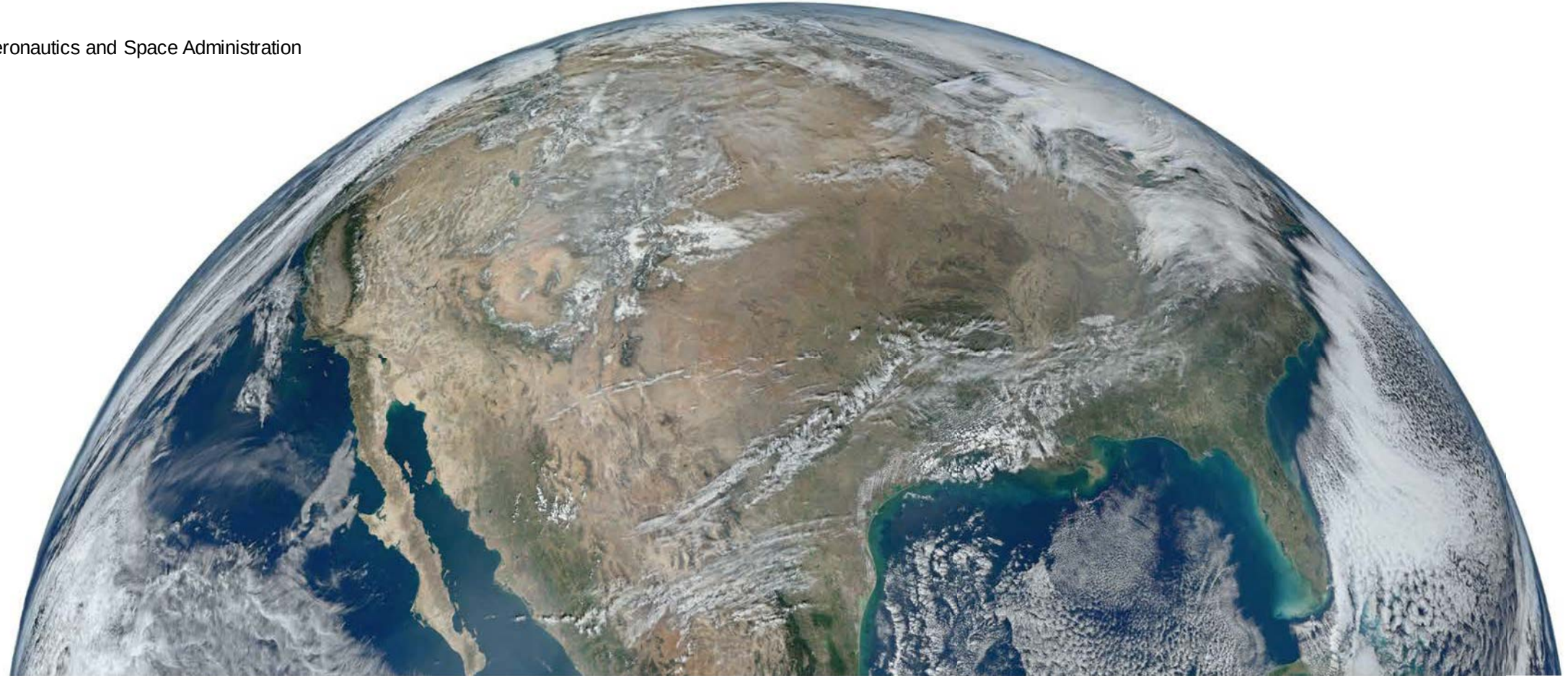
National Aeronautics and Space Administration



Satellite Data for Beginners: A NASA Training

NASA Applied Remote Sensing Training Program (ARSET)

SXSW EDU 2024

Trainers

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Training Learning Objectives

By following the approaches described in this training, participants will be able to:

- Explore ways that satellite remote sensing observations are used to study Earth's systems
- Describe the basic science of how satellite sensors provide data and information that can be used to address concerns such as climate change, natural resources conservation, disasters, extreme heat, and air pollution.
- Identify NASA resources for learning more about how to use and access remote sensing data

NASA ARSET Workshop Agenda

- Welcome
- Introduction to NASA Earth Science
- Fundamentals of Remote Sensing
- Hands-on Exercise (Worldview)
- Next Steps/Educational Resources
- Q&A

Next Steps and Resources

256 instances of participation from high school students and faculty

- 16 countries
- 34 high schools from 20 US states

"I am a high school chemistry teacher and I plan to show this to my students."

