

Regional Centre for Mapping of Resources for Development {RCMRD}





REGIONAL CENTRE FOR MAPPING OF RESORCES FOR DEVELOPMENT





To be a premier Centre of excellence in the provision of Geo-Information & Information **Technology Applications in Africa & beyond**

Our Mission

To provide quality Geo - Information & allied Information Communication Technology products & services in environmental & resource management for sustainable development in our Member countries & beyond



























III. Major Activities of RCMRD

- A. Advisory services
- **B.** Training
- C. Project implementation
- **D.** Research and Development
- E. Servicing and Maintenance of Surveying and Mapping Equipments
- F. Data and information Dissemination



A. Advisory services

- Development of National Policies and Strategies
- Disaster early warning and management strategies
- Geoinformation Standards
- Project Proposal Development and Implementation







B. Training

i. Basic programmes

- Short -term Training,
- Post-Graduate Courses
- Workshops and Seminars

ii. Applied programmes

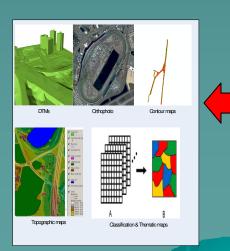
- Environmental impact assessment
- Water Resources Management
- Spatial Database Management
- ·Early warning and disaster management





New Technologies

- Surveys GNSS/GPS
- Digital Production of Maps
- Modern Information System
- Spatial Data Infrastructure



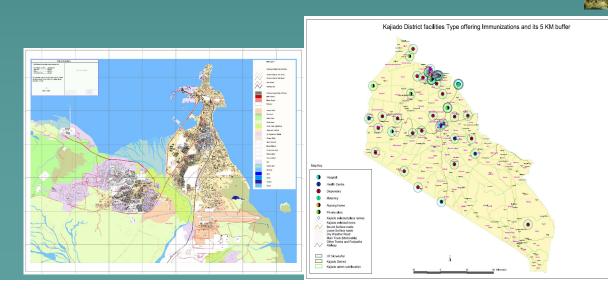


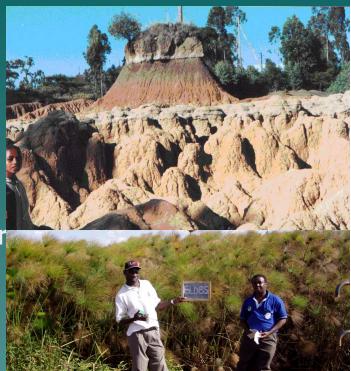


Ī	ID	Field1	Field2	Field3	Field4	Field5	Field6	Field7	
T	1	LR No.	Parcel type	Owner \	alue (mill. Ksh.)	Tax Due ('000 Ksh.)	City	Lease Hold	
Ī	2	712/101	commercial		.5	75	Nairobi	999	
٠	3	209/191	Residential	Ngovi T 1	0.6	106	nairobi	999	
K	(AutoNumber)								
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mowner details: Table									
Ī	ID	Field1	Field2	Field3	Field4	Field5			
	1	Owner ID	Owner name	Dddress	City	Date of Birth			
	2	sj1	Sekalaba J.	632-00618, kasar	ani Nairobi	23/06 1933			
	3	nt2	Ngovi T.	30045, Duruma R	oad Nairobi	06/03/1947			
*	(AutoNumber)		-						
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ī	House Owner	Parcel ID	House No	T					
_	Sekalaba J.	712/101	712/101/1						
0	Ngovi T	209/191	209/191/3						
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C. Project implementation

- Environment
- Natural Resources Management
- Disaster Management
- Infrastructure and Service Provision
- Urban Mapping and Planning
- Good Governance





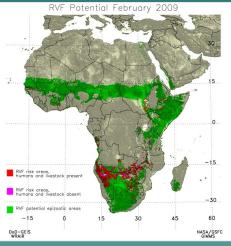


D. Research and Development

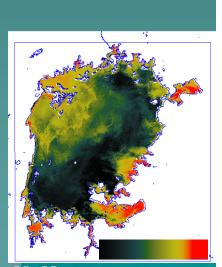
- Flood forecast modeling
- ◆ RVF forecasting
- Groundwater pollution monitoring

