

Data Archive and Access Requirements Working Group (DAARWG) Update to the NOAA Science Advisory Board

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Administrative Update

Membership

- 3 new members approved, approval for 2 additional members in process
- 2 renewals
- Status of new co-chairs

Regular meetings

- 3 virtual meetings to date in 2023
- First in-person meeting since before COVID: Sept 6-7, 2023 in Silver Spring, MD

Establishing strong connections

NOAA liaisons and fantastic support



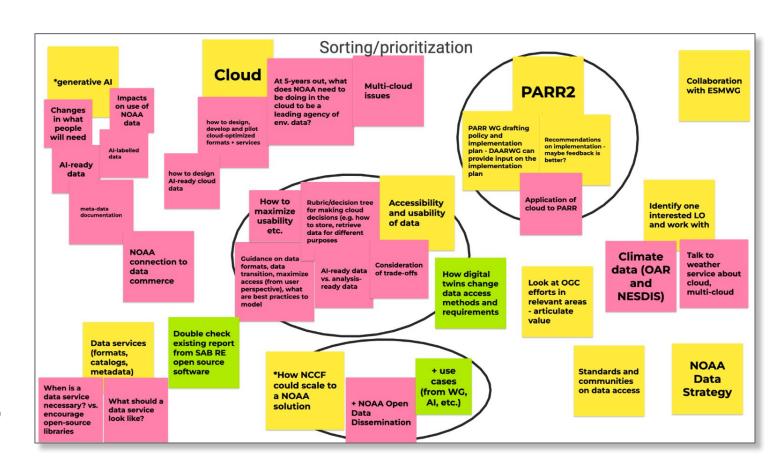
Discussions and Briefings

- NOAA Data 101 provided by Tony Lavoi, NOAA Chief Data Officer (CDO) and the Line Office Assistant Chief Data Officers (ACDOs)
- Introductory presentations and discussions with the NOAA ACDOs covering all NOAA Line Offices
- Introduction to NOAA efforts to implement the 2022 OSTP Nelson Memo
- Briefing from SAB Ecosystem Sciences and Management Working Group (ESMWG), Molly McCammon, ESMWG Chair, and Jon Allan, SAB Liaison
- Update on the NESDIS Common Cloud Framework (NCCF) from Christopher OConnors and Kathryn Shontz
- Generative Al discussion with the NOAA Center for Al, Rob Redmon and Brandon Krumwiede
- NOAA Open Data Dissemination overview, Adrienne Simonson (NODD Director), and NODD team
- Consideration of future topics for the DAARWG



Proposed Topics for DAARWG Focus

- Generative AI topic for crossworking group discussion
- NOAA Data Accessibility and Usability
- Cloud, e.g. NODD and NCCF
- NOAA Implementation of 2022 OSTP Nelson Memo, "PARR2"





Generative AI (gAI) for Cross-Working Group Discussion

So what?

- Trust in NOAA
- Trust in science
- Trust in data
- Operational utility
- Efficiency
- State of the science

So far...

- DAARWG generative Al Discussion with NOAA
- Generative AI panel at July
 2023 SAB Meeting
- NOAA Center for AI
- NOAA AI Strategy and Strategic Action Plan

- Exploring a focused
 DAARWG topic on gAl ready data
- Cross working group efforts on gAI



NOAA Data Accessibility and Usability

So what?

- Technology doesn't necessarily promote better access
- Data equity challenges
- Co-production of knowledge
- Better decision making

So far...

- NOAA Data Strategy and Strategic
 Action Plan
- DAARWG <u>Recommendations</u>
 <u>Concerning the NOAA Data</u>
 <u>Strategy Implementation Plan</u>
- SAB <u>Open Data Open Science</u> <u>Report</u>
- NOAA efforts on Data
 Dissemination and Open Data
 Licensing
- OSTP 2022 Nelson Memo (PARR)

- NOAA Open Data and PARR Implementation
- NODD and NCCF
- Stakeholder engaged access and product development
- Data storefront using AI and natural language processing
- Partnerships with other sectors to ensure scale



Cloud Utilization, e.g. NODD and NCCF

So what?

- Can NCCF scale to NOAA?
- WG use cases against which to apply cloud best practices
- Operational utility of data assets in the cloud
- Maintaining and growing effective cloud programs

So far...

- NOAA briefings on NCCF and NODD to DAARWG
- DAARWG Report on "Preparing for a Cloudy Future"
- DAARWG Recommendations
 <u>Concerning the NOAA Cloud</u>
 Strategic Plan Actions
- DAARWG Report on <u>the NESDIS</u>
 Common Cloud Framework

- DAARWG specific topic on cloud utilization and best practices for NOAA
- Cross WG engagement on Cloud utilization, best practices, and areas of opportunity
- NOAA response to
 DAARWG NCCF report



OSTP 2022 Nelson Memo: Public Access to Research Results (PARR 2.0)

So what?

- Data citation and improving access
- Critical implementation and rollout of PIDs and DOIs
- Meaningful impact metrics through PIDs
- Data access through repositories and archives

So far...

- 2013 OSTP Holdren Memo
- 2015 NOAA PARR Plan
- 2022 OSTP Nelson Memo
- SAB Open Data Open
 Science Report
- NOAA PARR2 Working Group

- DAARWG continued engagement with NOAA
 PARR Working Group, and
- DAARWG recommendations on PARR Implementation



Next Steps

Substantive

- Series of shorter virtual meetings through the new year
 - Briefings focused on key topics identified as part of the brainstorming session
 - Discussions lead-in to next in-person meeting possibly late winter/early spring 2024
- Identify what DAARWG might bring to the attention of the SAB
- Follow-up w/ESMWG and other SAB Working Groups on collaborative topics

Recruit DAARWG Co-chairs

Current plan: recruit a co-chair from existing membership and one as a new member