

Ninth Meeting of the Virtual Laboratory Management Group - VLMG-9

Cooperative Institute for Research in the Atmosphere

16 - 20 July 2018 - Fort Collins, CO, United States



Center of Excellence of Cachoeira Paulista, Brazil

Satellites and Environmental Systems Division (DSA)

Center for Weather Forecasting and Climate Research (CPTEC)

National Institute for Space Research (INPE)

Cachoeira Paulista, SP, Brazil

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1. Main Achievements since 2016

1. Training for SIGMACast / GEONETCast 2016 – Cachoeira Paulista, Brazil:

Trainers: Luiz Augusto Machado, Diego Souza, Eduardo Moller, Mário Sirqueira, Daniel Vila, Natália Rudorff, Renato Galante Negri, Simone Sievert da Costa (DSA/CPTEC/INPE)
More than 30 participants from different Agencies



2. GEONETCast / SIGMACast / SOS Chuva 2016 – João Pessoa, Brazil:

Trainers: Luiz Augusto Machado, Diego Souza (DSA/CPTEC/INPE)
15 participants – mainly students from universities

3. Training on Access and Use of JPSS and GOES-R Imagery for Environmental

Applications, May, 2017, Santos-SP, BR, Brazilian Remote Sensing Symposium (SBSR);
7 Instructors (INPE, USP NOAA and WISC experts)

20 participants: civil defense, meteorological and agriculture services and universities



Mitch Goldberg
Program Scientist
Joint Polar Satellite System
National Environmental Satellite, Data, and Information Service
U.S. National Oceanic and Atmospheric Administration
U.S. Department of Commerce

3b. Plenary session with NOAA and INPE experts: Next Generation Environmental Satellites: integrating Earth Observing Systems - Atmosphere, Ocean and Land

Dr. Harry Cikanek director of STAR; Steven Goodman (GOES-R), Mitchell Goldberg (JPSS) and Luiz Machado (INPE), at the SBSR 2017

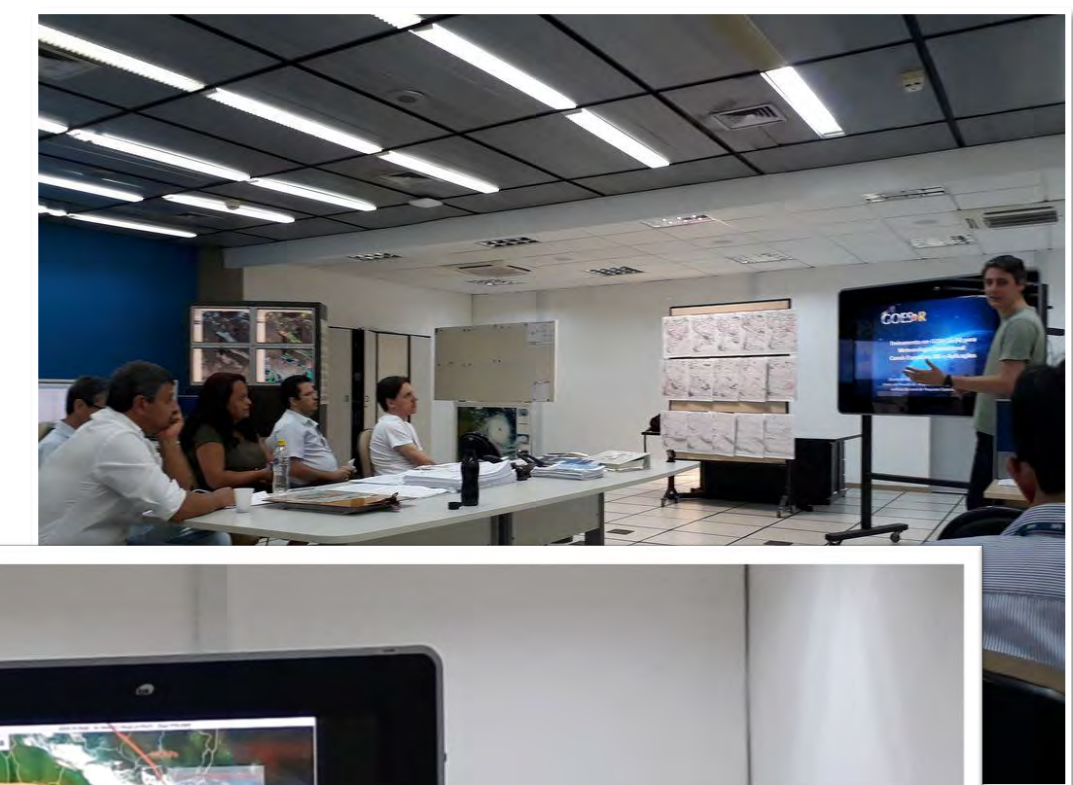
CM4SH: translation to Portuguese

4. Training on GOES-16 for Operational Meteorological Services,

October 2017, CPTEC, Cachoeira Paulista, SP, Brazil;

