Newsletter

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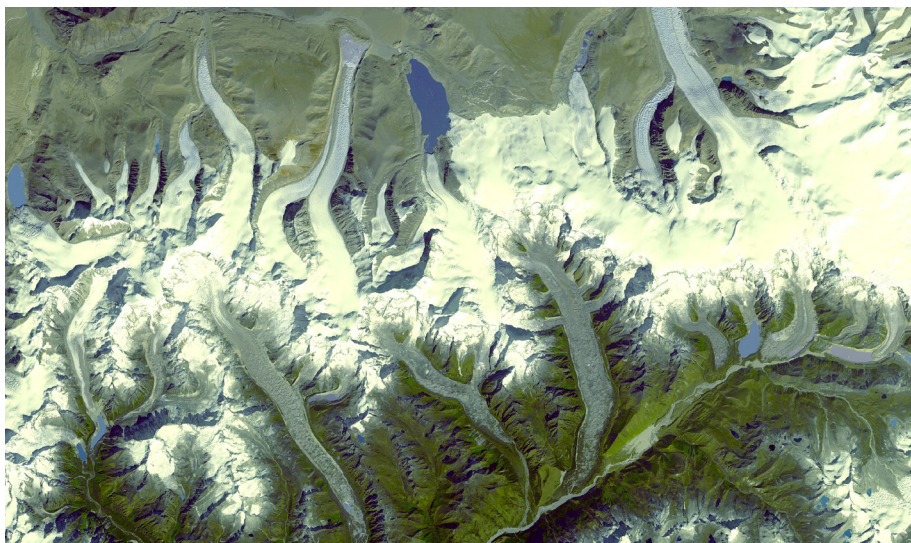
June 2024

Welcome to the June 2024 Quarterly Newsletter! In case you missed it, our **2023 Annual Summary** is available on our website. This year, we have added a new section entirely in Spanish. In it, you can find all of the Spanish-language trainings from 2023 as well as a participation map of Spanish-speaking countries.

In May, three ARSET instructors traveled to the Himalayan Kingdom of Bhutan to give a four-day workshop to use remote sensing data to better manage natural resources, improve land use planning, and monitor disasters. This mountainous country faces landslides, earthquakes, floods, and fires, and our training team used case studies in Bhutan to demonstrate how participants can use NASA Earth observations for natural resource management and climate mitigation. Forty-six individuals from various government ministries, departments, and government-owned holding and investments companies attended. Our sister program **SERVIR**, who has already been doing some amazing work in Bhutan, collaborated with us on this training venture.

In other news, a new module is available for the online, self-paced training, **Developing Sustainable Earth Science Applications**. In this new module, you can follow the story of Kyle, the manager of a community health clinic, as he connects with remote sensing professionals and resources to better understand air quality concerns in his area. If you haven't already, sign up for our email listserv to receive alerts for upcoming trainings! To join, simply send an email with no subject line to **arset-join@lists.nasa.gov**.

Upcoming Trainings

06 - 20 June 2024
Earth Observations for Humanitarian Applications

09 - 16 July 2024
Applications of Carbon Dioxide Measurements for Climate Related Studies
(también en español)

23 July - 01 August 2024
Drought Monitoring, Prediction, & Projection using NASA Earth System Data

08 - 22 August 2024
NASA Atmospheric Composition Ground Networks Supporting Air Quality and Climate Applications

14 - 28 August 2024
Invasive Species Monitoring with Remote Sensing

Recent Trainings

05 - 19 March 2024
Large Scale Applications of Machine Learning using Remote Sensing for Building Agriculture Solutions

26 March - 02 April 2024
Introduction to Lightning Observations and Applications

07 March 2024
SXSW Edu- Satellite Data for Beginners: A NASA Training [In-Person]

Online, Self-Paced
Developing Sustainable Earth Science Applications- Kyle Module

Guest Instructor Highlights

John Just and Erik Sorensen
USA, Private Sector

John Just (top image), lead data scientist at Deere & Co. and affiliate faculty at Iowa State University, had reviewed many ARSET trainings to stay up to date on science and tools, sharing many of them with his colleagues and new hires. John found them very helpful for theoretical and high-level concepts but identified a gap in training content related to his work. In the summer of 2023, John reached out to Sean McCartney, whom he recognized as a host in many ARSET trainings, to share his feedback. Sean identified the topic as a good candidate for an ARSET training, and extended the opportunity to present as a guest speaker to John and one of his colleagues, Erik Sorensen (bottom image), senior data scientist at Deere & Co. As a result of this correspondence, John and Erik were guest speakers for the online training, **Large Scale Applications of Machine Learning Using Remote Sensing for Building Agriculture Solutions,** which reached 1319 participants from around the world. John and Erik now have reference materials to share and refer to internally at Deere & Co, and they have shared their methods and suggested publicly available data so that others around the world may learn from and apply their techniques."

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

Additional Resources

Enroll in Transform to Open Science's (TOPS) Open Science 101 Course
Have you enrolled in the NASA TOPS **Open Science 101** course? Dive into open science learnings & equip yourself with the skills needed to excel in open science! Transform to Open Science (TOPS) is a NASA initiative designed to rapidly transform agencies, organizations, and communities to an inclusive culture of open science. TOPS is part of NASA's Open-Source Science Initiative.

Jun. 14 Deadline: Apply for the Fall 2024 DEVELOP Term
The application window for DEVELOP's fall term is open through June 14. Selected Participants conduct 10-week research projects in interdisciplinary teams of 4-5 people. They work closely with DEVELOP science advisors and mentors to apply Earth observations to address real-world problems. The fall DEVELOP term will be Sept. 16 to Nov. 22. **Apply now**!

Aug. 09: ARSET Session at ESA 2024
The annual meeting of the **Ecological Society of America** (ESA) invites all ecologists to come together and share new knowledge, learn from one another, meet old friends and make new ones, and grow professionally. ARSET will be hosting an in-person session during this year's meeting.

Environmental Justice Data Search Interface
The NASA Environmental Justice Data Search Interface lets you search through hundreds of datasets from multiple missions and view results in list or table view. The new interface enables users to conduct a general search or search within eight focus areas, such as Climate Change, Extreme Heat, Urban Flooding, and Water Availability. **Learn more** or access the Interface **here**.