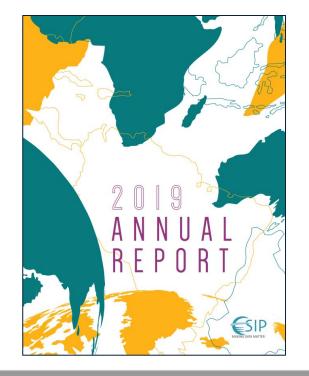


STATE **ESIP**



2020 WINTER MEETING

January 7-9, 2020 Bethesda North Marriott, Bethesda, MD







Citation: Earth Science Information Partners (2020): Earth Science Information Partners (ESIP) Annual Report 2019. ESIP.

Online Resource. https://doi.org/10.6084/m9.figshare. 11499387

2019 ESIP Elected Leadership

Governance

Denise

Hills



Karen Moe



Mark Parsons



Lesley Wyborn



President Karl Benedict

Partnership

Hoebelheinrich

Nancy



Vice President Mike Daniels





Finance Rebecca Koskela



Nominations Danie Kinkade



Education **Becky Reid**





Semantic Tech Lewis McGibbney

New Partners in FY 2019

















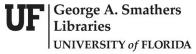




















ONTOLOGPSMW

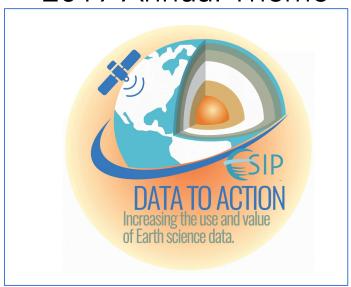


ESIP Shared Agenda

2016-2020 Strategic Plan

- Increase the use and value of Earth science data and information.
- Strengthen the ties between observations and user communities
- Promote techniques to articulate and measure the socioeconomic value and benefit of Earth science data, information, and applications.
- Position ESIP to play a major role in Earth science issues

2019 Annual Theme



Values

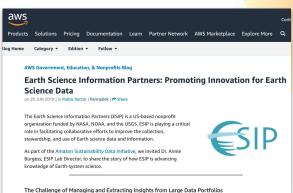
Agile | Collaborative | Collegial | Community-driven | Innovative Neutral | Open | Participatory | Voluntary

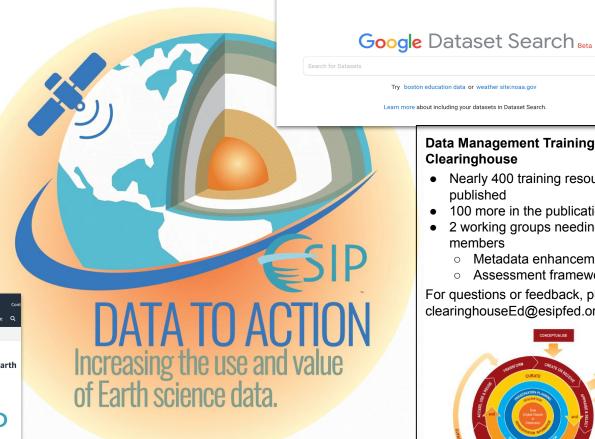
Teacher Workshop











Data Management Training (DMT)

Clearinghouse

- Nearly 400 training resources published
- 100 more in the publication queue
- 2 working groups needing more members
 - Metadata enhancement
 - Assessment frameworks

For questions or feedback, please contact clearinghouseEd@esipfed.org.



2019 Webinar Series



Webinar #1: How NASA, NOAA, USGS Increase the Use and Value of Earth Science Data & Information



Webinar #6: 2019 NOAA EDM Workshop Recap & New Approaches to Dealing with Increasing Volumes of Data for Numerical Weather Prediction



Webinar #3: The 4th National Climate
Assessment: Translating Data to Inform Decisions



Webinar #7: An Extensible Geospatial Data Framework (GeoEDF) for FAIR Science



Webinar #4: Supporting Better Water Management and Planning in a Changing Climate



Webinar #8: Data for our Planet: Increasing the Use and Value of Global Information Infrastructures to Support Resilient Cities, Disaster Risk Reduction and Infectious Diseases

- Theme: Data to Action: Increasing the Use & Value of Earth Science Data & Information
- Eight webinars were presented from March to November.
- The series is available on the ESIP YouTube Channel and the ESIP Figshare Repository.

