



# Climate Program Office Review

May 24-26, 2022

## Welcome

Dr. Wayne Higgins, Director  
Climate Program Office



Climate Program Office

Video: NOAA's CPO



Climate Program Office

# CPO Overview

# Outline

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- Congressional Mandates & Current Drivers
- CPO Vision and Mission
- What does CPO do?
- Engagement and Partnerships
- Accomplishments & Indicators of Excellence
- Leadership
- Workforce
- Budget
- Priorities & Changes Ahead
- Activity Areas for the Review
- Structure of the Review



## CPO works in direct response to Congressional authorizations & mandates



### **Climate research:**

- National Climate Program Act, 15 U.S.C. §§ 2901-2908;
- Global Change Research Act of 1990, 15 U.S.C. §§ 2921-2961

### **International climate research:**

- International Cooperation in Global Change Research Act of 1990, P.L 101-606, 15 U.S.C. §§ 2951-2953

### **Drought research:**

- National Integrated Drought Information System Reauthorization Act of 2018, P. L. 115-423, 15 U.S.C. § 313d

### **Weather research:**

- Weather Research and Forecasting Innovation Act of 2017, 15 U.S.C. § 8501;

## Tackling the climate crisis

Priority 1: “Ensure NOAA is seen as the primary authoritative provider of climate information and services. From the individual to the business to the tribe to the government, NOAA should be the agency that people turn to for reliable, accessible, relevant, actionable, easy-to-use climate information.”

*-Dr. Rick Spinrad  
September 30, 2021*

# Current Momentum Around Climate Information & Services



Intra-agency	Interagency	International
<p>NOAA Priorities</p> <p>President’s Budgets (FY2022 (execution); FY2023 and FY2024 (planning))</p> <p>FY2023 OMB-OSTP R&amp;D Priorities Memo</p> <p>Department of Commerce Strategic Plan (2022-2026)</p> <p>Department of Commerce Climate Adaptation Plan (2021)</p> <p>NOAA’s Climate Mission Service Area</p> <p>NOAA Climate and Fisheries Initiative (CFI)</p> <p>NOAA Fisheries Climate Science Strategy (NCSS)</p> <p>NOAA Climate Science Strategy Regional Action Plans (RAP)</p> <p>NOAA Diversity and Inclusion Strategic Plan (2020-2024)</p> <p>Extensive experience and boots-on-the-ground</p>	<p>EO 14008, Section 211(d)</p> <p>EO 13985 // Advancing Racial Equity and Support for Underserved Communities through the Federal Government</p> <p>USGCRP 5th National Climate Assessment and Decadal Strategic Plan (2022-2031)</p> <p>Dr. Lubchenco’s Challenge Letter to the USGCRP</p> <p>NSTC Subcommittees (especially SOST, SRST, SGCR)</p> <p>ICAMS Subcommittee on Climate Information Services</p> <p>Interagency Working Groups for drought, wildfire, heatwave, coastal resilience, flooding</p> <p>White House Environmental Justice Advisory Council</p> <p>National Climate Strategy</p> <p>Agency Climate Adaptation and Resilience Plans</p>	<p>Paris Agreement</p> <p>COP26 // Preparing for COP27</p> <p>PPGC and WCRP/WMO</p> <p>WMO Climate Services</p> <p>IPCC</p> <p>Arctic Council</p> <p>UN Ocean Decade</p> <p>National Intelligence Estimate: Climate Change and International Responses Increasing Challenges to U.S. National Security Through 2040</p>

# NOAA Organizational Structure



**National Environmental  
Satellite Data and  
Information Service**

**National Marine Fisheries**

**National Ocean Service**

**National Weather Service**

**Oceanic and Atmospheric  
Research**

**Office of Marine and  
Aviation Operations**

**Climate  
Program  
Office**



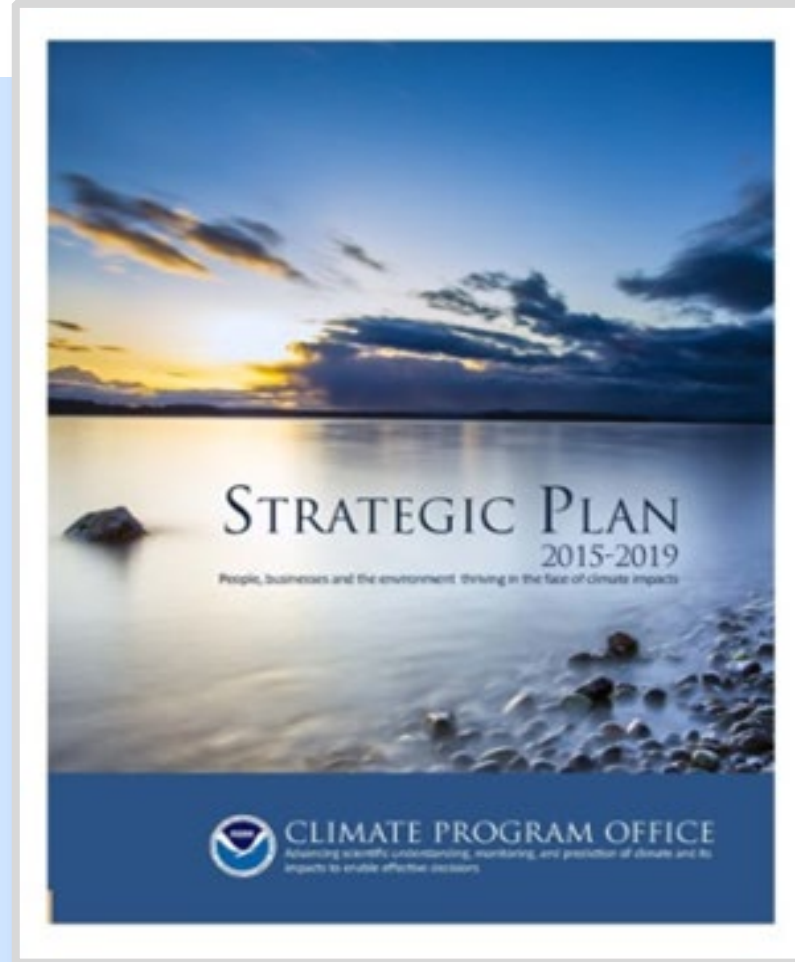


- **the NOAA mission\*** *to understand and predict changes in climate, weather, oceans, and coasts, to share that knowledge and information with others, and to conserve and manage coastal and marine ecosystems and resources.*
- **the OAR mission** *to conduct research to understand and predict the Earth system; develop technology to improve NOAA science, service, and stewardship; and transition the results so they are useful to society.*

\*A new NOAA Strategic Plan (FY22-FY26) will be released in June 2022. NOAA last published a Strategic Plan in 2008.

## CPO Vision

*People, businesses,  
and the environment  
thriving in the face of  
climate impacts*



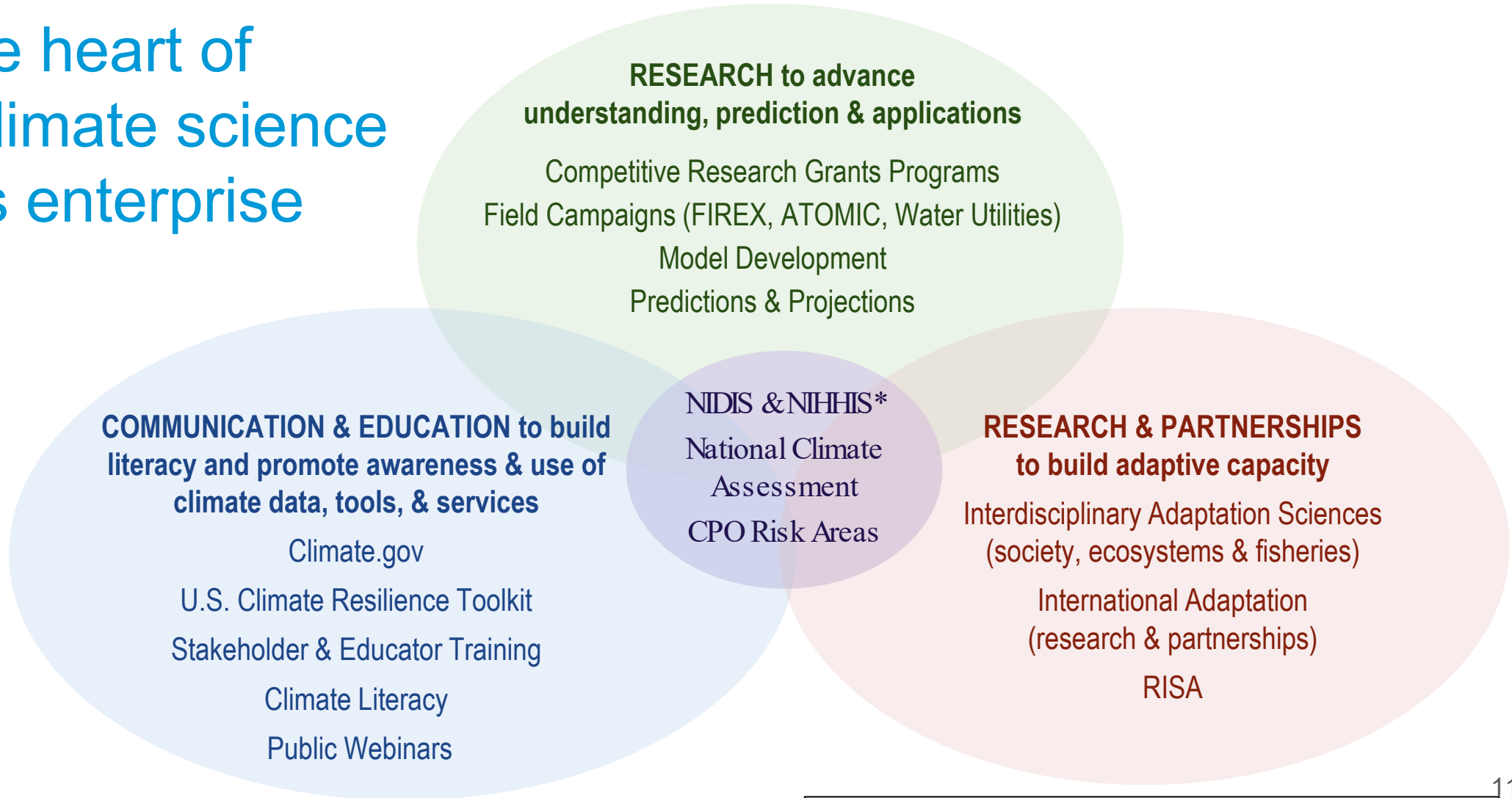
## CPO Mission

*We advance scientific  
understanding,  
monitoring, and  
prediction of climate and  
its impacts to enable  
effective decisions*

