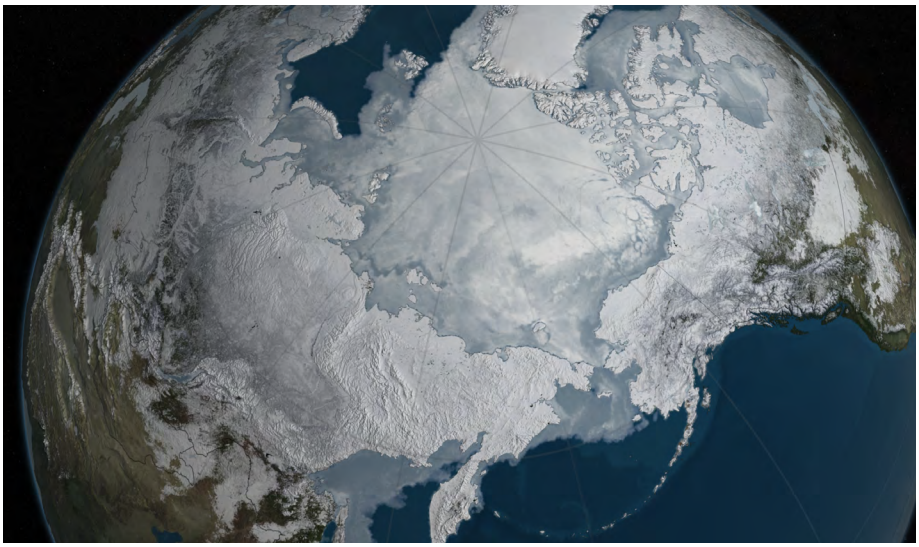
Newsletter

ARSET

September 2025



Welcome to our September 2025 Quarterly Newsletter! First, we have some exciting new training opportunities you won't want to miss. Starting September 10th, we are providing a two-part, online training on **Assessing Extreme Weather Statistics using NASA Earth eXchange Global Daily Downscaled Projections (NEX-GDDP-CMIP6)**. We will also be providing another two-part, online training on **Remote Sensing for Climate-Sensitive Infectious Diseases** next month.

In addition to our upcoming online instructor-led trainings, we're planning to open enrollment for even more online self-paced trainings this quarter. Enroll in "**Hyperspectral Data for Land and Coastal Systems**" now, or "Fundamentos de la Teledetección" (our Fundamentals of Remote Sensing course offered in Spanish) when it opens in October and complete the content on your own time to earn a certificate.

Finally, thank you for your patience as we migrate our training content to our new home on **NASA Earthdata**. If you have any questions about this move or suggestions for improvements, you can always reach out to us via our **contact page**. We also invite you to share with us your stories about how ARSET trainings have impacted your research or career. As always, thank you for your continued participation!

Upcoming Trainings

September 2025

- **Assessing Extreme Weather Statistics using NASA Earth eXchange Global Daily Downscaled Projections (NEX-GDDP-CMIP6)**
- **Solar Induced Fluorescence (SIF) Observations for Assessing Vegetation Changes *(también en español)***
- **Airborne Data Applications for Invasive Species Mapping**

October 2025

- **Remote Sensing for Climate-Sensitive Infectious Diseases**
- **GEDI Spaceborne Lidar for Ecosystem Applications**
- **Fundamentos de la Teledetección**

November 2025

- **NASA Earth Observations and Tools for Active and Post-fire Monitoring and Management**
- **The Global Geostationary Air Quality Constellation**

Recent Trainings

June 2025

- **Lidar Profiling Satellite Observations for Air Quality Applications**
- **Sea Level Change Tools for Planning and Decision Support**

July 2025

- **Introducción al Monitoreo de Incendios Forestales Mediante Observaciones Satelitales y Herramientas de la NASA**

July / August 2025

- **Introduction to NASA Snow and Ice Data Products and Applications for Water Resources Management**

Participant Highlights

Vana Brookins

USA, Academia

While completing her Master of Public Health at George Washington University, Vana Brookins was inspired to explore the applications of satellite data for public health. Prior to her degree program, Vana consulted for the Environmental Defense Fund, where she gathered data on global air pollutants. Almost all of the datasets she found were derived from NASA satellites.

Recognizing the impact remote sensing could have in public health, Vana pursued an independent study project focused on this application. After hearing about ARSET from her professor, our free trainings became central to her research. Vana created a tailored schedule of remote sensing trainings including ARSET modules on Particulate Matter (PM2.5), NDVI, and land surface temperature data to understand how satellite data can support community-level environmental health.

"One of the reasons I did the independent study was because I wanted more technical skills," Vana shared with the ARSET team. "There are so many ways to use remote sensing for public health."

After graduating from GWU in the Spring of 2025, Vana joined the NASA Office of STEM Engagement as an intern for the Earth Information Center. After attending ARSET trainings, Vana can talk knowledgeably about NASA satellites and sensors to EIC visitors.

Do you refer to ARSET materials to learn about remote sensing methods or data, refine your research, or inform your day to day work? Have ARSET trainings meaningfully impacted yourself or your team? **We want to hear from you!** Email us at nasa.arset@gmail.com to share your story.

Please note: Participant highlights illustrate how ARSET participants use remote sensing data in their work and are not an endorsement by NASA or ARSET.

Additional Resources

NISAR Launched! - July 30, 2025

The July 30 launch of the NASA-ISRO Synthetic Aperture Radar (NISAR) satellite, a collaboration between NASA and the Indian Space Research Organization (ISRO), is on its way to revolutionize the study of change on Earth. Equipped with two synthetic aperture radars (SAR), an L-Band SAR and an S-Band SAR, NISAR will scan nearly every land and ice surface twice every 12 days. Learn more about NISAR and its data.

Join the NASA Space Apps Challenge - Oct. 04-05, 2025

Choose from 18 challenges- some specific to Earth science- for you and your team to address at this year's hackathon! Collaborate with participants by forming or joining a team according to your chosen challenge. Learn more here.

NASA Space Apps is an innovation and public engagement program under NASA's Science Mission Directorate. NASA Space Apps aims to promote transparency, participation, and global collaboration as part of the Open Government Initiative by sharing openly available data supplied through NASA and its Space Agency Partners to the public.