Collaboration Area Outputs & Connections

Assembly Endorsed Outputs

- > Data Citation Guidelines for Earth Science Data Version 2 (July)
- Software and Services Citation Guidelines and Examples (January)

Promoting Cross Collaboration Area Connections



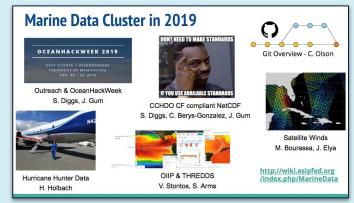
Collaboration Areas (e.g., **Information Quality** and **Envirosensing**) grew international connections.



Young Clusters Off & Running in 2019

Community Resilience
Machine Learning
Marine Data
Schema.org
Semantic Harmonization
Research Object Citation





Positioning ESIP Experiment

- ESIP Staff participated in SGCI Bootcamp and created a pitch deck
- New 1-pager describing ESIP, Annual Report for FY18 and FY19
- Worked with a PR consultant from July-December with several media pieces

Result: PR not exposure that ESIP needs, looking for more organic brand building







ESIP Introduces New Data and Software Citation Guidelines Aimed at Making Earth Science Research FAIR

GlobeNewswire · Last month



ESIP Develops Earth Science Data Operational Readiness Levels to Empower Disaster Responders

GlobeNewswire ⋅ Nov 3 Д < :



ESIP 2019 Summer Meeting Attracts Top Science and Technology Leaders to Collaborate on How to Put Earth Science Data to Work

GlobeNewswire · Jul 31





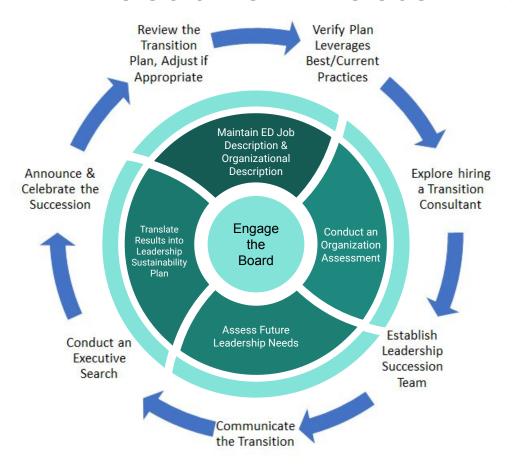
Executive Director Transition

We will be hiring a new Executive Director in 2020 - target start: September.

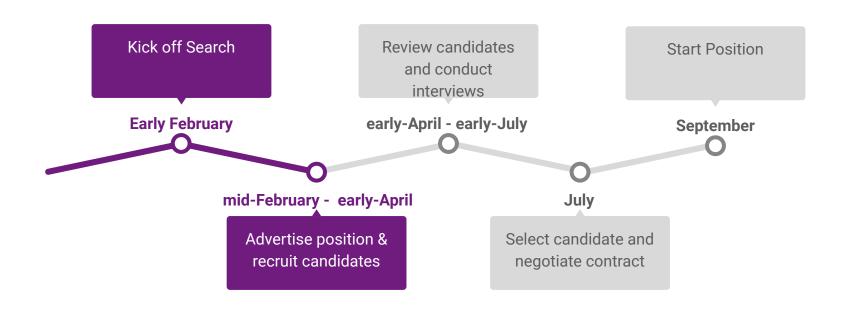
- We have been preparing for the inevitability of an ED transition since our previous transition in 2014
 - Developing a "planned transition" plan informed by best practices
 - Identifying key roles and tasks
 - Increasing documentation of roles and activities for both ESIP Staff and volunteer leadership
 - Building Board capacity

The Board is finalizing the search strategy and plans on kicking off the process in early February. We will share updates as we hit key milestones and points for broader community engagement in the process.

