

Satellite User Readiness through Training: VISIT, SHyMet, WMO VLab, and Liaisons

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⁴ NOAA/NWS/NCEP/WPC International Desks

⁵ WMO Virtual Lab for Education and Training in Satellite Meteorology



AMS 97 January 2017



What are the best training resources to prepare you for new satellites?

That depends on

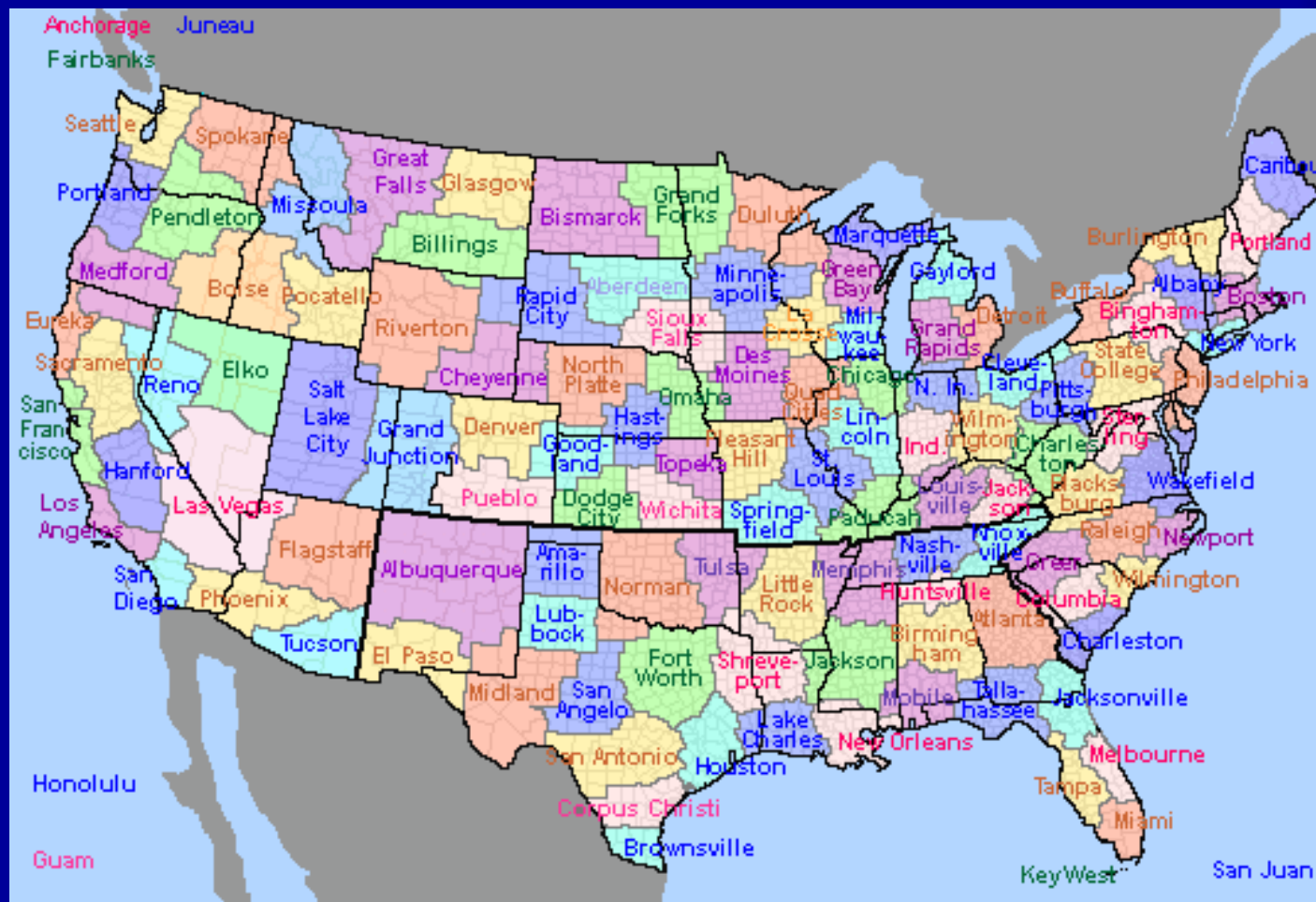
- What type of user you are
- What level user you are

Who are the users?