# What does CPO do?



## CPO is the heart of NOAA's climate science & services enterprise

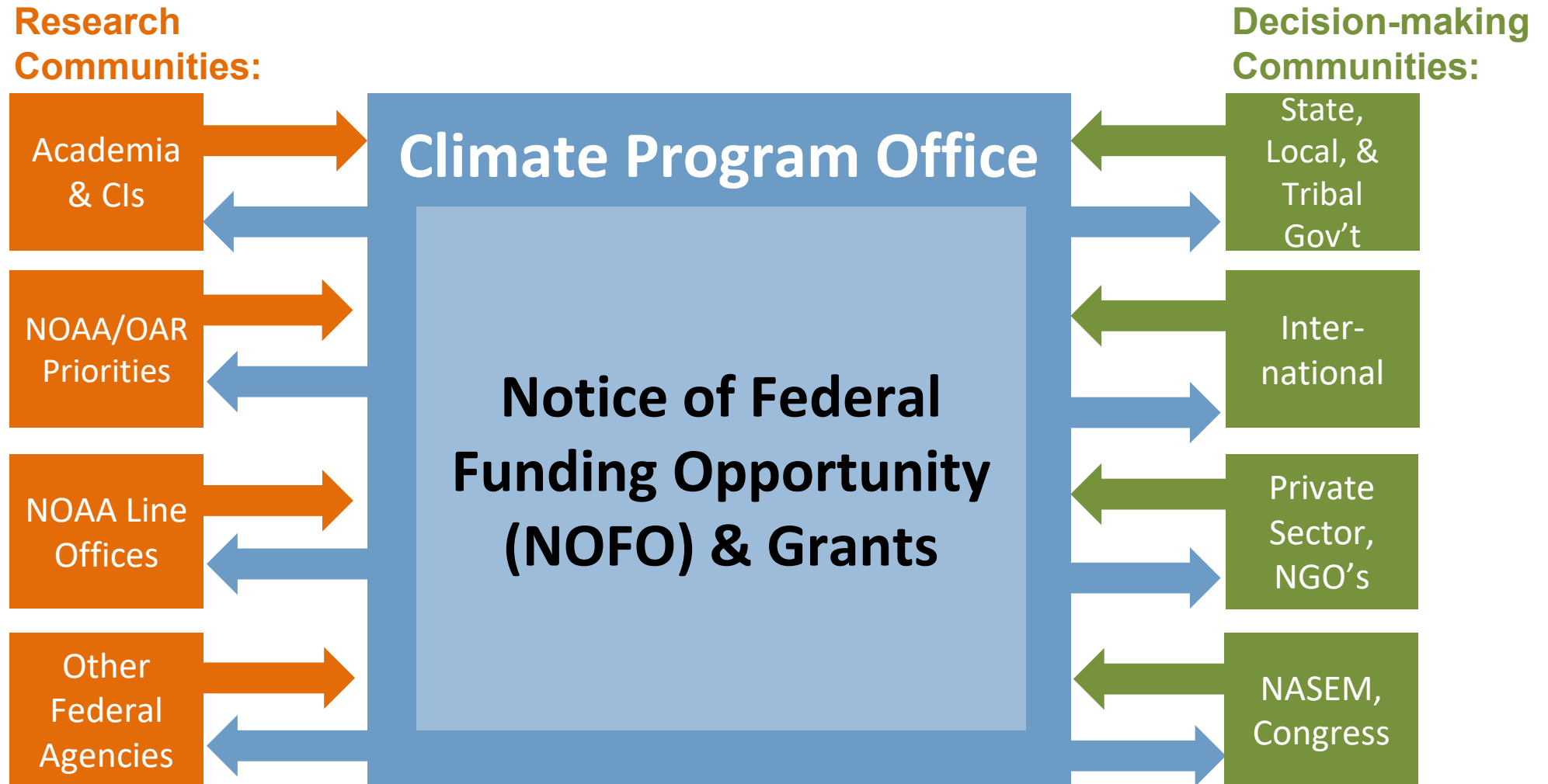


\*NIDIS: National Integrated Drought Information System  
NIHHIS: National Integrated Heat Health Information System

# Engagement: Funding Opportunities



CPO works with the broad research & decision-making communities to gather inputs for its funding opportunities.



# Engagement: Collaborations and Partnerships



## Government

OAR Research Laboratories & Programs

NOAA Line Offices (NESDIS; NMFS; NOS; NWS)

U.S. Government Agencies

U.S. Global Change Research Program (USGCRP)

Interagency Council for Advancing Meteorological Services (ICAMS)

International Agencies (e.g. IPCC, WMO)

State and Local Government Organizations



## Other Collaborations

Universities & Cooperative Institutes

NCAR/UCAR

U.S. Private Sector (PPP's)

U.S. Non-Government Organizations

Professional Societies (e.g. AMS; AGU; ASCE; ASAP; APA)

Climate Leadership Organizations  
(e.g. Water Utility Climate Alliance)



## CPO benefits from the advice of the NOAA Science Advisory Board (SAB) Climate Working Group (CWG):

- Coastal Inundation at Climate Timescales White Paper (Review; Aug 2021)
- Climate and Fisheries Initiative Implementation Approach (Review; Aug 2021)
- Advancing Earth System Prediction (White Paper; Mar 2021)
- Precipitation Prediction Grand Challenge Strategy (Review; Aug 2020)
- Opportunity for COVID-19-related Earth System monitoring and prediction efforts (Letter to SAB; Apr 2020)
- Subseasonal-to-Seasonal-to-Decadal (White Paper; Dec 2019)
- NOAA's Climate & Global Change Postdoctoral Program (Review; Aug 2019)

# CPO by the Numbers (FY2021)



**62**

NOAA and non-  
NOAA employees

**\$75.2M**

Annual Budget

**130**

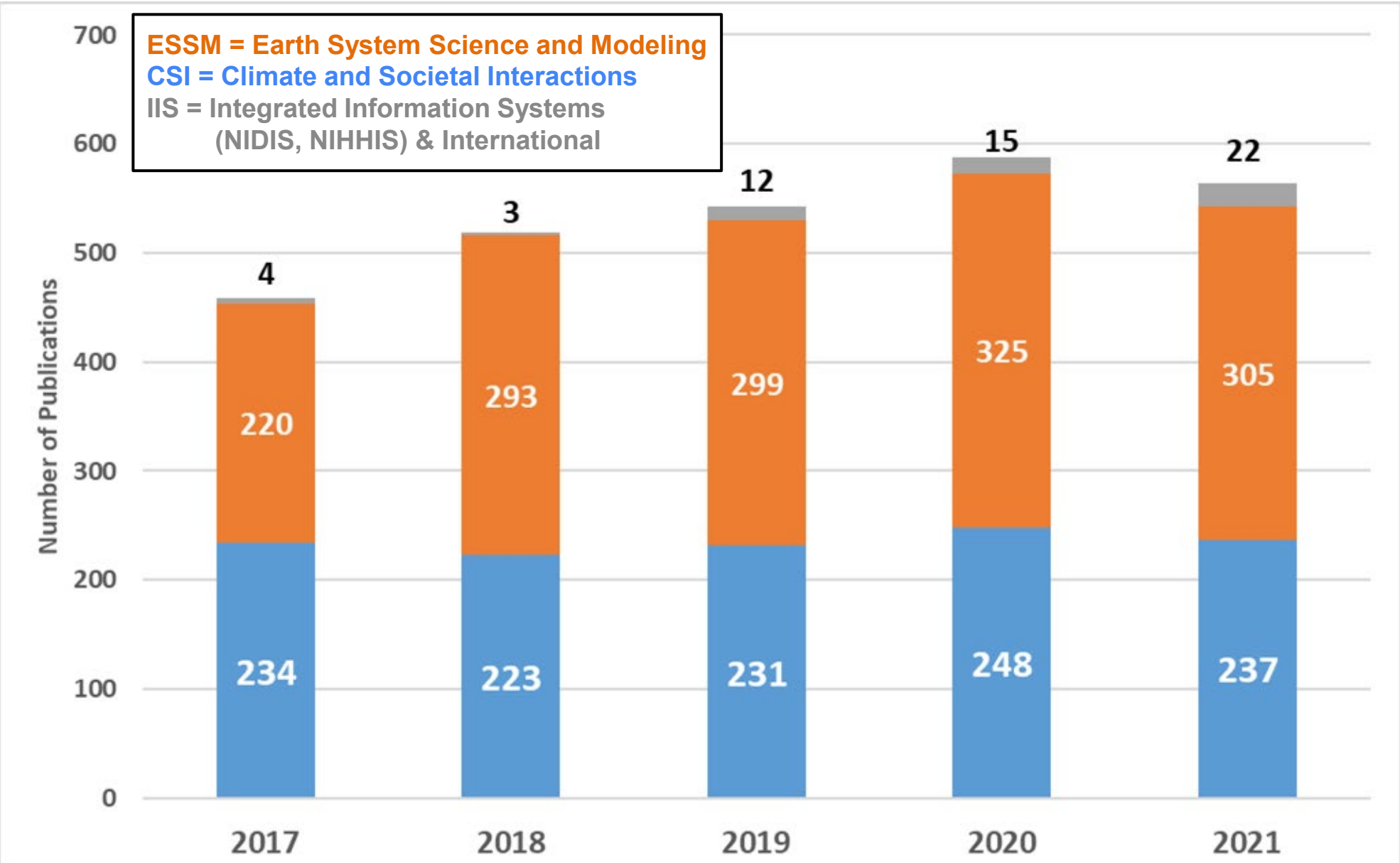
New grant  
awards  
each year

as well as 125 grant  
contributions, interagency  
agreements and  
reimbursable agreements

**>500**

Sponsored peer-  
reviewed  
publications

# CPO-Supported Articles Per Year (2017-2021)



# CPO Highly Cited Articles (ESSM)



**"Influence of high-latitude atmospheric circulation changes on summertime Arctic sea ice."**  
Ding et al. (Mar 2017) *Nature Climate Change*

CVP  
FY15



173 citations 122 news stories



**"Twofold expansion of the Indo-Pacific warm pool warps the MJO life cycle."**  
Roxy, et al. (Nov 2019) *Nature*

CVP  
FY17/18

32 citations 32 news stories



**"Present and future Köppen-Geiger climate classification maps at 1-km resolution."**  
Beck, et al. (Oct 2018) *Scientific Data*

MAPP  
FY15



879 citations 5 news stories



**"Large contribution from anthropogenic warming to an emerging North American megadrought."**  
Williams, et al. (Apr 2020) *Science*

MAPP  
FY19



136 citations 338 news stories



**"Arctic amplification is caused by sea-ice loss under increasing CO2."**  
Dai, et al. (Jan 2019) *Nature Communications*

COM  
FY14



148 citations 25 news stories



**"A comprehensive quantification of global nitrous oxide sources and sinks."**  
Tian, Hanqin, et al. (Oct 2020) *Nature*

AC4  
FY13



131 citations 146 news stories



**"Key indicators of Arctic climate change: 1971–2017."**  
Box, et al. (Apr 2019) *Environmental Research Letters*

COM  
FY17



166 citations 70 news stories

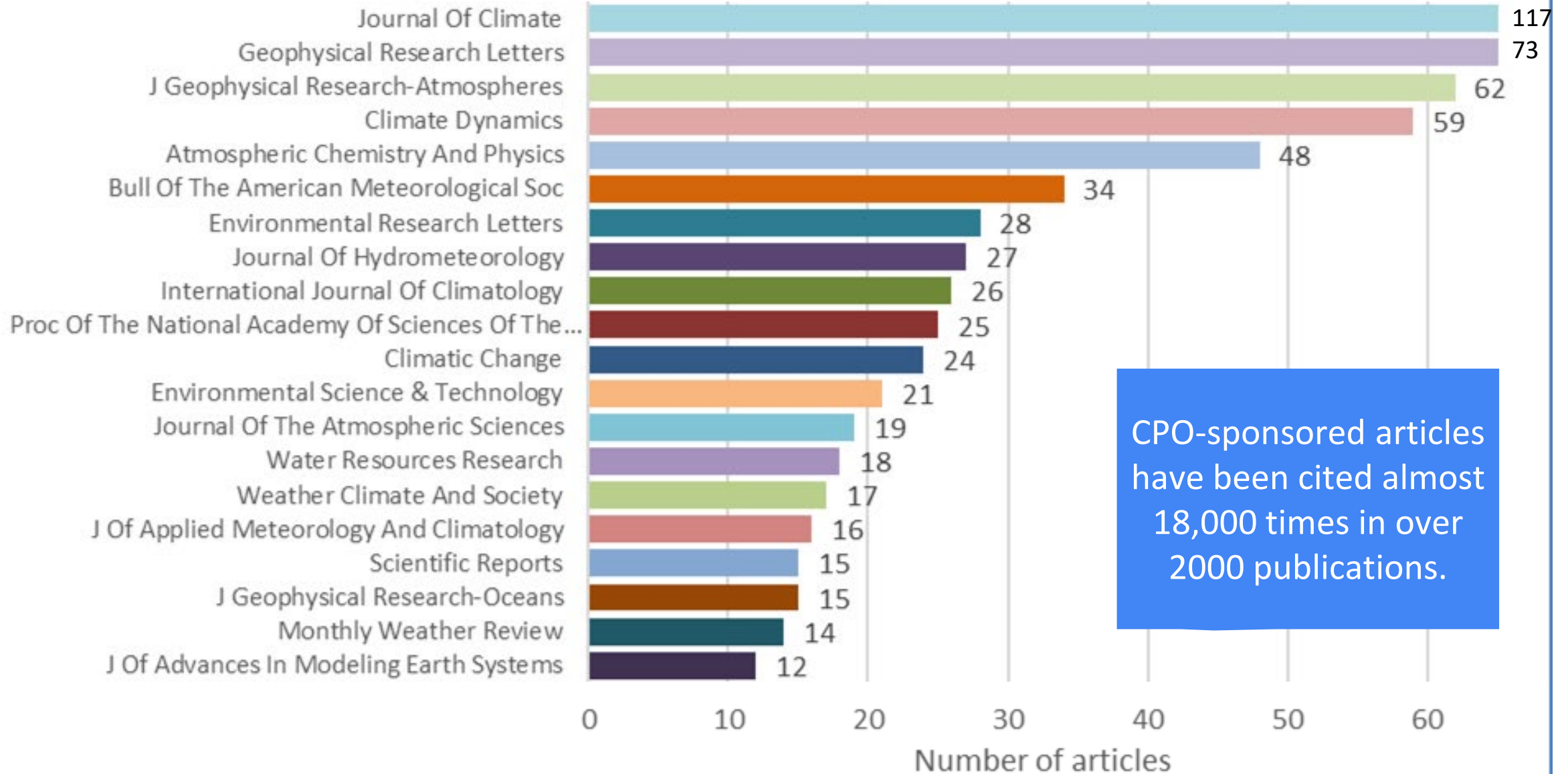


**"Majority of US urban natural gas emissions unaccounted for in inventories."** Sargent, Maryann R., et al. (Nov 2021) *Proceedings of the National Academy of Sciences*

