EUMETSAT VLMG-9

Satellite Applications Courses

Achievements:

Maintained continuous training programme in collaboration with VLab Centres of Excellence in Africa (Morocco, Niger, Kenya, South Africa), Oman and Russia.

Started implementing weather feature based satellite application courses, in order to make the learning more relevant to the target audience (operational meteorologists).

Major Challenges:

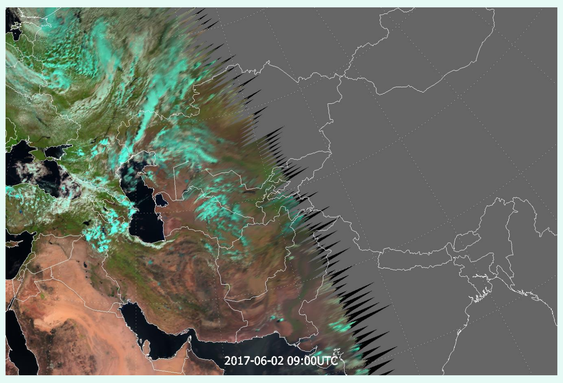
Being aware of the user needs, choosing the right approaches for instruction.

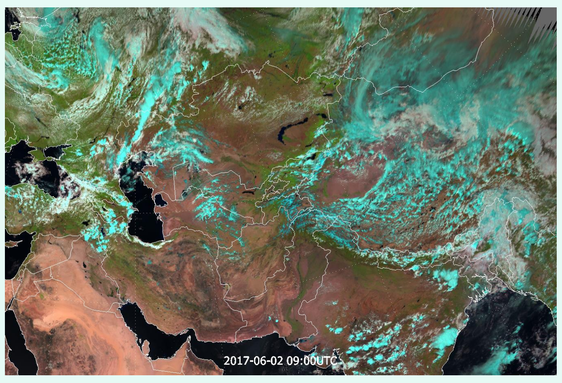
Coordination of the courses in practice requires agreement of the training goals and a frequent communication between the satellite operator and the CoE.

Future plans:

Enhance the online courses, make them accessible for more participants.

Having more course resources in French language for the FR courses in the region.

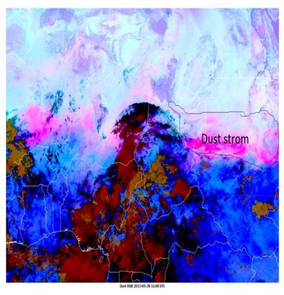




The relocation of Meteosat-8 satellite over the Indian Ocean has increased the availability of multi-spectral imagery for a big number of users over Eurasian plateau. Day Natural Colour RGB 2 June 2017 09 UTC, Meteosat-10 (top left) and Meteosat-8 (top right).

A Vlab training event was organised in Moscow for Russian and CIS countries in collaboration with Russian Vlab (bottom left) in June 2017. The main objective was to increase the participants' skills in using the newly available Meteosat-8 data over their regions.

My favorite Image



➢Dust RGB: Quite interesting in identifying how dust storm was being advected by the northerly wind component from the north towards the in sudan.

➢How the storms were moving west to Chad as the dust storm followed.

The Satellite Application Courses are now based on weather systems. The online phase is based on identification and analysis of the weather systems and the classroom phase introduces the integration of NWP and other information aspects for the forecasting environment. SAC course 2016 in Nairobi hands-on analysis session (top left) and a page from participant's presentation at the final summary session (top right).

Climate Services

Achievements

Training courses in application of the gridded satellite data alongside national in-situ data

Provision of tools to read, manipulate and display the data, including integration into RInstat

Challenges

Helping people decide which data suit the requirements

Raising awareness to the importance or re processed data

More demand than capacity to meet

Linking to down-stream applications

Not having a really good precipitation data set over land

Plans

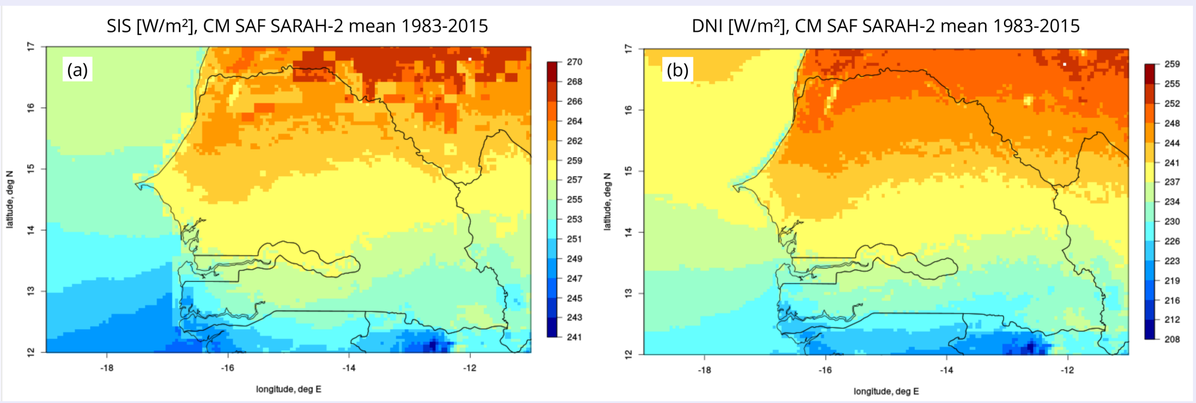
Continue courses and placements in Africa and Europe

Support and advise EU GFCS ACP project

Collaboration opportunities

Support RCCs in the ACP project

Share application cases



ASMET

Achievements:

ASMET team together with EUMETSAT has produced during the past 21 years a number of satellite learning lessons, in cooperation with COMET. This achievement is only possible through all four African Vlab Centres of Excellence, EUMETSAT and COMET working together.

