

LAND SUITABILITY MAP

ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

PROVINCE OF COMPOSTELA VALLEY

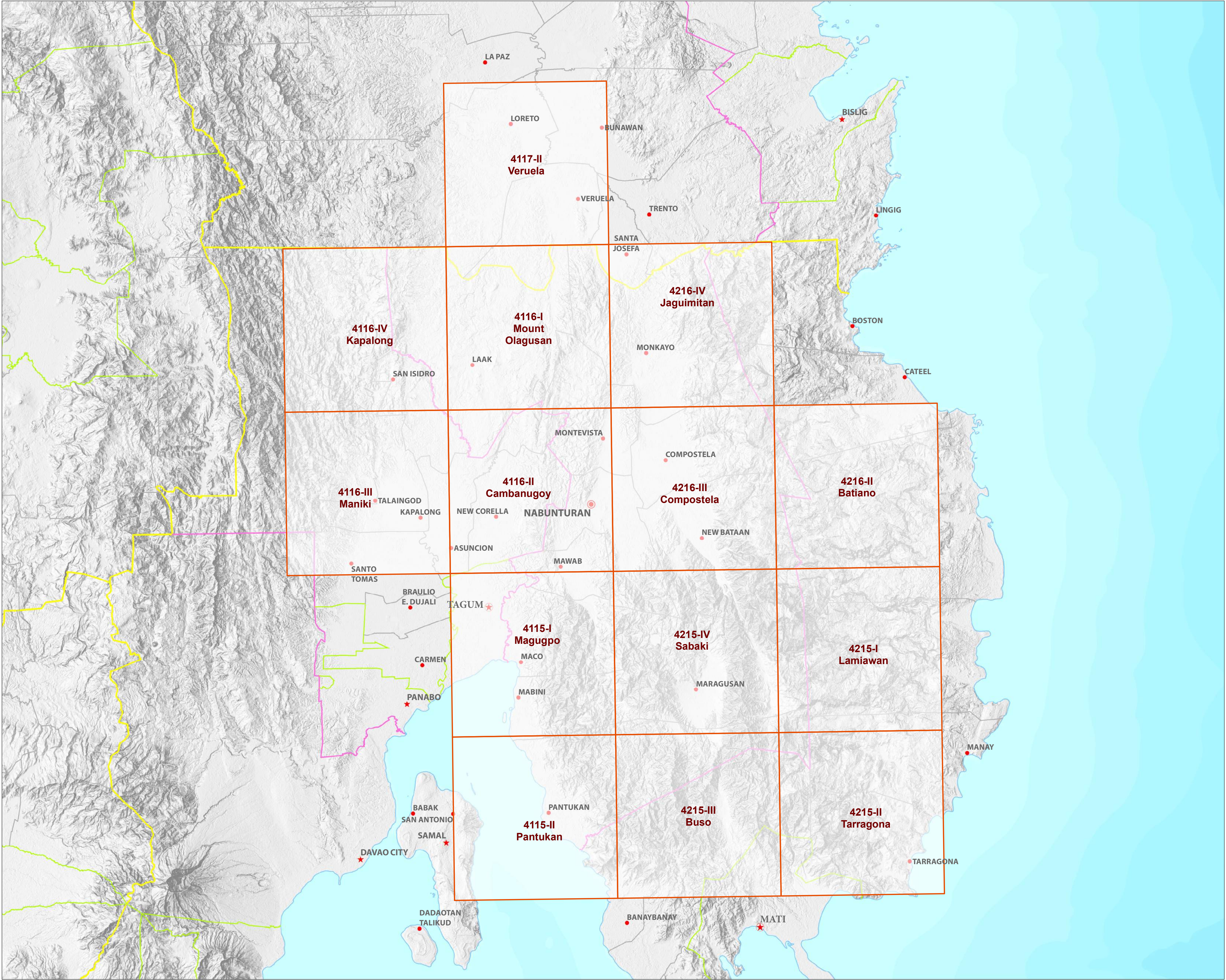


REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT

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MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF COMPOSTELA VALLEY



LEGEND

Places

- ★ Capital City
- ★ City
- Capital Town
- Town

Administrative Boundary

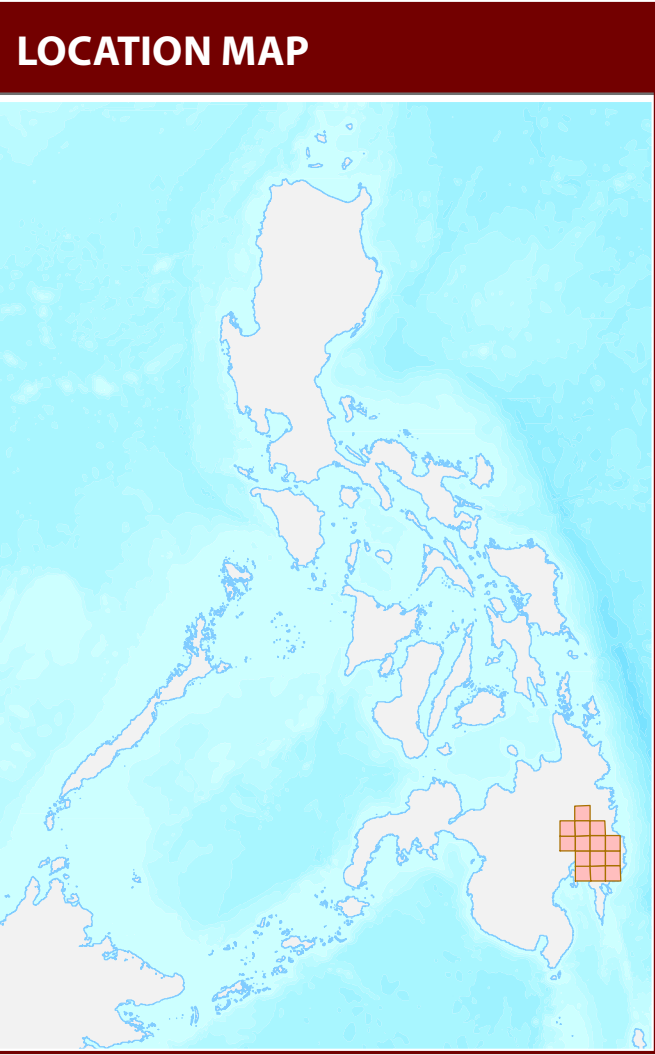
- Regional
- Provincial
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- Municipal

Map Index

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Topographic Relief

Bathymetry



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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LAND SUITABILITY MAP FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS COMPOSTELA VALLEY, REGION XI

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* | | Banana | | Corn | | Oil palm | | Mango | | Other crops | | | |
| | S1 | S2 | S3 | | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | | | | |
| COMPOSTELA | - | - | 404 | 404 | 2,326 | - | 78 | 61 | 18 | - | 3,760 | - | 1,133 | - | 43 | - | - | - | - | 29 | - | 7,449 |
| LAAK | 24 | - | 4 | 28 | 10,778 | 19,072 | 3,515 | 2,699 | 1,455 | 2,918 | 767 | 568 | 711 | 403 | - | - | - | - | - | - | - | 42,886 |
| MABINI | - | - | 105 | 105 | 2,356 | 8 | 83 | - | 250 | - | 1,223 | - | - | - | - | - | - | - | - | - | - | 3,920 |
| MACO | - | - | 4 | 4 | 4,367 | 3 | 157 | 21 | 157 | 219 | 1,197 | - | 254 | - | - | - | - | - | - | 5 | - | 6,380 |
| MARAGUSAN | - | 2,287 | 3,841 | 6,128 | - | - | - | 200 | - | 8 | - | 55 | - | - | - | - | - | - | - | - | 14 | 277 |
| MAWAB | - | - | - | - | 2,794 | 34 | 672 | - | 954 | 2 | 785 | 2 | 1,229 | 5 | - | - | 21 | - | - | - | - | 6,497 |
| MONKAYO | 219 | 3 | 422 | 644 | 12,096 | 2,397 | 2,053 | - | 939 | - | 2,239 | - | 582 | - | 71 | - | - | - | - | 9 | - | 20,386 |
| MONTEVISTA | - | - | - | - | 2,093 | 6,135 | 460 | 18 | 185 | - | 1,037 | 1 | 15 | 7 | - | - | - | - | 2 | 2 | - | 9,954 |
| NABUNTURAN | - | - | - | - | 8,356 | 193 | 195 | - | 705 | - | 763 | 19 | 72 | - | 182 | - | 1 | - | - | 6 | - | 10,491 |
| NEW BATAAN | - | - | - | - | 5,921 | - | 388 | - | 50 | - | 116 | - | 306 | - | - | - | - | - | - | - | - | 6,782 |
| PANTUKAN | - | - | 33 | 33 | 6,798 | - | 90 | 65 | 313 | - | 1,153 | 216 | 123 | - | - | - | 51 | - | - | - | - | 8,808 |
| TOTAL | 243 | 2,290 | 4,813 | 7,346 | 57,884 | 27,842 | 7,691 | 3,065 | 5,026 | 3,147 | 13,040 | 860 | 4,425 | 415 | 296 | - | 73 | 2 | 51 | 14 | 123,831 | |

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:

| | |
|--|--|
| <div></div> 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. | <div></div> 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. |
| <div></div> 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. | <div></div> 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 | |

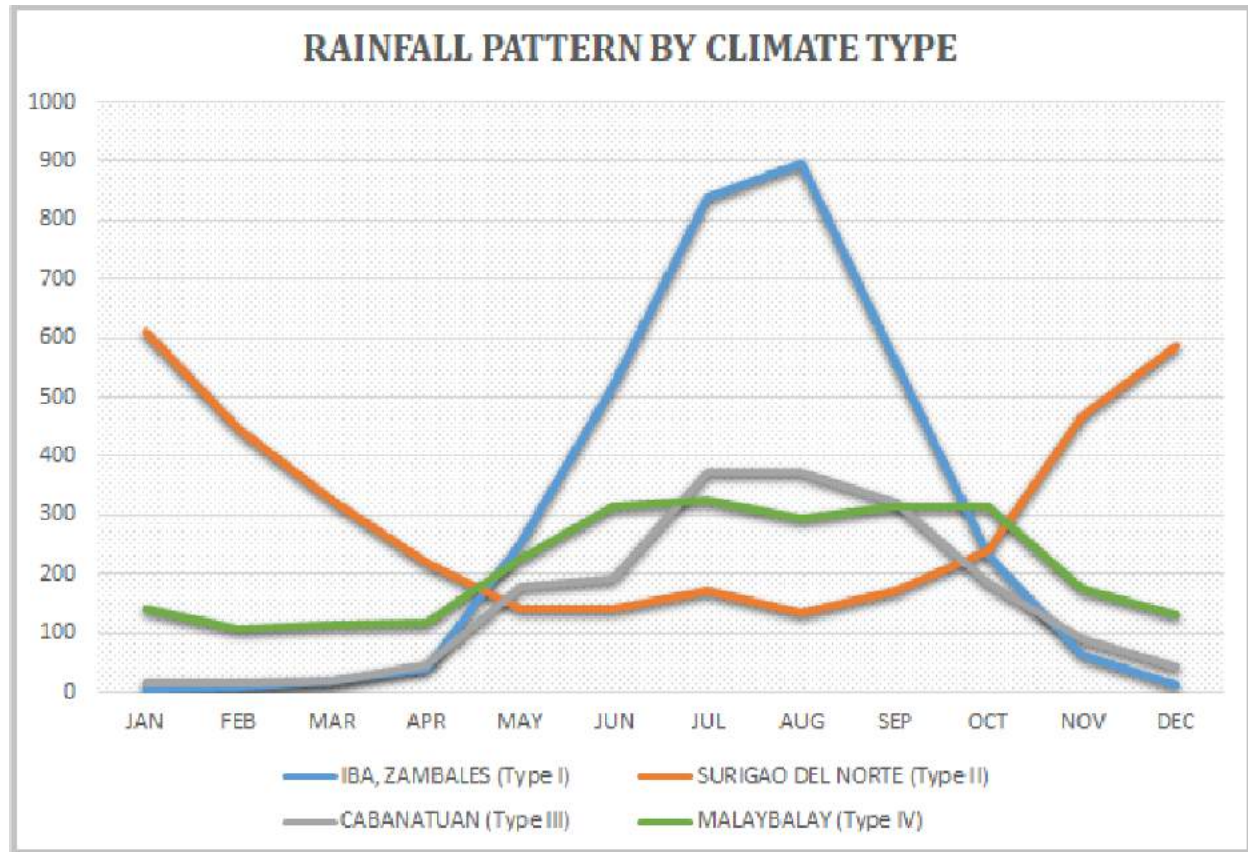
| | | | | |
|--|---|--|---|---|
| SLOPE (%) 0 - 3 - level to gently sloping 3 - 8 - gently sloping to undulating 8 - 18 - undulating to rolling 18 - 30 - rolling to moderately steep 30 - 50 - steep > 50 - very steep | SOIL DRAINAGE ED - excessively drained WD - well drained MWD - moderately well drained SPD - somewhat poorly drained PD - poorly drained VPD - very poorly drained | 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 |
| SOIL DEPTH (cm) 0 - 30 - very shallow 30 - 50 - shallow 50 - 100 - moderately deep > 100 - deep to very deep | SURFACE IMPEDIMENT ROCK OUTCROPS < 10% - none - few 10 - 30% - common > 30% - many | | | |

