Regional Centre for Mapping of Resources for Development {RCMRD}

Role of RCMRD in Disaster Management in the East & Southern Africa Region

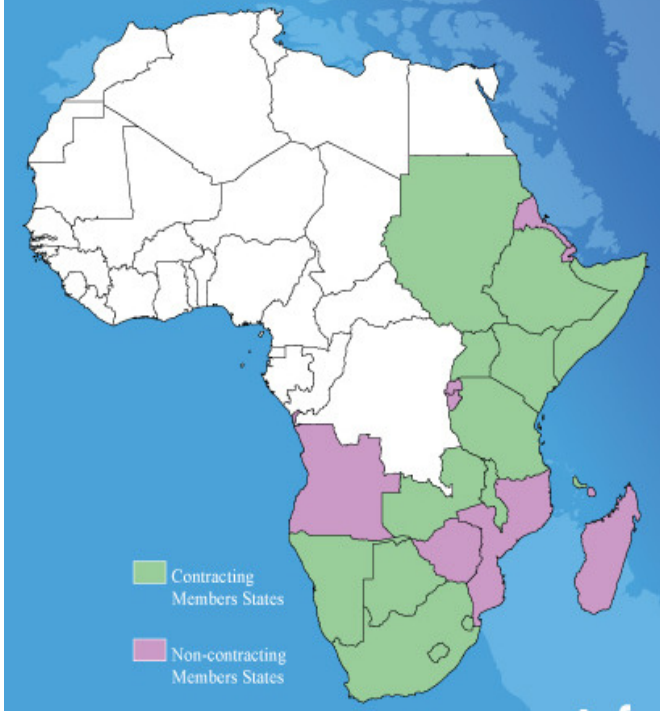
Hussein O. Farah

Kasarani Road, P.O.Box 632-00618 Nairobi, Kenya
E-mail: rcmrd.org website:hptt/www.rcmrd.org

