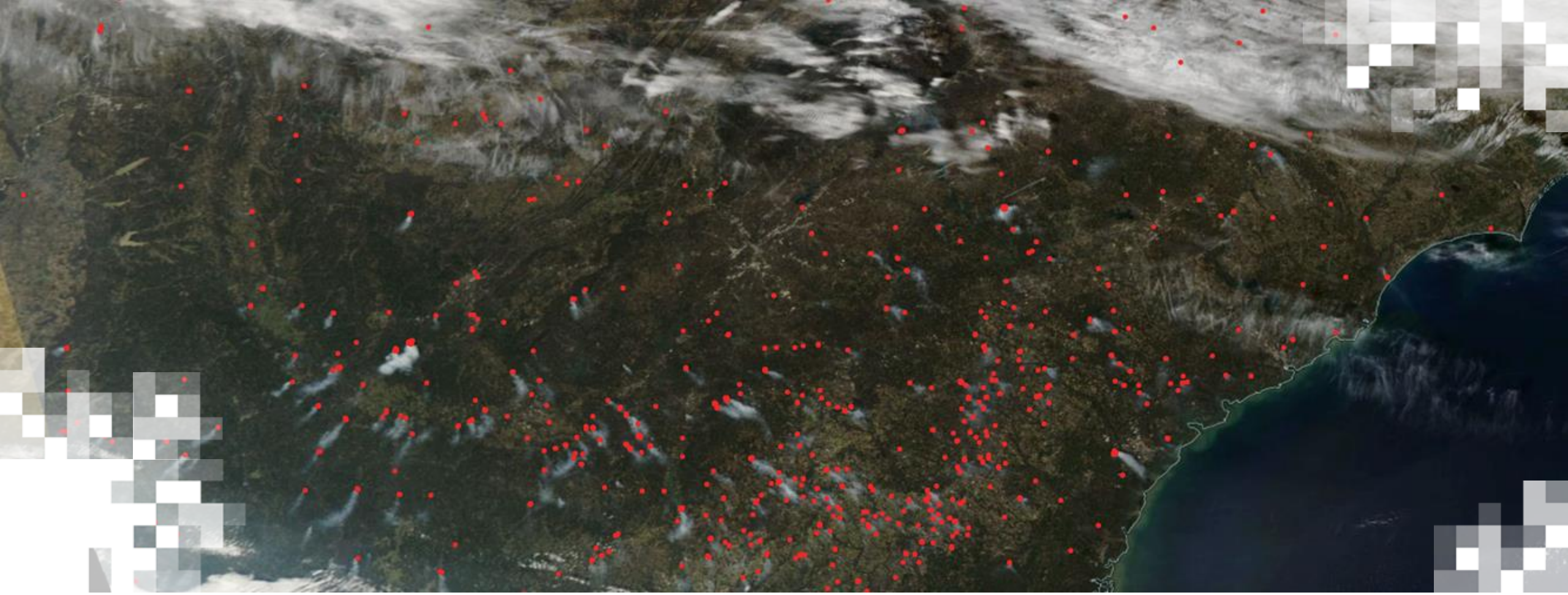


# NASA Satellite Observations and Tools for Fire and Smoke Monitoring

Welcome!

ARSET, FIRMS, and TEMPO Applications Teams

March 23, 2026



## About ARSET

# About ARSET

- **ARSET provides accessible, relevant, and cost-free training on remote sensing satellites, sensors, methods, and tools.**
- Trainings include a variety of applications of satellite data and are tailored to audiences with a variety of experience levels.



