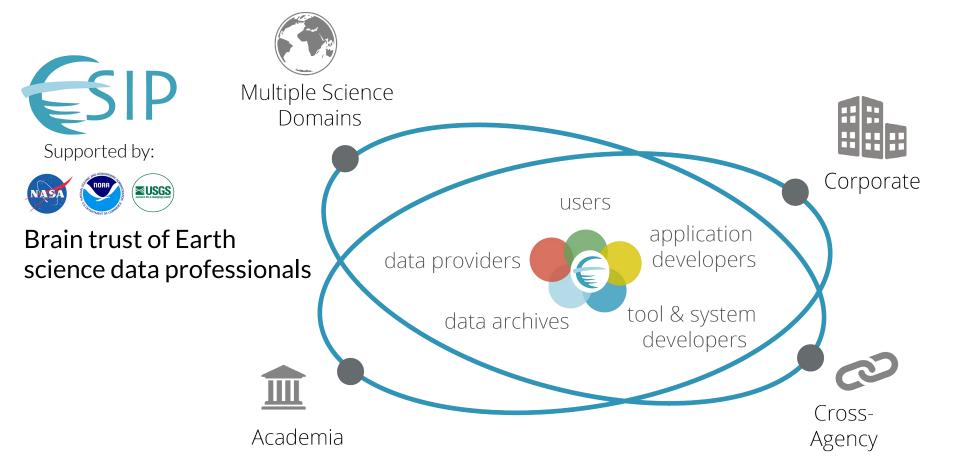


ESIP VISION

To be a leader in promoting the **collection, stewardship and (re)use** of Earth science data, information, and knowledge that is responsive to societal needs.



TYPES OF ESIP PARTNERS

TYPE I

DATA AND INFORMATION DISTRIBUTORS, REPOSITORIES, & ARCHIVE CENTERS



TYPE II

PRODUCT & SERVICE PROVIDERS





TYPE III

EARTH SCIENCE APPLIED SERVICE PROVIDERS







TYPE IV

ESIP SPONSORS



COLLABORATIVE DATA NETWORKS





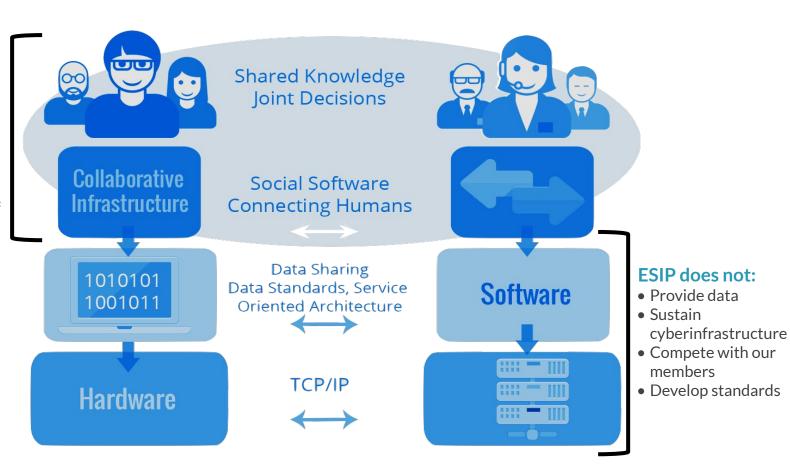
Plus 140 more...

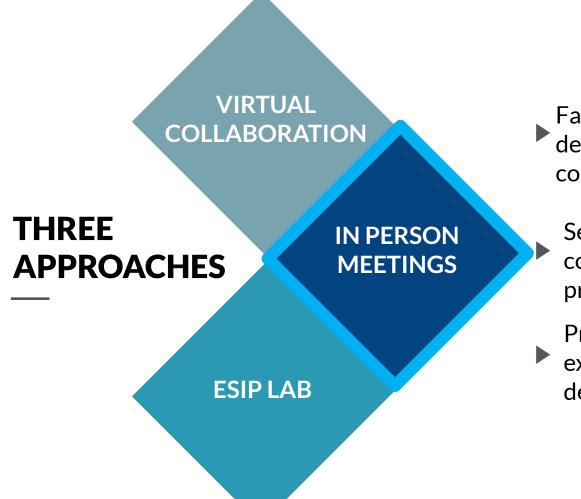
INFORMATION INTEROPERABILITY STACK



Generate recommendations and work products.

Have a lasting impact in the recommendation of standards.





Facilitate professional development, outreach, and collaboration opportunities.

