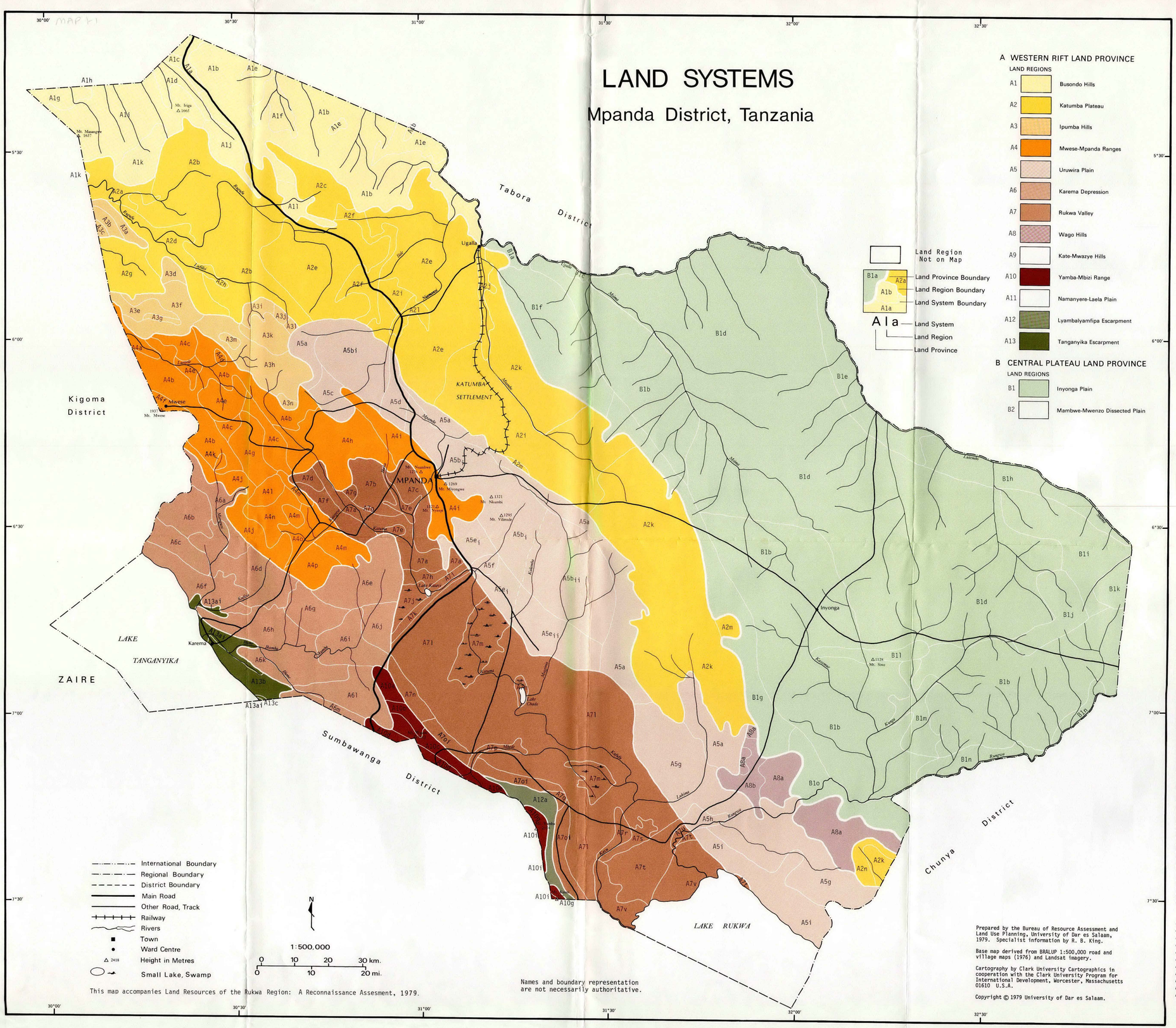
LAND SYSTEMS

Mpanda District, Tanzania



This map accompanies Land Resources of the Rukwa Region: A Reconnaissance Assesment, 1979.

Names and boundary representation are not necessarily authoritative.

A WESTERN RIFT LAND PROVINCE

LAND REGIONS

- A1 Busondo Hills
- A2 Katumba Plateau
- A3 Ipumba Hills
- A4 Mwese-Mpanda Ranges
- A5 Uruwira Plain
- A6 Karema Depression
- A7 Rukwa Valley
- A8 Wago Hills
- A9 Kate-Mwazye Hills
- A10 Yamba-Mbizi Range
- A11 Namanyere-Laela Plain
- A12 Lyambalyamfipa Escarpment
- A13 Tanganyika Escarpment

B CENTRAL PLATEAU LAND PROVINCE

LAND REGIONS

- B1 Inyonga Plain
- B2 Mambwe-Mwenzo Dissected Plain

Prepared by the Bureau of Resource Assessment and Land Use Planning, University of Dar es Salaam, 1979. Specialist Information by R. B. King.

Base map derived from BRALUP 1:500,000 road and village maps (1976) and Landsat imagery.

Cartography by Clark University Cartographics in cooperation with the Clark University Program for International Development, Worcester, Massachusetts 01610 U.S.A.

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A. WESTERN RIFT LAND PROVINCE

A1 BUSONDO HILLS

- A1a Buyenze Plateau
- A1b Busongoro Dissected Plateau
- A1c Sebagusi Stepped Plateau
- A1d Mulofwesi Valley
- A1e Bukombe Plateau
- A1f Mufombosi Plain
- A1g Kosio Dissected Plateau
- A1h Mkanga Plateau
- A1i Tumbatumba Dissected Plateau
- A1j Kifulu Dissected Plateau
- A1k Simambula Hills
- A1l Masangwa Dissected Plateau

A2 KATUMBA PLATEAU

- A2a Middle Rugufu Plain
- A2b Upper Rugufu Plain
- A2c Sangwa Plain
- A2d Middle Rugufu Dissected Plain
- A2e Mishamo Plain
- A2f Nkondwe Escarpment
- A2g Butandula Plain
- A2h Lufilisi Gorge
- A2i Upper Malambo Plateau
- A2j Lower Malambo Valley
- A2k Mlala Plateau
- A2l Njensi Cuesta
- A2m Mahame Escarpment
- A2n Lukwati Dissected Plateau

A3 IPUMBA HILLS

- A3a Kuba Hills
- A3b Kuba Escarpment
- A3c Mkuyu Escarpment
- A3d Isenga Valleys
- A3e Wehasa Ridge
- A3f Wehasa Foothills
- A3g Upper Igunga Valley
- A3h Ushamba Hills
- A3i Igalukilo Dissected Plateau
- A3j Igalukilo Cuesta
- A3k Kasiasilungwe Dissected Plateau
- A3l Rugufu Headwaters
- A3m Luegele Basin
- A3n Ihelembe Basin

A4 MWESE-MPANDA RANGES

- A4a Mlofwezi Valley
- A4b Munsalya Hills
- A4c Upper Katuma Valley
- A4d Sambala Basin
- A4e Matete Valley
- A4f Mwese Dissected Plateau
- A4g Mnyangwa Hills
- A4h Mpombe Plain with Hills
- A4i Kabungu Ranges
- A4j Sitwe-Wansisi Hills
- A4k Upper Msenguse Basin
- A4l Manda Plateau
- A4m Lugala Range
- A4n Upper Kasegese Valley
- A4o Middle Kasegese Valley
- A4p Wakole Plain with Hills

