

Applied Earth Observations Innovation Partnership (AEOIP) 2024 Annual Workshop

<https://aeoip.com>

“Co-producing EO-driven solutions for fire, forest, ecosystem, and rangeland management”

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Workshop Objectives

- Meet AEOIP’s mission by providing a forum for building new relationships among Earth observations data providers, users, and beneficiaries.
- Gather and/or co-develop shovel-ready ideas to better leverage Earth observations to meet science and management priorities of U.S. land and natural resource management agencies.
- Gather needs for and/or develop educational materials to support the use of existing EO resources for fire management.
- Gather ideas for the 2025 workshop and other AEOIP activities.

Expected Outputs

Below is a list of potential products resulting from the workshop and from breakout activities. Ideally, these products shall be drafted/outlined during the workshop. Breakout leads to guide post-workshop refinement.:

- 1-2 page draft brief, including but not limited to shovel-ready ideas that would leverage Earth observations to meet the science and management priorities of AEOIP partner land and natural resource management agencies.
- Contributions to a comprehensive roadmap for AEOIP current and future activities to support the use of EO for fire management.
- A ‘parking lot’ of ideas.
- A post-workshop summary outlining workshop outcomes, highlights key land management priorities and needs, and synthesizes the breadth of ideas, opportunities and challenges within each thematic breakout.
- Identify potential leaders and collaborators to *incubate communities of practice* centered on themes highlighted during the workshop.
- Develop *educational materials* and post on the AEOIP website (incoming AEOIP summer interns can help with synthesis and design).

Detailed Agenda

Date	Time (local, EDT)	Activity
April 22	11:20 am & 2:50 pm	Field trips  Field Trip Sign-up
	5:00 - 6:30 pm	Optional happy hour at Arbor Tree Lounge (in the Doubletree Hotel)
April 23	8:00 - 8:50 am	Welcome Coffee & Pastries at MTRI KIVA
	9:00 - 9:30 am	Overview of Workshop Goals and Why We Are Here Leads: Workshop Organizers
	9:30 - 10:15 am	Co-production: Honoring the Generative Capacity of Others to Achieve Common Goals [Presentation & Group Discussion] Kira Sullivan-Wiley, Pew Institute
	10:15 - 10:30 am	NASA Earth Science Division: Earth Action Christina Moats-Xavier, NASA Headquarters (virtual)
	10:30 - 11:00 am	Morning Break
	11:00 - 12:00 pm	Practitioner Perspectives: National and Local Priorities & EO Applications [presentations] - Everett Hinkley & Frenchy Morisette, U.S. Forest Service (USFS) - Jake Slyder & Tim Assal, Bureau of Land Management (BLM) - Kevin Butler, Washtenaw County Parks
	12:00 - 12:15 pm	Breakout Topic Elevator Pitches Fuels, Wildland Fire Emissions, Carbon & Climate - Andy Hudak/USFS & Edil Sepulveda Carlo/NASA - Prescribed Fire Planning & Management - Nancy French/MTRI, Birgit Peterson/USGS, Jessica Meisel/U Idaho - Post-fire Effects & Recovery: Assess, Predict, Remediate, and Monitor - Mary Ellen Miller/MTRI - Fractional Vegetation Cover Products & Decision Making - Tim Assal, Jake Slyder/BLM and Liz Hoy, Amanda Armstrong/NASA
	12:15 - 1:30 pm	Lunch on own
	1:30 - 2:45 pm	Breakouts [room assignments below] Daily focus: Foundations: getting everyone on the same page and gain consensus on breakout outcomes and outputs.
	2:45 - 3:15 pm	Afternoon Break
	3:15 - 4:00 pm	Breakout Report-outs
	4:00 - 5:15 pm	NASA Earth Science Division: Program Highlights - Earth Science Data Systems - Stinger Guala - Commercial Satellite Data Acquisition - Melissa Martin - Wildland Fires Program - Amber Soja - FireSense - Jacquelyn Shuman - Equity & Environmental Justice Program - Sabrina Delagado Arias - Interagency GHG Center - Shanna Combley

