

# Meeting Highlights

2023 January ESIP Meeting  
January 23–27, 2023



EARTH SCIENCE  
INFORMATION PARTNERS

[esipfed.org](https://esipfed.org) | [#EarthScienceData](https://twitter.com/EarthScienceData)

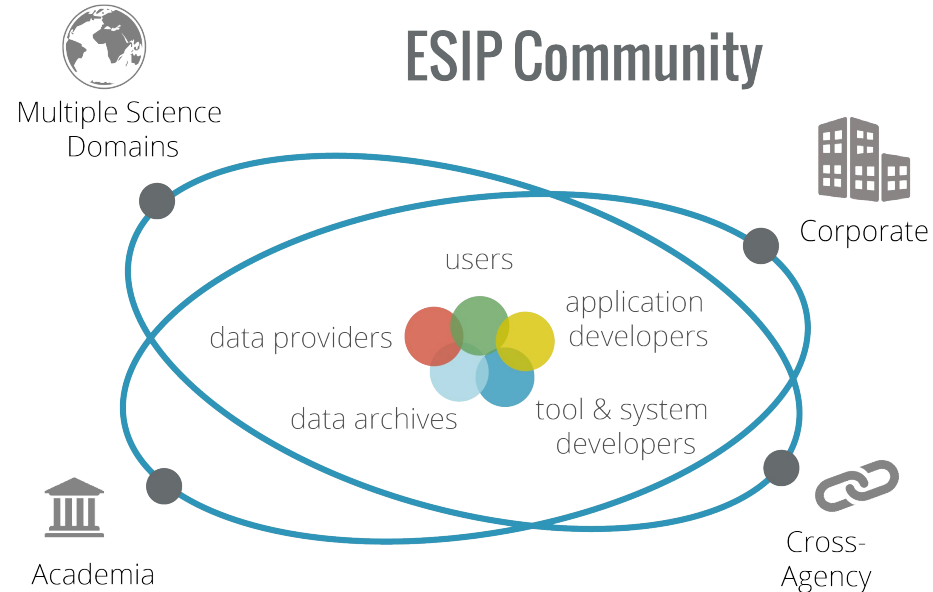
Image Credit: USGS - Dec 2022 Mauna Loa eruption

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**ESIP** is a brain trust of Earth  
science data & computing professionals



A stylized white graphic of an open door, with the door frame and the open door panel visible. The door is positioned on the left side of the banner, and the text is placed to its right.

# ESIP Meeting January 2023

Opening Doors to Open Science





#ESIP2023  
Group Photo



# MEETING BY THE NUMBERS

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3

Plenary  
Sessions

33

Research  
Showcase  
Presentations

27

Breakout  
Sessions

101

First-time  
Attendees

312

Attendees

100+

Organizers &  
Speakers

# MEETING TECHNOLOGY



Tuesday, July 19

8:30am EDT Opening Plenary

10:00am EDT Coffee Break Networking

11:00am EDT

- Building a Thriving Open Science Community
- Creating a "10 things" list about Data Management for (Deep) Ocean Scientists
- Human atlas of Earth science information: a use case for Federated Knowledge Graphs

12:30pm EDT Lunch

**2023JANUARYESIPMEETING.SCHED.COM**



2022 ESIP July  
2243 Views  
343 Downloads

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ALL CATEGORIES SEARCH % Sort Period: date

19,250 items 20,000 downloads more info...

**ESIP.FIGSHARE.COM/SUBMIT**



JUL22 ESIP Meeting Takeaways

Tuesday	2:0-3:0	Content to Key: Enhancing Data Access, Use, and Understanding	Government data, even when placed in technical reports, can be challenging to find, access, and use	A one-stop source of open data that the data you might need, but it doesn't have all data access needs	Why the session: Experts will try to build on what we learned and will create sessions with a more constructive and open critical lens in the future.
Tuesday	2:0-3:0	Melrose? Melrose!	Data to Play (DTP): User Experience (UX) + Data Touch & Feel EarthData in Metaverse	Play to Science (P2S): Plan > Bootstrap	Science to Earn (S2E): Verify > Trust

**esipfed.org/jan23-takeaways**

Plenary Room

video is off

Admin Turn video on

Admin Controls

1:30 pm ET: Closing Plenary - State of ESIP & Peer Recognition Ceremony

Plenary Room

Come here for help or use Live Chat

Help Desk

11 am ET: Creating Best Practice Extensions for the Biological Data Standards Primer

Announcements Sched Slide

Search the menu (Optional)

2023 January ESIP Meeting | Jan 23-27 | Questions? Visit the Help Desk | Need call-in info? Click! [Help](#)

Select your "room" then click [Join Video](#) on the top left to enter your session's Zoom. If you have any questions or trouble connecting, head to the Help Desk!