A5 URUWIRA PLAIN

- A5a Uruwira Piedmont
- A5b Mpanda Plain
  - A5bi climate demarcation
  - A5bii climate demarcation
- A5c Nyomansi Basin
- A5d Upper Mpanda Valley
- A5e Sitalike Inselberg Plain
  - A5ei climate demarcation
  - A5eii climate demarcation
- A5f Ndiso Hills
- A5g Lukima Plain
- A5h Rungwa Mbuga
- A5i Sola Plain with Hills

A6 KAREMA DEPRESSION

- A6a Msenguse Piedmont
- A6b Msenguse Plain
- A6c Itoto Plain
- A6d Kafisia Plain
- A6e Ibulwa Plain
- A6f Ugalaba Dissected Plain
- A6g Manyo Plain
- A6h Ikamba Plain
- A6i Nkumba Plain
- A6j Kamba Plain
- A6k Middle Ifume Valley
- A6l Kanyamikae Plain
- A6m Kisi Plain

A7 RUKWA VALLEY

- A7a Middle Katuma Valley
- A7b Mahata Plain
- A7c Kalilankulukulu Piedmont
- A7d Milala Plain
- A7e Mafunzi Floodplain
- A7f Kasegese Bajada
- A7g Kabwaga Hills
- A7h North Kitavi Floodplain
- A7i Lower Katuma Valley
- A7j South Kitavi Floodplain
- A7k Ilyandi Sandy Ridge
- A7l Mlele Plain
- A7m Ikuu Floodplains
- A7n Malambo Piedmont
- A7o Muze Piedmont
  - A7oi climate demarcation
  - A7oii climate demarcation
- A7p Mbede Valley
- A7q Maji Moto Pediment
- A7r Kavu Valley
- A7s Mlila Sandy Ridge
- A7t Mlila Plain
- A7u Lower Rungwa Valley
- A7v Kavu-Rungwa Deltas
- A7w Zimba Hills
- A7x Kaoze Plain
- A7y Ilambo Plain
- A7z Momba Valley

A8 WAGO HILLS

- A8a Wago Plain with Hills
- A8b Tetemia Plain with Hills

A9 KATE-MWAZYE HILLS

- A9a Kate - Chocha Hills
- A9b Ndeli Inselberg Plain
- A9c Ntembwe Plateau
- A9d China Escarpment
- A9e Kate - Mkowe Inselberg Plain
- A9f Pito Piedmont with Hills
- A9g Kira - Longo Hills
- A9h Chopota Mbuga
- A9i Kalimira Hills
- A9j Kafukola Plateau
- A9k Kana Dissected Plateau
- A9l Nazareti - Kanda Hills
- A9m Toromela Escarpment
- A9n Middle Kalambo Valley
- A9o Mbaa Hills
- A9p Msambia Plain with Hills
- A9q Kapozwa Plain
- A9r Kaluko Valley
- A9s Chipapa Dissected Plateau
- A9t Ninga Plain with Hills
- A9u Thombe - Talanda Hills

A10 YAMBA - MBIZI RANGE

- A10a Malambo Hills
- A10b Malambo Headwaters
- A10c Kitumba - Mtozi Trough
- A10d Chizi Escarpment
- A10e Kipofa Hills
- A10f Matala Dissected Plateau
- A10g Yamba Range
- A10h Mantala Hills
- A10i Mkwamba Hills
- A10j Chala Mountain
- A10k Swalla Hills
- A10l Kalulungu Hills
- A10m Kizimgu Escarpment
- A10n Molo Dissected Plateau
- A10o Msanda - Seleli Hills
- A10p Mbizi Mountains

A11 NAMANYERE - LAELA PLAIN

- A11a Lyazumbi Plain
- A11b Namanyere Plain
- A11c Katani Plain
- A11d Kipande Plain
- A11e Sendu Mbuga
- A11f Sintali Plain
- A11g Upper Luiche Valley
- A11h Upper Narusi Valley
- A11i Mpui Dissected Plain
- A11j Mwimbi-Mwazwe Plain
- A11k Lower Narusi Valley
- A11l Mshani Plain
- A11m Kwera Plain
- A11n Lower Narusi Valley
- A11o Laela Valley
- A11p Mtembwe Valley
- A11q Mombo Plain
- A11r Upper Saisi Valley
- A11s Lower Saisi Valley

A12 LYAMBALYAMFIPA ESCARPMENT

- A12a Lyambalyamfipa Escarpment

A13 TANGANYIKA ESCARPMENT

- A13a Tanganyika Lacustrine Terraces
  - A13ai climate demarcation
  - A13aii climate demarcation
- A13b Karema Hills
- A13c Kanchui Plain
- A13d Kashusha Plain with Hills
- A13e Sipala - Isaba Ranges
- A13f Monga Plain
- A13g Liamba Range
- A13h Mazolo Piedmont
- A13i Manda Islands
- A13j Kipili Hills
- A13k Kizumbi Hills
- A13l Kausinse Plateau
- A13m Kawala Dissected Plateau

B. CENTRAL PLATEAU LAND PROVINCE

B1 INYONGA PLAIN

- B1a Ugalla Piedmont
- B1b Kassemue Plain
- B1c Ugalla Floodplain
- B1d Ilunde Plain
- B1e Katumbiki Plain
- B1f Ugalla Plain
- B1g Msima Piedmont
- B1h Shana Plain
- B1i Galamila Plain
- B1j Tabora Plain
- B1k Galunko Mbuga
- B1l Siwe Hills
- B1m Kunga Plain
- B1n Middle Rungwa Valley
- B1o Lungombe Piedmont

