

EUMETSAT and Centres of Excellence Trainings

Vesa Nietosvaara, EUMETSAT

WMO – CGMS Centres of Excellence



South Africa & Kenya – English

Niger and Morocco – French

Oman – [English / Arabic]

Supported by EUMETSAT

Our approach to training

- EUMETSAT and CoE cooperation in training has a very long history
- Our cooperation is based on **partnerships** leveraging the resources, infrastructure and expertise of others
- All training initiatives have objectives that relate to a specific audience and specific job roles
- Application orientation: the training events focus on applications rather than instruments

ORGANISATION MÉTÉOROLOGIQUE MONDIALE



WORLD METEOROLOGICAL ORGANIZATION

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Our ref.: 9-605/E/RAA-I
Your ref.: EUM/OPS/GB/

DIR'S OFFICE	
Received on:	3647
Date	Action
9-6-99	
DIR	
H/T	
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H/OPS	X
PCO/EK	
INF/MGP	
SIR/DW	
SIR/PAG	
DIR/AFR	
FILE	

Dr Tillmann Mohr
Director
EUMETSAT
Postfach 10 05 55
64205 DARMSTADT
Germany

GENEVA, 16 September 1999

Dear Dr Mohr,

I wish to refer to your letter dated 18 August 1999 and to thank the EUMETSAT and other sponsoring agencies for the successful completion of the first African Satellite Meteorology Education and Training (ASMET) project.

The EUMETSAT plan for training is closely related to the WMO Strategy for Education and Training in Satellite Matters approved by the Executive Council in 1993. The WMO has duly noted that, in recent years, the EUMETSAT has been assisting national Meteorological and Hydrological Services in various training programmes with the main goal to systematically improve the use of satellite data for meteorological and hydrological applications in all Member countries with a focus on meeting the needs of the developing countries in Africa.

The ASMET project is a valuable example of synergistic activity in meteorological education and training with emphasis placed on the development of satellite computer-aided learning (CAL) material. Under the auspices of the project, CAL modules were specifically designed and widely distributed among the WMO Regional Meteorological Training Centres (RMTCs) and the meteorological user community in Africa. The benefits of CAL training techniques became an integral part of satellite training throughout Africa and therefore a proposal for the continuation of the project is of great importance.

ASMET group

- Expert group of trainers from Vlab training centres
- Looks into the training needs, including MTG
- Supports training events
- Vlab contact point for MTG and other training topics
- Resources and training opportunities available at <https://asmet.africa>



ASMET

African Satellite Meteorology
Education and Training



Promoting both online and face to face learning

RA-I Cours Interprétation de base de l'imagerie satellitaire 2024

Course Settings Participants Grades Reports More ▾

Bienvenue

RA-I Cours Interprétation de base de l'imagerie satellitaire

6 - 24 mai 2024

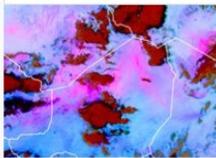
Ce cours sur les applications satellitaires en langue française est destiné aux prévisionnistes en Afrique, quels que soient leurs niveaux d'expérience professionnelle. Le cours comprend des sessions et des discussions en direct entre des prévisionnistes de différents niveaux d'expérience.

L'objectif principal est de se concentrer sur l'interprétation de base des images satellitaires dans les centres météorologiques et l'utilisation des produits satellitaires largement disponibles pour améliorer la compréhension de la météo quotidienne.

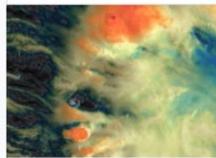
Semaine 1: Produits ...



Semaine 2: Identificat...



Semaine 3: MTG



Produits satellitaires

Compositions colorées RVB VHR nuages (VHR-VHR-IR10.8i)

RVB HRV nuage : 12, 12, 09i

White

Cirrus

Ns / Cb

Ac

Low cloud

Land Sea

EUMETSAT

METEOSAT 3ème Generation MTG

Mustapha BOUHOU
Prévisionniste Marine / DGM
Membre ASMET

22 Avril 2024, RA-I Cours Interprétation de base de l'imagerie satellitaire 2024

Cloud Phase RGB

Gulf of Guinea - 18 March 2023, 12-17 UTC

HP Roessli

- Reveals cloud phase (water, ice)
- Reveals the size of cloud particles - droplets or ice crystals
- light- to dark-pink hues >> water clouds with increasing droplet size
- the middle-blue spots correspond to freezing/frozen tops