REGIONAL CENTRE FOR MAPPING OF RESORCES FOR DEVELOPMENT

RCMRD

RCMRD



Our Vision

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

II. Major Activities of RCMRD

A. Advisory services

B. Training

C. Project implementation

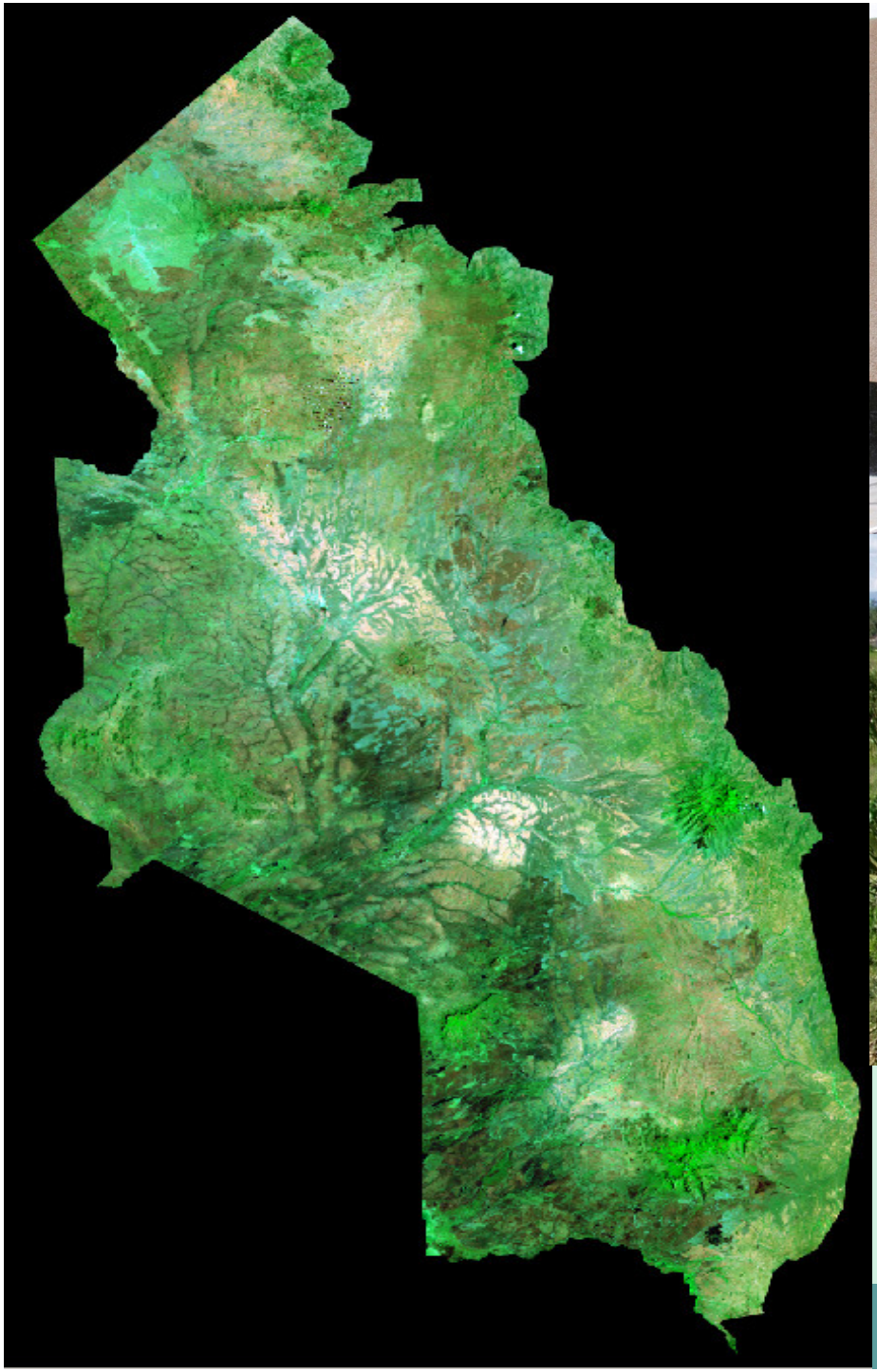
D. Research and Development

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

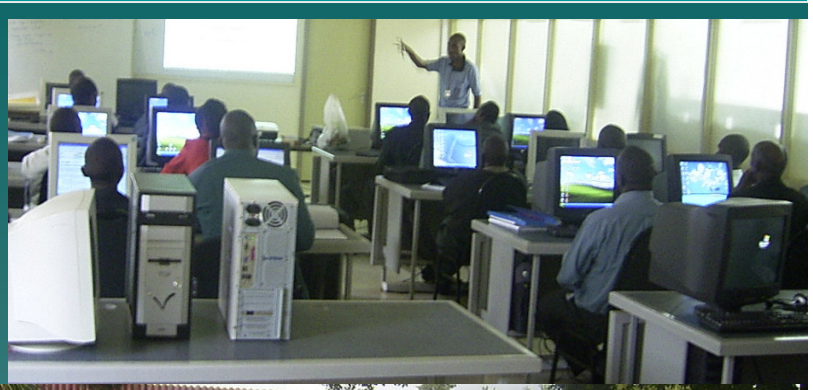


Mapping of Gum Arabica and Aloe in Karamoja Uganda

B. Training

i. Basic programmes

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

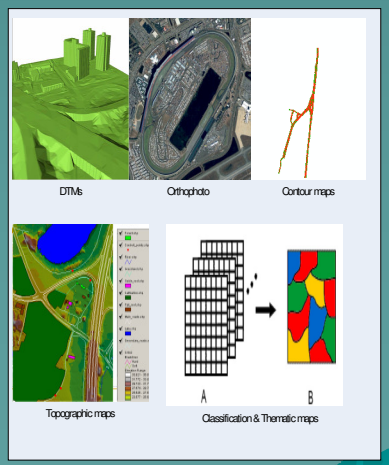


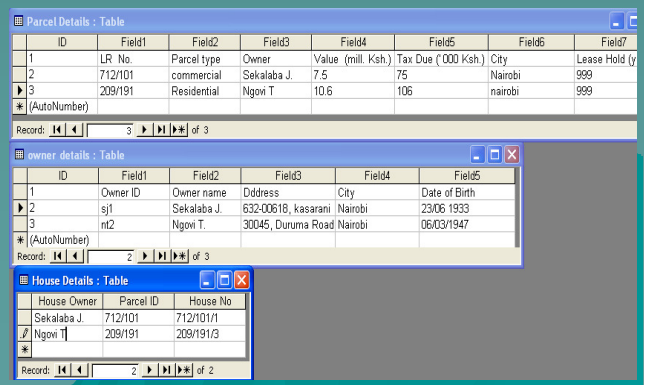
ii. Applied programmes

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

New Technologies

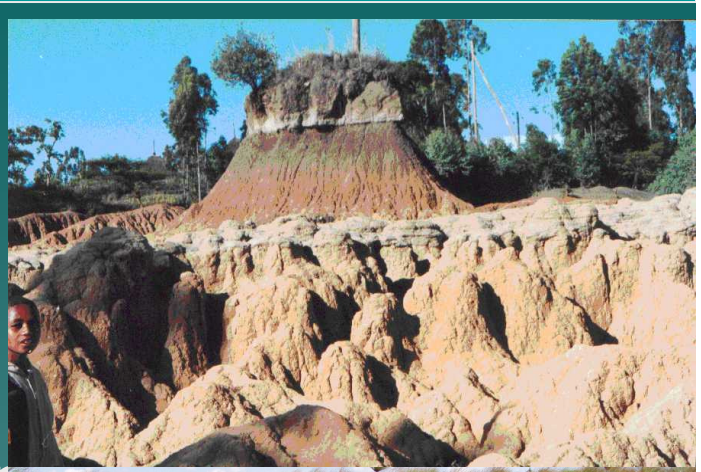
- Surveys - GNSS/GPS
- Digital Production of Maps
- Modern Information System
- Spatial Data Infrastructure