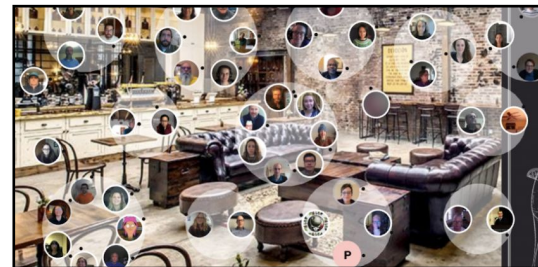
Have you checked out the [Research Showcase Poster & Demo Gallery](#)? It's open all week!

Looking for something?

- Need help navigating Qiqochat? [Watch the video tutorial](#).
- The full agenda? [See at a glance on Sched](#) plus receive daily email updates
- Virtual background? [Download ESIP-themed Zoom backgrounds](#).
- Conference hashtag? #ESIP2023 and tell us what you are learning on Twitter and LinkedIn.
- The Doors ESIP t-shirt? Check out the design: [esipfed.org/jan23-tshirt](#)



@ESIPfed  
#EarthScienceData  
#ESIP2023



<https://2023januaryesipmeeting.qiqochat.com/>



# Find & Access Meeting Content



## Building a Thriving Open Science Community

Sign up or log in to save this to your schedule, view media, leave feedback and see who's attending!

<https://sched.co/12e>



Tweet



Share

Feedback form is now closed.

Zoom Recording  
Notes Doc

Open science is rapidly gaining momentum in part due to its potential to amplify discoveries, ramp up challenges. But what are the key characteristics of successful open science initiatives and projects? Do experienced as open science communities develop? And how can successes be scaled to achieve a true community that thrives on trust and transparency, ensuring readily accessible, scientific data for all people from a broad community including academia, non-profits, and public and private sectors will share the data accessibility, software, tools and results, reproducibility of the scientific workflow, and inclusivity. Opportunities for leveraging community resources to develop capabilities and improve the creation of to inform ways in which beginners and experts can contribute to open science projects and results. Can be described in terms of the critical factors that enable or prevent success. Examples of the benefits of open science in terms of professional development, community involvement, and the results produced.



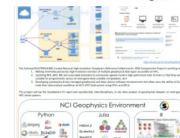
**Which Levels of Data Processing Should We Persist and Make Available?**  
Poster posted on 2023-01-23

Lesley Wyborn



**NASA Airborne Facility Instruments at the ORNL DAAC: ...**  
Poster posted on 2023-01-23

Michele Thornton



**Enabling Scalable In-situ Geophysical Data Analysis on the Cloud**  
Poster posted on 2023-01-19

Nigel Rees



**NASA GES-DISC Knowledge Base: Connecting Science, Knowledge, Management, Systems, and Publications**  
Poster posted on 2023-01-19

Armin Mehrabian



**Celebrating Four Years of Collaboration**  
Poster posted on 2023-01-19

Mingfang Wu



**Animals on the Move: Using Technology to Track Marine Life and Ecosystems**  
Poster posted on 2023-01-18

Chris Simonello



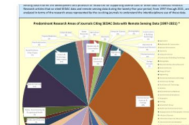
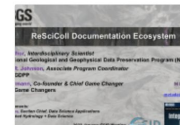
**HMC: Towards a FAIR Data Space for Helmholtz Earth and Beyond**  
Poster posted on 2023-01-18

