



WMO-CGMS Virtual Laboratory
for Education and Training in Satellite Meteorology

ACTIVITY REPORT

Period: September 2011 to August 2012
Centre of Excellence: Kenya

GENERAL INFORMATION ABOUT THE CENTRE OF EXCELLENCE (CoE) AND THE DEVELOPMENT OF VLAB TRAINING ACTIVITIES

What were the major achievements of your CoE during this reporting period?

1. Trained 176 participants in long, medium and short courses
2. Trained one Instructor on Delivery of On-line courses.
3. Bought a server and established a Virtual Library where all training materials will be uploaded.
4. Utilized Computer Aided Learning and MOODLE in delivery of EUMETSAT satellite Applications Course.

What were the main difficulties of your CoE during this reporting period?

1. Lack of funding in member countries to send students for training.
2. Understaffing in most NMHs and hence releasing students for long courses was not possible.
3. Limited and unstable Internet Connectivity

Who provides support in the production of your training materials (e.g. produced by own trainers, support from Satellite Operators, IT staff, University researchers and lecturers, etc)?

1. IMTR staff prepare their own training materials using WMO journals, manuals and other sources as references.
2. IMTR Researchers develop case studies and other materials.

Is any kind of Learning Management System (e.g. Moodle, Blackboard, etc) used by your CoE to conduct training activities?

MOODLE is used in the provision of distant and computer aided learning in some courses, e.g. EUMETSAT Satellite Application Course (ESAC), Statistics in Applied Climatology (SIAC).

Is any kind of Online Conferencing System (e.g. Saba Centra, Blackboard Collaborate, GoToWebinar, etc) used by your CoE to conduct training activities?

1. Teleconferencing has been used in some of the trainings such as EUMETSAT Satellite Application Course (ESAC), as well as meetings.
2. IMTR is currently developing courses which will use Online Conferencing. These will commence in 2013.

What kind of training is provided to the trainers of your CoE and at what frequency?

1. Induction for new trainers – when the need arises
2. Training of trainers- once a year
3. Curriculum development- once in two years

4. Research methods- once a year
5. Communication and Presentation skills- once a year

Can you suggest ways for the VLab (including CoEs, Supporting Satellite Agencies, Partner Programmes, WMO Space Programme, VLab Co-chairs and TSO) to provide better support to your CoE?

1. Training of Instructors in development of online courses
2. Training of Trainers in online delivery of courses.
3. Regular seminars on emerging technologies in virtual learning.
4. Attachment of Instructors to specialised centres for three (3) months or so to gain experience in emerging issues.

Please use the table below to list any training materials you may have developed over this reporting period:

Title of training material	Type of resource	Availability of resource	Submitted to ESRC
Curriculum for Advanced Meteorological Technician Course (AMTC)	Curriculum	Available	N/A
Curriculum for Advanced Meteorological Forecasters Course (AMFC)	Curriculum	Available	N/A
Curriculum for Operational Training Course (OTC)	Curriculum	Available	N/A
ASMET 6 Training Module	Web based	Available	N/A

Is your CoE working closely together with the CoE's sponsoring Satellite Operator/Agency in VLab training activities? Can you suggest ways to improve this collaboration?

IMTR/WMO-RTC, in collaboration with EUMETSAT, organizes the annual EUMETSAT Satellite Application Course (ESAC) for English-speaking Africa. The course is hosted by IMTR/WMO-RTC.

This collaboration can be strengthened by:

1. Working together to train IMTR/WMO-RTC staff in the development and delivery of online courses for the IMTR/WMO-RTC'S area of responsibility
2. Working together to launch online courses in satellite applications
3. Sponsorship of benchmarking exchanges with other CoEs.
4. Evaluation of the impacts of the training on the outputs at the NMHs

Please use this space for additional remarks you may wish to make relating to the delivery of training by your CoE.



Please complete the table in the next page with information about the training events organised by your CoE, as part of VLab activities, during this reporting period.

Alternatively, you may export the information you have entered in the Online Calendar of Events to Excel and just add the post-event information needed (i.e. number of participants and Country of origin of participants). You can then copy and paste your own table to the last page of this report.

Date	Title	Location	WMO region	Host	Type	Language	Number of trainees	Country of origin of trainees
20-24 February 2012	Capacity Building Training for Water and Energy	Nairobi	RA1	IMTR	Partly online Course	English	9	Burundi, Ethiopia, Kenya, Rwanda, Somalia, Tanzania, Uganda.
26 – 30 March 2012	E-Station System Administration	Nairobi	RA1	IMTR/WMO-RTC	Online	English	9	Burundi, Djibouti, Eritrea, Ethiopia Kenya, Rwanda, , Sudan, , Uganda
6-7 August 2012	EUMETSAT Satellite Applications Course (ESAC)	Nairobi	RA1	IMTR	Partly online Course	English	22	Egypt Gambia, Kenya, Lesotho Madagascar, Mauritius, Mozambique Namibia, Nigeria, Tanzania, Togo, Uganda, Rwanda, Seychelles, Zambia, Zimbabwe
12-27th August 2012	Capacity Building for Climate Scientists on Statistical Modelling	Nairobi	RA1	IMTR	Partly online Course	English	9	Burundi, Djibouti, Ethiopia, Kenya, South Sudan, Sudan, Uganda, Rwanda and Tanzania
19-27th August 2012	Dynamical Modelling	Nairobi	RA1	IMTR	Partly Online Course	English	9	Burundi, Djibouti, Ethiopia, Kenya, South Sudan, Sudan, Uganda, Rwanda and Tanzania