh2-Rc2	18	T2-E3-Rc2	28	T3-E3	38	T3-El3-E3-Sh3-Rc2		
9	El2-Sh2-Rc3	19	T2-E3-Rc3	29	T3-E3-Rc2	39	T3		
10	El3-Sh2-Rc2	20	T2-E3-Sh2-Rc2	30	T3-E3-Sh2-Rc3	40	T3-E3		

CODE	LANDUSE
4	Corn
34	Diversified crops
84	Pineapple
91	Banana
105	Fruit trees, mixed
112	Sugarcane
116	Coconut
126	Grassland
134	Shrubs, unmanaged
137	Rubber (T)

RAINFALL PATTERN BY CLIMATE TYPE

IBA, ZAMBALES (Type I)   SURIGAO DEL NORTE (Type II)   CABANATUAN (Type III)   MALAYBALAY (Type IV)
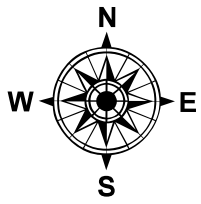
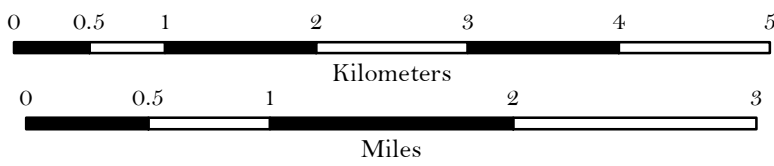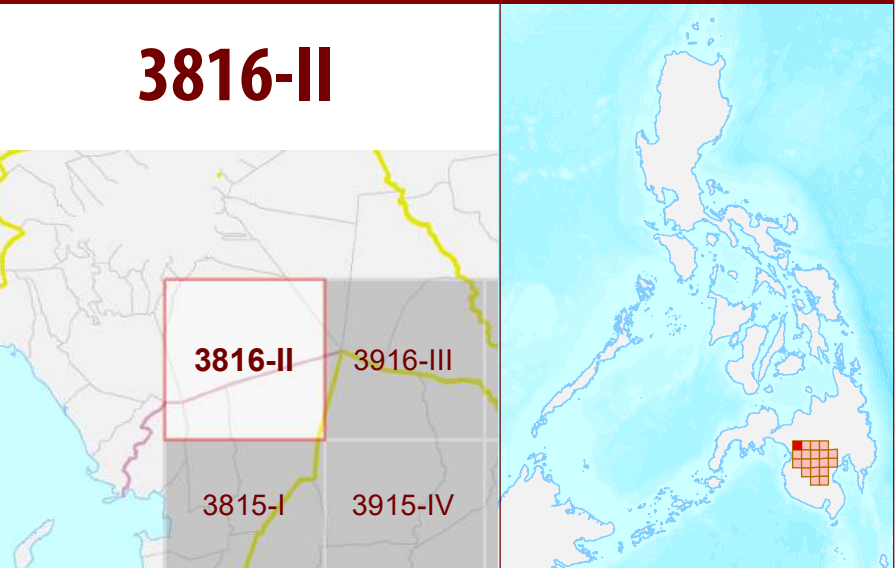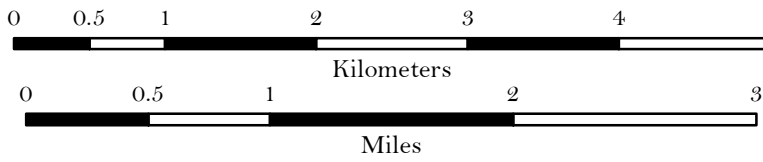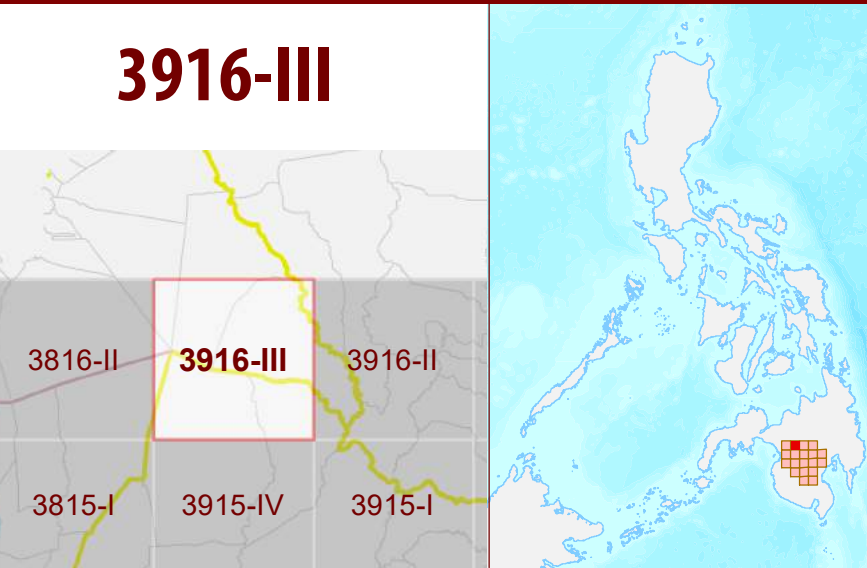Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>.

Map labels

Tagoranao
Pagalongan
Malungun
Bayabao Poblacion
SULTAN DUMALONDONG
BUTIG
Dinganun Guilopa (Dingunun)
Butig Proper
Sundig
Dolangan
Ragayan

Sandab Madaya

L A N A O D E L S U R

Cabasaran

Karim

Minabay
Piers

Nabalawag
Pantawan

Togaig

Langkong
Rumidas
Calaan (Pob.)
BULDON
Kulimpang

M A G U I N D A N A O

Legend panel

DEPARTMENT OF AGRICULTURE

LAND SUITABILITY MAP
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers
0   0.5   1   2   3   4   5

Miles
0   0.5   1   2   3

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

S1 **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.

S2 **Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall adva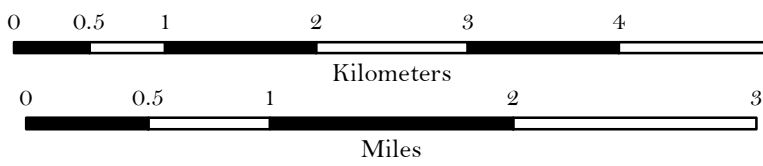ntage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

S3 **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 be only marginally justified.

Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas
Cacao
1 Land limitation
Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
★ ★ Capital City / City
◉ ○ Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

3816-II

INDEX MAP

3816-II | 3916-III
3815-I | 3915-IV

MISCELLANEOUS INFORMATION

REPUBLIC OF THE PHILIPPINES
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Tel/Fax No. :(+632) 332-9534   E-mail : bswmclientcenter@yahoo.com

KALILANGAN
Poblacion
Kilikili West
Piagma
Kilikili East

Bagumbayan

Maca-opao

Buntongun

Panang

BUKIDNON

Park Area
(Pob.)

L A N A O   D E L   S U R

Serran
Village

Banga

Lico

Balatin

Sagua-an

Pilintangan

Extension
Poblacion

Manila Group

Muslim
Village

Western
Wao (Pob.)

WAO
Eastern
Wao

Kadingilan

Christian
Village

M
A
G
U
I
N
D
A
N
A
O

Bo-ot

Cebuano Group

N O R T H
C O T A B A T O

Gastay

Paradise

Kalawaig

Malinao

BANISILAN

Miguel
Macasarte

Wadya

Tumbao-Camalig

Dado

Poblacion II

Guiling

Carugmanan

LAND SUITABILITY MAP

ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

N W E S

SCALE 1 : 50 000

0	0.5	1	2	3	4	5

Kilometers

0	0.5	1	2	3

Miles

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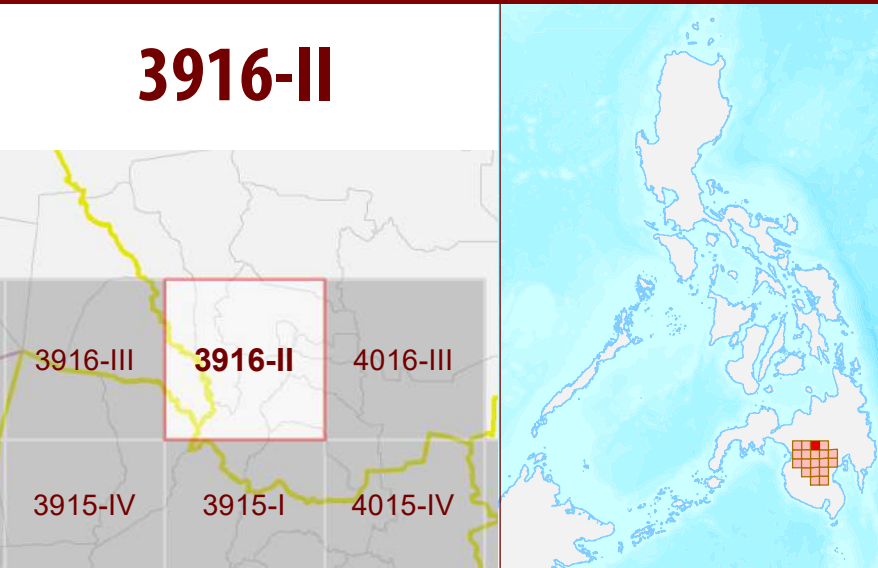
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   **1** Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
★★ Capital City / City
◉ Capital Town / Town