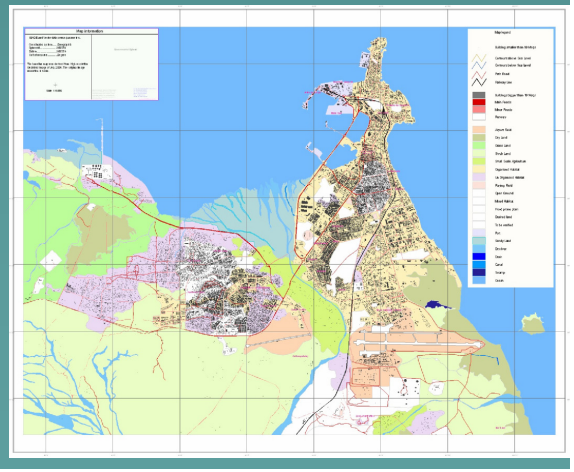


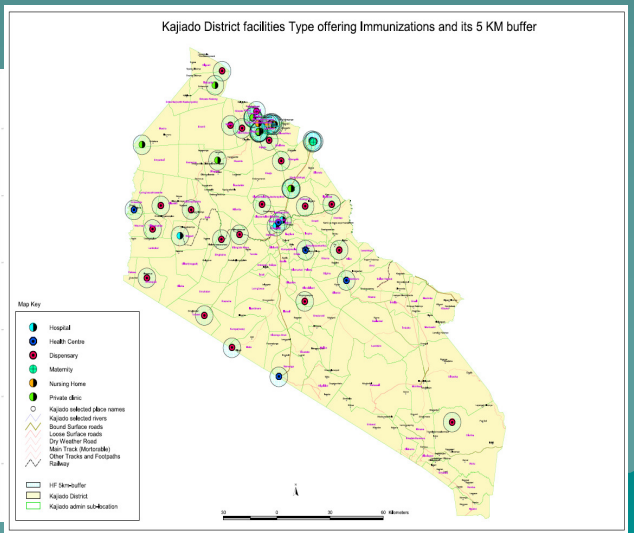


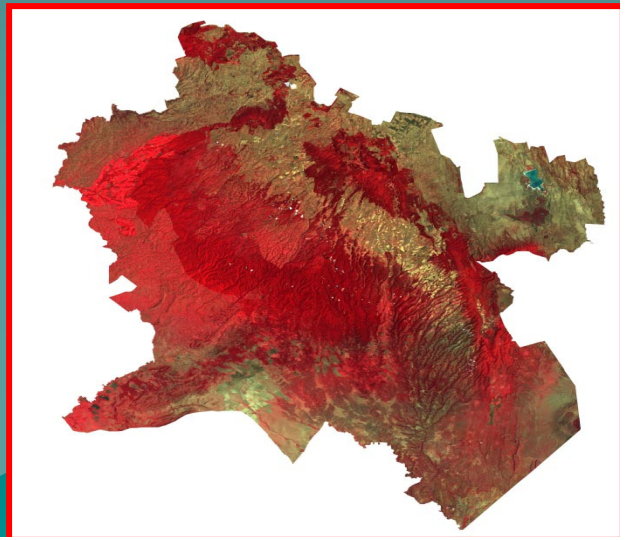
C. Project implementation

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



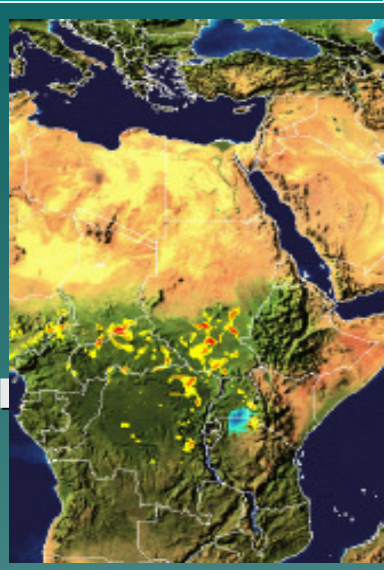


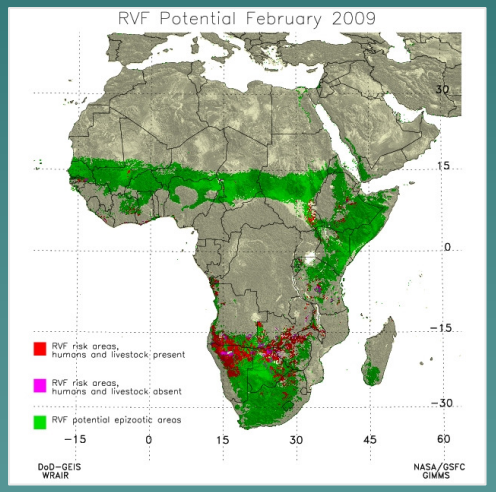


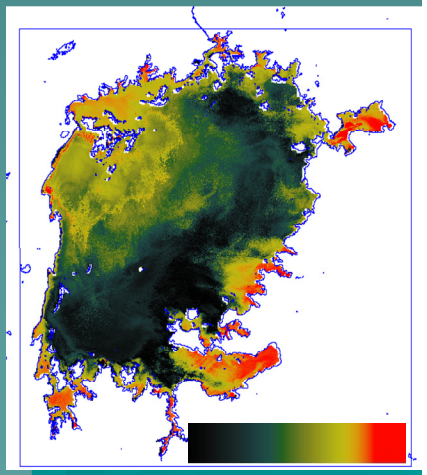


D. Research and Development

- Flood forecast modeling
- RVF forecasting
- Groundwater pollution monitoring
- Tsetse and Trypanosomiasis spread simulation and prediction

