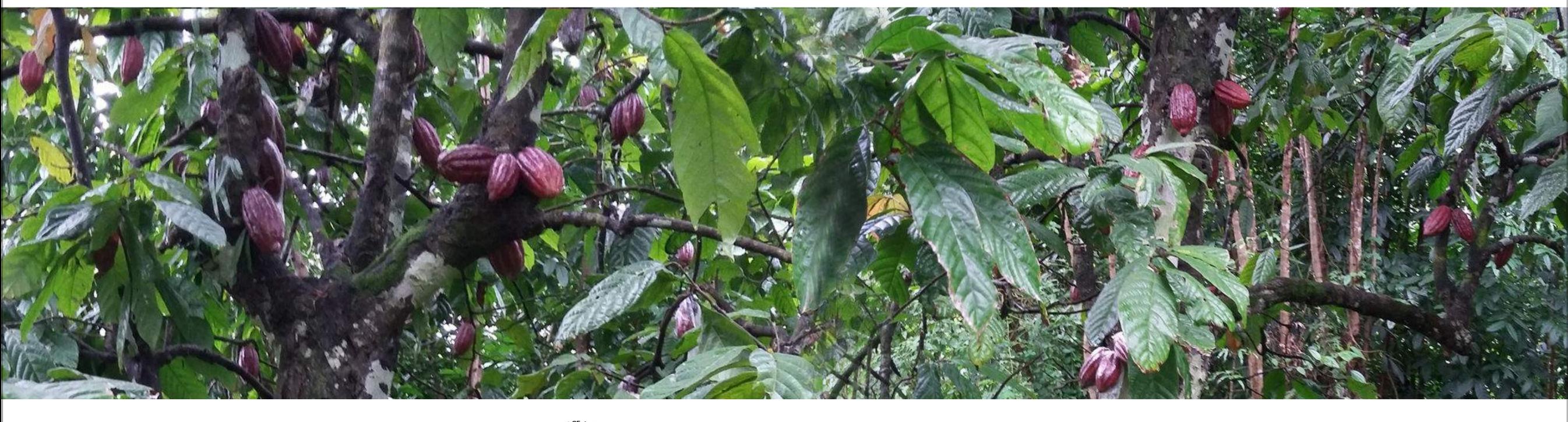


LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**







LAND SUITABILITY MAP

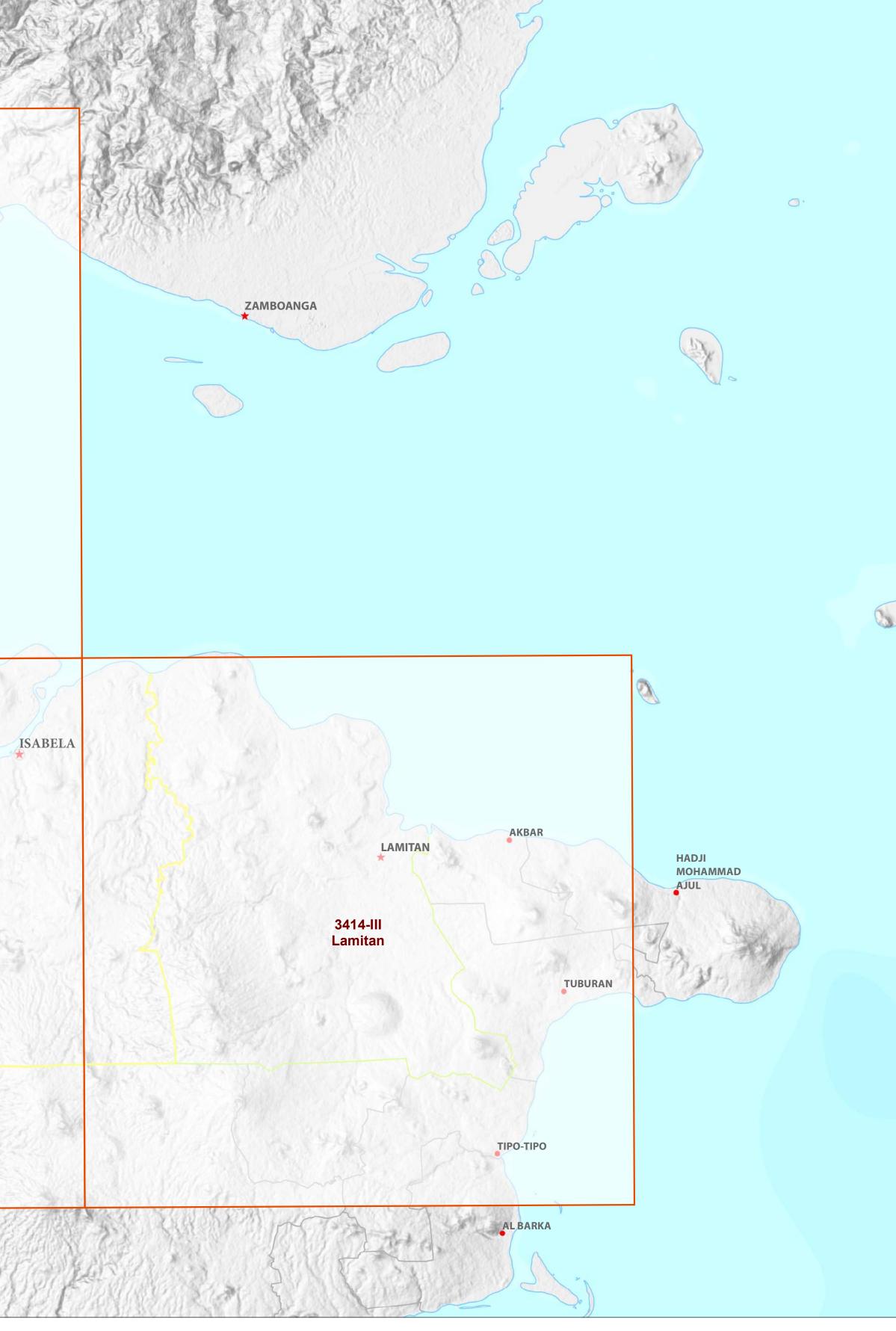
CACAO

CITY OF ISABELA



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

MAP INDEX LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **CITY OF ISABELA** ZAMBOANGA 3314-l Ayala ISABELA AKBAR LAMITAN HADJI MOHAMMAD AJUL LANTAWAN 3414-III 3314-II Lamitan Maluso TUBURAN MALUSO Agricultural Research (BAR). TIPO-TIPO **AL BARKA** Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com



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LAND SUITABILITY MAP FOR CACAO

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **CITY OF ISABELA, REGION IX**

EXTENT OF SUITABILITY FOR CACAO PRODUCTION BY MUNICIPALITY

| | MUNICIPALITY EXISTING CACAO (Ha) EXIS | | | | | | | EX | PANSION | AREA (H | a) | | | CONFLIC | CT RESOL | UTION A | REA (Ha) | | TOTAL |
|-----------------|---------------------------------------|----|------------|--------------------------------|-----------|-----------|--------------------------|-----------|--------------------------|---------|-----------|-----------|------------------------------|-----------|-------------|----------------|------------------------|--|-------|
| MUNICIPALITY | | | 0 (Ha) | TOTAL EXISTING AREA (Ha) | Coconut | | Shrubland, unmanaged* | | Grassland, unmanaged* | | Corn | | Paddy rice, non-irrigated | | Other crops | | POTENTIAL EXPANSION | | |
| | S1 | S2 | S 3 | | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | S1 | S2 | AREA (Ha) | | |
| CITY OF ISABELA | - | - | - | - | 11,428 | 958 | 195 | 24 | - | | - | - | _ | - | - | - | 12,604 | | |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| TOTAL | - | - | - | - | 11,428 | 958 | 195 | 24 | - | - | - | - | | - | - | - | 12,604 | | |

