

# Phase 1: Statements of Interest

Welcome to the FY21 Community for Data Integration Statement of Interest site.

Commenting is open starting October 20, 2020, and we encourage you to enter comments before the voting starts on October 28, 2020.

## Lightning talks

Thursday, October 22, 2020 2-3:30pm Eastern

Slides, recording, comment sheet available: [More information here.](#)

## View and Comment on the Statements of Interest

The statements are visible to the public but only CDI members will be able to comment and vote.

**USGS users:** Log in with your full email address and your AD password.

**Non-USGS users:** Log in with the myUSGS credentials that you received when you joined the CDI.

If you need any help logging in, email [cdi@usgs.gov](mailto:cdi@usgs.gov).

[View and Comment on FY21 Statements of Interest](#)

## All Submitted Statements of Interest

Lead PI	Organization	Title
Josh Ackerman	Western Ecological Research Center	Integrating avian and spatial environmental data to assist scenario planning in South San Francisco Bay restoration
Itiya Aneece	Western Geographic Science Center	Processing a new generation of hyperspectral data on the Cloud using Pangeo
Cara Applestein	Forest and Rangeland Ecosystem Service Center (FRESC)	Tools for incorporating expert knowledge into predictions of sagebrush steppe post-fire treatment success
Theodore Barnhart	Wyoming-Montana Water Science Center	Fire and Water - Integrating Precipitation and Fire Data into StreamStats
Adam Benthem	New England Water Science Center	A framework for the integration of energy life cycle data to support environmental health assessments, identify science gaps, and EarthMAP
John B. Bradford	Southwest Biological Science Center	Operationalizing ecological drought forecasts for drylands of the Western US using high performance computing
Sandra Brosnahan	Woods Hole Coastal and Marine Science Center	An Imagery "ID" System ... Building an "Imagery Dashboard" for rapid and efficient publication of USGS data.
Matthew Cashman	Maryland-Delaware-D.C. Water Science Center	From reactive- to condition-based maintenance: Anomaly predictions and automated review for USGS time-series data
Katherine Chase	Wyoming-Montana Water Science Center	ICE! Ice Jam Hazard Mobile-enabled Website
Katharine Dahm	Office of the Rocky Mountain Regional Director	Integrated Science Outreach Application for Local Stakeholders
Kara Doran	St. Petersburg Coastal and Marine Science Center	Making USGS/NOAA Total Water Level and Coastal Change Forecast data accessible through user-friendly interfaces
John Fulton	Colorado Water Science Center	#MinutesMatter: Real-time data collection and transmission in wildfire burn scars
Daniel Gear	National Wildlife Health Center	Synthesizing mosquito dynamics and coastal storm hazards for public health resilience
Thomas Gushue	Southwest Biological Science Center	Modernizing sensor data workflows to leverage Internet of Things (IoT) and cloud-based technologies
Travis Harrison	Upper Midwest Environmental Sciences Center	R Package for Corps Water Management System Data
Todd Hawbaker	Geosciences and Environmental Change Science Center	Landsat-derived fire history metrics to provide critical information for prioritizing prescribed fire across the Southeast

Liv Herdman	New York Water Science Center	Integrating data to Explore Interactions, Controls, and Heterogeneity in Harmful Algal Blooms (HABS)
Margaret Hunter	Wetland and Aquatic Research Center	Standardizing, aggregating and disseminating USGS wildlife genetic data for improved management and advancement of community best practices
Sue Kemp	Forest and Rangeland Ecosystem Science Center	GIS Clipping and Summarization Tool for Points, Lines, Polygons, and Rasters
Ellis Margolis	Fort Collins Science Center, New Mexico Landscapes Field Station	burnrData: The North American tree-ring fire history database in R
Beth A Middleton	Wetland and Aquatic Research Center	Data synthesis to support water sharing and understanding of carbon resilience in tidal mixed baldcypress/hardwood swamps
Kurtis Nelson	Earth Resources Observation and Science Center	Building opportunities for data collaboration and integration across USGS's wildland fire science
Birgit Peterson	Earth Resources Observation and Science Center	Improving forest structure mapping and regeneration prediction with multi-scale lidar observations
David S. Pilliod	Forest and Rangeland Ecosystem Science Center	Monitoring Design Module for the Land Treatment Exploration Tool
Janet Prevey	Fort Collins Science Center	Site Prioritization Tool for Invasive Species: Integrating Diverse Spatial Data to Improve Decision Making
Annie Putman	Utah Water Science Center	Assimilating complex biogeochemical dust measurements supports community standardization, collaboration, and environmental health research
Sasha Reed	Southwest Biological Science Center	Joining diverse data to improve fire forecasts for the western U.S.: Incorporating hot drought" and intra-annual precipitation variability "
Francis Rengers	Geologic Hazards Science Center	Advancing Post-Fire Debris Flow Hazard Science with a Field Deployable Mapping Tool
Tara Root	Caribbean-Florida Water Science Center	Analysis and Prediction Tool for Coastal Resilience
Douglas Shinneman	Forest and Rangeland Ecosystem Science Center	The Wildfire Trends Tool: a data visualization and analysis tool to facilitate land management needs and scientific inquiry
Camille L. Stagg	Wetland and Aquatic Research Center	A modeling framework to forecast land cover change impacts on coastal wetland carbon in Louisiana
Jens Stevens	Fort Collins Science Center, New Mexico Landscapes Field Station	Predicting successful post-fire reforestation: scaling from data to application
Sean Vitousek	Pacific Coastal and Marine Science Center	Integrating Satellite-Derived Shoreline Data and Predictive Models to Enhance Coastal Change Forecasts
Alisa Wade	North Central Climate Adaptation Science Center	Integrating interdisciplinary data to assess past and future impacts of increasing fire on infrastructure critical to resource management
John C. Warner	Woods Hole Coastal and Marine Science Center	Coupled Ocean-Atmosphere-Wave-SedimentTransport (COAWST) Modeling System 2021 Training Workshop
Phillipe Wernette	Pacific Coastal and Marine Science Center	Coast Train: Massive Library of Labeled Coastal Images to Train Machine Learning for Coastal Hazards and Resources