



Capacity Building Activities in Africa

WGCapD-9
March 10th - 12th, 2020
Naledzani Mudau

Who is offering Earth observation training

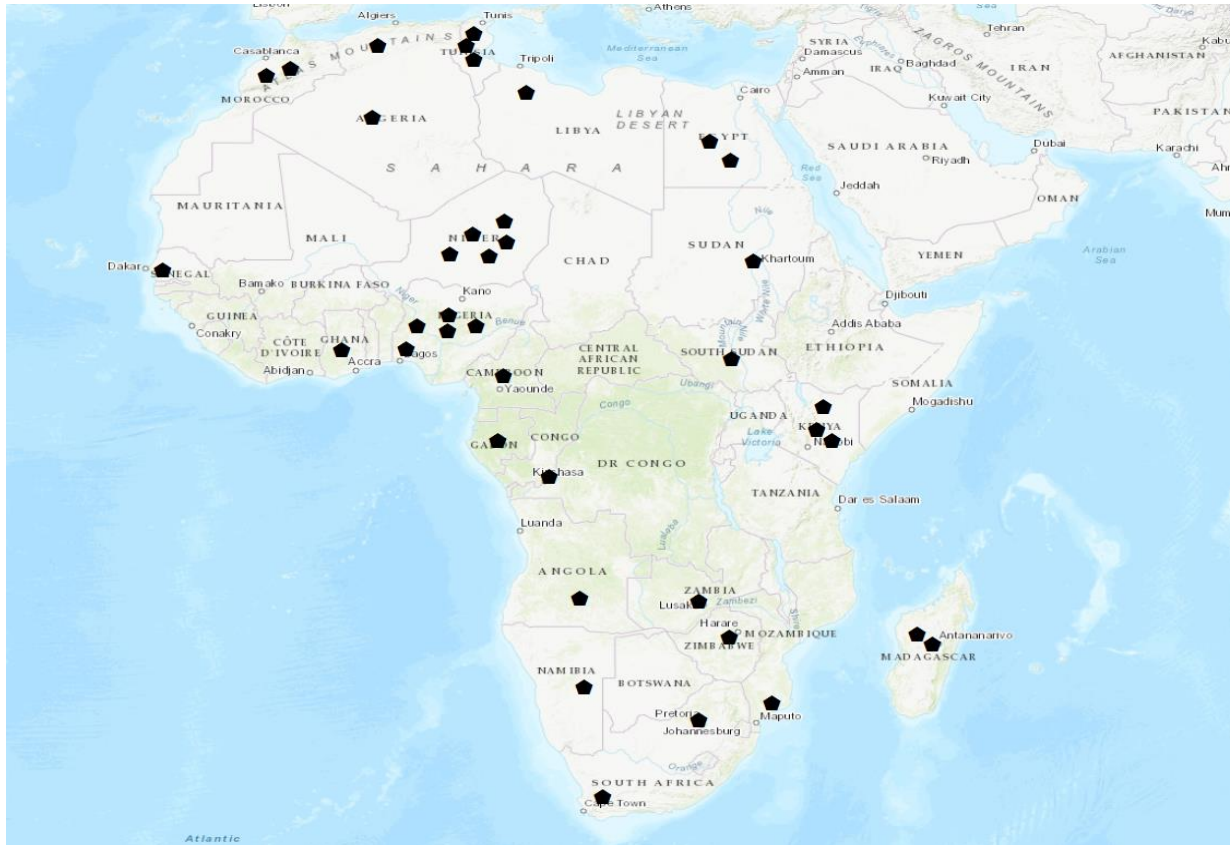
- ✓ National and regional institutions
 - ✓ Specialized training
 - ✓ Introduction to remote sensing
 - ✓ Meteorological applications
- ✓ Academic institutions
 - ✓ Introduction to remote sensing
- ✓ UN organizations
 - ✓ Specialized topics
 - ✓ SDGs
- ✓ Collaborative projects
 - ✓ Specialized Pre-conferences

Training Areas (Including requirements)

- ✓ Clouding processing
- ✓ Analysis Ready Data
- ✓ Data cube
- ✓ SAR
- ✓ SDGs
- ✓ Introduction to remote sensing for end users

Earth Observation Capacity Building Institutions

39 national and regional organizations
12 WMO Training Centers



African Regional Centre for Space Science and Technology Education - in French Language, CRASTE-LF, and University of Rabat in Morocco

Training on applications of **cloud computing** on Earth observation services

11-15 November 2019

Participants: 35 experts from 25 African Space institutions
Organizer : African Union Commission