	5:15 - 5:30 pm	Mandatory Group Photo
April 24	8:00 - 8:50 am	Welcome Coffee & Pastries at MTRI KIVA
	9:00 - 9:30 am	Day 2 Welcome, Overview Daily Agenda Leads: workshop organizers
	9:30 - 10:45 am	Communicating and Soliciting End User Needs: Past, Present, and Future [presentations & panel discussion] - AEOIP - Everett Hinkley, USFS National Remote Sensing Lead - Satellite Needs Working Group - Pontus Olofsson, NASA - U.S. Geological Survey Outreach & Collaboration - Tim Stryker - AK Fire Science Consortium - Alison York (virtual) - Communities of Practice - ESIP, Allison Mills
	10:45 - 11:15 am	Morning Break
	11:15 - 12:15 pm	Data Access & Tools: training [training breakouts] Each topic will be 25 minutes, provided twice - BLM Cloud-based Tools: Change and Disturbance Event Detection Tool (CDED)/Jake Slyder & Tim Assal - LP-DAAC Resources & AppEEARS/Mahsa Jami & Aaron Friesz, - ORNL DAAC & Resources/ Rupesh Shrestha - WEPP Cloud training/Pete Robichaud
	12:15 - 1:45 pm	Lunch on own
	1:45 - 4:00 pm	Breakouts [room assignments & Zoom URLs below] <i>Daily focus: identify and work towards workshop outcomes or outputs</i> - Fuels, Wildland Fire Emissions, Carbon & Climate - Prescribed Fire Planning & Management - Post-fire Effects & Recovery - Fractional Vegetation Cover Products & Decision Making
	4:00 - 5:15 pm	Breakout Report-outs & Poster Session 📍 Poster Sign-up <i>In the MTRI KIVA (likely not a virtual session-though we will try to broadcast the breakout report-outs)</i>
	6:00 pm	<i>Optional No-host Happy Hour @ TBA</i>
April 25	8:00 - 8:50 am	Welcome Coffee & Pastries at MTRI KIVA
	9:00 - 10:30 am	Breakouts [room assignments below] <i>Daily focus: finalize outputs, synthesize discussion for report-out, identify action items and next steps where possible</i>
	10:30 - 11:00 am	Morning Break
	11:00 - 12:15 pm	Plenary: Breakout Report-outs [brief presentations & discussion] <i>Breakout reps give ~5-7 minute report-out as synthesis of how breakout met workshop objectives, overview any outcomes and/or products, review next steps, and pose final questions or observations to the plenary group.</i>
	12:15 - 12:30 pm	Workshop Wrap-up & Adjournment
	1:30 PM -	AEOIP Business Meeting (open to all) CANCELED Meet in the KIVA & Plenary Zoom:

Session Resources & Zoom URLs

Plenary Session	Location	POC	Online Resources
All plenary sessions	Doubletree - Salon A,B,C	Meeting organizers	Directory, Meeting URL
Topical Breakout Name	Location	POC	Online Resources
Burned area and Burned Area Emergency Response	MTRI KIVA	Mary Ellen Miller	Directory , Meeting URL
Fuels, Wildfire Emissions, Carbon, and Climate	Doubletree - Salon A	Edil Sepulveda Carlo, Andy Hudak	Directory , Meeting URL
Rx Fire Behavior, Fuels, Smoke Management	Doubletree - Salon B	Nancy French & Birgit Peterson	Directory , Meeting URL
Fractional Vegetation Cover Products & Decision Making	Doubletree - Salon C	Tim Assal & Jake Slyder	Directory , Meeting URL
Training Breakouts (½ hour, offered twice)	Location	POC	Resources
#1: Land Processes (LP) DAAC	Doubletree - Salon A	Mahsa Jami, Aaron Friesz	Directory , Meeting URL
#2: Cloud-based Remote Sensing Tools at BLM	Doubletree - Salon B	Eric Jensen, Jake Slyder, Tim Assal	Directory , Meeting URL
#3: ORNL DAAC	Doubletree - Salon C	Rupesh Shrestha	Directory , Meeting URL
#4: WEPP Cloud Training	MTRI KIVA	Andy Hudak	Directory , Meeting URL