RCMRD Data Repositories
Outline

- About RCMRD
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- Important Data Resources
About RCMRD

Geographic Coverage:

RCMRD Fact Sheet
- Inter-governmental organization with 20 member states in Eastern and Southern Africa
- Owned and governed by Member states + UNECA
- **Our Mission**: To promote sustainable development through generation, application and dissemination of Geo-Information and allied Information Communication Technology (ICT) services and products in the Member States and beyond.
- **Core areas**: project implementation, capacity building, research and development, Data and information dissemination, advisory services, calibration and servicing of land survey equipment.
Current & Future Regional Projects

Ongoing Projects:

1. **SERVIR Eastern and Southern Africa**
   - This is a USAID funded project, whose main goal is to ensure that African countries have the abilities to apply geospatial technologies in improving their resilience to climate change.
   - RCMRD receives technical support from NASA in addition to joint partnerships with academia institutions in undertaking climate related research i.e. Applied Science Team (AST)

2. **Global Monitoring for Environment and Security (GMES)**
   - This is an EU and ESA initiative that aims at providing reliable and timely services related to environmental and security issues in support of users and public policy maker’s needs
   - RCMRD is currently focusing in 10 countries in the IGAD region

3. **Eastern and Southern Africa Forest Observatory (OFESA)**
   - This platform consists of a website and GIS database platforms that aims at providing a better outlook on the trends and threats of forests in the 4 pilot countries in Eastern and Southern Africa.
   - RCMRD with its joint partners (EU, CIFOR and CIRAD) are planning to extend this effort to cover other countries in Eastern and Southern Africa.
Current & Future Regional Projects

Incoming Projects:

1. Biodiversity and Protected Areas Management (BIOPAMA)
   ✓ This project aims to improve the long-term conservation and sustainable use of natural resources in Africa and other parts of the world.
   ✓ RCMRD is teaming up with IUCN & UNEP-WCMC to improve management and governance of biodiversity and natural resources in Eastern and Southern Africa countries.

2. Network of Excellence on Land Governance in Africa (NELGA) Land Data Repository
   ✓ This project aims to implement a land information portal and data repository to address land tenure and other land administrative issues in Africa, such as cadaster, land conflicts, communal land rights, informal land rights, etc.
   ✓ RCMRD is working with NEPAD though the GIZ to implement this project in 8 pilot countries within its member states.

3. Africa Ecological Futures (AEF)
   ✓ AEF aims at integrating ecological needs when undertaking physical infrastructure in Africa.
   ✓ 3 major landscapes have been piloted for pioneering in undertaking this exercise i.e. Mau Mara Serengeti, Northern Mozambique Channel, and the Greater Virunga.
   ✓ RCMRD is partnering with WWF, AfDB and UNEP-WCMC in implementing this project.
Data Management Approaches

RCMRD Leverage on Both Open Source & Proprietors Software’s e.g.

- RCMRD Geoportal (Geonode)
- Apps Portal (Apps.rcmrd.org)
- RCMRD Open Data (ESRI Open Data)

- Geoserver
- ArcGIS online
- ArcGIS Server
- RCMRD Data Catalogue
- Postgres-PostGIS
- SQL Server
Important Data Resources

RCMRD Geoportal
372 Total Datasets
178 Raster
194 Vector
77 Docs (Reports)
Over 15,000 hits for data access

RCMRD Apps Portal
15 Web Apps in 7 GEOSS themes
Over 20,000 hits for apps access

RCMRD Open Data
160 Layers
Over 5000 hits for data access
Important Data Resources

Some regional web and mobile applications developed for specific needs:

The Eastern Africa Forest observatory provides a better understanding of the trends and threats of forests in Kenya, Uganda, Tanzania and Mozambique.

This web app represents data and information on land cover map for GHG emissions for 9 countries in Eastern and Southern Africa.

This application utilizes the MODIS active fire product to avail active fire information to its users through emails and SMS’s systems.

These mobile apps available through the google store perform several tasks such as invasive species mapping, rangeland mapping, frost validation and land use land cover mapping.
Important Data Resources

For more information on RCMRD and available data resources:

1. RCMRD Website - [http://rcmrd.org](http://rcmrd.org)