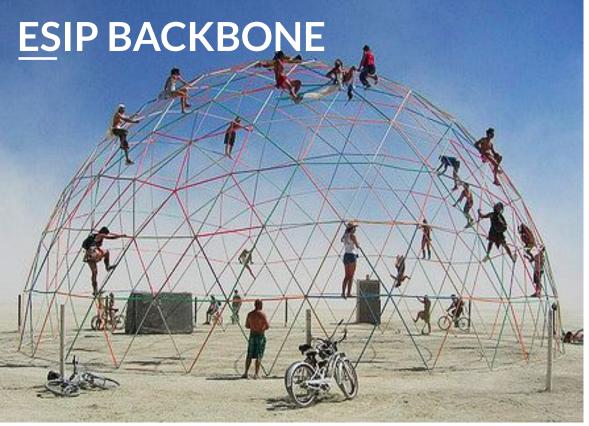
Seed innovation and community-generated best practices.

Provide funding for prototyping, experimentation, and skill development.

ESIP BACKBONE









Erin Robinson
Outgoing Executive
Director



Susan Shingledecker Incoming Executive Director





Annie Burgess Lab Director



Megan CarterCommunity Director

TRADITIONAL MEETINGS

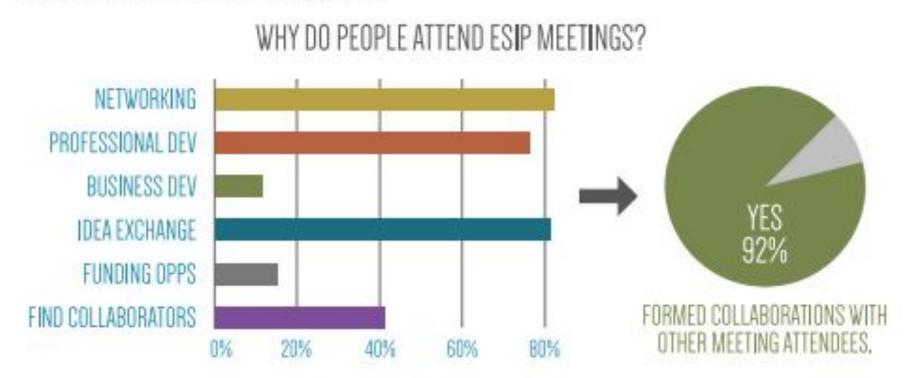


WHAT MAKES ESIP MEETINGS DIFFERENT



ESIP MEETINGS

ESIP in-person meetings, held twice each year, help individuals network, share expertise, and make progress on data-related challenges. Meetings are open to all and typically draw 300 attendees from diverse backgrounds.



WHAT THE ESIP COMMUNITY SAYS ABOUT OUR MEETINGS

A serious meeting that actually performs a function – the data are slightly more interoperable at end of the meetings.

I found my [Earth science data] people.

Highly skilled people who are a good sounding board for ideas.

Hardest questions I ever got were at ESIP.

ESIP is a gathering place for other groups to convene and co-locate their meetings.
Co-located meetings are coveted slots!



Clear professional 'home' for earth science data people.



Timeline of our Pivot to Virtual Conferences



May

- •Reworked our FY20 Budget
- created registration structure for ESIP Summer 2020
- Supported EarthCube **Annual Meeting**

June

- Board approved FY20 **Budget revision**
- Trained session leaders in both tech and new facilitation skills

April

- ESIP Board met and moved next 2 ESIP conferences to virtual
- •Researched Virtual Platforms
- Researched Fee structures
- Cancelled second **ESIP-Supported Meeting**

March -

- Begin contingency planning
- •March 13 Cancelled ESIP-supported meeting planned for April 14-16
- Moved EarthCube Annual meeting to virtual

Questions

Evaluation framed around three guiding questions:

- EQ1: To what extent did the meeting achieve its goals of providing a successful venue for the exchange of knowledge, content, and discoveries about Earth Science and Earth Observation?
- EQ2: To what extent did the online format impact the conference experience?
- EQ3: What are the key takeaways that can productively inform the Winter, 2021 virtual meeting, helping ensure its success, and possibly the future of other ESIP meetings, virtual or in-person.

•

Key Data Sets

- Background inventory, discussions with leadership, design documents
- Attendance at 18 sessions and plenaries, research showcase
- Session feedback (smiley forms, n= 389) and participation data
- Surveys: Mid-point satisfaction (n= 71), Final (n= 101)
- Three focus groups (n= 19)
- Individual interviews (n= 10): ESIP though leaders, conference veterans, new attendees, presenters

Meeting Tech & Design

Liberating Structures

http://www.liberatingstructures.com/

MEETING AT-A-GLANCE

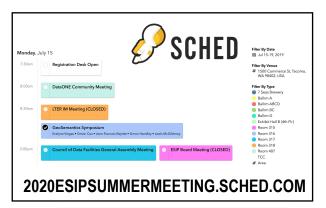
			٧	VEEK 1			
Day 0 - Monday July 15 Day 1 - Tues July 14			Da	y 2 - Wed July 15	Da	y 3 - Thurs July 16	Day 4 - Friday July 17
Biostandards Workshop	11:30	Welcome & Plenary	11:30	Breakout Sessions	11:30	Plenary	11:30 First Friday Event
Developing Community Guidelines for Consistently Curating and Representing Dataset Quality Information							
	13:00	Break	13:00	Break	13:00	Break	
	14:00	Breakout Sessions	14:00	Breakout Sessions	14:00	Breakout Sessions	Research Showcase
	15:30	Break	15:30	Break	15:30	Break	
	16:00	Breakout Sessions	16:00	Breakout Sessions	16:00	Breakout Sessions	(C O),
	16.00	Dieakout Sessions	10.00	Diedkout Sessions	16.00	Dieakout Sessions	
	17:30	End of Day 1	17:30	Break	17:30	End of Day 3	
			18:00	Australian Plenary			(§) (§) (§)
			19:30	End of Day 2			Omo Ato
							REAL VI
							FUNdin
							FRIDA

