

## **REPORT ON EUMETSAT TRAINING ACTIVITIES**

This Working Paper reports on the training activities carried out by EUMETSAT since May 2004.

CGMS Members are invited to take note.

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### 1. INTRODUCTION

In 2004 and 2005 EUMETSAT was organising and supporting several training events in Europe and Africa. In particular the following training events and related meetings have been conducted / supported:

Date	Location	Event	Comments
24-28 May	EAMAC, Niamey, Niger	PUMA training	PUMA training coordination workshop with training partners
26-28 May	Latvia, Riga	First satellite course on meteorological applications	Participants from Latvia and surrounding countries
1-10 June	EUMETSAT, Darmstadt	ASMET4 project meeting	Finalisation of the CAL module on Tropical Cyclones over the SW-Indian Ocean
10-19 June	EUMETSAT, Darmstadt	MSG training the trainers	Messrs Kagenyi, Kongoti were trained as future trainers for MSG courses in Africa
14-18 June	Langen, Germany	DWD satellite seminar	Emphasis on MSG applications
28 June – 2 July	Geneva, Switzerland	WMO, CBS, SSUP	Expert team meeting on satellite data and products utilisation
12-16 July	Boulder, USA	CALMET Conference	Conference on Computer Aided Learning and Distance Learning
2-6 August	Nairobi, Kenya	PUMA Course	One week course as EUMETSAT contribution to PUMA (English lang.)
6-10 September	Cheia, Romania	Satellite Application Course	Course for Eastern European Countries
14-20 September	Niamey, Niger	PUMA Course	One week course as EUMETSAT contribution to PUMA (French lang.)
27 September – 1 October	Brazzaville, Congo	6 <sup>th</sup> EUMETSAT User Forum	Consultation of African user community, PUMA and AMESD activities.
27 September – 1 October	Santa Cruz de la Sierra, Bolivia	Iberian-American Satellite Meteorology Course	The first EUMETSAT course in Spanish for Iberian-American countries
12-14 October	Vilnius, Lithuania	Satellite Applications course	Course for Baltic States and Eastern European Countries
19 October	Langen, Germany	WMO course for Public Weather Services	Distance Learning (VistView) Session

27-28 October	Moscow, Russia	MSG Interpretation	In-line with Russian Co-operation agreement
02-05 November	Pretoria, SA	MSG Interpretation Course	Emphasis on MSG applications
06-10 December	Nairobi, Kenya	3 <sup>rd</sup> PUMA course	For English speaking countries in Africa
15-21 December	Niamey, Niger	4 <sup>th</sup> PUMA course	For French speaking countries in Africa
7-18 February	Exeter, UK	Sat Met Imagery Workshop	Organised by UK Met. Off College on behalf of EUM
7-11 February	Cairo, Egypt	Arabian course at Egypt Met Authority	MSG Channel Interpretation and Application Course, Magreb countries, Sudan
21-25 February	Nairobi, Kenya	5 <sup>th</sup> PUMA course	For English speaking countries in Africa
23-24 February	Helsinki, Finland	Visit Member State	Including one day course
7-18 March	Cachoreira Paulista, Brasil	Portuguese course	Also participation of 5 African countries
11-15 April	Alanya, Turkey	Training workshop	Nowcasting and Conceptual Models
13-19 Apr	Oslo, Norway	NOMEK	Course for Baltic States and Eastern European Countries
17-19 May	Tallinn, Estonia	Satellite Application Course	Course for Baltic States
6-7 June	Valencia, Spain	Postgraduate course	New Obs and Watch Systems in Met and Clim
13-17 June	Langen, Germany	Satellite Application Course	Joint course DWD, ZAMG, EUMETSAT
11-15 Jul	Niamey	6 <sup>th</sup> PUMA course	For French speaking countries in Africa
11-15 July	Pretoria, S-Africa	7 <sup>th</sup> PUMA Course	For English speaking countries in Africa

In addition the following activities were supported:

#### Year 2004

A EUMETCast receiving station of a type which was provided to the African Met. Services in the framework of the PUMA project was installed at EUMETSAT for training and monitoring purposes.

