Virtual Laboratory Management Group
Seventh Meeting - VLMG-7
St. Petersburg, Russia – 22 to 25 July 2014

NOAA/USA Contributions

Presented by: Bernie Connell (CIRA)

Includes contributions from:

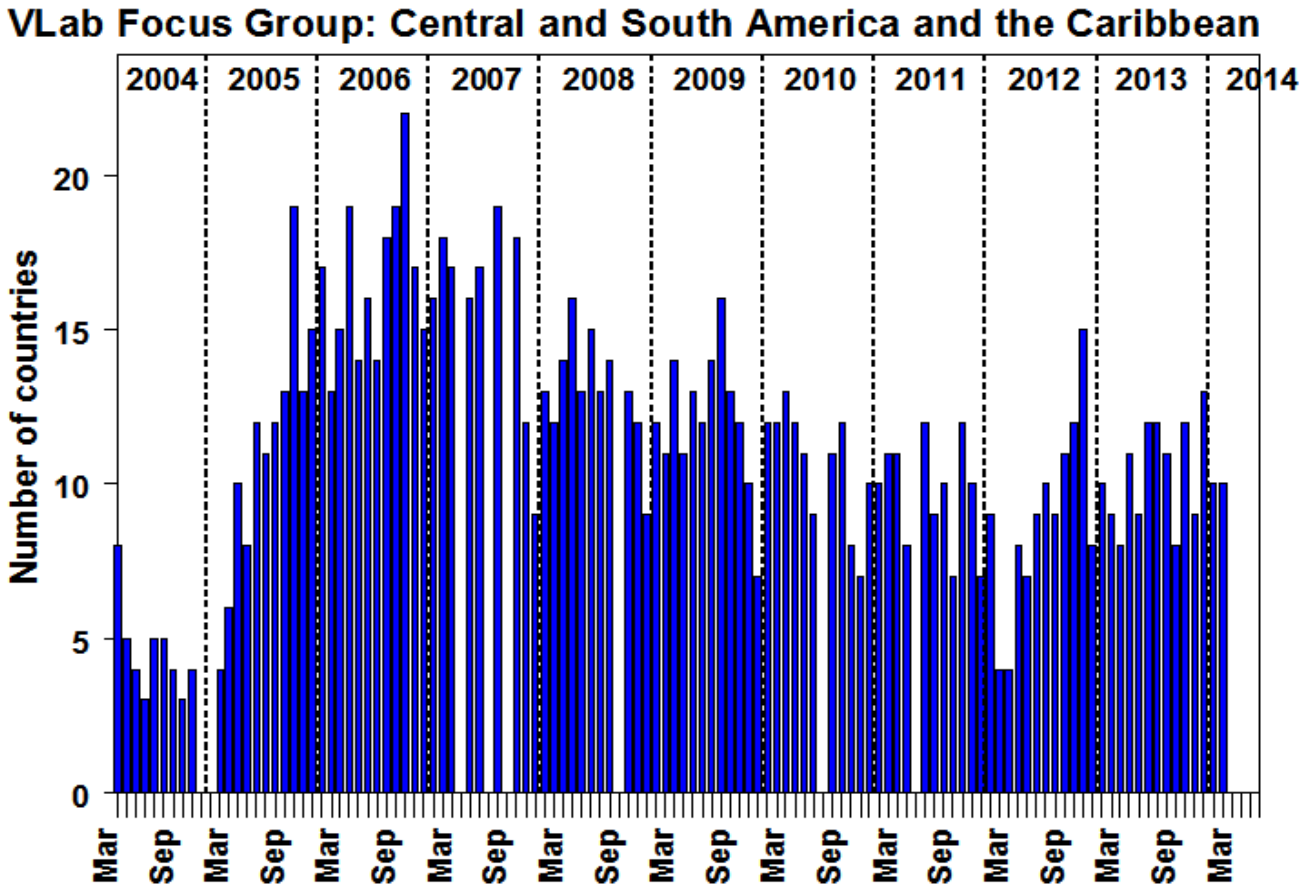
Cooperative Institute for Research in the Atmosphere (CIRA)
NOAA National Weather Service (NWS) Training Division
NOAA NWS Weather Prediction Center (WPC) / International Desks
NOAA Office of Satellite and Product Operations (OSPO)
University Corporation for Atmospheric Research (UCAR) COMET
NOAA NWS International Activities (IA) Office and co-located UCAR