Emanuel Soeding



**Cheverly Community Air Quality Monitoring Dashboard**  
Poster posted on 2023-01-13

Qian Huang



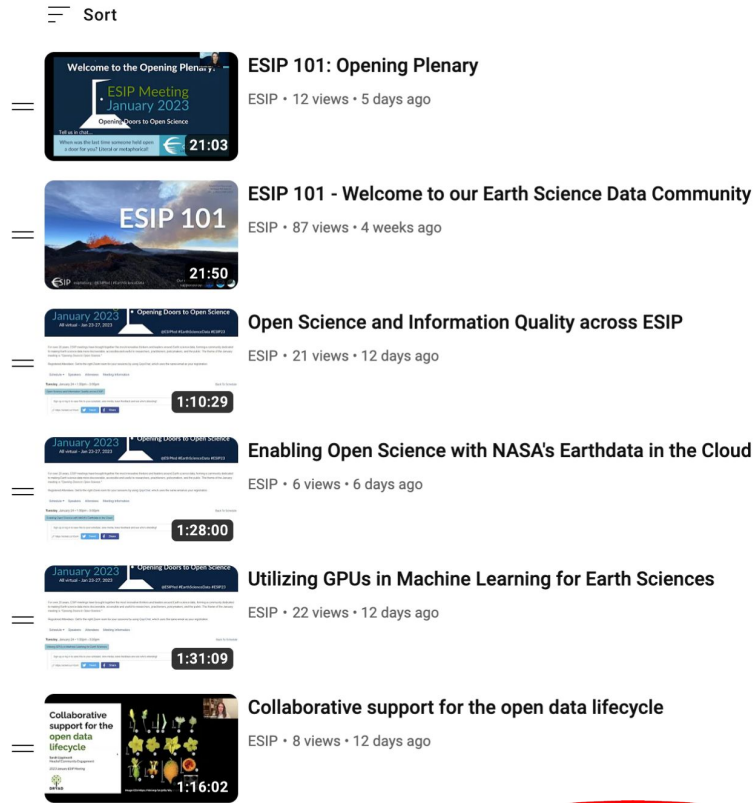
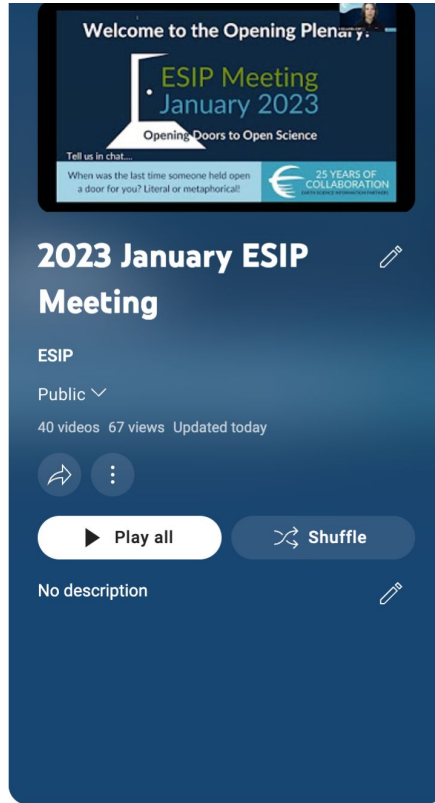
By Session:

<https://2023januaryesipmeeting.sched.com/>

Browse Presentations:

[https://esip.figshare.com/ESIP\\_January\\_2023](https://esip.figshare.com/ESIP_January_2023)

# Find & Access Recordings



Find Recordings on the ESIP YouTube Channel: [youtube.com/c/ESIPFed](https://youtube.com/c/ESIPFed)





# Plenary Highlights

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Image Credit: USGS - Dec 2022 Mauna Loa eruption

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# Opening Plenary

Dr. Rebecca Heiss shared with us ways to develop a Fearless Mindset to open the doors to change in our world and our work.

## Takeaways:

- Exercising discomfort, or stress inoculation, helps to condition your mind that stress isn't always bad - enduring uncomfortable things together.
- Under stress our brain can go to ANT- Automatic Negative Thoughts - Be curious Fear and Curiosity can not co-exist. Start asking questions!
- Fail to Dare or Dare to Fail - failure is only guaranteed in one of these!

**Contact:** Susan Shingledecker



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**Tags:** change mindset, is it a tiger, dare to fail, activate your adventure alternative



# Plenary: Digital Twins for Earth Systems - Past, Present and Future

## A PANEL OF THOUGHT LEADERS ON THE PAST, PRESENT, AND FUTURE OF DIGITAL TWINS

**Speakers:** Benjamin D. Smith, Jean-Marc Delvit, Peter Bauer, Michael Goodchild

### Takeaways:

- Digital twins have data from many sources, running inter-connected models at many physical and temporal scales (B. Smith, NASA AIST).
- Federation of data, models, and computing is complicated but necessary to make progress in the field of digital twins (J.M. Delvit, French National Space Agency)
- Digital twins should take into account our physical environment and everything that matters to society, e.g. food, water, livelihoods. (P. Bauer, ECMWF)
- There is abundant and rapidly growing interest in Digital Twins, but there is no real standard about what can be claimed as a digital twin. (M. Goodchild, UCSB - emeritus)

**Contact:** Chaowei Yang and Thomas Huang



# Session Highlights

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# Coordinating Environmental Justice Initiatives Across Organizations



Panelists from EDGI, NASA, DoI, EPA, and Until Justice on data for EJ

## Takeaways:

- Might be useful to **create a space within ESIP** to have conversations about environmental (data) justice: [join here!](#)
- There are **many public resources** available from different agencies that are meant to support EJ — maybe an **overwhelming number**, not very interlinked across agencies

## Takeaways (cont):

- There was interesting tension in the language and logics between EJ community presenters and agency presenters working in EJ offices, e.g. “with” vs “for”, “solidarity” vs “empathy”—pointing to **framing challenges that could inhibit collaboration**

**Contact:** Kelsey Breseman, @kelsey on Slack, [ifoundthetheme, ifoundthethemeaningoflife@gmail.com](mailto:ifoundthetheme@gmail.com)