Executive Director Transition



Executive Director Transition





Staff Report



Erin Robinson
Executive Director



Annie Burgess Lab Director



Megan Carter Community Director



Dan Keyes Operations Coordinator



Samantha Sands Meetings Director



Documentation & Systems

- TM of logo and tagline
- Community Guidebook drafted by Megan Carter
- How it gets done internal docs
- On/Offboarding for volunteer leaders
- On/Offboarding for staff

ESIP's budget is ~\$1.7 million

- Received federal negotiated indirect rate (FY18 - 16.91%)
- Successful completion of FY19 Audit
- FY20 amended budget approved at January 2020 Board Meeting
- NOAA renewed ESIP funding 2020-2022;
 We will be submitting renewals to USGS and NASA this spring

ESIP's Strategic Partnership



Goals of ESIP's Organizational Evaluation

- 1) Identify ESIP's areas of success
- 2) Identify challenges & opportunities for improvement
- 3) Identify new strategic directions
- 4) Get a pulse on how the ESIP community perceives and experiences ESIP





Process

Timeline: April-June 2019

Data:

- (Primary) Interviews with 25 individuals during May-June 2019
- Interviews with 17 individuals during June 2018-April 2019 for the Making Data Matter ESIP project
- Comments from session participants (~15) at ESIP's 2019 winter meeting

Analysis: Data were analyzed qualitatively

Note: Evaluation designed to build off of the 2016 evaluation





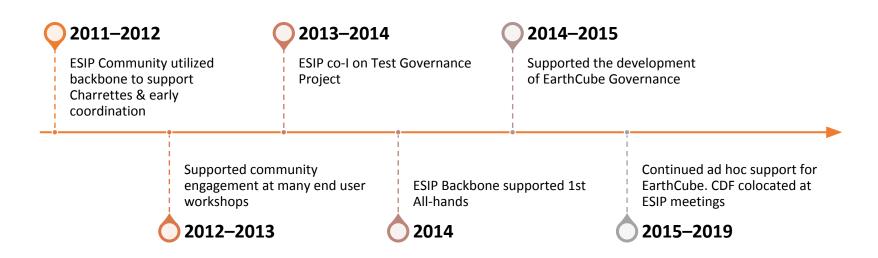
Strategic opportunities for ESIP (con't)

- International opportunities (n=11 caution=4)
- Interoperability & integration of data (n=9)
- Facilitate use of the cloud for Earth Science data (n=7)
- Development of data ethics, data misuse, and trusted data (n=6)
- Better data management by providing training and skills development (n=6)
- Application of data for decision-making (n=5)
- Address the challenge of increasing data volume (n=5)
- Address AI & machine learning (n=3)
- Align research data management with national cyberinfrastructure (n=2)
- Address geographical information systems (n=2)
- Take on the role as a broker between communities (n=2)





ESIP & EarthCube



11/15/19

ECO - Data Community and Training

Lead: Erin Robinson

Goals

- Activities to engage and strengthen the community.
- Impart knowledge of EC tools, best practices, methods, outputs.

Supported by:

Megan Carter, Samantha Sands, Melissa Cragin

Specific Activity Examples

- Data Fairs
- Data Help Desk at science meetings
- Data Challenges
- Training on demand, workshops
 - (GO) FAIR awareness, specific topics

Planned Collaborations

























Provides researchers with opportunities to engage with informatics experts familiar with their scientific domain and learn about skills and techniques that help further research and make data and software open and FAIR.

Data Help Desk: Ask Questions, View Demos & Workshops, Town Halls, and more.