VLab Most Important Achievements

- Americas and Caribbean Monthly Focus Group
- GEONETCast Americas awakening
- Special Seminars and online lessons
- WPC International Desk Visitor Program
- Preparing for GOES-R and using SNPP
- VLab TSO Support: active contributor and oversight for position via CIRA

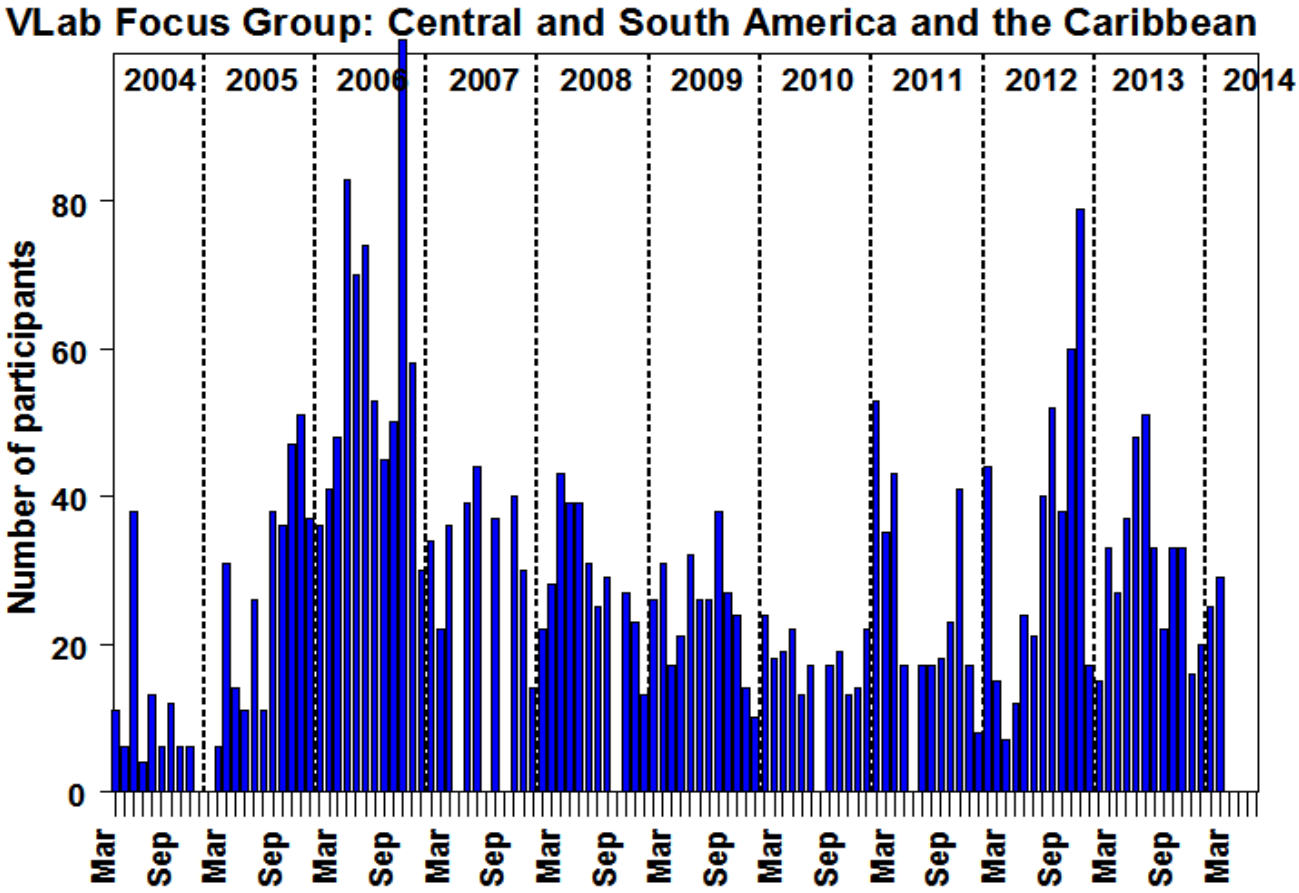
Americas and Caribbean Monthly Focus Group

CIRA-WMO VLab http://rammb.cira.colostate.edu/vlab



Americas and Caribbean Monthly Focus Group

CIRA-WMO VLab http://rammb.cira.colostate.edu/vlab



GEONETCast efforts

- NOAA / WMO VLab Train-the-Trainer GEONETCast Workshop
  6-7 April 2013
- NOAA Satellite Conference
  8 -11 April 2013 (+April 2015)
- WMO VLab Virtual Training GEONETCast - Americas
  December 3, 4, and 5, 2013
  English and Spanish versions

