

**SAHEL 2007**

**EUMETSAT Training**



**4 April 2007**



## EUMETSAT's training is achieved through:

- ❑ Classroom courses
- ❑ Preparation of training material (e.g. CAL modules)
- ❑ Distant learning activities (e.g. VisitView)
- ❑ Preparation of Web content

# EUMETSAT Training Programme

## The Role of EUMETSAT in Training

- ❑ To act as a catalyst, promoting training in use of satellite data in Member & Cooperating States
- ❑ Close cooperation with training institutes of larger Member States (DWD, UK Met Off College, Meteo France)
- ❑ Expertise from Member or Cooperating States often used at EUMETSAT training courses, workshops, etc.
- ❑ EUMETSAT often takes the lead when the scope of an activity is too big for one country: EUMeTrain, SATMANU, MSG Interpretation Guide, etc.
- ❑ Support Training activities in Africa, the Middle East and S-America: courses, ASMET, conferences, training core trainers.

# Activities/Achievements in 2006

## ■ Training courses in

- Member States: Croatia, Finland, Germany, Italy, Portugal, Slovakia, Spain
- Cooperating States: Bulgaria, Poland
- Latin America: Brazil, Guatemala, Paraguay
- Middle East & Africa: Kenya, Niger, South Africa, Oman

## ■ Large number of 'Images of the Month' were provided via the Web

## ■ First training workshop on Climate Monitoring in Croatia

## ■ High Profile Training Event (HPTE) in cooperation with WMO took place in October 2006

- Centres of Excellence and Satellite Operators presented lectures to the other partners
- VisitView presentations on Satellite Meteorology topics were given on-line via the internet



# Activities/Achievements in 2006

## ■ Visit View lectures

- SEVIRI IR window channels
- Registration & on-line ordering for U-MARF
- The use of SEVIRI IR 3.9  $\mu\text{m}$  channel
- The use of SEVIRI 8.7  $\mu\text{m}$  Channel
- Airmass RGB

## ■ Production of the first MetOp Webcast module, in cooperation with COMET

- Available via EUMETSAT Web site

## ■ Visits to Member States: Belgium, Ireland



# EUMETSAT External Training: Challenges

- ❖ Further develop global cooperation with WMO
- ❖ Continue bilateral training cooperation with NOAA and COMET
- ❖ Further enhance distance learning lecturing through the EUMETSAT Web site
- ❖ Align training in Africa to support the needs of AMESD – (follow-up project of PUMA)
- ❖ Continue to support the ASMET project
- ❖ Encourage Graduate Trainee activities

The aim of EUMETCAL is to promote the use of computer-based technologies to assist European NMS and EUMETSAT training activities

- ❑ The EUMETCAL project is funded by the European MET SERVICES and EUMETSAT.
- ❑ Its aim is to facilitate cooperation on providing training in meteorology:
  - ❑ exchange and deliver online material;
  - ❑ create lessons;
  - ❑ help on CAL (Computer Assisted Learning) techniques.
- ❑ A main objective is to set up and maintain an infrastructure for cooperation in training. This includes provision of a common Web server, implementation and maintenance of a training resource library system.
- ❑ Another objective is the creation of a European Virtual College.

# EUMETCAL structure



@umetcal

Training Development

Module Production

Themed Resource Working Groups

Eumetcal Workshops

Training Resource

Library

Course Management System

Eumetcal Web Site

Training Delivery

Eumetcal College

VISITview

Training Modules

Contact training





- **ZAMG is the project host**

- **Project Manager: Veronika Zwatz Meise**

- **Objective:**

- **Provide EUMETSAT satellite data users with training material (e.g. Case studies – SATMANU).**

- **Maintain Guides and Documentation (e.g. MSG Interpretation Guide, SATMANU etc.)**

- **Develop distant learning tools and relevant infrastructure**

- **Deliver structured courses**

- **Contribute to live weather briefings and case study discussion (making use of SATREP results).**

# EUMETSAT Distant Learning Activities

EUMETSAT's distant learning activities augment the conventional training in cooperation with the WMO and in Europe with EUMETCAL.

This does not replace the traditional training events, but offers the opportunity to transform classroom training events into a longer lasting training process.

This is achieved through:

- ❑ Classroom courses
- ❑ Continuing discussions with participants before and after a training course (Focus Groups).

# EUMETSAT – Distance Learning Web Pages

The new EUMETSAT distance learning Web Page at:  
[http://www.eumetsat.int/idcplg?IdcService=SS\\_GET\\_PAGE&nodeId=532&l=en](http://www.eumetsat.int/idcplg?IdcService=SS_GET_PAGE&nodeId=532&l=en)

**EUMETSAT WHAT WE DO**  
Monitoring Weather, Climate and the Environment

WHO WE ARE | WHAT WE DO | ACCESS TO DATA | IMAGE GALLERY | PUBLICATIONS | MEDIA

Home > What We Do > Training > Distance Learning

**Distance Learning**

On this page a number of training sessions in the area of Satellite Meteorology are offered as teletraining sessions. The teletraining sessions utilise the VISITview software (see related links) where a PC with an Internet connection is required. A conference call or Voice over IP (VOIP) is used for the instructor and students to interact. The phone number and/or the VOIP contact details will be provided by email along with signup instructions.

