



# DAARWG Update

A Presentation to the  
NOAA Science Advisory Board  
November 19, 2013

Eoin Howlett

On behalf of

W. Christopher Lenhardt  
Domain Scientist, Environmental Data  
Science and Systems, RENCi

DAARWG Chair



# Purpose

- Provide Background and Updates
- Review Proposed New Member(s)
- Renewal for Existing Members
- Discuss GOES-R Level 0 Data



# DAARWG Terms of Reference



- Provide advice on
  - What to archive (data, information, models)
  - How to archive (policies, procedures, technologies)
  - State of the art and best practices
  - Keep an eye on future trends so as not to be surprised



# Current and Future Activities

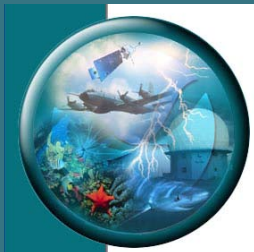


## Current (from recent meetings)

- Review of EDMC Activities and Plans
- Discussion: NOAA Environmental Data Management Framework
- Data Management Dashboard and Metadata Rubric
- Drilling Down into CLASS
- Data Citation PD
- Trusted Digital Repositories

## Future Activities

- Discussion of
  - Agency Comprehensive Data Inventory
  - NOAA’s “What to Archive” Procedural Directive”
  - Data Management Planning Procedural Directive
  - NOAA’s plans for Big Earth Data Initiative
  - Satellite Data Archives Requirements Data Management Plan



# Update



- Virtual meeting in May
- Shut-down affected plans for November meeting
- Follow-up telecon on 7 November
- Planning underway for a February 2014 meeting



# Issues



- Maintaining relevant expertise on DAARWG, along with maintaining full strength
- Review the DAARWG discussion and request vis-à-vis GOES-R Level 0 data retention



# DAARWG Membership Overview



## SAB DAARWG Membership Roster

This page provides contact information for the current members of the DAARWG.

<b>DAARWG Role</b>	<b>Member Name</b>	<b>Organization/Affiliation</b>	<b>Email address</b>	<b>Term Ends</b>
Chair	Christopher Lenhardt	Renaissance Computing Inst	<a href="mailto:clenhardt@renci.org">clenhardt@renci.org</a>	Dec 2013
Member	Beth Plale	Indiana University	<a href="mailto:plale@cs.indiana.edu">plale@cs.indiana.edu</a>	Dec 2013
Member	Daphne Fautin	University of Kansas	<a href="mailto:fautin@ku.edu">fautin@ku.edu</a>	Dec 2013
Member	Eoin Howlett	RPS ASA	<a href="mailto:ehowlett@asascience.com">ehowlett@asascience.com</a>	Jun 2015
Member	Ernie Hildner	Emeritus NOAA (retired)	<a href="mailto:hildnerse@comcast.net">hildnerse@comcast.net</a>	Dec 2015
Member	Francis Zwiers	University of Victoria	<a href="mailto:fwzwiers@uvic.ca">fwzwiers@uvic.ca</a>	Jun 2015
Member	Irene Qualters	Natl Science Foundation	<a href="mailto:iqualter@nsf.gov">iqualter@nsf.gov</a>	Jun 2015
Member	John Boreman	NC State University	<a href="mailto:john.boreman@ncsu.edu">john.boreman@ncsu.edu</a>	Dec 2013
Member	Krish Narasimhan	n/a	<a href="mailto:krish.narasimhan@outlook.com">krish.narasimhan@outlook.com</a>	Dec 2013
Member	Peter Fox	Rensselaer Polytechnic Inst	<a href="mailto:pfox@cs.rpi.edu">pfox@cs.rpi.edu</a>	Dec 2015
Member	Stefan Falke	Northrop Grumman Corp	<a href="mailto:stefan.falke@ngc.com">stefan.falke@ngc.com</a>	Dec 2015
Member	Steve Kempler	NASA, GSFC	<a href="mailto:steven.j.kempler@nasa.gov">steven.j.kempler@nasa.gov</a>	Jun 2015



# DAARWG Members Up for Renewal



Chris Lenhardt

Domain Scientist, Environmental Data Science & Systems

RENCI

[clenhardt@renci.org](mailto:clenhardt@renci.org)

Krish Narasimhan

[krish.narasimhan@outlook.com](mailto:krish.narasimhan@outlook.com)

Beth Plale

Director, Data To Insight Center of Pervasive Technology Institute

Associate Professor of Computer Science

School of Informatics and Computing

Indiana University

[plale@indiana.edu](mailto:plale@indiana.edu)





# Desired Outcome



- Decisional
  - Request approval to renew currently eligible DAARWG members for second term
  - One, possibly two members, rotating off DAARWG, we would welcome feedback on suggested criteria to take into consideration as we look to recruit new members.



# Chelle L. Gentemann, Ph.D.



- Senior Principal Scientist at Remote Sensing Systems, a California corporation in Santa Rosa, California
- 2013 American Geophysical Union Charles S. Falkenberg Award recipient
- Meteorology and Physical Oceanography

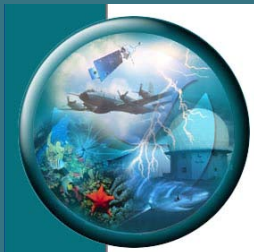




# Karen Stocks, Ph.D.



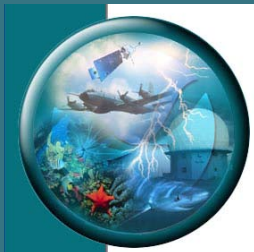
- Director, Geological Data Center, Scripps Institution of Oceanography
- Director of Information Technology, Science Support Office (SSO) of the International Ocean Discovery Program
- Biological oceanography



# Desired Outcome



- Decisional
  - Request SAB approval to add both Dr. Gentemann and Dr. Stocks as new DAARWG members with terms starting January 2014.



# GOES-R Level 0 Data Retention



- DAARWG received a briefing on GOES-R Level 0 data retention plans at May 2013 meeting
- DAARWG had a lengthy discussion about whether or not Level 0 data should be kept longer than current two-year retention cycle
- DAARWG understands prior practice, planning, and budgetary constraints
- DAARWG has some unease with the notion of discarding the raw data and would like to have an opportunity to explore further the rationale for keeping the data (or not), potential alternative technological solutions, and the potential trade-offs among these options



# NOAA Coordination & Views



- DAARWG initial briefing on topic from Charlie Baker, NESDIS DAA, and Steve Thibault, NESDIS SE
- NOAA position clear that reconsidering two-year retention limit is problematic due to prior practice, budget and system planning constraints.



# Desired Outcome



- **RECOMMENDATION**

- DAARWG requests that the Science Advisory Board consider a recommendation to study the issue further. More specifically, the DAARWG would at the direction of the SAB convene a small sub-committee, or 'tiger team', to address this topic. The goals would be to facilitate a concise review of the arguments for and against retention of the L0 data past the two-year window, to look at other Earth science agency approaches to archiving L0 data, and to survey potential alternative technological approaches if warranted. The tiger team would be charged with generating a short report of the findings with recommendations for consideration by SAB within 6 – 9 months.