

# CDI Monthly Meeting 20190213

## CDI Monthly Meeting - 20190213

The Community for Data Integration (CDI) meetings are held the 2nd Wednesday of each month from 11:00 a.m. to 12:30 p.m. Eastern Time.

## Meeting Recording

Meeting recordings are available to CDI Members approximately 24 hours after the completion of the meeting. Please log in to view the recording. If you would like to become a member of CDI, email [cdi@usgs.gov](mailto:cdi@usgs.gov).

## Agenda (in Eastern time)

- 11:00a Welcome and Announcements - Cheryl Morris, Director, Science Analytics and Synthesis, [CDI\\_20190213\\_OpeningAnnouncements.pdf](#)
- 11:10a Collaboration Area Announcements, [CDI\\_20190213-CollaborationAreas.pdf](#)
- 11:20a **CUAHSI tools for water research and data publication - Tony Castronova, CUAHSI**
- 11:50a **FY18 Funded Project Presentation - Workflows to support integrated predictive science capacity: Forecasting invasive species for natural resource planning and risk assessment** - Jake Weltzin, USGS
- 12:05p **CDI 2019 Workshop, June 4-7, Boulder, CO: Community ideas so far**, [CDI\\_20190213\\_WorkshopSlides.pdf](#)
- 12:30p *Adjourn*

## Abstracts

### **FY18 Funded Project Presentation - Workflows to support integrated predictive science capacity: Forecasting invasive species for natural resource planning and risk assessment** - Jake Weltzin, USGS

Timely information regarding the risk of activity of invasive plant and animal species, which are biological hazards, is critical for efficient detection and control efforts by resource managers. The USA National Phenology Network produces and delivers national-scale real-time and short-term forecast maps indicating the optimal time to detect and treat problematic, invasive insect pests including emerald ash borer and hemlock wooly adelgid. These risk maps enhance decision-making and short-term planning by both natural resource managers and members of the public.

The project created workflows and modular, transferable tools and services to benefit USGS and associated stakeholder communities. A key outcome is improved capacity within USGS for ecological forecasting, risk assessment and translational (co-produced) science related to biological hazards. Key stakeholders include natural resource managers within protected areas such as national parks and wildlife refuges, and within lands managed by municipalities, states, tribes and private landholders.

*Jake F. Weltzin is a USGS Ecologist. He serves as the Program Manager for the Status & Trends Program in the Ecosystems Mission Area, and the Director of the USA National Phenology Network.*

## Presentations

**Presentation:** Slides are available to CDI Members. Please log in to download the slides. If you would like to become a member of CDI, email [cdi@usgs.gov](mailto:cdi@usgs.gov).

## Highlights

1. CDI February 2019 Reading List: on the Forum at <https://my.usgs.gov/confluence/x/HwMGJQ>
2. This month's rec: How to be a Modern Scientist <https://leanpub.com/modernscientist>
3. USGS Leadership is interested in short descriptions of USGS Artificial Intelligence/Machine Learning projects, [you can add to an inventory here](#).
4. CUAHSI - Consortium of Universities for the Advancement of Hydrologic Science, Inc. - <https://www.cuahsi.org/>
5. Tony Castronova gave an overview of CUAHSI and then jumped in to a live demo of tools to create and execute reproducible science in HydroShare, using CUAHSI JupyterHub. (Check out the recording for the demo.)
6. There are a lot of tools for learning and sharing workflows with colleagues both in and out of USGS through the CUAHSI tools.
7. Jake Weltzin presented on outcomes from an FY18 CDI funded project. Among the outputs, daily maps that forecast invasive insect activity and tell managers when it is the correct window to perform management actions. [www.usanpn.org/data/visualizations](http://www.usanpn.org/data/visualizations)
8. The invasive species project is working on a report that will outline their experiences with stakeholder engagement.
9. Jake is interested in continuing discussions within the CDI about ecological forecasting and prediction.
10. 2019 CDI Workshop page: <https://my.usgs.gov/confluence/display/cdi/2019+CDI+Workshop>

11. You don't have to sign up in the USGS Conference Database yet, but you should be [browsing and submitting session ideas](#)! We'll make as much of the meeting available online as possible.

## Q&A

1. *Q: What does the "not trusted" message mean at the top of some Jupyter notebooks?*
  - a. *A: (from filipe)* Regarding the "trusted" notebook: <https://jupyter-notebook.readthedocs.io/en/latest/security.html> Pretty much an untrusted notebook will be sanitized by default and the user must re-run it to get results that are JS/HTML.
  - b. *b. (from zafer)* Not trusted: <https://stackoverflow.com/questions/44943646/jupyter-notebook-not-trusted>

## Attendees

A Participant Report is available to CDI Members. Please log in to download the report. If you would like to become a member of CDI, email [cdi@usgs.gov](mailto:cdi@usgs.gov).