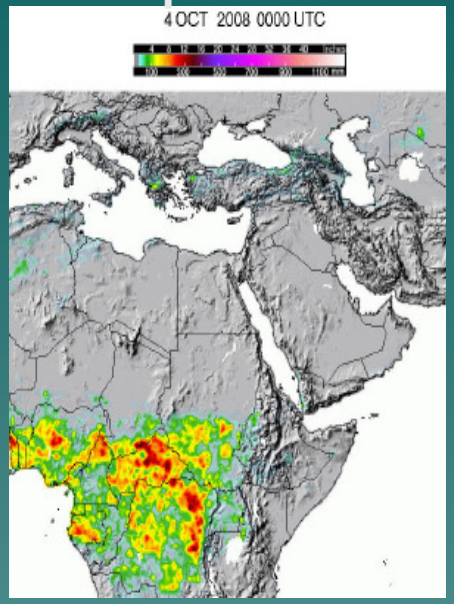






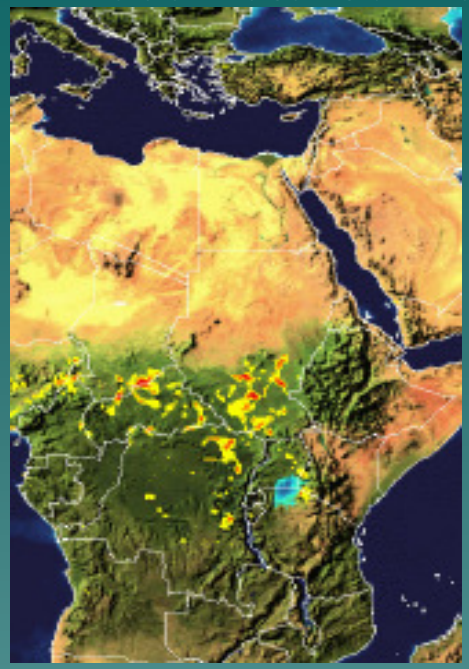
- GMFS: Crop yield estimation
- TIGER: Water resources management
- AMESD: Land Degradation and Habitat conservation
- GARNET-E: Disaster management capacity building
- AFREF: African Geodetic Reference Frame