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

ACRONOMIC REQUIREMENT OF CACAO PRODUCTION

| LAND UTILIZATION TYPE | SUITABILITY RATING | SLOPE (%) | SOIL DEPTH (cm) | SOIL TEXTURE | SOIL DRAINAGE | SOIL REACTIO (pH) | N 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 | 2001-4500 | I, III, IV |
| Cacao | S2 | 8 - 30 | 50 - 100 | FSL, L, SiL | SPD,PD | 5.1 - 5.5 7.3 - 7.8 | meannm | moderate | moderate | common | 1000-1500 | 1000-2000 | I, II |
| | S3 | >30 | <50 | S, LS, CSL, SL | VPD,ED | <5.0 - > 7. | | severe | severe | many | >1500 | <1000 >4500 | |
| SLOPE (%) | | | SOIL DRAIN | AGE | | SOIL REACTI | ION (pH) | | SOIL TEXTURE | | | | |
| 0 - 3 - leve | el to gently sloping | 5 | ED - e | excessively drained | | < 4.5 - e | extremely acid | | Coarse | | Fi | ine | |
| 3 - 8 - gent | tly sloping to undu | ulating | WD - v | well drained | | 4.5 - 5.0 - v | very strongly acid | | S - sand | 1 | SC | - sandy | clay |
| 8 - 18 - und | ulating to rolling | | MWD - r | noderately well drained | 1 | 5.1 - 5.5 - s | trongly acid | | LS - loan | ny sand | Si | C - silty cl | ay |
| 18 - 30 - rolli | ing to moderately | steep | SPD - s | somewhat poorly draine | ed | 5.6 - 6.0 - n | nedium acid | | CSL - coar | rse sandy loam | С | - clay | |
| 30 - 50 - stee | p | | PD - I | poorly drained | | 6.1 - 6.5 - s | lightly acid | | SL - sand | ly loam | H | C - heavy | clay |
| > 50 - very | y steep | | VPD - v | very poorly drained | | 6.6 - 7.2 - n | neutral | | Medium | | | | |
| | | | | | | 7.3 - 7.8 - n | nildly alkaline | | FSL - fine | sandy loam | | | |
| SOIL DEPTH (cr | m) | | SURFACE IM | PEDIMENT | | 7.9 - 8.4 - n | noderately alkaline | | L - loan | n | | | |
| 0-30 - very | y shallow | | ROCK OUTCR | OPS | | > 8.5 - s | trongly alkaline | | SiL - silt l | oam | | | |
| 30 - 50 - shal | • | | | none - few | | | | | | loam | | | |
| 50 - 100 - mod | derately deep | | 10 - 30% - 0 | common | | | | | • | clay loam | | | |
| > 100 - deep | p to very deep | | > 30% - r | nany | | | | | | ly clay loam | | | |
| LAND LIN | TATIONS | S DESCRIP | TION AN | D COMBINAT | IONS | | | | | | | | |
| ELEVATION | | | SOIL DRAIN | | | | SOIL DEPTH | | 9 | SOIL EROSION | | | |
| El2 - 1000m - | | | D2 - Som | ewhat poorly drained t | o poorly drained | l | | eep (50 - 100cm | | E2 - Moderate | erosion | | |
| El3 - > 1500m | l | | D3 - Very | v poorly drained or exce | essively drained | | Sh3 - Very shallow | to shallow (< 50 | cm) I | E3 - Severe ero | osion | | |
| SLOPE/TOPOGI | | | SOIL TEXT | | | | ROCK OUTCROPS | | | FLOODING | | | |
| T7 Undulation | ng to moderately s | steep | Tc - Coar | rse texture | | | Rc2 - Common | | | | seasonal flooding | | |
| | verv steep | | | | | | Rc3 - Many | | I | - Severe sea | sonal flooding | | |
| | · j p | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| T3 - Steep to v | | DE LIMITA | TION | CODE LA | ANDUSE | | | | | | | | |
| T3 - Steep to v | ITATION CO | DE LIMITA 1 T2-E3-Sh2-I | | CODELa85Mango | ANDUSE | | | | | | | | |
| T3 - Steep to v | ITATION CO Rc2 1 | | Rc3 | | ANDUSE | | | | | | | | |
| T3 - Steep to v CODE LIMI 1 E2-Sh2-F | ITATION CO Rc2 1 1 | 1 T2-E3-Sh2-I | Rc3 Sh2-Rc2 | 85 Mango | | | | | | | | | |
| T3 - Steep to v CODE LIMI 1 E2-Sh2-F 2 E12 | ITATION CO Rc2 1 h2-Rc3 1 | 1 T2-E3-Sh2-I 2 T2-El2-E3-S | Rc3 Sh2-Rc2 | 85 Mango 116 Coconut | | | | | | | | | |
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SUITABILITY CLASSES:



Highly Suitable (S1) Land having no significant limitation to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

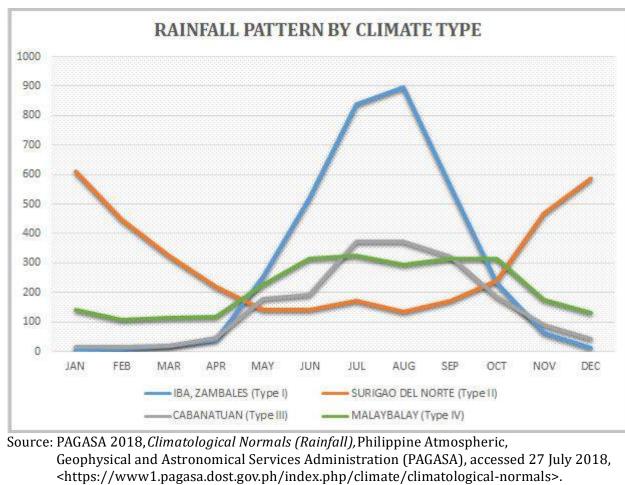
Moderately Suitable (S2)