AC4  
FY17

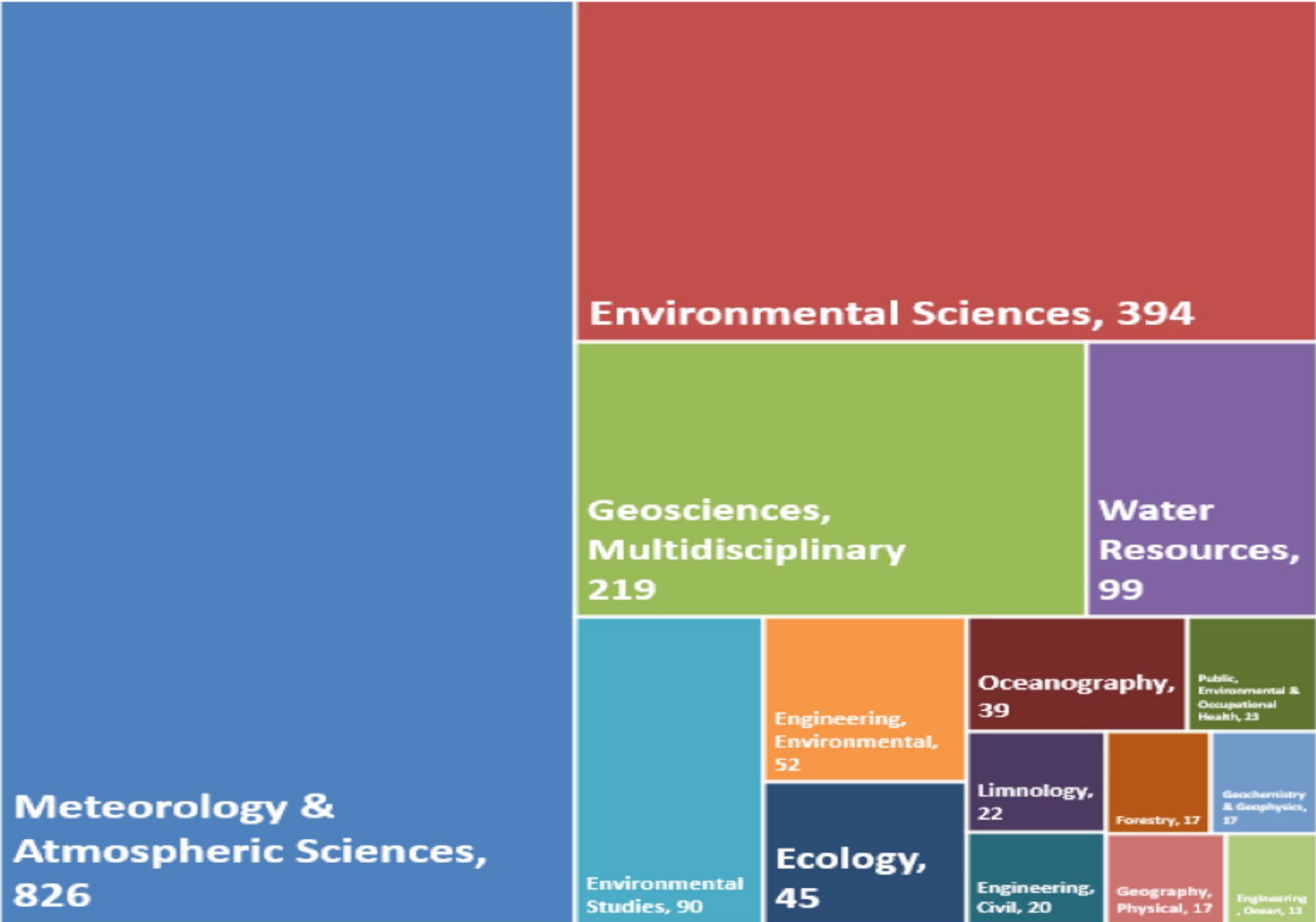
0 citations 36 news stories

# CPO Articles Per Journal (2017-2021)






# Top Research Areas of CPO Articles (2017-2021)




# Field Studies and Campaigns



## Fire Influence on Regional and Global Environments Experiment (FIREX)



**AEROMMA:**  
Atmospheric Emissions and Reactions  
Observed from Megacities to Marine Areas



NOAA-NIST Longitudinal Study on Small and Medium Business Disruption and Resilience in the Context of Complex Events: COVID-19 and Natural Disasters



**DYNAMO**  
2011-2012  
Dynamics of the Madden-Julian Oscillation



## Years of the Maritime Continent


**North American Monsoon Experiment**



**VOCALS Regional Experiment**



VAMOS Ocean Cloud Atmosphere Land Study  
October- November 2008



**Tropical Ocean – Global Atmosphere (TOGA) Coupled Ocean Atmosphere Response Experiment (COARE)**

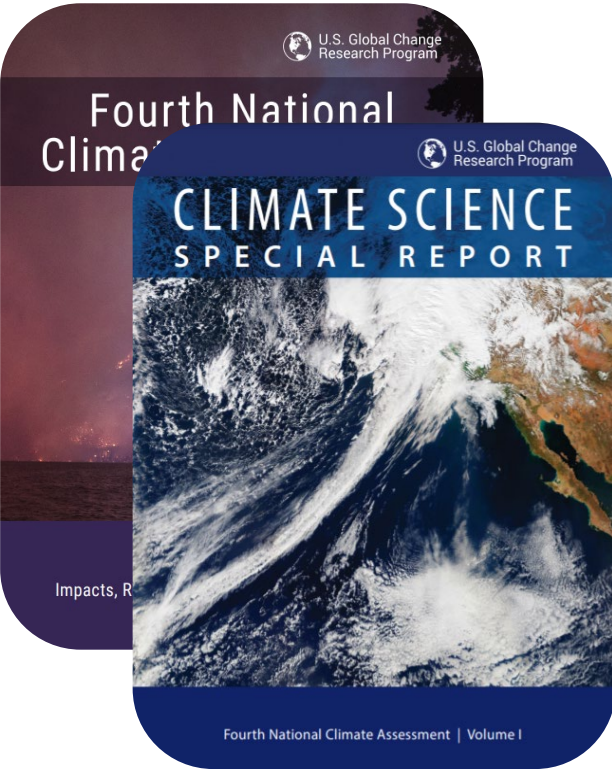


climate and weather Information for Small- and medium-size Water Utilities

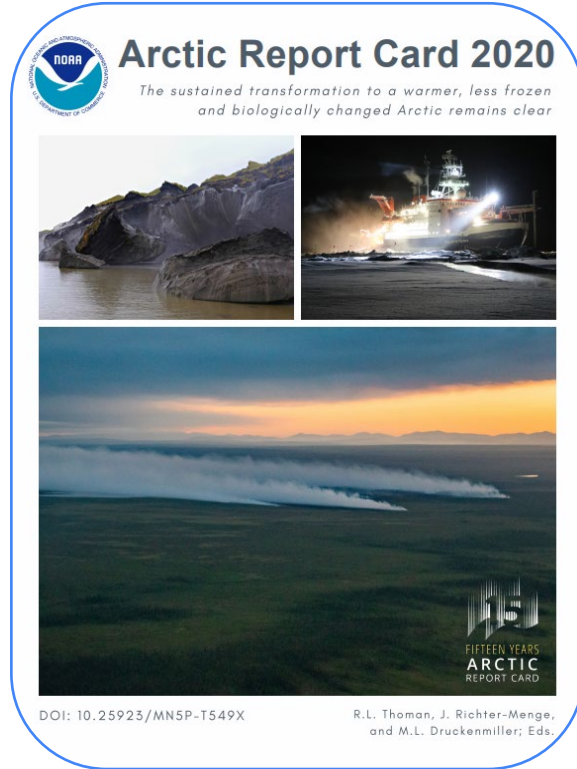




# Highly Influential Assessment Reports



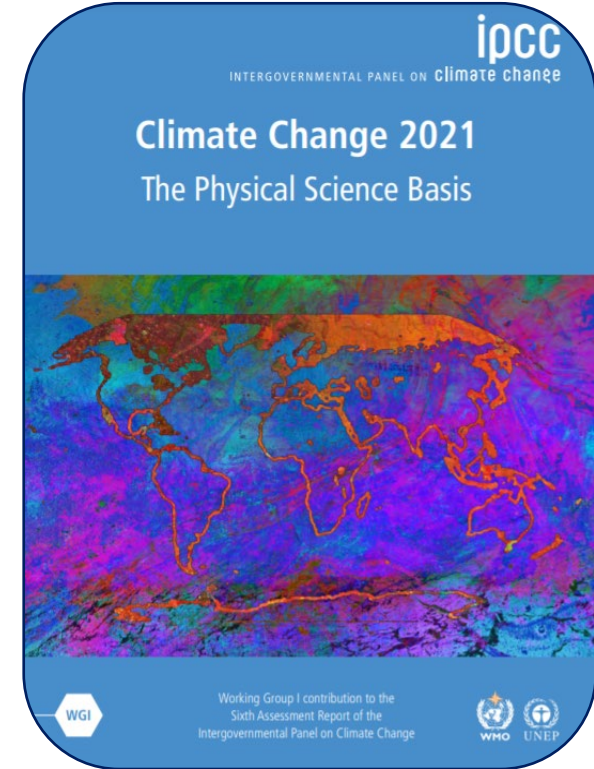
**407 citations**  
2,800+ news stories  
2018



**11 citations**  
1,000+ news stories  
2020



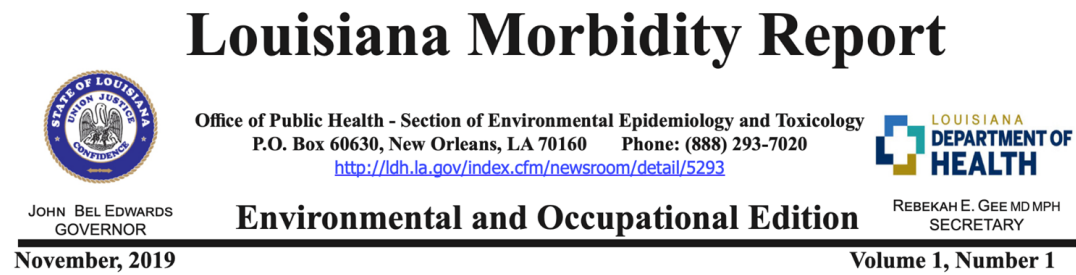
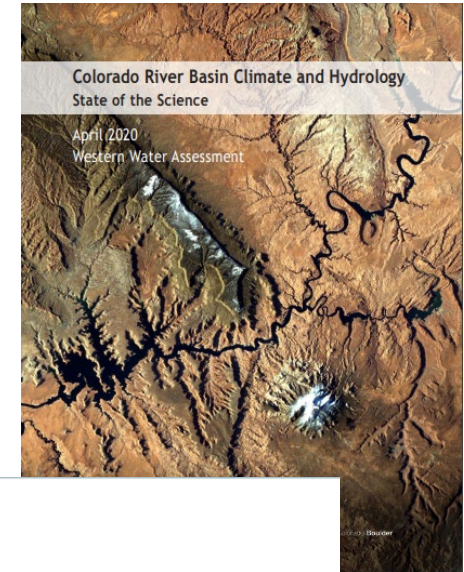
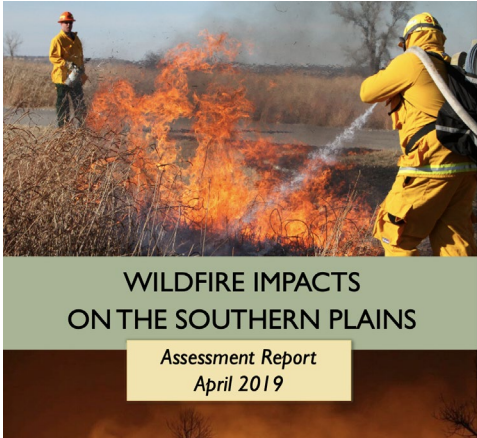
**4 citations**  
~770 news stories  
2021