AGRICULTURE



DISASTERS



ECOLOGICAL CONSERVATION



HEALTH & AIR QUALITY



WATER RESOURCES



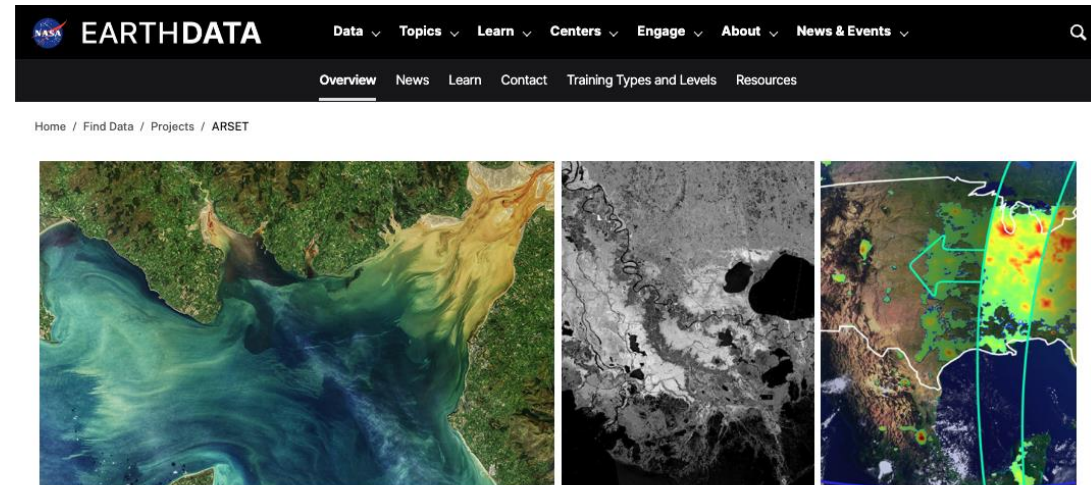
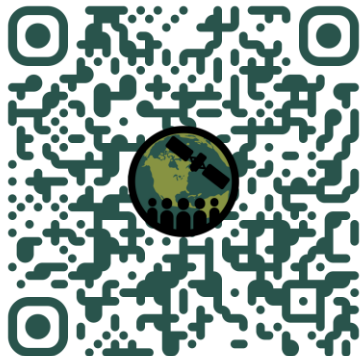
WILDLAND FIRES



# About ARSET Trainings

- Online or in-person
- Live and instructor-led or asynchronous self-paced
- Cost-free
- Bilingual and multilingual options
- Only use open-source software and data
- Accommodate differing levels of expertise

Visit the [ARSET website](#) to learn more.



## ARSET

### Applied Remote Sensing Training Program

Build skills to use remote sensing data for a range of applications related to air quality, public health, agriculture, disasters, ecological conservation, water resource management, climate resilience, and wildland fires. From 'How do satellites work?' to 'How can I use satellite data to make a flood map?' there are trainings available for all levels of experience.

Not sure where to start? Browse our [list of trainings](#). You can filter by theme, training level, and training type. Or, browse our [Online Resource Guide](#) to quickly see descriptions of all of our online trainings since 2015.

Learn more about our [types and levels of training](#).

New to remote sensing and Earth observations? Check out our new interactive online, self-paced Fundamentals of Remote Sensing training on the ARSET learning management system to start learning.

[Contact us](#) or find answers to Frequently Asked Questions on our [Resources page](#).