LAND USE
Built-up   Fishpond   Mangrove

ADJOINING SHEETS

3916-III

3816-II	3916-III	3916-II
3815-I	3915-IV	3915-I

INDEX MAP

MISCELLANEOUS INFORMATION

LAND SUITABILITY MAP
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers

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LEGEND

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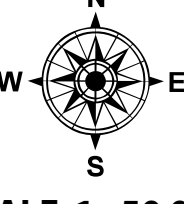
S2 **Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

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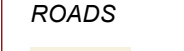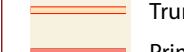
OTHER SIGNS

NGP Areas

Cacao

1 Land limitation

Land use

CONVENTIONAL SIGNS

ROADS
- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY
- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY
- Sea / Shoreline
- Lakes / Rivers

PLACES
- Capital City / City
- Capital Town / Town

LAND USE
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

3916-II

| 3916-III | **3916-II** | 4016-III |
| 3915-IV | 3915-I | 4015-IV |

INDEX MAP

Map labels (place names):
Ninoy Aquino, Gandingan, Kasigkot, Buyot, Pualas, Maraymaray, Sinangguyan, Mahayahay, Old Nongnongan, San Nicolas (Banban), Don Carlos Norte, DON CARLOS, Don Carlos Sur (Pob.), Bismartz, New Nongnongan (Masimag), Calaocalao, San Antonio West, Mauswagon, Bershiba, Pinamaloy, Kalubihon, Cabadiangan, Mimbuaya, Public, Kawilihan, Bobong, Kauyonan, Lampanusan, Bangahan, Kiara, San Francisco, Malobalo, Kalumihan, Kipadukan, Bocboc, New Visayas, Santo Rosario, Gata, Malaigang, **BUKIDNON**, Baroy, Salvacion, Kapalaran, Osmeña, Malipayon, Langcataon, Poblacion, Husayan, Sagbayan, Kabatangan, Sibonga, Bugwak, New Visayas, Pagalongan, Malinao, Romagooc, Barongcot, Katutungan (Pob.), Kimanait, Kibogtok, Pay-as, Old Kibawe, West Kibawe (Pob.), Palma, **KIBAWE**, **LANAO DEL SUR**, Milaya, Bagor, East Kibawe (Pob.), Capayangan, Amoyong, Payad, Gutapol, Labuagon, Kibalagon, San Andres, Spring, Marapangi, Kiorao, Matampay, Mabuhay, Sampagar, **NORTH COTABATO**, Pinamulaan, Cabadiangan, Balaoro, New Compostela, KADINGILAN

Map place labels

Merangerang
San Jose
QUEZON
Poblacion (Kiokong)
Mahayag
Camp I
Libertad
Minongan
Minsalirak
Salawagan
Manuto
Cawayan
Minsalagan
San Isidro
San Roque
Kibatang
Manlamonay
San Antonio East
Mibantang
Delapa
San Isidro
Cebole
Linabo
Minsamongan
Pinilayan
KITAOTAO
Poblacion
Bolocaon
Kimolong
Kiburiao
Santa Cruz
Lipa
C-Handumanan
Kitaihon
Magsaysay
Lourdes
Macarthur
San Lorenzo
DANGCAGAN
Poblacion
B U K I D N O N
Kianggat
Balangigay
Puntian
East Dalurong
Palacapao
San Vicente
Kahusayan
Tandong
Miaray
West Dalurong
Migcuya
Kitobo
Balukbukan
Sinaysayan (Dalurong)
Talahiron
Dolorosa
Sinuda (Simod)
Balintawak
Natulongan
Pagan
Metebagao
Tawas
Magsaysay
Sagundanon
Napalico
Kipilas
Cagawasan
Kiulom

N O R T H   C O T A B A T O

LEGEND

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

| 0 | 0.5 | 1 | 2 | 3 | 4 | 5 |
Kilometers

| 0 | 0.5 | 1 | 2 | 3 |
Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

S1 **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.

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S3 **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 be only marginally justified.

Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas
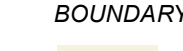Cacao
Land limitation
Land use
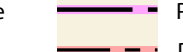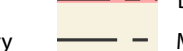
CONVENTIONAL SIGNS

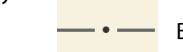**ROADS**
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
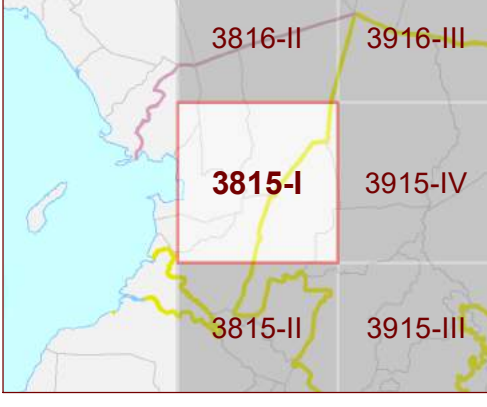Capital City / City
Capital Town / Town
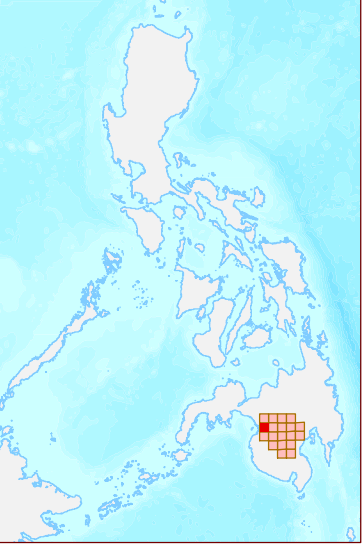
LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

4016-III

| 3916-II | 4016-III | |
| 3915-I | 4015-IV | 4015-I |

INDEX MAP

MISCELLANEOUS INFORMATION

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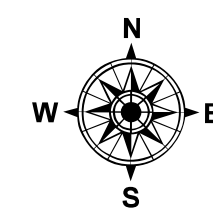Tel/Fax No.:(+632) 332-9534 E-mail : bswmcitcenter@yahoo.com

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

N
W · E
S

SCALE 1 : 50 000

0   0.5   1   2   3   4   5
Kilometers

0   0.5   1   2   3
Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas
Cacao
1 Land limitation
Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

3815-I

3816-II	3916-III
3815-I	3915-IV
3815-II	3915-III

INDEX MAP

MISCELLANEOUS INFORMATION

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 : bswmlcentcenter@yahoo.com

Map place names:
Langco, Barira (Pob.), Lamin, Minabay, Mataya, Nuyo, Bugasan Norte, MATANOG, Bugasan Sur (Pob.), Bualan, Liong, Lipawan, Cabayuan, BARIRA, Lipa, Oring, Edcor (Gallego Edcor), Dinganen, MAGUINDANAO, Panggao, Lipa, Pinantao, Marang, Rominimbang, Ampuan, Macasandag, Gadung, Korosoyan, Making, Manion, Aratuc, Patot, Renibon, Gumagadong Calawag, Kimarayang, Campo Islam, Poblacion II, PARANG, Gadungan, Orandang, Poblacion, Nituan, Magsaysay, Samberen, Kabuan, New Libaras, Mulok, Payong-payong, Pingping, NORTH COTABATO, Anick Upper Baluga, Tuka, SULTAN MASTURA, Guiday T. Biruar, Olas, Nekitan, Maluao, New Panay, Midpapan II, Kimarayang, Matengen, Tambo, Tapayan, Balut, Bungabong, New Culasi, Buluan, Tigbawan, Ulaman, Macabico (Macabiso), Darapanan, Midpapan I, North Manuangan, Presbitero, Demapaco, Solon, Ladia, Alamada, POBLACION III, PIGKAWAYAN, Balogo, Capayuran, Upper Baguer (Baguer), Senditan, Makaguiling, Pigcalagan, Central Panatan, South Manuangan, Poblacion I, Tubon, Gang, Rebuken, Dalumangcob (Pob.), Crossing Simuay, Bulucaon, Banucagon, Sinawingan

NORTH COTABATO

LAND SUITABILITY MAP
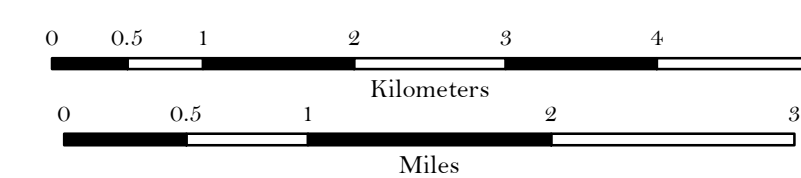**ROBUSTA, LIBERICA
AND EXCELSA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers

Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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LEGEND

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   Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   **1** Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS   *BOUNDARY*   *HYDROLOGY*

Expressway   Region   Sea / Shoreline
Trunk line   Province   Lakes / Rivers
Primary   District
Secondary   Municipality   *PLACES*
Tertiary   Barangay   ★ Capital City / City
    ◉ Capital Town / Town

