RCMRD Welcomes New Director General

Dr. Emmanuel Nkurunziza officially assumed office as the Director General of RCMRD in February, 2017. Dr. Nkurunziza joined RCMRD from the Rwanda Natural Resources Authority (RNRA), where he was the Director General and Registrar of Land Titles for over eight years. RNRA is an authority that leads the management of natural resources which is composed of land, water, forests, mines and geology. Dr. Nkurunziza is a holder of Doctor of Philosophy (Ph.D.), Public Policy from the University of Birmingham, Master of Science (M.Sc.), Urban Planning from Cardiff University, and Bachelor of Science (B.Sc.), Surveying from Makerere University. Dr. Nkurunziza brings to RCMRD extensive management and technical expertise.

In his first meeting with the staff, Dr. Nkurunziza said he was looking forward to working at RCMRD and was counting on everyone to provide the support required in realizing the Centre's objectives and goals. On the other hand, Dr. Hussein Farah, the immediate Director General thanked the staff for their cooperation and hardwork during his tenure at RCMRD.

RCMRD Explores Areas of Collaboration with International Union for Conservation of Nature

On 1st March, 2017 RCMRD held a meeting with the International Union for Conservation of Nature (IUCN) to explore areas of collaboration between the two organizations at its premises in Nairobi, Kenya. The meeting focused on the structure of both organizations, mode of operation, membership, experiences, global initiatives and ongoing activities in the Eastern and Southern Africa region.
The need for a collaborative approach was deemed important because both RCMRD and IUCN are operating in similar areas. The two organizations agreed to sign an MOU for collaboration in training activities and project implementation.

Common areas of interest identified included marine and coastal management, threatened species, invasive species, governance of natural resources, forest monitoring, climate change, landscape restoration, and RCMRD’s strategic partners within Member States.

RCMRD was represented by Dr. Emmanuel Nkurunziza (Director General), Degelo Sendabo (Remote Sensing Officer) and Josphat Makan-ga (Senior Photogrametist).

IUCN delegates included Luther Anukur (Regional Director), Robert Wild (Technical Director, People and Landscape Programme) Kaori Yasuda (Strategic Partnership and Programme Development Coordinator) and Edmund Barrow (Director, Global Ecosystem Management Programme).

RCMRD signed an MOU with the African Advanced Level Training Institute (AFRALTI).

The two Institutions firmly convinced of the need to reinforce their relations and cooperation in encouraging the adaptation and use of Earth Observation and ICT Technology in Africa, agreed to work in capacity building programs in Geo-information and ICT.

The cooperation also includes Research and Development and exchange of staff and sharing of GIS and Earth observation data sets.

AFRALTI is a regional institution which provides capacity building programs to the ICT industry in Africa with the aim of harnessing the socio-economic development of African Countries.

IUCN is the universal authority on the status of the natural world and the measures needed to safeguard it.

**RCMRD signs MOU with African Advanced Level Training Institute**

RCMRD and ICPAC Sign MOU and Agreement

RCMRD and the IGAD Climate Prediction & Applications Centre (ICPAC) have signed a memorandum of understanding and an agreement in a ceremony that was witnessed by the Deputy Office Chief for Environment at USAID’s Kenya and East Africa Mission, Brad Arsenault, and the USAID Program Management Specialist, Chihenyo Kangara.

Speaking during the ceremony held at RCMRD in Nairobi, Kenya, former Director General-RCMRD, Dr. Hussein Farah emphasized the importance of collaboration in climate related research, as well as in timely dissemination of findings.

Dr. Farah underscored the important role that RCMRD and ICPAC are playing in informing climate resilience and adaptation mechanisms in eastern and southern Africa.

He appreciated USAID and NASA for supporting RCMRD through the SERVIR Project, a partnership...
The Director-ICPAC, Dr. Guleid Artan reiterated the importance of the partnership that RCMRD and ICPAC have had for over 20 years. He thanked USAID, NASA and RCMRD for supporting ICPAC’s climate related research and monitoring activities through the SERVIR Project. He noted that ICPAC would leverage this support on other on-going programs to ensure that the institution delivered high quality science based products that support resilience to climate change.

Brad Arsenault, in his remarks noted the important role that RCMRD and ICPAC are playing in addressing climate resilience and adaptation in the region.

He emphasized that partnerships are a key message of the USAID mission statement, and thus congratulated RCMRD and ICPAC for further exploring areas of building synergies through collaborations.

He encouraged both institutions to ensure that the work outlined under the MOU and agreement documents would yield fruits in the near future. Read full story here

Hon. Isaiah Chol, Chairperson, National Bureau of Statistics (NBS), Office of the President, Government of South Sudan officially launched the South Sudan Geoportal (ssdgeoportal.org) in Juba, South Sudan on February 28, 2017.

RCMRD partnered with the South Sudan NBS to develop and implement the geoportal. The geoportal is a platform that facilitates creation, sharing and use of geospatial data.

