



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

## **ACTIVITY REPORT**

Period: September 2012 to December 2013  
Centre of Excellence: China - Beijing

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

### **1) What were the major achievements of your CoE during this reporting period?**

- Three international training courses
  - 2012.9.22-28 Specialized Course For BMKG Technicians
  - 2012.10.22-11.01 6<sup>th</sup> International Training Course on Satellite Met
  - 2013.9.3-13 International Training Course on Satellite Met
- Three domestic training classes
  - Thirteen training courses for Pre-post Forecaster
  - Three training courses for junior forecasters and senior forecasters
  - The training course for the application of the satellite image in weather forecaster in 2013
- Two teaching materials
  - Explanation to the satellite image
  - A new generation of Polar Orbiting Meteorological Satellite FY-3 and its application
- Discussion and cooperation with CMA National Satellite Meteorological Centre
- Building a simple satellite image database

### **2) What were the main difficulties of your CoE during this reporting period?**

No.

### **3) 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)?**

- The trainers in CMATC who gave most training courses for the trainees.
- The staff from CMA National Satellite Meteorological Centre
- Some professors from universities who gave the courses on application of satellite image in weather forecast for forecasters and the trainers in CMA used the teaching book from them about the basic theory about meteorological satellite.

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

Meteorological distance education and resource sharing platform (Independent development)

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

Yes. We have developed and been using "CMATC Synchronous Classroom" which is a web video conference combines real-time desktop sharing with video conferencing and phone conferencing, therefore, everyone sees the same thing while you talk. Schedule meetings in advance or start an instant inline meeting and invite people to join you by email or IM, you can easily use this web video

conference to host world-wide regular meeting, cooperate with your customers, partners and colleagues, give online training, demonstrate your work and do technical support.

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

The trainers received the training courses about the application of satellite image in weather forecast and the usage about the platform of SMART and SWAP:

- The training courses on meteorological satellite held in the summer school of Nanjing in June 2013.
- The training course on SMART and SWAP platform in April 2013.

#### 7) 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?

- Sharing the teaching materials.
- Organizing the training courses about the new technique, such as Conferencing System.

#### 8) 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 (e.g. text book, video, recorded presentation, Moodle course, webcast, PowerPoint slides)	Availability of resource (e.g. open educational resource <sup>1</sup> , institutional use only)	Submitted to ESRC (Yes/No)
The retrieval of precipitation over ocean with AMSU-B data	PowerPoint slides	institutional use	No
Satellite atmospheric composition observation and its Application on environment and climate	PowerPoint slides	institutional use	No
Status on Global Satellite Atmospheric Composition Observation	PowerPoint slides	institutional use	No
Progress on Satellite Atmospheric Composition Observation in China	PowerPoint slides	institutional use	No
Progress in Greenhouse Gas Exploration Program of China	PowerPoint slides	institutional use	No
On the Application of Meteorological Satellite to Space Weather	PowerPoint slides	institutional use	No
The satellite methods for tropical cyclone analyses	PowerPoint slides	institutional use	No
Cloud Parameters Retrieval	PowerPoint slides	institutional use	No
Atmospheric Sounding from Satellite	PowerPoint slides	institutional use	No
Wild fire monitoring by meteorological satellite	PowerPoint slides	institutional use	No
Application of Drought monitoring using meteorological satellite data	PowerPoint slides	institutional use	No

<sup>1</sup> Please also indicate if the Creative Commons License was applied to the resource.



Remote Sensing of Volcanic Eruption	PowerPoint slides	institutional use	No
The introduction to the features of comma, leaf and frontal cloud	PowerPoint slides	institutional use	No
Explanation to the satellite image	Book	institutional use	No
A new generation of Polar Orbiting Meteorological Satellite FY-3 and its application	Video	Institutional use	No

**9) 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?**

- Yes, CMATC worked closely together with CMA National Satellite Meteorological Centre in Vlab training activities.
- During the next period, we planned to do more discussion with the specialist from CMA National Meteorological Satellite Centre and other colleges.

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

**11) The next page presents a table containing all training events entered by this CoE in the VLab Online Calendar of Events during this reporting period. Please complete the table with information about the number of trainees and Country of origin of trainees that attended the events. If the CoE had conducted other training events considered as part of their VLab activities, that for some reason were not submitted to the Online Calendar of Events, please add them to the table.**

Date	Title	Location	WMO region	Host	Type	Language	Number of trainees	Country of origin of trainees
2012/09/22 - 2012/09/28	Specialized Course For BMKG Technicians	Beijing, China	II	CMA training centre, Beijing, China	Classroom course	English	8	Indonesia
2012/10/22 - 2012/11/01	6th International Training Course on Satellite Course	Beijing, China	II	CMA training centre, Beijing, China	Classroom course	English	23	Kenya, Thailand, Malaysia(2), Bhutan, Poland, Egypt, Indonesia, Madagascar, Tajikistan, Indonesia, Iran, Senegal, Tanzania, Bahrain, Philippines, Liberia(2), Morocco, Nigeria, Saudi Arabia(3)
2013/09/03 - 2013/09/13	International Training Course on Satellite Met	China	II	CMA	Classroom course	English	13	Tajikistan, Malaysia, Mongolia(2), Egypt, Namibia, Seychelles, D.R. Congo, Burundi, Indonesia, Zimbabwe, Azerbaijan, Rwanda