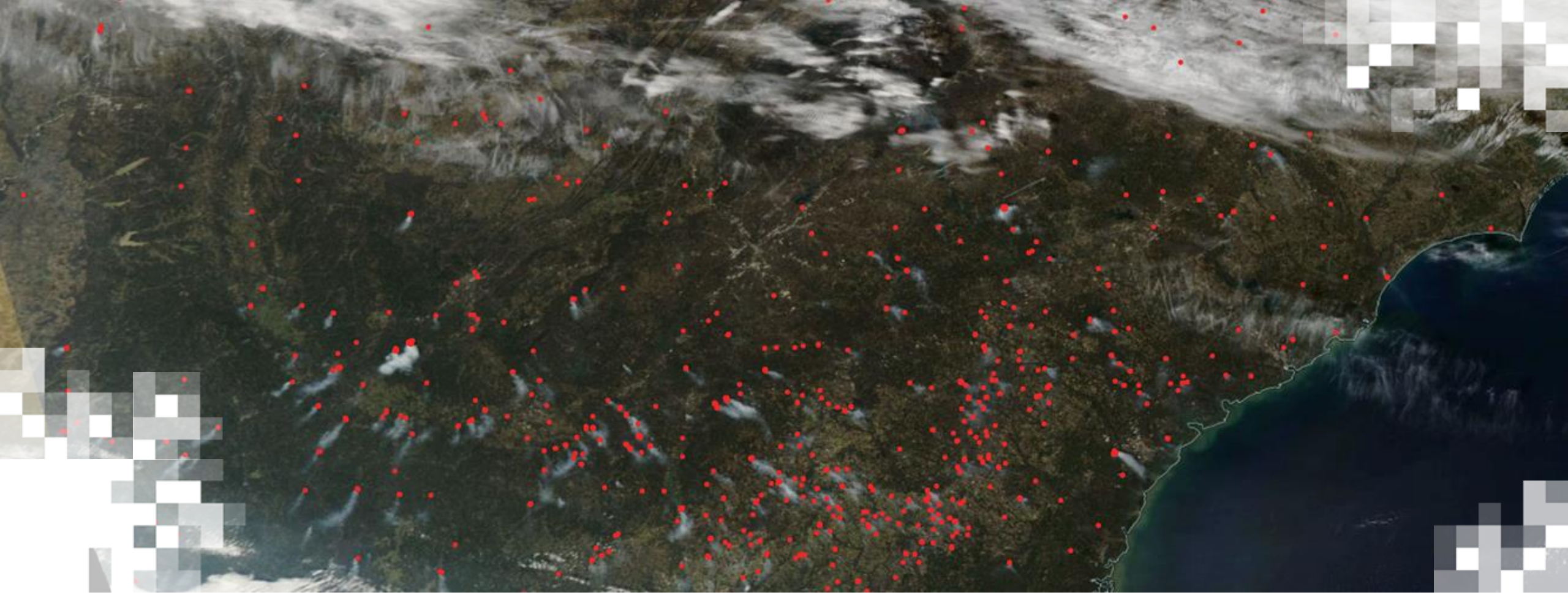
Don't miss a training! To join our mailing list and get updates on the latest trainings, send an email with no subject line to [arset-join@lists.nasa.gov](mailto:arset-join@lists.nasa.gov) and follow the instructions sent in the reply.