* More specific information on GEONETCast on Wednesday

Support to training activities

- 2 online sessions for Satellite Direct Readout:

  8 Apr 2014 "Suomi NPP"

  by Mitch Goldberg

  7 countries; 40 participants

  9 Apr 2014 "CSPP software"

  by Liam Gumley

  9 countries; 36 participants

- Product Updates from NHC

  27 May 2014 by Todd Kimberlain and Gladys Rubio

  bi-lingual (English and Spanish)

  11 countries; 49 participants

Lecture support to training activities

- Workshop on Numerical Weather Predicti
  Quantitative Precipitation Forecasting Te
  - Tropical South America/Peru – November 2013
    sponsored by Servicio Nacional de Meteorología
    e Hidrología de Perú (SENAMHI)
  - Northern South America and Central America – March 2013
    sponsored by Instituto de Hidrología, Meteorología y Estudios Ambientales (IDEAM) Colombia

Included satellite interpretation techniques!

- EUMETRAIN World Wide Weather Briefing – Event Week in May 2013 (virtual)
- GOES-R presentation (Dec 2012) and NHC presentation (Dec 2013) for the Caribbean Aeronautical Continuing Professional Development Course (both virtual)

New COMET MetEd Modules

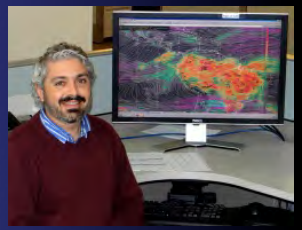
- Remote Sensing Using Satellites, 2nd Edition
- Satellite Monitoring of Atmospheric Composition
- GOES-R ABI: Next Generation Satellite Imaging
- Advances in Space-Based Nighttime Visible Observation
- Multispectral Satellite Applications: Monitoring the Wildland Fire Cycle, 2nd Edition
- Satellite Feature Identification: Inferring Three Dimensions from Water Vapour Imagery
- Multispectral Satellite Applications: RGB Products Explained
- Advanced Satellite Sounding: The Benefits of Hyperspectral Observation - 2nd Edition

See COMET Presentation on Monday

ESRC (in English, Spanish, French, …)

http://www.meted.ucar.edu/esrc/index.php

WPC International Desk Visitor Program



- Two Desks: Tropical and South American
  - Coordinators : Mike Davison and Jose Galvez
- 3 month training
- 28 visitors Sept 2012 to June 2014
  - Argentina (4), Bahamas, Barbados, Bolivia, Brazil (3), Cayman Islands, Chile, Colombia, Costa Rica(2), Dominican Republic, El Salvador (2), Jamaica (2), Mexico (2), Paraguay, Peru (4), Uruguay
- Follow up: participation in the RFG

http://www.hpc.ncep.noaa.gov/international/photo/photos.shtml

Preparing for New Satellites GOES-R

- National and International
- National success: Satellite Proving Ground
  - Satellite liaisons at the National Centers
  - Feedback: Research Operations
- International
  - NOAA Satellite Conference
  - Various virtual presentations via RFG connection
  - COMET English, Spanish and French modules

Challenges

- NOAA experienced significant internal budget cuts in Fiscal Years 2012 and 2013 and had limited resources to assist VISIT and COMET programs and the CoEs.
- Continue efforts to support:
  - inexpensive access to imagery and products
  - inexpensive software to display imagery, products, model output, and other observations
- Expand GOES-R training and Satellite Proving Ground for International Community

Future Plans

- Data reception & Display software: GEONETCast opportunities and McIDAS-V
- Adapting existing GOES-R training on new channels and products for International Community - engage trainers via CALMet
- GOES-R training for International Community: NOAA satellite conference, RFG event week and COMET Module(s)
- Continue monthly RFG and special seminars
- Add International Component to Satellite Proving Ground: via WPC visitor program?

VLab TSO

- NOAA through CIRA continues to provide funding and support for the VLab Technical Support Officer (TSO).
- GRRRRRREAT idea! The TSO provides Wonderful support!

Great Progress!!!

Every little bit of help contributes to the whole and many individuals with limited resources can work together to accomplish quite a lot!