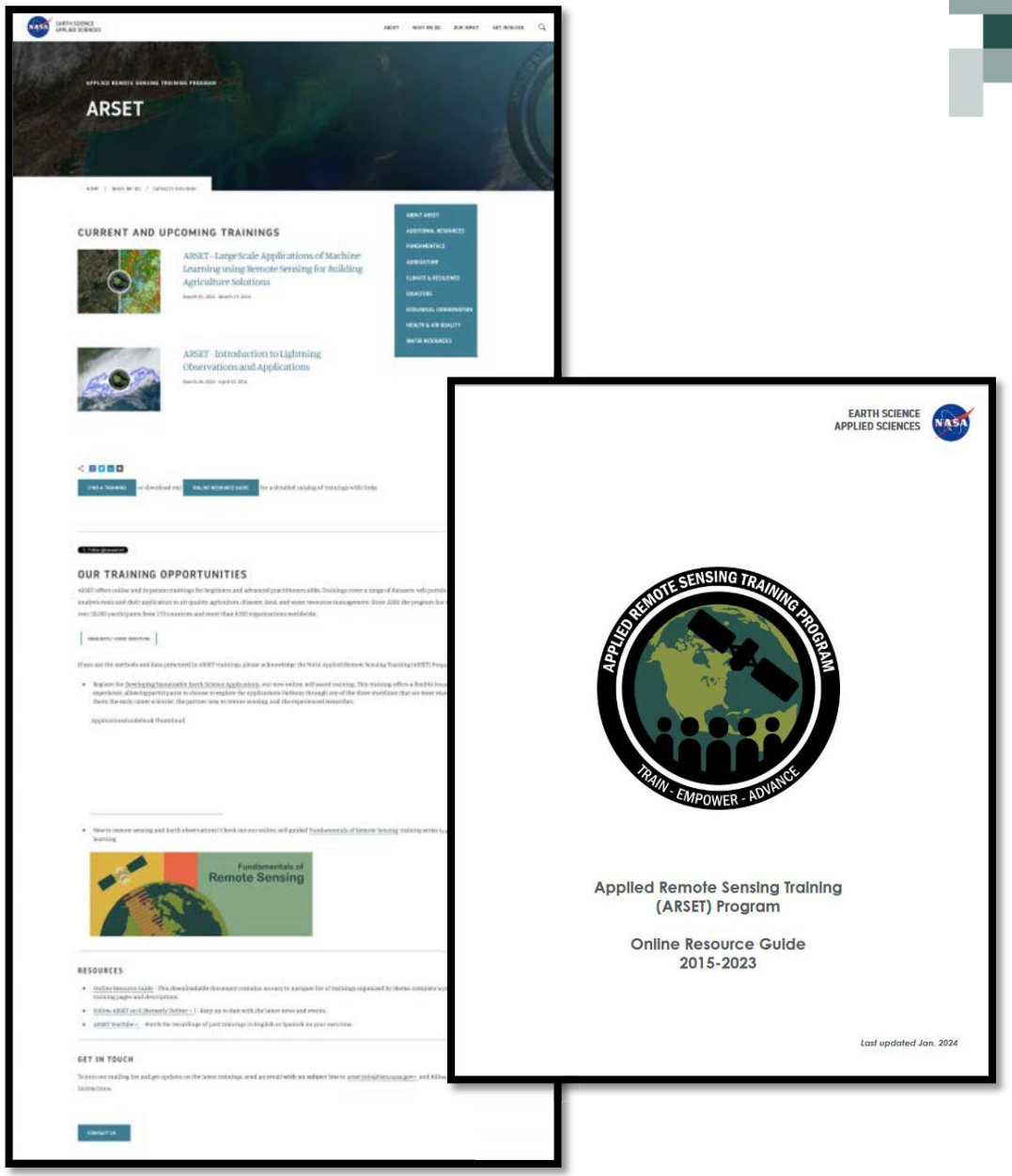
"I intend to apply Earth observations to my work by potentially using the information received in a tech project I am working on."

"I am a high school student researching for Science Olympiad."

"I teach high school environmental science and biology. I am developing curriculum for K-12 students that utilizes data from remote sensing."

Want to keep learning with ARSET?

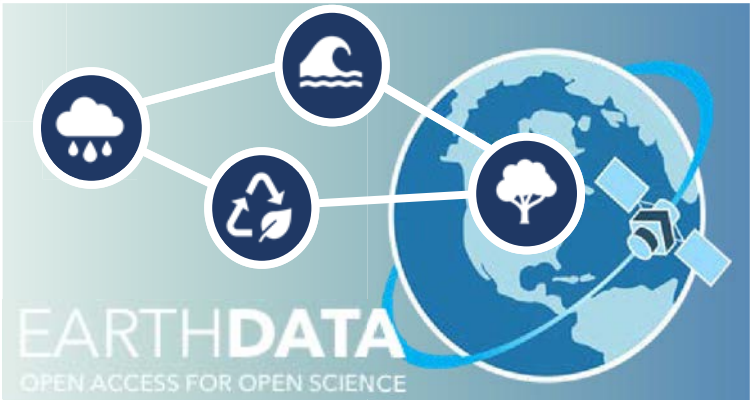
Find more trainings on the [ARSET webpage] or browse our [training catalog]



Disasters Agriculture Land Water Resources Climate Health & Air Quality

Want to keep learning?

- Learn more about NASA's commitment to Open Science (TOPS) and take an Open Science 101 course
- Examine commonly-used datasets across NASA's Earth science data collections in our Earthdata Pathfinders
- Find mini-lessons, interactives for grades 3-12 at My NASA Data



my NASA data

Want to get involved?

- The Global Learning and Observations to Benefit the Environment (GLOBE) Program
  - International science and education program promoting scientific literacy and building connections between people passionate about the environment
- DEVELOP
  - Workforce development program, operates in 10-week terms
- Student Airborne Research Program (SARP)
  - Eight-week summer internship program for rising-senior undergraduates

Contact Information

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- ARSET Website
- Follow us on X (formerly Twitter)!
  - @NASAARSET
- ARSET YouTube

Visit our Sister Programs:

- DEVELOP
- SERVIR

Questions and Discussion