

## **REPORT ON EUMETSAT TRAINING ACTIVITIES**

This document reports on training activities carried out by EUMETSAT since CGMS XXX in November 2002.

CGMS Members are invited to take note.

## REPORT ON EUMETSAT TRAINING ACTIVITIES

- 1 EUMETSAT has either conducted or participated in the following training events and related meetings since CGMS XXX in November 2002.

Location/Topic	Event/Course	Dates	Comments
ESAC IIE, IMTR	MSG applications	4-15 Nov 2002	For anglophone met staff
ESAC IIF, EAMAC	MSG applications	25 Nov-4 Dec	For francophone met staff
Forteleza, Brazil	MSG Applications	18-20 Dec	EUM and others
SATMANU	Mid-Term Review Scientific Review	20-23 Jan 03 14- 16 April	Review meetings on new Conceptual Models
EAMAC, Niger/ MSG & PUMA	ASECNA course	17-28 Feb	Presentations by EUMETSAT and others
ASMET	Review Meetings	17-28 March 2 - 13 June	Completion of scripts- Tropical Cyclones
Langen, Germany	MeteoCal course	26-28 March	Use of tools to create interactive CAL
Norrköping, Sweden	NOMEK course	2-8 April	Contribution to lectures by EUMETSAT
Madrid, Spain	WMO Symposium on Education and Training	21-26 April	Participation in WMO & EUMETCAL meetings
Langen, Germany	Training Workshop on Satellite Meteorology	12-16 May	Presentations, including one day at EUMETSAT
Maratea, Italy	Remote-Sensing Seminar	22-31 May	Participation of staff from cooperating states
Belgrade, Yugoslavia	Training course on MSG and conceptual models	2-11 June	Presentations by EUMETSAT and ZAMG
Elsinore, Denmark	2 <sup>nd</sup> GRAS SAF User Workshop	12-13 June	Presentations by EUMETSAT
ESAC IIF, IMTR	MSG applications	14-25 July	Presentations (French) by EUMETSAT & EAMAC
ESAC IIE, IMTR	MSG applications	25 Aug-5 Sept	Presentations by EUM and IMTR.
Kiev, Ukraine	MSG applications	10-12 Sept	Presentations by EUM and others
Alanya, Turkey	Satellite met. Course	22-25 Sept	Presentations by EUM and TSMS
Krakov, Poland	MSG and SAF products	12-16 Nov	EUM, ZAMG and SAF presenters
Florence IBIMET/CNR/WMO	topics including satellite met: Africa	3-7 Nov	African agro-meteorologists - uses of MSG satellite data
Forteleza, Brazil	Satellite met course	17-26 Nov	EUM and other presenters

**In addition the following activities were supported:**

Two training courses for the African user community were held to prepare meteorologists for using the new data from the MSG SEVIRI instrument. These courses were held as follows:

- In November, an ESAC-IIE course for anglophone African countries at the IMTR in Nairobi, Kenya, dealing with meteorological applications, MSG and the PUMA project.
- In December an ESAC-IIF course for francophone African countries at EAMAC in Niamey, Niger, dealing with the same subjects.

Four African CAL developers participated at the Mid-Term Review meeting of the ASMET4 project at EUMETSAT, 17 – 28 March. During the meeting the script was finalised, and data was retrieved from the EUMETSAT and ECMWF archives. Also a short visit to the MeteoCal course was made to further familiarise the African CAL developers with the MeteoCal tools.

From 26 to 28 March a second course on creation of training material for CAL (Computer-Aided Learning material called MeteoCAL) was held at the Bildungs- und Training Zentrum (BTZ) of the German National Meteorological Service in Langen. Ten meteorologists from countries participating in EUMETCAL (a EUMETNET project conducted by FMI) participated in that course.

Two visits to Member States to promote EUMETSAT's activities (on 2 April to Austria - ZAMG, Vienna and on 20 June to Italy, Italian Met. Service, Rome).

14 – 16 April, SATMANU Phase B Scientific Review Meeting in De Bilt, NL. As a result of the discussions two further telephone conferences were scheduled on 6 and 23 June. This telephone conference meeting is considered as a new promising element for the project coordination. This facility will also be developed further for training applications.

On 26 April EUMETSAT representatives attended the EUMETCAL Board meeting. The objective of this CAL project is to reuse existing EuroMET modules to use and share a virtual meteorological library and CAL developing tools.

28 April, Madrid, a EUMETCAL – COMET coordination meeting to foster the possibility to develop jointly CAL modules with the US organisation was attended by a EUMETSAT representative. (COMET - Cooperative Program for Operational Meteorology, a part of the UCAR University in Boulder USA).

From 5 to 29 May, Adamou Garba, an EAMAC instructor (Niamey) spend 4 weeks at the EUMETSAT HQ to prepare himself as an MSG expert for the ESAC-IIF course in Niamey in July 2003.

Mr. Aydin Erturk from the Turkish Met. Service started as a graduate trainee for a six-month training period at EUMETSAT in May 2003. He works on a project to develop GRIB decoding and re-encoding software and on multiscale precipitation estimations.

From 2 to 13 June another ASMET4 Review meeting took place at the EUMETSAT HQ. The main task was to finalise the script of the CAL module on Tropical Cyclones, defining the required satellite imagery and graphics. Four African experts participated together with the instructional designer from UCAR, Boulder.

On 23 June a EUMETSAT representative visited ITC, Enschede, Netherlands. ITC stands for International Institute for Aerospace survey and Earth Sciences, a leading organisation to train students from developing countries in Remote Sensing. ITC is organising a very interesting distance learning course this year through the Internet <http://www.itc.nl/education>. Two African meteorologists have been selected to participate in this course accessing material from their own places of work.