LAND USE

Built-up   Fishpond   Mangrove

ADJOINING SHEETS

3816-II	3916-III	3916-II
3815-I	**3915-IV**	3915-I
3815-II	3915-III	3915-II

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MISCELLANEOUS INFORMATION

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Project Leader   : BERNARDO B. PASCUA
GIS and Cartography   : IRVIN K. SAMALCA

Funding Agency   : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
Collaborating Agencies   : Philippine Council on Agriculture and Fisheries (PCAF)
    : Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga)
    : Local Government Unit (LGU) of covered provinces and municipalities

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REPUBLIC OF THE PHILIPPINES
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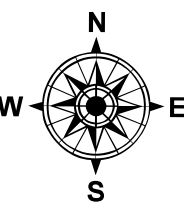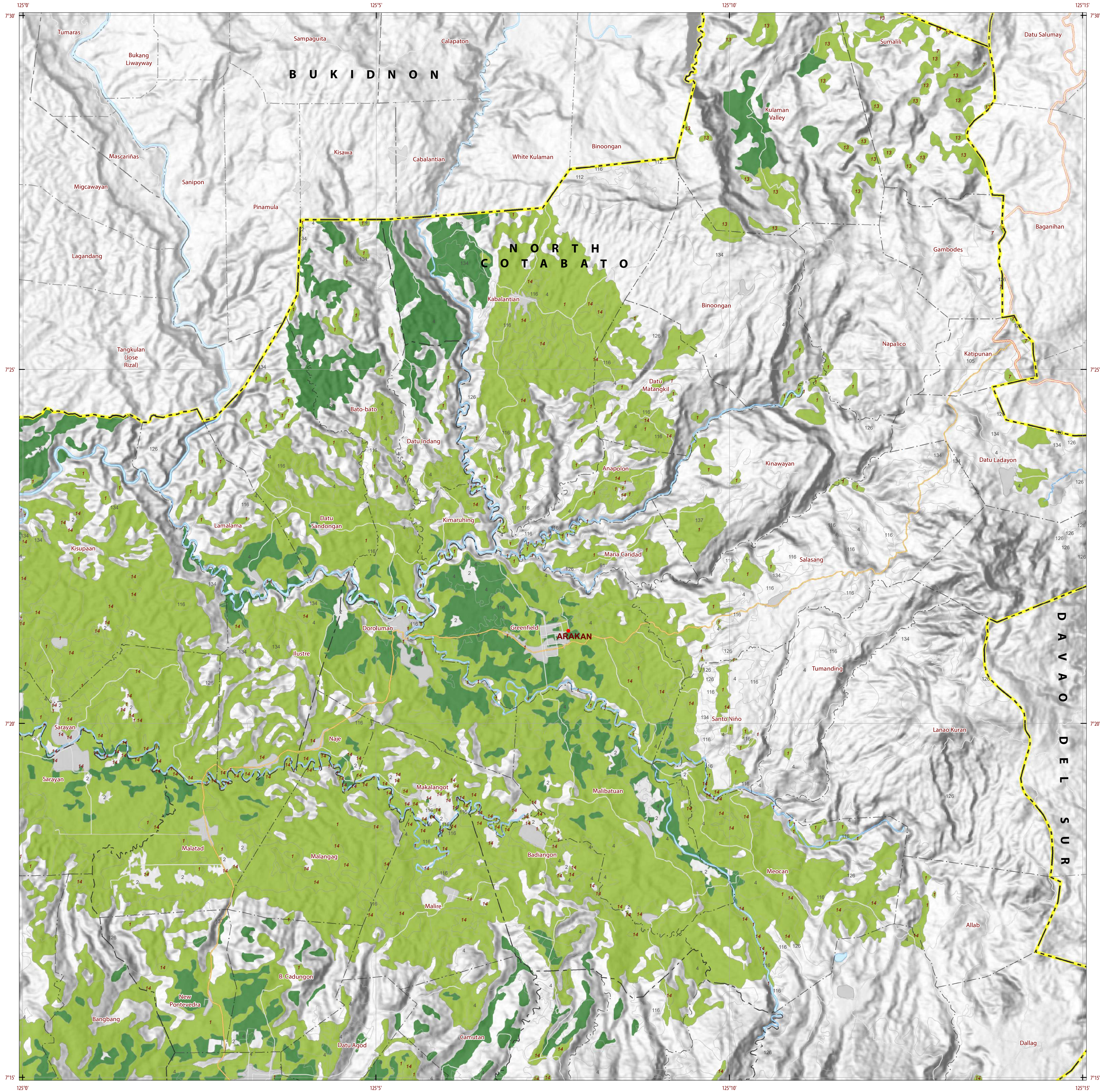Tel/Fax No.:(+632) 332-9534   E-mail : bswmclientcenter@yahoo.com

LAND SUITABILITY MAP
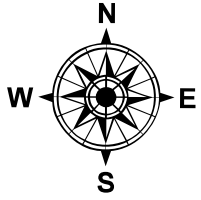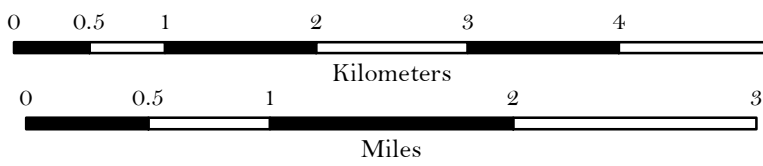**ROBUSTA, LIBERICA**
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

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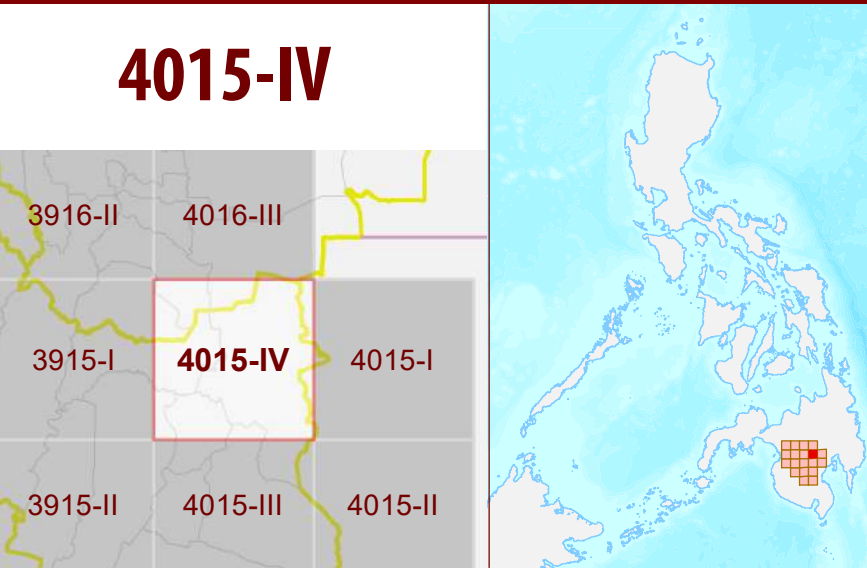
    Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   **1** Land limitation
Cacao   Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
★★ Capital City / City
◉ Capital Town / Town

LAND USE
Built-up   Fishpond   Mangrove

ADJOINING SHEETS   **INDEX MAP**

3915-I

3916-III	3916-II	4016-III
3915-IV	**3915-I**	4015-IV
3915-III	3915-II	4015-III

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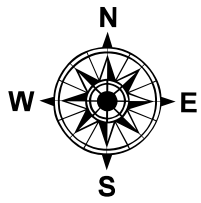
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
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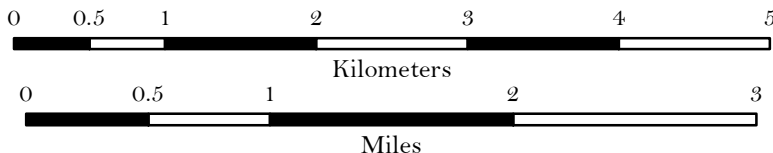Tel/Fax No.: (+632) 332-9534   E-mail : bswmclientcenter@yahoo.com

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers

Miles

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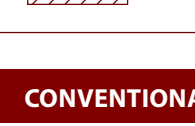
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Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   **1** Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS
- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY
- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY
- Sea / Shoreline
- Lakes / Rivers

PLACES
- ★ Capital City / City
- ◉ Capital Town / Town

LAND USE
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

4015-IV

3916-II	4016-III	
3915-I	**4015-IV**	4015-I
3915-II	4015-III	4015-II

INDEX MAP

MISCELLANEOUS INFORMATION

REPUBLIC OF THE PHILIPPINES
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DEPARTMENT OF AGRICULTURE
1898

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

N
W E
S

SCALE 1 : 50 000

Kilometers
0   0.5   1   2   3   4   5

Miles
0   0.5   1   2   3

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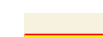
OTHER SIGNS

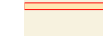NGP Areas   Land limitation
Cacao   Land use
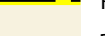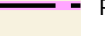
CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
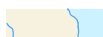Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up   Fishpond   Mangrove
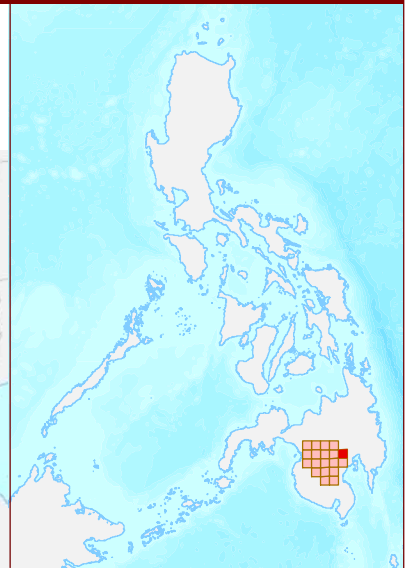
ADJOINING SHEETS