As a part of ASMET review we carried out a survey about users' needs in Africa. The results of the survey were used in evaluation of what ASMET team would need to focus in the future. As an outcome ASMET team has prepared specific exercises for identifying weather systems that the users regards as challenging. These exercises are openly available at EUMETSAT Training Library.

Currently the team is working on topics related to help the operational users to integrate NWP and Satellite information in their forecasting process.

Major Challenges:

Team members have often challenges in allocating time for ASMET work aside their usual training duties. The success of the team depends on the support from their training institutions.

Coordinating the work of this virtual team can be challenging, when frequent face-to-face meetings are not possible.

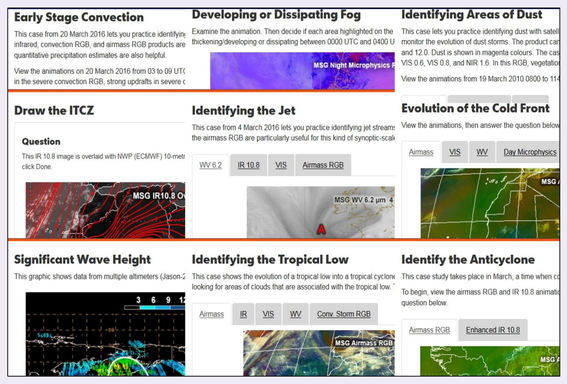
Future plans:

The team intends to review the needs for continuing the work on satellite & NWP integration, as it is a large and important area for operational forecasters.

Main interests for project collaboration:

Impact based forecasting topics.

ASMET Project team at EUMETSAT, July 2017.



ASMET Weather Exercises (ASMET9 project), available for all satellite trainers.

Data Services

Achievements

EUMETSAT has implemented a set of data service "pathfinder" projects to explore new data service possibilities

These cover sat centre access, format manipulation, hosted processing, web access services (using OGC standards)

Challenges

How to handle all the formats, projections and make discovery easy

How to display GEO and LEO data at the same time and handle time

Develop something that makes sense to meteorologists of all kinds, other users of satellite data and the general public

Plans

Testing with (mainly) European users during 2018

Late 2018 decide on way forward

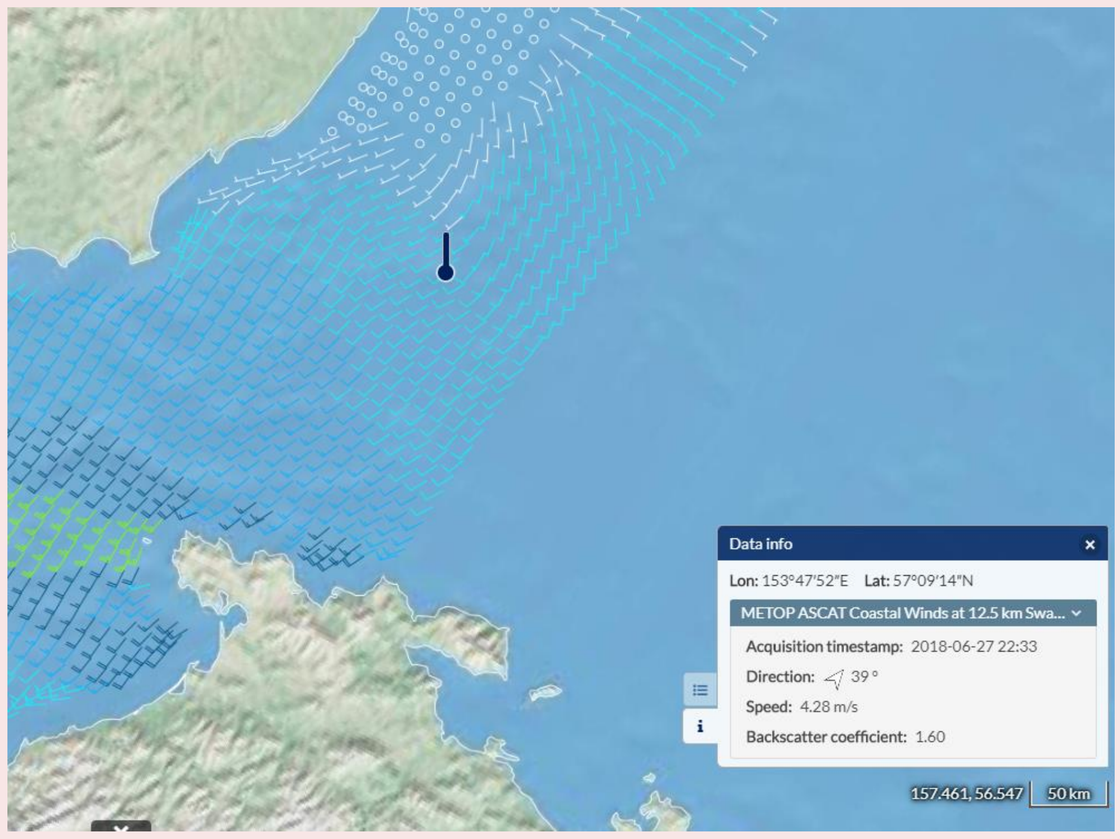
2019+ develop future services

Collaboration opportunities

Scope for working out how to use the hosted processing services for training

What data and tools would be useful in a hosted environment?

What are the non-weather opportunities .



Example of ASCAT data in the new interface.