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**Tags:** environmental data justice, environmental justice, data, information, data tool

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# Exploring ESIP's International Connections at both the organisational and at the cluster/individual levels

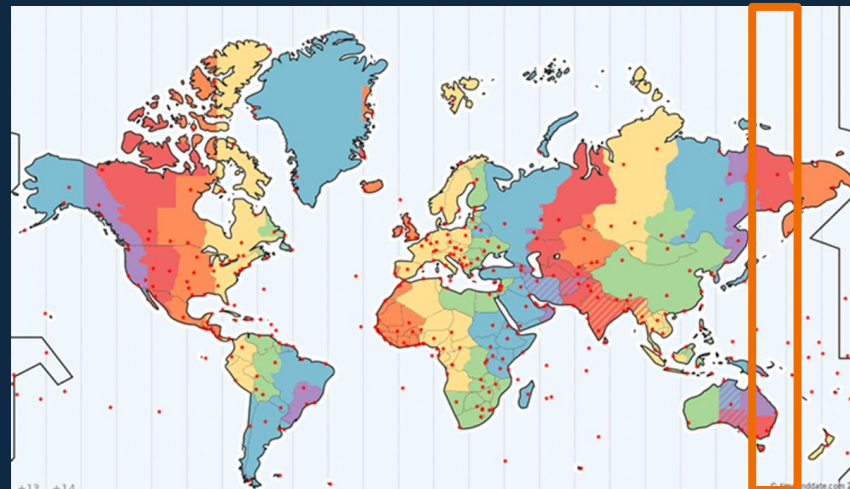


Ascertain **current** international participation by ESIP at both an organisational level and at level of individuals/clusters in ESIP activities and determine whether these should be enhanced, left as is or dropped.

## Takeaways: International Connections Exist (China, India)

- At the organisational ESIP has a place on GEO Program Board and there is the ESIP/RDA ESES-IG - but few know.
- At the cluster/individual level there are many international connections, but no one knows about these. Can each ESIP cluster list on its web page known international/national connections? Time zones are a killer for virtual participation.
- Our focus was on current connections, but social justice and colonialism issues were raised that will need to be considered were ESIP to expand to the Global South.

**Contact:** Lesley Wyborn, Susan Shingledecker



Source of Graphic: <https://www.timeanddate.com/time/time-zones.html>

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Tags: International, collaboration, ESIP

[Session notes are here](#)

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# Collaborative support for the data lifecycle

Exploring how each element of the data lifecycle contributes to open science, and the roles played by diverse stakeholders.

## Takeaways:

- Data archiving isn't the same as making data accessible/reusable (both are important!)
- Limited capacity and knowledge within research teams is a pervasive challenge
- Collaboration is essential to achieving FAIR data

**Contact:** Sarah Lippincott [sarah@datadryad.org](mailto:sarah@datadryad.org)



**Tags:** data management, open science, open data, FAIR data

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# Using Open Data to Fight Air Inequality: Introduction to the OpenAQ Platform and Use Cases

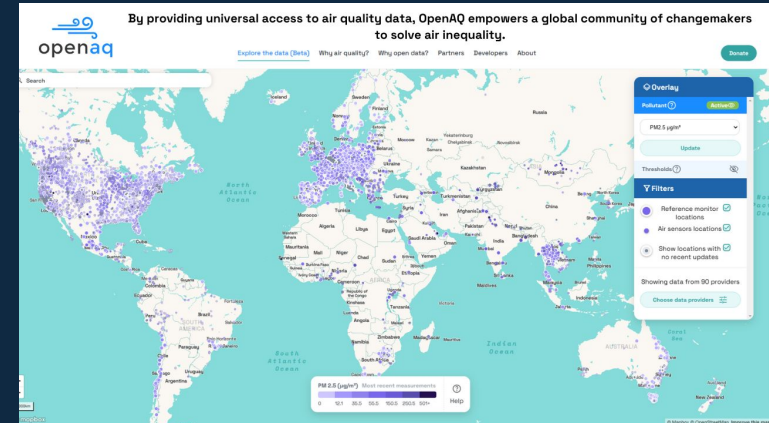


A session where open air quality data champions held conversations about different stakeholders playing their part in open air quality data

## Takeaways:

- Data openness for air quality allows development of sophisticated models for global air quality predictions
- Community members and participatory science are important in expanding AQ data in areas where there's little - e.g. Africa
- With OpenAQ's shared tools, the cost and time intensive nature of data aggregation is taken out of the hands of clean air researchers & advocates

**Contact:** Colleen Rosales, [colleen@openaq.org](mailto:colleen@openaq.org)  
[@OpenAQ](https://OpenAQ.org) // [explore.openaq.org](https://explore.openaq.org) // ESIP AQ Cluster



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**Tags:** air quality, open data,  
universal access, community, data  
aggregation, data harmonization

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# Harnessing Air Quality Data to Protect Health and Save Lives



Developing use cases and resources for actionable information.