National & International

- Focus: National Weather Services ★
- Training is also applicable to:
 - Other trainers
 - Academia
 - Weather Enthusiasts
 - Managers (Public and Private)
 - Media / General Public

NOAA National Weather Service - Users



122 Weather Forecast Offices
13 River Forecast Offices
22 Center Weather Service Units

International Users



From more
than 36
countries

What are the user levels of understanding?

Knowledgeable

Capable

Skilled

Expert

What are the main training challenges?

- Adapting and presenting information for **all** audiences.
- Providing hands-on learning
- Keep materials simple and short



Virtual Institute for
Satellite Integration Training
Launched in 1998

Mission: To accelerate the transfer of research results from atmospheric remote sensing into NWS operations

Method: Distance education techniques: teletraining and online modules

Focus: Applications / Single topics

<http://rammb.cira.colostate.edu/visit/>



Satellite Hydrology and Meteorology

COURSES dedicated to
operational satellite meteorology

Intern / Forecaster / Severe Weather / Tropical

New this past year:

SATellite Foundation Course for GOES-R/16 (SatFC-G)

On the horizon:

SATellite Foundation Course for JPSS (SatFC-J)

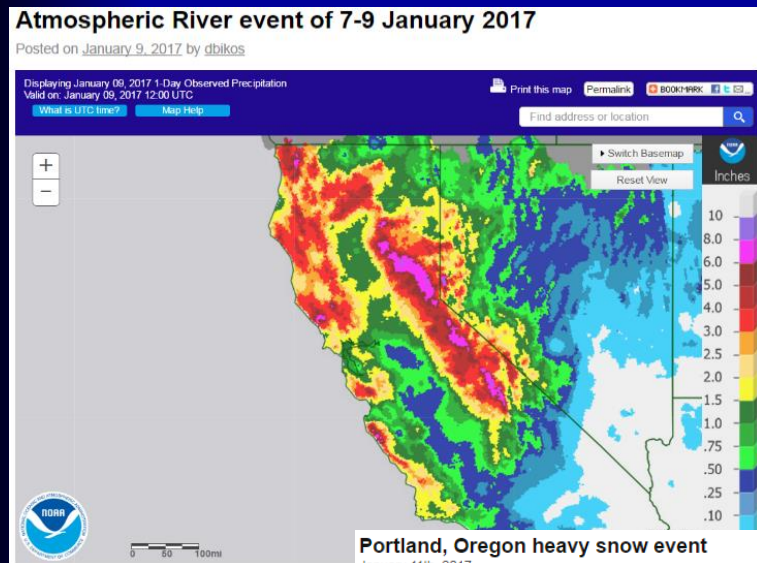