•4 Instructors (INPE)

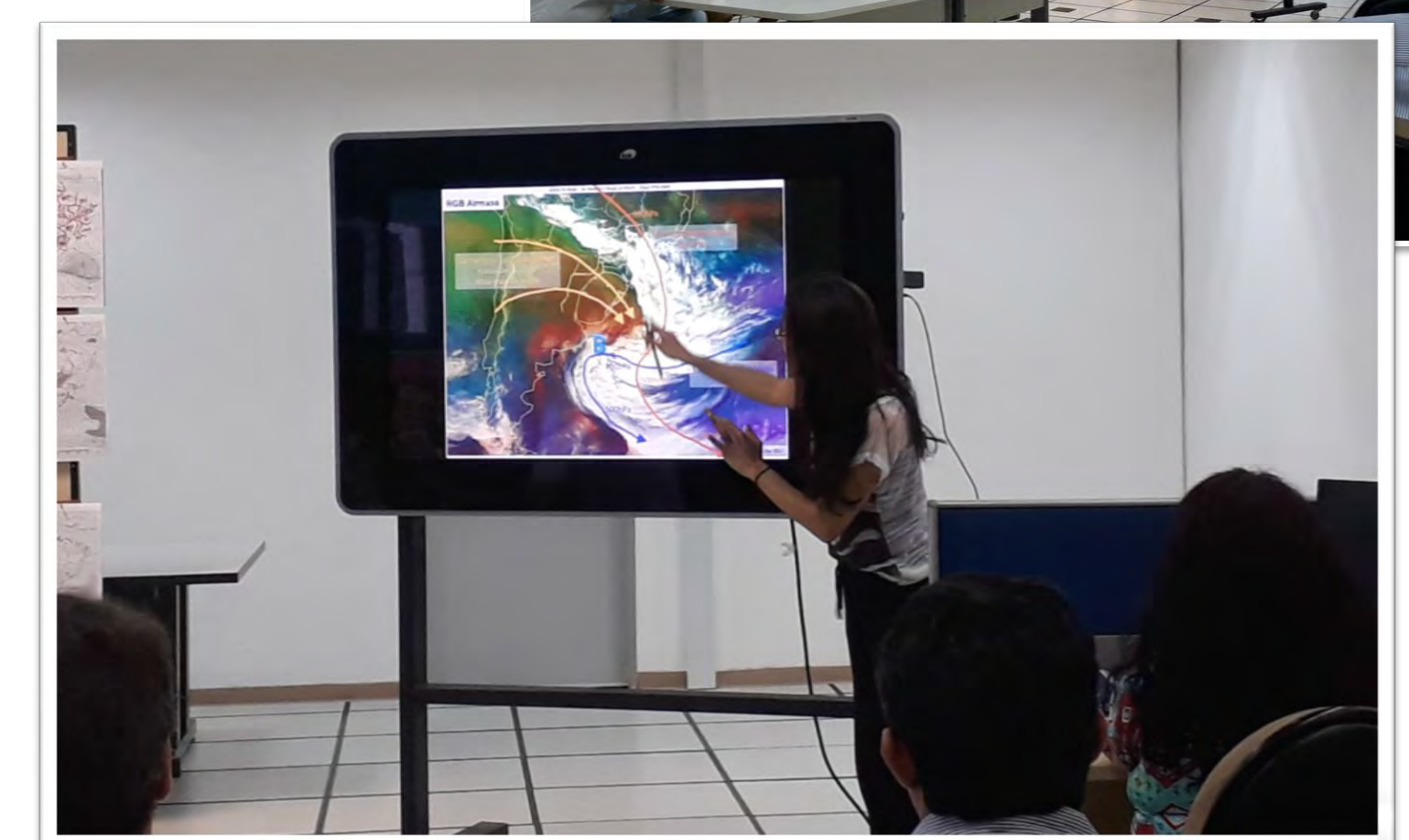
•13 participants: CPTEC operational meteorologists



