



Leveraging Satellite Assets through a global Network of Competency Training in Meteorology



Coordination Group for
Meteorological Satellites





Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Precipitation Week

This training week consisted of eight online sessions dealing with the monitoring of precipitation from space. The event comprised three topics:

1. VIS/IR Precipitation Estimates,
2. Microwave Precipitation Estimates, and
3. Multi-sensor Precipitation Estimates.

Event:	Precipitation Week
Date:	4-8 February 2013
Initiative:	EUMETSAT
Online sessions:	eight
Registered*:	881
Attended live*:	547 33 countries
Played the recorded session**	72

* Numbers presented are the total for the 8 sessions.

** Data from 24/05/2013



Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

WMO/NOAA Train the Trainer Workshop for WMO RA III/IV

This Workshop preceded the 2013 NOAA Satellite Conference (8-12 April).

It was organised by VLab and the WMO Space Programme, and supported by NOAA as hosts.

The event had 22 participants.

Main topics:

- ❖ GEONETCast (GNC);
- ❖ Supporting systems, EUMETCast, HRIT/EMWIN/LRIT, GEONETCast-Americas, and GOES Data Collection System;
- ❖ Review of regional requirements and integration of regional dissemination systems;
- ❖ System demonstrations.



Main Achievements

Since CGMS-40 2012

WMO/NOAA Train the Trainer Workshop for WMO RA III/IV

Workshop participants raised some key concerns:

- ❖ In Central and South America and the Caribbean, operational users of satellite data from GOES and other systems require a low-cost, operational and sustained data dissemination system building on GNC-A and EUMETCast. Arrangements for cost-sharing, e.g. of bandwidth fees, should be developed with urgency.
- ❖ Training on the use of satellite data and associated visualization, processing and analysis tools should be made available, taking into account the different needs and skills of satellite data users. Training should in particular involve preparing users from the region for GOES-R.
- ❖ The proposed standing coordination group for satellite data requirements in RA III and IV should establish user needs for data, products, training, and associated issues (e.g., data formats).



Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Conceptual Models for the Southern Hemisphere

- ❖ To collect, create and share resources about CMs for Southern Hemisphere.
- ❖ To increase the operational forecasters' understanding of the weather systems with the help of CMs.



Four VLab Centres of Excellence are involved in the Project.



CGMS



Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013: Conceptual Models for the Southern Hemisphere

Project deliverables:

- 1.A comprehensive list of existing literature
- 2.A quick-look collection of interesting CM cases
- 3.Some fully developed CMs, in SATMANU style



Resources
available at VLab
website

<http://www.wmo-sat.info/vlab/conceptual-models-southern-hemisphere/>

**Coordination Group for
Meteorological Satellites**





Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

World Wide Weather Briefing

This training week consisted of nine online sessions focusing on challenges that forecasters have to face around the globe. The presenters from Canada, USA, Brazil, Portugal, Oman, South Africa, Germany, Russia, South Korea and Australia guided the audience through the regional weather characteristics.

Event:	Precipitation Week
Date:	20-24 May 2013
Initiative:	EUMeTrain
Online sessions:	nine
Registered*:	814
Attended live*:	448 34 countries
Played the recorded session**	25

* Numbers presented are the total for the 9 sessions.

** Data from 01/07/2013

Resources are available at
EUMeTrain website

http://www.eumetrain.org/events/www_briefing_2013.html





Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Virtual Round Table on Competence Requirements for Aeronautical Meteorological Personnel

This is a series of online events covering the information on the new WMO regulations on Aviation Meteorology Competency and related matters.

The event has been presented in English, Spanish, French and Russian.

Organised by VLab in collaboration with the WMO Commission for Aeronautical Meteorology Expert Team on Education, Training and Competences (CAeM ET/ETC) and the International Civil Aviation Organization (ICAO).



Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Virtual Round Table on Competence Requirements for Aeronautical Meteorological Personnel

English Version

Presented by Kathy-Ann Caesar and Adanna Robertson-Quimby (CIMH, VLab Barbados)



Vilma Castro
Costa Rica



Hamidou Hama
ASECNA



Kate Chumak
Roshydromet

Event:	VRT - English
Date:	27 March 2013
Initiative:	VLab
Registered:	103
Attended live:	34 connections
Played the recorded session*:	20
* Data from 24/05/2013	

Resources available at VLab website

<http://www.wmo-sat.info/vlab/virtual-table/>



CGMS



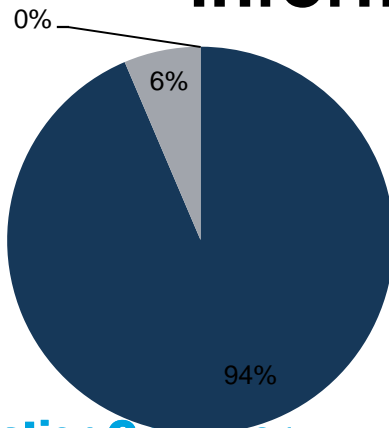
Main Achievements

Since CGMS-40 2012

Virtual Round Table on Competence Requirements for Aeronautical Meteorological Personnel

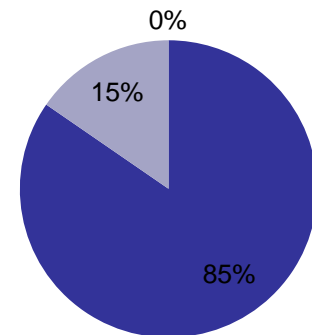
Valuable information collected

Was this session informative?



Coordination Group for Meteorological Satellites

Did the presentation clarify any of the questions you had...



■ Yes.. ■ No..



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Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Virtual Round Table on Competence Requirements for Aeronautical Meteorological Personnel

Countries Reached by the VRT so far

Presentations in Arabic, Chinese and Portuguese are being considered.

What is still needed?

- Help with translation

Can you help?



**Coordination Group for
Meteorological Satellites**



Main Achievements

Since CGMS-40 2012

Latest Training Activities - 2013:

Satellite Direct Readout Event

This is a series of online events about the direct readout capabilities of polar orbiting systems.

EUMETSAT started this series of events by presenting two sessions about the EPS/Metop .

Upcoming: NOAA sessions

Event:	Satellite Direct Readout
Date:	7-8 May 2013
Initiative:	VLab
Online sessions:	two
Registered*:	63 18 countries All WMO-RA
Attended live*:	25 connections 12 countries WMO-RA: I, III, IV, VI
Played the recorded session**:	12 6 countries WMO-RA: III, IV, VI

* Numbers presented are the total for the 2 sessions.

** Data from 01/07/2013



WMO VLab Trust Fund

Overview

WMO VLab Trust Fund in place since 1 Sep 2012

- ❖ To collect contributions (in cash) by CGMS members to fund VLab technical support.
- ❖ No WMO cash contribution;
- ❖ Solely relying on CGMS;
- ❖ Pre-2012 Support by INPE, NESDIS, EUMETSAT through bilateral support.

