

## **REPORT ON EUMETSAT TRAINING ACTIVITIES**

This document reports on training activities carried out by EUMETSAT over the last year and provides an outline plan of training activities for the coming year.

CGMS Members are invited to take note.

## REPORT ON EUMETSAT TRAINING ACTIVITIES

### 1 INTRODUCTION

This document briefly describes training activities carried out over the last twelve months and presents an outline plan of activities for the coming year.

### 2 RECENT TRAINING ACTIVITIES

Location	Event	Dates	Comments
Kampala, Uganda	EUMETSAT African User Forum	25 – 29 September	Biannual conference for African NMHS. Strong focus on PUMA activities.
Niamey, Niger	MSG/EPS Course	16 – 20 October	Training Course (main emphasis MSG) for African NMHS (French language)
Uccle, Belgium	MSG/EPS Course	19 – 24 October	Training Course for EUMETSAT Member & Cooperating States
Nairobi, Kenya	MSG/EPS Course	6 – 10 November	Training Course for African NMHS (English Language)
Lisbon, Portugal	MSG/EPS Course	8 – 15 November	Training Course for Portuguese Agencies & speaking nations
ISRO, Ahmedabad	Various EUMETSAT training presentations	Early November	Contributions to an international training event hosted by ISRO
Budapest, Hungary	MSG Course	4 – 8 December	Training Course (MSG & SAFs) for EUMETSAT Cooperating States
Dresden, Germany	User Training Workshop for Climate monitoring SAF	20–22 November	Training Workshop to bring together SAF experts and potential users
Nanjing, China	Various EUMETSAT training presentations	4 – 15 December	Contributions to an international training event hosted by China
Bratislava, Slovakia	MSG Course	6 – 8 March 2001	Training Course (MSG & SAFs) for EUMETSAT Cooperating States
Vilnius, Lithuania	NOMEK training course	18 – 24 April 2001	Established one-per-year course involving Nordic & Baltic countries
Florence, Italy	agricultural applications using satellite data	1 – 18 May	Held at Florence RMTC, for the benefit of French-speaking West African nations
Ankara, Turkey	Scatterometry and Altimetry applications workshop	8 – 10 May	Focussed training workshop on Scatterometer & Altimeter applications
Thessaloniki, Greece	Ozone SAF training workshop	21 – 23 May	Training Workshop to bring together SAF experts and potential users.
Langen, Germany	Satellite application training course	28 May-1 June	Established annual course on satellite applications (conducted at DWD Training School, in the German language)
Krakow, Poland	MSG course	18 – 20 June	Training course (MSG & SAFs) for EUMETSAT co-operating states
Naibori, Kenya	Satellite Applications	7 – 16 August	Satellite applications training course for African NMHS

### **3 TRAINING ACTIVITIES AT EUMETSAT HQ**

Whilst the main focus of EUMETSAT Training Activities is the organisation of training trainers in the NMHS of EUMETSAT Member & Cooperating States and in the two sponsored WMO RMTC in Africa, some training activities are carried out in EUMETSAT HQ. To this end, a dedicated EUMETSAT Training Laboratory, in which general training facilities and those needed to support the development and testing of training material, has been established for use by visiting trainers and graduate trainees.

### **4 COMPUTER AIDED LEARNING**

#### **4.1 Virtual Laboratory**

In July 2000 EUMETSAT participated in a meeting of the WMO Commission for Basic Systems (CBS) Open Programme Area Group (OPAG) held in Lannion, France. Training issues were extensively discussed and the concept of a "Virtual Laboratory", introduced at a previous meeting of the group, was developed.

A Virtual Laboratory Focus Group meeting was hosted by EUMETSAT from 16 – 18 May 2001. This group is a 'spin-off' from discussions at both the WMO OPAG and CGMS meetings and is tasked to take the Virtual Laboratory from concept to initial implementation. Current activities include the compilation of a list of virtual Laboratory resources offered by several training establishments and WMO, the establishment of servers to host and/or exchange resource library material and the development of a Virtual Library web access mechanism.

#### **4.2 MSG CAL**

An MSG Computer Aided Learning (CAL) workshop took place at the Deutscher Wetterdienst training school at Langen from 22 – 24 August 2000. Approximately 35 participants took part, representing all the relevant disciplines including meteorologists, technicians, researchers, trainers, developers and CAL experts. The workshop report provided valuable guidance on the development of MSG training material.

Following the release of a EUMETSAT Invitation to Tender for a contract to develop an initial set of MSG CAL modules earlier this year, a contractor has now been selected and work is expected to start in September 2001.

#### **4.3 ASMET**

A review meeting was convened by EUMETSAT, from 14 – 18 August 2000, to assess the progress of the third set of modules in the African Satellite Meteorology Training (ASMET) project. Further reviews were held in October and November 2000 and in June 2001. The current phase of the project is nearing completion and high quality training material, developed and produced by African experts, will shortly be available for general use.

#### **4.4 SATREP/SATMANU**

Also in August 2000, the latest SATREP CAL module (SATREP III), developed by the consortium of ZAMG, KNMI and FMI, was extensively reviewed and thereafter released for general use.

In December 2000, a contract was placed with the same consortium to develop a more advanced set of modules, to be known as SATMANU. This work will take advantage of the latest developments in the use of conceptual models and case studies as aids to training in satellite meteorology.

#### **4.5 EUMETCAL**

A meeting of a project team from EUMETNET, tasked with assuring that the EuroMET CAL initiative is sustained, was hosted by EUMETSAT from 28 – 29 May 2001. EUMETSAT has become a member of this project team and will participate in future activities. The project is to be known as EUMETCAL. The immediate plan is to secure funding and to place an external contract to address the short to medium-term maintenance and evolution of the existing material.

#### **5 FUTURE TRAINING ACTIVITIES**

Several satellite data applications training courses and/or SAF user training workshops are currently in the planning stage and in the next twelve months are scheduled to take place in the following countries: Nairobi, Niamey, Spain, Croatia, Portugal, Germany, Denmark, Czech Republic, and France.

#### **6 CONCLUSION**

CGMS Members are invited to take note of EUMETSAT satellite meteorology training activities.