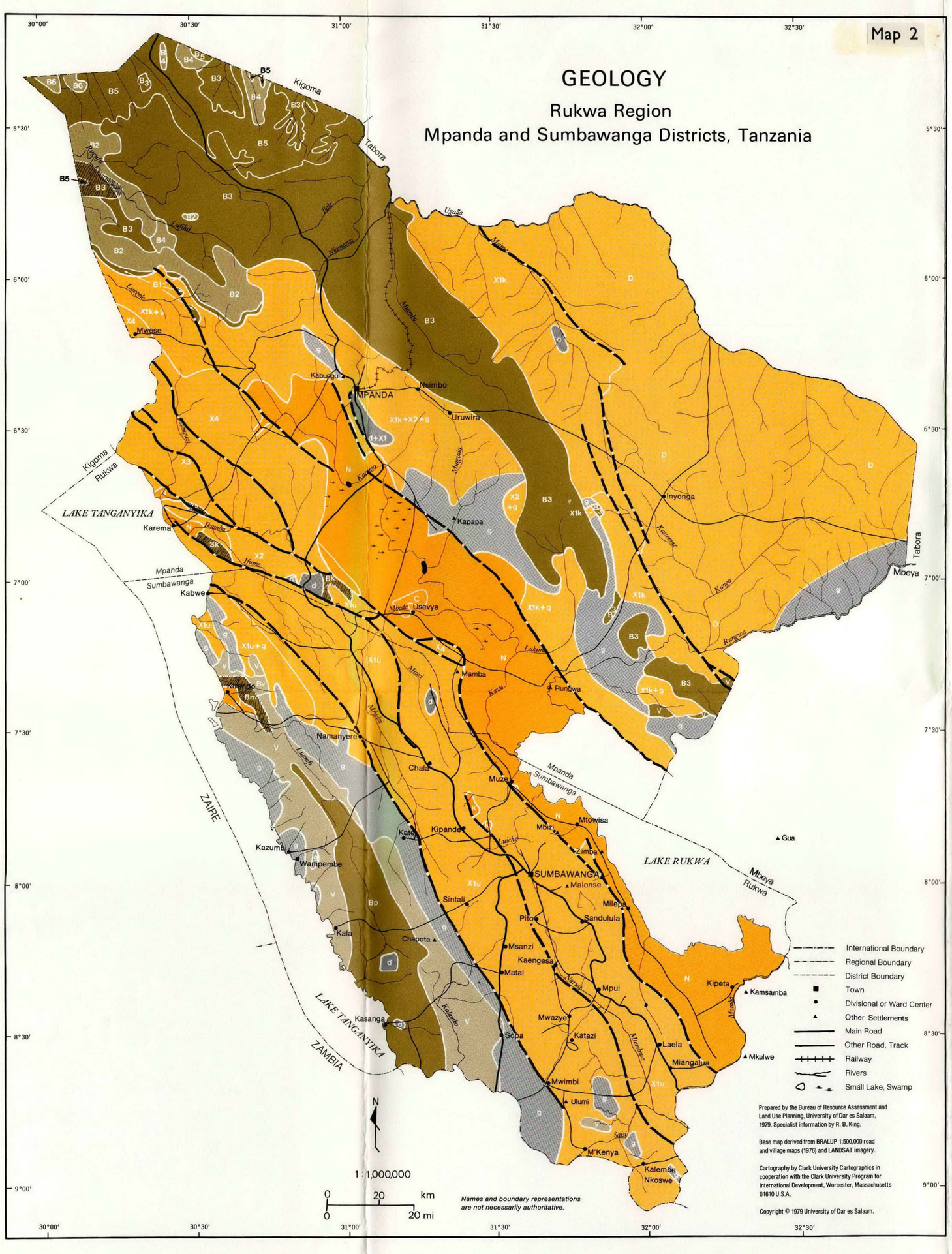
B2 MAMBWE - MWENZO DISSECTED PLAIN

- B2a M'Kenya Plain
- B2b Jendwe Dissected Plateau

Map 2

GEOLOGY

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania



- International Boundary
- Regional Boundary
- District Boundary
- Town
- Divisional or Ward Center
- Other Settlements
- Main Road
- Other Road, Track
- Railway
- Rivers
- Small Lake, Swamp

Prepared by the Bureau of Resource Assessment and Land Use Planning, University of Dar es Salaam, 1979. Specialist information by R. B. King.

Base map derived from BRALUP 1:500,000 road and village maps (1976) and LANDSAT imagery.

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PERIOD	LOCAL EQUIVALENTS		ROCK TYPES	SYSTEM
QUATERNARY		N	Alluvinium	
MESOZOIC		C	Sands and mudstones	CRETACEOUS
		K	Conglomerates, mudstones, siltstones and coaly shales	KARROO
UPPER PROTEROZOIC	Karema Zone	Bk	Conglomerates, limestones, sandstones and siliceous-calcareous rocks	BUKOBAN
	Kipili Volcanics	Bv	Andesite-dacite porphyrites, rhyolites and tuffs	
	Mtakuja Conglomerates	Bm	Conglomerates, grits, sandstones and siltstones	
	Plateau Series	Bp	Sandstones, quartzites and grits	
	Kigonero Flags	B6	Shales, sandstones and flags	
	Malagorosi Beds	B5	Quartzites, sandstones and arkoses	
	Kossic Shales	B4	Shales	
	Pre-Kossic Sandstones	B3	Quartzites and sandstones	
	Makamba Formation	B2	Shales and sandstones	
	Mpeta Basal Quartzite	B1	Quartzite	
MIDDLE PROTEROZOIC		V	Dacite porphyrites and rhyolite porphyrites	KARAGWE-ANKOLEAN
LOWER PROTEROZOIC	Wansisi Series	X4	Schists, amphibolites, quartzites and gneisses	UBENDIAN
	Ubende Series	X3	Amphibolites, gneisses and schists	
	Ikulu Series	X2	Amphibolites, gneisses and schists	
	Katuma Series	X1k	Gneisses, schists, amphibolites and granito-gneisses	
	Ufipa Series Mahali Series	X1u	Schists, gneisses and granito-gneisses	
ARCHAEAN		D	Schists and gneisses	DODOMAN

OTHER CRYSTALLINE ROCKS

- g — Granite
- d — Dolerites and metabasites

TECTONICS

- Major fault
- Folding

FIGURE 3

SOIL WATER AVAILABILITY FOR MAIZE

Rukwa Region

Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma
Tabora
Rukwa
Ugalla
Mpanda
Sumbawanga
Mbeya
ZAIRE
ZAMBIA
LAKE TANGANYIKA
LAKE RUKWA

Rungwa
Lufilisi
Ilale
Niamanzi
Luegele
Mlomba
Msima
Mwese
Kabungu
MPANDA 624
Nsimbo
Uruwira 669
Msengezi
Katuma
Msegenya
Inyonga 649
Kapapa
Karema 584
Ikamba
Ifume
Kasemue
Tabora
Mbeya
Kabwe
Kanga
Mbede
Usevya
Lukima
Rungwa
Mamba 540
Kirando 490
Mfuvizi
Kasu
Rungwa
Namanyere
Lwanfi
Chala
Muze 632
Mtowisa
Kate 668
Kipande
Mbizi 680
Luiche
Gua 590
Kazumbi
Wampembe
Zimba 530
SUMBAWANGA 500
Malonse 529
Sintali
Milepa
Pito
Sandulula
Kala 712
Chapota
Msanzi
Kaengesa
Matai
Kipeta
Kamsamba 502
Kasanga
Kalambo
Sopa
Mwazye 590
Katazi
Mpui
Laela
Mkulwe 520
Miangalua
Mwimbi
Ulumi
M'Kenya
Kalembe
Nkoswe

Suitable

Marginal to Unsuitable

669 Mean annual rainfall in mm for four lowest years out of ten most recent years of available data.

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

Names and boundary representations are not necessarily authoritative.

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Base map derived from BRALUP 1:500,000 road and village maps (1976) and LANDSAT imagery.

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Map 3

ALTITUDE

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma
Tabora
Rukwa
Mpanda
Sumbawanga
Mbeya
ZAIRE
ZAMBIA
LAKE TANGANYIKA
LAKE RUKWA

Ugalla
Rugufu
Lufifisi
Lugeke
Ifume
Ikamba
Kaluma
Ilale
Niamansi
Mumbo
Msaginia
Msengezi
Mtisu
Kasemue
Kunga
Rungwa
Lukima
Kavu
Mbedé
Mtusi
Mfuzizi
Luanfi
Kalambo
Luiche
Narusi
Saisi
Mamba

Mwese
Kabungu
MPANDA
Nsimbo
Uruwira
Inyonga
Karema
Kapapa
Kabwe
Usevya
Kirando
Mamba
Rungwa
Namanyere
Chala
Muze
Kate
Kipande
Kazumbi
Wampembe
Kala
Chapota
Sintali
Kasanga
Sopa
Kaengesa
Matai
Msanzi
Mpui
Mwazye
Katazi
Laela
Miangalua
Mwimbi
Ulumi
M'Kenya
Kalembe
Nkoswe
Mtowisa
Mbizi
Zimba
SUMBAWANGA
Malonse
Milepa
Pito
Sandulula
Kipeta
Kamsamba
Mkulwe
Gua

772 m 2533 ft
806 m 2644 ft

1000 1200 1400 1600 1800 2000

Metres 2200 2000 1800 1600 1400 1200 1000 800
Feet 7220 6560 5910 5250 4590 3940 3280 2620

N

1 : 1,000,000

0 20 km
0 20 mi

Names and boundary representations are not necessarily authoritative.

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

Prepared by the Bureau of Resource Assessment and Land Use Planning, University of Dar es Salaam, 1979. Specialist information by R. B. King.

