



Regional Centre for Mapping of Resources for Development



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**UN-GGCE Geodesy Capacity Development
Workshop for Africa**

19–23 May 2025, Nairobi

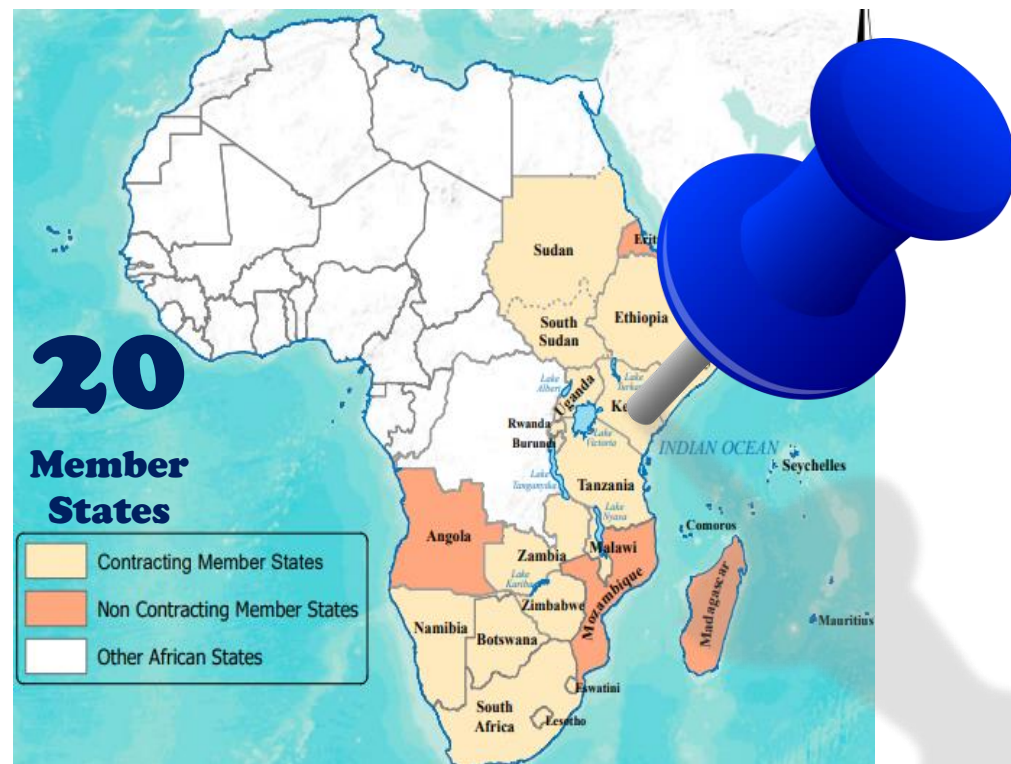
Outline:

- RCMRD Overview
- Vision, Mission, Core mandate
- Key Projects
- Training and Capacity Building Activities
- AFREF Activities
- Contact Information



RCMRD OVERVIEW

- The Regional Centre for Mapping of Resources for Development (RCMRD), is an intergovernmental organization located in Kasarani, Nairobi, Kenya.
- Previously known as Regional Centre for Services in Surveying, Mapping and Remote Sensing was established in Nairobi, Kenya in 1975 under the auspices of the United Nations Economic Commission for Africa (UNECA) and the then Organization of African Unity (OAU) now African Union (AU).
- Has 20 member states covering Eastern and Southern African countries



of Advancing Geospatial Excellence for Sustainable Development



Vision, Mission and Core Mandate

- **Vision:** To be a Premier Centre of Excellence in the provision of geo-information and allied technologies for sustainable development in the member States and other stakeholders.
- **Mission:** To strengthen the member States and our stakeholders' capacity through Generation, Application and Dissemination of Geo-information and Allied Technologies for sustainable development.
- **Core Mandate:**
 - Capacity building
 - Project Implementation
 - Advisory services
 - Servicing and calibration of surveying and mapping equipment
 - Research and
 - Data and information dissemination
- **Thematic Areas:**
 - Agriculture and food security
 - Land Use Change, Land Governance and Urban Development
 - Climate change and Disaster Risk Reduction
 - Ecosystem management and Natural Resource monitoring
 - Cross cutting