Precipitation

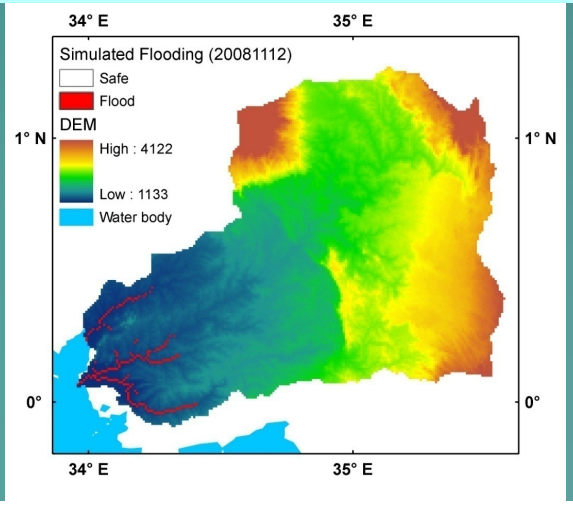


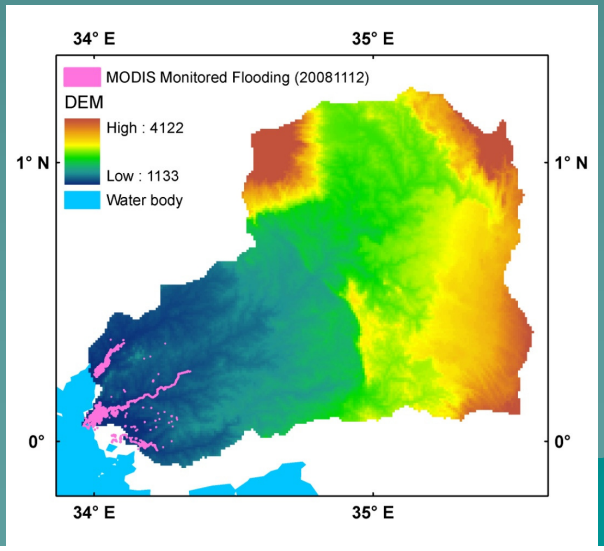
Model

Flood Potential/Forcast



High resolution Model

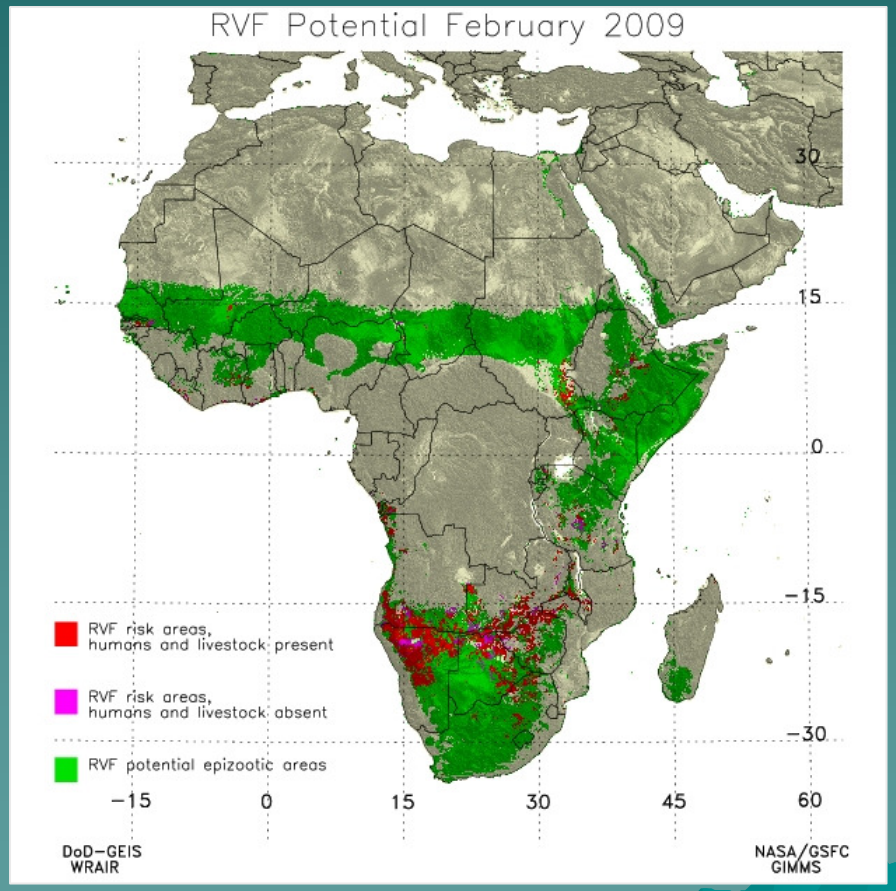




Rift Valley Fever Outbreak Prediction

Rift Valley Fever Risk Map

Sensors: MODIS and AVHRR



E. Service and Maintenance of Equipments

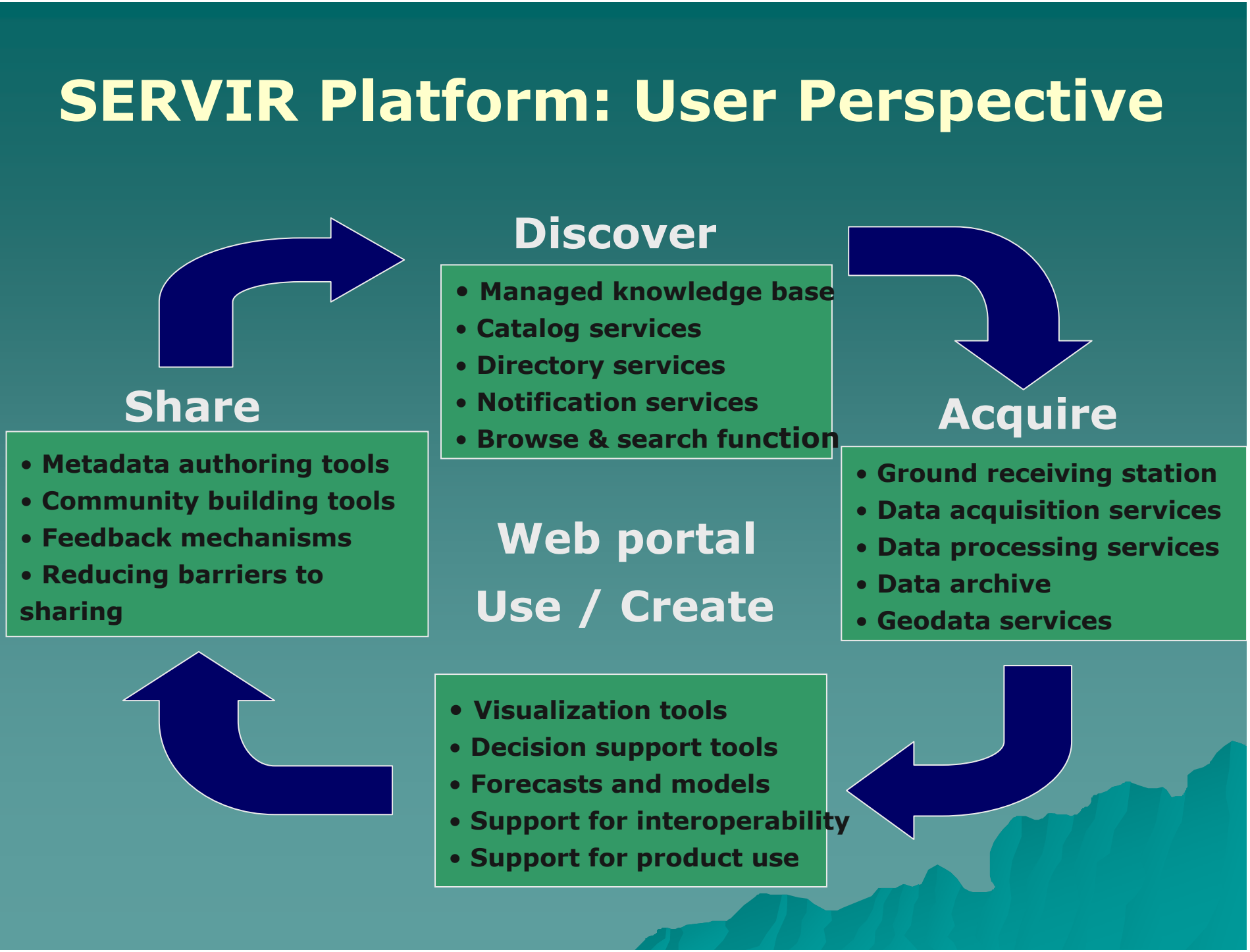
Country	No. Of Instruments	Labour Cost Us $	Replacement Value Us $
Namibia	24	9,500.00	143,300.00
Botswana	48	24,800.00	204,600.00
Uganda	4	4,800.00	120,000.00
Malawi	23	13,240.00	160,000.00
Tanzania	32	14,300.00	240,400.00
Kenya	34	6,158.00	143,300.00
		72,798.00	1,011,600.00