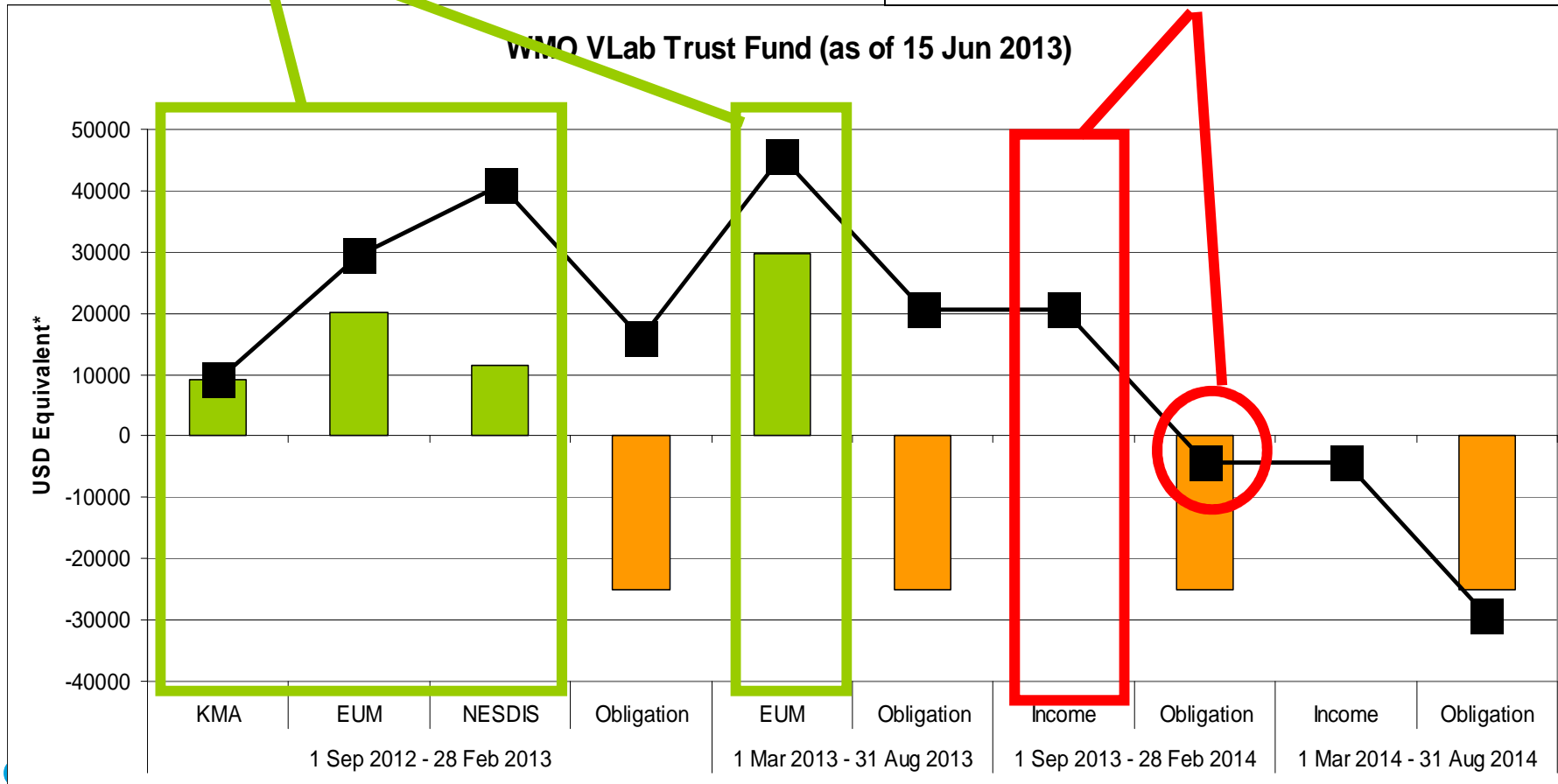
- ❖ VLab Technical Support Officer Ms Luciane Veeck, employed through CIRA/Colorado State University, Boulder, USA.
- ❖ WMO Letter to all CGMS members on 12 December 2012 (7540-12/OBS/SAT/VL) with 2013 funding request.



WMO VLab Trust Fund Overview

CGMS Member Contributions

Insufficient funds on 1 Sep 2013



*USD equivalent as per exchange rate on date of transaction; includes deduction of 1% WMO overhead



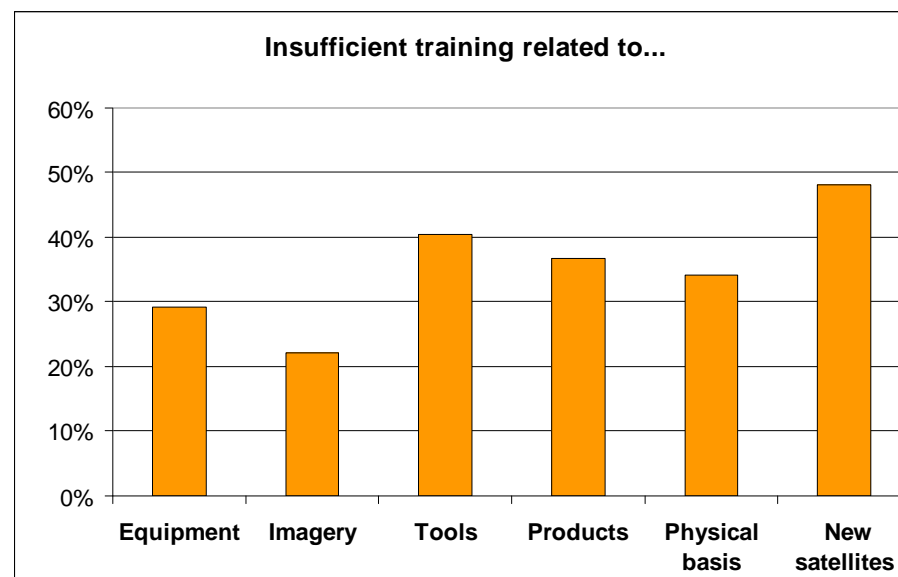


Future Challenges

VLab Management Group Meetings The WMO 2012 Survey on the Use of Satellite Data

Main Training Challenge:

“Many users feel insufficiently prepared for the new generation of operational satellites planned for 2014-2020.”