**12 citations**  
4,000+ news stories  
2021



# Relevance: Research Informing Decisions

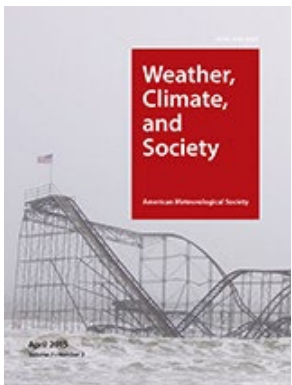


**Building Resilience in an Urban Coastal Environment**  
Integrated, Science-Based Planning in Jamaica Bay, New York

## Influencing a generation of science policy **scholarship**



“Climate information services for adaptation: what does it mean to know the context?”  
Guido, et. al (2020)  
**6 Citations**



“Moving toward the Deliberate Coproduction of Climate Science Knowledge.” Meadow et al. (2015)  
**364 Citations**

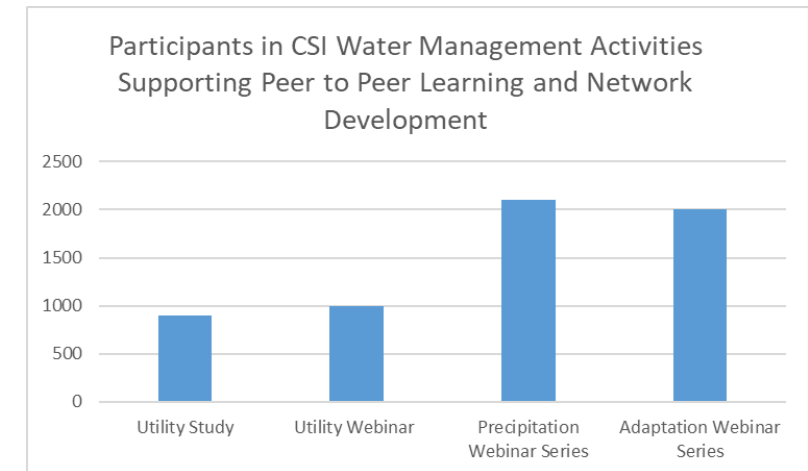
## Putting engagement **scholarship into practice** to support capacity building for adaptation and planning



South Central RISA Team’s  
*Simple Planning Tool for Oklahoma and Arkansas*

Winner of 2019 **Route Fifty Navigator Award** and the Oklahoma Chapter of the American Planning Association’s award for **Outstanding Public Outreach, Program, Project, Tool, or Community Initiative**

## Strengthening **partnerships** to support peer to peer learning and network development





# Climate.gov Content Views (2021)



## Climate.gov Pageviews:

**8.9M**

All Sections

(36% growth over FY20)

**5.5M**

News & Features

**2.2M**

Maps & Data

**1.2M**

Teaching Climate  
& CLEAN

## Social Media Views:

**3.3M**

Facebook &  
Instagram

**1.1M**

Twitter

**208K**

Video Services  
(Youtube & Vimeo)

**33K**

Weekly newsletter  
subscriptions

# US Climate Resilience Toolkit Content Views (2021)

**516K**

USCRT  
Pageviews

**5:1**

Benefits-to-Cost  
Ratio\*

**173K**

Climate Explorer  
Pageviews

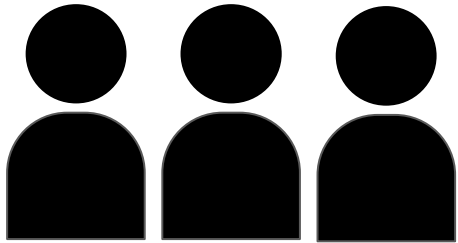
**20:1**

Benefits-to-Cost  
Ratio\*

\*Source: NEMAC (2020)

\*Source: USDA Forest Service (2021)

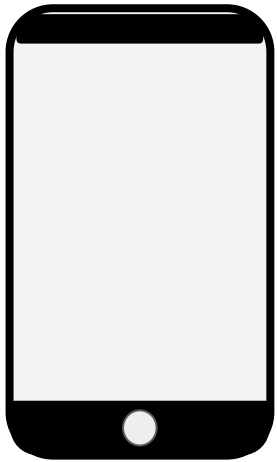
# Drought.gov Performance by the Numbers (2021)



**1.2 Million**

Users from all 50 states, U.S. territories, & across the globe

Drought.gov provides actionable information for decision makers, the media, & the public



**146%**

increase in mobile phone users (vs. 2020)

Drought.gov is responsive and mobile-friendly, with improved accessibility



**120**

Media outlets used Drought.gov in their communications

Drought.gov is a trusted resource for easily shareable drought information

# CPO Education by the Numbers (2017-2021)



**14**

Fellows

(13 Knauss, 1 PMF)

**24**

HS, Undergraduate &  
Graduate Interns

**6,530**

K-12 Educators  
Supported

**44**

State Standards  
Influenced by  
Climate Literacy

CPO Supported:

**33**

Climate & Global  
Change Post Docs

**10**

AMS Graduate  
Fellows

**12**

SOARS  
Proteges

**37**

OAR Lapenta  
Interns

# CPO Awards & Recognition



## National

- AMS Fellows (4)
- AMS Special Award
- Lead authors of highly cited journal articles and assessment report chapters
- Keynote and invited conference presentations
- Climate & Global Change Postdoctoral Fellowships
- Sea Grant Knauss Marine Policy Fellowships
- State Dept. Embassy Science Fellow
- Pacific Coast Geographers President's Award
- Switzer Environmental Fellowship

## State/Local/Tribal

- Samuel Proctor Award (FL Historical Society)
- COAST GRA (California State University)
- Mayoral Special Recognition (Monroe CO, FL)

## DOC/NOAA/OAR

- DOC Gold Medalists (1)
- DOC Silver Medalists (6)
- DOC Bronze Medalists (5)
- NOAA Administrator's Award (3)
- NOAA Albritton Communicator Award (1)
- NOAA NESDIS Collaboration Award
- NOAA NOS Peer Rafting Award
- NOAA EEO Diversity
- NOAA Order of Sherman's Lagoon (4)
- NOAA Team Member of the Month (1)
- OAR Outstanding Scientific Paper Award (1)

## International

- Master of Ceremony (U.S. Center @ COP26)
- Early Career Scientist Award—International Union of Geodesy and Geophysics
- Conferences and Workshops (keynote and invited presentations)



## DOC/NOAA/OAR

- CPO high quality peer review panels for grants
- CPO & OAR DEIA & EEO Committees
- NOAA Weather, Water and Climate Board
- NOAA Climate Team
- NOAA Water Team
- NOAA Modeling Team
- NOAA Service Delivery Team
- NOAA One Health Team
- NOAA Social Science Committee
- NOAA Regional Collaboration Team

## Other Federal Agencies

- USGCRP SGCR
- USGCRP Interagency Working Groups (8)
- White House IWG on Extreme Heat
- USDA Water Information & Services
- NSF, NASA Review Panels
- National Academy of Sciences Committees

## State/Local/Tribal Agencies

- Vermont Drought Task Force



## National Organizations

- AMS (Executive Council; Fellows Committee; Finance Committee; Enterprise Decision Support)
- AASC (Awards Committee)
- Research Programs (CLIVAR & GEWEX Panels; Water Research Foundation Panels)
- Field Campaigns and Citizen Science
- National Conferences and Workshops (Symposia; Sessions; Town Hall meetings)

## International Organizations

- WMO / World Climate Research Programme
- WMO / Global Framework for Climate Services
- North American Commission for Env. Coop.
- Great Lakes Water Quality Agreement
- Arctic Monitoring and Assessment Programme
- UNFCCC (e.g. COP 26)
- IPCC (e.g. WG Assessments)
- Global Heat Health Information Network

## Universities

- Adjunct Faculty (UMD; FSU; UNL; JHU; Catholic U.)
- M.S. and Ph.D. Committees
- Cooperative Institutes (CISSS EC; CIMMS)



# Recognition from Customers



**NORTH CAROLINA**  
*Environmental Quality*

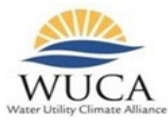
“On behalf of the Department of Environmental Quality and the State of North Carolina, I would like to thank you for your contributions toward shaping the NC Climate Risk Assessment and Resilience Plan.

***NC DEQ Secretary & current EPA Administrator  
Michael S. Regan***



“Above all else, you demonstrated the essence of “One NOAA”

***NOAA Administrator Rick Spinrad following COP26***

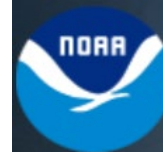


THE  
Water  
Research  
FOUNDATION



“[Western Water Assessment] has been instrumental in helping us identify and address climate change vulnerabilities”

***Levi Brekke, Acting Chief of Research and Development, U.S. Bureau of Reclamation***



National Oceanic and  
Atmospheric Administration  
U.S. Department of Commerce

“From my observations in Barbados, the ATOMIC project was a resounding success”

***RADM Tim Gallaudet, former Dep NOAA Administrator***

# CPO Organizational Leadership & Structure



ASD: Administrative Services Division  
CEE: Communication, Education and Engagement Division  
CSI: Climate and Societal Interactions Division  
ESSM: Earth System Science & Modeling Division  
IIT: Innovation, Integration and Transition Program  
NIDIS: National Integrated Drought Information System Program



# Scientific Leadership in the Climate Community



## DOC/NOAA/OAR

- Chair, NOAA Climate Team
- Member, Weather, Water and Climate Board
- Member, NOAA Modeling Board
- Lead, Precipitation Prediction Grand Challenge
- Co-Chair, Climate and Fisheries Initiative
- Federal Advisor, Arctic Report Card
- Task Force Lead (drought; model diagnostics; CMIP6; marine ecosystem; Cx sensitivity)
- OAR Climate Portfolio Steward
- Vice-chair, OAR DEI Committee
- Member, OAR Awards Committee
- Co-Lead, Lapenta Internship Program

## Other Federal Agencies

- Chair, USGCRP SGCR
- NOAA Principal, USGCRP
- Interagency Council for Advancing Meteorological Services (ICAMS) detail to OSTP & co-chair on Climate Services

## National Organizations

- Research Programs (CLIVAR; GEWEX)
- Field Campaigns and Citizen Science
- Editors / Reviewers (AMS Journals)
- Vice-Chair, AMS Board on Environment & Health
- President, Chinese American Oceans and Atmosphere Association
- Led "Filling the Gaps", with Water Research FDN
- National Conferences and Workshops (Symposia; Sessions; Town Hall meetings)
- National Academy of Sciences Committees

## International Organizations

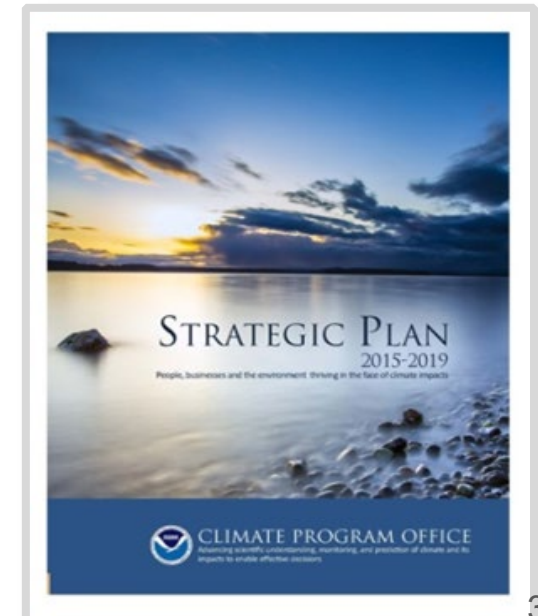
- U.S. Principal, Global Framework for Climate Services
- Chair, Arctic Monitoring and Assessment Programme
- Chapter leads, IPCC WGI and WGII
- Lead, Blue Carbon Inventory Project
- WMO Climate and Health Focal Point
- Intl Conferences and Workshops (Symposia; Sessions; Town Hall meetings)



# CPO Strategic and Annual Planning



- All CPO scientific objectives and strategies are aligned with OAR and NOAA Strategic Plans, OAR Implementation Plan and OAR Annual Operating Plan (AOP).
- All CPO AOP milestones are included in staff Performance Plans.
- All CPO AOP milestones are tracked and have been successfully completed over the past 5 years
- CPO exceeded all AOP targets and measures over the past 5 years.
- Mid-term and annual performance reviews for all CPO staff
- Effective tracking and managing of projects, including through NOAA Research & Development Database
- Involvement in OAR and NOAA budget planning
- Timely responses to all OAR & NOAA data calls (inc. reports to Congress)