PLUIES ORAGEUSES LE 05 MAI 2024 en GUINEE

image d'infrarouge, MSG-AFR IR_108

Prénom: **Batrou Sekou**

Nom: **TRAORE**

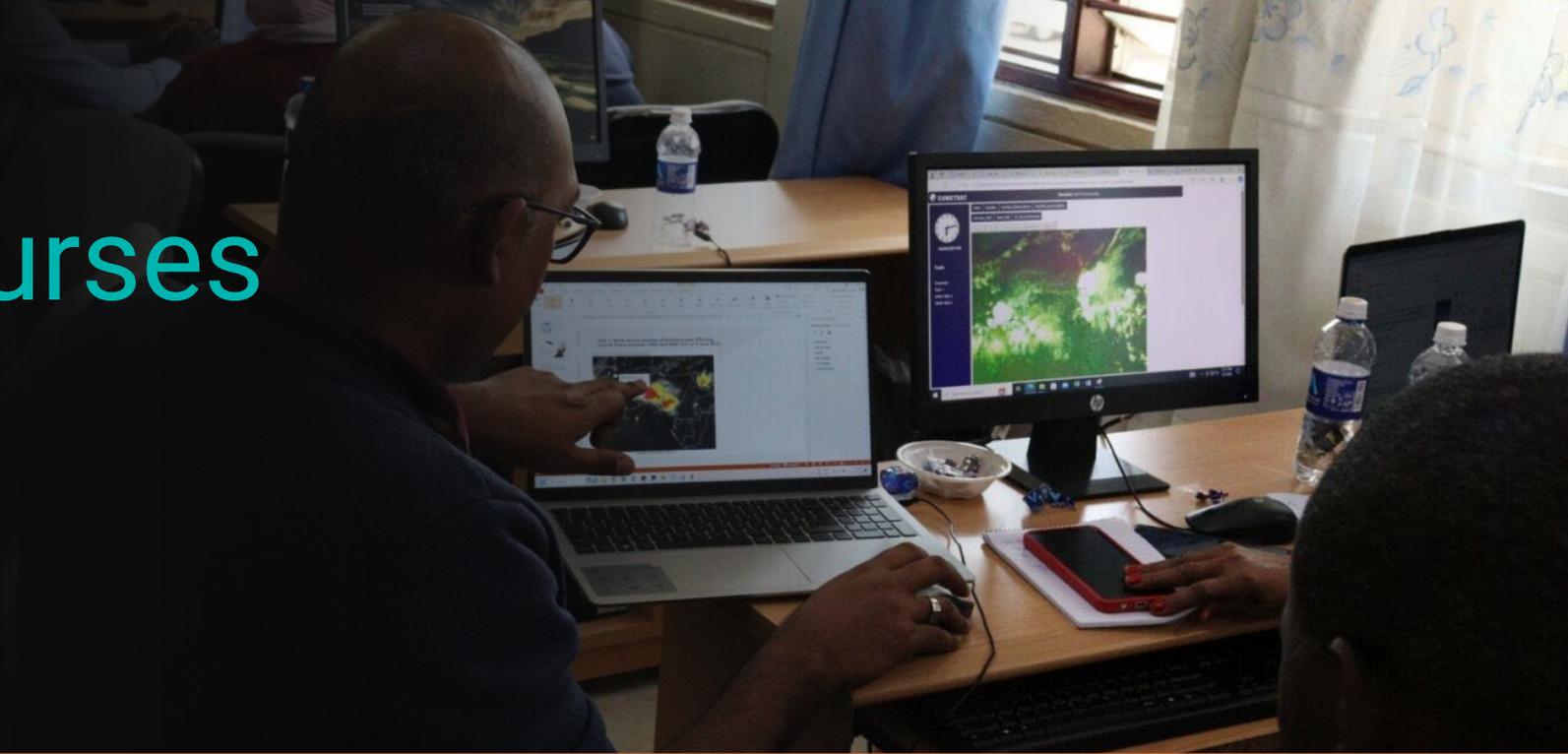
Le 05 mai 2024 à partir de 19heures la Guinée Conakry a connu des pluies fortes et averses

Activité orageuse le 11 mai 2024

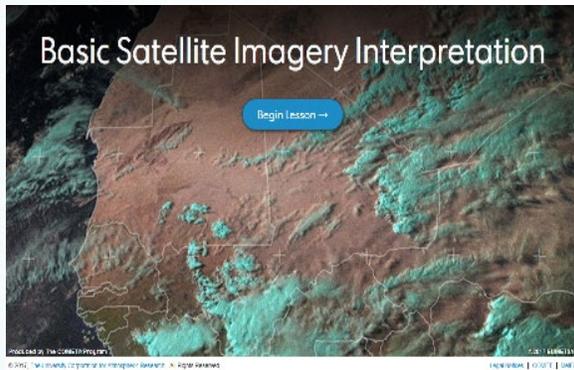
RADEGA AKEWANA Raïssa Prisca

une image satellitaire RGB convection sévère, le 11 mai 2024 à 15h00 montre des masses orageuse en formations au Nord-Ouest et au Sud du Gabon. Dans la zone du Nord-Est et du Sud-Est nous observons cellules orageuses en activités. Ceci avait occasionné des dégâts