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Map 4

MODAL SLOPE

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma
Tabora
Rukwa
Mbeya
Mpanda
Sumbawanga
ZAIRE
ZAMBIA
LAKE TANGANYIKA
LAKE RUKWA

Rugufu
Luiche
Ugalla
Msima
Ulale
Niamanzi
Miombo
Mwese
Kabungu
MPANDA
Nsimbo
Uruwira
Mlengwi
Magamia
Kauma
Inyonga
Kapapa
Karema
Ikamba
Kasemue
Ifume
Kabwe
Usevya
Mbede
Kirando
Mamba
Lukima
Rungwa
Kasye
Mtoa
Mfuvira
Namanyere
Luamfi
Chala
Muze
Kate
Kipande
Kazumbi
Wampembe
Mtowisa
Mbizi
Zimba
Gua
SUMBAWANGA
Malonse
Milepa
Sandulula
Pito
Sintali
Kala
Chapota
Msanzi
Kaengesa
Matai
Kipeta
Kamsamba
Mpui
Mwazye
Katazi
Laela
Miangalua
Mkulwe
Sopa
Kasanga
Kalambo
Mtembwe
Mwimbi
Ulumi
Saisi
M'Kenya
Kalembe
Nkoswe

Moderate to steep slope (>6°)
Gentle slope (2°-6°)
Very gentle slope (0.5°-2°)
Flat (<0.5°)

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

Names and boundary representations are not necessarily authoritative.

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Map 5

RUGGEDNESS

Rukwa Region

Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Very little dissected (<0.006)

Little dissected (0.006-0.03)

Moderately dissected (0.03-0.1)

Dissected (0.1-0.4)

Rugged (0.4-1.3)

Very rugged (>1.3)

International Boundary

Regional Boundary

District Boundary

Town

Divisional or Ward Center

Other Settlements

Main Road

Other Road, Track

Railway

Rivers

Small Lake, Swamp

N

1 : 1,000,000

0 20 km

0 20 mi

Names and boundary representations are not necessarily authoritative.

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Map 6

VEGETATION TYPES

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma
Tabora
Mbeya
Rukwa
Mpanda
Sumbawanga

LAKE TANGANYIKA
LAKE RUKWA
ZAIRE
ZAMBIA

Mwese
Kabungu
MPANDA
Nsimbo
Uruwira
Inyonga
Karema
Kapapa
Kabwe
Usevya
Kirando
Mamba
Rungwa
Namanyere
Chala
Muze
Kate
Kipande
Mtowisa
Mbizi
Gua
Zimba
Kazumbi
Wampembe
SUMBAWANGA
Malonse
Sintali
Milepa
Pito
Sandulula
Kala
Chapota
Msanzi
Kaengesa
Matai
Mpui
Kipeta
Kamsamba
Kasanga
Mwazye
Sopa
Katazi
Laela
Miangalua
Mkulwe
Mwimbi
Ulumi
M'Kenya
Kalembe
Nkoswe

Kigoma
Tabora
Rukwa
Mbeya
Kasanga
Kabwe
Karema
Kirando
Mwese
Kate
Kazumbi
Wampembe
Kala
Sintali
Chapota
Pito
Milepa
Sandulula
Msanzi
Kaengesa
Matai
Mpui
Kipeta
Kamsamba
Mwazye
Sopa
Katazi
Laela
Miangalua
Mkulwe
Mwimbi
Ulumi
M'Kenya
Kalembe
Nkoswe
Inyonga
Mbeya
Rungwa
Mamba
Usevya
Kapapa
Kabungu
MPANDA
Nsimbo
Uruwira
Chala
Muze
Namanyere
Kirando
Mtowisa
Mbizi
Gua
Zimba
SUMBAWANGA
Malonse

Forest
Rivarin vegetation
20-49% canopy cover
50-69% canopy cover
above 70% canopy cover
Woodland
Bushland
Bushed grassland
Grassland
Wooded grassland
Escarpment vegetation
Highland vegetation
Swamps

20-49% canopy cover
50-69% canopy cover
above 70% canopy cover
Woodland
Bushland
Bushed grassland

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

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Map 7

SAMPLE LOCATIONS

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

MP 30 MP 29 MP 63 MP38 MP 37 MP65 MP36 MP 62 MP 64 MP 28 MP 27 MP 26 MP 35 MP 34 MP 54 MP 56 MP 55 MP 25 MP 24 MP41 MP40 MP 57 MP 58 MP 59 MP 60 MP61 MP 22 MP 23 MP 32 MP31 MP 39 MP 2 MP 3 MP 4 MP 5 MP 1 MP 42 MP 43 MP 44 MP 21 MP 18 MP 20 MP 19 MP 17 MP 45 MP 50 MP49 MP 51 MP6-16 MP70 MP46 MP47 MP 52 MP 53 MP 103 MP 104 MP 89 MP 90 MP91 MP 48 MP 88 MP86 MP87 MP85 MP 84 MP83 MP 82 MP81 MP 93 MP94 MP 92 MP 95 MP96 MP80 MP 97 MP102 MP 100-101 MP 98-99 MP78 MP 79 MP 110 MP 111 MP 109 MP108 MP 129 MP 107 MP106 MP 105 MP 117 MP121 MP 120 MP 118 MP 119 MP 128 MP 127 MP 122 MP 126 MP 123-125 MP 114 MP 115 MP 116 MP 112 P 113

SA67 SA66 SA65 SA18 SA19 SA17 SA68-76 SA77 SA4 SA103 SA15 SA125 SA16 SA101-102 SA3 SA62 SA61 SA63 SA64 SA12 SA14 SA124 SA11 SA10 SA8 SA9 SA7 SA104 SA28-29 SA1 SA106 SA34-35 SA36 SA32-33 SA56 SA30 SA52 SA21 SA27 SA22 SA37 SA38 SA99 SA98 SA88 SA58 SA59 SA57 SA60 SA31 SA23 SA24 SA53 SA48 SA40 SA41 SA112-118 SA79 SA94 SA97 SA90 SA92 SA91 SA93 SA95 SA96 SA43 SA44 SA45 SA47 SA46 SA50 SA51 SA55 SA26 SA25

Mwese Kabungu MPANDA Nsimbo Uruwira Inyonga Mbeya Karema Kabwe Usevya Kirando Namanyere Chala Muze Kate Kipande Kazumbi Wampembe Sintali Pito Sandulula Kala Chapota Msanzi Kaengesa Matai Kasanga Sopa Mwazye Katazi Laela Miangalua Mwimbi Ulumi M'Kenya Kalembe Nkoswe Milepa SUMBAWANGA Mtowisa Mbizi Zimba Malonse Kapapa Mamba Rungwa Kipeta Kamsamba Mkulwe Gua

Kigoma Tabora Rukwa Mpanda Sumbawanga Mbeya

Kigoma Rukwa Tabora Mpanda Sumbawanga Mbeya Rukwa

LAKE TANGANYIKA LAKE RUKWA LAKE TANGANYIKA

ZAIRE ZAMBIA

Ruiguti Luiche Ugalla Msima Mtumba Ugalla Ilale Lufubai Niamanzi Luegele Ifume Mtozi Mpuzi Luamfi Lukima Kavu Rungwa Kunga Kaseme Mpuzi Katuma Mtegimia Msengesi Ikamba Kalambo Narusi Mbede Mpuzi Mtembwe Saisi

SA78-79 SA82

N

1 : 1,000,000

0 20 km

0 20 mi

Names and boundary representations are not necessarily authoritative.