4-5 June. A SATMANU review meeting was held in Prague on the occasion of the Meteorological Satellite Conference as many participants of the SATMANU project were present advantage was taken of their availability.

16 – 18 May EUMETSAT participated at the Curriculum Development workshop for NPOESS at COMET, Boulder, USA. The training needs for the NPOESS era were

discussed. Much attention was given to the potential of distance learning through the Internet.

5-30 July A training officer from EUMETSAT, Mr J. Kerkmann, visited COMET, Boulder, to start the cooperation on training with NOAA for the Joint Polar System.

23. August – 3 September EUMETSAT supported a course in satellite meteorology organised by P. Menzel of USA in Bertinono, Italy

09-12 November The European Conference on severe storms in León, Spain was supported.

## **Year 2005**

In January 2005 priority was given to the production of Distance Learning material, namely VisitView sessions. This allows interactive live tuition over the Internet.

During the reporting period much attention was given to the production of training material by investigating interesting meteorological situations and phenomena as received by the Training Group's EUMETCast receiving station. Such cases are frequently used in training-courses.

27 January 2005 The Director of COMET, Dr. Timothy Spangler, visited EUMETSAT.

31 January – 11 February In-house training at EUMETSAT was provided for 3 African trainers from Nairobi and South-Africa.

9-10 February The 1st EPS/EUMETCast dissemination workshop was organised and held at EUMETSAT.

21-22 February EUMETSAT gave a presentation on MSG applications and demonstrated the EUMETCast system at the WMO/CBS Conference in St. Petersburg, Russia

30 April EUMETSAT attend the GEO Conference, Leicester, UK, and made a presentation on MSG applications.

2 May Dr. Steven Goodman, NASA, visited EUMETSAT for the coordination of an WMO NWP course in Pretoria in November/December 2005.

23-25 May The IPO/COMET NPOESS curriculum development workshop in at COMET, Boulder, was attended.

1 June Dr. Jim Purdom, CIRA, visited EUMETSAT to coordinate the activities on the WMO Virtual Laboratory.

9 June EUMETSAT visited the WMO directorate on Education and training in Geneva to coordinate the common training activities.

20 September The 2<sup>nd</sup> EPS/EUMETCast dissemination workshop was organised and held at the EUMETSAT conference in Dubrovnik.

During 2005 EUMETSAT had also started to provide distance learning lectures using the VisitView tools. Below is a list of lectures so far:

<b>Date</b>	<b>Location</b>	<b>Event</b>	<b>Comments</b>
15 March	EUMETSAT	VisitView session	San José, Costa Rica
6 April	EUMETSAT	VisitView session	Distance Learning presentation
25 May	EUMETSAT	VisitView session	Distance Learning presentation support to SAWS, Pretoria
15 July	EUMETSAT	VisitView session	Distance Learning presentation support to PUMA Course, Pretoria
27 July	EUMETSAT	VisitView session	Distance Learning presentation support to SAWS, Pretoria

It is worthwhile to mention that from end of October 2005 onwards regular training lectures will be offered via EUMETSAT's new Web pages 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)

In addition EUMETSAT sponsored the European training projects EUMeTrain and EUMETCAL and was actively involved in the coordination of these new European training projects. EUMeTrain will develop training material for satellite meteorology and remote sensing, while EUMETCAL has become the European Virtual Organisation for training in meteorology. Thus, EUMETCAL, as a project of EUMETNET, is providing an umbrella for European training activities in all areas of meteorology. EUMETCAL is supported by EUMETSAT and managed by the Finish Met. Service in Helsinki.

Finally, Mr. Hakan Kocak from the Turkish Met. Service completed a nine-month graduate-trainee period at EUMETSAT in September 2005.