OAK RIDGE National Laboratory

FIRE DATABASE WORKSHOP

Hosted by ORNL's Biological and Environmental Systems Science Directorate and the Consortium of Appalachian Fire Managers and Scientists

SCIENTIFIC DRIVERS

Fires are projected to become larger, more intense, and increasingly severe in many areas of the globe as a response to climate and environmental changes. Understanding the complex ways fire influences feedbacks between land and the atmosphere is timely and essential for future climate projections. To facilitate studies across the scientific community focused on fire and its effects, there is a need for a central archive of relevant and accessible data from sites affected by fires. These data are critical to enable synthesis and new insights, design of site-level experiments, and advancements in predictive Earth System models.

OBJECTIVES

- To connect experimentalists and modelers and discuss the major research gaps in our understanding of how fire impacts terrestrial ecosystems.
- To identify datasets from existing field sites that can facilitate data synthesis, contribute to fire models, and address field research priorities.
- To discuss the feasibility of ORNL hosting a fire database to provide soil and vegetation data from fire-affected sites around the globe to the scientific community, including feasibility, metrics, and methodologies.

AGENDA

Day 1 – Plenary sessions

1:00 pm	**Introduction**
1:05 pm	**Matthias Forkel** Technische Universität Dresden, Germany
1:25 pm	**Sander Veraverbeke** Vrije Universiteit Amsterdam, Netherlands
1:45 pm	**James Randerson** University of California, Irvine
2:05 pm	**Stijn Hantson** UC-Irvine and Universidad del Rosario, Colombia
2:25 pm	*10 min Q&A*
2:35 pm	**William Riley** Lawrence Berkeley National Laboratory, US
2:55 pm	**Jessica Miesel** Michigan State University, US
3:15 pm	**Thea Whitman** University of Wisconsin, Madison, US
3:25 pm	**Yaxing Wei and Rupesh Shrestha** ORNL DAAC, US
3:45 pm	*10 min Q&A*
3:55 pm	*5 min final considerations, wrap-up, what to expect the following* day

Day 2 - Discussions

Breakout sessions to engage interdisciplinary collaborations, map out collaborative opportunities across major fire themes, and discuss strategies to create a centralized fire database network

SEPTEMBER 1ST–2ND, 2021

1:00-4:00 pm EDT

PARTICIPANTS

Stakeholders from national laboratories and universities are invited to attend.

JOIN US

Contact Fernanda Santos or Jiafu Mao at Oak Ridge National Laboratory.

REGISTER NOW

https://apfire.wixsite.com/database