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

| | | | |
|--|---|---|---|
| ELEVATION EI2 - 1000m - 2000m EI3 - > 2000m | SOIL DRAINAGE D2 - Somewhat poorly drained to poorly drained D3 - Very poorly drained or excessively drained | SOIL DEPTH Sh2 - Shallow to moderately deep (30 - 100cm) Sh3 - Very shallow (< 30cm) | SOIL EROSION E2 - Moderate erosion E3 - Severe erosion |
| SLOPE/TOPOGRAPHY T2 - Undulating to moderately steep T3 - Steep to very steep | SOIL TEXTURE Tc - Coarse texture | ROCK OUTCROPS Rc2 - Common Rc3 - Many | FLOODING F2 - Moderate seasonal flooding F3 - Severe seasonal flooding |

| CODE | LIMITATION | CODE | LIMITATION | CODE | LIMITATION | CODE | LIMITATION | CODE | LIMITATION | CODE | LIMITATION |
|------|----------------|------|------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| 1 | E2-Sh2-Rc2 | 11 | F2-D2 | 21 | T2-E3-Sh2-Rc2 | 31 | T3 | 41 | T3-EI2-E3-Sh3-Rc3 | 51 | T3-EI2-E3-Rc3 |
| 2 | E3-Sh2-Rc3 | 12 | F3-D2 | 22 | T2-E3-Sh2-Rc3 | 32 | T3-E3 | 42 | T3-EI3 | 52 | T3-EI2-E3-Sh3-Rc3 |
| 3 | EI2 | 13 | Rc2 | 23 | T2-EI2 | 33 | T3-E3-Rc2 | 43 | T3-EI3-E3-Sh3-Rc2 | 53 | T3-EI3 |
| 4 | EI2-E2-Sh2-Rc3 | 14 | Sh2 | 24 | T2-EI2-E3 | 34 | T3-E3-Sh3-Rc2 | 44 | T3-EI3-E3-Sh3-Rc3 | 54 | T3-EI3-E3-Sh3-Rc3 |
| 5 | EI2-E3-Sh2-Rc3 | 15 | Sh2-Rc2 | 25 | T2-EI2-E3-Rc2 | 35 | T3-E3-Sh3-Rc3 | 45 | T3 | 55 | T3-EI3 |
| 6 | EI2-Rc2 | 16 | Sh2-Rc3 | 26 | T2-EI2-E3-Sh2-Rc2 | 36 | T3-EI2 | 46 | T3-E3 | | |
| 7 | EI2-Sh2-Rc2 | 17 | T2 | 27 | T2-EI2-E3-Sh2-Rc3 | 37 | T3-EI2-E3 | 47 | T3-E3-Rc3 | | |
| 8 | EI2-Sh2-Rc3 | 18 | T2-E3 | 28 | T2-EI3 | 38 | T3-EI2-E3-Rc2 | 48 | T3-E3-Sh3-Rc3 | | |
| 9 | EI3-Sh2-Rc2 | 19 | T2-E3-Rc2 | 29 | T2-EI3-E3-Sh2-Rc2 | 39 | T3-EI2-E3-Sh2-Rc3 | 49 | T3-EI2 | | |
| 10 | EI3-Sh2-Rc3 | 20 | T2-E3-Rc3 | 30 | T2-EI3-E3-Sh2-Rc3 | 40 | T3-EI2-E3-Sh3-Rc2 | 50 | T3-EI2-E3 | | |

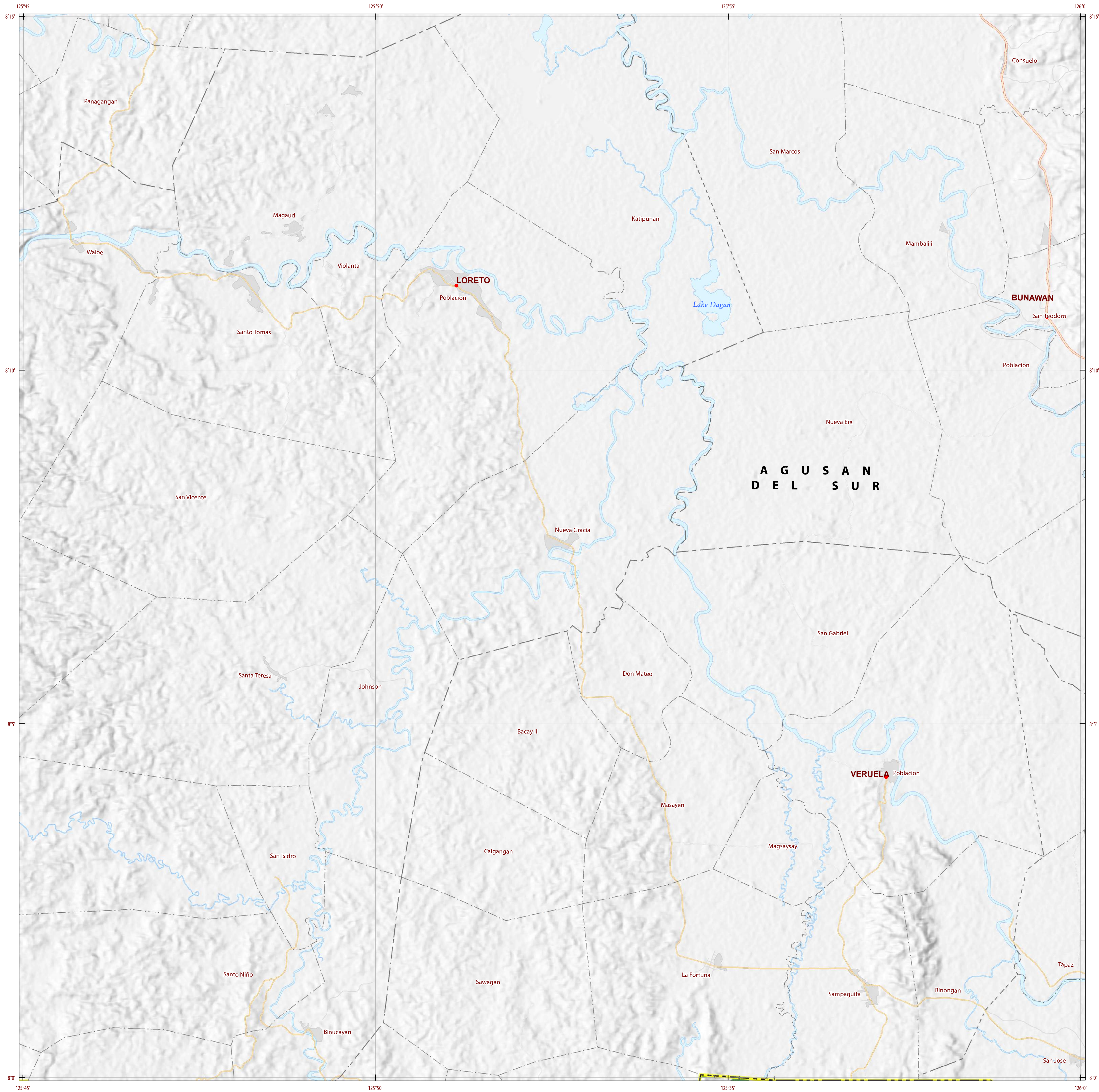
| CODE | LANDUSE | CODE | LANDUSE |
|------|--------------------|------|-------------------|
| 3 | Upland rice | 126 | Grassland |
| 4 | Corn | 127 | Pasture |
| 81 | Coffee | 134 | Shrubs, unmanaged |
| 82 | Cacao | 137 | Rubber (T) |
| 83 | Citrus, calamansi | 139 | Falcata |
| 85 | Mango | | |
| 91 | Banana | | |
| 105 | Fruit trees, mixed | | |
| 116 | Coconut | | |
| 119 | Oil palm | | |



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>>.

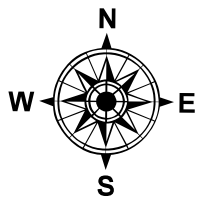
Compostela Valley is classified as climatic Type IV.

PROVINCE OF COMPOSTELA VALLEY

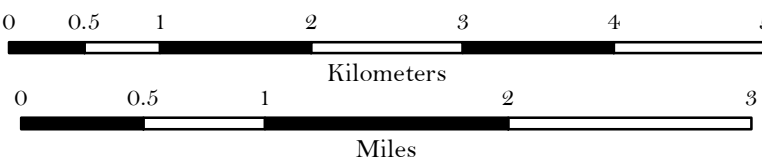


LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum
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LEGEND

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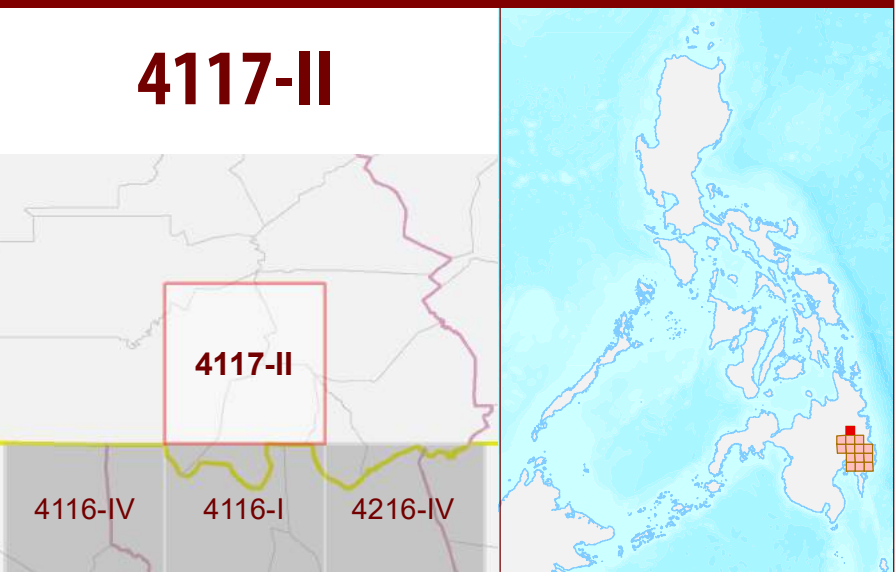
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

