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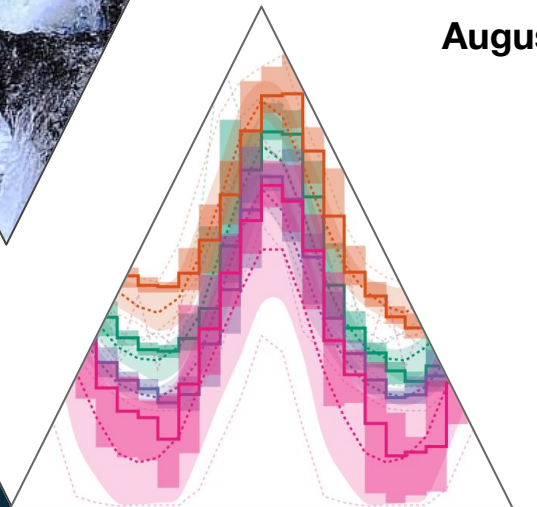

ESIP and NOAA: Together Putting Data to Work

August 17, 2020

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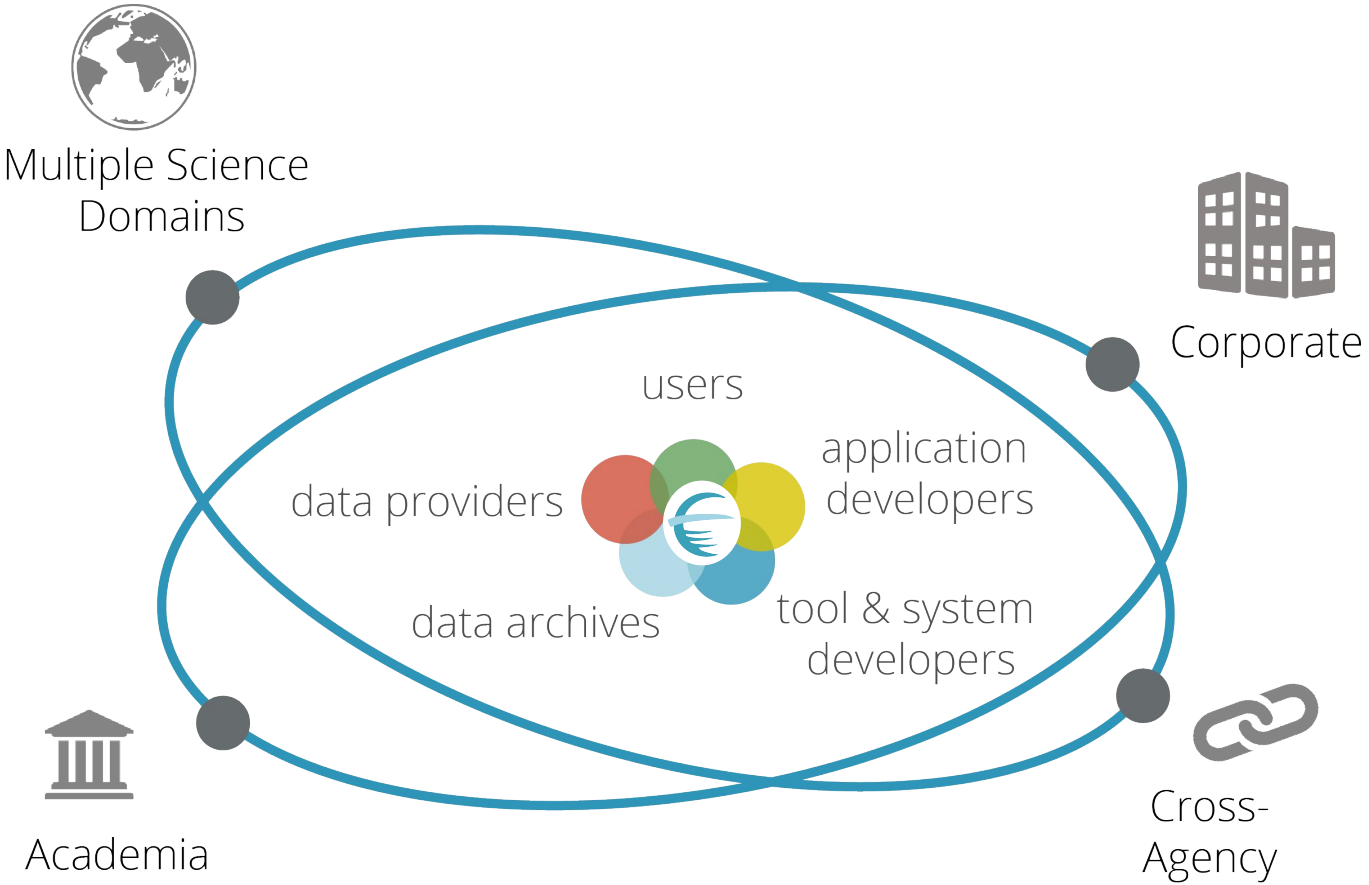