The currently available training sessions are given in the list below. Please, click on the link under "Details" to get a full description of the session and the download instructions. If you want to participate in a training session, please check the **Schedule** for details as regards dates and times. If you prefer self-learning, you can download the training lesson to your local PC and open it in a local mode. More instructions are given in the PDF files under "Details".

Note: it is recommended to use a fast Internet connection for downloading. The files can be very large, typically around 50 MB. Downloading via an analogue modem is not appropriate.

	<b>Title</b> Airmass RGB
<b>Author</b>	Jochen Kerkmann
<b>Duration</b>	90 min. <a href="#">Details</a> <a href="#">PDF, 43 KB</a>
	<b>Title</b> Early Detection of Rapid Cyclogenesis
<b>Author</b>	Jochen Kerkmann
<b>Duration</b>	120 min. <a href="#">Details</a> <a href="#">PDF, 46 KB</a>

# Training Cooperation with the WMO

- For many years, and with the strong support of Council, EUMETSAT has closely cooperated with the WMO on training matters.
  
- The cooperation with WMO is achieved through:
  - Common organisation of events (e.g. Africa, Oman, Zagreb)
  - Contribution to the Virtual Laboratory (VL) for Education and Training.
    - EUMETSAT is part of the management team
    - EUMETSAT hosts a VL server on its Web
    - EUMETSAT contributes lecture material
    - New VL events are planned for 2007 and beyond

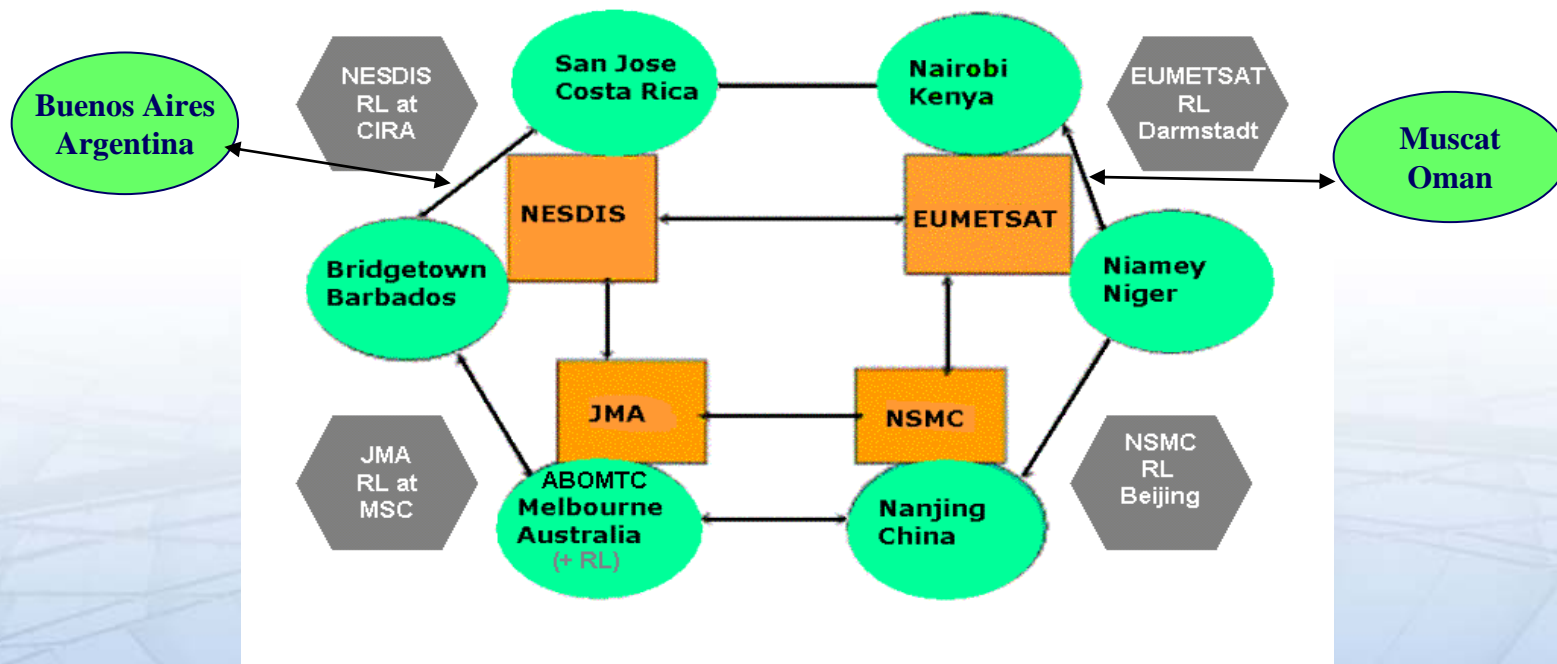
# EUMETSAT - Virtual Laboratory of WMO

The EUMETSAT VL resource library is at: [oislab.eumetsat.org/VLab/](http://oislab.eumetsat.org/VLab/)