## Takeaways:

- Enormous amounts of AQ data are available and the rate and scope of generation continue to rapidly increase
- Communities need open, actionable, "real" data and information, including reliable guidance about what they can do
- Communities, especially vulnerable and underserved, must be active participants in co-creating solutions and progress

**Contact:** Steve Young, Co-Chair, [Frazmo@gmail.com](mailto:Frazmo@gmail.com); AQ Cluster

Calls: 4<sup>th</sup> Thursdays, see:

<https://www.esipfed.org/get-involved/community-calendar>

**AIR QUALITY**  
**Open to Action**



**Tags:** AirQuality, AirPollution, EnvironmentalJustice

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# IT&I Rants and Raves: Seeding 2023 IT&I topics



Focus on interoperability basics while building a record for future reference.

## Takeaways:

- We should all know more about those fundamentals.
- Many diverse use cases should be satisfied few shared components.
- We need to capture enthusiasm and grow a shared knowledge base.

**Contact:** David Blodgett, [dblodgett@usgs.gov](mailto:dblodgett@usgs.gov)

foundational aspects of interoperability

explore how a given solution fits into multiple domain's information systems

discuss the tension between diversity use cases is accommodated by an IT solution targeted at interoperability

**Tags:** interoperability, knowledge sharing, community

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# Utilizing GPUs in Machine Learning for Earth Sciences



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The session explores GPU computing facilities, enabling earth sciences application to run on GPU, and discussed a potential hackathorn.

## Takeaways:

- Earth science AI/ML application needs intensive computing
- GPU provides potential solutions such as the NVIDIA Earth-2 and NASA NCCS DGX
- Open source and guide are available to help migrate earth science applications to run on GPU nodes

**Contact:** Daniel Q. Duffy, NASA Goddard CISTO, [daniel.q.duffy@nasa.gov](mailto:daniel.q.duffy@nasa.gov); Phil Yang, GMU, [cyang3@gmu.edu](mailto:cyang3@gmu.edu)

## NVIDIA Earth-2 Announcement - GTC Nov 2021

NVIDIA to Build Earth-2 Supercomputer to See Our Future

November 12, 2021 by JENGEN HUANG <https://blogs.nvidia.com/blog/2021/11/12/earth-2-supercomputer/>

## Computational and Information Sciences and Technology Office (CISTO – Code 606)

Vision: Accelerating science through high-end information technology solutions; from bits on the wire through understanding.

GPUs Role in Earth Science

Computing Testbed for Optimizing Earth Science Applications to Adopt GPU

**Tags:** AI/ML, GPU, Earth Science, Open Source

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# Extending science-on-schema.org for international compatibility



*Identify and prioritize community needs for expressing scientific metadata*

## Takeaways:

- Interest exists for extensions
- Areas include:
  - (Monitoring) Sites,
  - Projects,
  - Sensors,
  - Samples,
  - DCAT, and
  - Related Identifiers
- A dozen+ people indicated interest in contributing

**Contact:** Adam Shepherd, **Slack:** #sci-schemaorg

## Science On Schema.Org (SOSO) Guidance Documents

This repository provides guidance for repository operators and others to follow consistent conventions to provide schema.org markup in Dataset landing pages to improve data discovery through search engines. The main guides help describe Datasets and Data Repositories.

Name		Guideline	Examples	Issues
<a href="#">Dataset</a>	guidelines for schema.org for a scientific Dataset		<code>&lt;/&gt;</code>	
<a href="#">Data Repository</a>	guidelines for schema.org for a research data repository		<code>&lt;/&gt;</code>	

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science-on-schema.org

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# Creating Best Practice Extensions for the Biological Data Standards Primer



Working session to develop template and material to augment the BDS primer.

## Takeaways:

- Provide context for reference links
- For brevity, clarify the audience, but balance with more detail in some cases.
- Have a back-up plan in case your session attendance is lower than anticipated.

**Tags:** Biological, Best Practices, Education

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**Contact:** Steve Formel, [sformel@usgs.gov](mailto:sformel@usgs.gov), [#bio-data](https://twitter.com/bio-data)

HELP YOURSELF IN THE FUTURE - USE ACCEPTED STANDARDS WHETHER YOU SHARE YOUR DATA OR NOT!