# CPO Business Processes by the Numbers (FY2021)



- 235 grants processed and tracked
- \$79.6M dollars executed (budget executed above the 99% level with low carryover)
- 64 Cooperative Agreement / Cooperative Institute actions tracked
- 14 interagency transfers processed
- 19 contract actions processed
- 141 NOAA funds transfers executed
- 6 federal hiring packages completed

# CPO is a Blended Workforce



## Cooperative Institute Partners



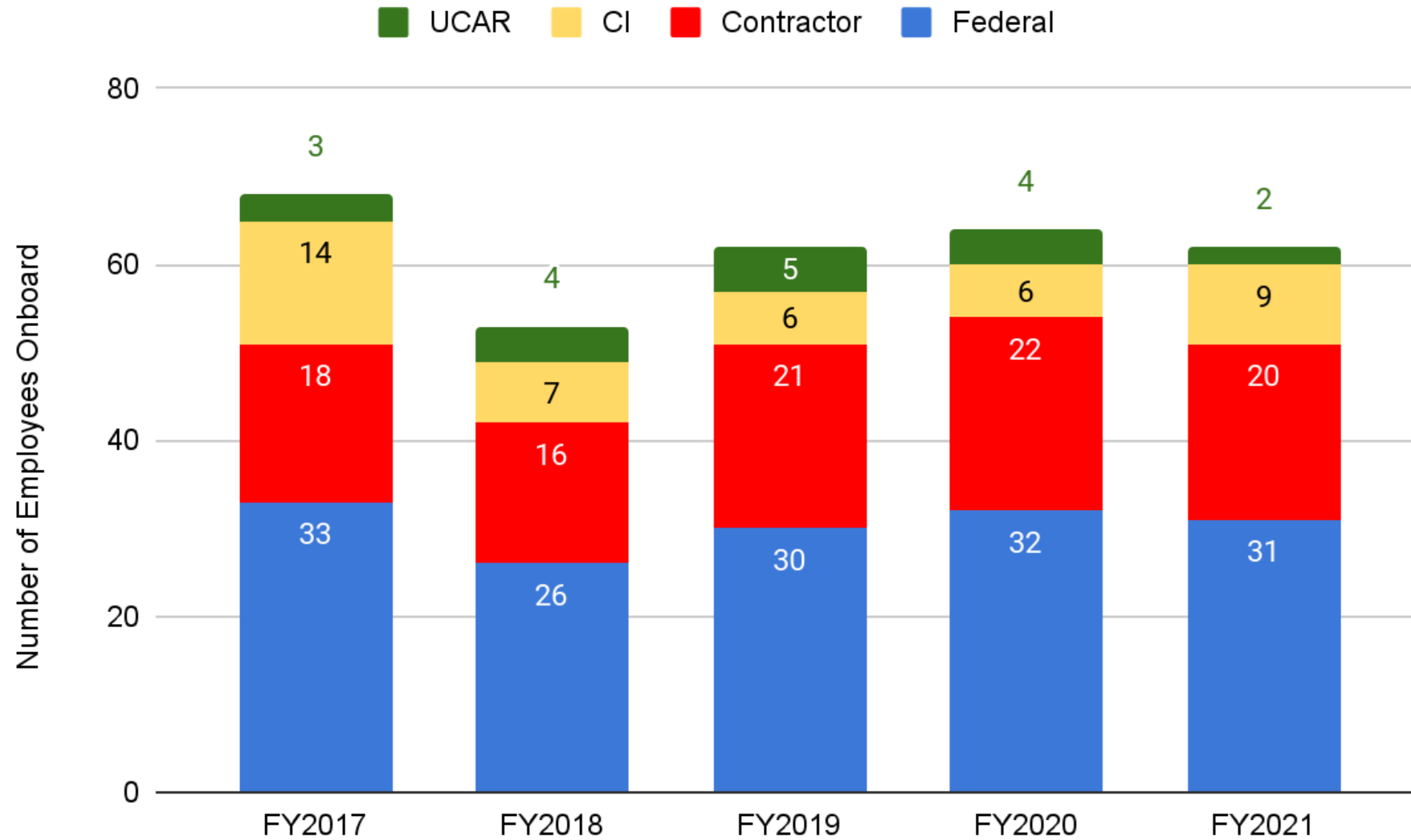
## Cooperative Agreements Partners



## Contractor Partners



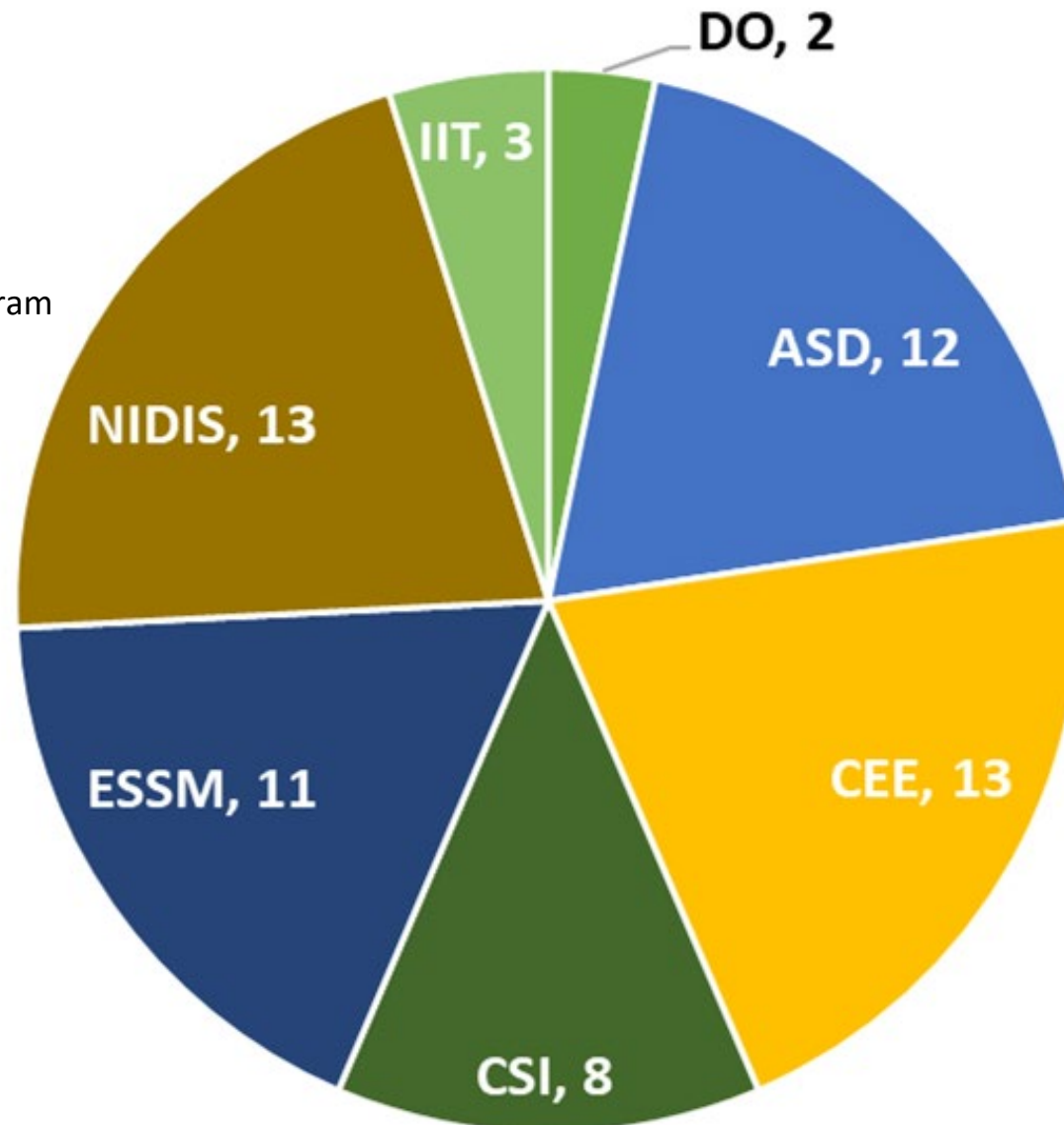
# CPO Workforce by Fiscal Year



# CPO Workforce by Division (FY2021)

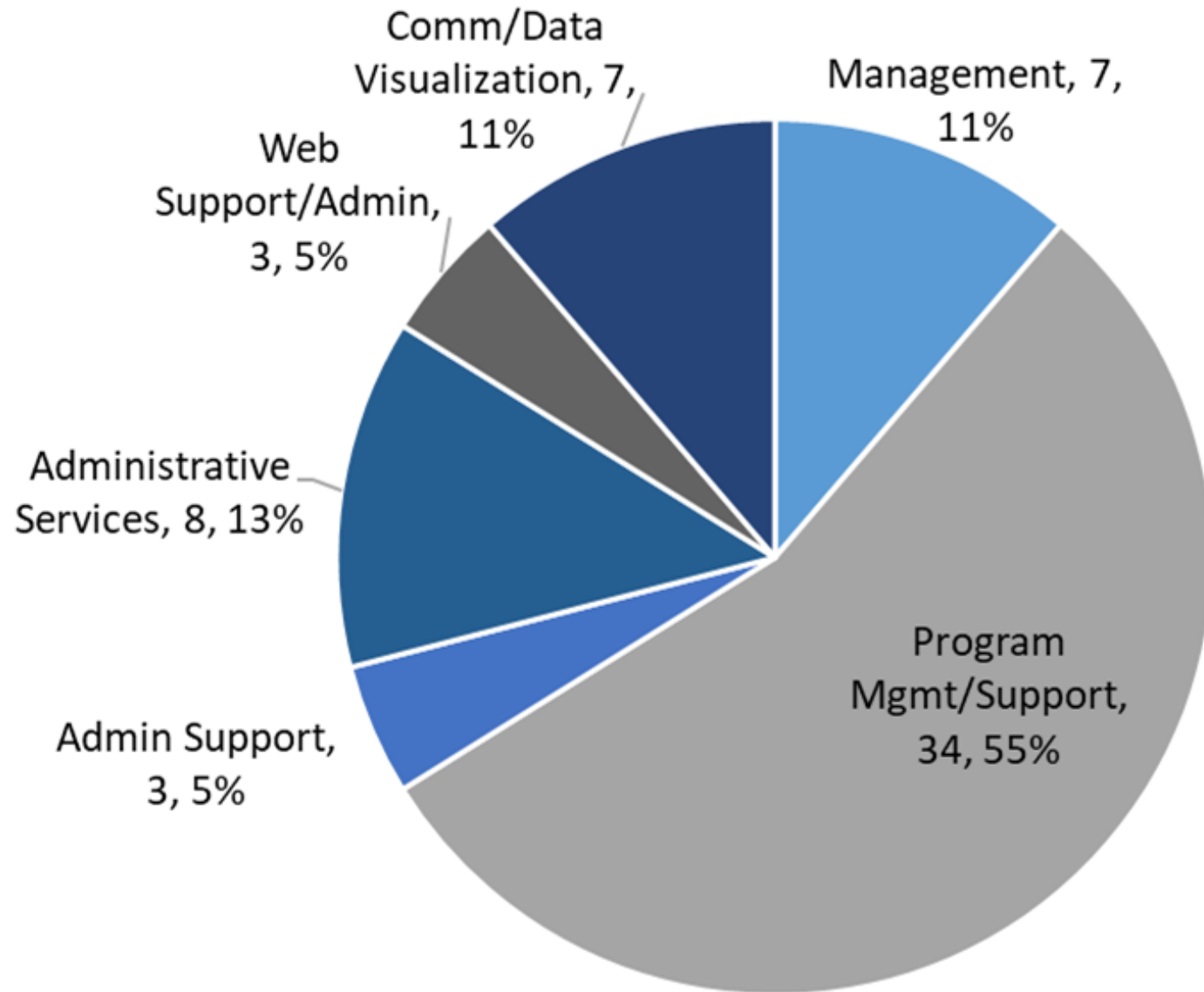


ASD: Administrative Services Division  
CEE: Communication, Education and Engagement Division  
CSI: Climate and Societal Interactions Division  
DO: Directors Office  
ESSM: Earth System Science & Modeling Division  
IIT: Innovation, Integration and Transition Program  
NIDIS: National Integrated Drought Information System Program