ESIP BACKBONE

Erin Robinson
Outgoing Executive Director

Susan Shingledecker
Incoming Executive Director

Annie Burgess
Lab Director

Megan Carter
Community Director

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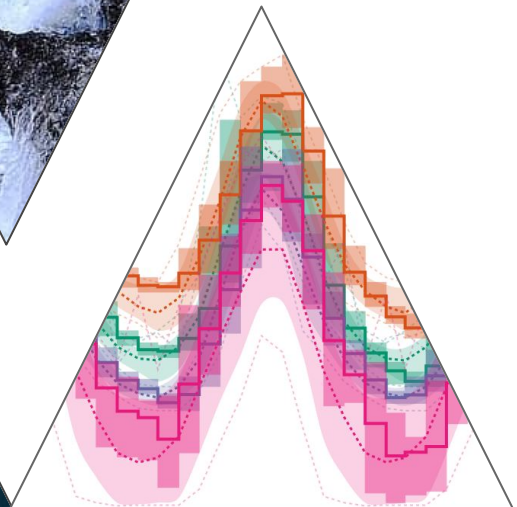


Welcome Susan Shingledecker

Incoming Executive Director

Experience with NOAA

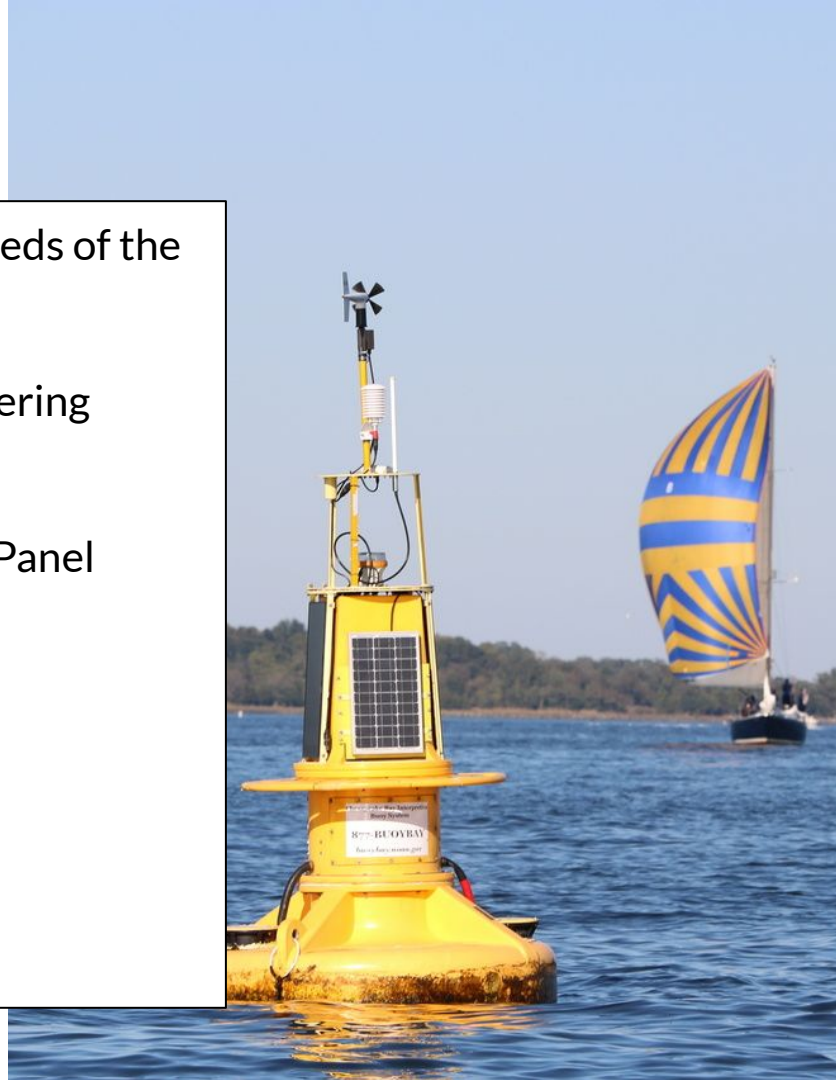
12 years with BoatU.S. and understanding the data needs of the nation's recreational boaters.

