



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

ACTIVITY REPORT

Period: September 2012 to December 2013
Centre of Excellence: Brazil

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?

- Participation of Trainers from others CPTEC's groups
- Course is well established some of them reached the third edition
- Better training material (lecture notes and extended material are available to the users)

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

- Support to maintain a personal full-time or part-time dedicated to Vlab activities.
- Provide Vlab certificate through INPE's system (long time to issue the certificate). There are a specific office and internal rules in INPE for certification.
- Problems with users network security system. Users need to check the accessibility of the RNP (the CoE-Brazil used conference system) with their local's network administration. Most of institutions have firewall closed and users must to request some TCP connection access. Although instructions and test sections has been given before lecture events, most of trainees only try to solve it unsuccessfully few minutes before the event. We are planning to change from "live" to recorded lectures.

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)?

Produced by own trainers.

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

Moodle

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

RNP (Rede Nacional de Ensino e Pesquisa - <https://www.rnp.br/en/>) . It is recognized that RNP is an excellent conference system (very well established and presents a good support) , but we need to propose a more effective way to trainees to check their local firewalls in advance in order to use RNP with success.

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

The only training is related on the use of the online conferencing system. No other training is provided to the trainers.

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?

- i) We are trying to develop a new methodology for building our training events. We are trying to explore the Moodle's facilities in order to propose new learning activities, such as, recorded lectures, practical exercises and group discussion, among other activities. In this context, the WMO-No1114 document will be a starting guide for us to achieve this challenge. We appreciated Vlab could provide a training event for our trainers based on this document and also on previous successful experiences.
- ii) INPE is only Suomi-NPP direct broadcast in South America. We really appreciate that WMO Space Program and NOAA help us to support a face-to-face training event on the NPP.

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 resource¹, institutional use only)	Submitted to ESRC (Yes/No)
<i>Applications of Meteorological Satellite Products</i>	<i>Lecture notes Recorded presentation</i>	<i>Institutional only</i>	<i>No</i>

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?

- Although, INPE is the CoE and Satellite Operator, the CoE-Brazil has basically support from local administration: Satellite and Environmental Division (DSA) that belongs to CPTEC/INPE. We think that Vlab could contact formally the new INPE's coordination and promote the importance of Satellite Operator to support the CoE –Brazil, mainly in this new phase, that CoE is trying to progress on capacity building.

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

NA

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.

¹ Please also indicate if the Creative Commons License was applied to the resource.



Date	Title	Location	WMO region	Host	Type	Language	Number of trainees	Country of origin of trainees
2012/09/10 - 2012/09/12	Weather Radar Course	Online	III	CPTEC/INPE	Online course	Portuguese	22	Brazil(20), Cabo Verde (1), Uruguay (1)
2012/10/08 - 2012/10/11	Virtual Laboratory Management Group - 6th Meeting	Sao Jose dos Campos - Brazil	III	CPTEC/INPE	Workshop	English	~25	Argentina, Australia, Barbados, Brazil, China, Costa Rica, Kenya, EUA, Morocco, Niger, Oman, Rússia Federation, South Africa.
2012/12/10 - 2012/12/11	Meteorology and Health - Second Edition	Online	III	CPTEC/INPE	Online course	Portuguese	42	Brazil (40), Cabo Verde (1), Peru(1)
2013/02/19 - 2013/02/21	Satellite Meteorology Course - Third Edition - Satellite	Brazil	III	CPTEC/INPE	Online course	Portuguese	59	Brazil (56), Cabo Verde (2), Peru(1)
2013/03/13 - 2013/03/15	Meteorology applied to Agriculture - Third Edition - Hydrology	Cachoeira Paulista	III	CPTEC/INPE	Online course	Portuguese	55	Brazil (54), Bolivia (1)
2013/04/23 - 2013/04/25	Applications of Meteorological Satellite Products - Third Edition - Visual	Cachoeira Paulista	III	CPTEC/INPE	Online course	Portuguese	40	Brazil
2013/08/12 - 2013/08/16	Interpretation of Satellite Images Virtual Round Table on	Online	III	CPTEC/INPE	Online course	Portuguese	94	Brazil (90) , Peru(3), EUA(1)
2013/10/02 - 2013/10/02	Aeronautical Meteorological Competences – Portuguese	Online	III	INFRAERO	Online course	Portuguese	26	Brazil (23), Portugal (3)
2013/10/29 - 2013/10/31	Satellite Fire Monitoring	Cachoeira Paulista	III	CPTEC/INPE	Classroom course	Portuguese	16	Brazil



2013/12/03	GEONETCast								
-	Semana del	Online	III, IV	CIRA	Event week	Spanish	~35	Several countries from WMO Regions	
2013/12/05	evento							III & IV	
2013/12/03	GEONETCast								
-	Event Week	Online	III, IV	CIRA	Event week	English	~20	Several countries from WMO Regions	
2013/12/05								III & IV	