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

CLIMATE TYPE

- **TYPE I** : Two pronouced season, dry from November to April and **TYPE II** : No dry season with a very pronounced maximum rain wet during the rest of the year. Maximum rain period is from June to September
- **TYPE III**: No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

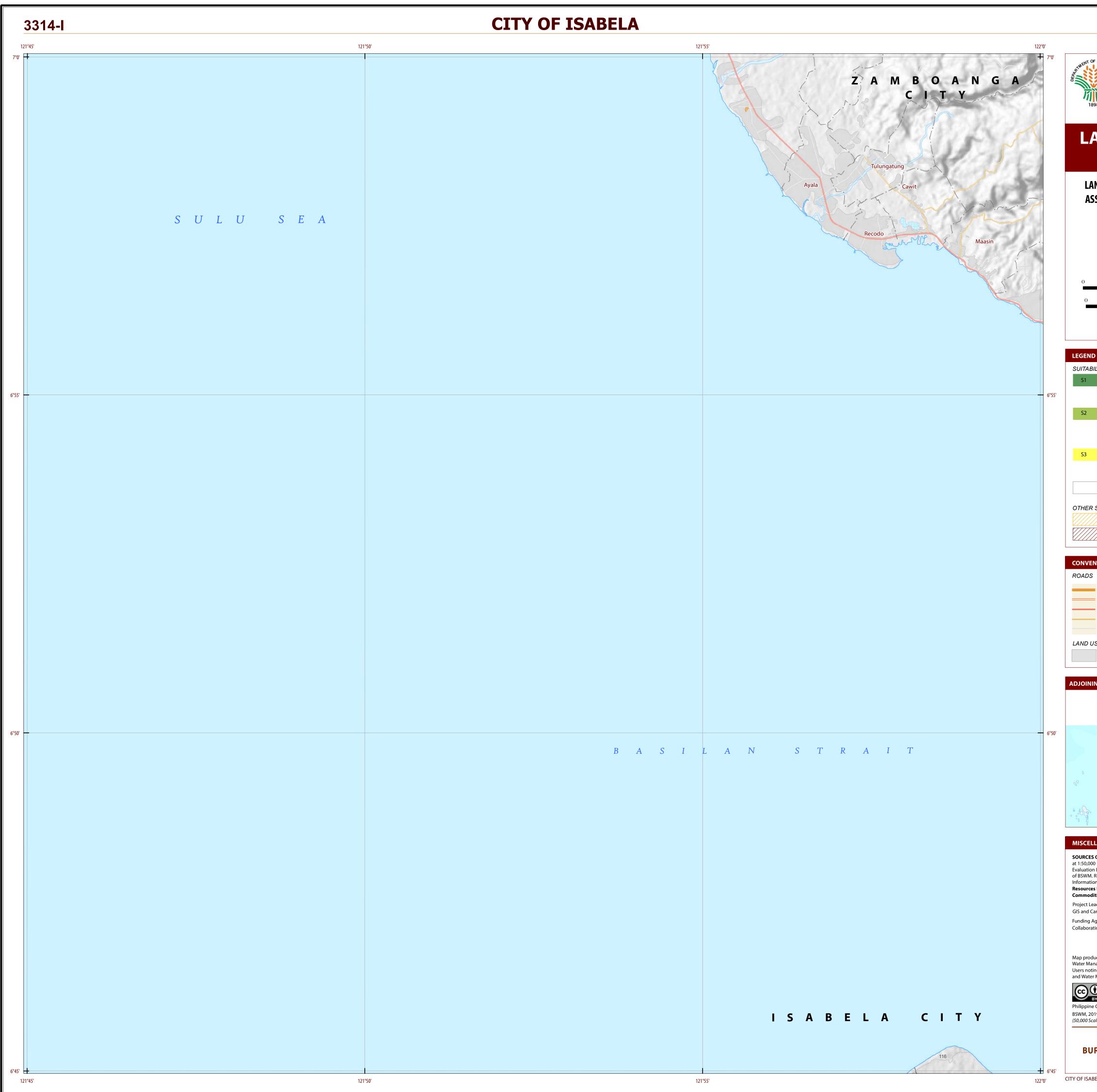
Whole part of City of Isabela is classified as climatic Type IV.