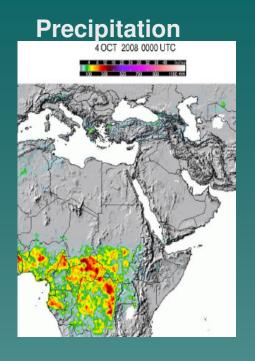
◆ Tsetse and Trypanosomiasis spread simulation

and prediction



- ◆ GMFS: Crop yield estimation
- ◆ TIGER: Water resources management
- ◆ AMESD: Land Degradation and Habitat conservation
- ◆ GARNET-E: Disaster management capacity building
- ◆ AFREF: African Geodetic Reference Frame



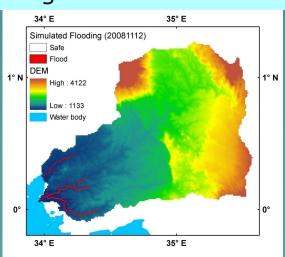


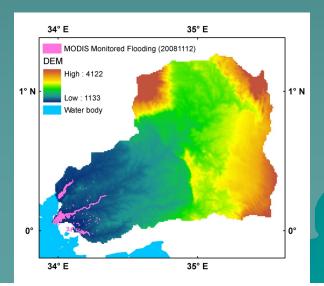


Flood Potential/Forcast



High resolution Model



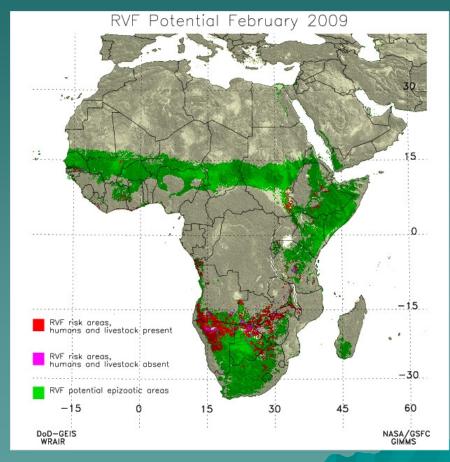


Rift Valley Fever Outbreak Prediction

Rift Valley Fever Risk Map

Sensors: MODIS and AVHRR





E. Service and Maintenance of Equipments



Service and Calibration campaign to member states on request basis

Country	No. Of Instrume nts	Labour Cost Us \$	Replacement Value Us \$
Namibia	24	9,500.00	143,300.00
Botswana	48	24,800.00	204,600.00
Uganda	4	4,800.00	120,000.00
Malawi	23	13,240.00	160,000.00
Tanzania	32	14,300.00	240,400.00
Kenya	34	6,158.00	143,300.00
		72,798.00	1,011,600.00



F. Data and Information Dissemination

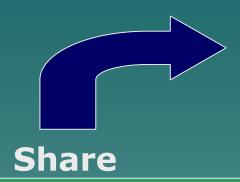




Web-portal Training



SERVIR Platform: User Perspective



- Metadata authoring tools
- Community building tools
- Feedback mechanisms
- Reducing barriers to

sharing

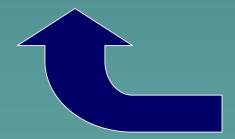


- Managed knowledge base
- Catalog services
- Directory services
- Notification services
- Browse & search function

Web portal
Use / Create



- Ground receiving station
- Data acquisition services
- Data processing services
- Data archive
- Geodata services



- Visualization tools
- Decision support tools
- Forecasts and models
- Support for interoperability
- Support for product use

Data and Information Dissemination

- Geonetwork (FAO Node)
 Data and metadata uploading and dissemination
 Agricultural data
- •WFP Node
 Data on food security vulnerability assessment
- •DDS (Data Dissemination System) MERIS and ASAR data (every six hours)
- ■GEONETCAST