<http://rammb.cira.colostate.edu/shymet/>



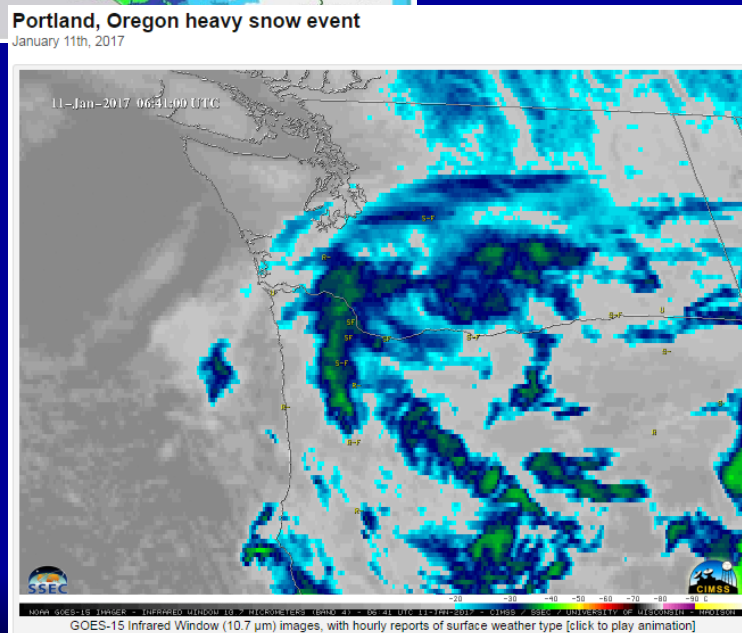
Additional Focus

<http://rammb.cira.colostate.edu/visit/>



Blogs

- VISIT Home
- Training Sessions
- Training Calendar
- Blog Sites
- VISIT Satellite Chat
- VISIT Satellite Help Desk
- The VISIT Program
- VISIT Contributors
- VISIT FAQ
- Links / Tutorials
- RAMSDIS Online



Additional Focus

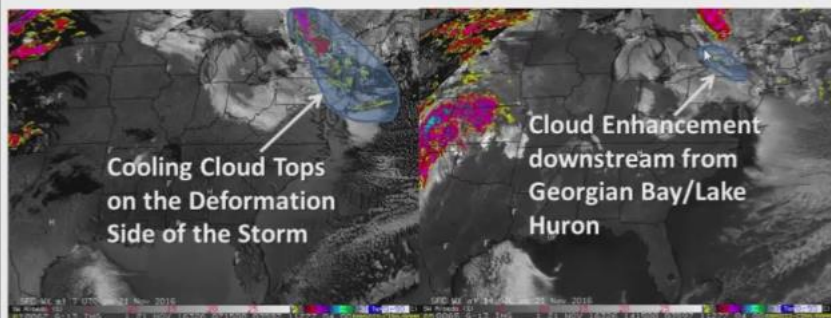
The “Super” Lake-Effect Event of 19-21 Nov 2016 across Western/Central NY

Michael L. Jurewicz, Sr.
NOAA/NWS, Binghamton, NY
VISIT Satellite Chat
15 December 2016

Synoptic Support + Significant Upstream Lake Connectivity

07z, 21 Nov 2016

14z, 21 Nov 2016



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Monthly Virtual VISIT Satellite Chat

Additional Focus

New last week:
Virtual Office Hours

NWS VLab Help desk 

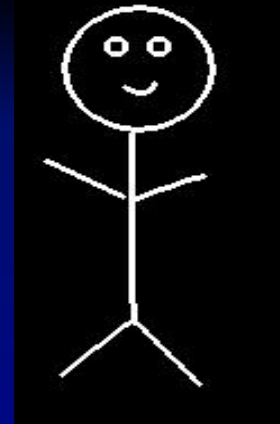
VISIT - Virtual Institute for Satellite I... +

<http://rammb.cira.colostate.edu/visit/>

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Liaisons



- Assess user needs
- Develop and promote *directed* training
 - National Hurricane Center
 - JPSS Program
 - GOES-R Proving Ground activities with local offices
- Gather feedback
- Promote dialogue and exchanges between the researcher and forecaster.