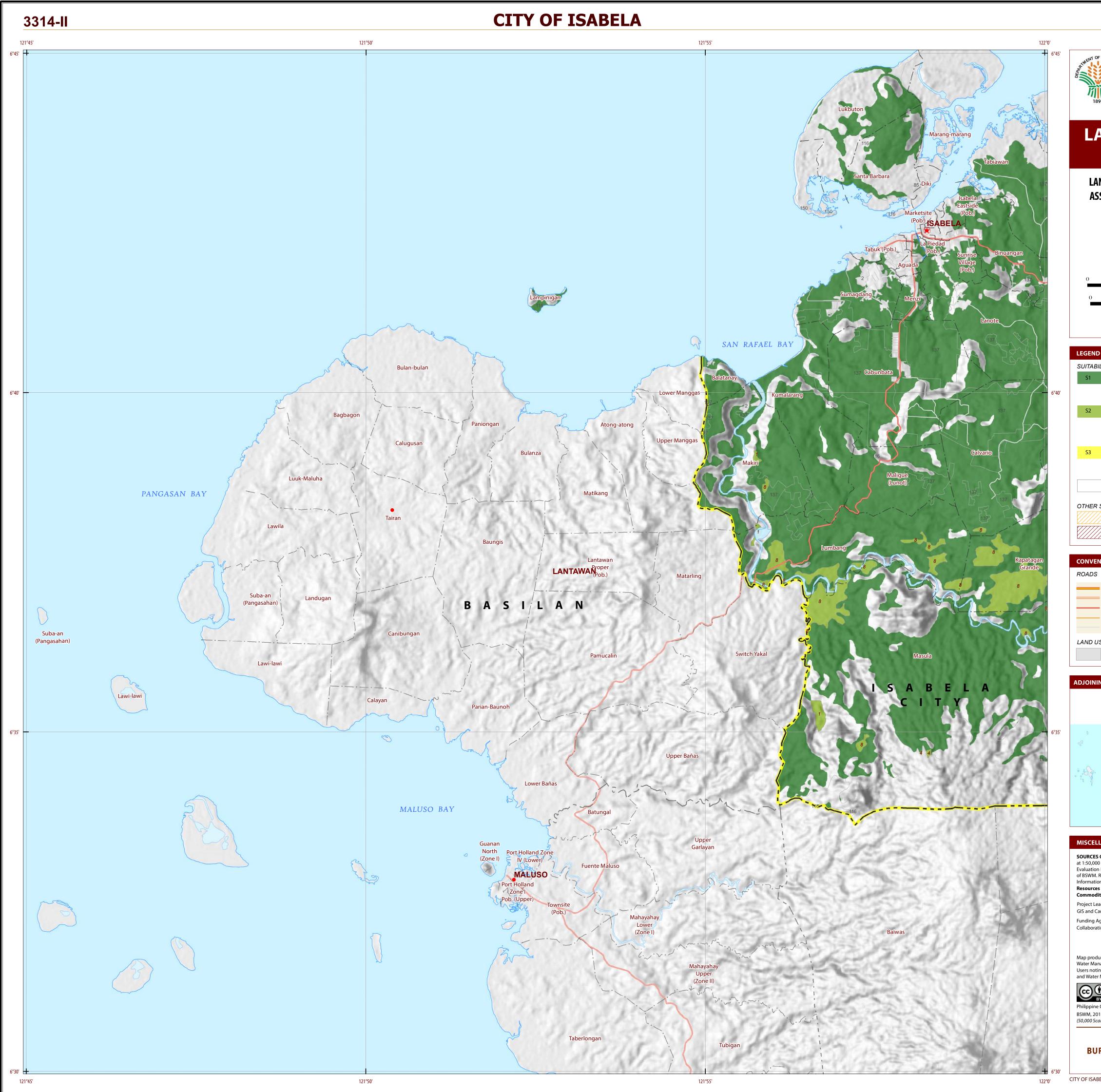
Marginally Suitable (S3) Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

Not Suitable / Not Relevant Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater than 18% slope, irrigated paddy rice and miscellaneous land types such as built up areas, roads, etc are considered as not relevant.