- International Boundary
- Regional Boundary
- District Boundary
- Town
- Divisional or Ward Center
- Other Settlements
- Main Road
- Other Road, Track
- Railway
- Rivers
- Small Lake, Swamp

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Map 8

SUITABILITY FOR MAIZE

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

S3n>Nre
S3ne>Nr
S3n+Nre
S3re+Nr
S3e>Nre
Nre>S3n
S3ne>(S1+S2n)
S3e+S1
S3ne>(S1+S2n)
No>S1
Nre+S3n
S3n
S3nm
No>S1
Nre+S3n
No>S1
S3e>S2n
Nre>S3e
No>S1
S3n+No
Nn
S1+No+S3ne
S3nm+S2m+Nro
Nro>(S3nm+S2m)
S1+No+S3ng
S3e
S3m
S1+S3o+No
S3nm>No
S3n+No
S3n>No
S3n+No
S3n>Nr
S3ne>Nre
Nro>S3n

Mwese
Kabungu
MPANDA
Nsimbo
Uruwira
Kigoma
Rukwa
Tabora
Karema
LAKE TANGANYIKA
Mpanda
Sumbawanga
Kabwe
Kirando
Namanyere
ZAIRE
Kazumbi
Wampembe
Kate
Kipande
Chala
Muze
Kapapa
Inyonga
Mbeya
Usevya
Mamba
Rungwa
Kiloleli
Kasanga
ZAMBIA
Sopa
Mwimbi
Ulumi
SUMBAWANGA
Malonse
Sintali
Kala
Chapota
Msanzi
Kaengesa
Matai
Pito
Sandulula
Milepa
Mpui
Mwazye
Katazi
Laela
Miangalua
Mkulwe
Kamsamba
Klpeta
Mtowisa
Mbizi
Zimba
Gua
LAKE RUKWA
M'Kenya
Kalembe
Nkoswe

Kigoma
Tabora
Ugalla
Ifume
Mbede
Lukima
Mtowisi
Kasiu
Mfizisi
Luanfi
Kamalampaka
Kalambo
Mtembwa
Marwa
Mbeya
Rukwa
Mpanda
Sumbawanga
Saisi

Land Suitability Classes

S1	Highly suitable
S2	Moderately suitable
S3	Marginally Suitable
N	Not Suitable

Land Suitability Limitations

e	Erosion potential
m	Moisture availability
n	Nutrient availability
o	Oxygen availability in the root zone
r	Rooting depth

- International Boundary
- Regional Boundary
- District Boundary
- Town
- Divisional or Ward Center
- Other Settlements
- Main Road
- Other Road, Track
- Railway
- Rivers
- Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

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Map 9

SUITABILITY FOR COTTON

Rukwa Region

Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Land Suitability Classes

- S1 Highly suitable
- S2 Moderately suitable
- S3 Marginally Suitable
- N Not Suitable

Land Suitability Limitations

- e Erosion potential
- m Moisture availability
- n Nutrient availability
- o Oxygen availability in the root zone
- r Rooting depth
- t Soil temperature

1 : 1,000,000

0 20 km

0 20 mi

Names and boundary representations are not necessarily authoritative.

- International Boundary
- Regional Boundary
- District Boundary
- Town
- Divisional or Ward Center
- Other Settlements
- Main Road
- Other Road, Track
- Railway
- Rivers
- Small Lake, Swamp

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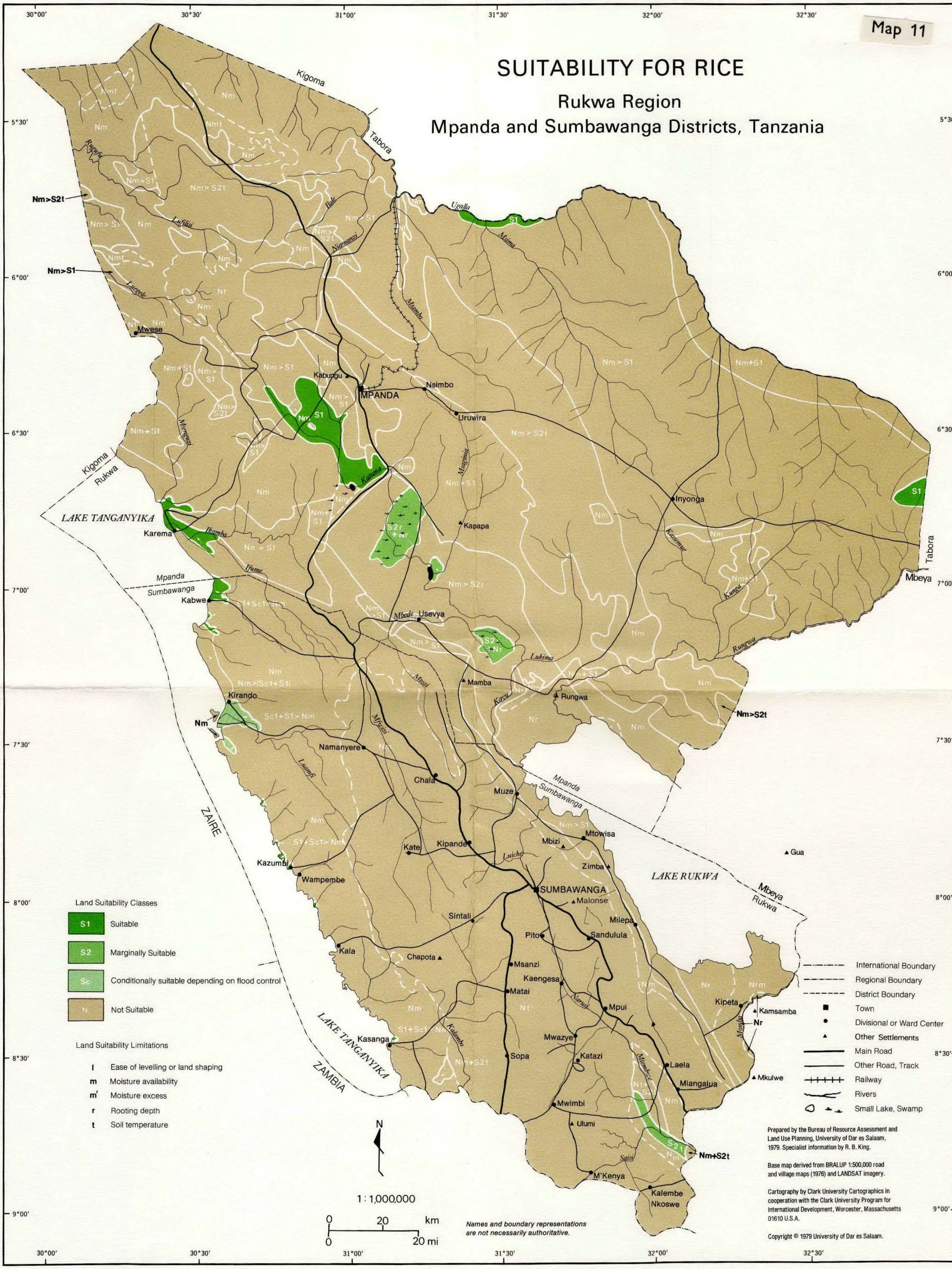
Map 11
SUITABILITY FOR RICE
Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania
30°00′
30°30′
31°00′
31°30′
32°00′
32°30′
5°30′
6°00′
6°30′
7°00′
7°30′
8°00′
8°30′
9°00′
Kigoma
Tabora
Ugalla
S1
Msima
Nmt
Nm
Nm>S1
Nm>S2t
Nm>S2t
Nm>S1
Rugufu
Lufilisi
Ilale
Niamanzi
Luegele
Nt
Mwese
Mtambo
Nm+S1
Nm>S2t
Kabungu
MPANDA
Nsimbo
Uruwira
Nm>S1
Nm+S1
Msengwzi
Kigoma
Rukwa
LAKE TANGANYIKA
Karema
Ikamba
Kabuma
Msaginia
Nm+S1
S2r +Nr
Kapapa
Inyonga
Kasemwe
Kunga
Rungwa
Tabora
Mbeya
Ifume
Mpanda
Sumbawanga
Kabwe
S1+Sc1>Nm
Nm>S2r
Mbede
Usevya
S2 +Nr
Lukima
Nm>|Sc1+S1|
Mtozi
Mamba
Karu
Nr
Rungwa
Kirando
Sc1+S1>Nm
Namanyere
Mfwizi
Luamfi
Chala
Muze
Mpanda
Sumbawanga
ZAIRE
S1+Sc1>Nm
Kate
Kipande
Mbizi
Mtowisa
Luiche
Zimba
Gua
LAKE RUKWA
Mbeya
Rukwa
Kazumbi
Wampembe
SUMBAWANGA
Malonse
Sintali
Milepa
Pito
Sandulula
Kala
Chapota
Msanzi
Kaengesa
Matai
Narusi
Mpui
Kipeta
Kamsamba
Nrm
Momba
Kasanga
Kalambo
LAKE TANGANYIKA
ZAMBIA
Nm+S2t
Sopa
Mwazye
Katazi
Mtembwe
Laela
Miangalua
Mkulwe
Nt+S2t
Mwimbi
Ulumi
S2t
Saisi
M'Kenya
Kalembe
Nkoswe
Land Suitability Classes
S1 Suitable
S2 Marginally Suitable
Sc Conditionally suitable depending on flood control
N Not Suitable
Land Suitability Limitations
l Ease of levelling or land shaping
m Moisture availability
m′ Moisture excess
r Rooting depth
t Soil temperature
International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp
N
1 : 1,000,000
0 20 km
0 20 mi
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Map 12

