**TECHNICAL WORKSHOP ON APPLIED USE OF EARTH OBSERVATION DATA IN ADDRESSING REDUCING EMISSIONS FROM DEFORESTATION AND FOREST DEGRADATION (REDD+); MONITORING, REPORTING & VERIFICATION (MRV);**

**12TH TO 14TH JUNE 2013**

**AT RCMRD, NAIROBI, KENYA**

**CONCEPT NOTE**

“Reducing Emissions from Deforestation and Forest Degradation (REDD+)” is an effort to create a financial value for the carbon stored in forests, offering incentives for developing countries to reduce carbon emissions from forested lands and to invest in a sustainable low-carbon development supported by the United Nations (<http://www.un-redd.org>). Several African countries evaluated REDD+ as a valuable mechanism for sustainable development and have already established initial schemes at forestry related national ministries.

A major limitation for a successful and sustainable implementation of REDD+ in many African countries is the lack of technical capacity required to establish a REDD readiness program.

Strengthening these efforts is necessary to enable national authorities to

(1) Improve existing capabilities to carry out IPCC compliant carbon stock assessments and;

(2) Support the implementation of a national REDD+ Measurement, Reporting & Verification (MRV) system.

RapidEye imagery has been successfully used globally in the scope of many REDD initiatives

(<http://www.rapideye.com/upload/RE_REDD.pdf>)

**WORKSHOP ACTIVITIES**

During a short training course the students will be introduced to RapidEye imagery and how to use this data for operational REDD+ reporting with open source remote sensing software.

The course will cover the following topics and practical work will be carried out in the open source package QuantumGIS (QGIS) with related plug-ins.

**Day 1**

1. The RapidEye satellite constellation and relevant image products.

2. Geo-referencing RapidEye imagery and co-registering images.

3. Converting Radiances to Atmosphere Reflectance for change detection and multi-temporal comparison using vegetation indexes

4. Calculation of relevant vegetation indices for REDD+ monitoring.

**Day 2**

5. Collection and display of field data for the generation of spectral signatures and accuracy assessment.

6. Image classification & Accuracy assessment.

7. Map production and reporting.

**Day 3**

8. Field (Aberdare Forest Complex) visit to validate the generated forest map product

**WORKSHOP ORGANISERS**

RCMRD; Hussein Farah, Byron Anangwe (banangwe@rcmrd.org)

RapidEye; Clemens Stromeyer (stromeyer@rapideye.com)

**TARGET PARTICIPANTS**

Mainly drawn from National Mapping Agencies, National Forest Agencies and UN-REDD National Secretariats

**VENUE:**

RCMRD Nairobi, Kenya

Please reach Byron Anangwe (banangwe@rcmrd.org), RCMRD for additional information or interest to participate.