Key Projects currently undertaken

- Africa Agriculture Adaptation Atlas (AAAA)
- Regional Centre of Excellence for Biodiversity, Forestry and Seascope
- Strengthening pastoralist livelihoods through effective anticipatory action (PASSAGE)
- Risk Management System For Plant Pests And Diseases
- Hazard Risk Assessment And Mapping
- Soil Fertility Mapping For Kenya.
- Global Monitoring for Environment and Security (GMES) & Africa Project
- Digital Earth Africa (DEA)



Capacity Building Activities - Regional Centre Training Institute (RCTI)

▣ Technical Diploma Courses

- Diploma in Land Surveying
- Diploma in Cartography and GIS
- Diploma in Photogrammetry and Remote Sensing
- Diploma/ Certificate in Information Technology

▣ Technical Certificate Course

- International Computer Driving License (ICDL)
- Graphic Design
- Web Design, Dreamweaver, MS flash, JavaScript
- Programming
- It Security and Cyber Crime
- Data Analysis and Statistical Packages
- Project Management
- Accounting Packages; Quick Books, Sage, Pastel
- Computer Repair and Maintenance
- Digital Skills for Managers
- Certificate In Information Technology
- Certificate In Land Surveying



Capacity Building Activities

Professional Short Courses

- Introduction to Earth Observation (Remote Sensing- RS)/ Digital Image Processing
- Open-Source Tools Data and Applications
- Introduction to Geographic Information System (GIS)
- Introduction to Digital Cartography & GIS Mapping
- Radar & Lidar Remote Sensing
- Applied Remote Sensing & GIS
- Mobile GIS
- CAD Drawings (AutoCAD Civil 3D)
- Digital Photogrammetric Mapping and Terrain Modeling
- Global Navigation Satellite Systems (GNSS) Technologies for Precise Applications
- Global Positioning System and Mobile Mapping for General Applications
- Service, Repair & Adjustment of Opti-Mechanical Surveying Instruments

Tailor-made courses

- **Based on user-specific needs,**
- **Project Implementation** (Training components)
- Conferences and workshops: RCMRD International Conference, AFREF and GNSS workshop)
- **Research and development:** Support curriculum development, Student project supervision, and assessments
- **Youth Mentorship Programs:**, industrial attachment and internships