SUITABILITY FOR IRRIGATION

Rukwa Region

Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma Tabora Rukwa Mpanda Sumbawanga Mbeya

LAKE TANGANYIKA LAKE RUKWA ZAIRE ZAMBIA

MPANDA SUMBAWANGA

Mwese Karema Kabwe Kirando Namanyere Kazumbi Wampembe Kala Kasanga Mpui Mwimbi Mwazye Matai Kaengesa Msanzi Sintali Pito Chapota Sopa Katazi Laela Miangalua Mkulwe Kipeta Kamsamba Milepa Sandulula Malonse Zimba Gua Mtowisa Mbizi Muze Chala Kate Kipande Kapapa Nsimbo Uruwira Inyonga Mbeya Tabora Rungwa Mamba Usevya Kabungu Ugalla Rukwa Lukima Kasesenue Kunga Rumpwa Mtisha Mbede Ifume Lufifisi Lwegele Luiche Kalambo Mtoma Mpuzi Lwanfi Msangwa Katuma Mtambo Mtowisa Nkoswe Kalembe M'Kenya Ulumi Saisi Nkwamba Mombo Mbeya Rukwa

Land Suitability Classes

S1	Suitable
S2	Marginally Suitable
N	Not Suitable

Land Suitability Limitations

d	Depth to sand, gravel, hardpan, water table or slowly permeable clay
m	Moisture holding capacity
s	Slope

- International Boundary
- Regional Boundary
- District Boundary
- Town
- Divisional or Ward Center
- Other Settlements
- Main Road
- Other Road, Track
- Railway
- Rivers
- Small Lake, Swamp

N

1 : 1,000,000

0 20 km

0 20 mi

Names and boundary representations are not necessarily authoritative.

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Map 13

GAME AND FOREST RESERVES

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00′ 30°30′ 31°00′ 31°30′ 32°00′ 32°30′

5°30′ 6°00′ 6°30′ 7°00′ 7°30′ 8°00′ 8°30′ 9°00′

Kigoma
Tabora
Rugufu
Ugalla
Ilale
Luflisi
Niamanzi
Mamia
Lwegele
Mwese
UGALLA GAME RESERVE
MPANDA NORTH EAST FOREST
UGALLA RIVER FOREST RESERVE
KABUNGU FOREST RESERVE
KATUMBA SETTLEMENT COMPLEX
Kabungu
Nsimbo
MPANDA
Urwira
MSANGIYA FOREST RESERVE
Msenguzi
Kigoma
Rukwa
NYANGA FOREST RESERVE
Inyonga
LAKE TANGANYIKA
Karema
MKAMBA FOREST RESERVE
KATAVI NATIONAL PARK
Kapapa
MULELE HILLS FOREST RESERVE
Mpanda
Sumbawanga
Kabwe
KISI FOREST RESERVE
Usevya
Mbede
Tabora
Mbeya
RUNGWA RIVER FOREST RESERVE
Mamba
Rungwa
Kirando
Mtuzi
Kazu
Mfuzisi
Namanyere
Luamfi
PROPOSED FOREST RESERVE
Chala
Mpanda
Sumbawanga
ZAIRE
Mtowisa
Mbizi
Gua
Kate
Kipande
Luiche
MUVA
MBIZI FOREST RESERVE
Kazumbi
Wampembe
LAKE RUKWA
SUMBAWANGA
Malonse
Mbeya
Rukwa
Sintali
MAKUZANI
Sandulula
Pito
Kala
LOASI RIVER FOREST RESERVE
Msanzi
Kaengesa
Matai
ILEMBA FOREST RESERVE
Kipeta
Kamsamba
Narusi
Mpui
Momba
LAKE TANGANYIKA
Kasanga
KALAMBO FOREST RESERVE
Mwazye
Sopa
Katazi
Mtembwa
Laela
Miangalua
Mkulwe
ZAMBIA
Mwimbi
Ulumi
Saisi
M'Kenya
Kalembe
Nkoswe

Present game reserve
Proposed game reserve
Present national park
Proposed national park
Forest reserve
Forest plantation