 MSG data and Products such as NDVI, fPAR,

SERVIR-Africa

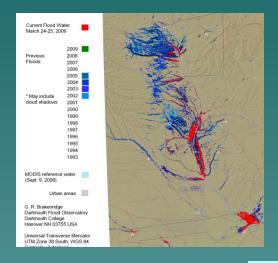
- •Web-Portal Service
- Archiving, dissemination and handling





Flood Mapping

Flood Event Mapping



Before

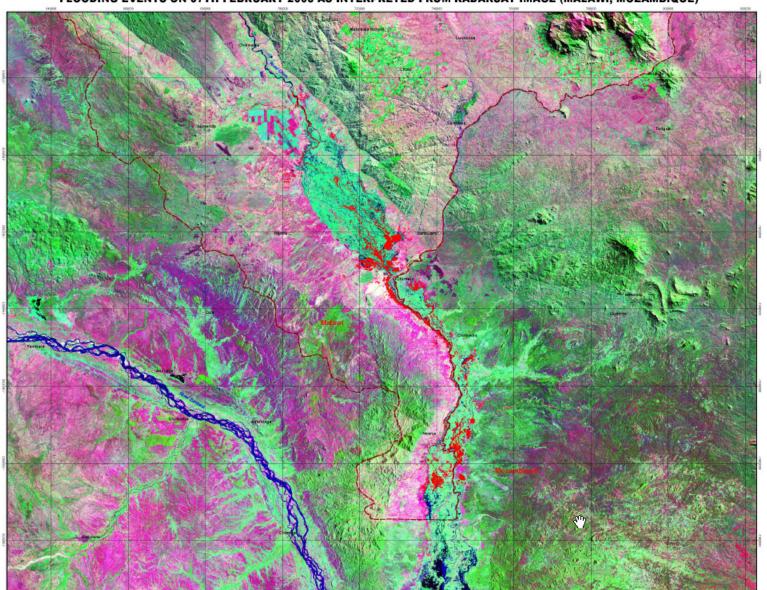


Flooding



International Charter and Disaster Management







CHARTER CALL ID 190

Contact information: rcmrd@rcmrd.org Web: www.rcmrd.org









MAP INFORMATION

This map illustrates satellite- detected flood waters over the affected areas in Malawi. and Mozambique Red areas represent flood affected areas identified on 7th February 2008 Image data source: Radarsat Roads and towns data source: Africa Data Sampler