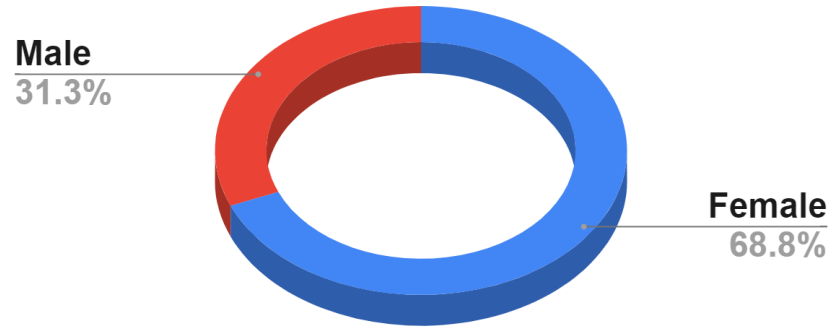


# CPO Workforce by Function (FY2021)

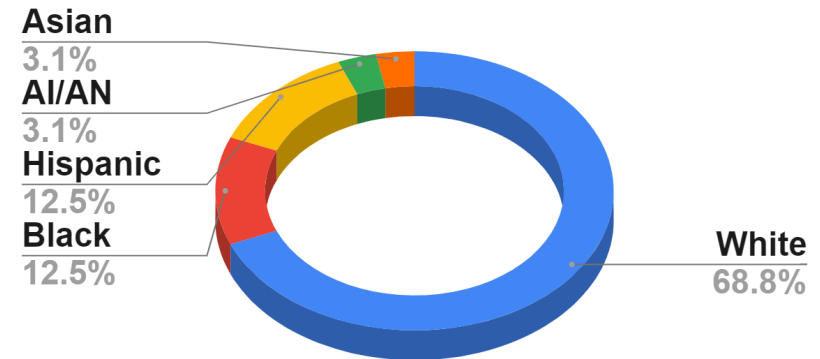


# CPO Federal Staff Diversity Profile (FY21)

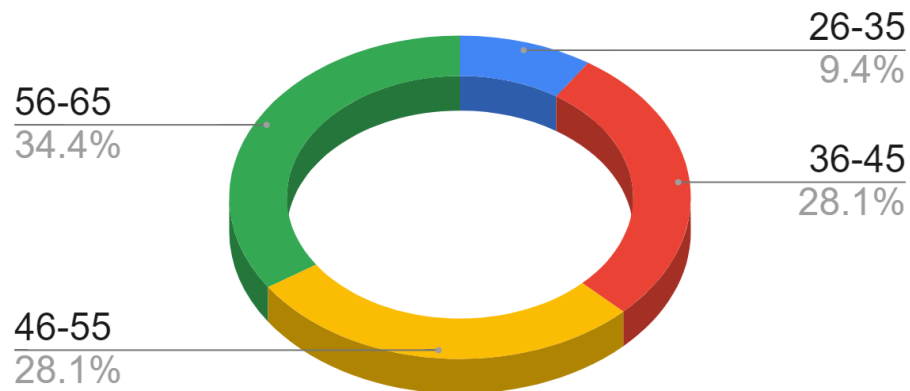
## Gender



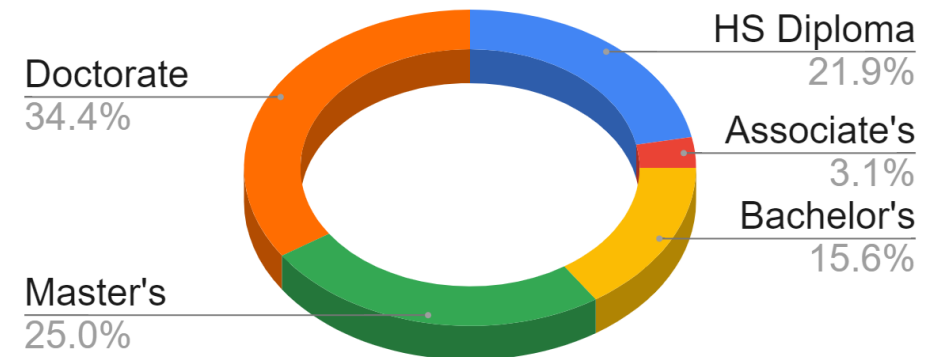
## Race



## Age Group

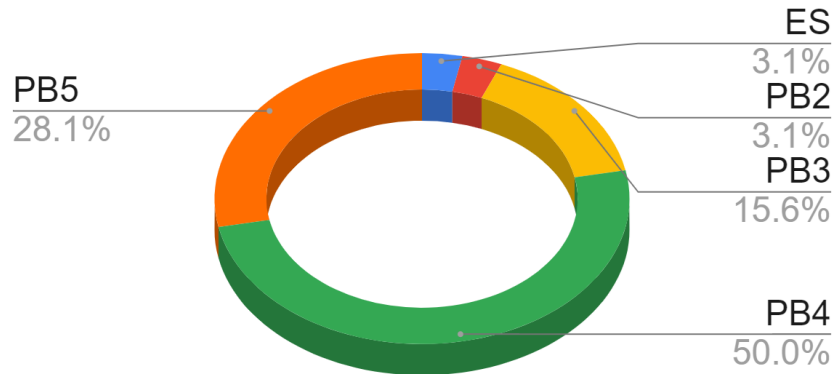


## Educational Level

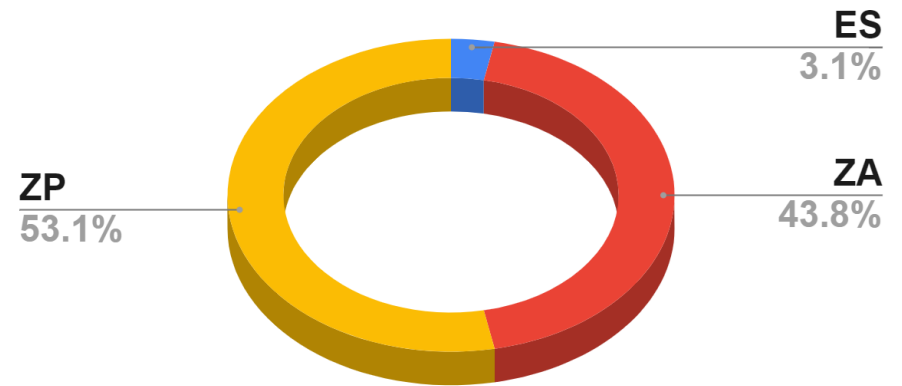


# CPO Federal Staff Profile (FY21)

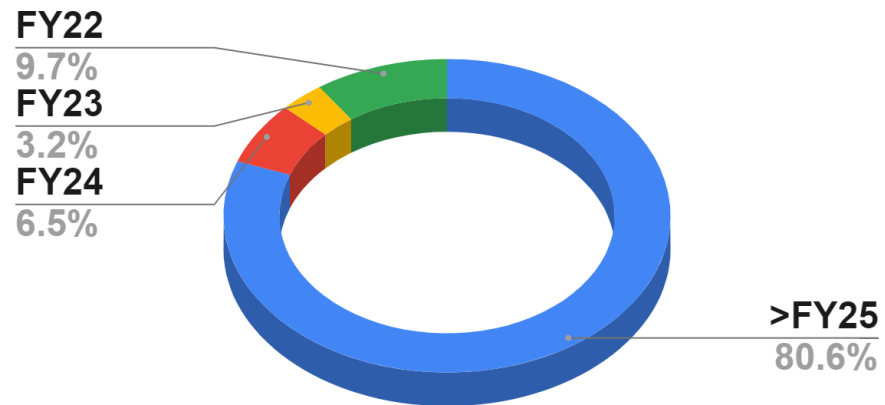
## Pay Band Level



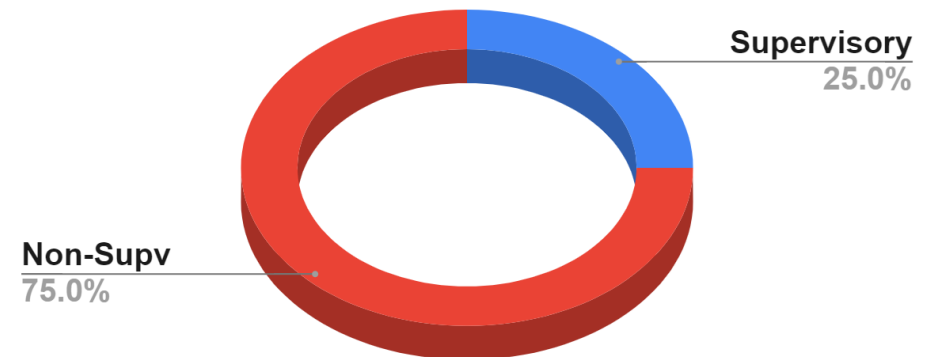
## Pay Plan



## Retirement Eligibility\*



## Supervisory Status



\*Based on years of service

# Diversity, Equity, Inclusion, and Accessibility

**VISION: CPO reflects and leverages the talent and diversity of its employees to ensure people, businesses and the environment continue thriving in the face of climate impacts.**



**CPO Gives Back  
Winter 2021-22**

The DEIA Working Group has connected with Interfaith Works via their Progress Place Shelter in Silver Spring, MD to provide toiletries and personal items for their 21 permanent, formerly homeless residents.

Visit Interfaith Works website by scanning here

We also have included travel toiletry packs for those currently displaced men and women who utilize Progress Place's shelter.

Please scan the QR code to the right using your phone's camera to view the Amazon wish list and donate. All purchases will be delivered directly to Progress Place.

**CPO CLIMATE PROGRAM OFFICE**  
ADVANCING SCIENTIFIC UNDERSTANDING OF CLIMATE. IMPROVING SOCIETY'S ABILITY TO PLAN AND RESPOND.

If you have any questions or concerns, please reach out to Regina Cain or Sandy Blizzard

Visit us at [cpo.noaa.gov](http://cpo.noaa.gov)  
1315 East West Highway Silver Spring, MD 20910

**CPO Gives Back:  
Winter 2021-22**

**KIPP!  
UJIMA  
VILLAGE ACADEMY**  
Public Charter School  
Baltimore, MD

The DEIA Working Group has connected with Kipp Ujima Village Academy in Baltimore, MD to help their students stay safe and stocked with supplies this winter!

The teachers of the 8th grade math team have compiled a wish list of various school supplies and sanitizing items that would be of benefit to their students.

Please scan the orange QR code below using your phone's camera to view the Amazon wish list and donate items. All purchases will be delivered directly to the school for student's immediate access.