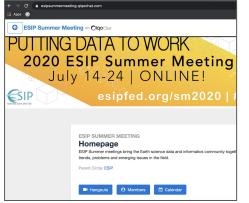
MEETING AT-A-GLANCE

								W	ÆΙ	EK 1										
Day 0 - Monday July 15 Day 1				- Tues July 14				Day	2 - Wed July 15			7	D	Day 3 - Thurs July 16			Day	Day 4 - Friday July 17		
Biostandards Workshop 11:30			11:30 Welcome & Plenary				11:30		Breakout Sessions			11:30	Plenary			11:30) Fi	rst Friday Event		
Developing Community Guidelines for Consistently Curating and Representing Dataset Quality Information																				
					_							4								_
	_	13:00			Break			13:00	Break Breakout Sessions			13:00			Break					
		14:00	Breakout Sessions				14:00	Break		ut Sessions		14:00	Br	Breakout Sessions			1		1	
			-	10			-		-	v	VEEK 2	ļ.	<u> </u>	-					1	_
Day 5 - Monday Ju	uly	20			Day	6 - Tues J	u	ly 21		2	y 7 - Wed Ju	ıly	22		Day 8 - Thurs July 23			Day	9 - Friday Ju	ly :
				1.	1:30	Plena	ar	у		11:30	Breakout S	- 100		11:30				11:30	FUNding Friday	18
				1	3:00	Brea	ak	r		13:00	Brea	k		13:00	Break				8	
					4:00	Breakout :				14:00	Breakout S	_	ions	14:00				Г.		
																			330	
			-1	1	5:30	Brea	ak	:		15:30	Brea	k		15:30	Break		-		AA A	\$
				10	5:00	Breakout :	Se	essions		16:00	Breakout S	ess	ions	16:00	Breakout Sessions	86				
																				B
				1	7:30	End of I	Da	ay 1		17:30	Brea	k		17:30	End of Day 3			l l	平型	\
										18:00	Australian		nary						UNdir	
										Breakout Sessions			1 5	UNUII	יו ע					
															Special Event			I =		
										19:30	End of D	ay	2		Meeting Logistics				FRIDA	Y

MEETING TECHNOLOGY







https://esipsummermeeting.gigochat.com/















esipfed.org/sm2020 | #esipfed

ESIP SUMMER MEETING

Homepage

ESIP Summer meetings bring the Earth science data and informatics community together every July to discuss current trends, problems and emerging issues in the field.

Parent Circle: ESIP





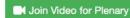


m Calendar



Live Chat!