VLab Action: To discuss the “Challenges to Training” that were identified in the survey and to have a structured response planned by the end of 2013.



Plans

From VLMG-6

Widening the scope of VLab

- ❖ To address additional application areas for training, in line with the VLab 5-year strategy and WMO priorities.
- ❖ Emphasis will be given to conduct new training courses for climate, marine and land surface applications.
- ❖ Intensify cooperation with other partners (e.g. COSPAR, CEOS)



Plans

Upcoming Training Opportunities 2013:

- ❖ **Regional Focus Groups (RFG)** – Offered monthly by RFG Americas and Caribbean and the Caribbean Weather Discussion Group. On a less frequent basis, sessions by the RFG South Africa, CoEs Australia and Niger. Two new RFG have started recently: RFG Morocco (French) and the Russian RFG (first session today, the 12th of July 2013);



Plans

Upcoming Training Opportunities 2013:

- ❖ **Event Weeks** – CoE Australia is running another event week this year. The event, called “Science Week”, will comprise 20 online sessions starting on the 22nd of July. All online sessions are open to international participation. Timetable and registration can be seen at

<http://www.virtuallab.bom.gov.au/events/science-week/timetable/>



Plans

Upcoming Training Opportunities 2013:

- ❖ **Online Calendar of Events** – All VLab training opportunities are kept up to date in the VLab Online Calendar of Events at <http://www.wmo-sat.info/vlab/calendar-of-events/>

Coordination with Partners Programmes:

- ❖ COSPAR - Capacity Building Workshop and WMO Training Course on satellite remote sensing, Russian Federation – Summer 2014.



Recommendations

- ❖ CGMS members to provide regular, annual contributions into the WMO VLab Trust Fund to ensure the continuation of the post of the VLab TSO;
- ❖ Satellite operators and WMO to provide necessary resources for the translation of relevant training resources (websites, modules and related) into other WMO languages;
- ❖ CGMS members to take note of the results of the WMO 2012 Survey and to support relevant actions by the VLab to further enhance the use of satellite data.



Keeping up to date

Keep up to date with VLab Activities at

<http://vlab.wmo.int>

- ❖ Online Calendar of Events
- ❖ VLab News
- ❖ Regional Focus Groups
- ❖ Projects
- ❖ VLab Newsletter