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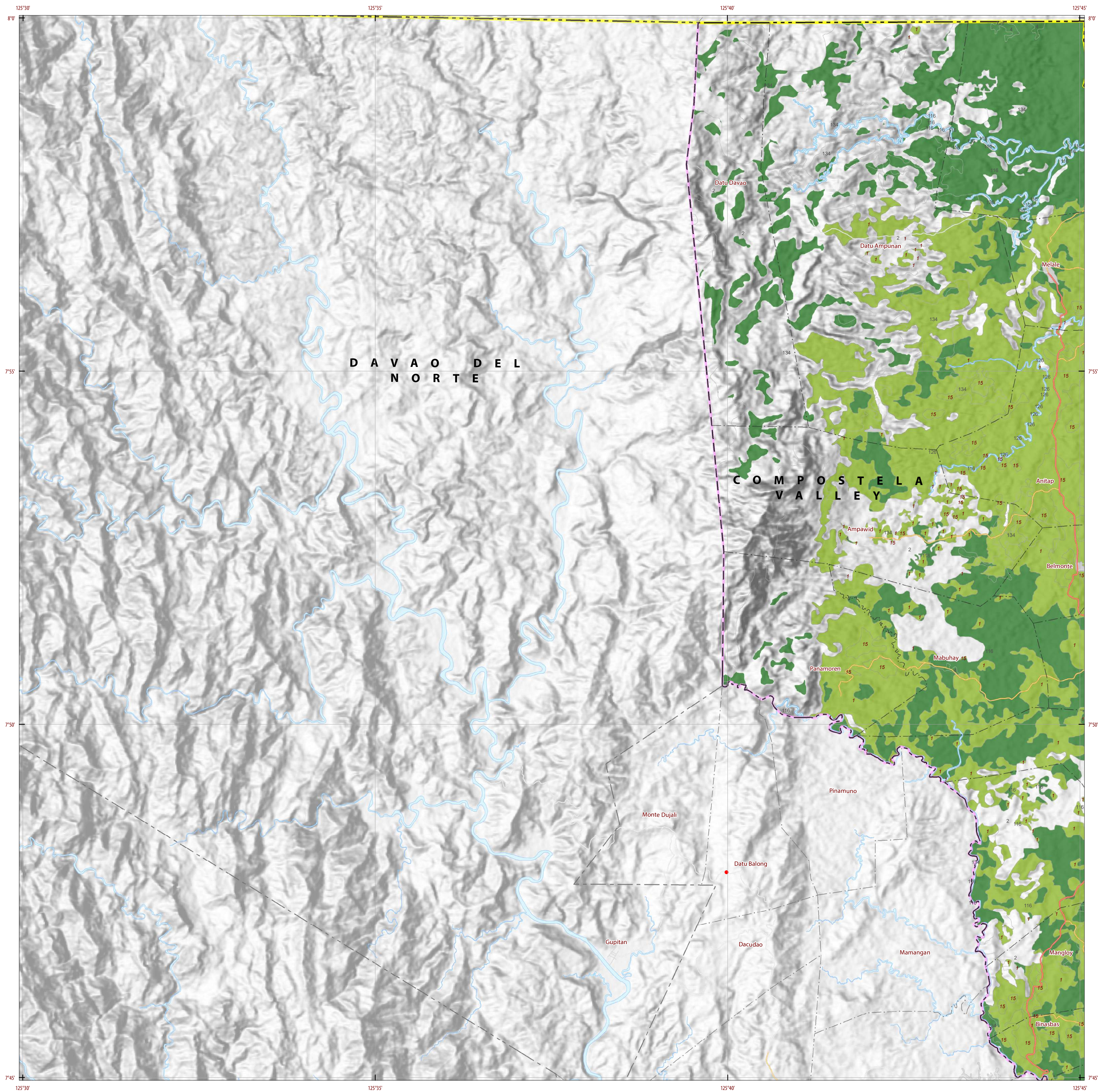
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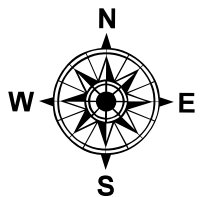
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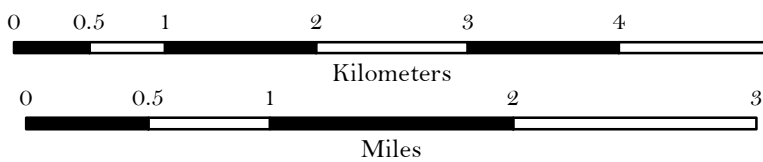


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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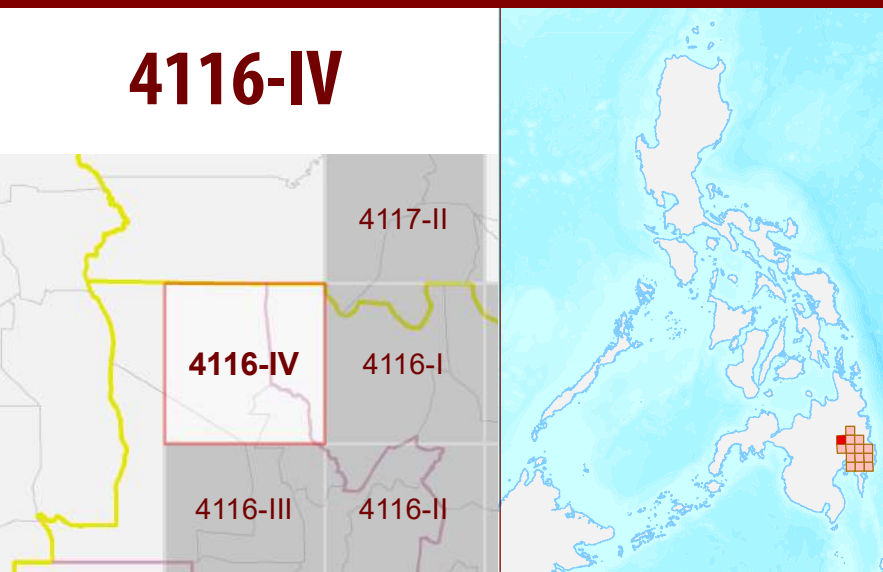
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- NGP Areas
Cacao
Land limitation
Land use

CONVENTIONAL SIGNS

- ROADS**
Expressway
Trunk line
Primary
Secondary
Tertiary
- BOUNDARY**
Region
Province
District
Municipality
Barangay
- HYDROLOGY**
Sea / Shoreline
Lakes / Rivers
- PLACES**
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- LAND USE**
Built-up
Fishpond
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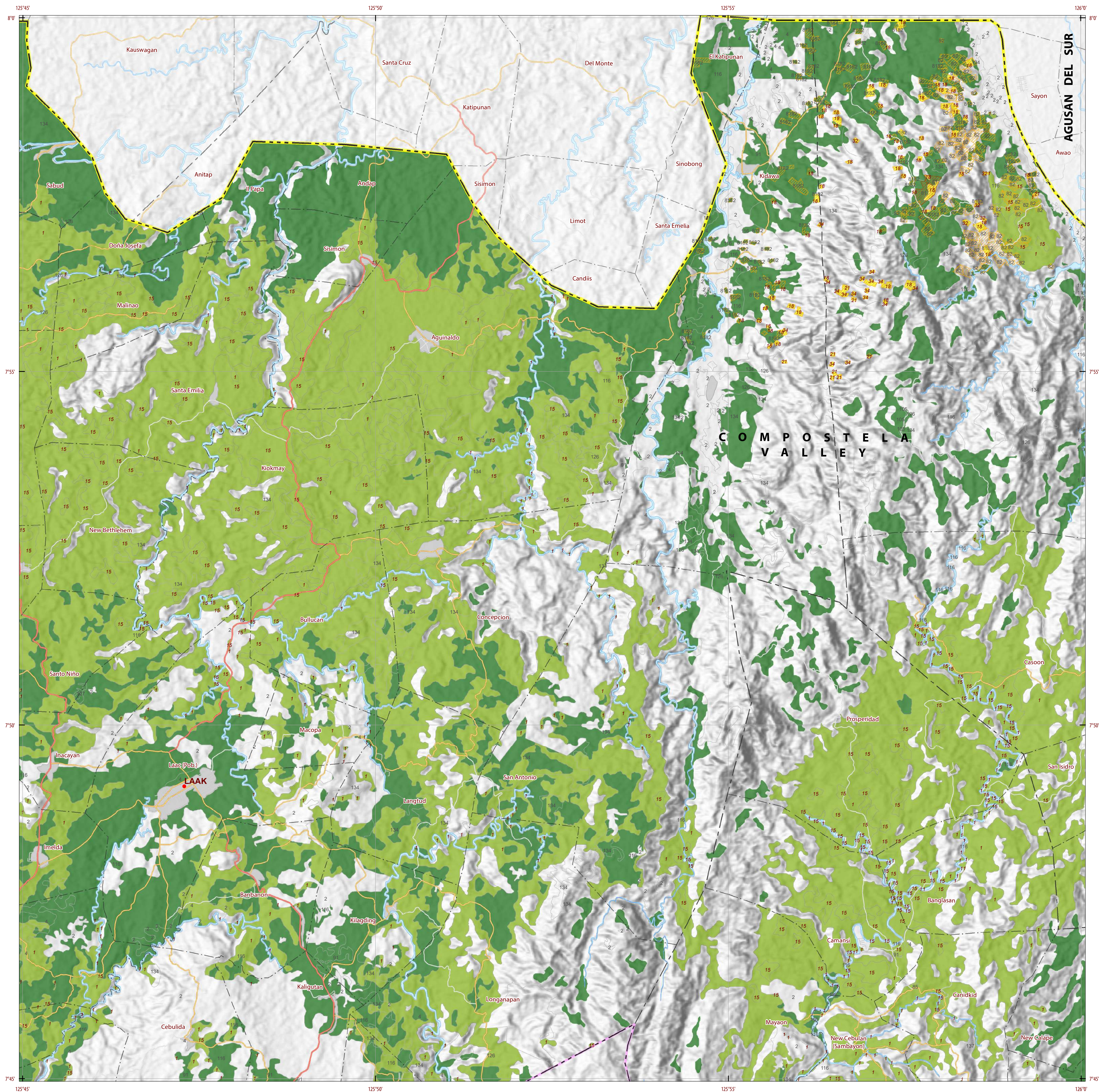
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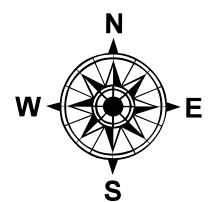
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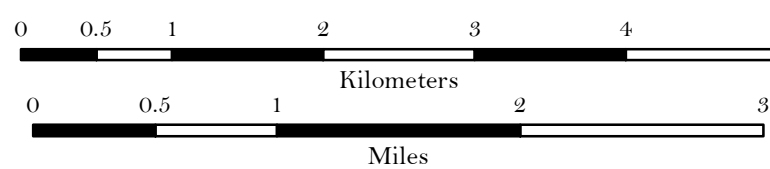


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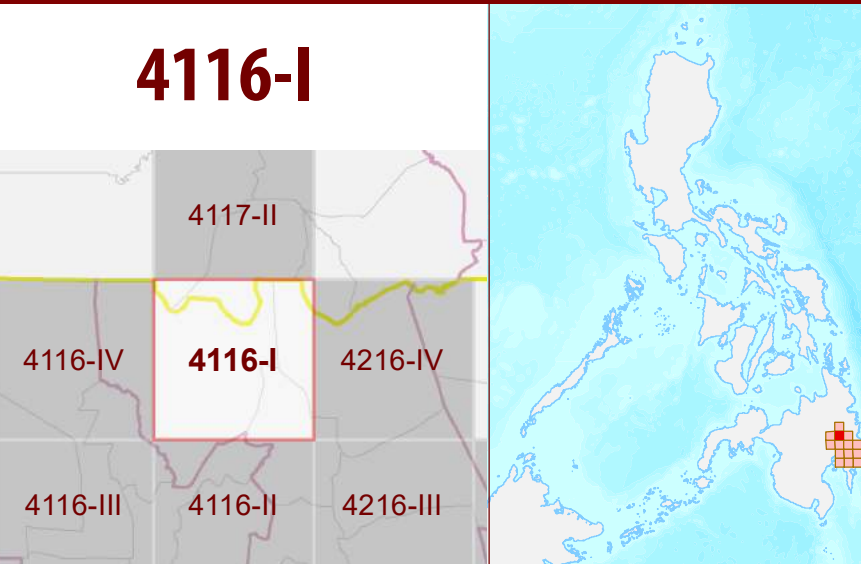
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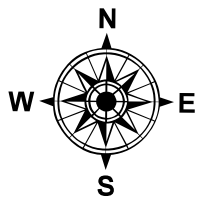
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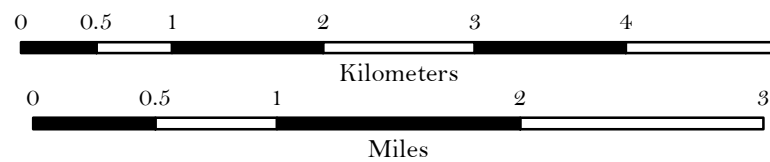


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LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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

LEGEND

SUITABILITY CLASSES

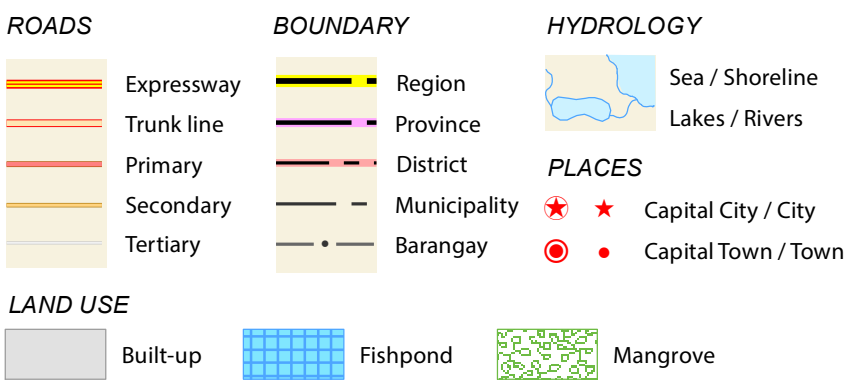
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Not Suitable/ Not Relevant

