SAHEL 2007

EUMETSAT Training

4 April 2007
EUMETSAT Training Programe

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
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
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.
EUMeTRAIN

- 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’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).
The new EUMETSAT distance learning Web Page at:
http://www.eumetsat.int/idcplg?IdcService=SS_GET_PAGE&nodeId=532&l=en
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
The EUMETSAT VL resource library is at: oislab.eumetsat.org/VLab/
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 (2nd 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

- Start development of training for the ocean community
  - (e.g. sub-sessions during the EUMETSAT Conference in Amsterdam 2007)

- Continue bilateral training cooperation with NOAA and COMET
Goals for 2007

- Enhance distance learning lecturing through the EUMETSAT Web site
  - A regular schedule will be maintained

- More training in Africa
  - To support the training needs of AMESD
  - Participate at the SAHEL2007 Conference
  - Continue the ASMET project

- Support training in South America in cooperation with INPE to encourage enhanced use of EUMETCast and GOES-10 dissemination via GEONETCast

- Further Graduate Trainee activities
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:

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