## BIOLOGICAL OBSERVATION DATA STANDARDIZATION

A primer for data managers

USING STANDARDS FOR YOUR BIOLOGICAL OBSERVATION DATA MEANS WE CAN UNDERSTAND PATTERNS AT SCALES GREATER THAN ONE PROJECT, RESEARCH GROUP, OR ORGANIZATION

Do you want to...	Then use...
PROVIDE CONTEXT AND UNDERSTANDABILITY TO YOUR DATA? <small>Ensures your data are reusable so that yourself and others understand how the data were</small>	METADATA STANDARDS: <u>EML</u> , <u>ISO-19115</u> , <u>FGDC-CSDGM</u> , <u>MIXS</u>  Example repositories accepting these standards: <u>EDI</u> , <u>DataONE</u> member nodes,



# Introducing Wildfire Cluster

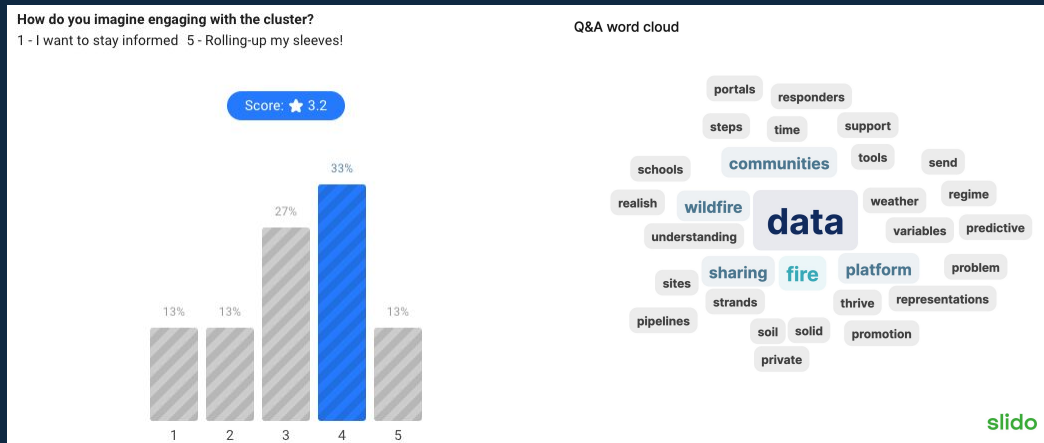
Collecting community inputs on topics the ESIP community can collaborate to advance the use of Earth science information for proactive wildfire management.

## Takeaways:

- Broad and diverse community interests in wildfire application
- Highlight the need of accessible and user-friendly data and information for wildfire management
- Need close collaborations across sectors and engagement with communities

**Tags:** wildfire; community; collaboration

**Contact:** #wildfire, next telecon at March 8, 4pm ET  
**Dave Jones** ([dave@stormcenter.com](mailto:dave@stormcenter.com)), **Douglas Rao** ([douglas.rao@noaa.gov](mailto:douglas.rao@noaa.gov))



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# Post-Wildfire Trusted Data & Future of DLC



Finished up 2.5 year roadmap for identifying trusted datasets for post wildfire threats and risk & Discussed Future of DLC

## Takeaways:

- Imagine the Disaster Response landscape has been forever changed by Earth Science Data Capabilities...
- What Geospatial tools, data sets and/or stakeholder capabilities do you imagine have been created?
- Come to next meeting to hear the results

**Tags:** #trusteddata, #disasters, #datadrivendecisions, #non-technicaldecisionmakers

**Contact:** Dave Jones ([dave@stormcenter.com](mailto:dave@stormcenter.com)), Maggi Glasscoe ([mtglasscoe@gmail.com](mailto:mtglasscoe@gmail.com)) , #disasters (Slack)



## ESIP Disaster Lifecycle Cluster (DLC)



**Cross-Domain Collaboratory**  
**Post Wildfire Trusted Data & Future of the DLC**

Date: Friday January 27, 2023 11am - 12:30pm EST  
Virtual Meeting

Karen Moe (NASA Ret.), Dave Jones (CEO, StormCenter Communications)  
Co-chairs: ESIP Disaster Lifecycle Cluster



ESIP Disaster Lifecycle Cluster Winter Meeting, Friday, January 27 • 1100am - 12:30pm ET Based on template from: Charley Haley ([charley@back-loop.com](mailto:charley@back-loop.com)) & Fisher Qua ([fisher@back-loop.com](mailto:fisher@back-loop.com))

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# On the Horizon: Evolving Standards at NASA's ESCO