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

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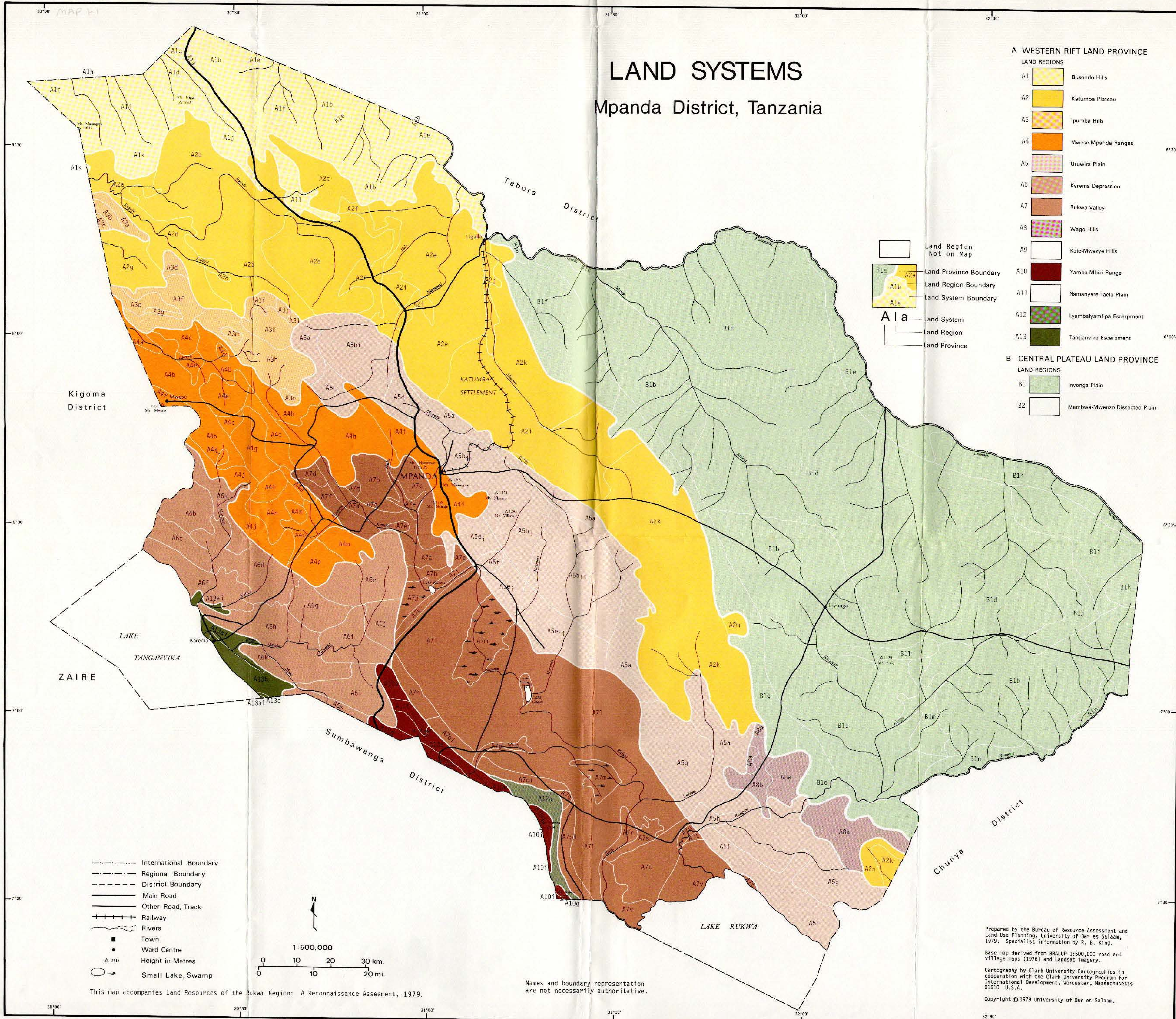

A. WESTERN RIFT LAND PROVINCE

A1 BUSONDO HILLS

A1a Buyenze Plateau
A1b Busongoro Dissected Plateau
A1c Sebagusi Stepped Plateau
A1d Mulofwesi Valley
A1e Bukombe Plateau
A1f Mufombosi Plain
A1g Kosio Dissected Plateau
A1h Mkanga Plateau
A1i Tumbatumba Dissected Plateau
A1j Kifulu Dissected Plateau
A1k Simambula Hills
A1l Masangwa Dissected Plateau

A2 KATUMBA PLATEAU

A2a Middle Rugufu Plain
A2b Upper Rugufu Plain
A2c Sangwa Plain
A2d Middle Rugufu Dissected Plain
A2e Mishamo Plain
A2f Nkondwe Escarpment
A2g Butandula Plain
A2h Lufilisi Gorge
A2i Upper Malambo Plateau
A2j Lower Malambo Valley
A2k Mlala Plateau
A2l Njensi Cuesta
A2m Mahame Escarpment
A2n Lukwati Dissected Plateau

A3 IPUMBA HILLS

A3a Kuba Hills
A3b Kuba Escarpment
A3c Mkuyu Escarpment
A3d Isenga Valleys
A3e Wehasa Ridge
A3f Wehasa Foothills
A3g Upper Igunga Valley
A3h Ushamba Hills
A3i Igalukilo Dissected Plateau
A3j Igalukilo Cuesta
A3k Kasiasilungwe Dissected Plateau
A3l Rugufu Headwaters
A3m Luegele Basin
A3n Ihelembe Basin

A4 MWESE-MPANDA RANGES

A4a Mlofwezi Valley
A4b Munsalya Hills
A4c Upper Katuma Valley
A4d Sambala Basin
A4e Matete Valley
A4f Mwese Dissected Plateau
A4g Mnyangwa Hills
A4h Mpombe Plain with Hills
A4i Kabungu Ranges
A4j Sitwe-Wansisi Hills
A4k Upper Msenguse Basin
A4l Manda Plateau
A4m Lugala Range
A4n Upper Kasegese Valley
A4o Middle Kasegese Valley
A4p Wakole Plain with Hills

A5 URUWIRA PLAIN

A5a Uruwira Piedmont
A5b Mpanda Plain
A5bi climate demarcation
A5bii climate demarcation
A5c Nyomansi Basin
A5d Upper Mpanda Valley
A5e Sitalike Inselberg Plain
A5ei climate demarcation
A5eii climate demarcation
A5f Ndiso Hills
A5g Lukima Plain
A5h Rungwa Mbuga
A5i Sola Plain with Hills

A6 KAREMA DEPRESSION

A6a Msenguse Piedmont
A6b Msenguse Plain
A6c Itoto Plain
A6d Kafisia Plain
A6e Ibulwa Plain
A6f Ugalaba Dissected Plain
A6g Manyo Plain
A6h Ikamba Plain
A6i Nkumba Plain
A6j Kamba Plain
A6k Middle Ifume Valley
A6l Kanyamikae Plain
A6m Kisi Plain

A7 RUKWA VALLEY

A7a Middle Katuma Valley
A7b Mahata Plain
A7c Kalilankulukulu Piedmont
A7d Milala Plain
A7e Mafunzi Floodplain
A7f Kasegese Bajada
A7g Kabwaga Hills
A7h North Kitavi Floodplain
A7i Lower Katuma Valley
A7j South Kitavi Floodplain
A7k Ilyandi Sandy Ridge
A7l Mlele Plain
A7m Ikuu Floodplains
A7n Malambo Piedmont
A7o Muze Piedmont
A7oi climate demarcation
A7oii climate demarcation
A7p Mbede Valley
A7q Maji Moto Pediment
A7r Kavu Valley
A7s Mlila Sandy Ridge
A7t Mlila Plain
A7u Lower Rungwa Valley
A7v Kavu-Rungwa Deltas
A7w Zimba Hills
A7x Kaoze Plain
A7y Ilambo Plain
A7z Momba Valley

A8 WAGO HILLS

A8a Wago Plain with Hills
A8b Tetemia Plain with Hills

A9 KATE-MWAZYE HILLS

A9a Kate - Chocha Hills
A9b Ndeli Inselberg Plain
A9c Ntembwe Plateau
A9d China Escarpment
A9e Kate - Mkowe Inselberg Plain
A9f Pito Piedmont with Hills
A9g Kira - Longo Hills
A9h Chopota Mbuga
A9i Kalimira Hills
A9j Kafukola Plateau
A9k Kana Dissected Plateau
A9l Nazareti - Kanda Hills
A9m Toromela Escarpment
A9n Middle Kalambo Valley
A9o Mbaa Hills
A9p Msambia Plain with Hills
A9q Kapozwa Plain
A9r Kaluko Valley
A9s Chipapa Dissected Plateau
A9t Ninga Plain with Hills
A9u Thombe - Talanda Hills

A10 YAMBA - MBIZI RANGE

A10a Malambo Hills
A10b Malambo Headwaters
A10c Kitumba - Mtozi Trough
A10d Chizi Escarpment
A10e Kipofa Hills
A10f Matala Dissected Plateau
A10g Yamba Range
A10h Mantala Hills
A10i Mkwamba Hills
A10j Chala Mountain
A10k Swaila Hills
A10l Kalulungu Hills
A10m Kizimgu Escarpment
A10n Molo Dissected Plateau
A10o Msanda - Seleli Hills
A10p Mbizi Mountains