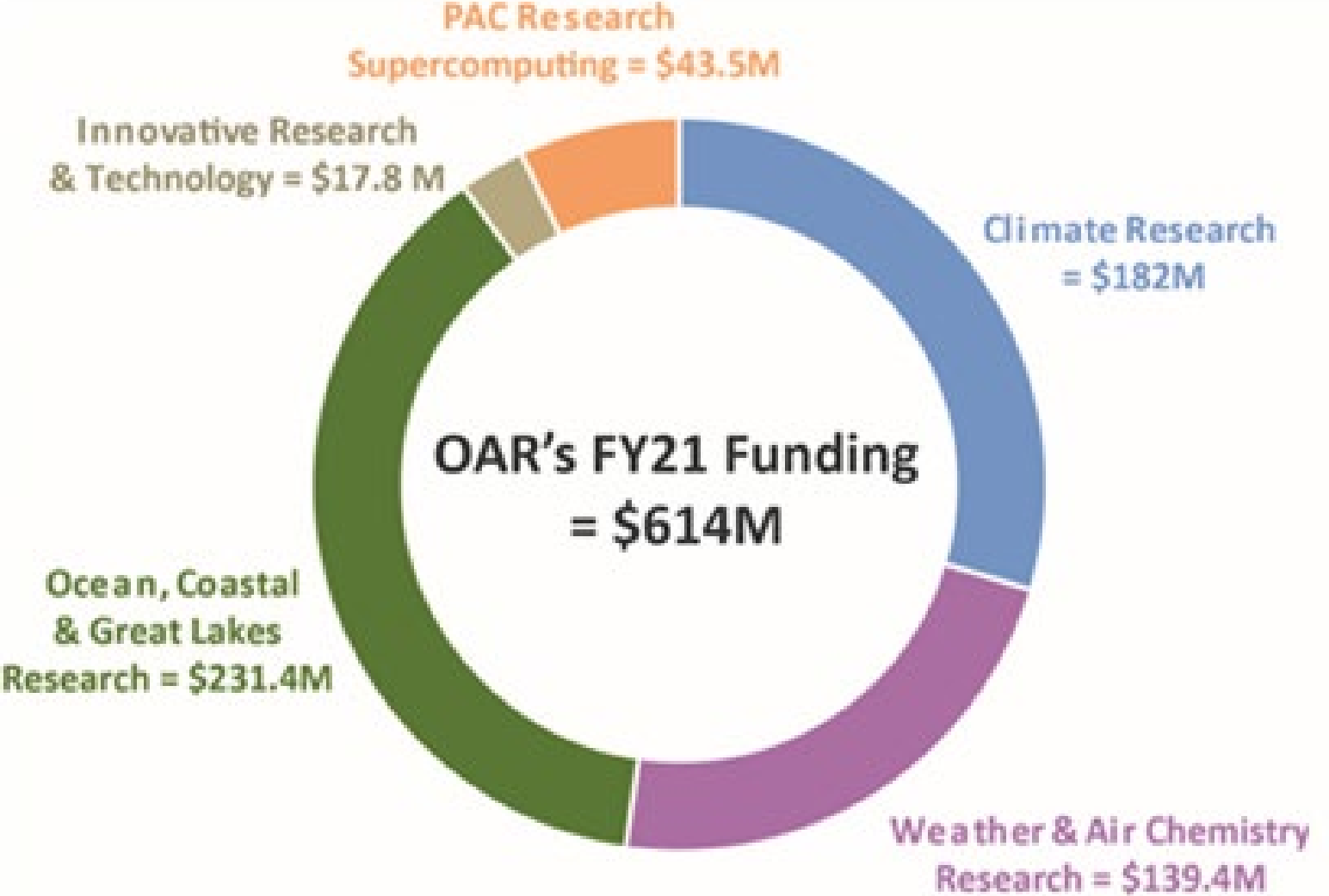
**Amazon Wish List**

**CPO CLIMATE PROGRAM OFFICE**  
ADVANCING SCIENTIFIC UNDERSTANDING OF CLIMATE. IMPROVING SOCIETY'S ABILITY TO PLAN AND RESPOND.

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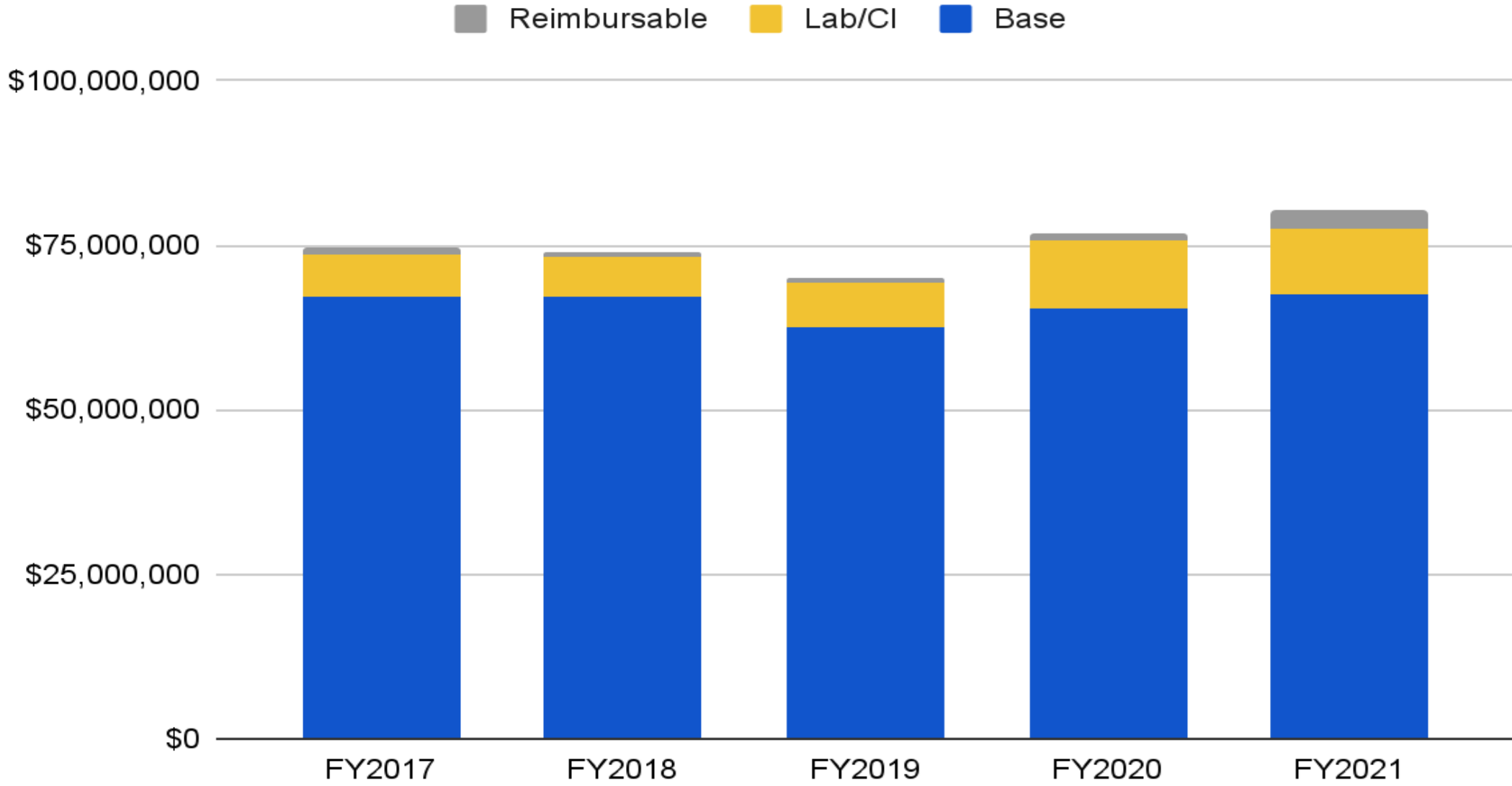
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# OAR FY 21 Budget





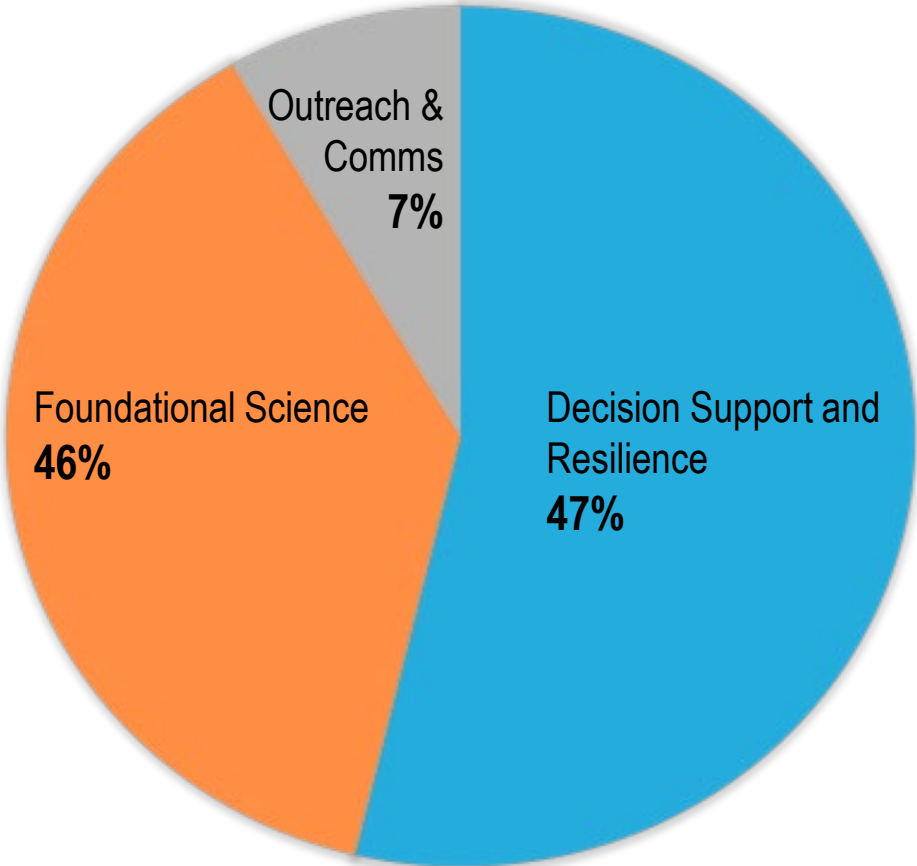
# CPO Budget



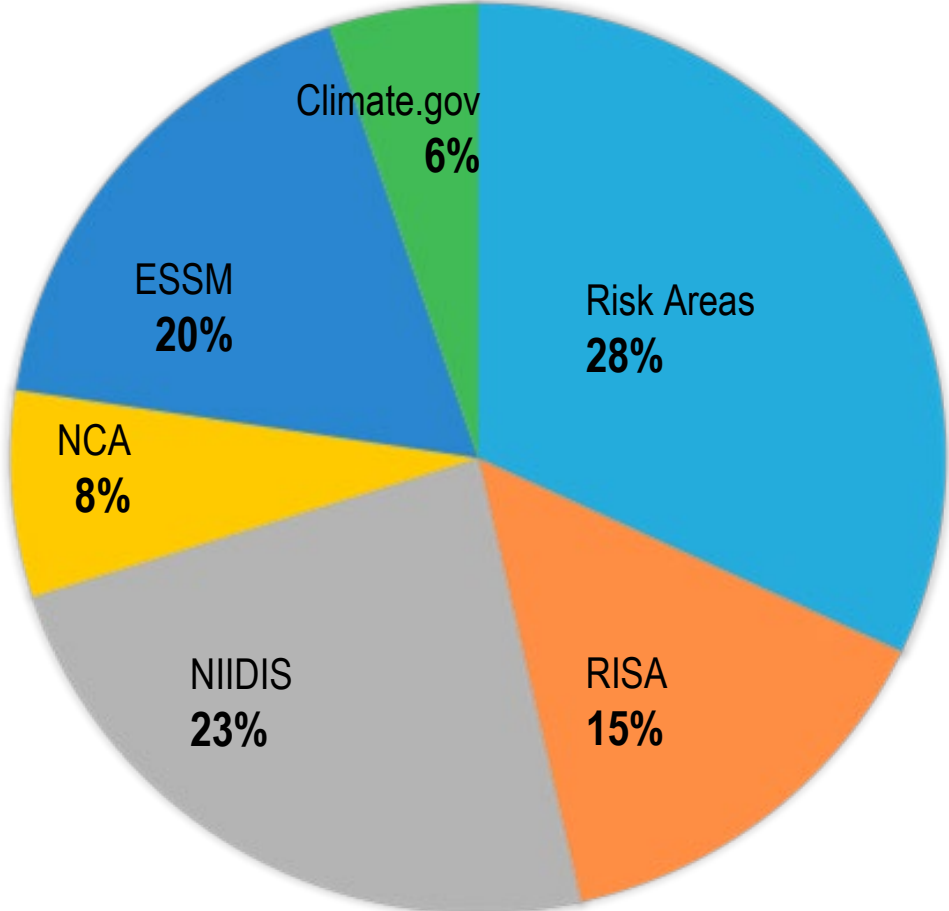
# CPO FY21 Expenditures (% of total portfolio)