4015-I

4016-III		
4015-IV	4015-I	
4015-III	4015-II	

INDEX MAP

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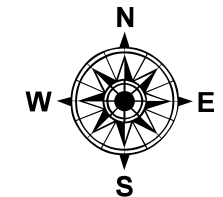**DEPARTMENT OF AGRICULTURE**
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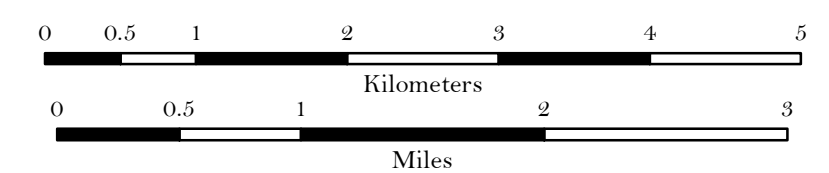Tel/Fax No.:(+632) 332-9534 · E-mail : bswmlcentcenter@yahoo.com

D A V A O   D E L   S U R

Tapak
Salapawan
Mapula
Gumitan
Lumiad
Paquibato (Pob.)
San Miguel
Magsaysay
Malamba
Malabog
Marilog
Bantol
Megkawayan
Saloy
Malamba
Inayangan
Sumimao
Salaysay

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

N W E S

SCALE 1 : 50 000

0   0.5   1   2   3   4   5
Kilometers

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
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NGP Areas
Cacao
Land limitation
Land use

CONVENTIONAL SIGNS

ROADS
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Primary
Secondary
Tertiary

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Province
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HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

3815-II

3815-I	3915-IV
3815-II	3915-III
	3914-IV

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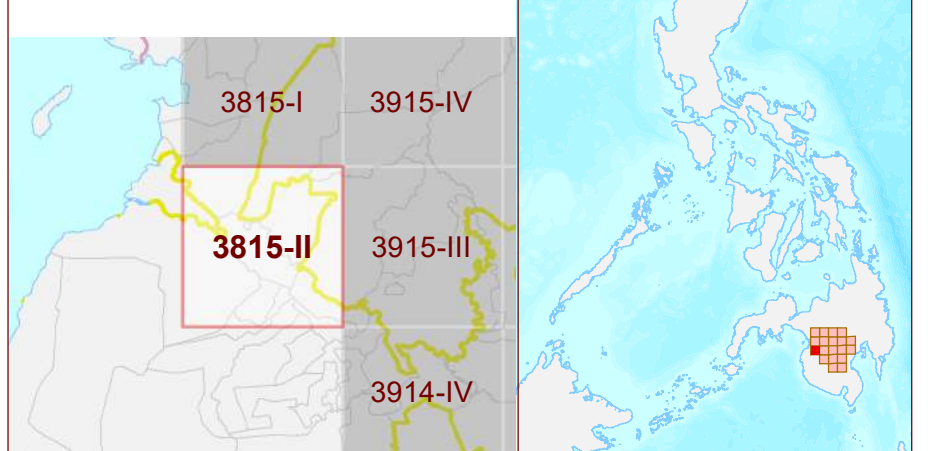Project Leader : BERNARDO B. PASCUA
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: Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga)
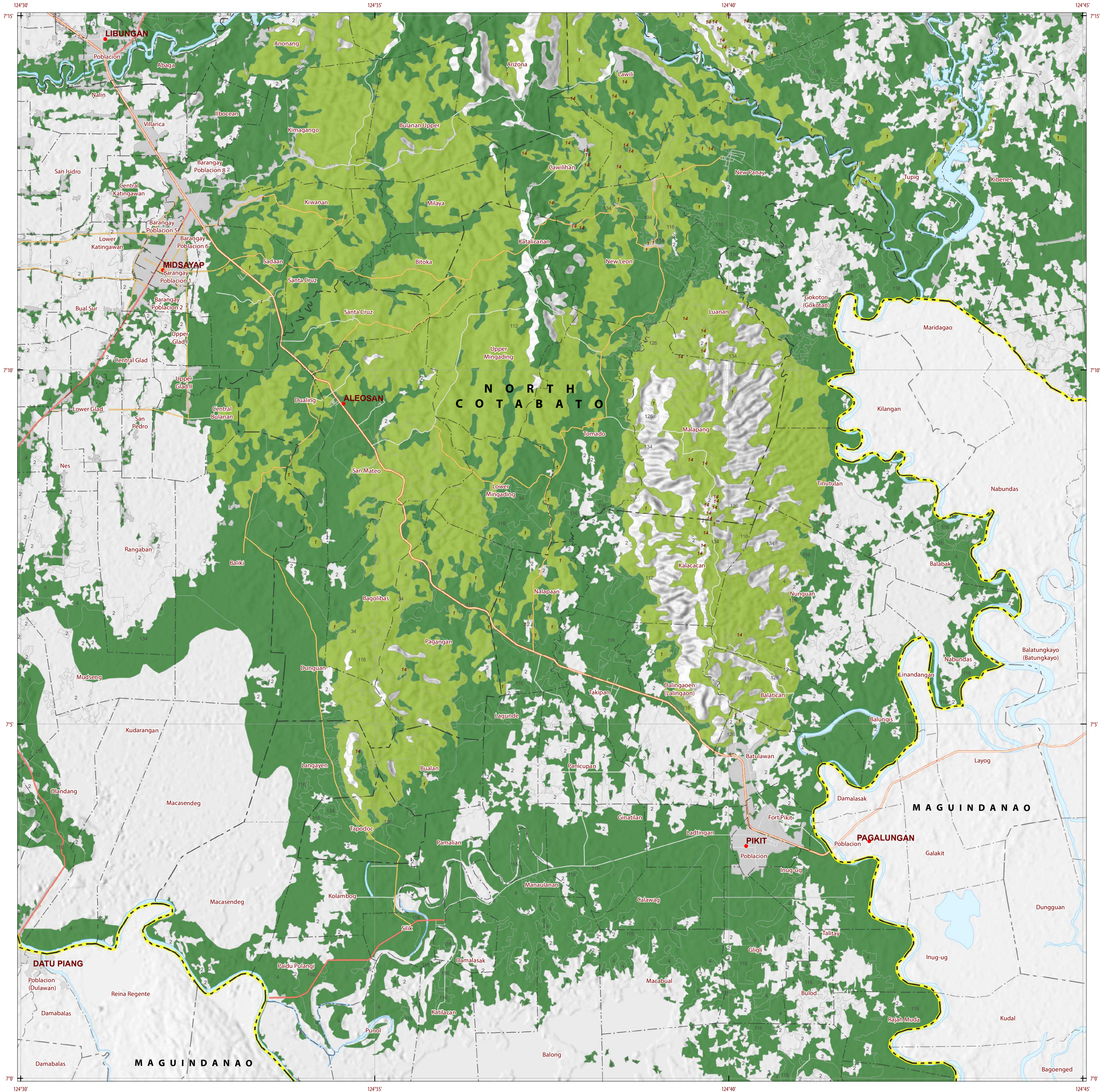: Local Government Unit (LGU) of covered provinces and municipalities

Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and Water Management (BSWM).

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BSWM, 2019. *Land Suitability Map Series for Robusta, Liberica and Excelsa Coffee of the PROVINCE OF NORTH COTABATO (50,000 Scale)* . CC BY NC SA 4.0.

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Tel/Fax No.:(+632) 332-9534 E-mail : bswmclientcenter@yahoo.com