Service and Calibration campaign to member states on request basis

F. Data and Information Dissemination

Web-portal Training

SERVIR Platform: User Perspective

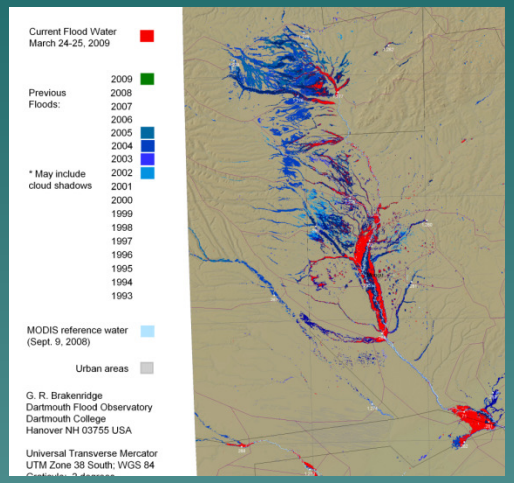


Data and Information Dissemination

- 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

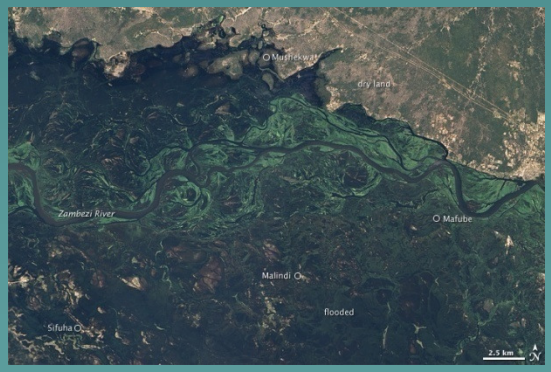
Flood Mapping

Flood Event Mapping



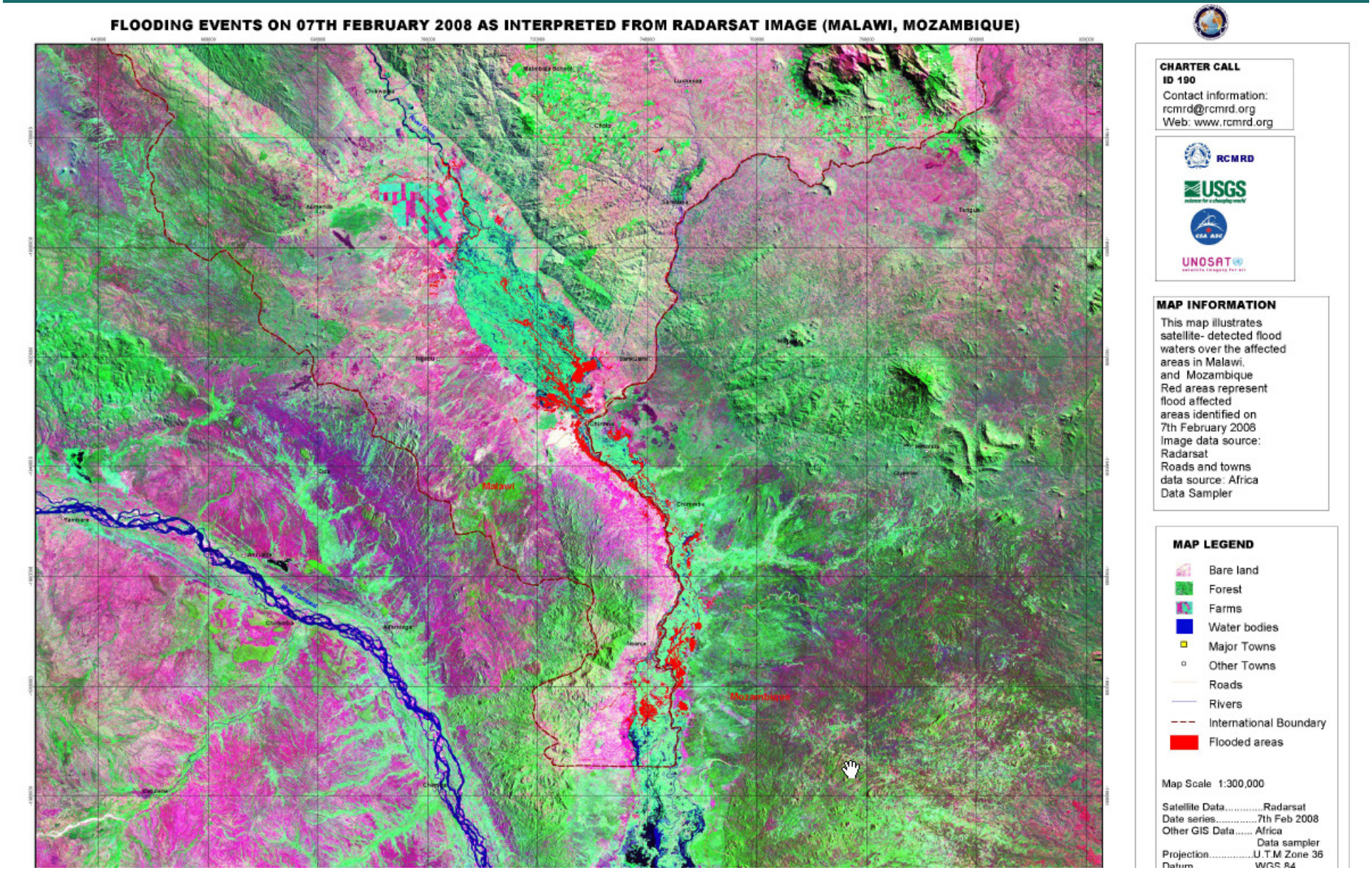
Before

Flooding

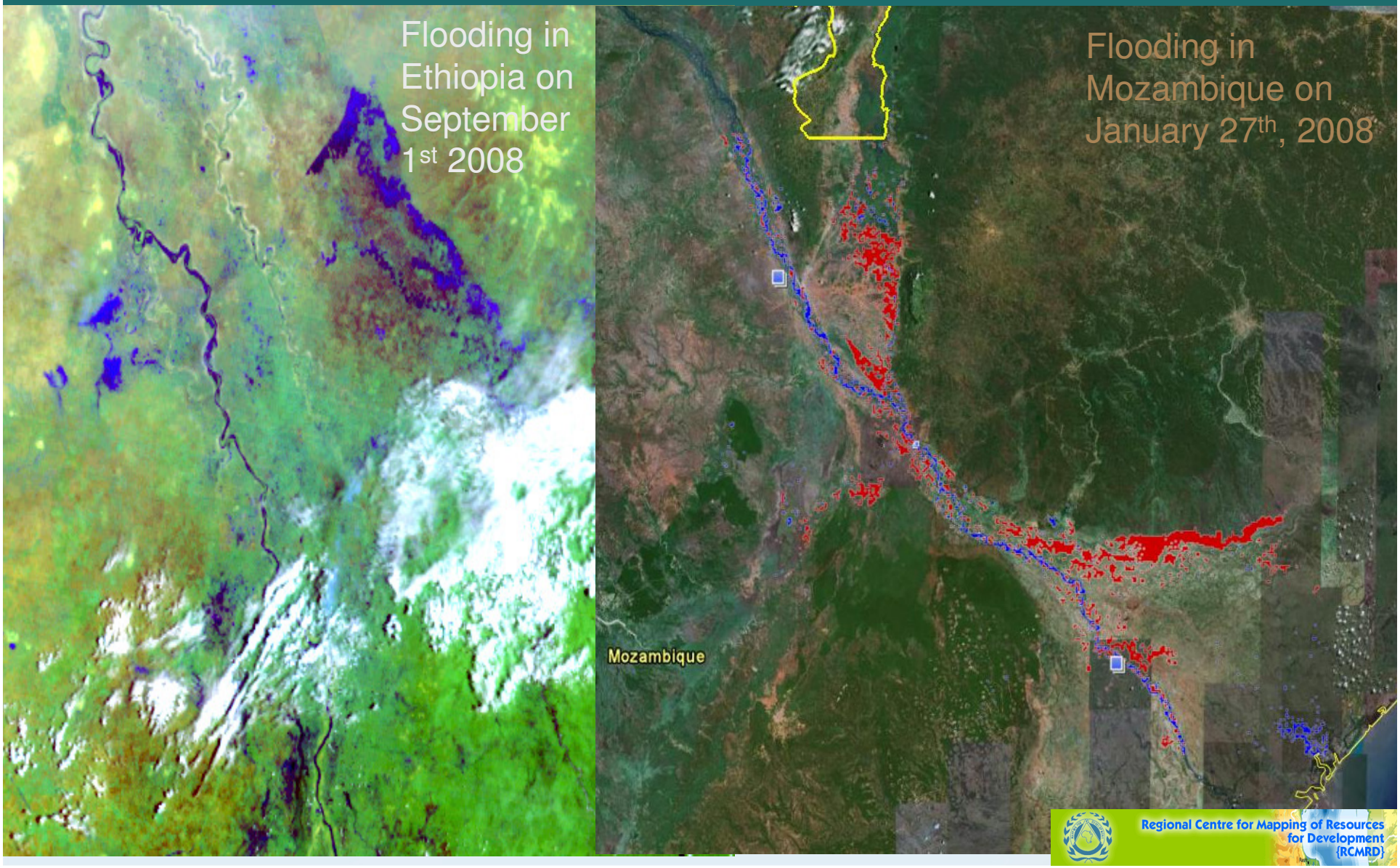


Regional Centre for Mapping of Resources for Development (RCMRD)

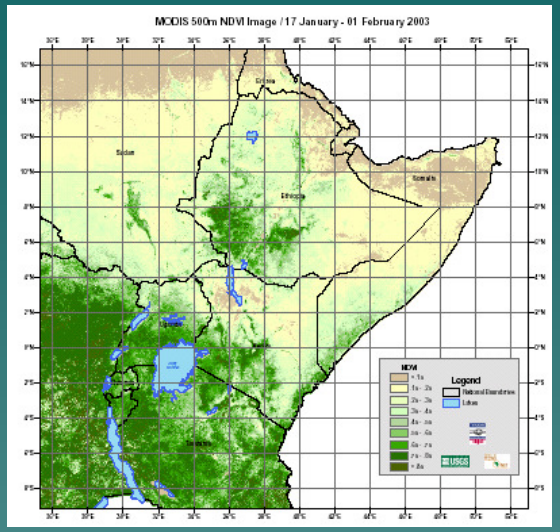
International Charter and Disaster Management