WMO Virtual Laboratory for Education and Training in Satellite Meteorology



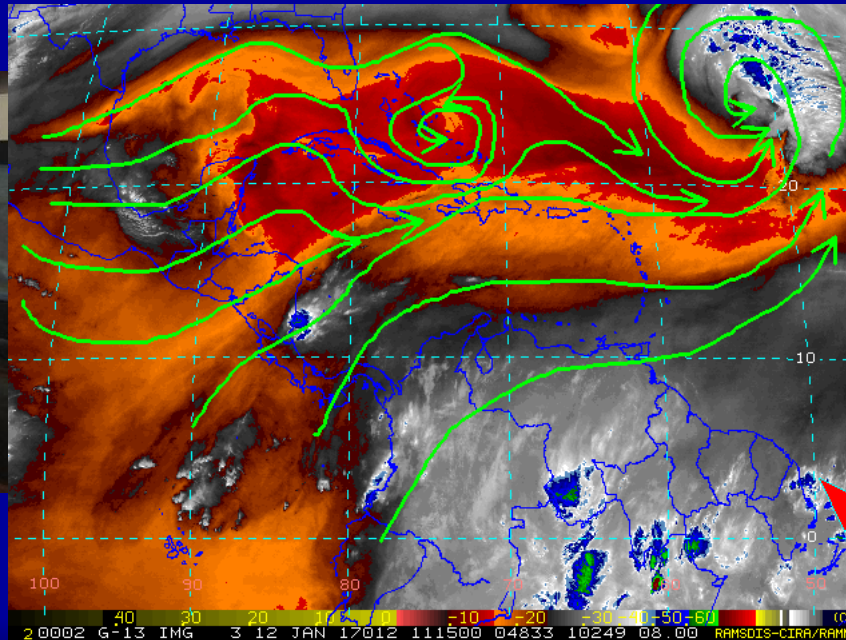
A worldwide collaborative network connecting training Centres of Excellence (CoEs) and Satellite Operators

Mission: To improve the utilization of data and products from meteorological and environmental satellites.