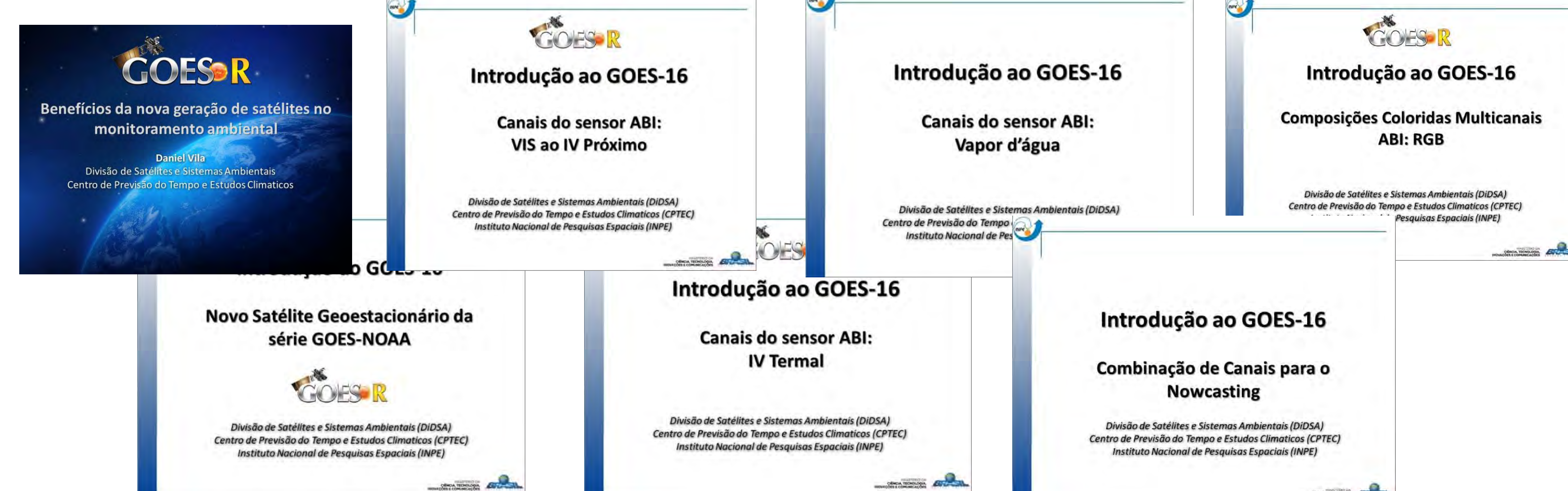
5. Storm Nowcasting using SOS-Rain app,

November, 2017, CPTEC, Cachoeira Paulista, SP, Brazil;

18 participants



6. Series of online short videos for GOES-16, 2018



Released at our webpage; fanpage and youtube

Collaborative trainings:

1. **Satellite Fire Detection and Monitoring**, September, 2016, 2017, 2018, São José dos Campos-SP, BR. (OBT, SELPER)
2. **Taller GEONETCast-Americas – IDEAM – Bogota, 2015:**
3. **WMO/NOAA VLab Train the Trainer Workshop on Satellite Data Access, Application, and GEONETCast Americas 2015 – Greenbelt, USA:**
4. **AMERIGEOSS Week 2016 – Bogota, Colombia:**
5. **Aplicaciones de imágenes y productos de satélites a la meteorología de latitudes medias**, September-October, 2017, Santa Cruz de la Sierra, Bolívia (EUMETSAT)
6. **RGB Workshop**, Japan, November, 2017

2. Major Challenges

- Obtain financial support and gather technical and administrative personal to prepare the trainings.
- Improve the learning resources with attractive, informative, and fast learning material – shorter lessons containing essential information to achieve the learning outcomes.
- Explore the most suitable way to evaluate the efficiency of that learning process, with hands-on exercises (i.e., assignments) and basic knowledge of the training subject (i.e., quizzes).
- Improve our communication with regional services to have an efficient user requirement feedback

4. Main interests for Project Collaboration

Have another CM4SH alike project to develop case studies with quick guides using next generation satellite data for RA III;

Share resources and develop joint efforts with other CoEs of RA IV and III

3. Future Plans

Training events:

1. GOES-16 and GEONETCast-Americas, AMERIGEOSS week, organized by NOAA with INPE collaboration August, 2018, São José dos Campos, Brazil.
 2. GOES-16 (ABI and GLM) imagery and products for operational meteorology, online course, 2018 and 2019
 3. Satellite Meteorology, online course, 2019
 4. Continuation with online short videos
 5. Translation of the Climate Services training to Portuguese
- Continue with collaborative trainings

Improve:

More online trainings

User interaction and feedback through Facebook, blogs and emails

Evaluation of learning outcomes

Gather more training personal through Project fundings

