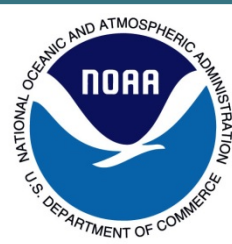




Climate Working Group SAB April 2019 Meeting



Working Group Overview

Chair/Co-Chairs: Leung and Knight
NOAA SAB liaison(s): Kalnay and Joseph

Membership (vacancies, expertise, timing of approval) :
Zhang, Murtugudde, Mote, Roemmich, Dupigny-Giroux (terms expire in March, 2019) – all but Mote have agreed to extend their term for one year; Fleming, Fu, Leung, Knight (terms were renewed in 2018), Ravishankara, Bretherton, Dow, Russell (terms can be renewed in Fall 2019).

Scope and Focus of Current Efforts

On Oct 30, 2018, the CWG approved the review of the Climate and Global Change Postdoctoral Fellowship program with UCAR. Two members, Russell and Leung were part of the review team. Recommendations were sent to the SAB.

Four sub-groups continue to work with NOAA counterparts to firm up recommendations in a white paper to SAB. The Arctic sub-group and TPOS 2020 are looking to quantify specific actions for NOAA

Activities since November 2018 SAB meeting

Annual virtual meeting held on October 30, 2018. Collaborative presentations (NOAA and CWG) on topics; Modeling and Prediction, TPOS 2020, Science Decision Support and NOAA presentations on realignment within OAR between CPO and OWAQ . The CGHC Post Doc Program report was submitted to the SAB at the February meeting. Planning session for 2019 CWG meeting was held on February 13. The goal was to set a date, location and agenda for a Fall 2019 in-person meeting in DC.

Future

The Fall 2019 CWG in-person meeting will be held in DC during November (dates still being set). Agenda and speakers will be agreed upon.

The replacement for 4 CWG members (with expiring terms) will be pursued and the renewal of 4 current members for a second term will be submitted to the SAB by the Fall meeting.

Ongoing collaboration with EISWG on Weather Act activities



DAARWG

SAB April 2019 Meeting



Working Group Overview

Acting Chair: Chelle Gentemann (pending approval)

NOAA SAB liaison(s): Robert Grossman

Membership (vacancies, expertise, timing of approval) :

expertise gaps: industry, open science, big data, artificial intelligence (AI), and data science

NOAA Liaison: Ed Kearns (NOAA CDO)

Activities since November 2018 SAB meeting

DAARWG members had a brief teleconference in December 2019 to discuss membership.

The acting Chair and NOAA and SAB Liaison held anticipatory discussions on possible future topics for DAARWG consideration.

Scope and Focus of Current Efforts

- Data Access

Future

- Schedule Spring meeting & address expertise gap
- SAB Work Plan topic 4: Review Improving Collection, Management, Dissemination and Decision Support Using Machine Learning, Artificial Intelligence (AI) and Data Science
- Geospatial Data Act
- NOAA PARR implementation
- NOAA response to M-16-21 (OMB 2016 Federal Source Code)
- LO deep dive: identify enterprise solutions to address gaps in data and software archives.
- Membership



Environmental Information Services Working Group SAB April 2019 Meeting



Working Group Overview

Chair/Co-Chairs: John Snow and Brad Colman
NOAA SAB liaison(s): Bob Winokur and Everette Joseph

Membership (vacancies, expertise, timing of approval):
Currently two vacancies on the EISWG and two future vacancies by fall 2019. Candidate panel for four new members has been selected by the working group and the nomination package is being prepared. We will seek SAB approval prior to the June SAB virtual meeting.

Activities since November 2018 SAB meeting

- Completion of the Topic 2 tasking from the SAB by the OSSE Task Force
 - Update presented at February SAB meeting
 - Final discussion and submission April meeting
- 2-3 April 2019 Virtual EISWG Meeting:
 - EISWG Membership
 - Review and approval of OSSE white paper
 - Prioritization of Weather Act reports
 - Discussion of the annual EISWG report to Congress

Scope and Focus of Current Efforts

- SAB Work Plan Activities:
 - Addressing SAB Work Plan Topic 2: Review the Use of Observing System Simulation Experiments (OSSEs)
- EISWG annual report to Congress
- Weather Act of 2017 Topic Areas of Interest:
 - PL 115-25 Section 107(d) - Observing System Simulation Experiment (OSSE)
 - PL 115-25 Section 104(c) - Hurricane Forecast Improvement Program
 - PL 115-25 Section 406(b)(1)(B) - Hazards Simplification Project
 - PL 115-25 Section 201(3) - Improving Subseasonal And Seasonal Forecasts

Future

- **June EISWG in-person meeting**
- **New Weather Act of 2017 Topic Areas of Interest:**
 - Earth Prediction Innovation Center (Sec. 102*)
 - Next Generation Global Prediction System (NGGPS) (Sec. 105)
 - Environmental Information Services Working Group (EISWG) (sec. 401)
 - Review and provide advice on existing or emerging technologies beyond NOAA
 - Tornadoes (+1h on lead times; R2O, etc.) (Sec. 103)
 - Social and Behavioral Science
- Ongoing collaboration with CWG and other SAB working groups on EISWG areas of interest



Ecosystem Sciences and Management Working Group SAB April 2019 Meeting



Working Group Overview

Co-Chairs: Mike Castellini and Rob Johnston
NOAA SAB liaison: Mike Donahue

Membership :
5 nominations for new members in progress

Three members' terms up for renewal: Both co-chairs, Jan. 2020

Activities since November 2018 SAB meeting

- December 2018 Meeting in Miami
- Outline of paper on the Topic 9 “Emerging Technologies for Stock Assessments” assignment developed.
- Experts identified to consult on this topic.
- Meetings held with Mike Donahue and Line Office Liaisons to discuss this topic and future activities for the ESMWG.
- Nominations package developed to add five new members.
- Citizen Science Report approved; transmitted to NOAA.

Scope and Focus of Current Efforts

- Topic 9 paper will cover general points about where technologies are headed.
- Suggested categories for the technologies:
- Not completely ground-truthed but possible impact within 3 yrs (e.g. Fourier Transform-Near Infrared Spectroscopy (FT-NIRS) of fish otoliths.
- Some proof of concept but needs more work (e.g. SaildronesResearch mode and 5-10 years in the future (e.g. eDNA and the ideas in the ‘Omics Roadmap)

Future

- Direction from LOs and SAB on new areas for the ESMWG to cover and produce reports.
- NOAA review and comments on the Citizen Science Report.
- Comments on the R&D plan outline.
- Topic 9 “Emerging Technologies for Stock Assessments” paper to be developed and presented at the July SAB meeting.