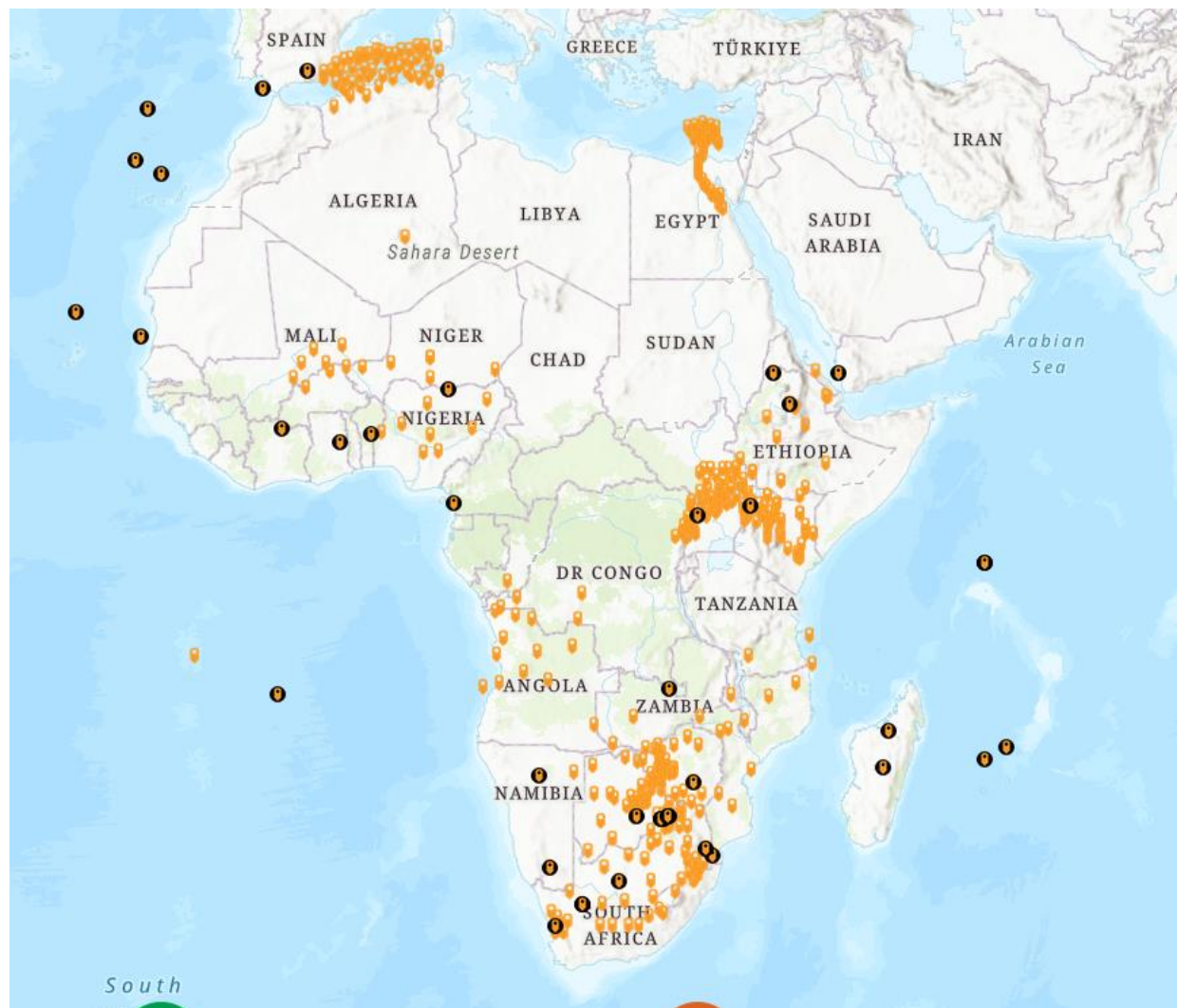
AFREF Activities

- **Annual AFREF Training**
 - At least one nominee from RCMRD's members states sponsored
 - Available for other participants at a fee
 - AFREF 2025 to be held from 17th – 20th June 2025
- **Developing a CORS map**

Progress So Far! Check out the growing network of CORS stations across Africa on the interactive map:

 <https://arcg.is/1K1y8X0>

Thanks to your contributions. Feel free to explore, share, and keep submitting metadata to help complete the picture!



CORS Metadata submission form



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CORS (Continuously Operating Reference Station) Metadata Submission Form

Thank you for participating in the Africa CORS (Continuously Operating Reference Station) Mapping Initiative. This initiative is aimed at creating a unified, comprehensive, and publicly accessible CORS map that will serve as a critical resource for geospatial professionals, researchers, and government agencies across Africa.

As part of this initiative, we are collecting geospatial metadata from CORS stations that support GNSS technologies, such as GPS, GLONASS, Galileo, BeiDou, and others. The data you submit will help us enhance regional coordination, reduce redundancies in infrastructure, and improve the quality and accessibility of GNSS data across the continent.

We understand the sensitivity of sharing CORS station metadata, and we are committed to safeguarding your data. The information you provide will remain confidential and secure. Your submission will only be used for non-commercial, research, and coordination purposes related to this initiative. We do not share your data with third parties without your explicit consent. Ownership of your data remains with you or your organization at all times.

17%

Next

Calling all CORS station owners and stakeholders!

We are building a publicly accessible map of CORS stations across Africa. If you own, manage, or have access to CORS stations, or know someone who does, please help us by submitting the station metadata using the link below:

 <https://www.research.net/r/AfricaCORS>

Your contribution will help improve GNSS infrastructure coordination and visibility across the continent. All data will be kept confidential, used for non-commercial and research purposes only, and ownership remains with you or your organization.

Feel free to forward this to relevant contacts!



Contact Details

- Address: Regional Centre For Mapping Complex, Kasarani Road, P. O. Box 632 Kasarani Mwiki Rd, Nairobi
Phone: 020 2680748/ +254 723 786161
- Website: <http://rcmrd.org>
- Email: rcmrd@rcmrd.org
- <https://www.youtube.com/channel/UCBsaCz6wecwG53l1S-lwtyA>
- <https://x.com/rcmrd>
- <https://www.linkedin.com/company/regional-centre-for-mapping-of-resources-for-development-rcmrd-/>





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**Thank
You**