Help



Hide Breakouts Admin Controls

11:30 AM ET: Opening Plenary & Raskin Award Presentation

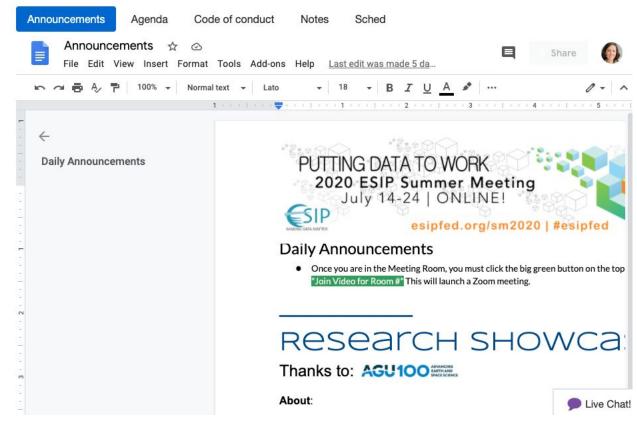
Plenary ____

***Come here for help or use Live Chat! ***

Help Desk

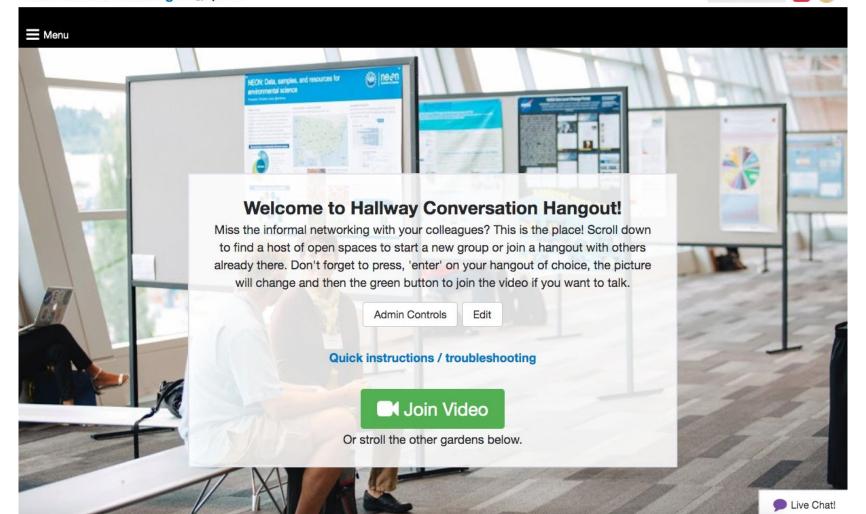
2ET - ESIP Public-Private Partnership Cluster

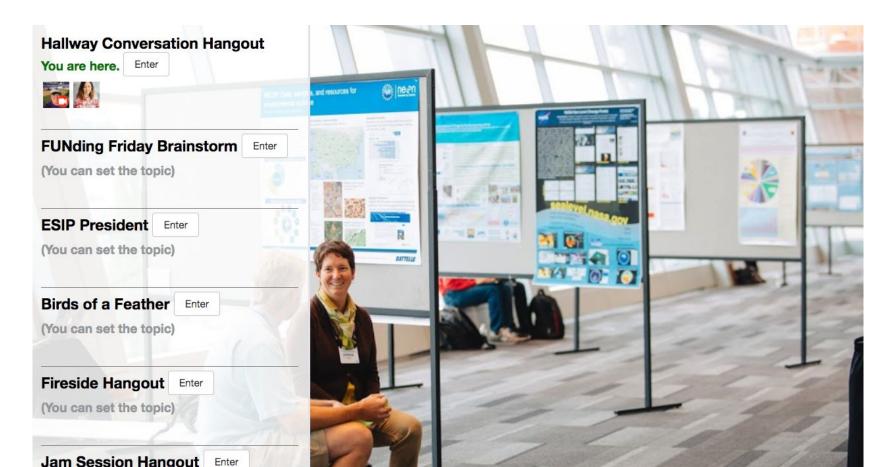
Poom 2

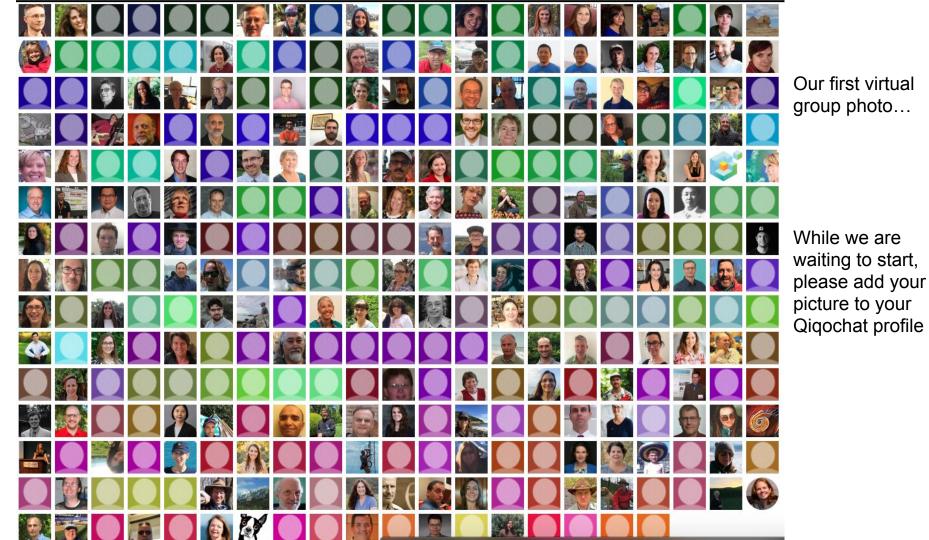








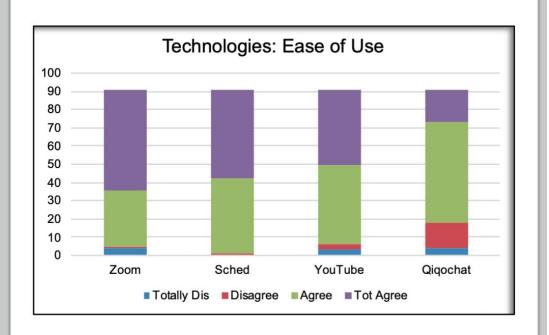




ation, with unity for
n in-
ers and ding of their

Technology Use

- Zoom easiest
- Qiqochat least easy, but still rated 72% ease of use



Pre-Meeting Connections



SM20 Summer Meeting Tech Training

ESIP Summer Meeting Tech Training

We're convening these ESIP Summer Meeting Tech Training sessions to support ESIP Summer Meeting Session Leaders as we convert the 2020 ESIP Summer Meeting from an in-person conference to a virtual conference. We want to bring leaders together for peer-to-peer learning and build skills that will amplify the effectiveness of the content that you are planning. The calls focus on running online meetings and light facilitation support to ensure that we make connections during the ESIP meeting and it's not just a string of one-way webinars. You can register here (optional).