MAP LEGEND

Bare land Forest

Water bodies

Major Towns Other Towns

Rivers

International Boundary

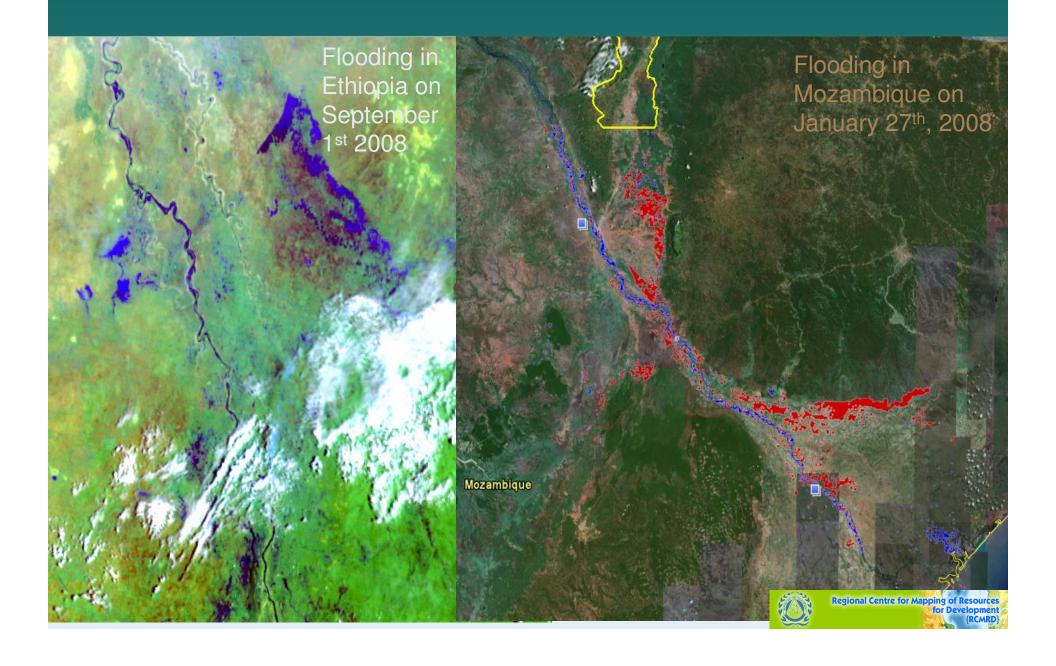
Flooded areas

Map Scale 1:300,000

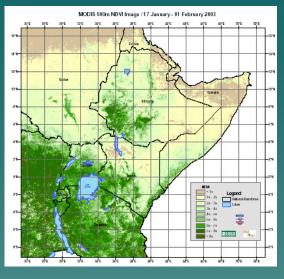
Satellite Data. Radarsat .7th Feb 2008 Date series. Other GIS Data. Africa Data sampler

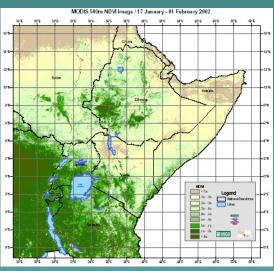
Projection .U.T.M Zone 36

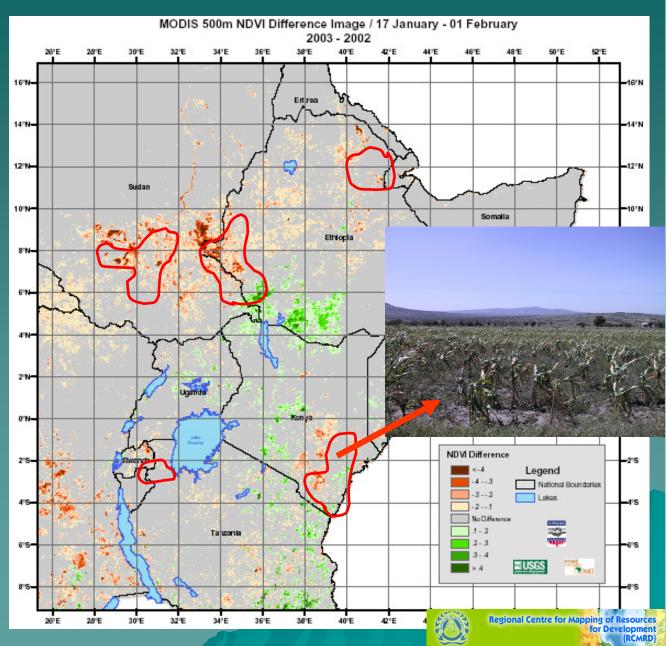
Flood Mapping



Drought Forecasting





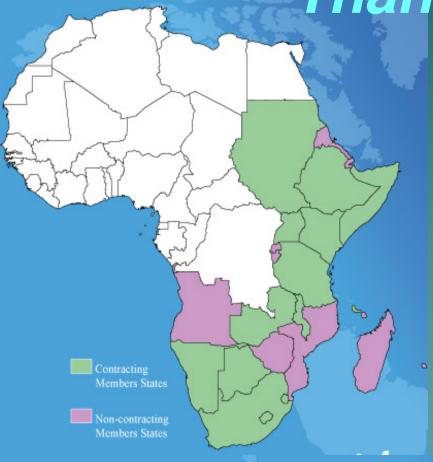




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Thank You!



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