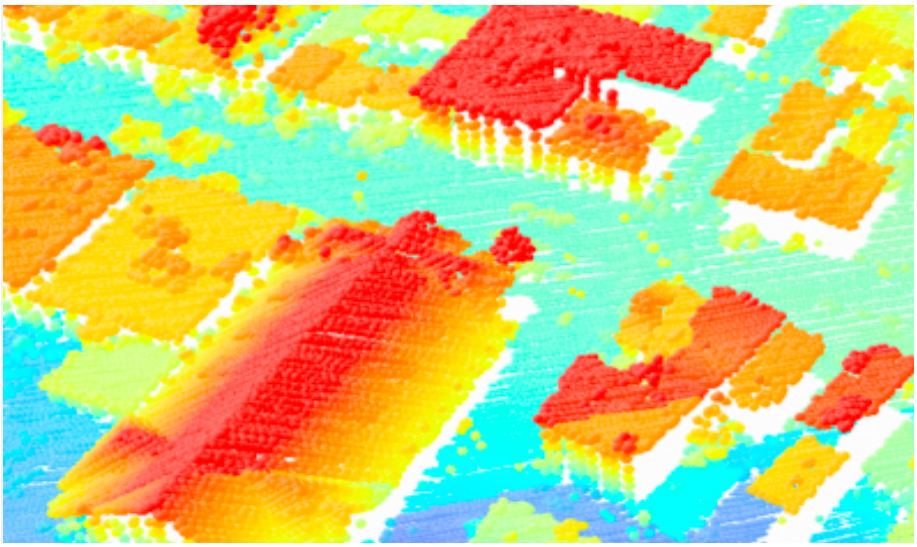
Newsletter

ARSET

December 2023



Welcome to the December edition of the ARSET Quarterly Newsletter! As we bring the year to a close, our training cycle comes to a close as well and we have some time to reflect. We're beginning to put together our 2023 Annual Summary and finalizing our training plan for the coming year.

This past year brought 14 new trainings (12 online and 2 in-person), new team members, an ARSET team retreat at NASA Goddard Space Flight Center, the impending launch of a new learning platform, and a transition from GoToWebinar to Webex to host our online training sessions. Speaking of Webex, we are still working out some bugs and we thank you for your patience. If you have any feedback or questions regarding the new WebEx webinar format, please let us know!

Looking ahead, we have some exciting new trainings planned for 2024, with the first one being a mini training on SeaDAS, a free software package from NASA to help you process, display, and analyze ocean color data! Also look for an ARSET appearance at the SXSW (South by Southwest) Edu Conference in Austin, Texas in March. As always, please keep an eye on your inbox and the ARSET X (Twitter) account for new trainings and updates. We hope you have a wonderful holiday season and we look forward to seeing you again in 2024!

Upcoming Trainings

February 2024
Overview of SeaDAS 8.4.0 for the Processing, Display, and Analysis of Optical Remote Sensing Data for Water Quality Monitoring

March 2024
Large Scale Applications of Machine Learning using Remote Sensing for Building Agriculture Solutions

Recent Trainings

19 - 21 September 2023
Building Climate Risk Assessments from Local Vulnerability and Exposure

03 - 10 October 2023
Transforming Earth Observation (EO) Data into Building Infrastructure Data Sets for Disaster Risk Modeling
(también en español)

26 Oct. - 09 Nov. 2023
Spectral Indices for Land and Aquatic Applications

24 Oct. - 01 Nov. 2023
SAR for Detecting and Monitoring Floods, Sea Ice, and Subsidence from Groundwater Extraction
(también en español)

Participant Highlights

Rafaela Tiengo

Portugal, Academia

Rafaela Tiengo is a remote sensing scientist at the **MaCoBioS project** and a PhD student at the Polytechnic University of Madrid in Spain. She is currently studying land use and land cover change on small islands and has referenced ARSET trainings for information on using Google Earth Engine, SAR, and optical data in her research, and to increase her understanding of related topics. In addition to using ARSET as a resource to further her own knowledge, Rafaela shares a variety of news and resources related to Remote Sensing science via her **newsletter, Twitter, LinkedIn,** and on **The Scene from Above Podcast** - with a new upcoming season - in which she is the news correspondent.

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

Nov. 15, 2023 - Jan. 31, 2024: Earth Observation Visualization Challenge

The Earth Observation Visualization Challenge seeks solvers of all levels to use open data to build visualizations highlighting Zero Hunger, Clean Water and Sanitation, or Climate Action. Solvers of all levels of expertise from around the world can participate by building data visualizations that highlight important global issues.

Interested in SAR (Synthetic Aperture Radar) but not sure where to start?

SAR is a type of active remote sensing where a sensor produces its own energy and then records the amount of that energy reflected back after interacting with the Earth. Check out the What is Synthetic Aperture Radar Backgrounder from NASA Earthdata for more foundational SAR knowledge.

NASA Lifelines

NASA has partnered with the services firm DevGlobal to launch NASA Lifelines, an initiative which brings together scientists and humanitarians to advance the use of Earth science for decision-making. NASA Lifelines will connect experts through an online hub, and share a variety of activities including simulation exercises and events that will match humanitarians and scientists to spark new research collaborations and ideas.

Fifth National Climate Assessment

The U.S. Global Change Research Program (USGCRP) released the Fifth National Climate Assessment (NCA5). The Fifth National Climate Assessment is the preeminent source of authoritative information on the risks, impacts, and responses to climate change in the United States.

Additional Relevant Earthdata Pathfinders

If you've attended a recent ARSET training, you might be interested in the following Earthdata pathfinders to further your knowledge: Biological Diversity and Ecological Conservation Data Pathfinder, Sea Level Change Data Pathfinder, and the Landslides Data Pathfinder.