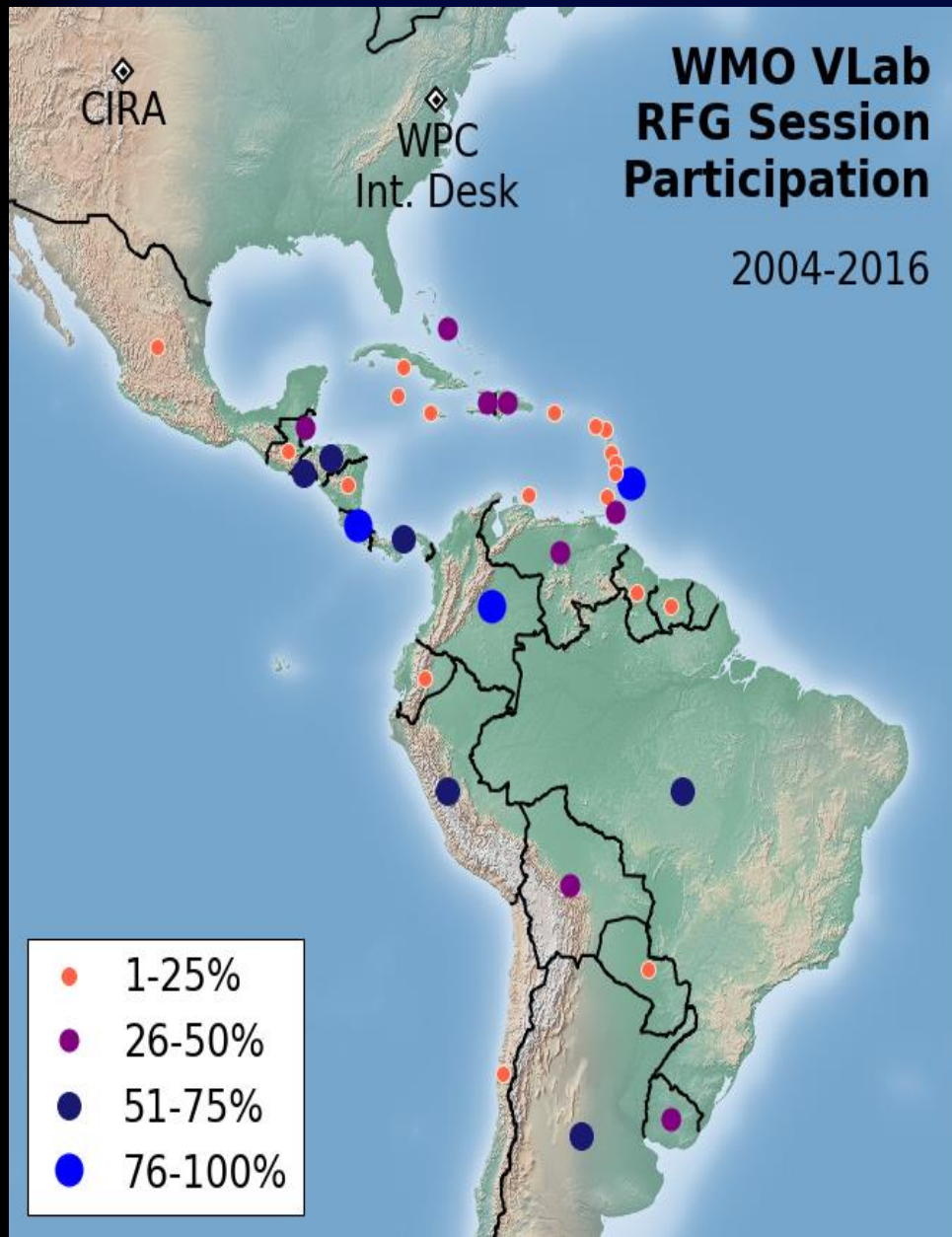


Designated Technical Support Officer:
Luciane Veeck

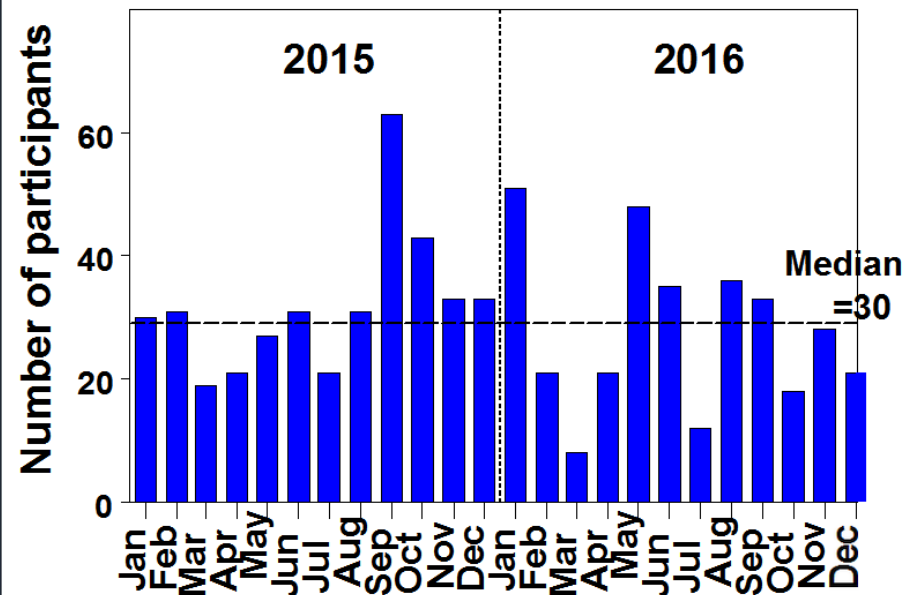
Monthly Regional Focus Group Weather Discussions for the Americas and the Caribbean