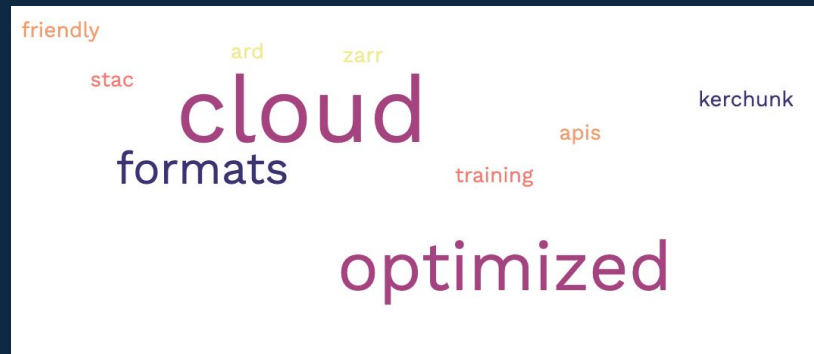
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Presenting trends, initiatives and updates in Earth science data formats, services and optimizations for cloud computing, ARD, and discovery and interoperability

## Takeaways:

- Containers for cloud optimizations is an evolving area with many choices, options and approaches. The many roads.....
- Containers of choice and how to optimize them often depend on the data type and size
- Heterogeneous data location and type require harmonized discovery services

Future topics (and for ESCO too!)



**Tags:** #standards, , #cloud-optimized, #HDF, #ARD, #Zarr, #STAC, #kerchunk, #point-cloud, #ESCO, #API

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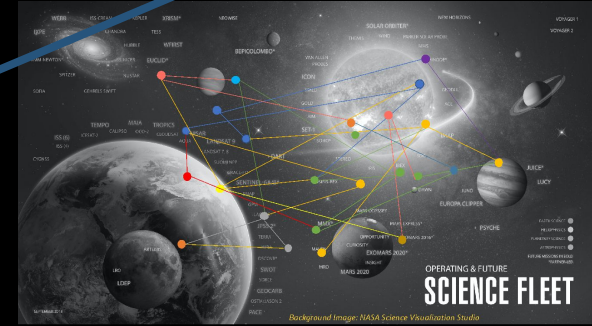


(2020) Visioning an Operational-Grade  
Digital Knowledge Commons For Earth  
and Environmental Science

(2021) Linking Knowledge in the Earth and  
Space Sciences: Knowledge Graphs/Networks  
connecting data and individuals

(2022) Towards an Earth and  
Space Sciences Knowledge  
Commons

**(2023) Earth and Space Science  
Knowledge Commons  
From vision to implementation**



Pier Luigi Buttigieg (Helmholtz Metadata Collaboration)  
Caroline Coward (NASA Jet Propulsion Laboratory)  
Gary Berg Cross (Ontolog)  
Ruth Duerr (Ronin)  
Ryan McGranaghan (NASA Jet Propulsion Laboratory)  
Brandon Whitehead (Manaaki Whenua -- Landcare Research)  
Lesley Wyborn (ARDC)  
Ellie Young (Common Action)

**Takeaways**

1. Articulated and created a shared understanding of the dimensions of a knowledge commons
2. Need to develop the 'social infrastructure' for communities to contribute to and use knowledge infrastructure, requiring connection to science communities. We identified several use cases to work on *now*
3. We must get more concrete about the "infrastructure" for building a knowledge commons

**Some powerful emergent questions:** What do we need to learn from ESIIP researchers and how can we discover their needs? How do we help ESIIP researchers make creating knowledge commons a part of their research workflow? What are the literacies needed to be a knowledge

Get involved!

# Community Fellow Highlights

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Image Credit: USGS - Dec 2022 Mauna Loa eruption

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# IT&I Rants and Raves Session

Session with 'lightning' presentations highlighting complaints/challenges (rants) and offered praise/support (raves) in IT

## Takeaways:

- Wide variety of presentations with a good mix of rants and raves; spawned a lot of discussion!
- Discussion after presentations included challenges in convincing and/or the long time-frame gov. orgs. can have in adopting new methods/tech (once implemented it's already obsolete issues)
- Data Stewardship Committee very interested in gov org agility and learning more about how 'agile' orgs make it happen

**Contact:** Daniel Segessenman, [dsegesse@gmu.edu](mailto:dsegesse@gmu.edu), Data Stewardship Committee (ESIP Community Fellow)

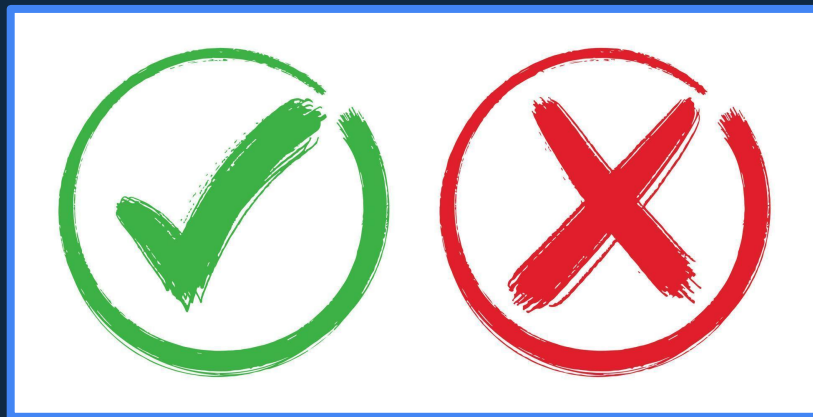


Image Credit: Vecteezy

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**Tags:** IT, Rants, Raves, Discussion, Interoperability