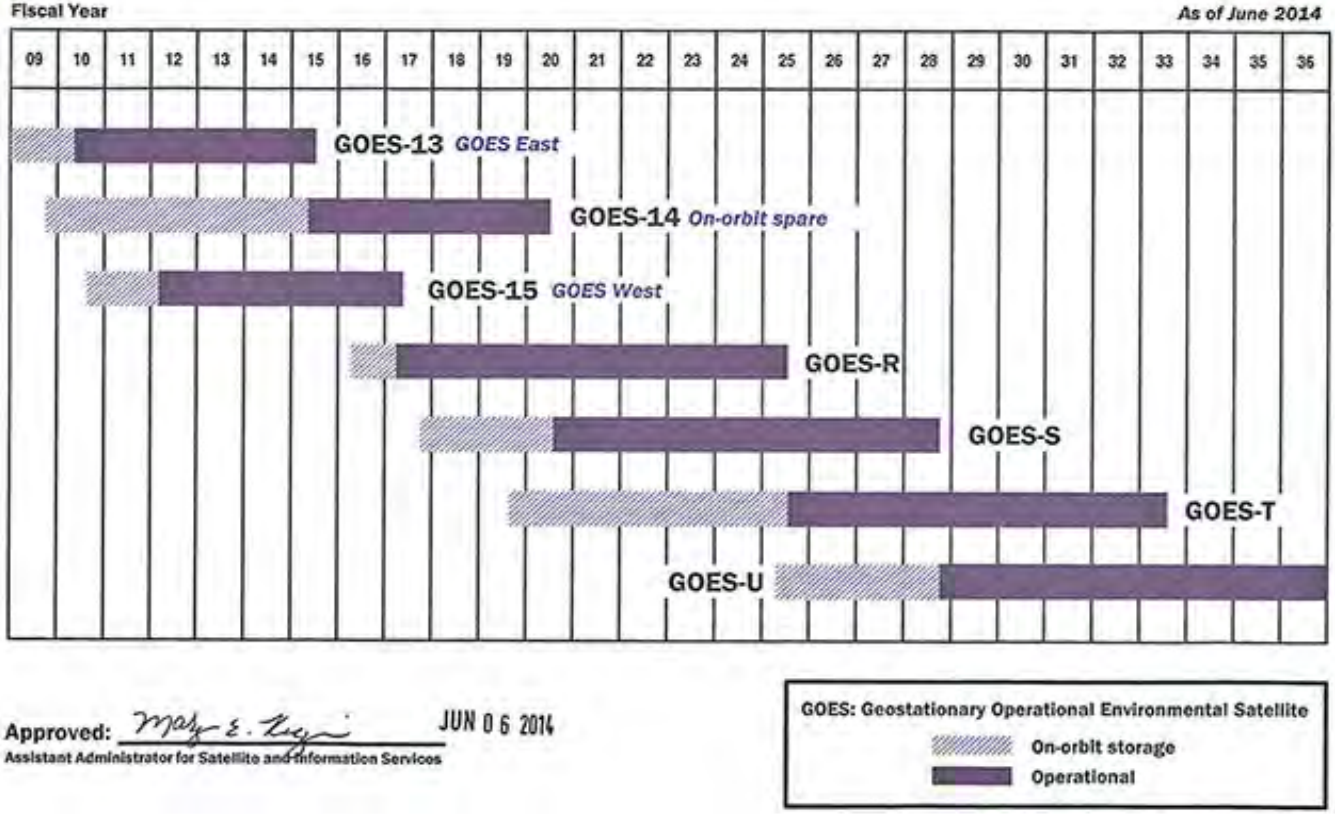
Training Links

- NOAA/CIRA WMO VLab activities
  http://rammb.cira.colostate.edu/vlab
- GOES-R Proving Ground
  http://www.goes-r.gov/users/proving-ground.html
- JPSS Proving Ground
  http://www.jpss.noaa.gov/community_proving-ground.html
- NWS Training Portal
  http://www.nws.noaa.gov/training/
- VISIT - Virtual Institute for Satellite Integrated Training
  http://rammb.cira.colostate.edu/visit/
- SHyMet – Satellite Hydrology and Meteorology
  http://rammb.cira.colostate.edu/training/shymet/
- COMET MetEd http://www.meted.ucar.edu
- SPoRT – Short-term Prediction Research and Transition Center
  http://weather.msfc.nasa.gov/sport/training/