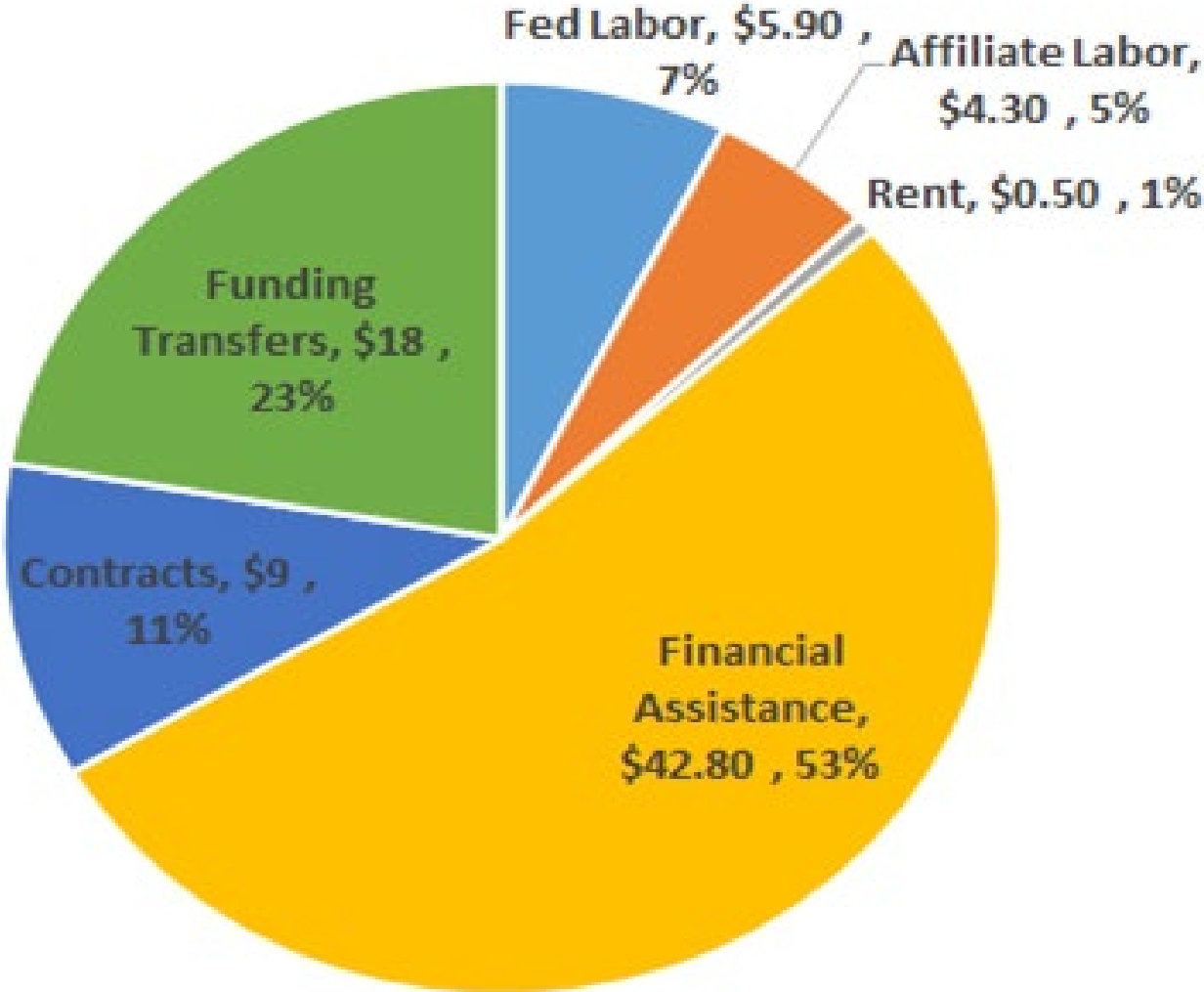
### Major Functions



### Flagship Programs



# CPO FY21 Expenditures by Category (\$M)



## People

- Incorporate diversity, equity and inclusion into CPO core values & culture
- Ensure fair, inclusive, and transparent decision making
- Focus on employee performance, training, and recognition

## Research

- Advance climate science to improve understanding of Earth's changing climate.
- Research to advance understanding of the societal impacts of climate change
- Improve coordination / collaboration to ensure research benefits NOAA & the Nation

## Communication

- Increase public access to climate-related information for planning and resilience activities, coupled with capacity building and training.
- Increase access to and support the use of data, information, and services;

How should CPO adapt to changes in the operating landscape that include:

- new sources of funding for climate research, heightened participation, and increased commercial presence that are changing “who” is executing both basic and applied research?
- a workforce with interdisciplinary skill sets which will be increasingly valuable and sought by high-paying commercial organizations?
- expectations of immediacy that continue to put a strain on long-term science and innovation and that increase the importance of how the value of the science is communicated?
- increasing demand for climate information & services to tackle the climate crisis?





Climate Program Office

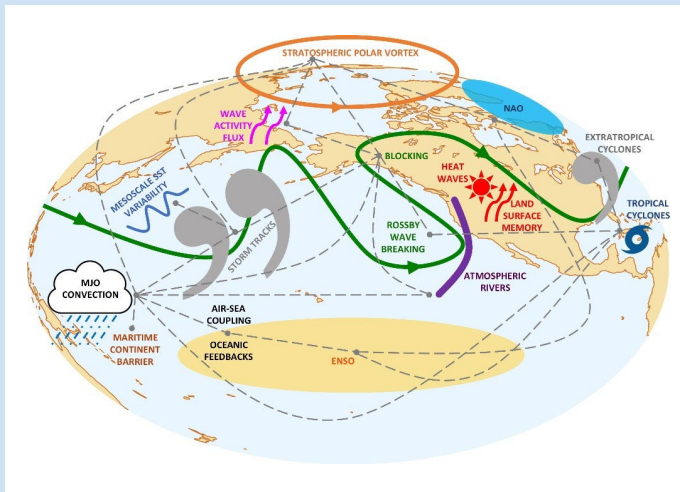
# Activity Areas for the Review

# Activity Area 1. Climate Science / Earth System Science and Modeling



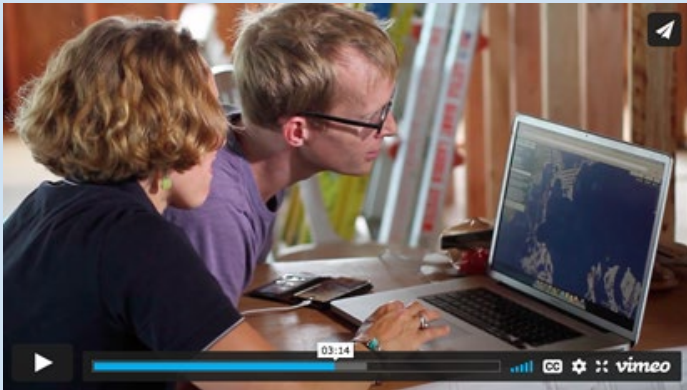
**Advance understanding, modeling, prediction, and projection of the Earth's atmosphere, ocean, land, and cryosphere as an integrated system, including:**

- Process studies and field campaigns
- Earth system observations and monitoring
- Predictability studies of climate phenomena
- Testing for transitions of R2O and R2A
- Improving model representations of key processes and prediction technologies
- Lead national assessments
- Applying Earth system and climate models to societally-relevant challenges
- Projecting future climate variability & change
- Coordinating joint federal research activities



Science Themes

# Activity Area 2. Climate and Societal Interactions



Science Themes



## Support societally relevant and interdisciplinary climate science focused on adaptation to reduce vulnerability and risk

- Identify opportunities for use of climate knowledge and information
- Enhance community resilience
- Connect innovative science to preparedness, adaptation and resilience challenges
- Lead regional and national assessments
- Support research that includes the private sector, NGOs, interdisciplinary teams and the social sciences at large

# Activity Area 3. Communication, Education, & Engagement

- Promote awareness, appreciation, and support for CPO's investments in climate science and services
- Promote public climate literacy and help people find and use NOAA's maps, data, and information services through managing and maintaining [Climate.gov](https://climate.gov)
- Coordinate and support interagency efforts to help U.S. communities & businesses understand & manage their climate-related risks & opportunities, including building resilience to climate-related hazards through the U.S. Climate Resilience Toolkit ([CRT](https://climate.gov/resilience))



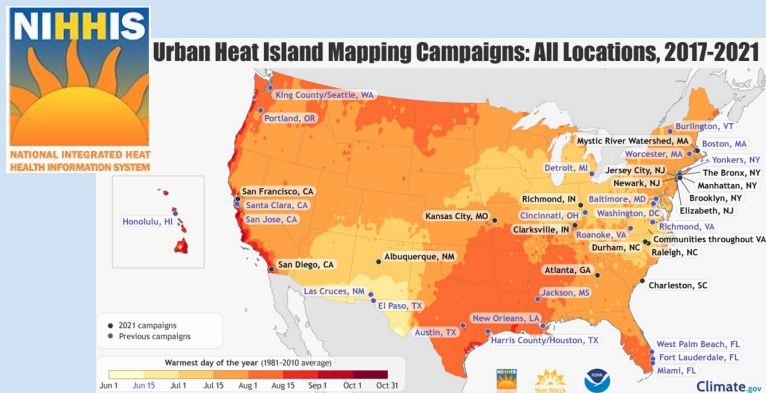
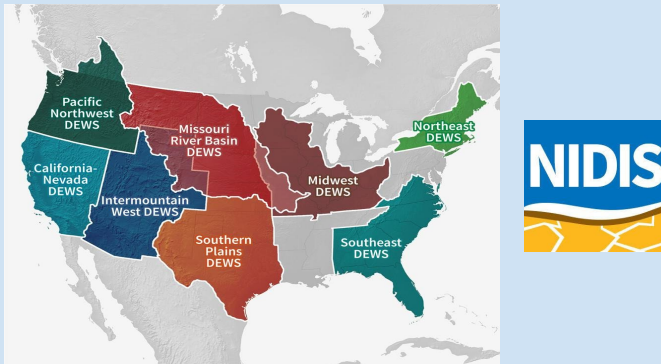
Science Themes

# Activity Area 4. Integrated Information Systems (IIS)



CPO is home to two interagency-driven IIS's that are responsive to the increasing societal demand for climate information that is actionable, accessible, and equitable:

- The National Integrated Drought Information System ([NIDIS](#)), established by Public Law (authorized in 2006; 2014 & 2019 updates), is mandated to establish a national drought early warning system that helps the nation to proactively understand and manage drought risks and impacts.
- The National Integrated Heat Health Information System ([NIHHIS](#)), which is emerging and getting Congressional attention, seeks to improve Federal, state and local planning, preparedness and response for extreme heat and its health impacts.





# Activity Area 4. Climate Risk Areas Initiative



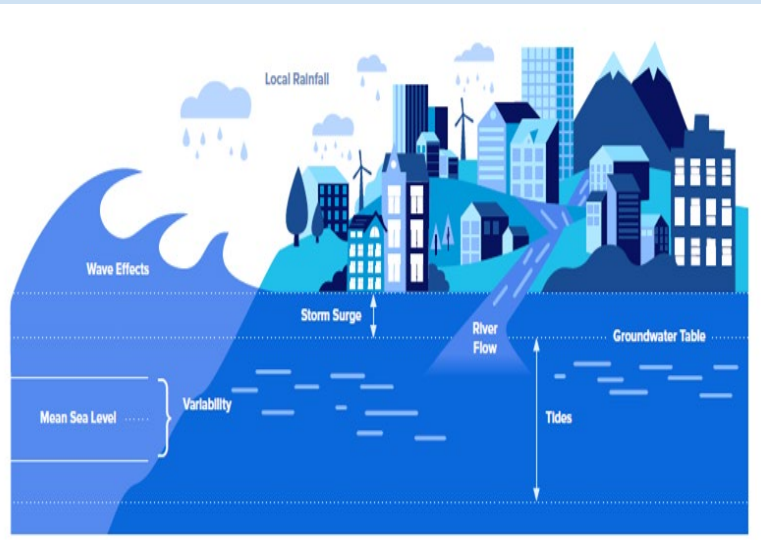
Goal: advance climate science and reduce impacts in key societal climate risk areas for which NOAA's mission is well aligned.

The climate risk areas are currently:

- Coastal Inundation
- Marine Ecosystems
- Water Resources, and
- Extreme Heat

Other motivations:

- increase cohesion across CPO
- strengthen partnerships inside and outside of NOAA



# Activity Area 5. Portfolio Management, Administration, & Organizational Excellence



CPO *aligns* its portfolio against the science and service needs of NOAA, external stakeholders and partners, and *balances* its support across the R&D continuum from fundamental to applied R&D and research transitions to operations and applications.

- Ensure portfolio balance of competitively-based & directed research funding
- Implement budget formulation and execution, grants management, human resources, and property management
- Manage personnel actions, responses to grants and budget inquiries, domestic and international travel support, space planning, facilities support, and acquisition management
- Provide research and training opportunities to students and early career professionals at all levels
- Promote equal employment opportunities to an increasingly diverse talent pool in key mission areas
- Foster an inclusive office environment that embraces the diversity of its employees



Climate Program Office

# Structure of the CPO 2022 Review

## Prior to the Review

- Review the overview videos for each Activity Area

## During the week of the Review

- A Lead-off presentation & discussion session with OAR leadership, portfolio stewards
- Interactive Q&A on the pre-recorded CPO Overview presentation
- An introduction and in-depth discussion of each Activity Area
- Closed Review Panel - Activity Area Stakeholder Sessions
- Discussion with NOAA Line Office Representatives
- Review Panel discussion and writing time each afternoon
- All Review materials can be found on the Review webpage: <https://cpo.noaa.gov/>



NOAA Climate Program Office

Thank You!