COORDINATION GROUP FOR METEOROLOGICAL SATELLITES

- CGMS -

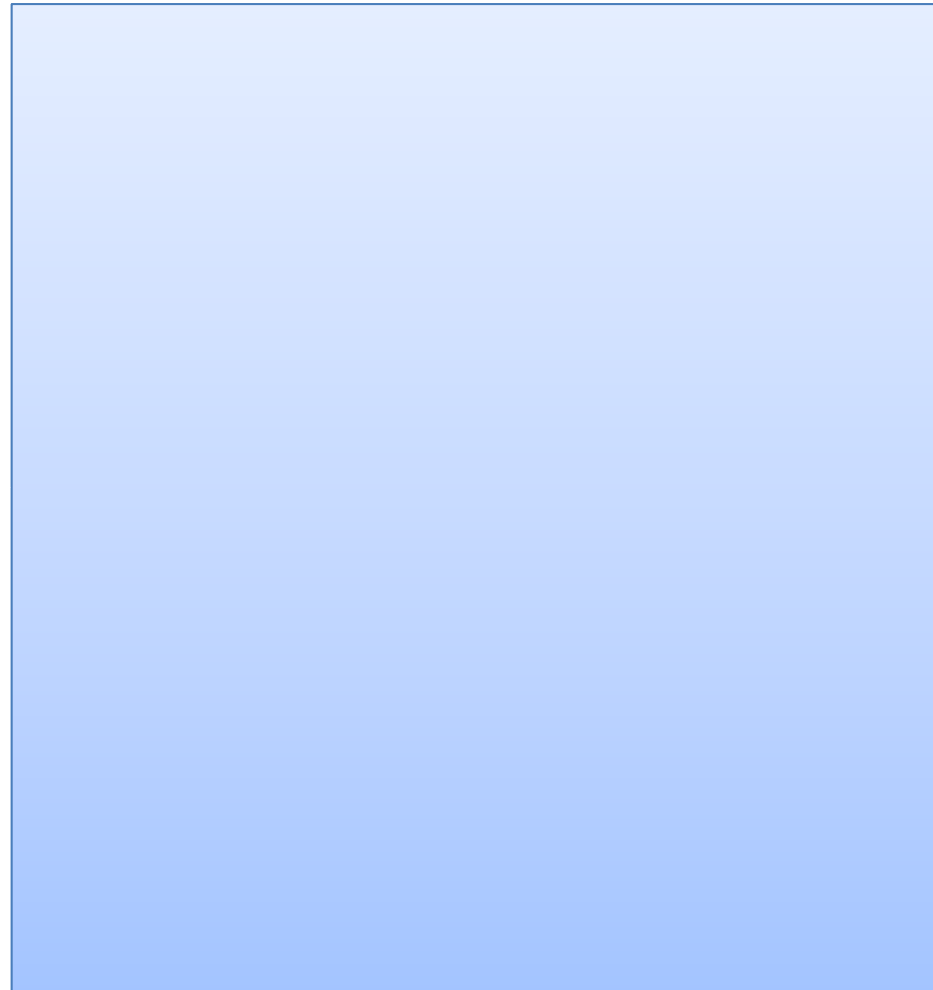
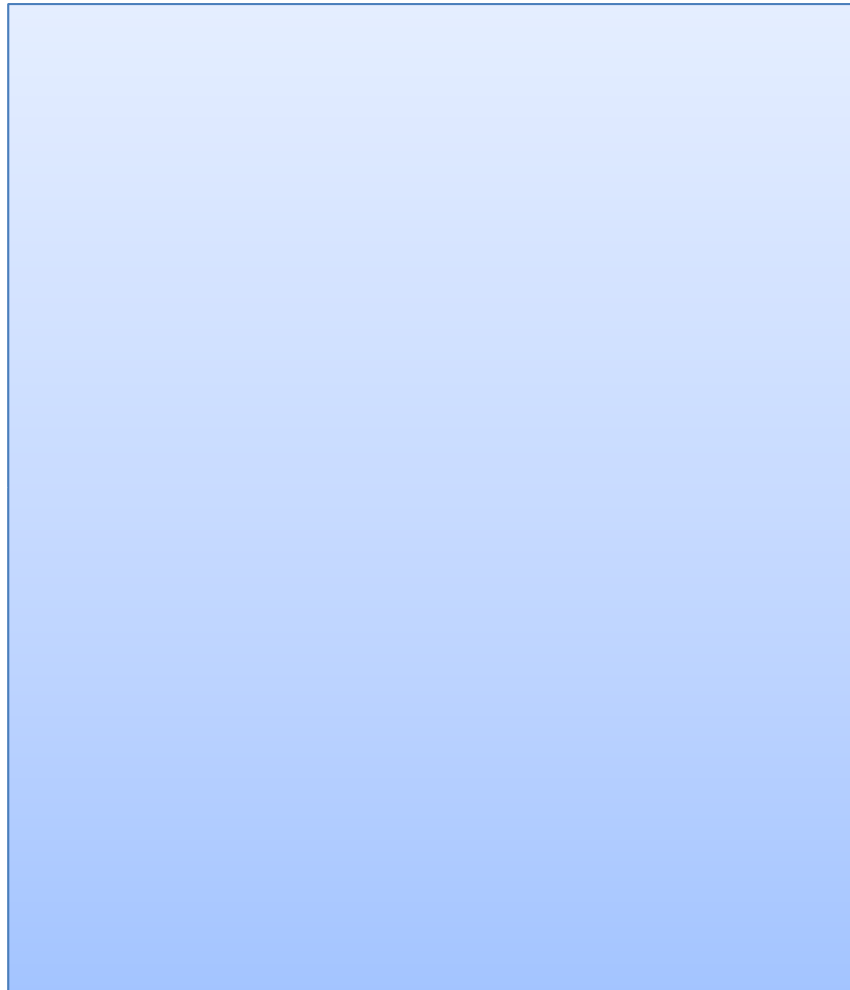
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