Served on the Chesapeake Bay Observing System Steering Committee (CBOS) 2006-2010

Appointed to NOAA's Hydrographic Services Review Panel (HSRP) 2010 -2018

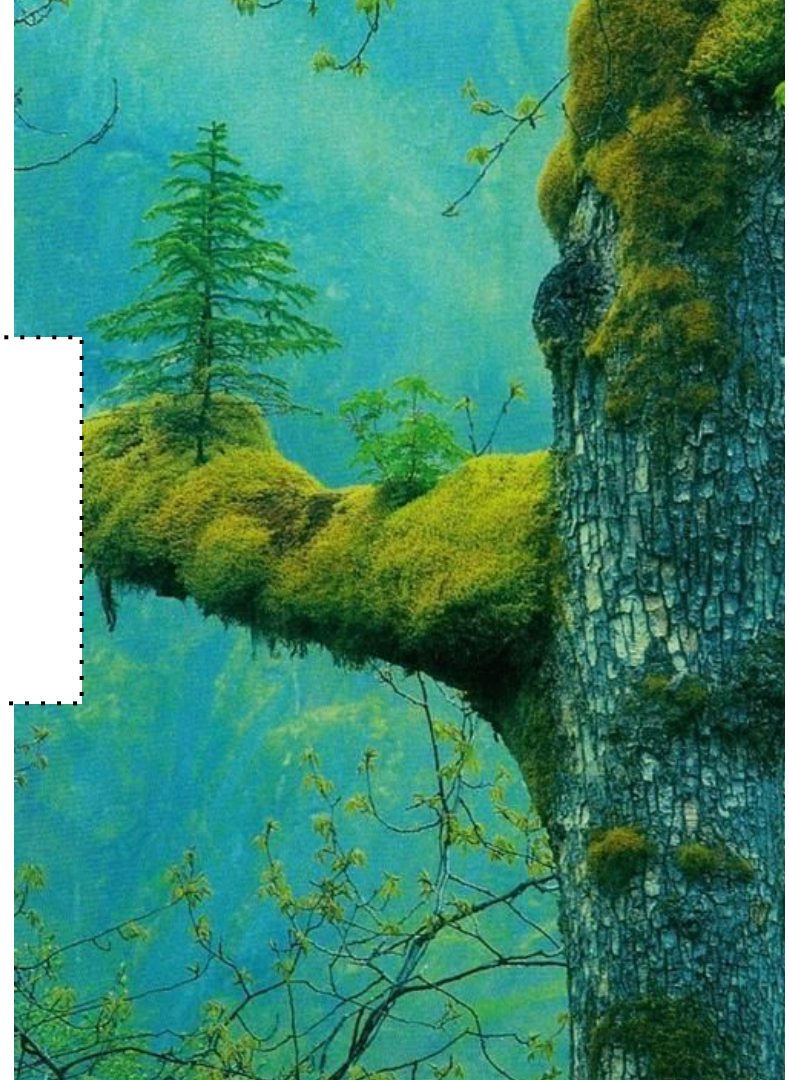
Worked with numerous NOAA line offices including:

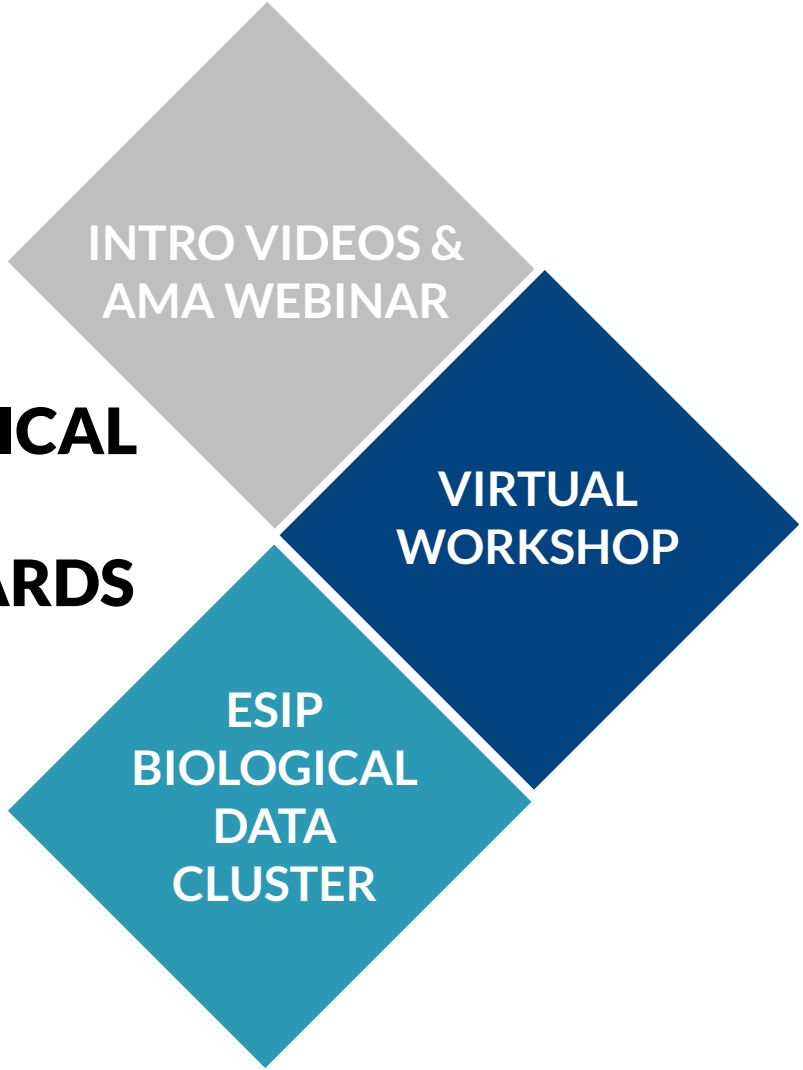
- NOAA Marine & Aviation Operations (OMAO)
- NOAA Marine Fisheries Service (NMFS)
- National Ocean Service (NOS)
- Office of Oceanic and Atmospheric Research (OAR)
- National Weather Service (NWS)



2020 ESIP THEME

Putting Data to Work: Building Public-Private Partnerships to Increase Resilience & Enhance the Socioeconomic Value of Data.





BIOLOGICAL DATA STANDARDS

- **Stage 1: videos + AMA**

  esipfed.org/biostandards-overview

- **Stage 2: virtual workshop**

  https://bit.ly/biostandardssummary

  Collaboration through ESIP meeting with Marine Data Cluster & CF sessions

- **Stage 3: ESIP cluster**

  Monthly meetings as part of an ESIP Biological Data Standards Cluster.

