

## VISIT Calendar Update through February 2021

Greetings SOOs,

Below is a listing for the February VISIT teletraining sessions (note the NEW and UPDATED sessions listed at the top):

Title	Day of month	Time (UTC)	Description
<b>GOES Blowing Snow Detection</b>	4, 11	15:00 (11) 21:00 (4)	<b>NEW</b> Objectives: 1. Learn what GOES-R channels can be used to detect blowing snow 2. Learn how the Day Snow Fog RGB is created 3. Learn how to adjust RGB Composite options if necessary 4. Apply RGB information to two case studies
<b>Storm Signatures Observed in Satellite Imagery</b>	23, 26	17:00	<b>NEW</b> The primary objective of this training is to learn how to utilize GOES-16/17 imagery to identify severe thunderstorm signatures, this includes: 1. Inflow feeder clouds 2. Lines of Towering Cumulus above an invigorated RFD (also known as flanking towers) 3. Enhanced-V
<b>Integrating GOES Into Mesoanalysis</b>	19, 24	17:00 (19) 20:30 (24)	<b>NEW</b> The objective of this training is to learn how to utilize GOES-R era imagery in combination with other observational data (i.e., surface observations) for air mass and boundary identification during severe weather events. This covers the time period from the pre-storm environment and continuing into the warning decision making period.
<b>JPSS/GOES Fire Weather Monitoring Capabilities</b>	3, 10, 17, 24	17:00	<b>NEW</b> With the influx of new polar-orbiting and geostationary satellites orbiting the globe, a plethora of satellite imagery is available for users to analyze and employ in the operational forecasting environment. But what JPSS/GOES products can users employ during the daytime and nighttime for fire weather monitoring? Teletraining will encapsulate case examples highlighting the utility of JPSS and GOES products for fire weather monitoring.

<b>Introduction to Near-Constant Contrast (NCC) (Nighttime-Visible Imagery)</b>	1, 8, 16, 22	17:00	<b>NEW</b> Objectives: 1. Introduction to NCC and understand its characteristics and capabilities 2. Demonstrate NCC's primary applications 3. Identify NCC's limitations 4. Employ NCC enhancements in AWIPS 5. How to find NCC in AWIPS
<b>NUCAPS Soundings in AWIPS</b>	8, 24	18:00	Updated in January 2020 with Gridded NUCAPS Objectives: 1. Learn what NUCAPS soundings are, and how they are created 2. Know how to access the soundings in AWIPS II 3. Learn how to modify the soundings in the NSharp Editor 4. Apply NUCAPS sounding information to better understand the atmosphere 5. Introduce Gridded NUCAPS data
<b>TROWAL Identification</b>	9	15:00	Updated in November 2019 with GOES-R Imagery TROWAL stands for TROUgh of Warm air ALoft Objectives: 1. Learn about extratropical cyclone structure 2. Learn to use AWIPS to find TROWALS 3. Can TROWAL identification help forecast accuracy? Outline: 1. Review conceptual models of cyclone airflow 2. Review vertical motion 3. Historical review of TROWALS 4. Characteristics of TROWALS 5. How to find TROWALS
<b>Severe Weather Applications of the GOES Split Window Difference Product</b>	26	20:30	Updated in October 2019 Objectives: Utilize the GOES-16/17 Split Window Difference Product for the following severe weather applications: 1. Identification of moisture pooling along low-level convergence boundaries 2. Identification and tracking of dryline bulges. 3. Identification of convective pre-conditioning.
<b>Tracking the Elevated Mixed Layer with a new GOES-R water vapor band</b>	12, 23	17:00 (12) 20:30 (23)	Updated in April 2019 with GOES-16 imagery examples. This training session describes a technique to track the elevated mixed layer (EML) that can be an important ingredient for severe thunderstorm events. The 7.3 um band on the GOES-R series along with the ALPW product are shown to be a useful way to identify and track the EML for severe thunderstorm forecasting.

<b>GOES-R Fog / Low Stratus Products</b>	11, 25	21:00	Objectives: 1. Learn how the GOES-R Fog/Low Stratus product improves upon traditional brightness temperature difference (BTD) 2. Understand how the GOES-R FLS products are created 3. See examples of how the product should be used in different geographic regions
<b>Advection Layer Precipitable Water Product</b>	2	17:00	Objectives: 1. Brief introduction to how the product is made along with strengths / weaknesses 2. Analysis of a variety of cases that highlight operational applications 3. How to receive the data in AWIPS

Check the calendar for teletraining registration instructions and add it to your Google Calendar!

Please VISIT us inside the Commerce Learning Center (CLC) website for announcements and complete recorded modules for training credit. Teletraining is also included in the CLC. A training record of VISIT teletraining is input into the CLC after the post-session feedback email form is filled out with the names of attendees.

**\* NEW \*** Check out the new and updated SHyMet Severe Thunderstorm 2020 course on the NOAA CLC. The course consists of many of the VISIT teletraining sessions listed above, however these are all online videos with associated quizzes. Estimated course completion time is about 5 hours.

\* As a reminder, current SHyMet training courses include SatFC-J and SatFC-G (updated in 2018 to include GOES-16/17 imagery over CONUS).

Pre-GOES-R era courses – Intern and Tropical – are also available, for more details see:

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

**\* FDTD GOES Applications Webinar**

Modeled after the success of the WDTD Storm of the Month and VISIT Satellite Chat live training events, this live training series will feature presentations focused on GOES-16/17 applications led by NWS staff offered at regular times. If you have an interesting application of GOES-16/17 for a recent event and would like to lead a webinar, let us know (email [nws.oaa.clo.visit@noaa.gov](mailto:nws.oaa.clo.visit@noaa.gov)). VISIT Satellite Chats will continue to be offered on an “as needed” (ad-hoc) basis. Webinars will be announced via email and a schedule of upcoming webinars is available here:

<https://vlab.ncep.noaa.gov/web/satellite-help-desk/webinars/>

If you are unable to attend either of these live training events you may find recordings available at:

[http://rammb.cira.colostate.edu/training/visit/satellite\\_chat/](http://rammb.cira.colostate.edu/training/visit/satellite_chat/)

**\* Satellite Training and Operations Resources (STOR) page**

The STOR page on the NOAA Virtual Lab contains reference materials and links regarding NOAA satellite systems used in operational meteorology:

<https://vlab.ncep.noaa.gov/group/stor/home>

\* Web sources of GOES-16/17, JPSS, and Himawari-8 Imagery and Products and more:

<http://rammb-slider.cira.colostate.edu>

<https://realearth.ssec.wisc.edu/>

Thanks for your interest and participation.

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