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



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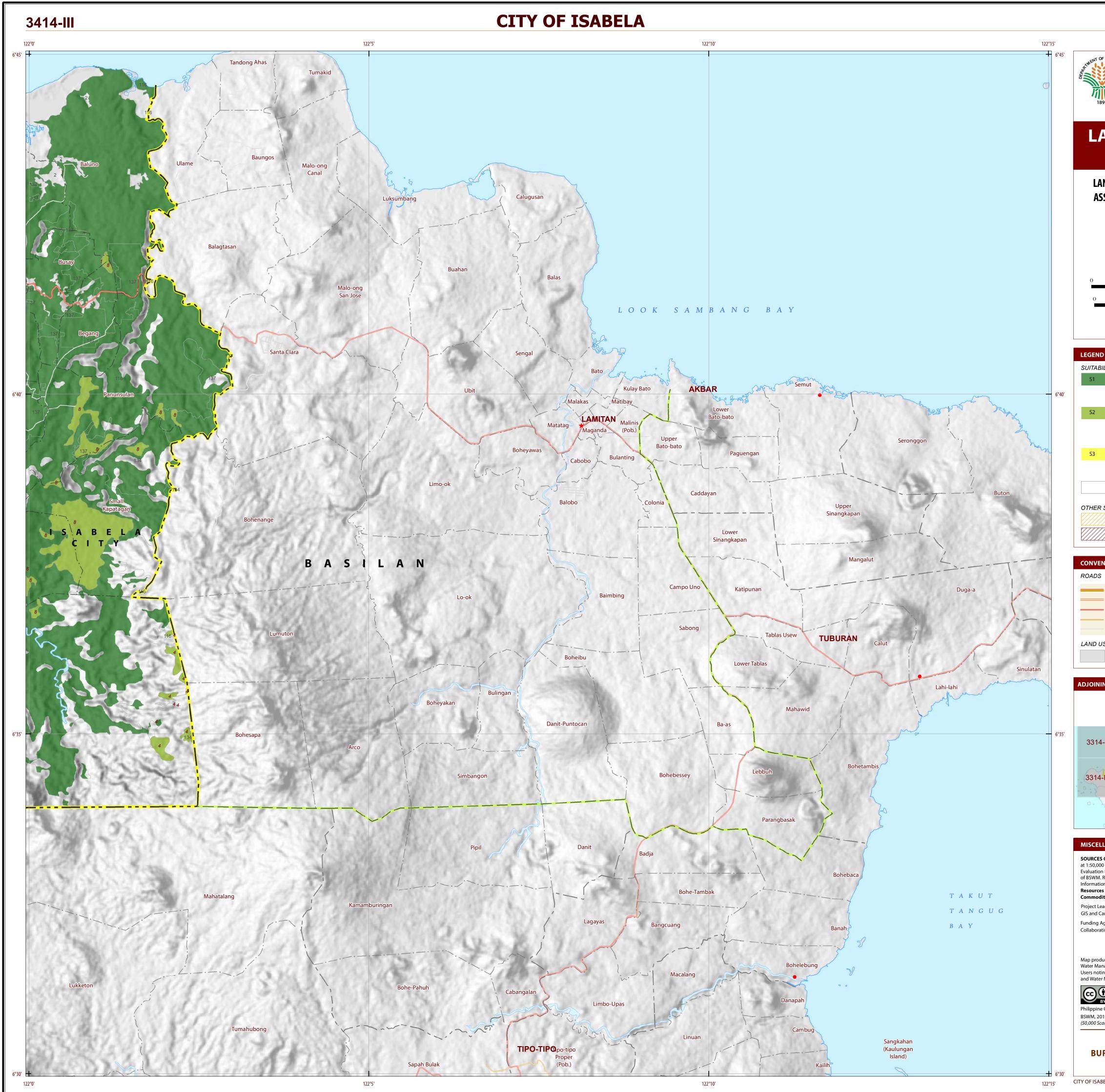
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| 10 scale. Land resources information from the Agricultural n Division (ALMED), Soils Survey Division (SSD) and Labora. Rice areas obtained from the Land Use System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilate sevaluation and Suitability Assessment of Strategic P lities Project implemented by BSWM (2017). eader : BERNARDO B. PASCUA Cartography : IRVIN K. SAMALCA Agency : Department of Agriculture - Bureau of Agriculture and F : Department of Agriculture and Fisherie Agriculture Regional Field Office of Reg : Local Government Unit (LGU) of covere luced by the Geomatics and Soil Information Technology | Land Management and atory Services Division (LSD) 5) and Philippine Rice tion through the Land roduction Areas for Major Agricultural Research (DA-BAR) isheries (PCAF) s - ARMM, Department of ion IX, X, XI, XII and XIII (Caraga) d provinces and municipalities |
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