  Subscribe to the cluster list-serv: https://bit.ly/biostandards_subscribe

ESIP IQC/BSC Pre-ESIP Workshop Report Out

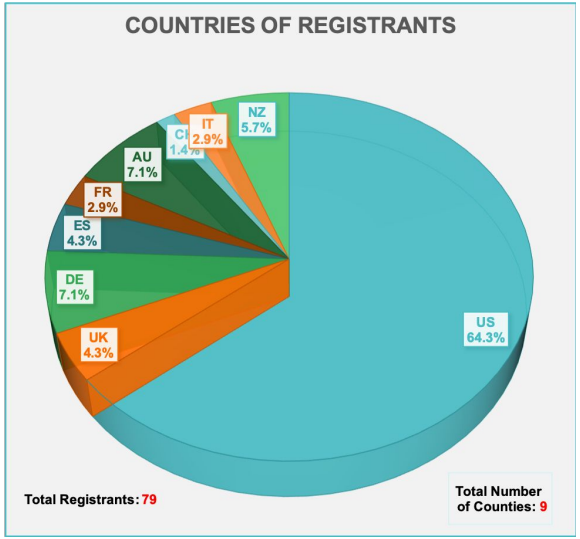
- **ESIP IQC co-organized a virtual pre-ESIP workshop on 7/13/2020**
  - Community guidelines for FAIR dataset quality information,
  - Explore the needs, challenges, and existing approaches by various (global) Earth Science organizations.

- **This SM20 session**
  - Pre-ESIP Workshop and its outcomes,
  - Presentations from workshop participants,
  - Open discussion among the ESIP community, workshop participants and organizing committee members.

- **Takeaways**
  - Community guidelines: i) Beneficial; ii) Iterative process with a feedback loop (funders, data producers, data users, and data managers); iii) Actionable; iv) Consideration of long-term sustainability.

Tags:

Data Quality, Information Quality, FAIR



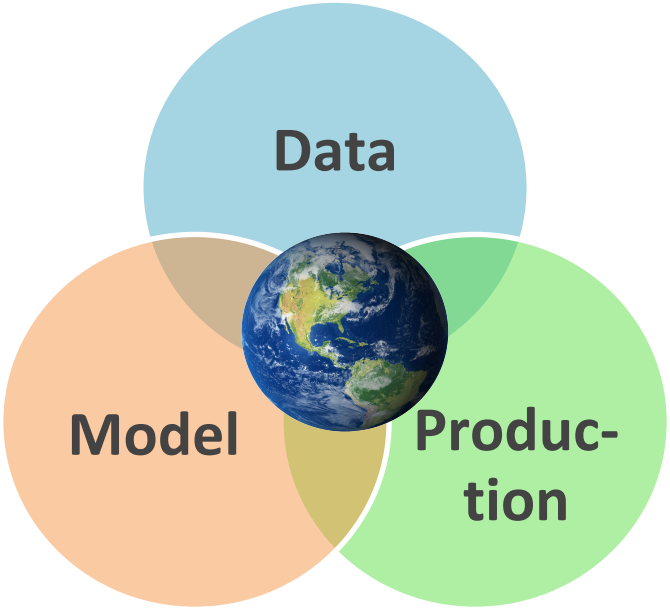
Want to learn more?

Contact: Ge Peng; gpeng@ncsu.edu; other IQC co-chairs: Yaxing Wei, Robert Downs, David Moroni, and Rama Ramapriyan

Join Us: wiki.esipfed.org/Information_Quality

Organizational Strategies, Standards, & Policies for Machine Learning

Engaging with different organizations to discuss how ESIP community can support/promote the adoption of machine learning for all Earth science domains.



Takeaways:

- **There is increasing needs for ML ready data for Earth sciences ;**
- **Maturity level criteria are needed for both data and models;**
- **Lack of (cross-agency) best practices for curating ML ready data to ensure interoperability.**

Tags:
Machine Learning, Strategy, ARD, Best Practices

Tutorials: https://github.com/geo-yrao/esip-ml-tutorials

Want to learn more?
Contact: Yuhan Rao (yuhan.rao@gmail.com)
Join us:
Machine Learning Cluster email list
August telecon (08/21 12pm ET)

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Contact:
susanshingledecker@esipfed.org

Keep up on all things ESIP:
bit.ly/ESIPmondayupdate

ESIP Meetings
ESIPFED.ORG/MEETINGS

ESIP Collaboration Areas
ESIPFED.ORG/COLLABORATE

ESIP Lab
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