Learn more: https://copdess.org/data-fairs/



The Data FAIR at AGU is a program of ESIP, EarthCube, and AGU, as well as their partners. Representatives from 30+ organizations participated in Data Help Desks in 2019.

ESIP LAB MISSION & VISION



To support the development of innovative Earth science technologies through funding, strategic outreach, and community input.



To be a multiplier and advocate for individuals and ideas that advance our knowledge of Earth-system science.

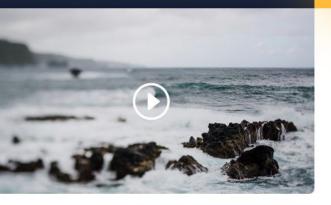
ESIPFED.ORG/LAB



Supporting the Earth science community in building innovative, applied technologies through funding and community input.

FUNDING OPPORTUNITIES

USER STORIES



125,000

ANNUAL SMALL GRANT DOLLARS TO THE COMMUNITY

120

ESIP PARTNER ORGANIZATIONS

SMALL GRANTS AND GOOGLE SUMMER OF CODE

GOOGLE SUMMER OF CODE

- OrcaCNN: Detecting and Classifying Killer Whales from Acoustic Data
- A Next Generation GUI for Visualizing Big Gridded Data in Python

SPRING 2019 SMALL GRANTS

Community Open Data and Experimental Mesonet (CODE-M)

A cloud-based community tool for ambient seismic noise analysis and monitoring with Julia Scalable Serverless Workflows for Processing Cubesat Imagery to Identify Flowering Hotspots in Sub Alpine Meadows Subaqueous Landslide Morphometrics Database and Website for Global Outreach and Data Collection

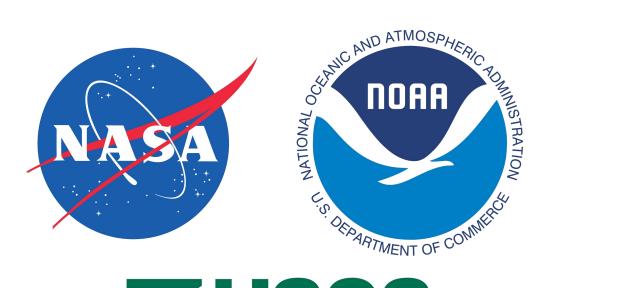
Supporting Partner Update





ESIP is exploring being written into other proposals as part of our business model. SDSC is 1st partner to do that.

Sponsor Presentations





Community Partner Presentations



/ ASSOCIATION OF RESEARCH / LIBRARIES

2020:Looking ahead

Theme:

Putting Data to Work

Wrapping up 2015-2020 Strategic Plan & starting to vision for 2020-2025



2020 Election Results

- Tamara Ledley, President
- Sudhir Shrestha, Vice President
- Denise Hills, Governance
- Rebecca Koskela, Finance
- Amber Budden, Data Stewardship
- Mike Daniels, Partnership
- Becky Reid, Education
- Dave Blodgett, IT&I
- Lewis McGibbney, Semantic Tech
- Nancy Hoebelheinrich- Board, At-Large



Winter 2021



Post-Meeting feedback in 2017 suggested we leave out of DC during Inauguration.

Options:

- Stay in DC
- Pasadena
- Santa Barbara

Engagement Opportunities



DISCOVER

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



COLLABORATE

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



INNOVATE

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



NETWORK

Extend your network. Build connections across federal agencies, the private setor, and academia.

JOIN

Encourage your organization to join ESIP's 110+ member organizations. Unlock membership benefits: start new collaborations, apply for funding, and more.

What else can YOU do?

- Tell others about ESIP
- Volunteer for Leadership
- Stay vocal by sharing your expertise and questions on telecons, Slack, mailing lists, etc.

https://www.esipfed.org/onepager



QUESTIONS?

Karl Benedict, president@esipfed.org Erin Robinson, erinrobinson@esipfed.org Annie Burgess, annieburgess@esipfed.org Megan Carter, megancarter@esipfed.org