As a component of the National Spatial Data Infrastructure (NSDI), the goal of the geoportal is to enhance the capacity of South Sudan government agencies and non-governmental institutions in collaborative geospatial data creation, sharing and management.

While opening the meeting, Hon. Chol thanked RCMRD for the efforts made in placing NBS data and information in a more palatable and discoverable format and tool, while reiterating support to the ideals of RCMRD.

In his remarks, Byron Anangwe on behalf of the Director General, RCMRD, Dr. Emmanuel Nkurunziza, reaffirmed RCMRD’s technical support not only to NBS/S. Sudan but to all the Member States in developing appropriate solutions to address challenges faced. Full story here

The effects of drought in Kenya have been felt in many ways, ranging from pastoralist-wildlife conflicts, loss of lives, crop failure to water rationing. Kenya’s national government declared the drought in 23 counties a national disaster on 10th February, 2017.

RCMRD sort to assess the impact of the raging drought to Ndakaini dam using space technology. By using Sentinel 2 satellite data, Faith Mithieu and James Mumina analysed two sets of images, February 2016 and December 2016 to assess how the water in the dam has dwindled in the last 12 months.

Sentinel 2 images at a resolution of 10m were digitized and a comparison under each area was made. Full story here
SWAAT Team Hands Over Project to RCMRD


The objective of the workshop was to transfer skills required to RCMRD/SERVIR E&SA staff for the implementation of a similar system in Tanzania being facilitated by the SERVIR Water Africa Arizona Team (SWAAT) team from the University of Arizona.

Speaking during the opening ceremony, Dr. Robinson Mugo, SERVIR-E&SA Project Manager asserted that decision-makers need tools and data for predicting floods and droughts as well as for monitoring the availability of water in support of food security, livelihoods, energy, and more, and that they also need information to plan for future impacts of a changing climate.

The training was on the methodologies for stream flow forecasting using a multi-model approach. This approach is used in flood and drought monitoring and forecasting for regions with generally low data availability and capacity is possible based on readily available satellite products and modeling technologies.

The SWAAT team provides near real-time streamflow forecasts for several pilot basins in Africa and their main sub-watersheds, as well as displays of recent rainfall over the basins as captured by different satellite precipitation products. Read more

RCMRD Conducts Training on Tracking Landscape Changes in Uganda


In the three days training, the participants were trained on reference data collection using TimeSync.

TimeSync is an application that allows researchers and managers to characterize and quantify disturbances and landscape changes by facilitating pixel level interpretation of Landsat time series stacks of imagery.

TimeSync was created in response to research and management needs for time series visualization tools, fuelled by rapid global change affecting ecosystems, major advances in remote sensing technologies and theory, and increased availability and use of remotely sensed imagery and data products (Cohen et al., 2010).

TimeSync can be used to characterize the quality of land cover map products derived from Landsat time series; derive independent statistical estimates of change with uncertainty, including type of change over time and rates of change; validate change maps; and explore the value of Landsat time series for understanding and visualizing change on the earth’s surface. Read full story here
Land Degradation Training in South Sudan

RCMRD in conjunction with the IGAD Climate Prediction and Applications Centre (ICPAC) are implementing the Monitoring for Environment and Security in Africa (MESA) project.

In an effort to build regional capacity in land degradation assessment, natural habitat conservation and forest monitoring, the two institutions conducted a five-day training on land degradation in Juba, South Sudan from 6-10 February, 2017.

The participants were drawn from various ministries and institutions in South Sudan. The land degradation training was on assessing the extent and severity of land degradation in South Sudan. The participants were trained on the processing chain used to derive the land degradation product.

RCMRD Convenes Stakeholders to address Data Sharing in Kenya

RCMRD held a forum to engage stakeholders on data sharing challenges, best practices and recommendations.

The meeting was organized by RCMRD’s SERVIR Eastern and Southern Africa (SERVIR-ESA) project. Participants at the breakfast meeting that brought together scholars and scientists from various organizations concurred that there are numerous challenges to scientific data sharing among scientists and the public in Kenyan and most revolve around dissemination. The meeting resolved to increase demand for data sharing by demystifying data as well as getting champions for open data including RCMRD and SERVIR-ESA. Read more here

Participants during the capacity building and reference data collection activity in Entebbe, Uganda.

Training on land degradation in Juba, South Sudan.

Emily Adams giving her views during the forum to engage stakeholders on data sharing challenges, best practices and recommendations.
RCMRD Attends 5th International Conference on Climate Services in Innovation and Capacity Building.

RCMRD Participates in OFESA Project Kick-off Workshop.

RCMRD Hosts Training Workshop on the Ensemble Framework for Flash Flood Forecasting.

RCMRD Holds Data Sensitization Workshop at Jaramogi Oginga Odinga University of Science and Technology.

RCMRD Hosts Training to Enhance Water Resources Management.

RCMRD Holds Global Land Cover and Bamboo Mapping Training.