Classroom courses for hands-on practice and application



Variable course formats support learning at all stages



Basics
Self-Study



RA-I Basic
Satellite
Imagery
Interpretation
Course

Facilitated
Online
Course



Classroom
Course at
CoE

Upcoming training events in Africa

- Satellite Application Courses continue in 2025
 - Online courses in both English and French
 - Classroom courses for advanced / specialised training, online course completion required.

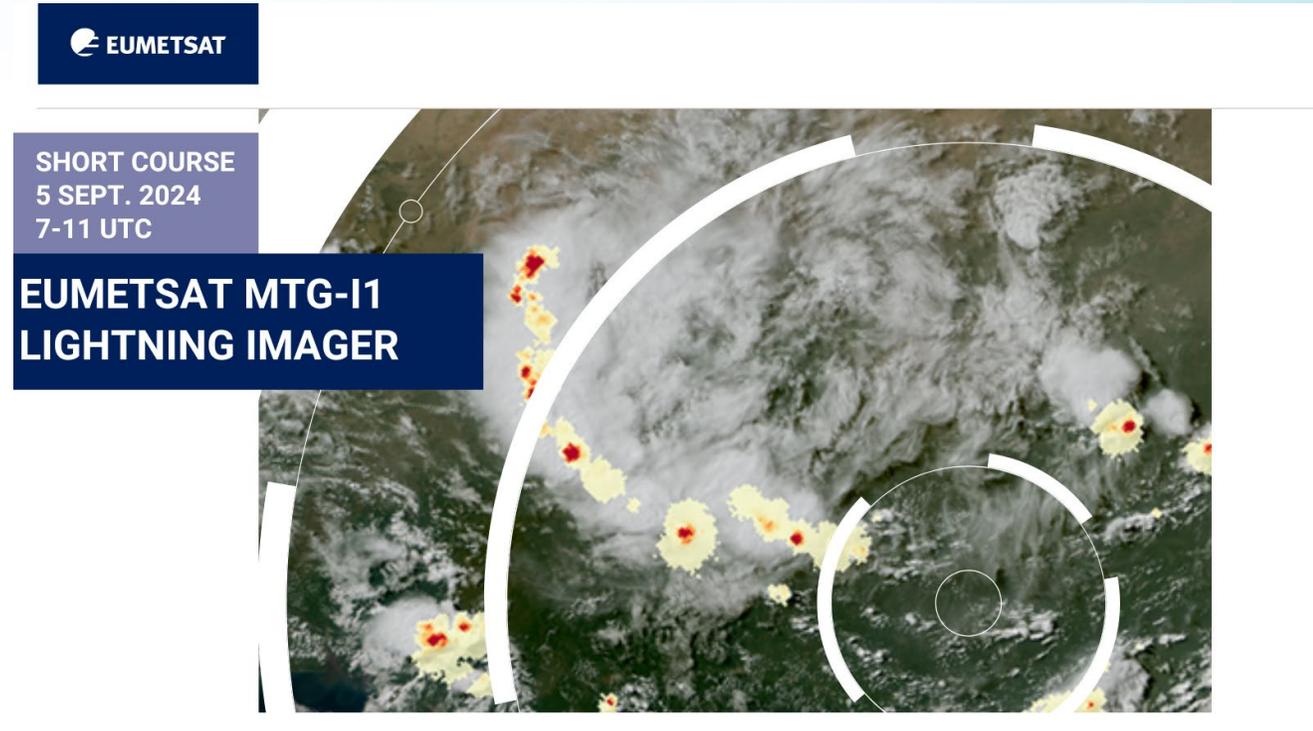
- WMO Train the Trainers MTG workshop
 - At EAMAC, Niger, November 2024
 - At Muscat, Oman, January 2025

- PUMA / ClimSA Training of Trainers courses kicking off in November 2024
 - System administration (PUMA & ClimSA stations)
 - PUMA applications
 - ClimSA applications

- PUMA / ClimSA user trainings to begin later 2025

MTG Training

- Part of our core training as the data and products become available
- Special short courses on new instruments available online (LI and FCI)
- Training Needs to be identified:
 - Training centres
 - Here (Feedback from yesterday WG#3 and WG#4 important)
 - RAIDEG