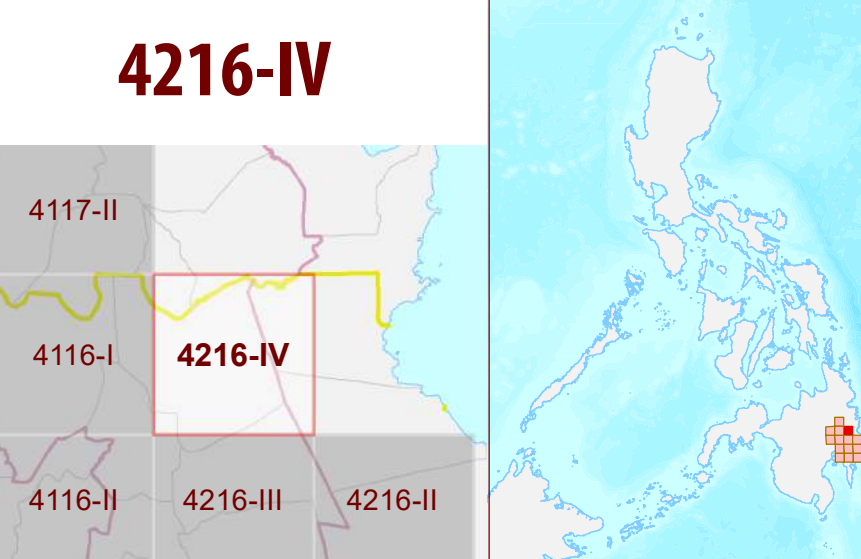
OTHER SIGNS



CONVENTIONAL SIGNS



ADJOINING SHEETS



MISCELLANEOUS INFORMATION

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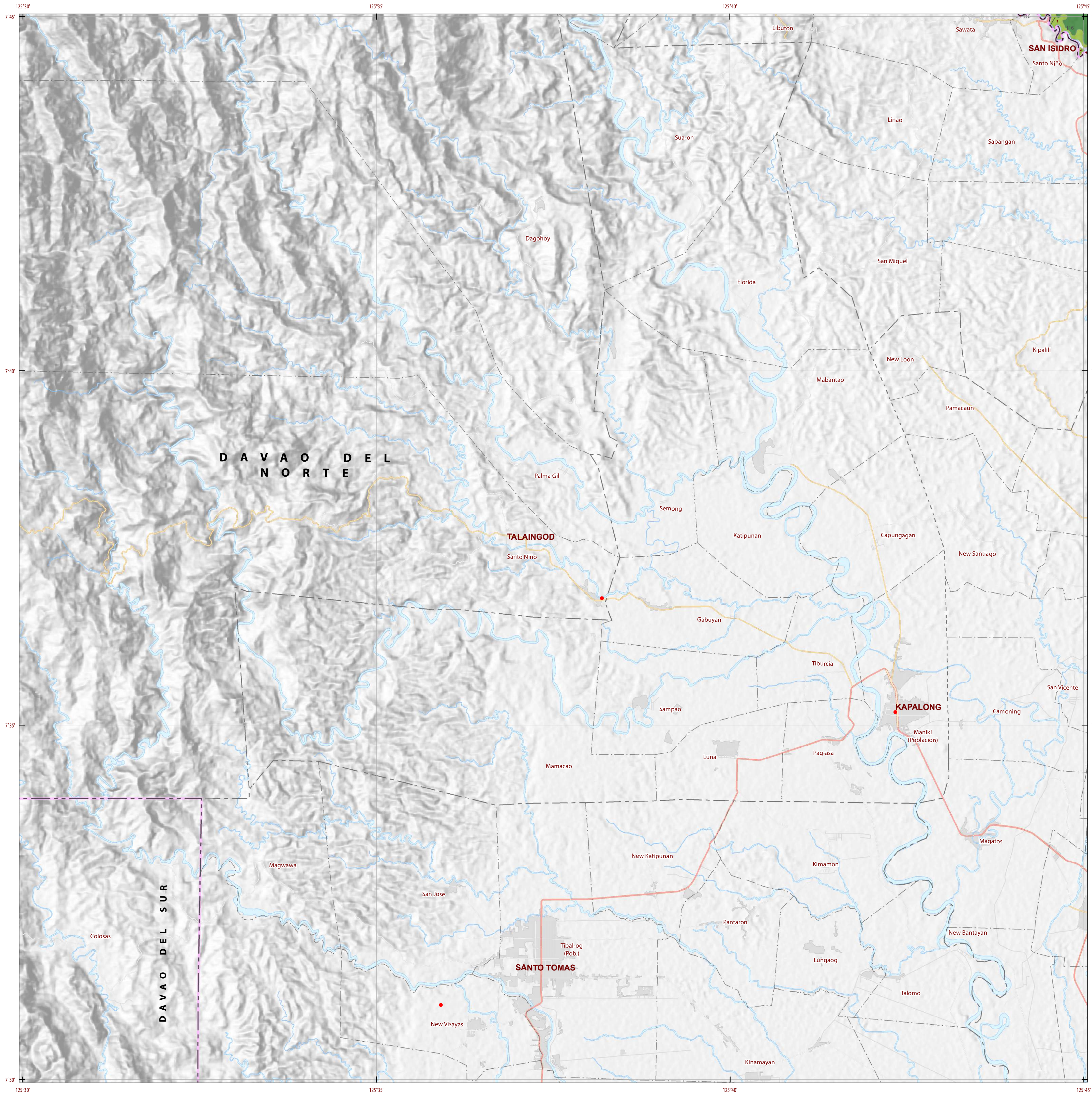
Project Leader : BERNARDO B. PASCUA
GIS and Cartography : IRVIN K. SAMALCA
Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)
: Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga)
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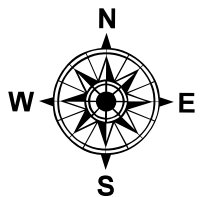
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PROVINCE OF COMPOSTELA VALLEY

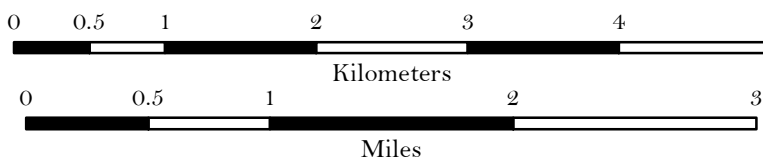


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum
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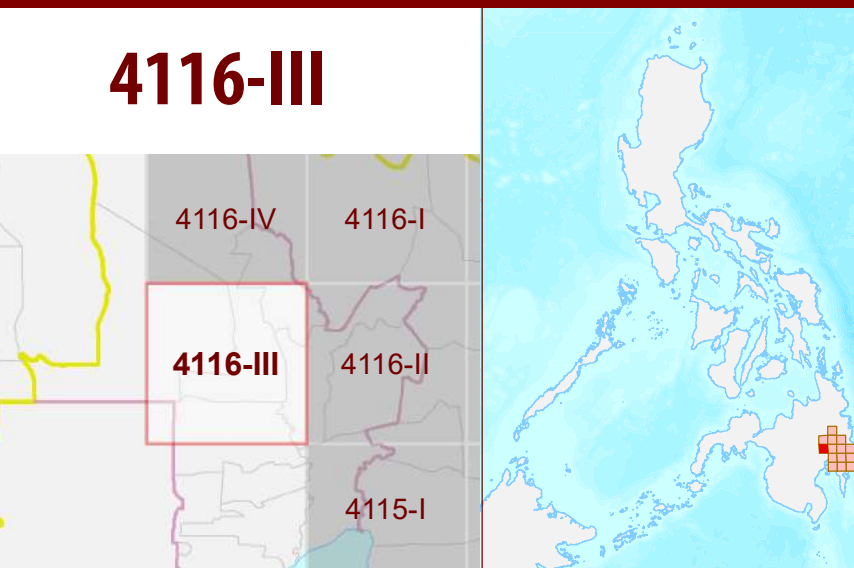
OTHER SIGNS

- 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



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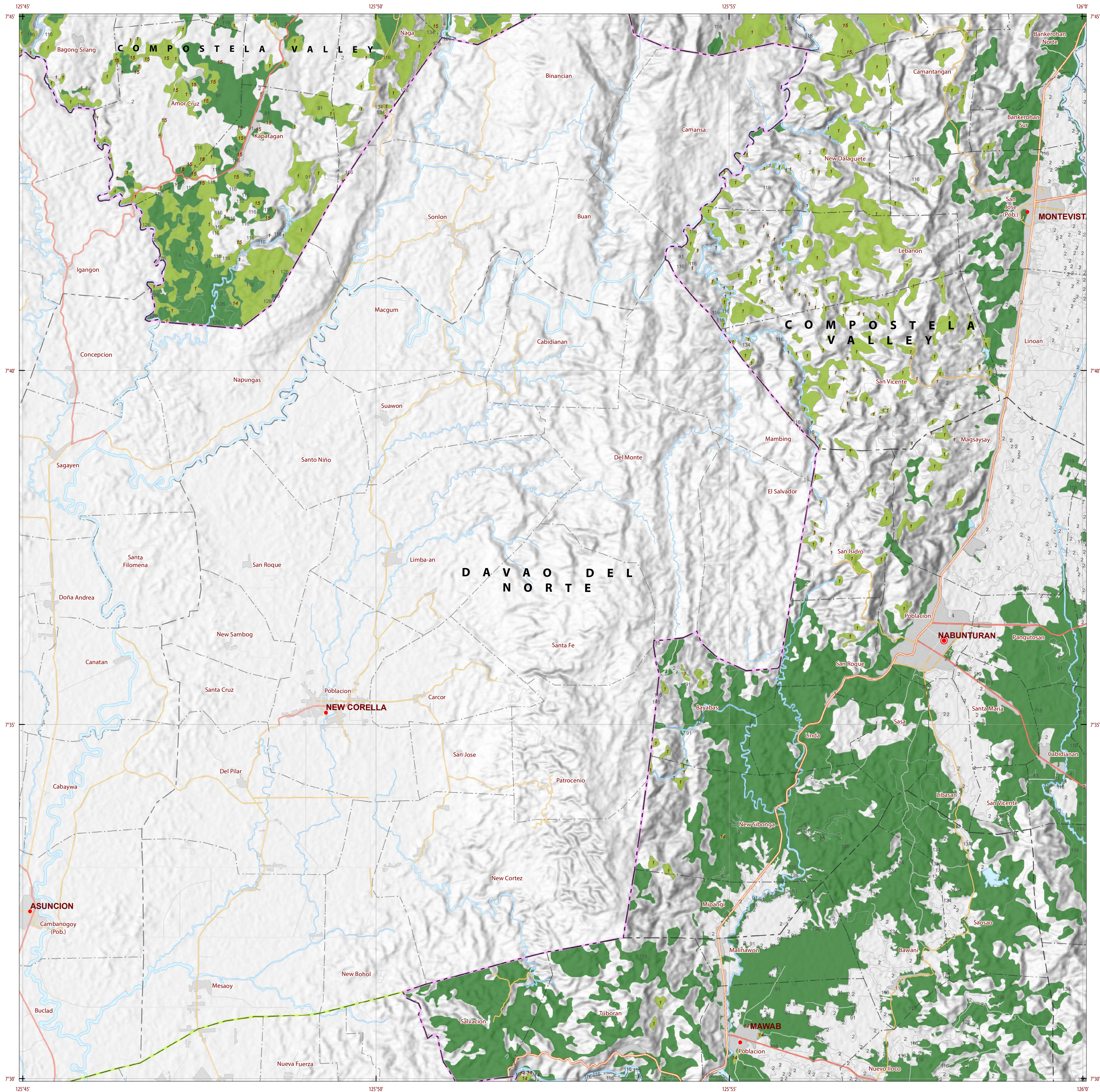
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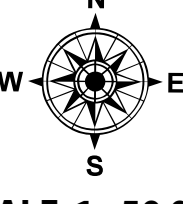
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PROVINCE OF COMPOSTELA VALLEY


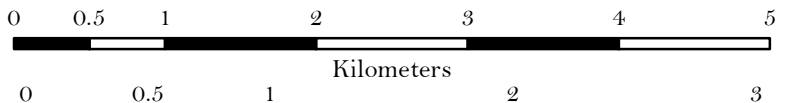




LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE
LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum
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LEGEND

SUITABILITY CLASSES

S1

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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.


S3

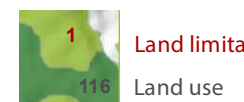
Marginally Suitable - Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.