FUNDING PROGRAMS  
NASA Earth Action  
Program



EARTH SCIENCE DIVISION  
EARTH ACTION

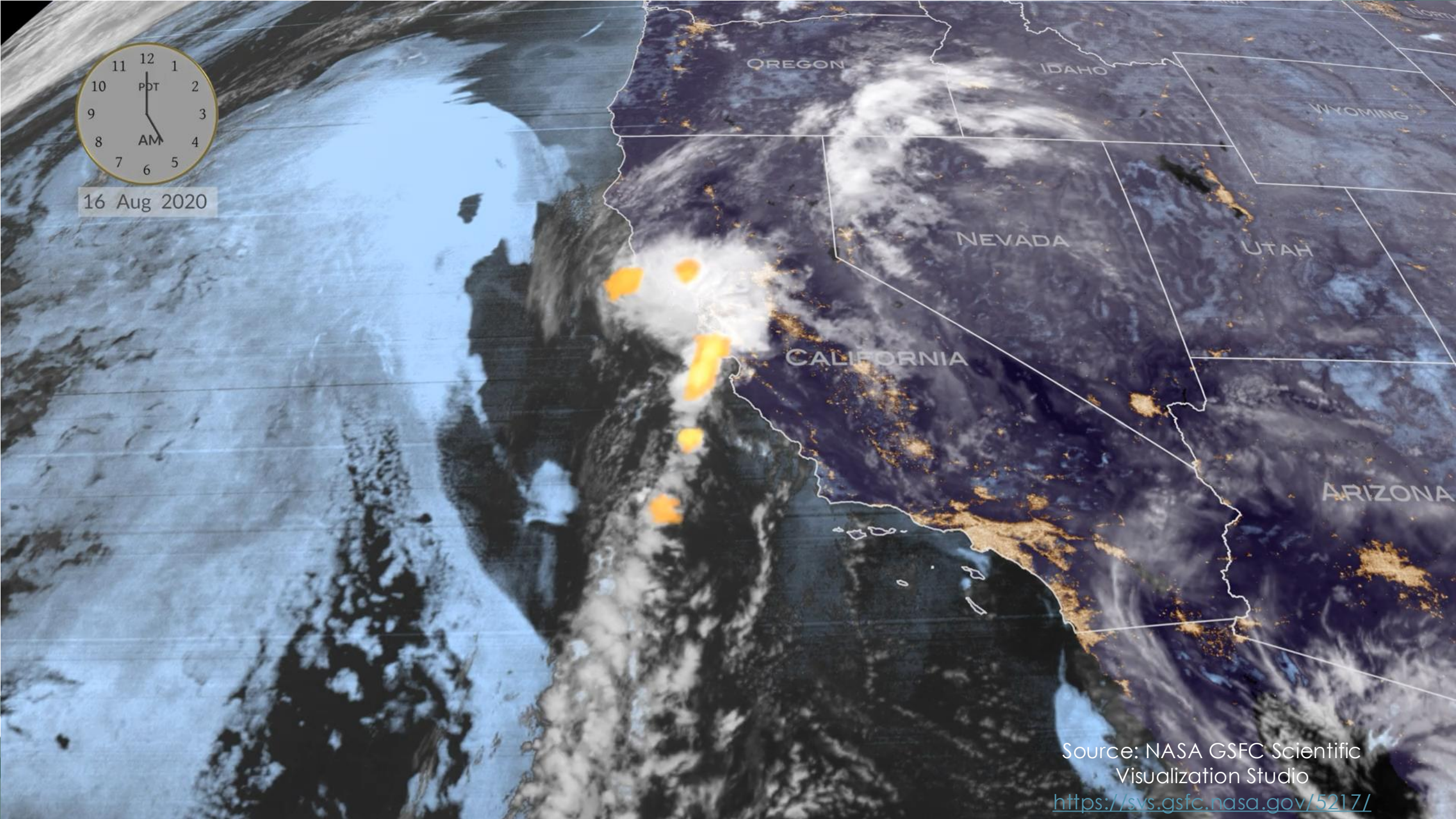




## NASA Satellite Observations and Tools for Fire and Smoke Monitoring Overview



16 Aug 2020



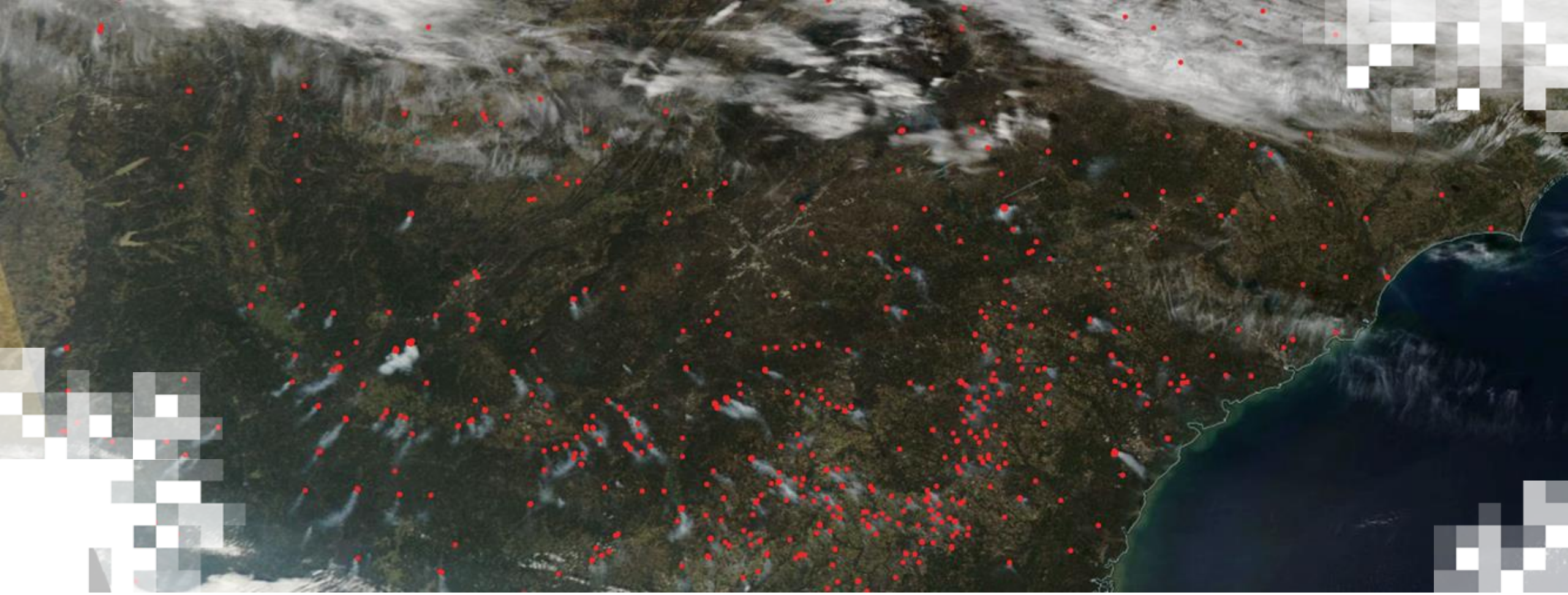
Source: NASA GSFC Scientific  
Visualization Studio  
<https://svs.gsfc.nasa.gov/5217/>

# Training Learning Objectives

By the end of this training, participants will be able to:

- Identify satellite sensors and data products applicable for detecting and monitoring fires and smoke plumes.
- Understand the capabilities and limitations of different data sources for detecting fires and observing smoke plumes.
- Access relevant data products for active fire and smoke monitoring using NASA tools such as Worldview and FIRMS (Fire Information for Resource Management System).
- Generate and interpret data visualizations of satellite-based observations for fire and smoke monitoring.





## Meet the Trainers

# Trainers – Applied Remote Sensing Training (ARSET) Program



## Caterina Mogno

Assistant Research Scientist  
University of Maryland, Baltimore  
County & NASA GSFC