ESIP Session Convener Facilitation Workshop

Charley Haley (charley@back-loop.com) & Fisher Qua (fisher@back-loop.com)

Hi-
The ESIP Meeting starts TOMORROW!
I have said a number of times, this ESIP meeting will be different and one of the key ways it will be different is that you won't sit quietly at home passively listening to a webinar without meeting another person. I hope you will make real connections and the first way I am doing that is by sending you a real email to introduce you to 6-8 other people in small groups.
Small Groups: I have created 56 groups where I mixed attendees to ensure there are members that are new to ESIP and returning to ESIP meetings, ESIP leaders like a Board member, collaboration area leader, community fellow or staff member. There are a variety of career stages mixed into this group as well. You can think of this like the random people you sit down with at a meeting. You don't have to do anything with this group and this is where my coordination stops. You may never so them again and they might become your next collaborator. That said, I thought likely there will be one of you that will jump in and say hello.

Small Group Intro

Your group is included below:

Three other quick ideas for your group:

* Reply all to this note with a quick hello and a bit about how you got involved with ESIP and maybe a link to your qiqochat profile

* If you are leading a session you'd like to share or have contributed a poster to the research showcase - please tell this group!

* Pick a coffee break and one of the Hangouts (scroll down to see the list) in Qiqochat and meet virtually in real life!

During Meeting Connections

MEETING BY THE NUMBERS





196
First Time
Attendees







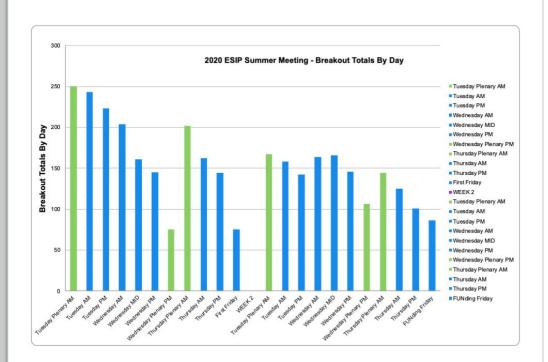






Shape of participation

- Strong beginning of each week
- Week 2 begins at 67% of week 1
- · Green: Plenary
- Blue: Breakouts



ESIP MID-MEETING FEEDBACK

The Good

- People attended ~ 2 sessions a day
- People made at least 1-2 new connections and many made more than that
- Liked Zoom breakouts & interactive, facilitated sessions
- Liked session content avg Sched rating = 9.4
- Going better than expected.
- We are learning.

ESIP MID-MEETING FEEDBACK

The Could Be Better (")

- Zoom limitations for some Federal employees
- Confused by Qiqochat/Sched combo
- Missing bumping into people/More team building/social
- More time for discussion/Q&A
- Way to opt out of breakouts
- Emails... too many
- We are still learning

A few more focus group participants needed: https://doodle.com/poll/c7ht25yrrpdr5mgk



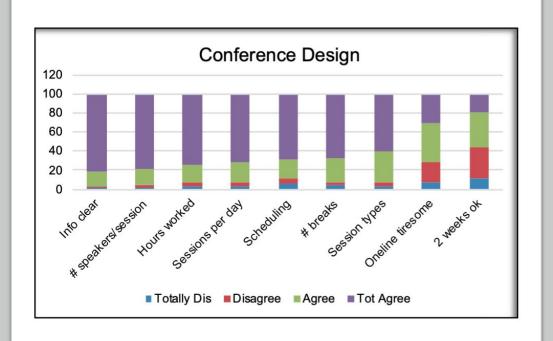
Conference Design

Highest approval:

- · Clarity of information
- # speakers per session
- Conference hours
- # sessions per day

Lowest approval:

- · 2 week time frame
- · Online fatigue

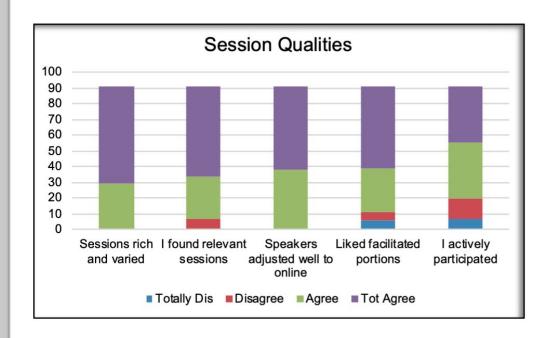


Session Qualities

All agreement high

Highest rated:

- · Rich and varied sessions
- Relevance of sessions



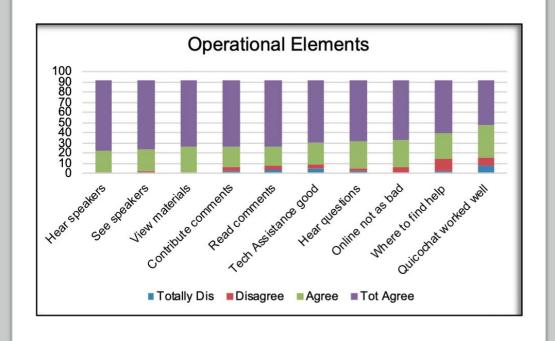
Operational

Highest rated:

- Hearing and seeing speakers
- Viewing materials
- Contributing comments

Lowest rated (still high):

- Qiqohat
- Finding help



Mid-Final Shifts

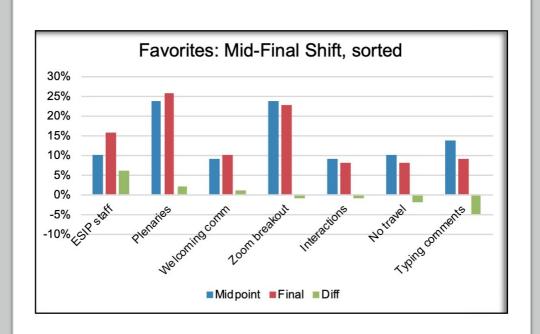
Blue: mid-point, Red: final

Improved in week 2:

- ESIP staff help
- Plenaries
- Community welcome

Declined in week 2:

- · Zoom breakout quality
- · Personal interactions



Post-Meeting Connections

MEETING ARTIFACTS

We use the meeting website to link to:

Session Recordings

Presentations

in Figshare



View Session Recording

Presentations (10 minutes each)

Tuesday, July 16 • 2:45pm - 4:15pm

Cloud Data Optimization: Emerging Best Practices I

Full Abstracts can be found in the attached file.

application development for Earth Sciences.

1. Title: STAC, sat-utils, and Open Data - Prioritizing Data Use (10 min)

Presenter: Dan Pilone (Element 84)

2. Title: Radiant ML Hub, A cloud based commons for geospatial training datasets (10 min)

When data is shared in the cloud, anyone can analyze it without having to download it or store it themselves, which lowers the cost of new product development, reduces the time to scientific discovery, and can accelerate innovation. However, staging large-scale datasets for analysis in the cloud requires consideration of how data should be prepared and organized to allow fast, efficient, and programmatic access from distributed computing systems. This workshop provides a forum for members of the community to share lessons learned as they explore ways to use the cloud to expand data access. It seeks

to encourage dialog between users interested in leveraging data in the AWS Cloud for research and

Presenter: Hamed Alemohammad (Radiant Earth Foundation) Slides: https://doi.org/10.6084/m9.figshare.9696446

3. Title: One data format pattern to rule them all (10 min)

Presenter: Grega Milcinski (Sinergise)

Slides: https://doi.org/10.6084/m9.figshare.9121991

Session **Takeaways**



- 1. Moving to cloud infrastructure offers a chance to reevaluate best practices, though some of these may not be purely cloud-related (e.g., data formats) but the discussions are coming along for the ride!
- 2. It is unclear who will own the cloud-optimized datasets and it will likely be different from dataset to dataset. Until (if/when) cloud-optimized formats become the norm, they may often be provided by other groups (or created on the fly).
- 3. There is a lot of focus on datasets in these conversations, but we need to also focus on tooling/services and education.

Submit to ESIP Figshare: esipfed.org/figshare

Takeaways: bit.ly/sm20takeaways

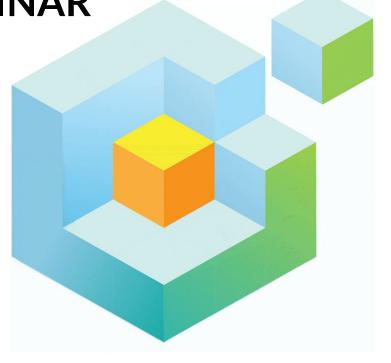




MEETING HIGHLIGHTS WEBINAR

August 13th at 3 pm ET/12 pm PT

DIDN'T GET A CHANCE TO ATTEND ALL THE SESSIONS YOU WANTED TO?