Not Suitable/ Not Relevant

OTHER SIGNS

 NGP Areas


 Cacao


 Land limitation


 Land use


CONVENTIONAL SIGNS


ROADS

 Expressway

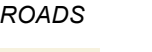
 Trunk line


 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

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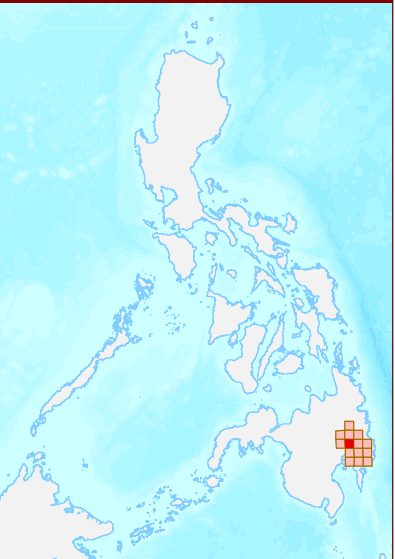
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4116-II

4216-III

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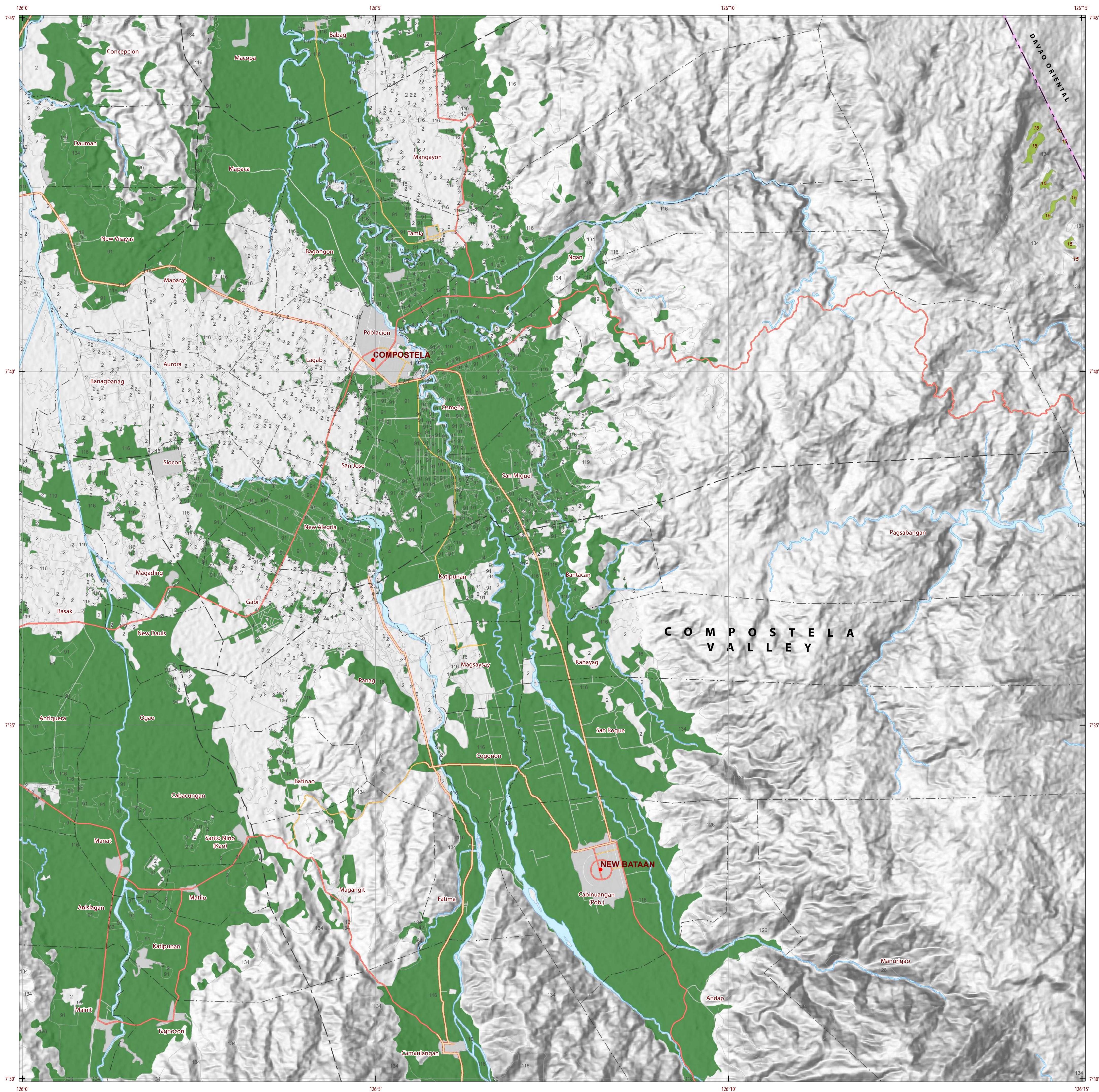
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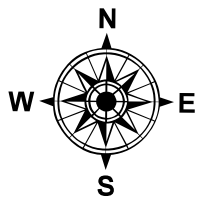
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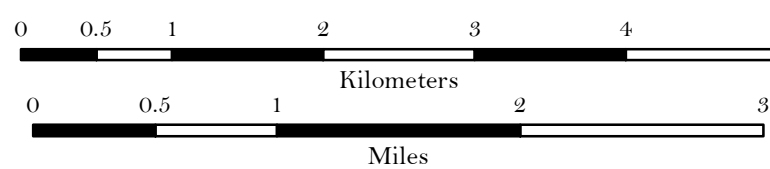


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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LEGEND

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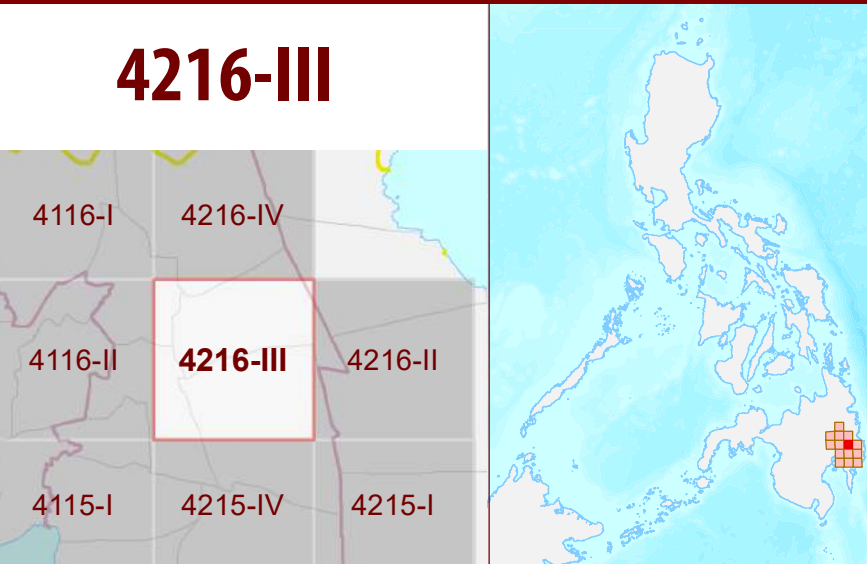
OTHER SIGNS

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Cacao
Land limitation
Land use

CONVENTIONAL SIGNS

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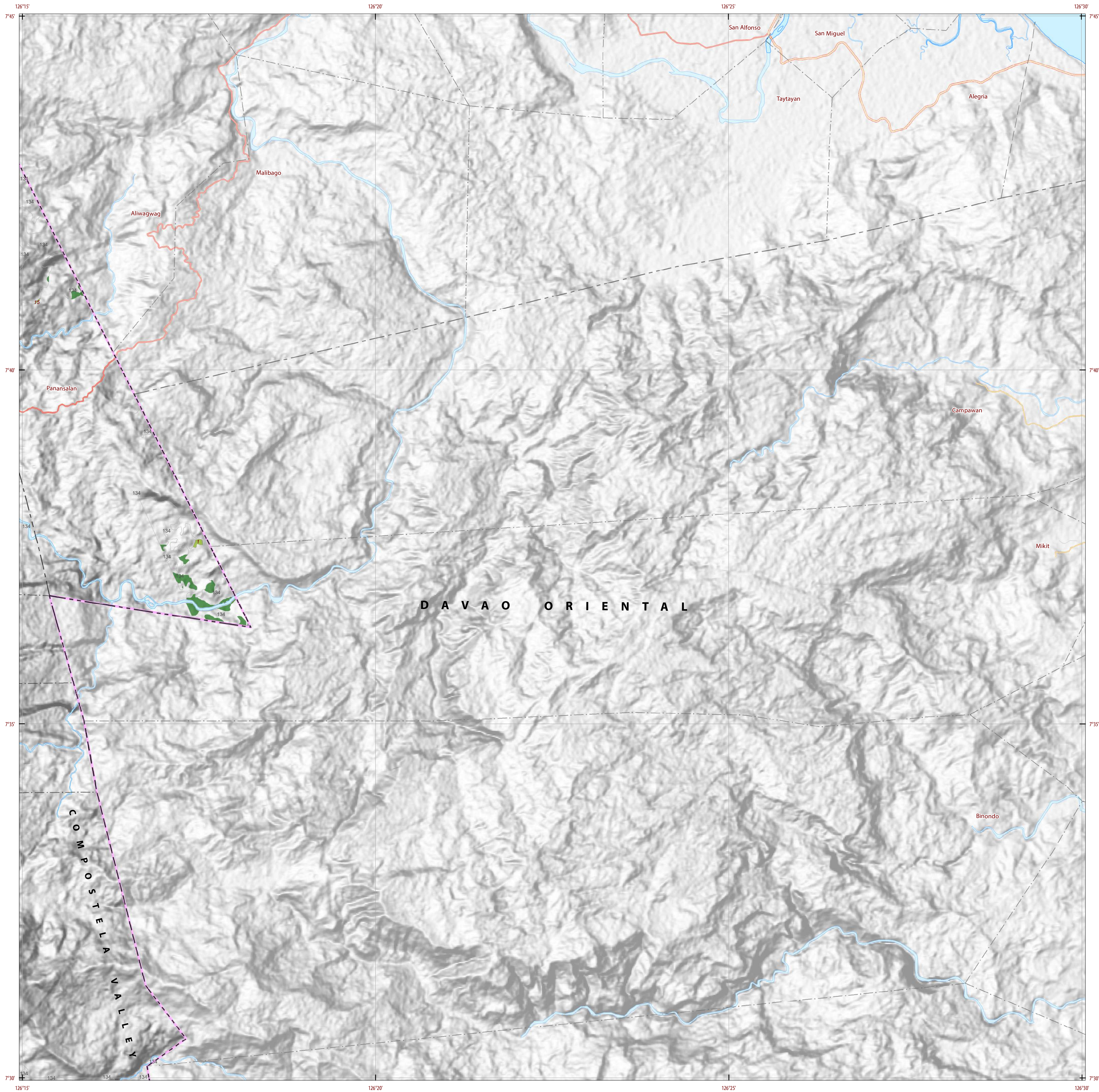
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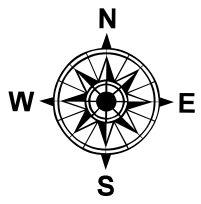
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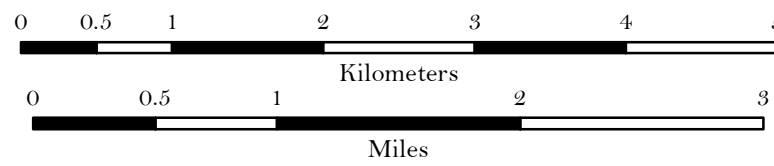