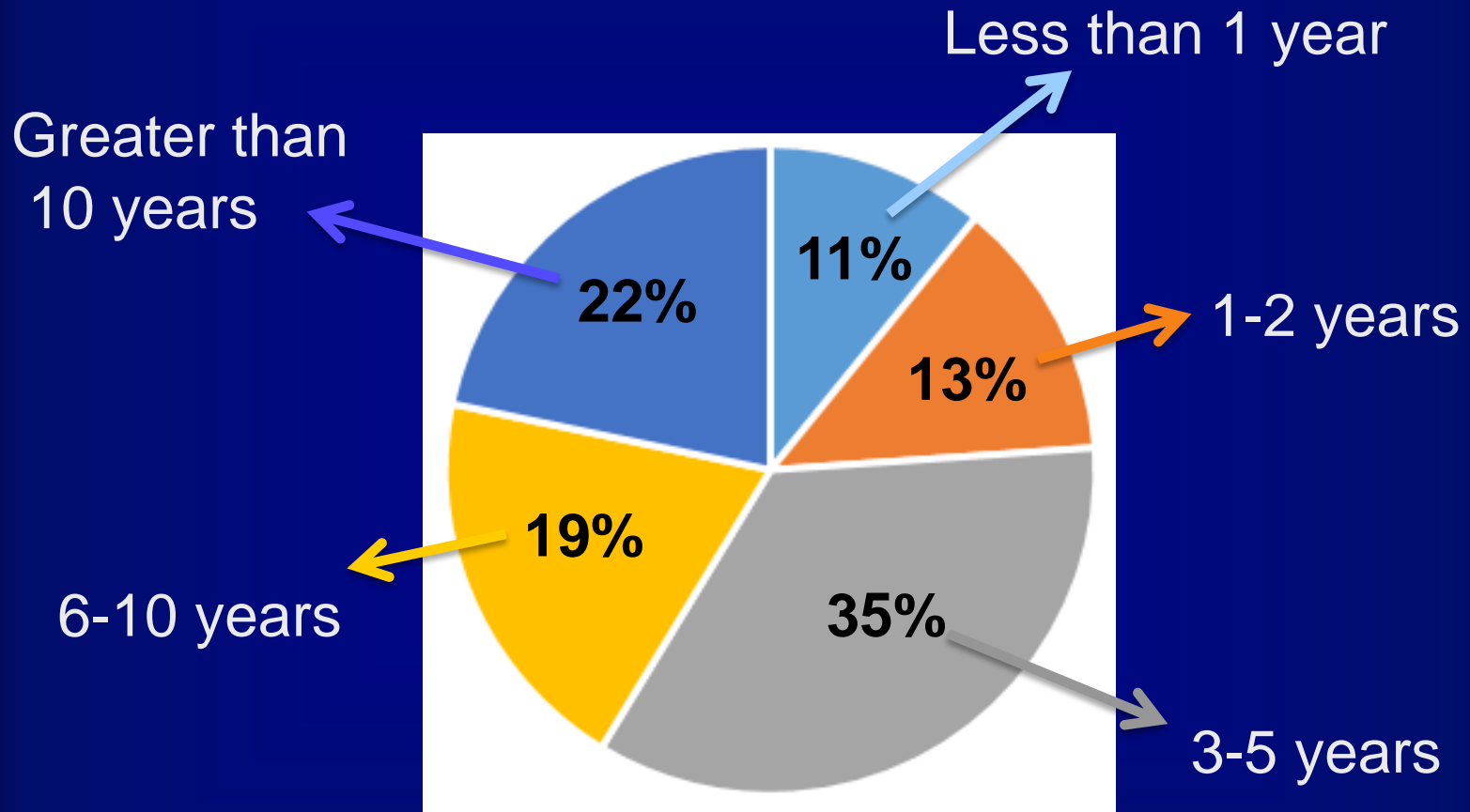
<http://rammb.cira.colostate.edu/training/rmtc/focusgroup.asp>



Monthly Regional Focus Group Weather Discussions for the Americas and the Caribbean