PROVINCE OF NORTH COTABATO   Sheet 10 of 19   Sheet No. 3815-II

Map place labels:
NORTH COTABATO, MAGUINDANAO, COTABATO CITY, LIBUNGAN MARSH, EBPANAN MARSH, BUTILAN MARSH
NORTHERN KABUNTALAN, KABUNTALAN, TALITAY, DATU ODIN SINSUAT
Limbo, Ungap, Raguisi, Malagakit, Cabpangi, Baguer, Gumaga, Bulalo, Damaniog, Samsiman, Upper Labas, Salimbao, Pinaring, Pigkelegan (Ibotegen), Banatin, Datu Binasing, Buricaan, Gayonga, Central Labas, Patindeguen, Poblacion I, Poblacion, Poblacion II, Bulibod, Kapimpilan, Nara, Panatan, Balacayon, Paulino Labio, Lagumbinga, Kabuntalan, Nalinan, Katidtuan, Lower Baguer, Matilac, Sabaken, Poblacion VIII, Poblacion IX, Katamlangan (Matampay), Kakar, Lower Pangangkalan, Kadingilan, Kapimpilan, Palonggguen, Bual North, Tamontaka III, Upper Pangangkalan, Libungan Torreta, Datu Mantil, Damatog, Indatuan, Malingao, Tamontaka IV, Tanuel, Libungan, Guiawa, Tumbras, Salunay, Tambak, Dulangan, Bitu, Gambar, Tumaguinting, Kapinpilan, Margues, Payan, Pagalungan, Balong, Montay, Dadtumog (Dadtumeg), Ganta, Poblacion, Tugal, Upper Taviran, Bagumbayan, Pedtad, Matilak, Taviran, Langeban, Liong, Pe280, Sambulawan, Nabalawag, Baka, Pened, Montay, Lomopog, Bugawas, Sapalan, Kakar, Maitong, Kadingilan, Sifaren (Sifaran), Kurintem, Ambolodto, Kilalan, Pageda, Tugal, Damatulan, Nekitan, Bongued, Tugal, Kalipapa, Ambadao, Duamaninga, Kadigasan, Makir, Dados, Bintan (Bentan), Gadungan, Dado, Masigay, Alonganan, Balanakan, Benolen, Dalican Poblacion, Talitay, Manggay, Nunangan (Nunangen), Duamanga, Dado, Liong, Buayan, Kanguan, Sibuto, Kuden, Linamunan, Damablac, Masigay, Magaslong, Bagoenged, Brar, Kiladap, Makadayon, Tulunan, Binangga North, Katipuan, Muslim, Tee, Buayan, Magaslong, Mapayag, Alonganan, Liong, Balanakan
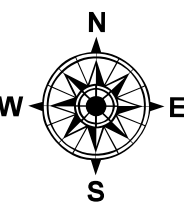
LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers
0   0.5   1   2   3   4   5

Miles
0   0.5   1   2   3

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

S1	**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.
S2	**Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations 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.
S3	**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 be only marginally justified.
	Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   1   Land limitation
Cacao   Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
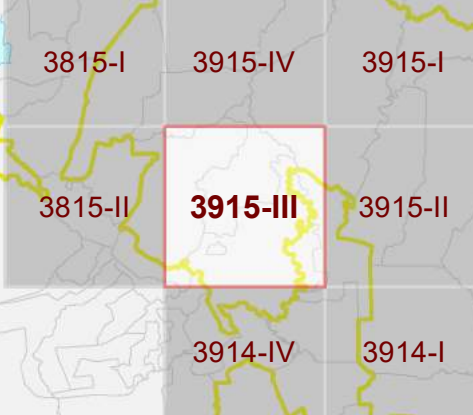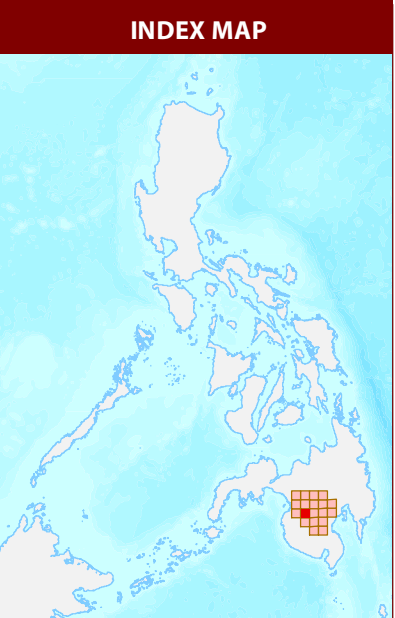Capital City / City
Capital Town / Town

LAND USE
Built-up   Fishpond   Mangrove

ADJOINING SHEETS

3915-III

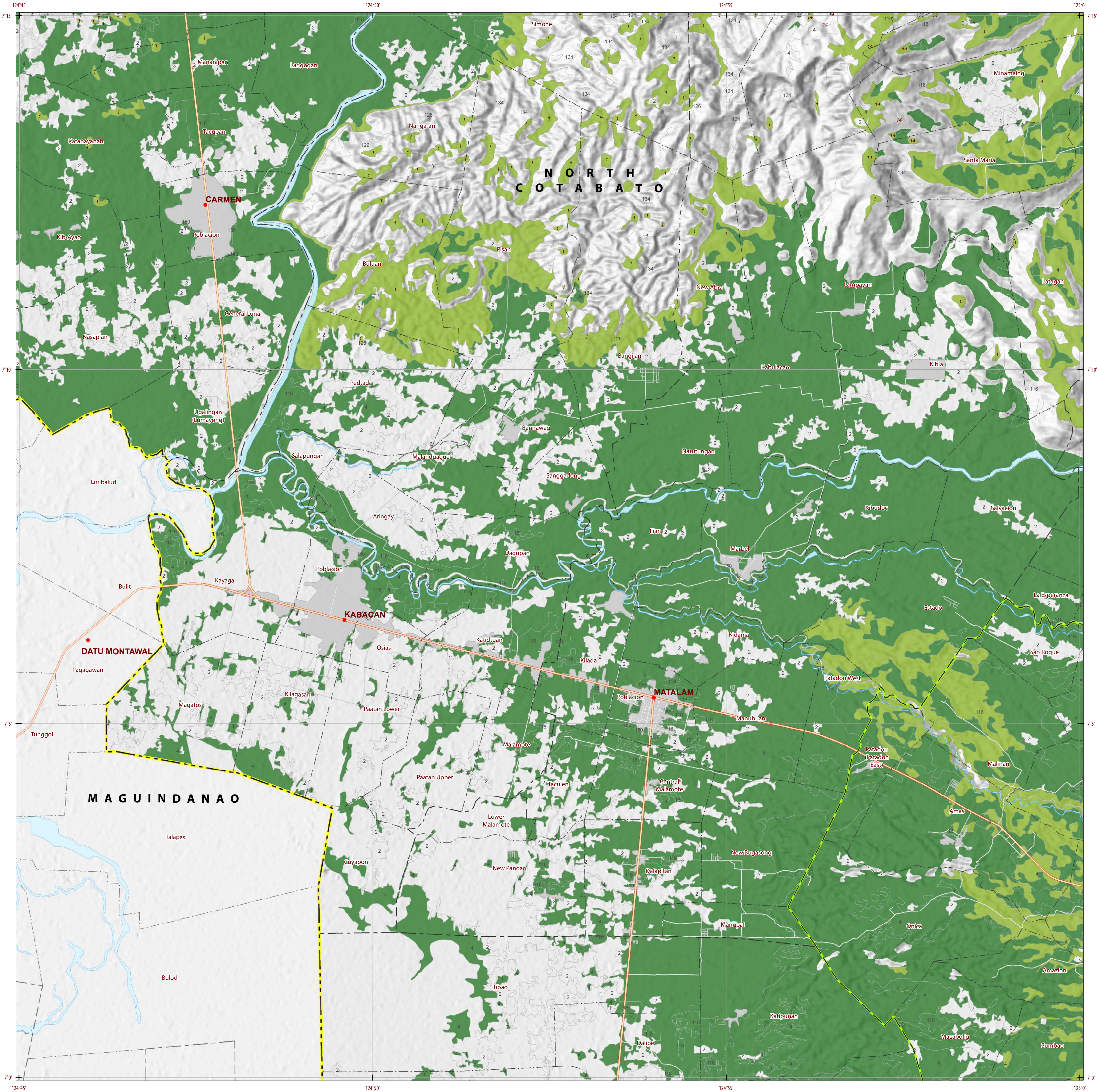| 3815-I | 3915-IV | 3915-I |
| 3815-II | **3915-III** | 3915-II |
| 3914-IV | 3914-I | |

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MISCELLANEOUS INFORMATION

SOURCES OF INFORMATION : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** implemented by BSWM (2017).

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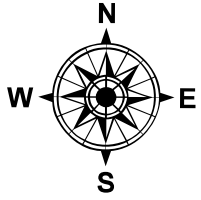
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NORTH COTABATO

MAGUINDANAO

DEPARTMENT OF AGRICULTURE
1898

DEPARTMENT OF AGRICULTURE
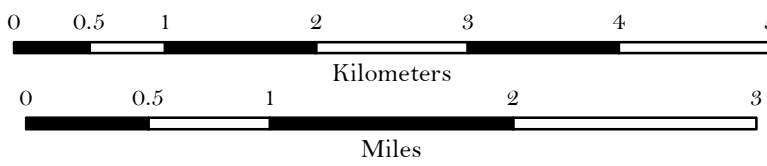
DEPARTMENT OF AGRICULTURE
1898

LAND SUITABILITY MAP
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers
0   0.5   1   2   3   4   5

Miles
0   0.5   1   2   3

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

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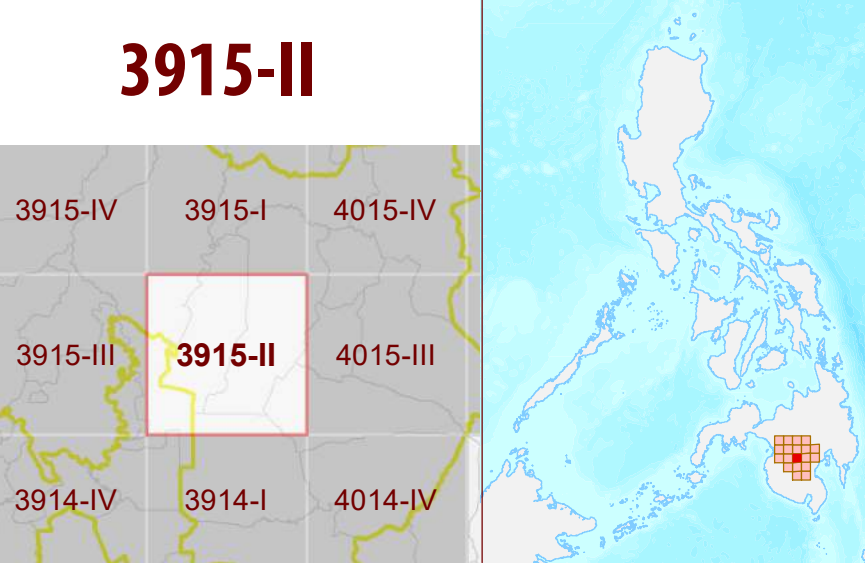
☐   **Not Suitable/ Not Relevant**

