



# INSTITUTE FOR METEOROLOGICAL TRAINING AND RESEARCH (IMTR)

## WORLD METEOROLOGICAL ORGANIZATION (WMO) REGIONAL TRAINING CENTER (RTC), NAIROBI



IMTR is a branch of the Kenya Meteorological Department responsible for Education, Training, Research and Documentation.

Established in 1964. It was designated World Meteorological Organization (WMO) Regional Training Centre (RTC) in 1965. It is a Centre of Excellence in training Remote Sensing and Satellite Meteorology.

### Mission:

*To train manpower at all levels for sustainable development while maintaining excellent standards in Education, Training and Research in the fields of Meteorology, Climate and Water*

### Vision:

*A world class scientific institution that provides Education, Training and Research in Meteorology, Operational Hydrology and related fields in the Region*

### ACHIEVEMENTS IN THE COURSE OFFERED IN THE LAST FIVE YEARS

#### MESA and PUMA Courses

- \* 26 Workshop in MESA System application Course, MESA System Administration in Depth and PUMA System Administration in Depth
- \* A total of 383 Participants from 49 countries were trained
- \* Hosted 7 French MESA/ PUMA workshops that were to be held in Niamey

#### EISAC Courses

- \* Developed and offered annual EUMETSAT IMTR Satellite Applications Courses (EISAC) for the last five years. Each having an Online and face to face Phases
- \* Online Phase - 6 weeks and Face to face - 1 week
- \* Over 80 Participants from all of Africa trained

#### GIS/ Remote Sensing Course

- \* Specialized GIS/Remote Sensing Course 2014 - 1 Month
- \* 6 Participants from Burundi trained

#### Operational Meteorology Courses

- \* The following courses have a unit of GIS and Remote Sensing
  - Middle Meteorological Technician Course (MMTC) - 18 Months
    - ♦ MMTC 10, MMTC 11, MMTC 12, MMTC 13, MMTC 14 and MMTC 15
    - ♦ Over 65 Participants from all of Africa trained
  - Advanced Meteorological Technician Course (AMTC) - 2 Years
    - ♦ AMTC 14, AMTC 15, AMTC 16, AMTC 17 and AMTC 18
    - ♦ Over 50 Participants from all of Africa trained
  - Operation Training Course (OTC) in Meteorology - 6 Months
    - ♦ OTC 28, OTC 29, OTC 30 and OTC 31
    - ♦ Over 84 Participants from all of Africa trained

### OTHER ACHIEVEMENTS

- \* Development of satellite training modules (ASMET 8, ASMET 9 and ASMET 11)
- \* Maintained PUMA systems for Rwanda and Djibouti meteorological agencies
- \* Participated in exchange program for staff at EUMETSAT in Germany.
- \* Developed digitized and gridded data for the region under SCP-EA project
- \* Training participants in the ASMET modules



Well-equipped ASMET computer lab at IMTR



### Challenges

- \* Limited Course Sponsorship.
- \* Understaffing in NHMSs causes staff not to attend courses.
- \* Travel restriction in some countries.
- \* Inadequate resources for staff to do online courses in some NMHSs
- \* Limited access to satellite application software.
- \* Language barrier

### Future Plans

- \* Increase number of online courses.
- \* Develop more tailor made courses suitable for specific countries
- \* Build training capacity in GIS and Remote Sensing in the region
- \* Create more awareness in the use of satellite data in operations, research and development

### Facilities at IMTR

- \* 2 computer laboratories fully networked and connected to the Internet.
- \* 10 classrooms each with seating capacity of 20 persons
- \* Conference room with seating capacity of 100 persons
- \* A National Meteorological Library with 15,000 volumes of books and journals
- \* Faculty and administrative offices
- \* Hostel with furnished self-contained rooms with a capacity of 60 students

### Areas of Collaboration

- \* Infrastructural development
- \* Continuous human resource development
- \* Collaborative research
- \* Trainer exchange programs
- \* Online course/Module development
- \* Training

### Institutional Collaboration

IMTR Continues to collaborate with the following institution

- \* IGAD Climate Prediction and Applications Centre (ICPAC)
- \* University of Nairobi
- \* South Eastern Kenya University (SEKU)
- \* Coffee Research Foundation (CRF)
- \* RCMRD Regional Centre
- \* Kenya Agricultural Research Institute (KARLO)
- \* World Meteorological Organization (WMO)
- \* UK Met. Office, WISER
- \* UNEP
- \* Other WMO-RTCs
- \* UNESCO-IOC
- \* EUMETSAT
- \* COMET
- \* JRC



National Meteorological Library

### Contacts:

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KENYA METEOROLOGICAL DEPARTMENT

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