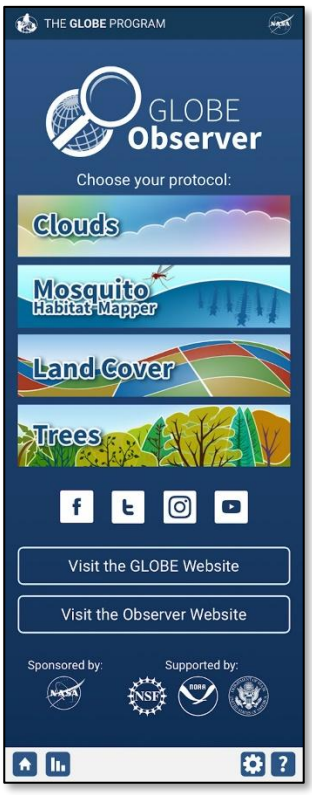
OregonView 2023 - 2024

OregonView 2023 - 2024 Activities

Earth observation satellites provide the ability to apply decades-long time series of data to analyze change and make predictions. These capabilities are critically important in the Pacific Northwest, which faces threats ranging from wildfires to drought to the impacts of a potential Cascadia Subduction Zone megathrust earthquake, including tsunami inundation.

In 2023-2024, the OregonView consortium conducted research, education and outreach focused on time series for understanding both long-term and episodic changes in our region and generating models that can support policy decisions.

OregonView State Coordinator, Peder Nelson, making remote sensing citizen science observations.



OregonView invites participants to use Globe Observer app to participate in our science.

OregonView led the acquisition of citizen science ground reference information supporting time series analysis using satellite imagery. The data were used to assess predictions of change using *in situ* photos. Multiple campaigns were conducted to collect the reference data, which will be used in developing new techniques assessing change across a range of spatial and temporal scales and assessing geospatial models and predictions.

These activities also provided education and outreach opportunities focused on time series analysis using remote sensing. Graduate students led outreach activities at the Oregon Museum of Science and Industry. Tutorials were generated and will be disseminated through the OregonView Learning Academy. The data will also contribute to evaluation of the USGS Annual National Land Cover Database product suite.

Image credit: Trees Around the Globe Student Research Campaign : https://www.globe.gov/web/trees-around-the-globe/overview/hands-on-activities-and-resources

OregonView is a member of the AmericaView Consortium, a nationally coordinated network of academic, agency, non-profit, and industry partners and cooperators that share the vision of promoting and supporting the use of remote sensing data and technology within each state. AmericaView is funded by USGS grant agreement G23AP00683.

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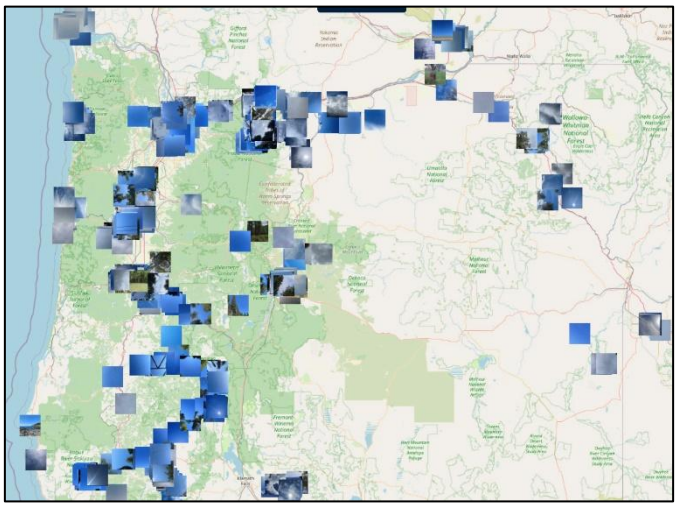
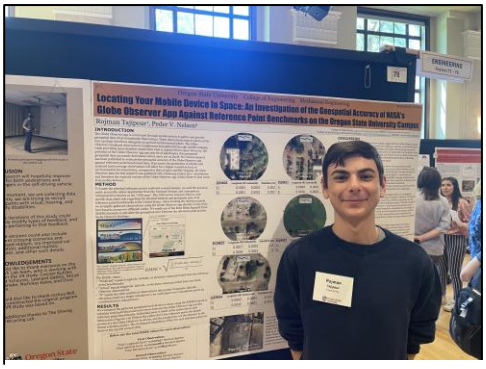
Benefits to Oregon

OregonView engaged local, state, and regional participants in a number of events, including:

- GeoFest: Engaging Oregon's teachers in Earth Observation
- Undergraduate research in Earth Observation
- Citizen science activities



Map showing type and location of ground photos from community of scientists. Available: https://vis.globe.gov/GLOBE/



OSU undergraduate student, Rojman Tajipour, presents at the Spring Research Symposium.

OSU student, Heather Murillo, collecting field data.

OregonView Consortium Membership

The OregonView consortium membership comprises leaders in the remote sensing and geospatial information communities within Oregon and extends across the government, commercial and academic sectors. Member organizations include: Oregon Department of Parks & Recreation, USGS Forest & Rangeland Ecosystem Science Center, Oregon Framework Implementation Team, Oregon Geospatial Enterprise Office, Portland State University, Oregon State University College of Engineering, College of Forestry, and College of Earth, Ocean, and Atmospheric Sciences.

Federal consortium members identified above do not receive funding from AmericaView.

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