OTHER SIGNS

NGP Areas   **1** Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS
- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY
- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY
- Sea / Shoreline
- Lakes / Rivers

PLACES
- ★ Capital City / City
- ◉ Capital Town / Town

LAND USE
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

3915-II

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3915-III	**3915-II**	4015-III
3914-IV	3914-I	4014-IV

MISCELLANEOUS INFORMATION

REPUBLIC OF THE PHILIPPINES
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NORTH COTABATO

DAVAO DEL SUR

DEPARTMENT OF AGRICULTURE

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

| 0 | 0.5 | 1 | 2 | 3 | 4 | 5 |
Kilometers
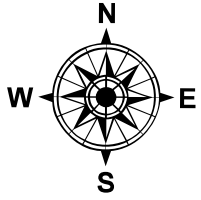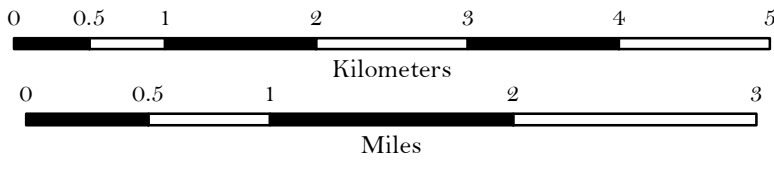
| 0 | 0.5 | 1 | 2 | 3 |
Miles

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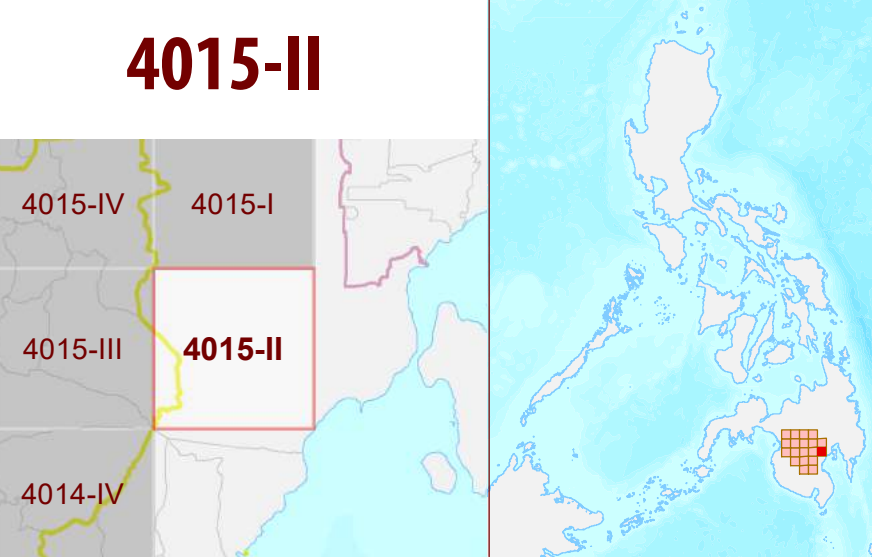
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas

Cacao

1 Land limitation

1 Land use

CONVENTIONAL SIGNS

ROADS
- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY
- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY
- Sea / Shoreline
- Lakes / Rivers

PLACES
- ★ ★ Capital City / City
- ◉ Capital Town / Town

LAND USE
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

4015-III

3915-I	4015-IV	4015-I
3915-II	**4015-III**	4015-II
3914-I	4014-IV	

INDEX MAP

MISCELLANEOUS INFORMATION

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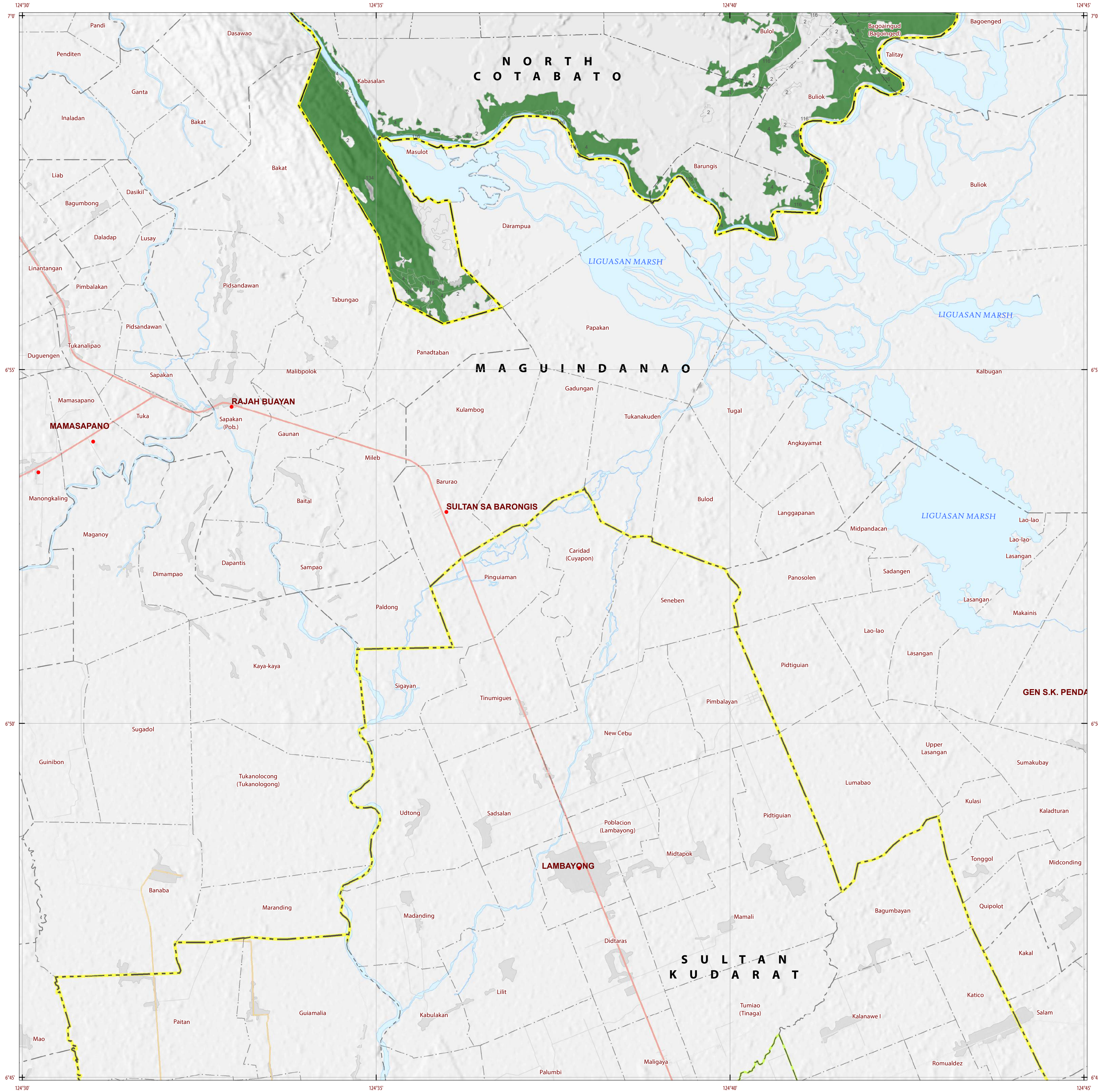
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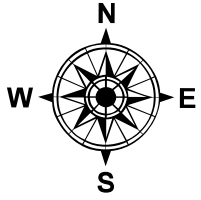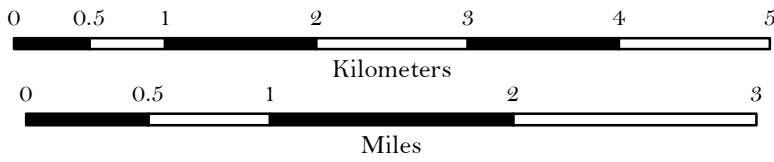Tel/Fax No. :(+632) 332-9534 E-mail : bswmclientcenter@yahoo.com