# Coordinating Environmental Justice Initiatives Across Organizations + Exploring ESIP's International Connections

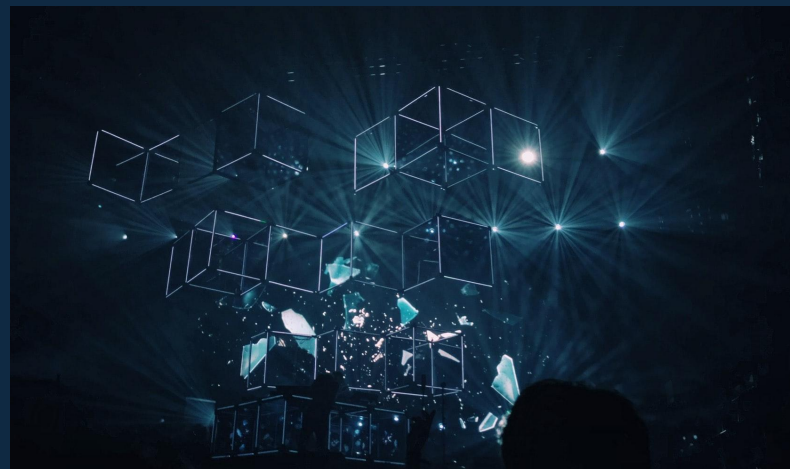


Explored existing collaborations and potential for ESIP's work to go beyond its borders

## Takeaways:

- Hard conversations but panelists & participants engaged and open to learning
- Examine how to **work with** new communities to facilitate an equal exchange
- Both very relevant to Community Resilience Cluster to test and model [possible ways forward](#)

**Contact:** Sruti Modekurty, [sruti.modekurty@gmail.com](mailto:sruti.modekurty@gmail.com),  
Community Resilience Cluster (ESIP Community Fellow)



**Tags:** environmental justice, international, collaboration

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# Closing Remarks

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25 YEARS OF  
COLLABORATION  
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# ESIP ENGAGEMENT OPPORTUNITIES



## Discover

Find people and tools to make your data findable, accessible, interoperable, and reusable (FAIR).



## Collaborate

Join-in or create a new collaboration area around your Earth science data challenges.



## Innovate

Use small-grant funding to build or expand Earth data technologies.



## Network

Build connections across federal agencies, the private sector, and academia.



# Consider serving in a leadership position!

## Why serve?

- Contribute to decision making within ESIP
- Share your skills/talents with the community (incl. mentorship)
- Develop soft skills (esp. early/mid career)

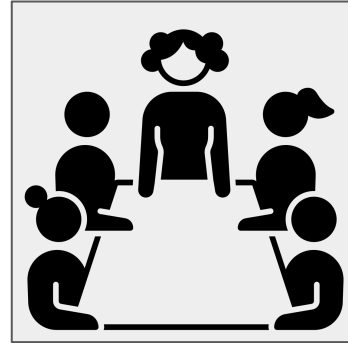
*Volunteer or nominate someone today!*

Want to provide support but don't want to lead?  
**Consider serving on the Nominations Committee!**

Elected members serve 1 year with the opportunity to run for a 2nd year

### Positions:

- President
- Vice President
- Governance Committee Chair
- Finance Cmte. Chair
- Partnership Cmte. Chair
- Data Stewardship Cmte. Chair
- Education Cmte. Chair
- Information Technology & Interoperability Cmte. Chair
- Semantic Technologies Cmte. Chair
- At Large Board Member (2 positions)



### Want to learn more?

Positions descriptions: <https://bit.ly/3SugxeT>

Contact: [sarah.ramdeen@gmail.com](mailto:sarah.ramdeen@gmail.com)



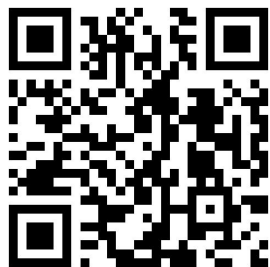
**Tags:** Leadership, Service



**MAKING DATA MATTER**

esipfed.org | #EarthScienceData

Thank you for attending!



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## ESIP Meetings

[ESIPFED.ORG/MEETINGS](https://esipfed.org/meetings)

## ESIP Collaboration Areas

[ESIPFED.ORG/COLLABORATE](https://esipfed.org/collaborate)

## ESIP Lab

[ESIPFED.ORG/LAB](https://esipfed.org/lab)

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