esipfed.org/webinars

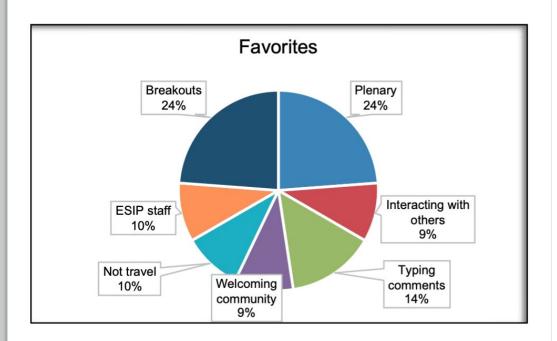
Key Learnings – Pivot

- Making the decision sooner than later allowed us to provide the community certainty
- It was important for us to be able to use some of the tools/systems we had in place for in-person meetings (Cvent, Sched)
- We repurposed our FY20 travel to support facilitation and tech support
- Rethink special events and ways that people will network
- TONS of training
- Feedback & evaluation are more important

Favorite Aspects

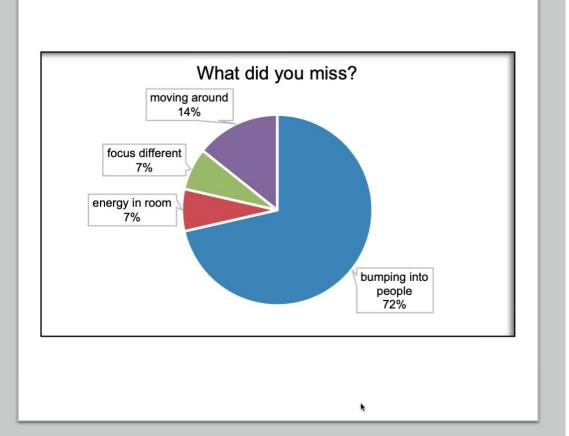
Top rated:

- Plenary & Breakouts
- Ability to type contributions
- ESIP staff
- Not having to travel



What was missed (from F2F)

- Bumping into people
- Moving around

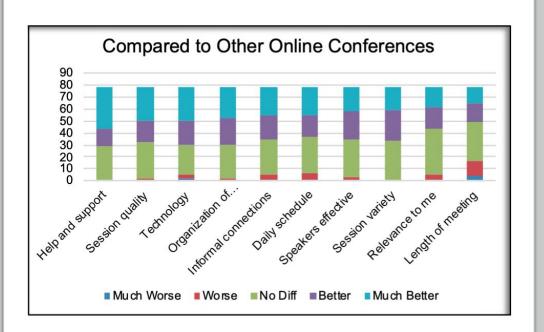


Compared with other online conferences

All dimensions were at least as good if not better

Top rated:

- Support
- Quality
- Technology
- Organization



Question 1: To what extent did the meeting achieve its goals of providing a successful venue for the exchange of knowledge, content, and discoveries about Earth Science and Earth Observation?

- ESIP built an online environment to host and manage their annual conference, which by all measures was successful.
- Using the home 'wrapper' of QiqoChat provided a site and webspace for 512 attendees to learn, contribute, and interact around issues of Earth Science and Earth Observation.
- The meeting achieved all goals and gained knowledge and insight into offering future online meetings.
- Findings will likely influence upcoming online meetings, but help design decisions for future inperson meetings as well

Question 2: To what extent did the online format impact the conference experience? (What are the affordances, assets, drawbacks, etc.)

- 94% of attendees satisfied with the meeting; online format, impacted the conference experience only slightly, as compared with previous years (in-person)
- Significant elements missing, namely meeting colleagues and bumping into friends, not successfully mimicked online. There were other pieces missing, such as physical movement, having travel time to focus thoughts on the meeting, and being together in a single time zone.
- However, data suggests that:
 - overall focus on sessions and knowledge sharing may have been greater than in-person meetings
 - time was spent more efficiently (you didn't need to walk distances from session to session)
 - people got lost less
 - materials and shared workspaces and documents were more readily available
 - contributions increased as a result of both text and audio questioning formats
 - online format may have had more positive impacts than negative.

Special Events



■ Today: Live Q&A in the Research Showcase Poster & Demo Gallery

Challenge for the next 30 min:

- ☐ View ~4 presentations, including:
 - 1 that is not in your wheelhouse &
 - 1 by someone you do not know.
- Ask or leave a question/comment for each you view.

Focus for each round:

- 1. Presentations 1-12
- 2. Presentations 13-25
- 3. Presentations 26-37
- 4. Any presentation

Join Live Q&A and/or Leave Questions





0:00

Hide Breakouts

Admin Controls

Research Showcase Sponsored by AGU

Main Room

Come here for help or use Live Chat

Help Desk

Environmental Enforcement Watch Project | Cole Alder

Presentation 1

Flow-Conditioned Parameter Grids: A CONUS Hydrologic Parameter Dataset For Mechanistic, Statistical, and Machine Learning Models | Theodore Barnhart

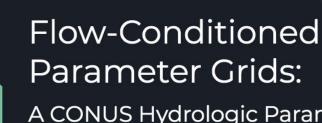
Drocontati



Presentation Lea



Click here to leave questions or comments



A CONUS Hydrologic Parameter Dataset For Mechanistic, Statistical, and Machine Learning Models