LAND SUITABILITY MAP
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

| 0 | 0.5 | 1 | 2 | 3 | 4 | 5 |
Kilometers

| 0 | 0.5 | 1 | 2 | 3 |
Miles

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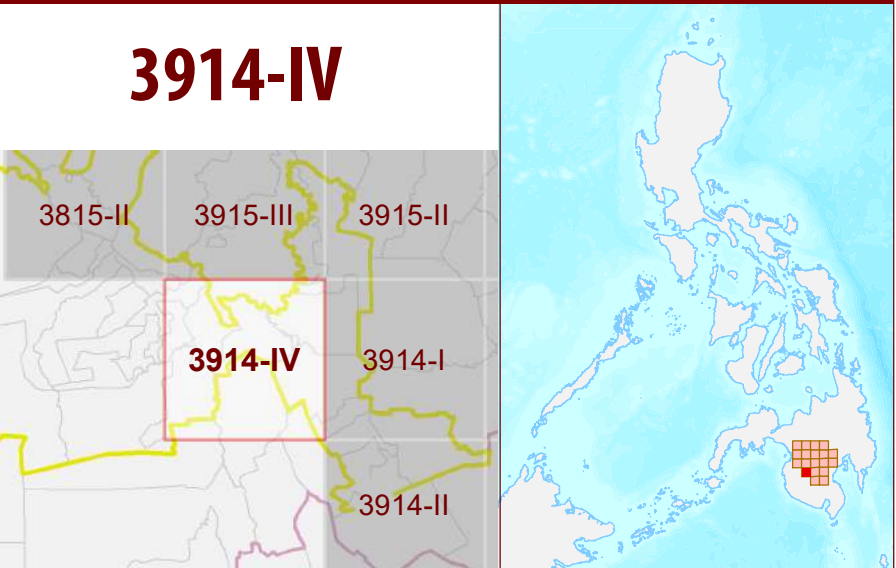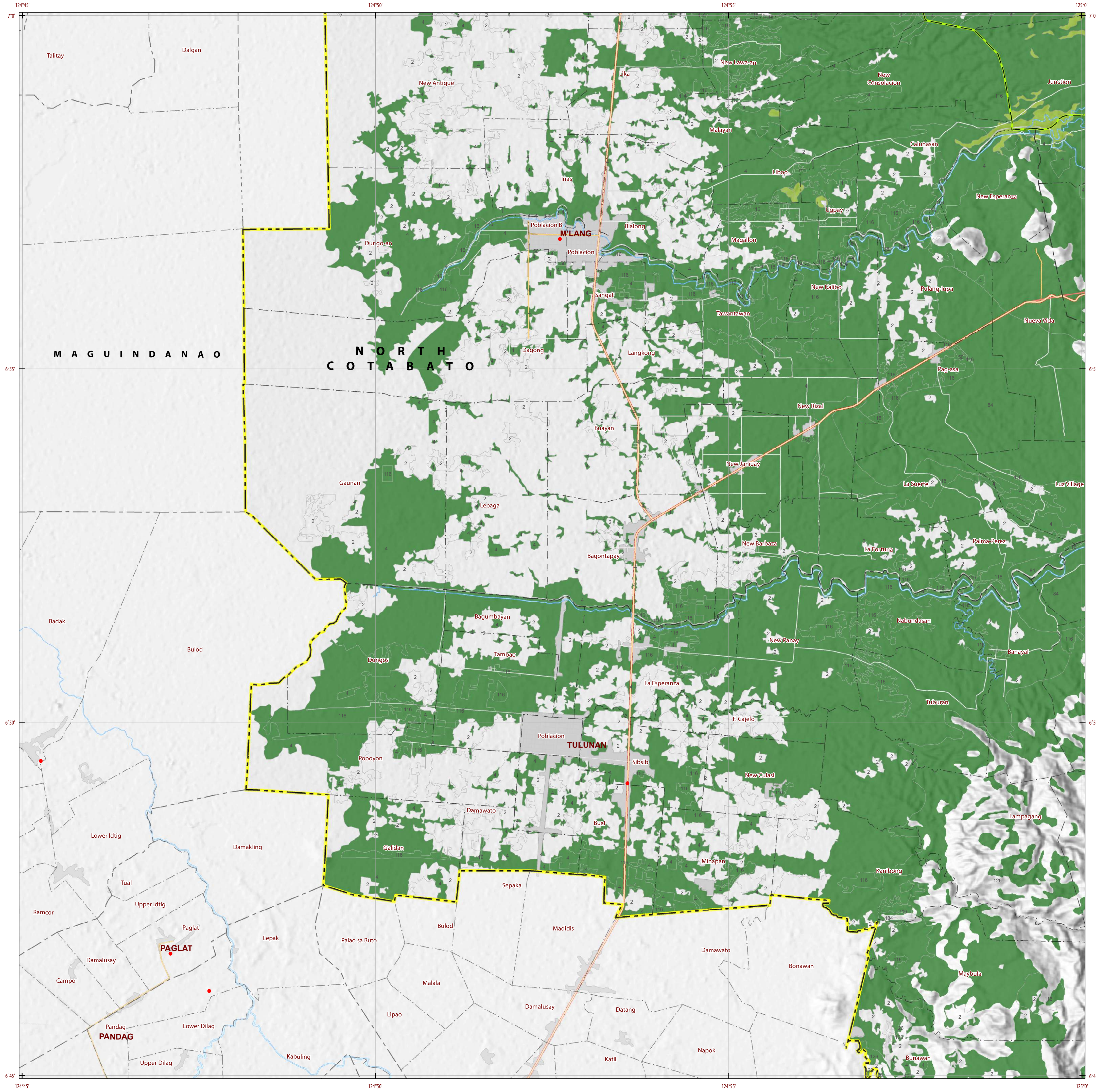
   Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS	BOUNDARY	HYDROLOGY
Expressway	Region	Sea / Shoreline
Trunk line	Province	Lakes / Rivers
Primary	District	PLACES
Secondary	Municipality	Capital City / City
Tertiary	Barangay	Capital Town / Town

LAND USE

Built-up   Fishpond   Mangrove

ADJOINING SHEETS

4015-II

4015-IV	4015-I
4015-III	**4015-II**
4014-IV	

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Map labels (place names):

Suawan (Tuli), Tamugan, Lamanan, Dominga, Dalag, Dacudao, Gumalang, Lacson, Pangyan, Wines, Talomo River, Biao Joaquin, Tambobong, Malagos, Calinan (Pob.), Tawan-tawan, Baguio (Pob.), Wangan, Riverside, Biao Guianga, DAVAO DEL SUR, Cawayan, Cadalian, Subasta, Los Amigos, Balengaeng, Ula, Tagakpan, Angalan, Sirib, Carmen, Tugbok (Pob.), Tamayong, Manuel Guianga, Manambulan, Mintal, Daliaon Plantation, Camansi, Mulig, Bago Oshiro, NORTH COTABATO, Tagluno, Mount Apo National Park under Jurisdiction of Davao City, Tungakalan, Alambre, Bangkas Heights, Kilate, Baliok, Tagurano, Bato, Lubogan, Eden, Bayabas, Crossing Bayabas, Marapangi, Catigan, Toril (Pob.), Lizada, Mount Apo National Park under Jurisdiction of Davao City

LAND SUITABILITY MAP
ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

0   0.5   1   2   3   4   5
Kilometers

0   0.5   1   2   3
Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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LEGEND

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OTHER SIGNS

NGP Areas   1 Land limitation
Cacao   Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

3914-IV

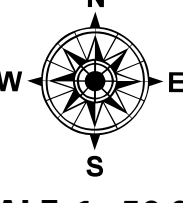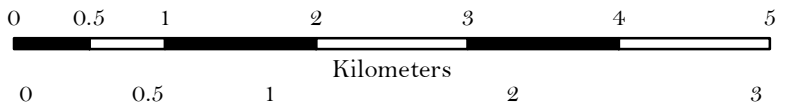| 3815-II | 3915-III | 3915-II |
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| | 3914-II | |

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MISCELLANEOUS INFORMATION

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Map labels: NORTH COTABATO, MAGUINDANAO, SULTAN KUDARAT, LIGUASAN MARSH, RAJAH BUAYAN, MAMASAPANO, SULTAN SA BARONGIS, LAMBAYONG, GEN S.K. PENDA

Place names: Pandi, Dasawao, Bulol, Bagoaingud (Bagoingod), Bagoenged, Penditen, Ganta, Kabasalan, Talitay, Inaladan, Bakat, Buliok, Liab, Dasikil, Masulot, Barungis, Buliok, Bagumbong, Daladap, Lusay, Darampua, Linantangan, Pimbalakan, Pidsandawan, Tabungao, Papakan, Tukanalipao, Duguengen, Pidsandawan, Panadtaban, Sapakan, Malibpolok, Gadungan, Kulambog, Tukanakuden, Tugal, Kalbugan, Mamasapano, Tuka, Sapakan (Pob.), Gaunan, Mileb, Angkayamat, Manongkaling, Baital, Barurao, Bulod, Langgapanan, Midpandacan, Lao-lao, Lao-lao, Lasangan, Maganoy, Dapantis, Sampao, Pinguiaman, Caridad (Cuyapon), Seneben, Panosolen, Sadangen, Lasangan, Makainis, Dimampao, Paldong, Lao-lao, Lasangan, Kaya-kaya, Sigayan, Tinumigues, Pidtiguian, Pimbalayan, Guinibon, Sugadol, New Cebu, Upper Lasangan, Sumakubay, Tukanolocong (Tukanologong), Udtong, Sadsalan, Poblacion (Lambayong), Lumabao, Kulasi, Kaladturan, Midtapok, Pidtiguian, Tonggol, Midconding, Banaba, Maranding, Madanding, Mamali, Bagumbayan, Quipolot, Didtaras, Kakal, Paitan, Guiamalia, Kabulakan, Lilit, Tumiao (Tinaga), Kalanawe I, Katico, Salam, Mao, Palumbi, Maligaya, Romualdez