The screenshot shows a Microsoft Internet Explorer browser window displaying the EUMETSAT Virtual Laboratory website. The address bar shows the URL <http://oislab.eumetsat.org/VLab/>. The page content includes a navigation bar with a link to the French version, a main heading "Virtual Laboratory for Training in Satellite Meteorology", an introductory paragraph about the VL, a section for "Virtual Lab Resources available from this site" with links to Satellite Imagery, Training Tools, Live Training Events, Satellite Products, Software, Online Courses and Quiz's, Tutorials, and Digital Satellite Imagery Search. Below this is a section for "Centers of Excellence resource sites and sponsors' resource libraries" listing five WMO Regional Meteorological Training Centers. Further down are sections for "Resource libraries" (CIRA, EUMETSAT, JMA, NSMC, WMO), "Supporting Science Groups" (ITWG, IWWG, IPWG), and "Virtual Lab Sponsors" (USA, Europe, China, Japan). The page concludes with logos for EUMETSAT, CGMS, and @umetcal.

# EUMETSAT - Virtual Laboratory of WMO

EUMETSAT like NOAA, JMA and CMA contributes to the WMO Virtual Laboratory for Education and Training by hosting a resource library on its Web.



# Training courses 2007

## European Courses

- Croatia (2<sup>nd</sup> WS on Climate SAF), Denmark (NOMEK), Germany, Greece, Hungary, Italy, Spain.

## African and Middle East Courses

- Muscat, Oman (February)
- Nairobi and Niamey (July and November)
- Burkina Faso (in cooperation with NCAR/UNIDATA)

## South American Courses

- Alagoas, Brazil (With support from UNIDATA and probably NOAA)
- Conference for Brazilian remote sensing users in Florianopolis
  - (including live reception of EUMETCast)
- Cartagena, Colombia

# Goals for 2007

- i **Start development of training for the ocean community**
  - (e.g. sub-sessions during the EUMETSAT Conference in Amsterdam 2007)
- i **Continue bilateral training cooperation with NOAA and COMET**



# Goals for 2007

- i **Enhance distance learning lecturing through the EUMETSAT Web site**
  - A regular schedule will be maintained
  
- i **More training in Africa**
  - To support the training needs of AMESD
  - Participate at the SAHEL2007 Conference
  - Continue the ASMET project
  
- i **Support training in South America in cooperation with INPE to encourage enhanced use of EUMETCast and GOES-10 dissemination via GEONETCast**
  
- i **Further Graduate Trainee activities**

# VL High Profile Training Event

To involve a maximum of the EUMETSAT training audience regional Training events was organized to follow the HPTE in October 2006 at the following places:

- ❑ RMTTC Niamey (Niger)
- ❑ RMTTC Nairobi (Kenia)
- ❑ RMTTC Muscat (Oman)
- ❑ INM Lisbon (Portugal)
- ❑ Pretoria (South Africa)

Time increment

-6 -4

+1 +2 +3 +4

+8 +9 +10

Lecture time/dirn.

← evening → morning →

← evening → morning →

← evening → morning →

### Americas Sector

### Europe Sector

### Far East Sector

ARCTIC OCEAN

ATLANTIC OCEAN

EUM core lecture

EUM Core lecture

EUMETSAT

USA core lecture

Beijing?

USA core lecture

USA

Lisbon

Portuguese reg. lecture

Oman

Arab reg. lecture

Tokyo

PACIFIC OCEAN

Barbados

Caribbean reg. lectures

Niamey

Caribbean reg. lectures

Costa Rica

African reg. lecture

Nairobi

African reg. lecture

Nanjing

INDIAN OCEAN

Pretoria

SAWS reg. lecture

BoM & APSATS

BoM & APSATS reg. lectures

BoM & APSATS reg. lectures

BoM & APSATS reg. lectures



# VL High Profile Training Event

A series of four different core lectures will be held on the following topics:

- ❑ **A - 1 WMO Space Programme, 2 Satellite capabilities, 3 Use of the VL,  
(Don Hinsman (1), Jeff Wilson (2/3) from Melbourne)**
- ❑ **B - Spectral bands & applications  
(Jim Purdom & Paul Menzel from Melbourne or USA)**
- ❑ **C - Digital data to Products (incl. SAF products)  
(Jochen Kerkmann (Darmstadt) and Marianne König (Pretoria))**
- ❑ **D - 1 Severe Convection, 2. Rainfall  
(Jim Purdom at IPWD in Melbourne)**

# VL High Profile Training Event

In addition further VisitView lectures for the regional areas are planned addressing the following topics:

- ❑ **RGB Applications**  
(Hans Peter Roesli from Muscat)
- ❑ **Presentation from Niamey (on Dust)**
- ❑ **Presentation from Nairobi**
- ❑ **Global Instability Product and/or Fire Detection**  
(from Pretoria)

**END OF PRESENTATION**