

Enabling Exploration

Frank Cantelas

Acting Deputy Director



Implementation Plan

1. Make discoveries of scientific, economic, and cultural value
2. Promote technological innovation to advance ocean exploration
3. Provide public access to data and information
4. Expand the national ocean exploration program through partnerships
5. Encourage the next generation of ocean explorer, scientists and engineers
6. Organizational excellence - not in current Strategic Plan

Example of Success Indicators

1.0 GOAL: Make discoveries of scientific, economic, and cultural value, with priority given to US EEZ/ECS

1.1 OBJECTIVE: Map Ocean Basin Features of Interest

1.1.A SUCCESS INDICATOR: Acquired sonar-based bathymetry at a minimum resolution of 100 meters for 100 percent coverage of areas greater than 200 meters depth within the U.S. EEZ by 2013

1.1.B SUCCESS INDICATOR: Acquired multibeam backscatter in support benthic habitat and water column characterization in areas greater than 200 meters depth within the U.S. EEZ.

1.1.1 ACTIONS: Develop and execute on a comprehensive mapping strategy to identify and fill gaps in unmapped areas

1.1.2 ACTIONS: Produce comprehensive multibeam and seafloor backscatter coverage maps

1.1.3 ACTIONS: Establish internally consistent tracking and reporting standards, methodologies to track and report progress

OER Performance Measures

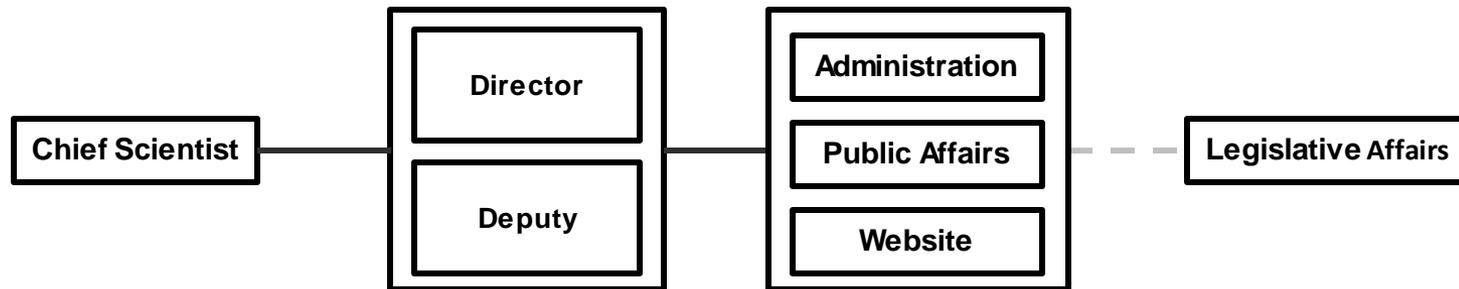
- Annual number of ocean exploration expeditions
- Annual number of products aimed to engage diverse audiences to enhance understanding of ocean science literacy
- Number of educators in professional development programs
- Percent of time quality controlled data from NOAA Ship *Okeanos Explorer* are delivered to a NOAA data center within 90 days of completion of associated expedition

OER Performance Measures (GPRA)

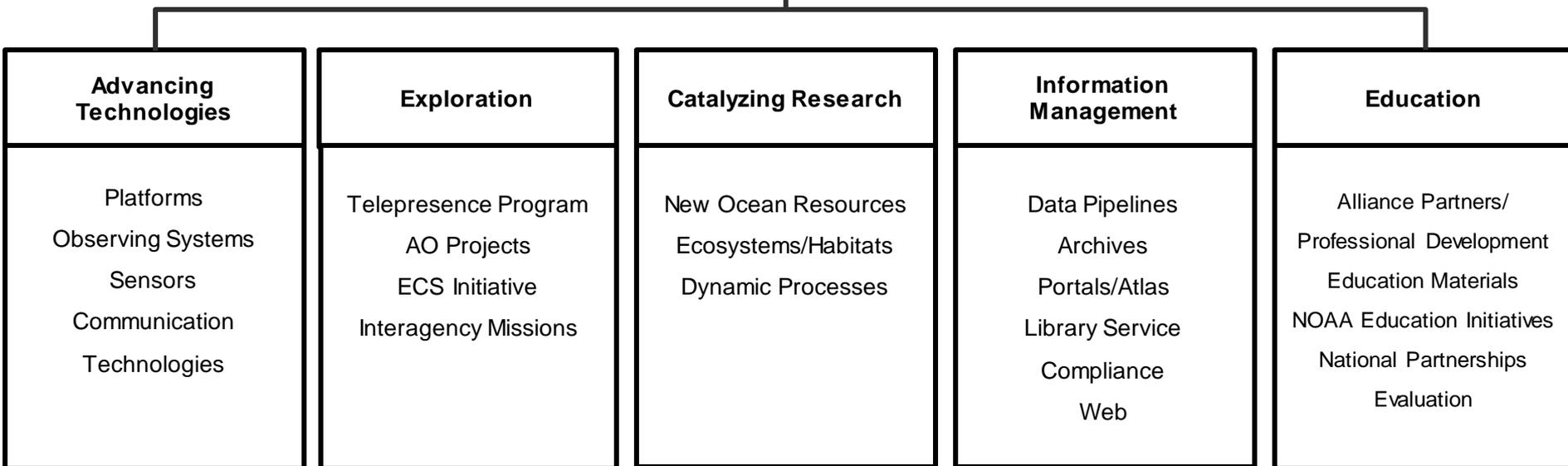
Government Performance and Results Act (GPRA) Measures:

- Cumulative percent of deepwater ocean (>200m) U.S. Exclusive Economic Zone mapped (OER)
- Annual number of sites characterized in the U.S. Exclusive Economic Zone
- R2A Index: Annual number of research and development products transitioned to a new stage(s) (development, demonstration, or application)
- Number of publications produced as a result of OER supported expeditions

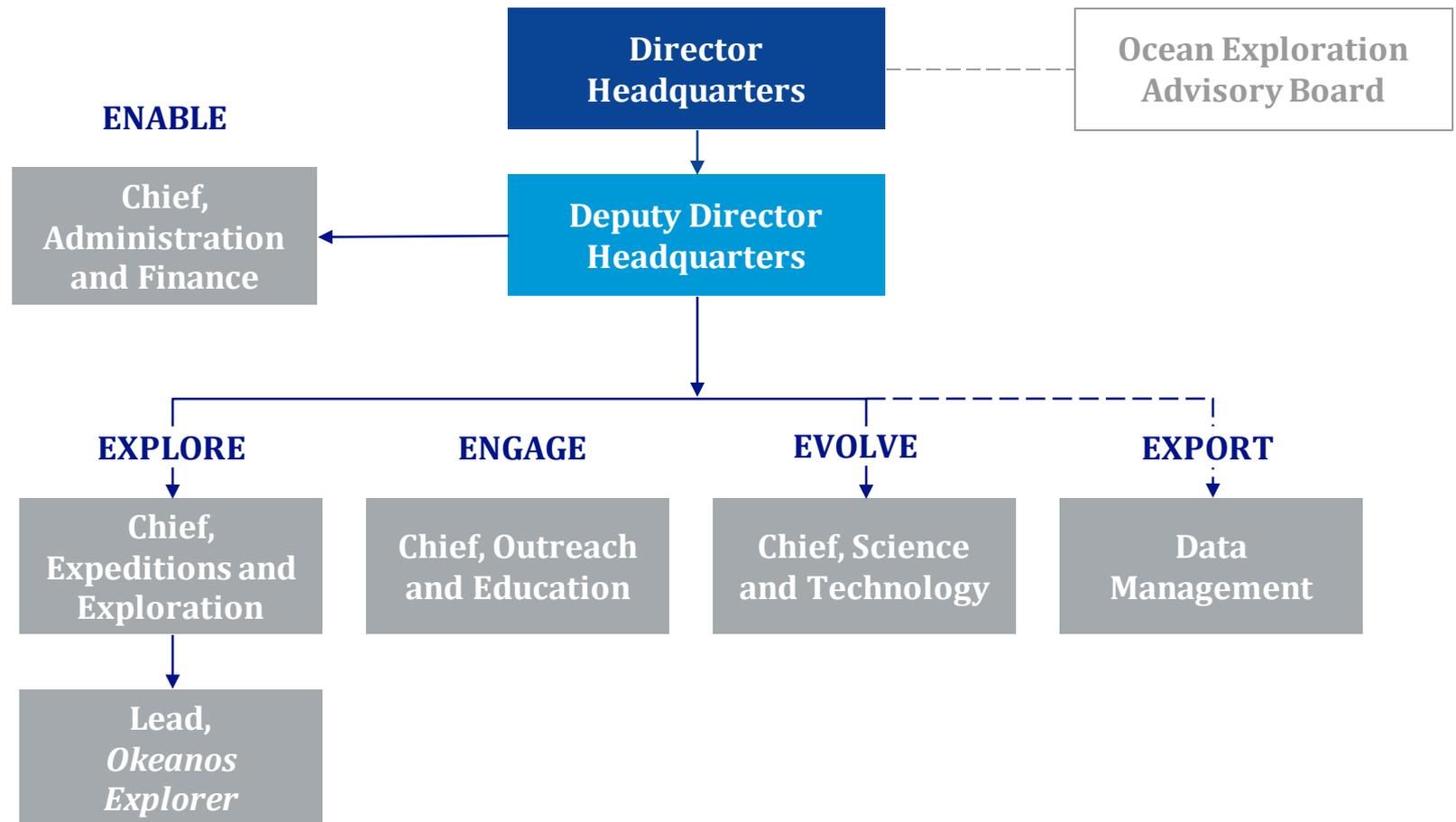
OER Office Structure (ca. 2013)