Extra quick link and satellite launch schedule

http://www.nesdis.noaa.gov/SatInformation.html

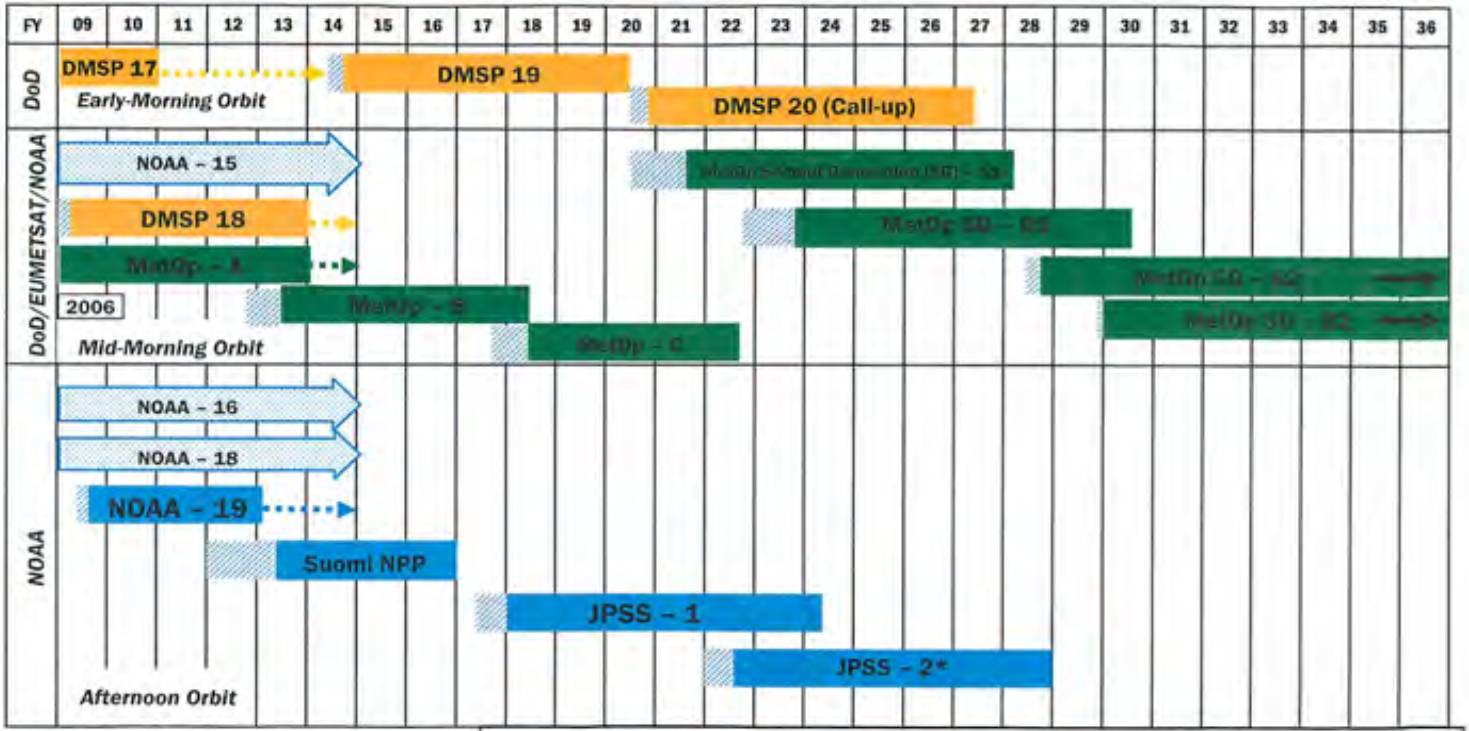
Continuity of GOES Mission



http://www.nesdis.noaa.gov/FlyoutSchedules.html

Continuity of NOAA's Polar (Primary) Operational Weather Satellite Programs

As of May 2014



Approved: Mary E. Kicza

Assistant Administrator for Satellite and Information Services

*Program funding provided through FY2025. The follow-on Program will provide funding for operations post 2025.

DMSP: Defense Meteorological Satellite Program
JPSS: Joint Polar Satellite Program
Suomi NPP: Suomi National Polar Partnership

Post Launch Test
Operational based on design life
Secondary
Operational beyond FY 2036
In Extended Mission

Note: Extended operations are reflected through the current FY, based on current operating health.

http://www.nesdis.noaa.gov/FlyoutSchedules.html

COMET

VISIT

VLab

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
US DEPARTMENT OF COMMERCE

ESRC
environmental satellite resource center
Buscar
Acerca de ESRC
Sus comentarios