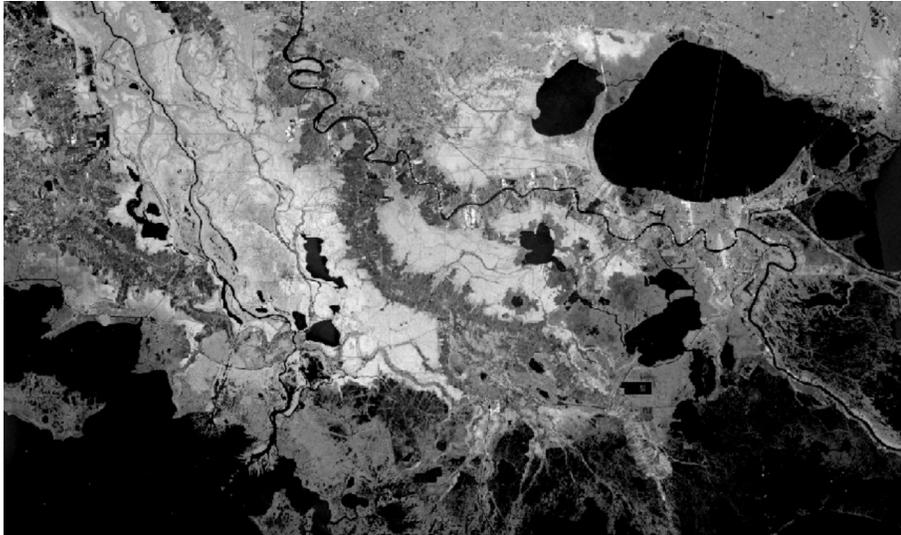


Newsletter



December 2024



Welcome to the December ARSET Newsletter! We've been busy since our last newsletter in September. Since then, we conducted two online Q&A sessions, one on using [radar for flooding](#), and another on [remote sensing for air quality](#). We also conducted our first [training](#) addressing the use of hyperspectral data for water quality applications with the new Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) mission.

In October, our Ecological Conservation training team went to Cape Town, South Africa to give an in-person training in collaboration with [NASA Earthdata](#), the Oak Ridge National Laboratory Distributed Active Archive Center ([ORNL DAAC](#)), and the [BioSCape](#) (Biodiversity Survey of the Cape) project. During this workshop, participants used field spectroradiometers for in-situ data collection to validate new airborne hyperspectral data collected during the BioSCape field campaign.

Our Water Resources and Disasters training team travelled to the UN Headquarters in New York City to deliver another in-person training, jointly organized by UN-Space and the Committee on Earth Observation Satellites Working Group on Capacity Development ([CEOS WGCapD](#)). This in-person training covered a wide range of uses of Earth Observations for societal benefit.

Finally, look out for an updated, interactive Fundamentals of Remote Sensing course, which should be coming out by the end of the year. This updated version will allow learners to obtain a certificate of completion- something that we could not previously offer. We hope to see you in 2025!

Upcoming Trainings

07 - 09 January 2025

[Datos de Metano para la Detección y Monitoreo de Grandes Emisiones](#)

February 2025

[Application of Earth Observations for Assessing Risk of Water-Borne Diseases](#)

February 2025

[Spectral Indices for Land and Aquatic Applications Using QGIS](#)

March 2025

[Landslide Monitoring and Risk Assessment Using NASA Earth System Data](#)

Recent Trainings

25 Sept. - 09 Oct. 2024

[Introduction to Plankton, Aerosol, Cloud, Ocean Ecosystem \(PACE\) Hyperspectral Observations for Water Quality Monitoring \(también en español\)](#)

06 - 20 November 2024

[An Introduction to Synthetic Aperture Radar \(SAR\) and Its Applications \(también en español\)](#)

19 - 21 November 2024

[Methane Observations for Large Emission Event Detection and Monitoring \(también en español\)](#)

03 - 05 December 2024

[Earth Observations of Blue Carbon Ecosystems \(Aussi en français\)](#)

Participant Highlights

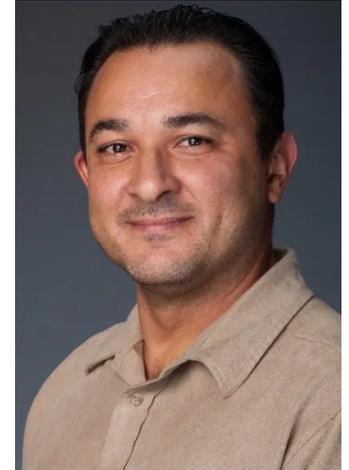
Dr. Juan L. Torres-Pérez

USA, Public Sector

Dr. Juan L. Torres-Pérez is an instructor for ARSET's ecological conservation trainings in addition to being the Principal Investigator of OCEANOS, a NASA project based in Puerto Rico to bring oceanography and STEM opportunities to students in the Hispanic/Latino community.

Students who participate in OCEANOS use both state-of-the-art and do-it-yourself (DIY) instruments and NASA Earth Observations, sometimes for the first time, to study a variety of topics including coastal water quality, coral reef ecology and restoration, and plankton ecology.

Participants in OCEANOS are required to review the ARSET trainings, Fundamentals of Remote Sensing, Remote Sensing of Coastal Ecosystems, Introduction to Remote Sensing for Coastal and Ocean Applications, and Monitoring Aquatic Vegetation with Remote Sensing to get an introduction to remote sensing and satellite data. As a result of a 2024 remote component of OCEANOS, several public-school teachers mentioned they have begun integrating concepts learned from ARSET in their classrooms.



Do you use ARSET to learn about remote sensing methods or data, refine your research, or inform your work? We want to hear from you! Email us at nasa.arset@gmail.com to share more!

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

CHIPS and Science Act of 2022 Survey

Do you work for a U.S. State, Tribal organization, or Territory and use or want to use NASA Earth observation (EO) data for decision-making? Want your perspectives and opinions to be considered and heard by NASA? We are looking for your feedback!

With [this survey](#), NASA seeks to gain insight into NASA's impact, possible gaps and areas for growth, and how users from these sectors could be better supported in their use of EO data for decision-making. Information from the survey will be summarized and shared widely, as well as inform future NASA activities and priorities.

The new NASA Earthdata website is here!

Earthdata's new website is designed to provide users with direct, one-stop access to the data they need, regardless of the scientific discipline, observation method, or data archive. If you know which data you need, we provide access points by topic, platform, instrument, and technique, as well as targeted site search and filter options. If you're still learning, we offer dozens of tutorials, webinars, data recipes, data tools, and other resources to help you discover, analyze, and visualize data. Check out their [new website](#) and [sign up for the Earthdata Discovery newsletter](#) to get the latest for new data and features on the Earthdata website.