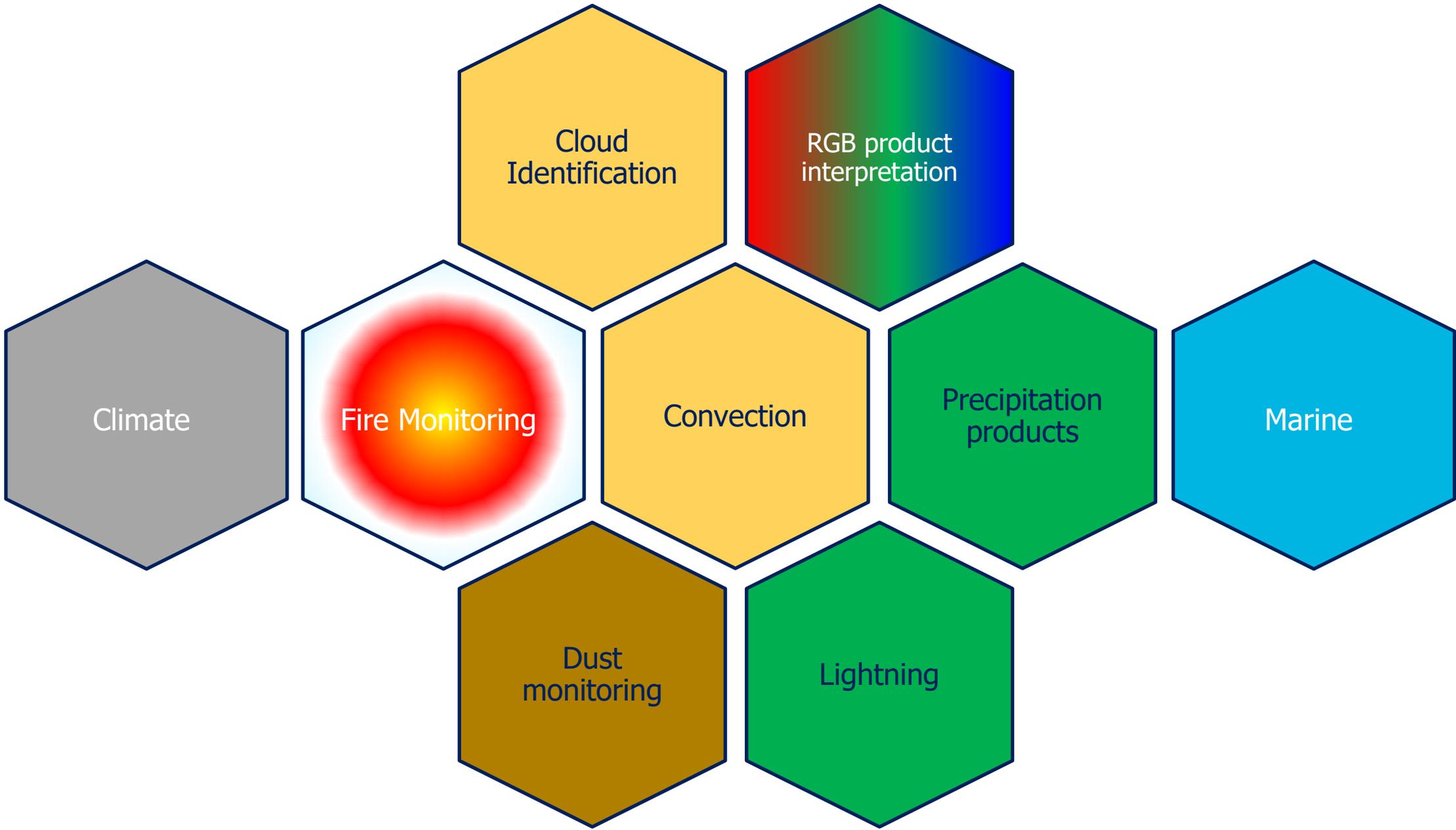
The goal of MTG related training is to ...

... help the operational meteorologists and other users be aware of upcoming MTG capabilities;

... and to use them in their everyday work, particularly for nowcasting.

! Emphasis on Nowcasting will increase: training events for MTG integration with other weather data (test-bed approach)

! Need for Africa-specific case studies and Quick Guides using MTG



Internet

Connection

Awareness

Available courses
Timely announcements

Skills

Integration of satellite with other data

Access

One participant per country per year is not enough
Online training solutions necessary

Readiness

Understanding the products when they become available
Using them in operations

Thank you!

vesa.nietosvaara@eumetsat.int