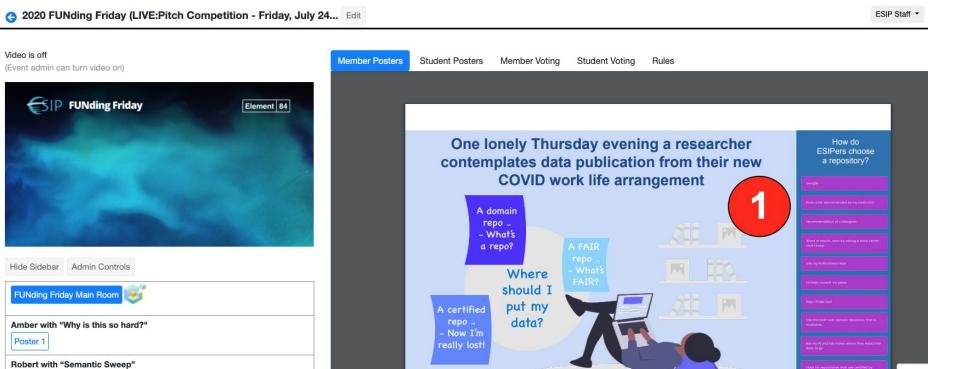
Theodore Barnhart, August Schultz, Seth Siefken, T. Roy Sando, and Peter McCarthy Wyoming-Montana Water Science Center

ESIP Virtual Poster Session - July 17, 2020

U.S. Geological Survey

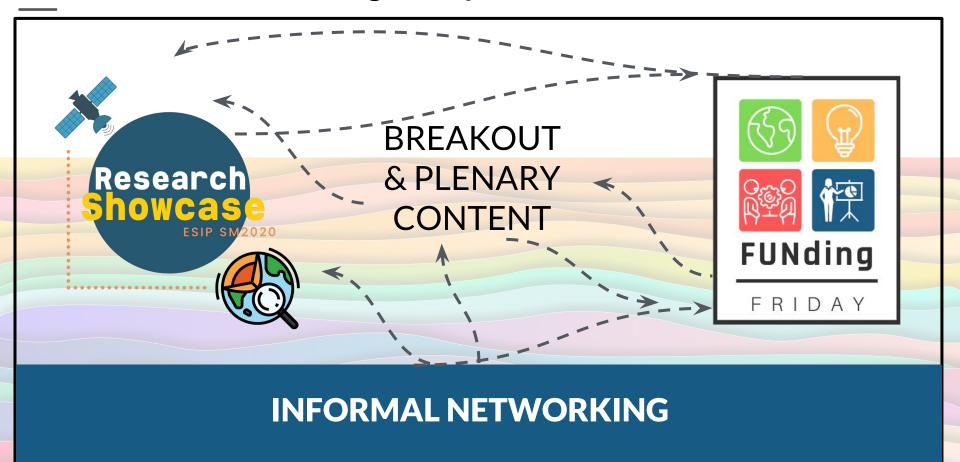


What is a Flow-Conditioned Parameter Grid?



https://1.qiqochat.com/breakout/0/NvDczLZrDnlTQHCzckzKPSqUj

FIRST FRIDAY & FUNding Friday





THANK YOU

ERIN ROBINSON @ESIPFED.ORG



ESIP Meetings ESIPFED.ORG/MEETINGS

ESIP Collaboration Areas ESIPFED.ORG/COLLABORATE

ESIP Lab ESIPFED.ORG/LAB









Resources – ESIP

- ESIP Summer Meeting: https://2020esipsummermeeting.sched.com/
- ESIP Session Breakout Leader Guidance:

 https://docs.google.com/document/d/1dllJQyR0-Ky7RbisYjjsxe-pXM4JCaL5J8Ca2osStRo/edit
- ESIP Summer Contingency Plan: https://docs.google.com/document/d/1AJiOHR0JxOktusN6iJXg58ZrDptV3bfS4LgAjHP_IUY/edit
- Virtual Conference Pricing Justification Background:

 https://docs.google.com/document/d/1-Xlvnsrmhn95TVg1ueXEiNg0x-oEX0sbANnHN8NgLvQ/edit

Resources – Gathered from around the Internet

Virtual Conference Resources

- A guide to hosting on Zoom:

 https://docs.google.com/document/d/1KLRrnm6g5YvD8QRSPwwNWg6NPk9FYvMpZPv_XEvOmMM/edit#
- ACM Presidential Task Force on What Conferences Can Do to Replace Face-to-Face Meetings
- Mozilla Blog: Rapid Virtual Meeting Prototyping in the Age of a Pandemic
- Liberating Structures (particular recent work on how to turn in-person methods into virtual methods)

Key Learnings – Registration Fees

- Consider pricing structures for elearning/courses*
- We based our price on \$25/hour of plenary content and the cost of full use of our platform for the 10 days of our meeting
- We provided comp'd registration for Session Leaders to give to 1-2 new to ESIP speakers

^{*}Source: https://helloendless.com/virtual-event-pricing/