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
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LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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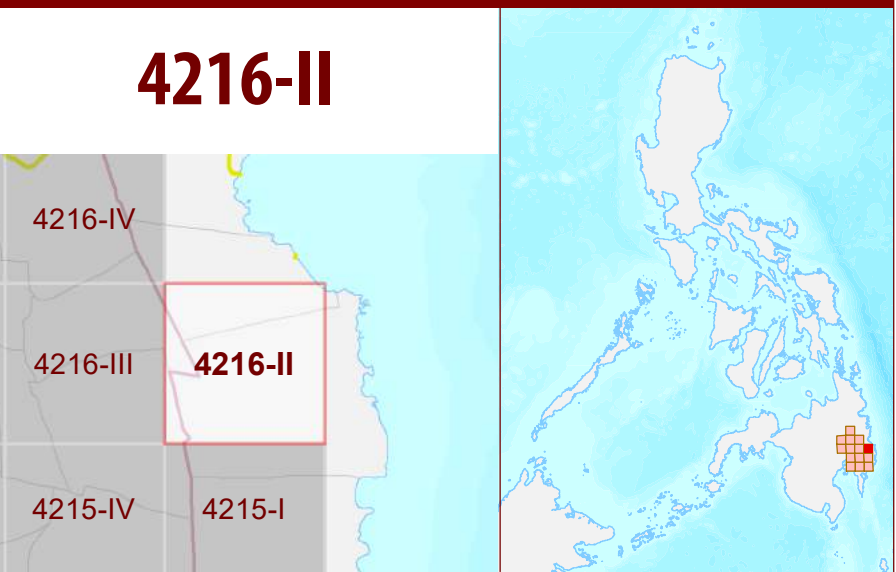
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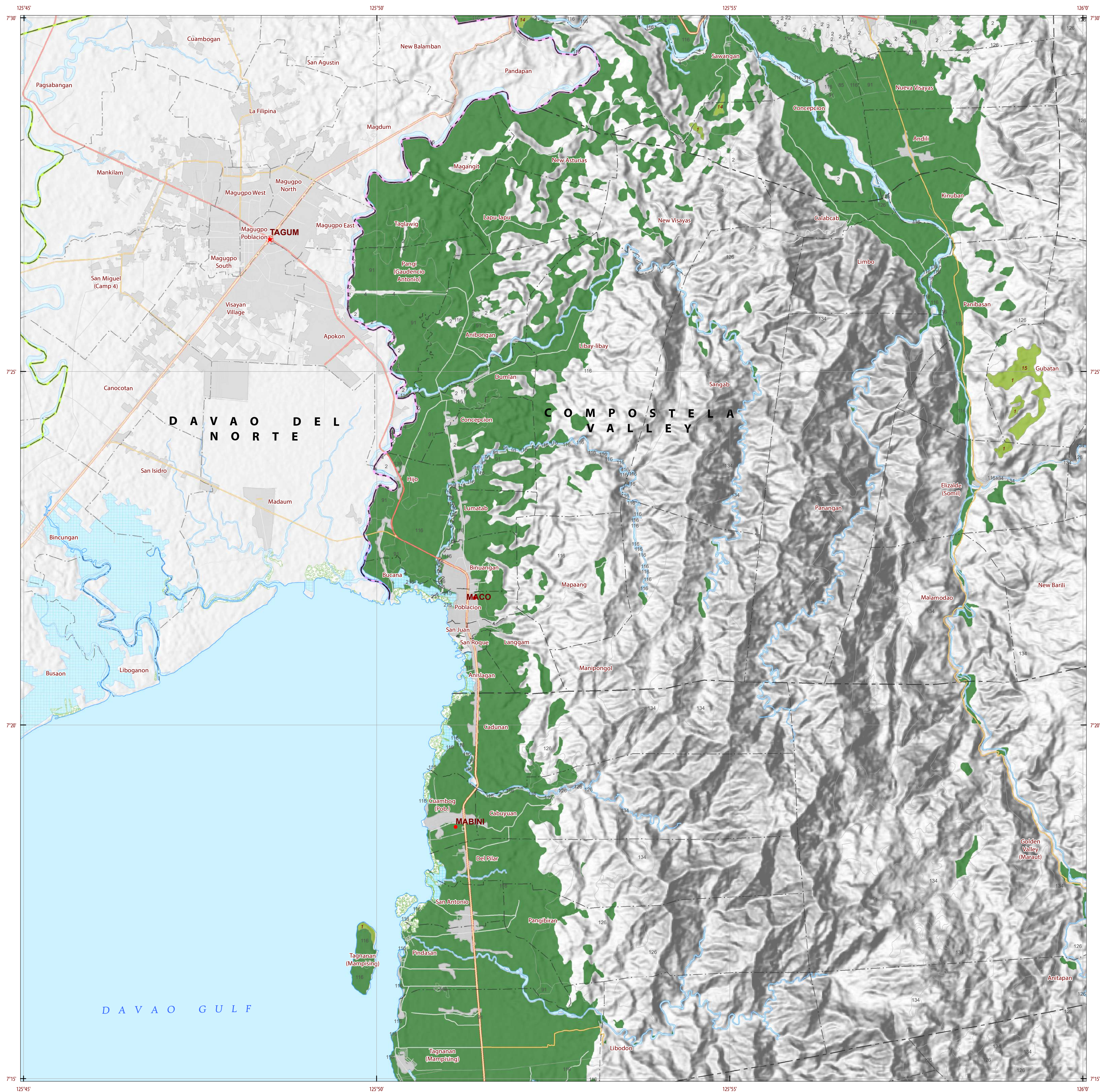
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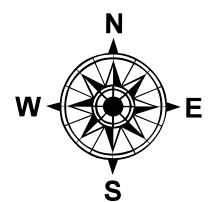
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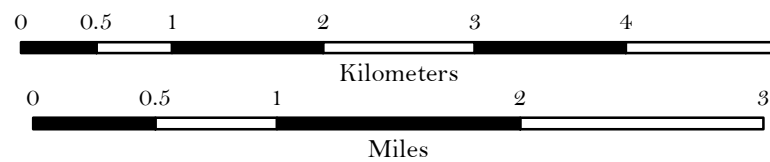


LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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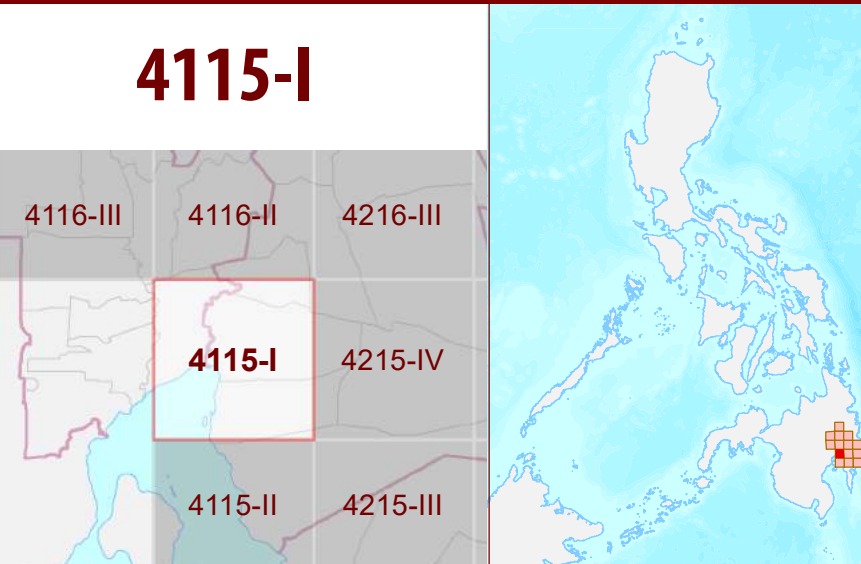
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- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**
 - Expressway
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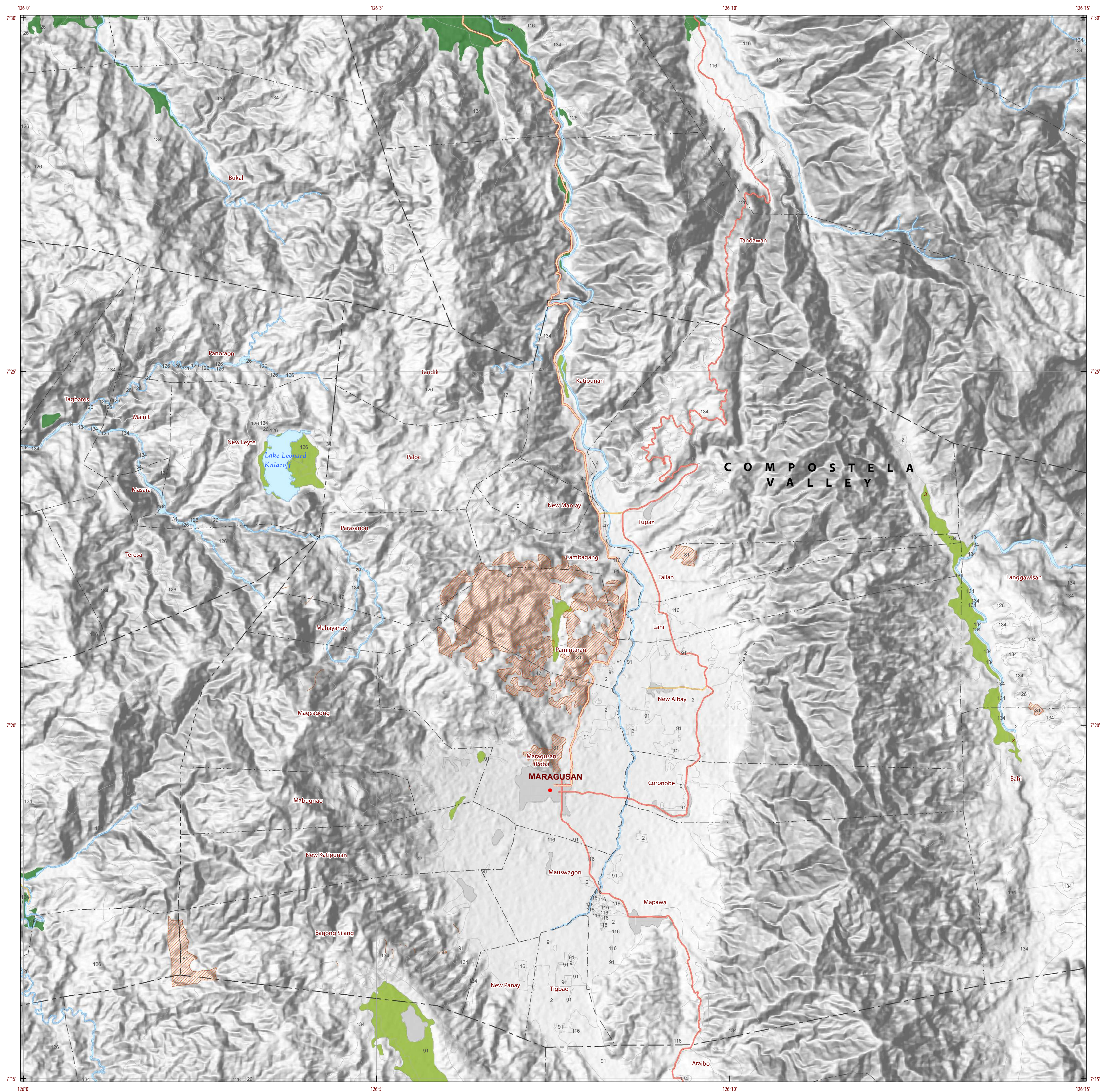
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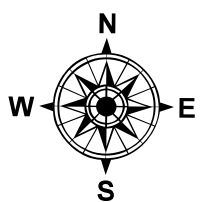
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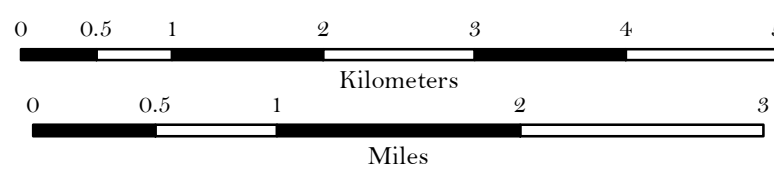


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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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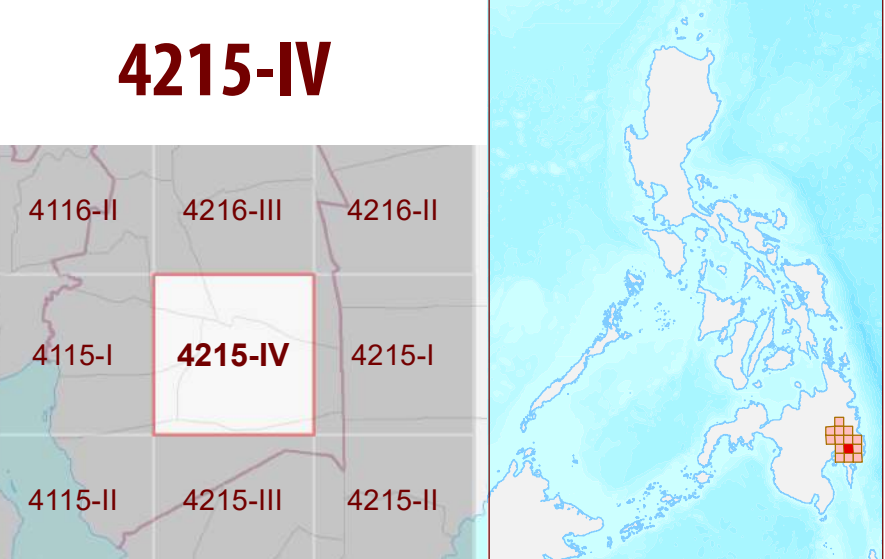
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

