



Update from NOAA's Climate & Global Change Postdoctoral Program

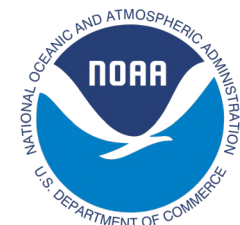
A Presentation to the
NOAA Science Advisory Board

Wayne Higgins, PhD
Director

Climate Program Office
Office of Oceanic and Atmospheric Research

UCAR
COMMUNITY
PROGRAMS

 **CPAESS**
Cooperative Programs for the
Advancement of Earth Science Systems



July 23, 2020

NOAA Climate & Global Change Postdoctoral Program

Purpose

To provide an update to the Science Advisory Board on:

- NOAA's Climate and Global Change Postdoctoral Program.
- Recent Program activities and updates motivated by the Climate Working Group's Review of the Program.
- NOAA's Response to the Climate Working Group's Review of the Program.

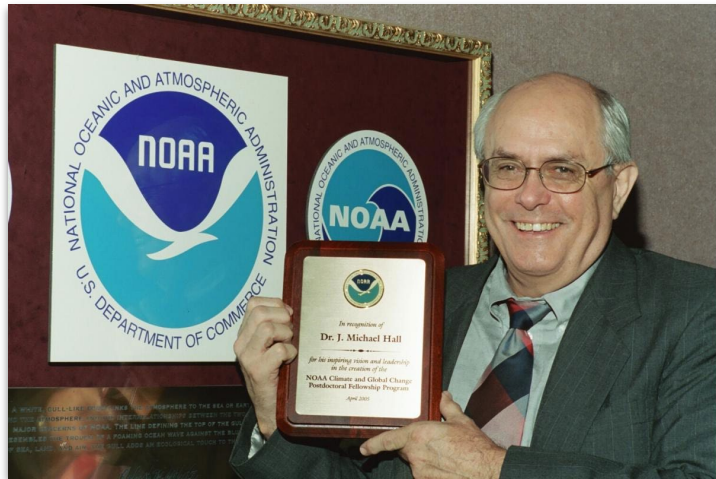
Desired Outcome

- This briefing is to provide the SAB with an **informational update**; no action is currently required by the SAB.

NOAA Climate & Global Change Postdoctoral Program

C&GC

Since 1991, the NOAA Climate & Global Change Postdoctoral Program has been growing the next generation of climate experts.
Imagine the future....



Michael Hall
Former Director of the NOAA
Climate Program Office
Founded the C&GC Postdoc
Program in 1990



William D'Andrea
Class 18



Seeta Sistla
Class 23

NOAA Climate & Global Change Postdoctoral Program

2019 CWG

Climate Working Group Review

Objectives: Examine and evaluate the NOAA Climate and Global Change Postdoctoral Program needs, the history and current program model, the value of the program, and the best ways to proceed given the possibility of several different budget scenarios

Outcomes: Convened under the auspices of the SAB's Climate Working Group, the Panel prepared a report, including recommendations on the quality, relevance, and performance of the NOAA Climate and Global Change Postdoctoral Program

Theme: Climate and global change research ensures that we are a weather-, water-, and extreme events-ready nation

NOAA Climate & Global Change Postdoctoral Program

2019 CWG

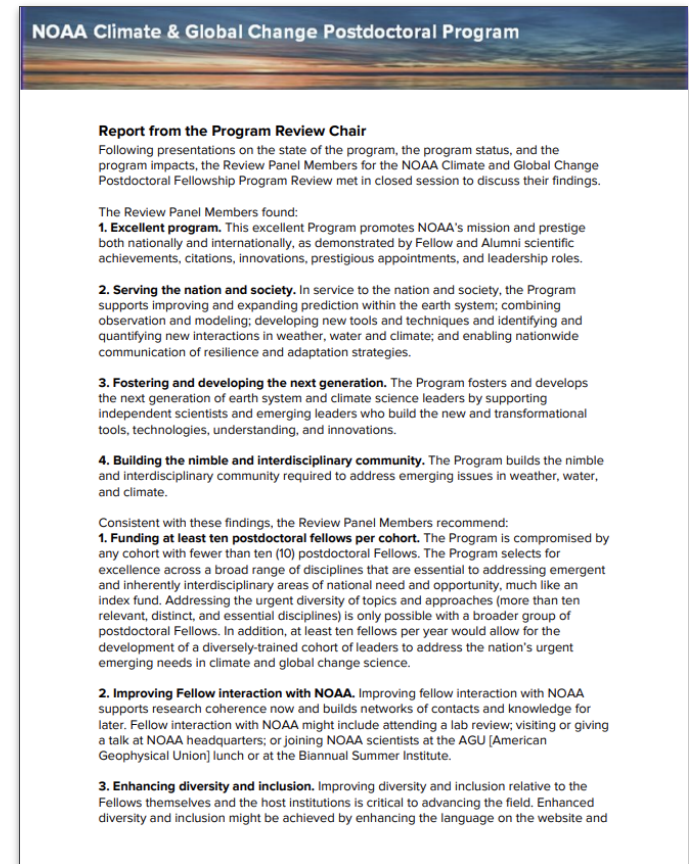
Climate Working Group Review

Key Findings:

- 1) Excellent Program
- 2) Serving the nation and society
- 3) Fostering the development of the next generation of leaders
- 4) Building the nimble and interdisciplinary community

Key Recommendations:

- 1) Funding at least ten postdoctoral Fellows per cohort
- 2) Improving Fellow Interaction with NOAA
- 3) Enhancing diversity and inclusion
- 4) Incorporating ongoing and well-maintained metrics
- 5) A note about alternative funding



NOAA Climate & Global Change Postdoctoral Program

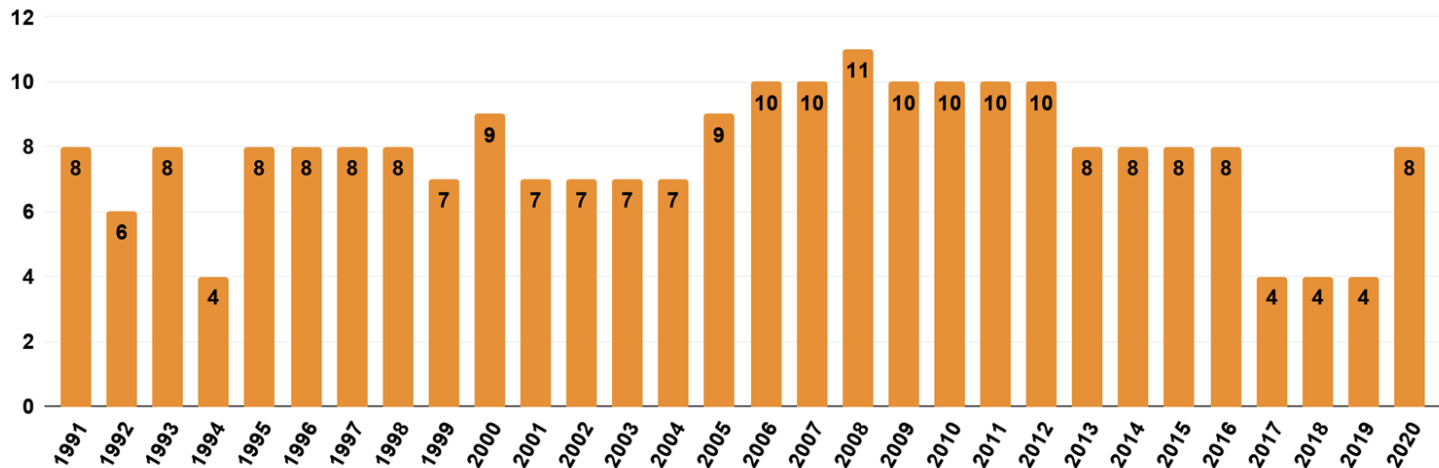
UPDATES

Review Panel Recommendation #1:

Restore the number of postdocs back to 8-10 per year

NOAA Update:

- NOAA is supporting 8 Fellows in FY2020.
- Beyond FY2020, 8-10 Fellows is a good target, contingent upon budget.



Total Number of C&GC Fellows: 238
Average Number of Fellows Per Year: 8

NOAA Climate & Global Change Postdoctoral Program

2020 CLASS



Becki Beadling
Oceanography
NOAA GFDL



Andrea Jenney
Atmospheric Dynamics
University of California, Irvine



Xiaomeng Jin
Atmospheric Chemistry
University of California, Berkeley



Isabel McCoy
Atmospheric Dynamics
University of Miami, RSMAS



Sebastian Milinski
Climate Sensitivity
NCAR Climate & Global
Dynamics Division



Uday Kunwar Thapa
Hydrological Cycling
University of California,
Santa Barbara



Nina Whitney
Coupled Ocean/Atmosphere
Woods Hole Oceanographic
Institute



Madeleine Youngs
Atmospheric Dynamics
New York University

NOAA Climate & Global Change Postdoctoral Program

UPDATES

Review Panel Recommendation #2:

Increase interactions between NOAA and the Program

NOAA Update:

- Communicate NOAA priorities, gaps, and opportunities to the application solicitation process and focus discussions in the Summer Institutes.
- Require proposals to describe specific NOAA interactions.
- Provide opportunities for Fellows to visit NOAA, use NOAA's data/models for their research, or otherwise connect with NOAA.
- Communicate accomplishments to NOAA leadership and the community
 - Write “hot items” about Fellow publications.
 - Include Fellow seminars in the OneNOAA science seminars.
 - Summarize program information on the UCAR website.