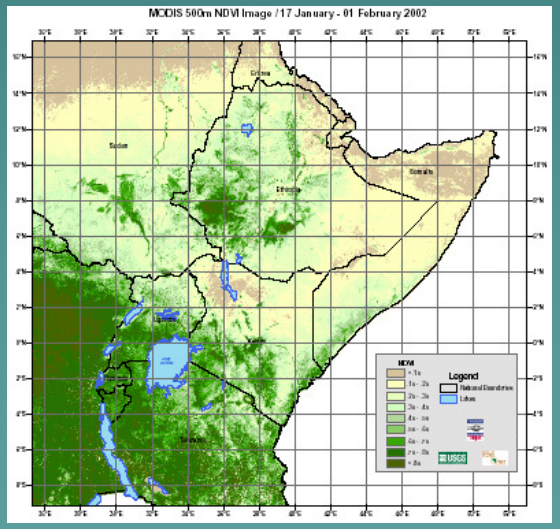


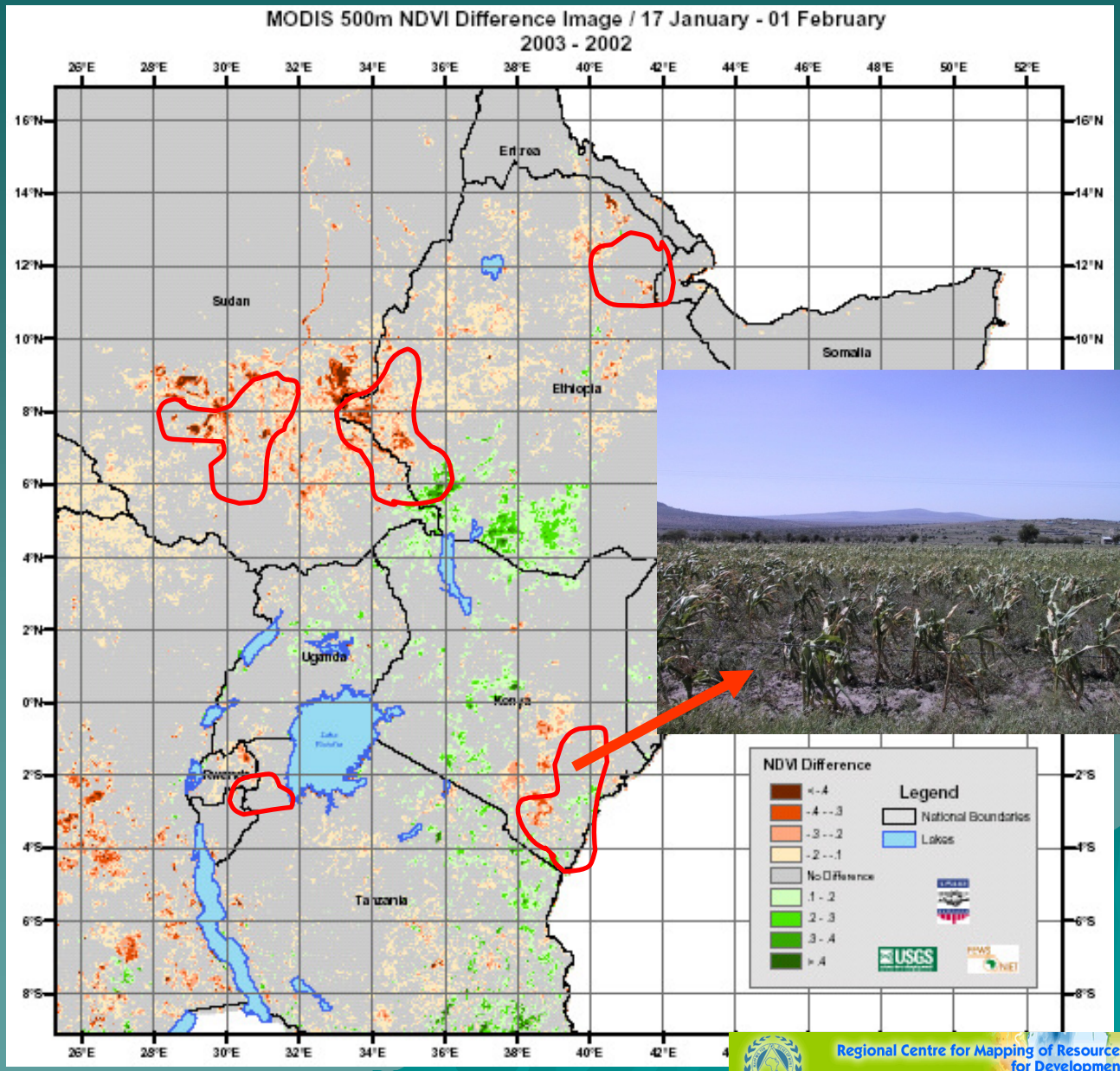
Flood Mapping



Drought Forecasting







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Thank You!

<u>Contact Information</u>:

Director General
RCMRD

rcmrd@rcmrd.org
+254-20-856-1775
+254-20-856-0335

www.rcmrd.org