## Aaron Naeger

TEMPO Mission  
Applications Lead  
NASA MSFC



## Kristina Pistone

Research Scientist  
Bay Area Environmental  
Research Institute & NASA ARC



# Guest Trainer – FIRMS

**Dylan Mendes**

FIRMS Senior Application  
Developer

SSAI & NASA GSFC



# Training Outline

14:00 Welcome and icebreaker

14:15 Overview of fire detection

14:45 Introduction to FIRMS and fire case study

15:15 Q&A

## **15:25 Break**

15:35 Overview of smoke detection and monitoring

16:05 Introduction to NASA Worldview and smoke case study

16:45 Prepare for hands-on practice

## **16:50 Break**

17:00 Group hands-on practice time

17:30 Team/individual share-outs

17:45 Closing remarks/feedback



# Training webpage

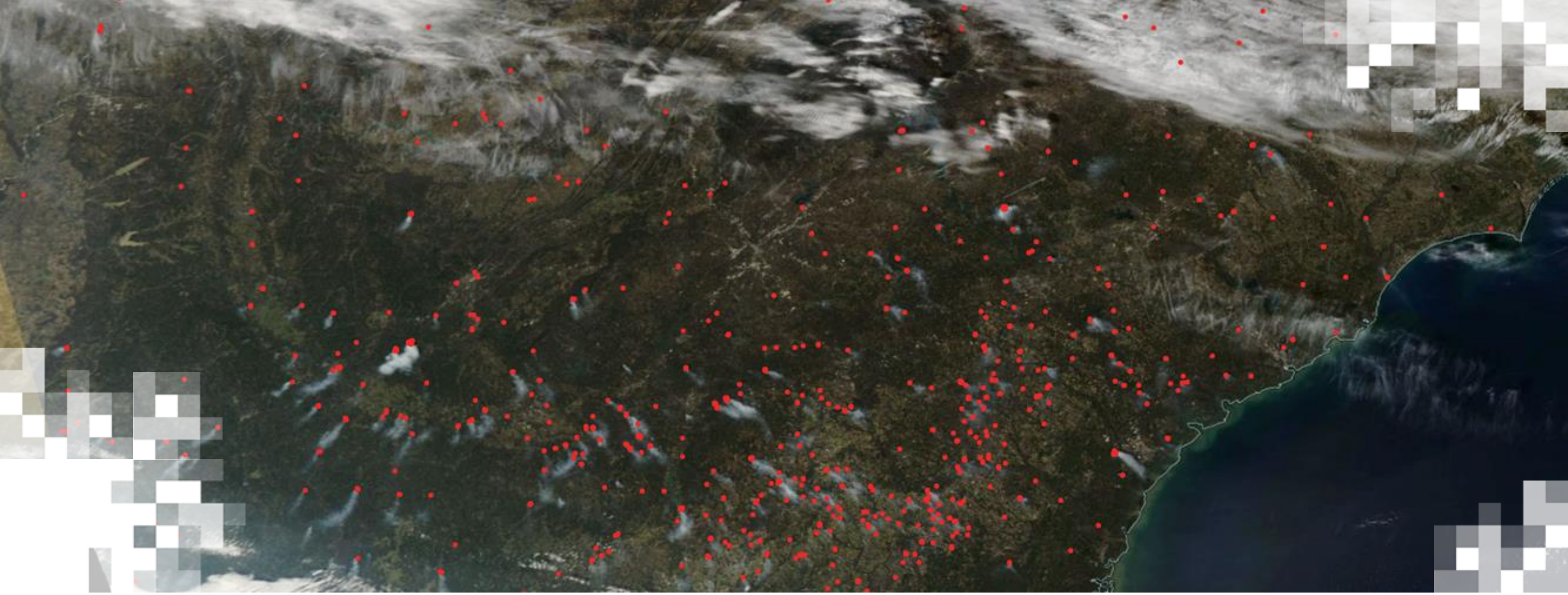
[go.nasa.gov/4siqvSb](https://go.nasa.gov/4siqvSb)



Slides and agenda are available to follow along, or for later reference.

A screenshot of the NASA EarthData website showing a training page. The page features a dark header with the NASA logo and 'EARTHDATA' text, followed by navigation menus for Data, Topics, Learn, Centers, Engage, About, and News &amp; Events. Below the header, a breadcrumb trail reads 'Home / Learn / Trainings / NASA Satellite Observations and Tools For Fire and Smoke Monitoring'. The main content area includes a 'TRAINING' icon, the title 'NASA Satellite Observations and Tools for Fire and Smoke Monitoring', and a descriptive paragraph: 'This ARSET training provides knowledge on satellite remote sensing and hands-on demonstrations of NASA tools for visualizing fires and smoke plumes.' At the bottom of the main content are social media icons for X, Facebook, and LinkedIn. On the right side, a white box displays metadata: 'TIMES', 'TRAINING TYPE: In-Person Training', and 'LEVEL: Introductory'. The background of the page is a satellite image of a forest with red dots indicating fire locations.





**Review and Icebreaker on Blooket**



**Thank You!**

