WMO RA-III Chile Virtual Training on Satellite Applications
Announcement and Registration information
November 8, 9, 10 and 15, 16, 17 2021
Registration link

The Dirección Meteorológica de Chile (DMC) in Chile is hosting a virtual satellite workshop in Spanish for participants from the World Meteorological Organization (WMO) South America Region III.

The objective of the workshop is to provide an overview of the GOES-R and JPSS satellites, their instruments, data, and products and tools. Through practical hands-on exercises using RA-III case studies, participants will learn to make use of satellite data to better understand environmental scenarios and produce more reliable forecasts.

The workshop will be held in **November on Monday 8, Tuesday 9, Wednesday 10, and Monday 15, Tuesday 16, Wednesday 17, 2021.** The workshop will cover both GOES-R and JPSS satellite capabilities, as well as access to other satellite data to support AmeriGEO Societal Benefit Areas (SBA's) and the WMO's Region III forecast challenges. This is a Spanish language only event with no simultaneous interpretation available.

Each daily session will begin 11:00 AM Chile time (DST) (14:00 UTC) and end 6:00 PM Chile time (DST) (21:00 UTC). Because of COVID-19, this is a virtual training workshop. Participants will be required to provide their own computing accommodations.

Registration and a pre-workshop orientation session are required. Because of the virtual nature of the training, there will be a pre-orientation session for interactive participants to confirm participation, data access, and provide the attendees with materials ahead of time.

Forecasters, researchers, and students are all encouraged to participate. Please note there will be two types of participation:

1) Full time participants will attend through an **interactive webinar**, responding online to questions and submitting homework. Space is limited to 100 attendees and participants are eligible for a certificate.
2) All others can participate through a **real time live streaming** platform giving them the ability to observe real-time and ask questions during the sessions. Space is unlimited and participants are not eligible for a certificate.

Space is limited for active participation and if the number of people registered for the active participation exceeds the capacity of the webinar, we will implement a selection process to ensure that attendees who will actively participate will be given priority. There is no registration fee for the workshop.

The link to register for the workshop is here.
Deadline to register for the workshop is 18 October 2021.
A final agenda will be posted on the Workshop information page.

It is strongly recommended that participants complete the following online COMET Training modules in advance to prepare for the workshop located at Meted.UCAR.edu:

- GOES-R Satellites Orientation Course (Curso de orientación sobre los satélites GOES-R). Only three modules are suggested. The Spanish titles of these modules are:
    - GOES-R: beneficios de la observación ambiental de próxima generación
    - El ABI del GOES-R: la próxima generación de imágenes satelitales
    - El GLM del GOES-R: introducción al sensor de rayos geoestacionario
- Suomi NPP: A New Generation of Environmental Monitoring Satellites (Suomi NPP: Una nueva generación de satélites de observación ambiental)
- Satellite Foundation Course for JPSS (Curso básico de satélites para el JPSS). Only four modules are suggested. The Spanish titles of these modules are:
    - Introducción a la teledetección por microondas
    - Bandas de absorción del oxígeno y del vapor de agua
    - Emisividad superficial de microondas
    - Influencia de las nubes y la precipitación.

By the end of the workshop, participants will have a working knowledge of the GOES-R Series and JPSS key instruments as well as develop competency in working with the data and products for weather forecasting, prediction, monitoring or research through hands-on exercises and case studies. A certificate of participation will be provided to participants actively engaged in all sessions.

The overview of the agenda by topic is listed below. Please note this is only a draft agenda. The more detailed agenda will be located here.

Day 1 Monday 8 November	**AM**: Introduction to NOAA, WMO and AmeriGO's role for helping participants to improve their use of GOES-R Series/JPSS Products, Tools and Data Access **PM:** Enhancing access to satellite data
Day 2 Tuesday 9 November	**AM:** Hands-on Exercise for Using Python for Processing GOES-R data **PM:** Overview o**f** Processing of snow and ice products, Nowcasting Practices: Products and Application
Day 3 Wednesday 10 November	**AM:** Interpretation and Differentiation of cloud types and surface features, including a hands-on application for Detecting Fires, Cloud Phase and Vegetation **PM:** Hands-on case studies of using the Red Green Blue (RGB) Compositing instrument in: Day Cloud Phase Distinction and Night Microphysics RGBs, and Detection of Volcanic Ash / Dust vs water/ice cloud, NDVI and JPSS products
Day 4 Monday 15 November	**AM:** Introduction to Geostationary Lightning Mapper (GLM) and its applications using case studies with thunderstorms and hail events **PM:** Hands-on case studies: Summer Rainfall over Atacama, and tentatively: Landslides and Global Precipitation Measurements (GPM)
Day 5 Tuesday 16 November	**AM:** Disaster Management: Use of satellite information for decision-making **PM:** Review and case studies to address: cut off lows, coastal fog, and flowsystem, and how to effectively communicate a forecast or warning

Day 6 Wednesday 17 November	**AM:** Satellite Applications for Aviation Hazards; NASA's Role in Optimizing the Use of Satellite Information; and how to manage forecasts without radar by utilizing satellite data **PM:** The GEOGLoWS Initiative and their available Tools: the Hydroviewer and Hydroserver

If you have any additional questions, please contact AJ DeGarmo (albert.degarmo@noaa.gov) or Sherrie Morris (sherrie.morris@noaa.gov).