RFG Survey: Length of Participation

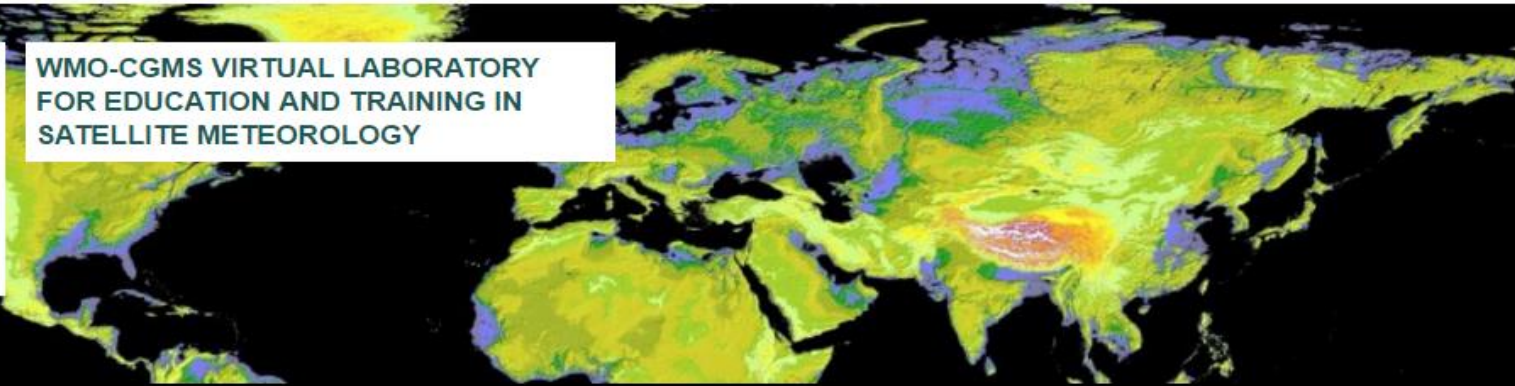


46 Responses

Participating in the RFG helps the participant to:

- Identify atmospheric and surface features in satellite imagery more readily (89%)
- Feel more confident about the interpretation of satellite images (78%)
- Investigate new ways in which satellite data may assist in their occupation (76%)
- Keep up to date with new satellite products available (74%)

46 Responses



Calendar of Events

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

This online Calendar of Events shows the upcoming training events, workshops, conferences and online sessions organised by VLab Members and partner Programmes. The Calendar is continuously updated, so make sure to revisit this page frequently.

Date	Title	Location	Initiative	CoE involv.	Type	Language	Attendance	Contact	Link
27/01/2017 12:00 - 27/01/2017 13:00	Weather Briefing Online, 27th of January at 12 UTC	Online	EUMeTrain		Online course	English	Open	Marko Blaskovic	
14/02/2017	RFG of Central and South America and the Caribbean - 16:00 UTC	Online	VLab	Argentina, Barbados, Brazil, Costa Rica	Online Weather discussion	English, Spanish	Open	Bernie Connell	
21/02/2017	Overview of the Global Disaster Alert and Coordination System (GDACS)	Online	NASA- ARSET		Online course	English	Open	ARSET	
09/03/2017	RFG of Central and South America and the Caribbean - 16:00 UTC	Online	VLab	Argentina, Barbados, Brazil, Costa Rica	Online Weather discussion	English, Spanish	Open	Bernie Connell	
14/03/2017 - 16/03/2017	Baltic+ 2017 Training Course	Vilnius, Lithuania	Other		Blended course	English	Open		

Observational Needs

- Geostationary hyperspectral sounder
 - To continue to advance our understanding of remote sensing and to provide more frequent atmospheric profile information to drive weather forecast models.
- Geostationary day-night band
 - To extend the benefits of visible image viewing to the night for improved identification of surface and cloud features.
- Promote citizen weather observations and reports – human judgement in the process is valuable.

Some things to think about for new satellites

- If you don't see a training resource on a topic of interest, enquire about it.
- It's not obvious until it's been pointed out.
- No question is too small to ask.

- I'm looking forward to high spatial resolution (0.5 km visible!) imagery on GOES-16. Are you?

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