South African National Space Agency

Introduction to Remote Sensing for Statistics South Africa

20-22 August 2019

Organized by: SANSA

Analysis Ready Data Training by PCI

30 September - 04 October 2019



Participants: Industry, government departments and research institutions

Analysis Ready Data Training by PCI

03-05 March 2020

Participants: SANSA Staff

South African National Space Agency

EO4SDGs Awareness
19-21 February 2020

Organizer: SANSA

Participants; Statistical offices:

Malawi, eSwatini, Namibia,
Botswana, Tanzania,
Seychelles



Need for collaboration,
partnership and focused training
on the use of Earth observation
data for SDG reporting, Data cube,
image processing

Organizer: SANSA and
AfriGEO

Topic: Land Degradation

Participants; professionals

South African National Space Agency

- ❖ Coordination and Promotion and of the use of EO in SDG reporting and spatial planning:

SANSA, Line Departments, UN HABITAT, ..

The South African National Space Agency (SANSA) wins the 2019 GEO SDG Award



- ❖ Disaster Management Workshops

SANSA and National Disaster Management Centre

Three workshops: Zambia, Nigeria and Ivory Coast 2018-2019

Participants: 38 countries; statistical offices; data providers,
line ministries

City definition?



UNESCO

Remote Sensing for Water Resources Management in Africa International Training Course

January 2019



35 participants attended from a variety of institutions and African countries,

Topics: introduction to remote sensing, instruction on Digital Elevation Models (DEM) and hydrological analysis, land cover change analysis, multispectral indices, satellite precipitation estimation and introduction to networks and systems for integrated system for global real-time satellite precipitation observation

GMES & AFRICA

Ocean remote sensing

Zanzibar, Tanzania: 12-20 November 2019



African Center of Excellence for Water Management, Addis Ababa
University

December 23-28, 2019

Remote Sensing and GIS in Hydrology and Water Resource Management
and Development



Introduction to remote Sensing



UNIVERSITEIT•STELLENBOSCH•UNIVERSITY
jou kennisvenoot • your knowledge partner

Sentrum vir Geografiese Analise • Centre for Geographical Analysis

Introduction to remote sensing short course

This introductory course is aimed at **beginners** who need instruction in basic remote sensing functions such as data acquisition, pre-processing and classification. Upon completion, participants will understand the basic principles of earth observation, the electromagnetic spectrum, digital data, image resolution, satellite systems, pre-processing techniques and classification and will apply these concepts in ENVI.

Course structure

Option1: Four days (Attend-only option) @ R6000

Students who are not interested in being assessed may choose to **register for the first 4 days only** (i.e. only attend the lectures and exercises and not write the exam or complete any assignments). Students choosing this option will receive a certificate of attendance.

Option2: Five days (including exam and two week assessment component) @ R8000

Includes a **5-day period** during which students attend contact sessions (i.e. lectures and practical exercises) and write tests. Contact sessions run from 9h00-17h00 daily from Monday to Thursday. An exam is taken on the afternoon of day 5 (Friday).

Assignments are completed in the student's own time (during the weeks following the contact period) and are submitted electronically.

The **course fees are R8000** per student (R6000 if registering for the first 4 days only). Standard course fees are reduced by 20% for Stellenbosch University students and staff members.

Course categories: Professional Courses ▾

Search courses: Go

GIS

Introduction to Geographic Information Systems (GIS)



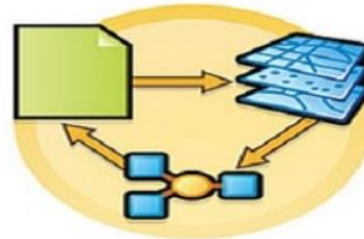
Access



Introduction to Remote Sensing



Access



Managing Data in Distributed Systems and Information Exchange in Mapping using ArcGIS Server

Access



Relational Database Management Systems (Advanced Ms Access & Ms SQL Server)

Access

PRE-Conference training

4th AfriGEO Symposium

Theme

**Earth Observation
for Evidence-Based
Decision Making**

13 to 16 August 2019
RCMRD, Nairobi Kenya
<http://ric2019-rcmr.org>

AfricaGIS 2019
Innovations in Geospatial Technologies for Achieving
Sustainable Development Goals in Africa
Kigali Conference and Exhibition Village, Rwanda
18 - 22 November 2019

- Official launch of DE Africa
- SAR
- Google Earth Engine



Opportunities

- Gather info planned activities
- Gap Analysis
- Online training opportunities
- Collaboration, partnership and possible coordination



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA

Ndi a livhuwa

Thank you

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