7°0'   **6°55'**   **6°50'**   **6°45'**   **124°30'**   **124°35'**   **124°40'**   **124°45'**
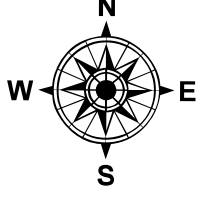
LAND SUITABILITY MAP
ROBUSTA, LIBERICA
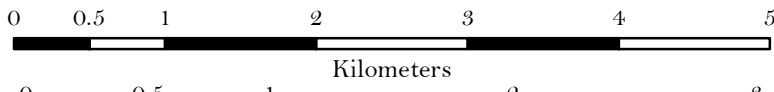**AND EXCELSA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

0	0.5	1	2	3	4	5

Kilometers

0	0.5	1	2	3

Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas
Cacao
Land limitation
Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
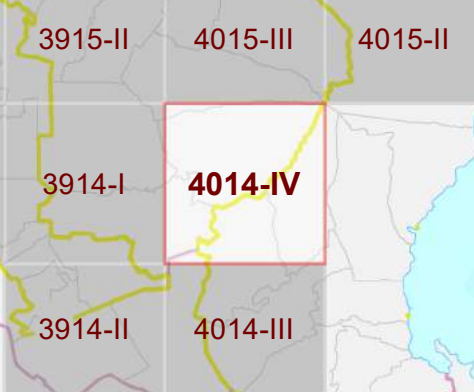Capital City / City
Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

3914-I

3915-III	3915-II	4015-III
3914-IV	**3914-I**	4014-IV
	3914-II	4014-III

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MISCELLANEOUS INFORMATION

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 SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS

SCALE 1 : 50 000

Kilometers

Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

S1   **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.

S2   **Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations 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.

S3   **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 be only marginally justified.

  Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas   **1** Land limitation

Cacao   Land use

CONVENTIONAL SIGNS

ROADS
- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY
- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY
- Sea / Shoreline
- Lakes / Rivers

PLACES
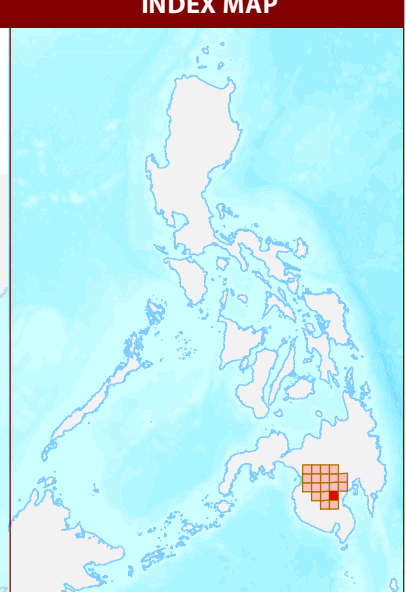- ★ Capital City / City
- ◉ Capital Town / Town

LAND USE
- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

3915-II	4015-III	4015-II
3914-I	**4014-IV**	
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4014-IV

MISCELLANEOUS INFORMATION

NORTH COTABATO

MAGUINDANAO

SULTAN KUDARAT

SOUTH COTABATO

LAKE BULUAN

Places and labels (selected):
Kayupo (Cuyapo), Malangit, Pedtubo, Poblacion, BULUAN, Bayawa, Popol, Malingon, Bannawag, Maslabeng, Talitay, MANGUDADATU, Estrella, Tumbao, Dumadalig, Bukay Pait, Maibo, New Iloilo, Maindang, Antong, New Lambunao, Manili, San Felipe, Caloocan, Libas, Morales, Tinongcop, Zone I (Pob.), KORONADAL, General Paulino Santos (Bo. 1), Namnama, Cabuling, Sampao, Mamali, Bayasong, Lutayan Proper, Tamnag (Pob.), LUTAYAN, Blingkong, San Jose (Bo. 5), Avanceña (Bo. 3), Rotonda, Esperanza, Santo Niño (Bo. 2), Mabini, Cacub, Palavilla, Lasak, Bantangan (Lasak), Telafas, Libertad, Eday, Sisiman, Poblacion, Natividad, Makat (Sumali Pas), COLUMBIO, Maligaya, Mayo, Lomoyon, Lomoyon, Elbebe, Salendab, Manindolo, Kalumenga (Kalumanga), Alip (Pob.), DATU PAGLAS, Poblacion, Kayaga, Mangadeg, Puya, Mao, Upper Siling, Lower Siling, Daladagan, Kalian, Tenok, Makat, Digal

LEGEND

SUITABILITY CLASSES

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Not Suitable/ Not Relevant

OTHER SIGNS
NGP Areas   Land limitation
Cacao   Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up   Fishpond   Mangrove

ADJOINING SHEETS   **INDEX MAP**

3914-II

| 3914-IV | 3914-I | 4014-IV |
| | 3914-II | 4014-III |

REPUBLIC OF THE PHILIPPINES
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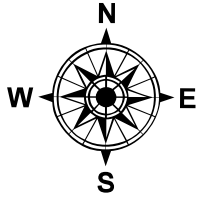Tel/Fax No.:(+632) 332-9534   E-mail : bswmclientcenter@yahoo.com

DEPARTMENT OF AGRICULTURE 1898
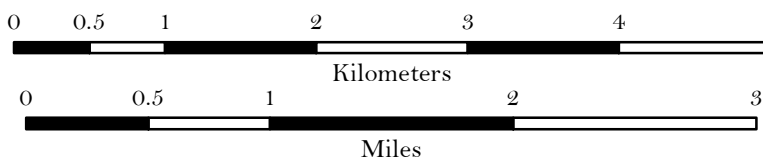**DEPARTMENT OF AGRICULTURE**
DEPARTMENT OF AGRICULTURE 1898

LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

N W E S

SCALE 1 : 50 000

0   0.5   1   2   3   4   5
Kilometers

0   0.5   1   2   3
Miles

Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

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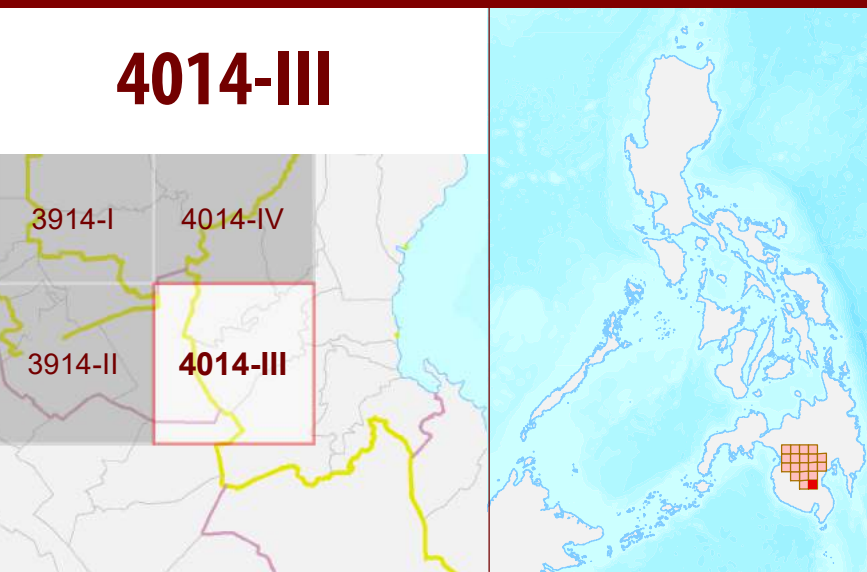
Not Suitable/ Not Relevant

OTHER SIGNS

NGP Areas
Cacao
1 Land limitation
Land use

CONVENTIONAL SIGNS

ROADS
Expressway
Trunk line
Primary
Secondary
Tertiary

BOUNDARY
Region
Province
District
Municipality
Barangay

HYDROLOGY
Sea / Shoreline
Lakes / Rivers

PLACES
Capital City / City
Capital Town / Town

LAND USE
Built-up
Fishpond
Mangrove

ADJOINING SHEETS

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MISCELLANEOUS INFORMATION

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Map place names: Elbebe, Polomolok, Sucob, Malawanit, Sinapulan, Colonsabak, Datablao, Palo, Danlag, Pasig, Kisulan, Abnate, Kimlawis, Cogon-Bacaca, Dongan-Pekong, Tacul, San Jose, Ihan, Panaglib, Maraga-a, Bagong Silang, Waterfall, Manual, Saub, Kibongbong, Santo Niño, San Isidro, Tibongbong, La Suerte, Bagumbayan, Molopolo, Saboy, Towak, Asbang, Buri, Kauswagan, Bangkal, Manga, Langa-an, Kabasagan, Kapok, Tamlangon, Glamang, Asinan, New Katipunan, San Miguel, Poblacion, Ceboza, La Union, Buas, Malabang Damsite, MATANAO, New Murcia, Blocon, Lower Marber, Kasuga, Dalumay, Bacungan, San Miguel, New Visayas, San Jose, New Quezon

SULTAN KUDARAT
DAVAO DEL SUR
SOUTH COTABATO