A11 NAMANYERE - LAELA PLAIN

A11a Lyazumbi Plain
A11b Namanyere Plain
A11c Katani Plain
A11d Kipande Plain
A11e Sendu Mbuga
A11f Sintali Plain
A11g Upper Luiche Valley
A11h Upper Narusi Valley
A11i Mpui Dissected Plain
A11j Mwimbi-Mwazwe Plain
A11k Lower Narusi Valley
A11l Mshani Plain
A11m Kwera Plain
A11n Lower Narusi Valley
A11o Laela Valley
A11p Mtembwe Valley
A11q Mombo Plain
A11r Upper Saisi Valley
A11s Lower Saisi Valley

A12 LYAMBALYAMFIPA ESCARPMENT

A12a Lyambalyamfipa Escarpment

A13 TANGANYIKA ESCARPMENT

A13a Tanganyika Lacustrine Terraces
A13ai climate demarcation
A13aii climate demarcation
A13b Karema Hills
A13c Kanchui Plain
A13d Kashusha Plain with Hills
A13e Sipala - Isaba Ranges
A13f Monga Plain
A13g Liamba Range
A13h Mazolo Piedmont
A13i Manda Islands
A13j Kipili Hills
A13k Kizumbi Hills
A13l Kausinse Plateau
A13m Kawala Dissected Plateau

B. CENTRAL PLATEAU LAND PROVINCE

B1 INYONGA PLAIN

B1a Ugalla Piedmont
B1b Kassemue Plain
B1c Ugalla Floodplain
B1d Ilunde Plain
B1e Katumbiki Plain
B1f Ugalla Plain
B1g Msima Piedmont
B1h Shama Plain
B1i Galamila Plain
B1j Tabora Plain
B1k Galunko Mbuga
B1l Siwe Hills
B1m Kunga Plain
B1n Middle Rungwa Valley
B1o Lungombe Piedmont

B2 MAMBWE - MWENZO DISSECTED PLAIN

B2a M'Kenya Plain
B2b Jendwe Dissected Plateau

Map 14

LAND POTENTIAL

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania

30°00' 30°30' 31°00' 31°30' 32°00' 32°30'

5°30' 6°00' 6°30' 7°00' 7°30' 8°00' 8°30' 9°00'

Kigoma
Tabora
Rukwa
Mpanda
Sumbawanga
Mbeya
ZAIRE
ZAMBIA
LAKE TANGANYIKA
LAKE RUKWA

MPANDA
SUMBAWANGA
Mwese
Kaliangu
Ntimbo
Uruwira
Inyonga
Karema
Kabwe
Kirando
Namanyere
Chala
Muze
Kate
Kipande
Kazumbi
Wampemba
Sintali
Chapota
Kala
Matai
Mpui
Mwazye
Katazi
Laela
Mlangalua
Mwimbi
Ulumi
M'Kenya
Kalembe
Nkoswe
Mtowisa
Mbizi
Zimba
Sandutula
Miepa
Piro
Kapapa
Rungwa
Mamba
Useyya
Kipeta
Kamsamba
Mkulwe
Gua
Mbeya

S1 Areas of good general agricultural potential
S2 Marginal areas
S2t Marginal areas above 1800m altitude
S3 Very marginal areas
S4 Submarginal areas
N Dry areas containing sodic soils
W Areas with higher water table which could be suitable for rice
F Forest reserve or controlled fuel and wood supply
G Game reserve
P National park

International Boundary
Regional Boundary
District Boundary
Town
Divisional or Ward Center
Other Settlements
Main Road
Other Road, Track
Railway
Rivers
Small Lake, Swamp

N

1 : 1,000,000

0 20 km
0 20 mi

Names and boundary representations are not necessarily authoritative.

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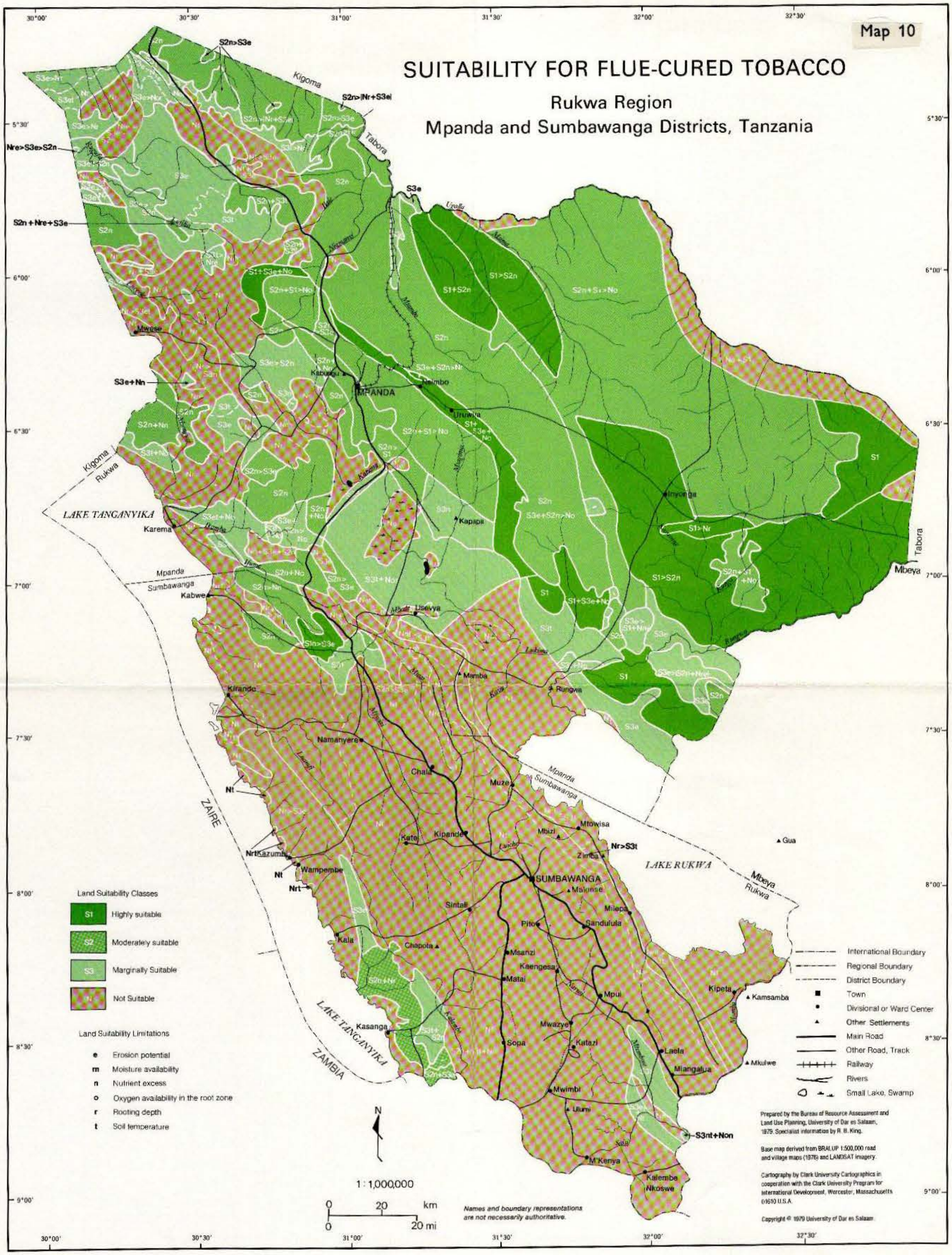
Map 10

SUITABILITY FOR FLUE-CURED TOBACCO

Rukwa Region
Mpanda and Sumbawanga Districts, Tanzania



Prepared by the Bureau of Resource Assessment and Land Use Planning, University of Dar es Salaam, 1979. Specialist information by R. B. King.

Base map derived from BRALUP 1:500,000 road and village maps (1976) and LANDSAT imagery.

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