NOAA Climate & Global Change Postdoctoral Program

2019 INSTITUTE

2019 Summer Institute in Steamboat Springs, CO

Theme: Climate science in the age of realized climate change.

2019 Highlights:

- 12 current and recent former Fellows attended.
- Initiated a pilot to advance “Fellow-NOAA” interactions.
- NOAA Staff attended the institute, gave scientific presentations, and facilitated discussions.
- Developed plans to further expose Fellows to the work at NOAA.

The 2021 Summer Institute is being planned now.

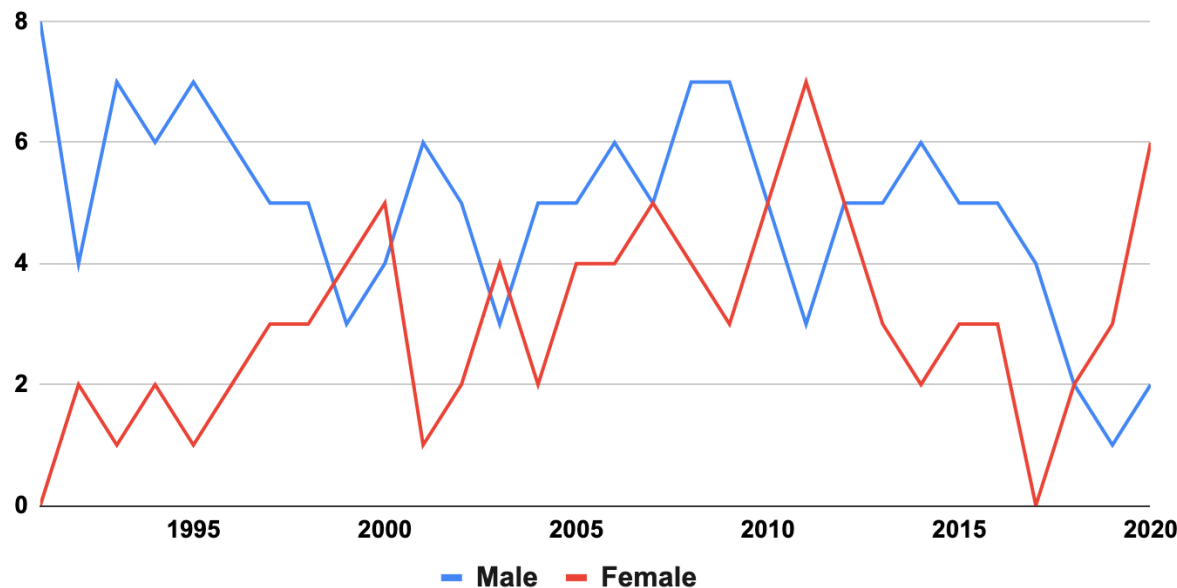
NOAA Climate & Global Change Postdoctoral Program

UPDATES

Review Panel Recommendation #3: Enhance diversity and inclusion (D&I)

NOAA Update:

- Added D&I Training to C&GC Steering Committee meetings.
- Added a rule to consider D&I for selection of Fellows.



Total Percentage:
Male: 64%
Female: 36%

Average Per Year:
Male: 5
Female: 3

NOAA Climate & Global Change Postdoctoral Program

UPDATES

Review Panel Recommendation #4:

Incorporate ongoing and well-maintained metrics

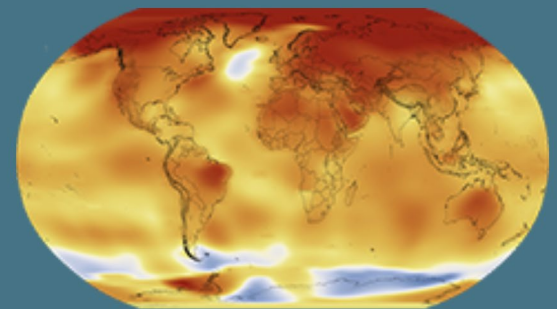
NOAA Update:

- Based upon the recommendation of the NOAA Climate and Global Change Program Review Panel, CPAESS has continued to collect and maintain metrics.
- The metrics are kept and maintained at UCAR.
- Metrics are updated on an annual basis to align with the NOAA Climate and Global Change Fellowship application process.