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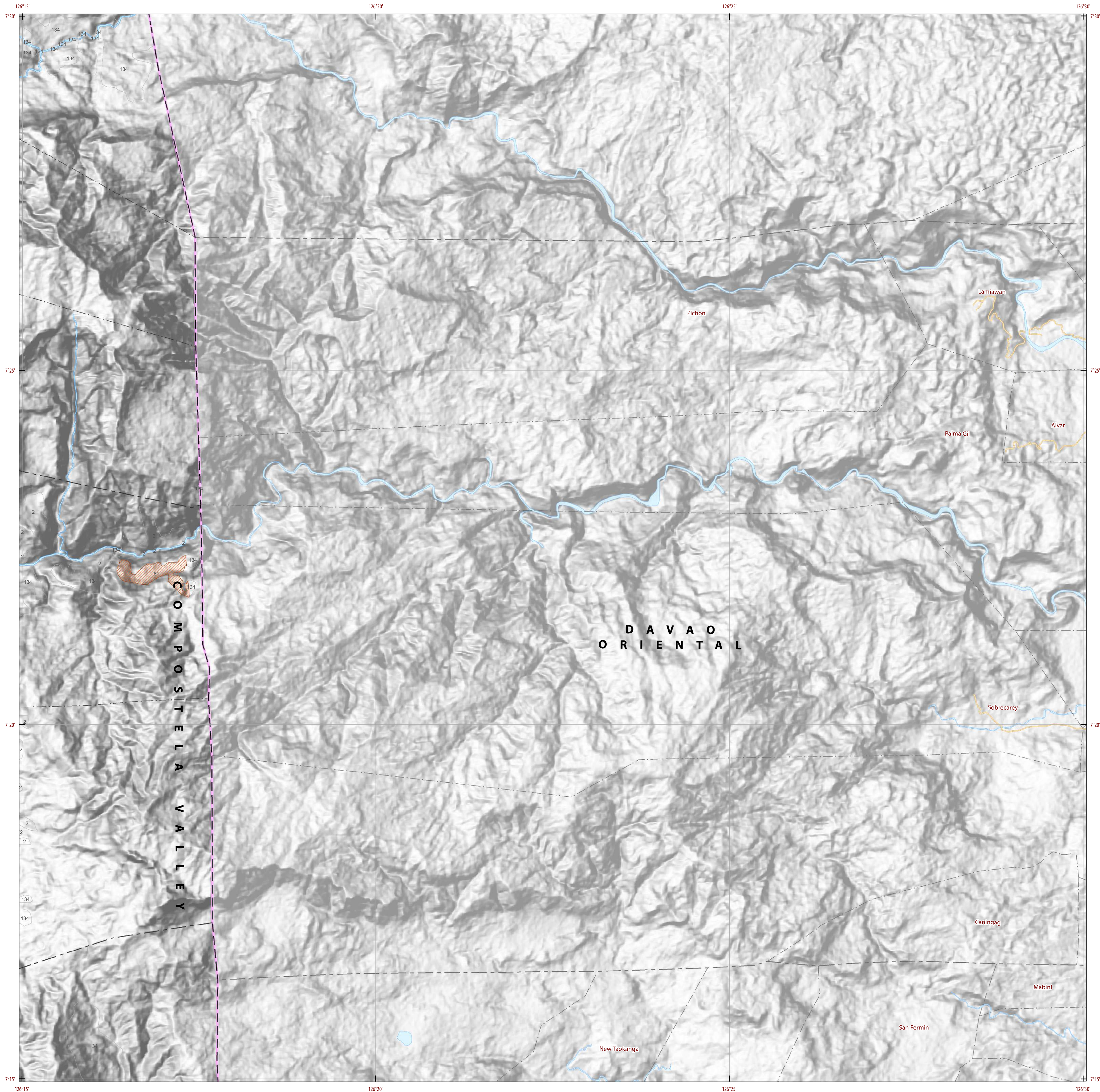
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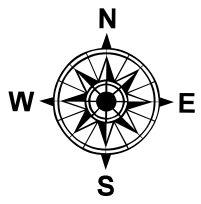
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PROVINCE OF COMPOSTELA VALLEY

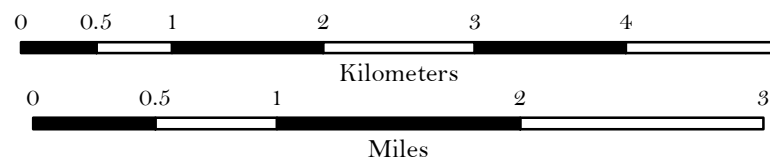


LAND SUITABILITY MAP ROBUSTA, LIBERICA AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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

LEGEND

SUITABILITY CLASSES

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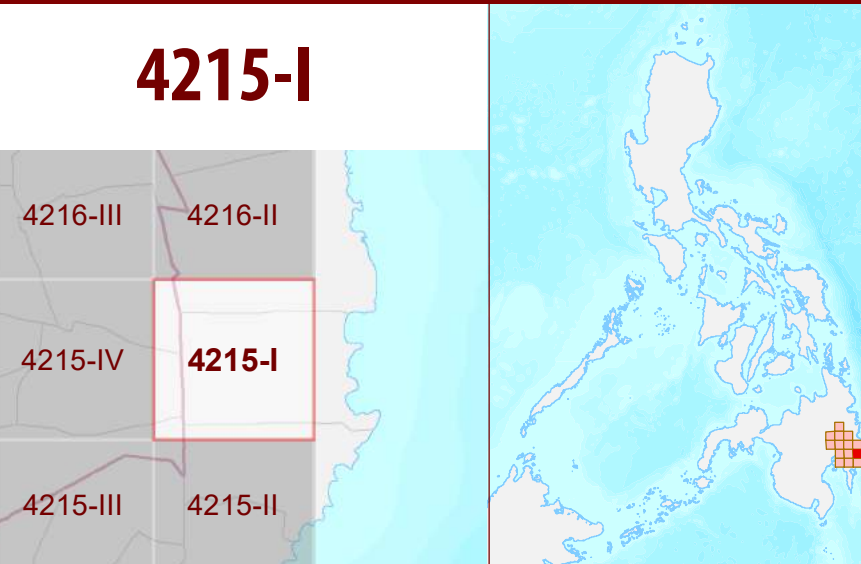
OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**
 - Expressway
 - Trunk line
 - Primary
 - Secondary
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ADJOINING SHEETS



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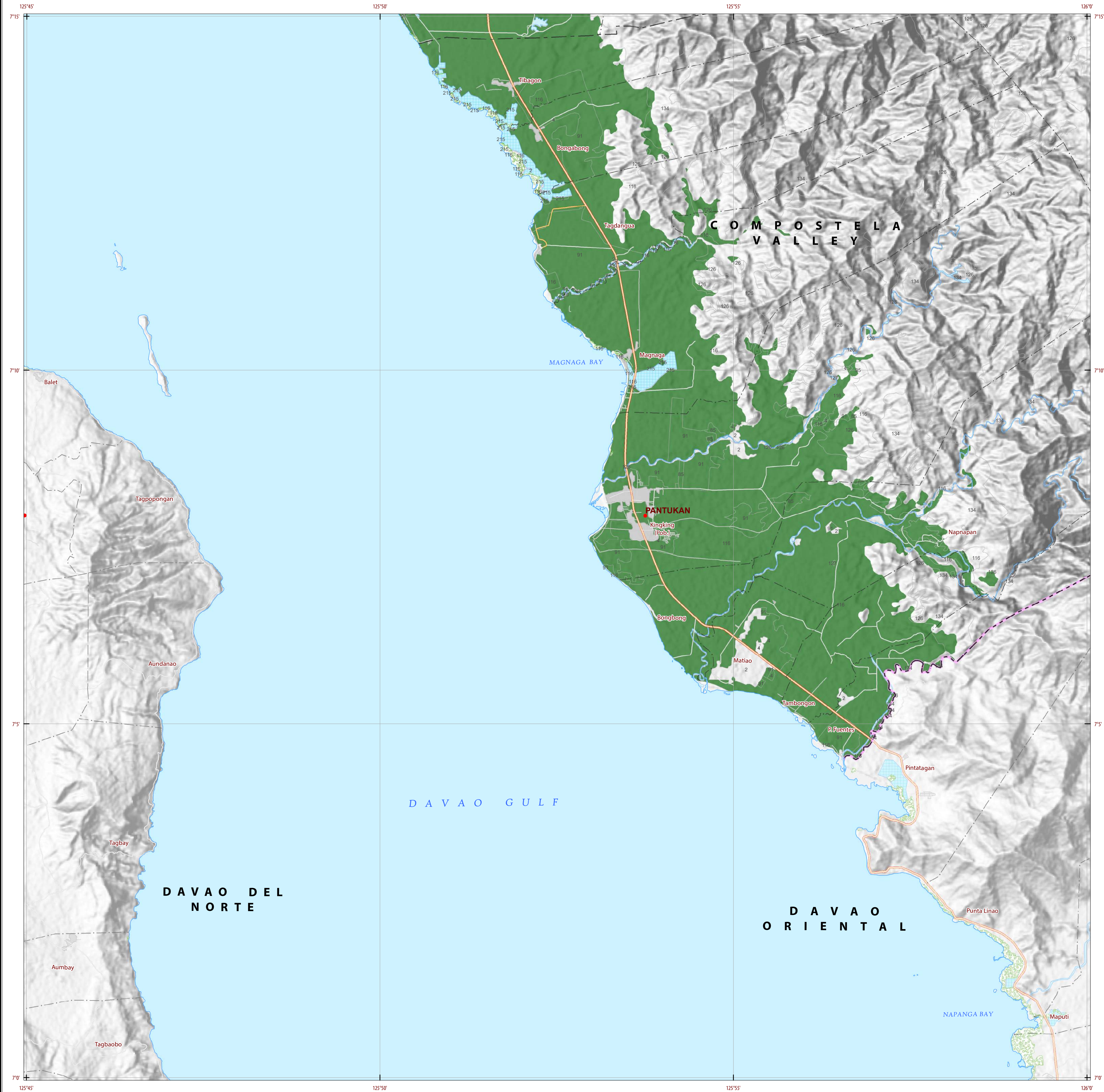
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GIS and Cartography : IRVIN K. SAMALCA
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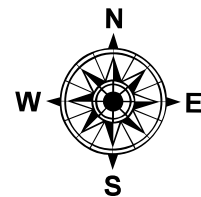
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PROVINCE OF COMPOSTELA VALLEY

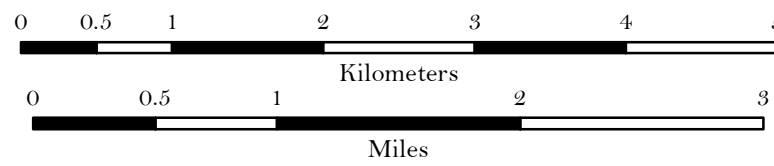


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
AND EXCELSA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum
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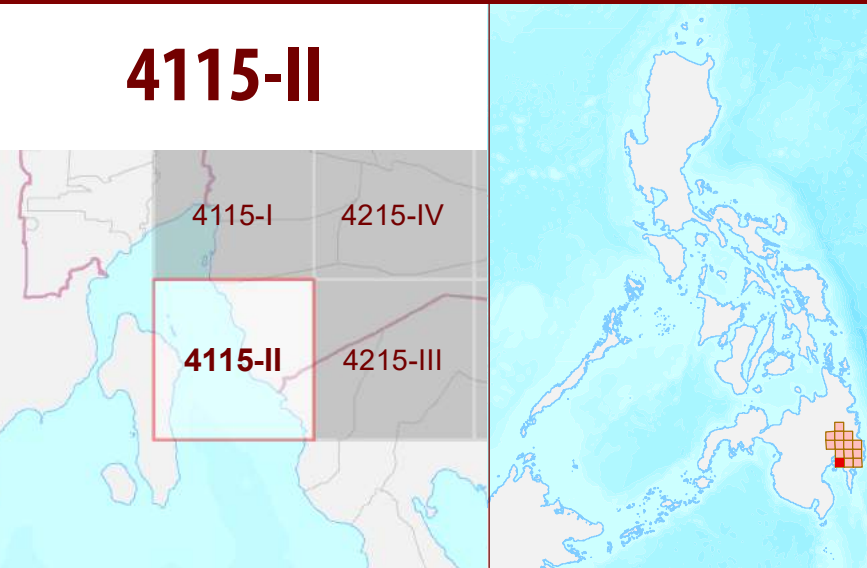
OTHER SIGNS

