

VLab Centre of Excellence in RA-I : Morocco
Training Activities and Requirements

RAIDEG-8, 1-2 Nov 2017

VLab Casablanca's Centre of Excellence

- Established in Casablanca in **2012**.
- Covers Francophone countries of **West and North Africa**.
- **Purpose**: “organising training course on “advanced remote sensing applications in the priority areas of meteorology”.
- Many **Successful online & in-class training courses** have been organised.

N.B.: training activities organised conjointly by EUMETSAT and the DMN of Morocco started before the establishment of a CoE in Casablanca.

Some Past Training activities (in-class)

- Training Workshop on **Satellite Meteorology Applications** , **26-30 October 2009, Casablanca.**
Participants from: Algérie, Tunisie, Mauritanie, Maroc, Mali.
- Training Workshop on Satellite Meteorology Applications « **Nowcasting** », **24-28 October 2011, Casablanca.**
Participants from : Algeria, Burkina Faso, Côte d'Ivoire, Mauritania, Senegal, Togo, Tunisia, Mali, Guinea Conakry, Niger.
- Workshop on Advanced Applications of Remote Sensing in **Marine Forecasting and Nowcasting**, **20-24 May 2013, Casablanca.**
Participants from: Algeria, Tunisia, Mauritania, Senegal, Guinea, Cote d'Ivoire, Benin, Togo, Burkina Faso and Mali.

Some Past Training activities (in-class): photos !



2009



2013

And some Online training courses ...

- The Aviation Week event (2013).
- Numerical Weather Prediction (2013).
- Modelling of low clouds and low visibility (2013).
- Marine Forecasting (2014).

Next Casablanca's CoE training activity!

Marine Forecaster Workshop using altimetry and scatterometric data, 04 to 08 December 2017

Organisers: DMN of Morocco & EUMETSAT.

Participants from: Benin, Cameroon, Comoros, Congo, Ivory Coast, Guinea Senegal, Morocco.

Instructors from: Germany (EUMETSAT), Morocco (Maroc-Météo) and from France (Météo-France).

Some axes on which we would like to work in Casablanca's VLab during 2018-2019

- Prepare **online** pre-courses in **French** using the **Moodle** tool (for pre-selection purposes).
--> This can be started by translating and adapting existing English online courses.
- Play a **growing training** role in **NWP** field (ensemble prediction, weather forecast, seasonal forecast, climate change, wave modeling for high seas & coastal areas, transport modeling, ...)
- **Ensure at least one Moroccan expert/instructor at each discipline** of meteorology and related sciences (remote sensing, NWP, water, energy, health, aeronautical weather, marine weather, atmospheric forecasting, climatological applications, ...)
- Casablanca's CoE would like to **exchange experts** between African CoEs, particularly with Niamey's CoE (French speaking).

Some axes on which we would like to work in Casablanca's CoE during 2018-2019

Casablanca's CoE could organize or help another CoE (through instructors) to organize during 2018-2019 one (or more) of the following courses:

- Use of remote sensing products in nowcasting and very-short forecasts.
- Interpretation of marine models outputs and use of satellite information in marine analysis and forecasts.
- Integration of Satellite and NWP information into forecasting.
- Aeronautical forecasts.
- Basics of NWP ensemble forecasting.

Training requirements

(answers from Egypt, Tunisia and Morocco)

- Marine Forecast.
- Convection indices interpretation (LII, LI, MPE, ...)
- Climate monitoring.
- Climatological products.
- Satellite images Analysis
- Ho to use data in assimilated techniques or calibration,
- How to use radiation data to detect certain phenomena,
- Use of Satellite Products in Agrometeorology , for Drought Monitoring and Agro-meteorological Applications .
- Use of Satellite Data for Climate Services to agriculture and forestry applications e.g. fire hazards, food production and hydrology.

Recommendations

- **The identification of training needs requires a REAL identification of data and products requirements.** For VLAB to fulfill their training role, African users should understand better their needs.
- **Train** the trainers. They **need to be updated** with respect to new products and developments.
- Improve **communication** between CoEs and exchange of training experts.
- Develop and communicate a **skills matrix** of African experts/trainers: which trainer to which area/field. Identify gaps in expertise to fill them, ...
- **Use EXISTING training packages** (ex. COMET/MetEd/ASMET/...) and free platforms (ex. FUN platform) in self-learning, classroom training, online Webex training , etc. A list of such training packages and tools to be defined by Vlabs, WMO, ...? and advertised (sent to PRs, CoE focal points, ASMET group, ...).

Thank you

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Merci