**NOAA Climate &
Global Change
Postdoctoral
Program**

**See Current Awardees &
Alumni Database**

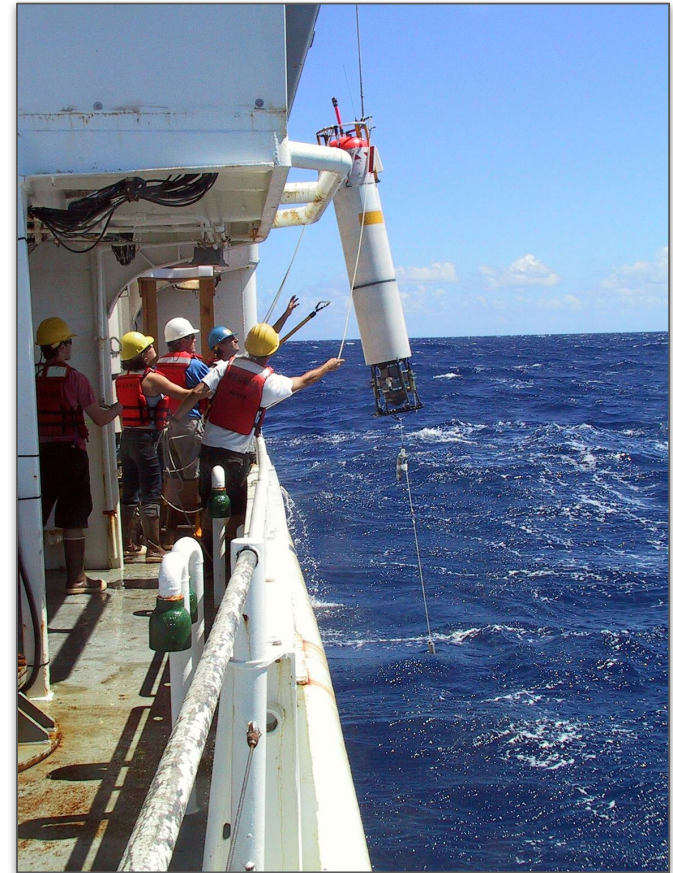


NOAA Climate & Global Change Postdoctoral Program

C&GC

By the Numbers

- 238 postdoctoral fellowships.
- 978 publications have resulted from the C&GC Postdoctoral Program with an average of 4.4 publications per Fellow.
- C&GC Fellows have been hosted at 60 different U.S. institutions.
- C&GC Alumni now work at 134 different institutions worldwide.
- 2 MacArthur Fellowship “Genius Grant” awardees.



James Girton, Class 11

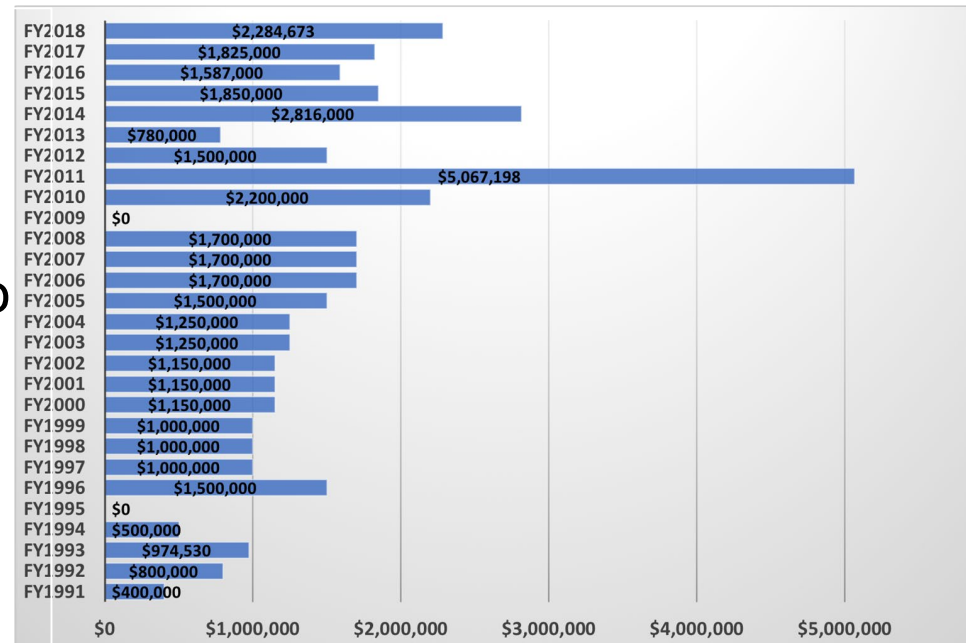
NOAA Climate & Global Change Postdoctoral Program

UPDATES

Review Panel Recommendation #5: Note about alternative funding models

NOAA Update:

- Funding increases in recent appropriations funded 8 Fellows in 2020, with plans to maintain support.
- Increasing Program visibility and relevance within all of NOAA.



Annual C&GC Program Funding



QUESTIONS?

Wayne Higgins | wayne.higgins@noaa.gov