- NGP Areas
Cacao
Land limitation
Land use

CONVENTIONAL SIGNS

- ROADS**
Expressway
Trunk line
Primary
Secondary
Tertiary
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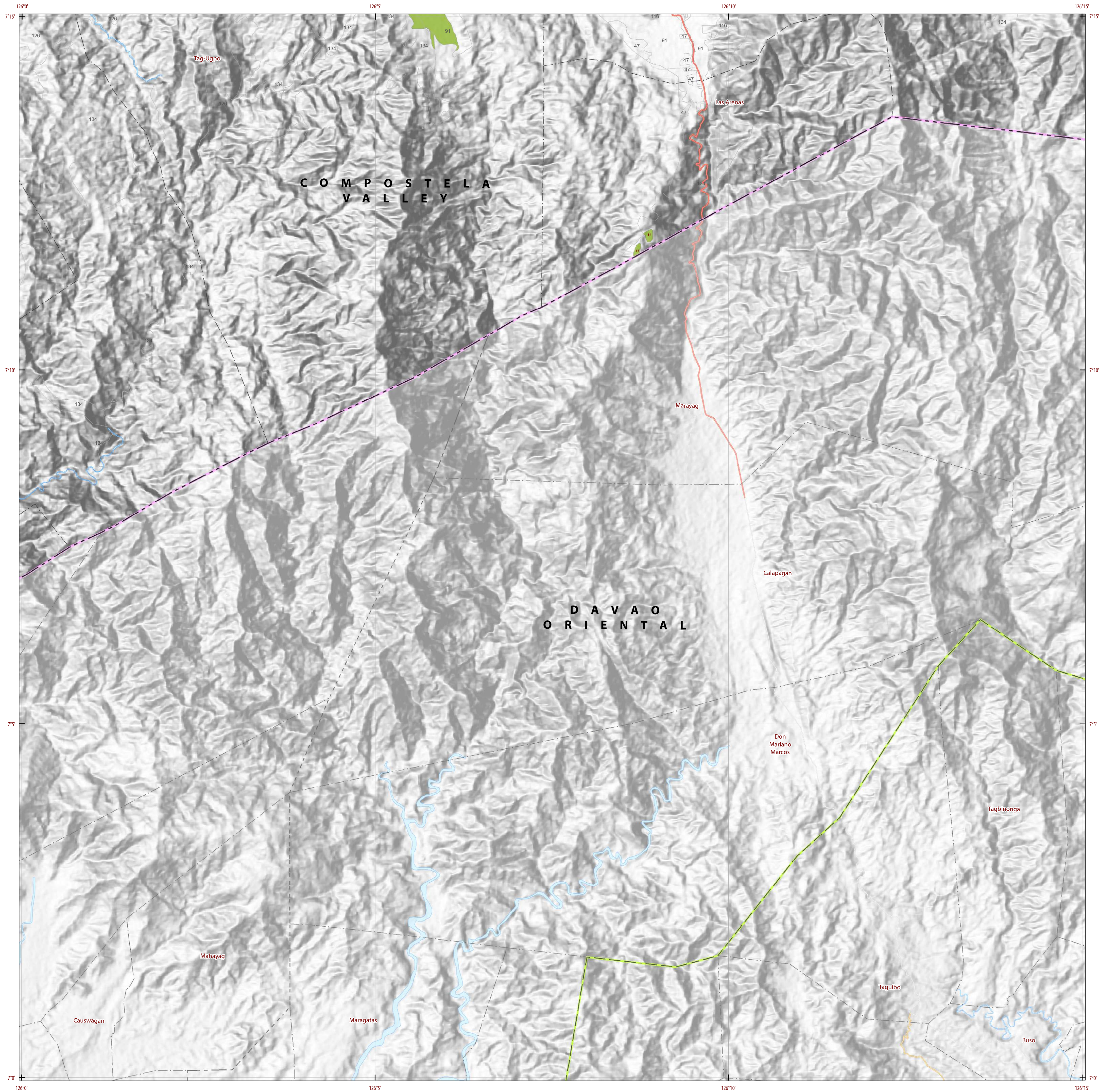
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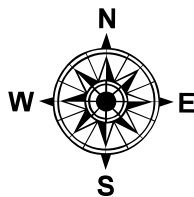
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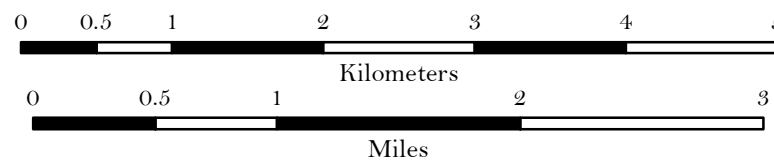


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
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LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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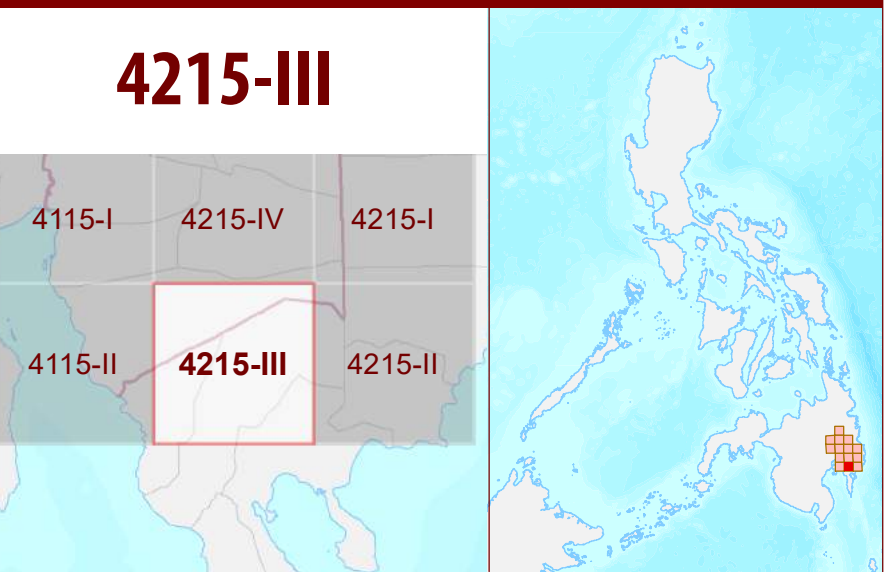
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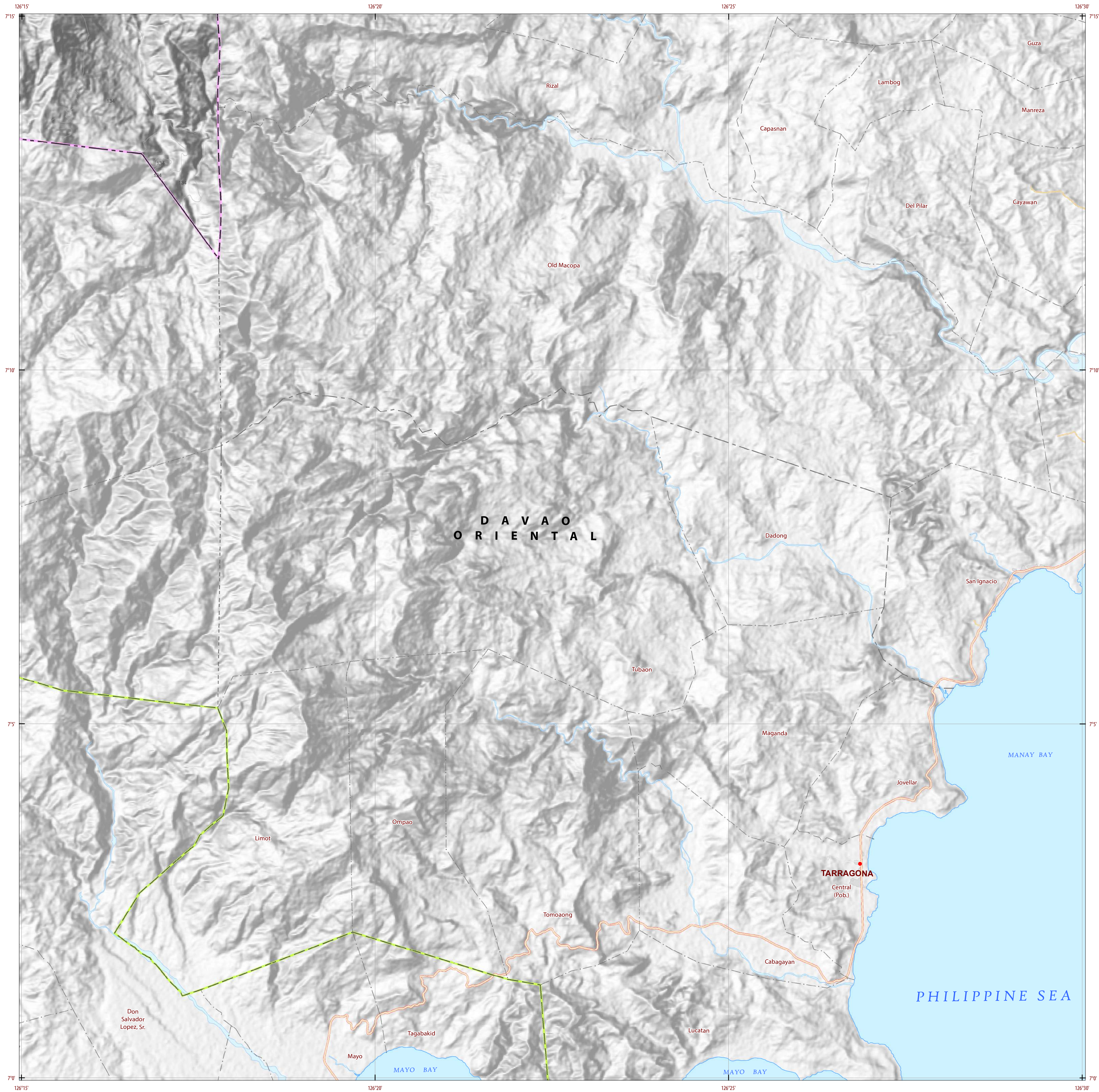
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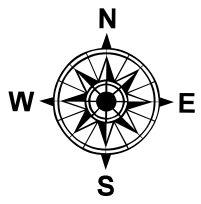
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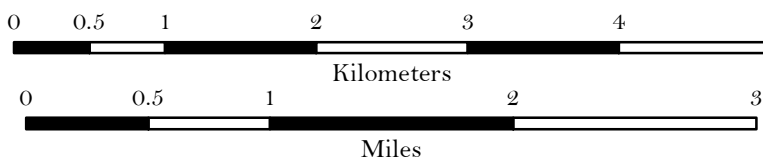


LAND SUITABILITY MAP
ROBUSTA, LIBERICA
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LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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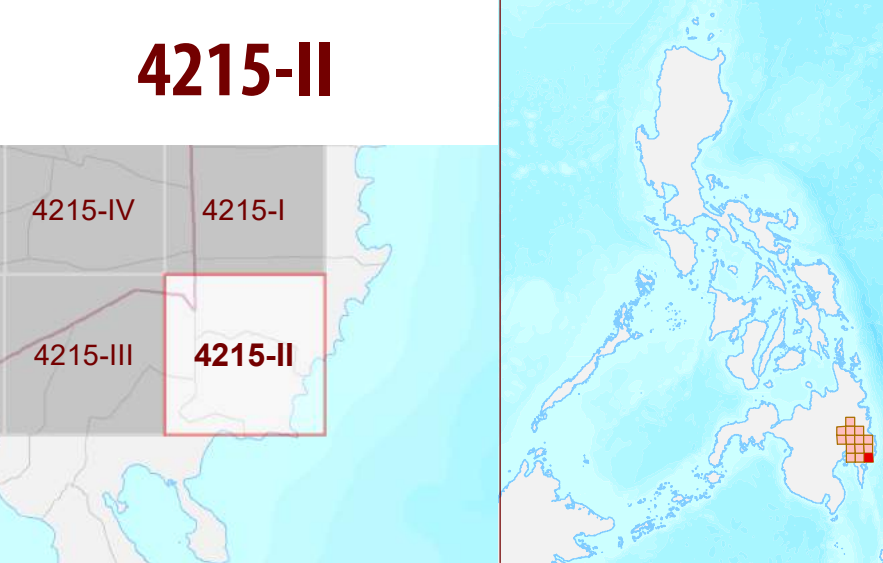
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