Product Lines of Business



OER Office Structure (2015-Now)



Mechanisms for OER Staffing

Mechanism	Current # of Staff
Federal hires (multiple types)	16
Contracts	20
Cooperative agreements (UCAR)	2
Intergovernmental personnel agreements (IPA)	2
Sea Grant Knauss Fellowship Program	1
Presidential Management Fellows Program (PMF)	1
Details (e.g., NOAA Leadership Competencies Development Program, NOAA Rotational Assignment Program)	1
NOAA Corps	1
Cooperative Institutes	--

How OER Enables Exploration

- Grants and cooperative agreements
 - Annual competitive grants/Broad area announcement
 - Cooperative institutes
- Contracts
- Agreements
 - MOU/MOA
 - Cooperative Research & Development Agreements
- OMAO fleet allocation process
 - NOAA Ship *Okeanos Explorer* and other NOAA platforms
- Partnerships
 - Ocean Exploration Trust
 - Global Foundation for Ocean Exploration
- Alliances
 - Schmidt Ocean Institute

2001-2020 Budget History of the NOAA Office of Ocean Exploration & Research



President's Request



House

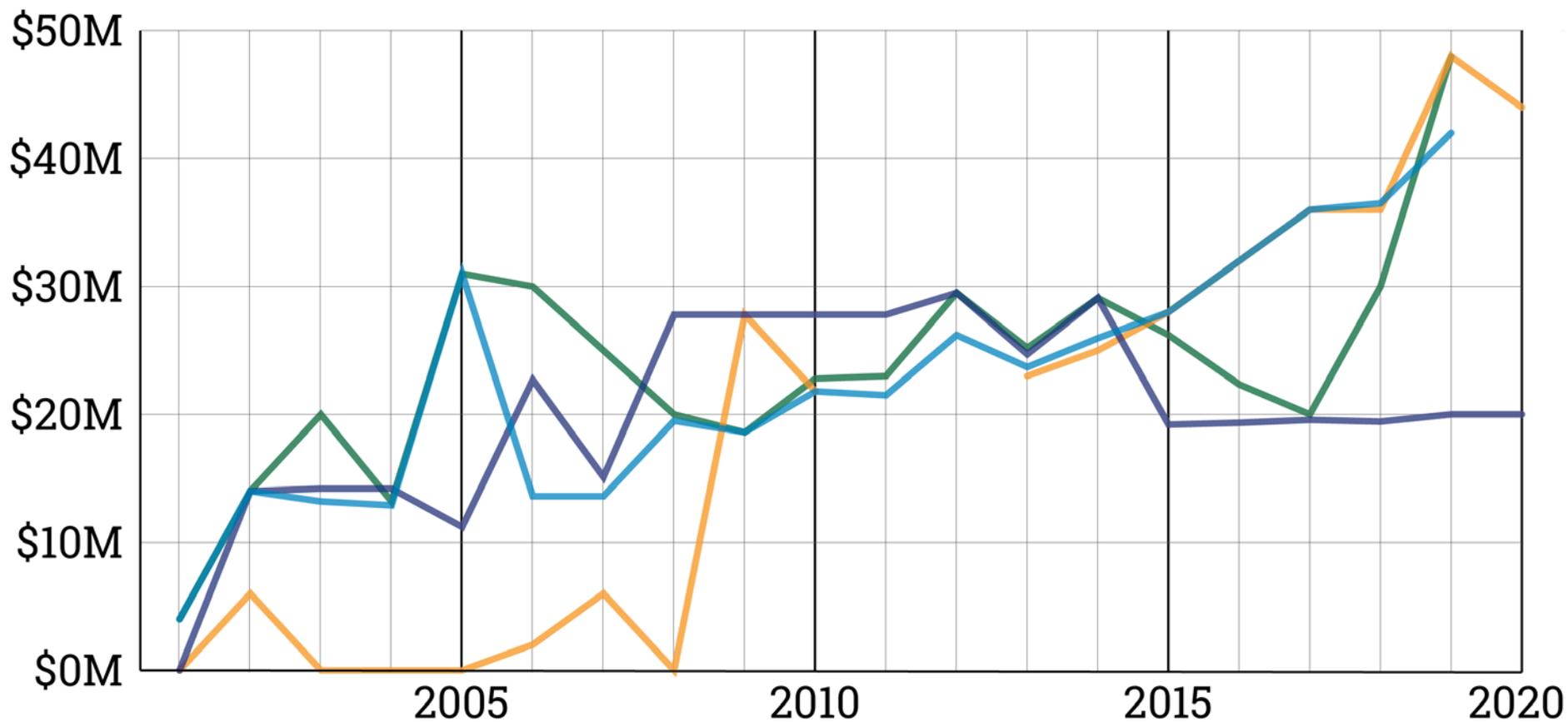


Senate



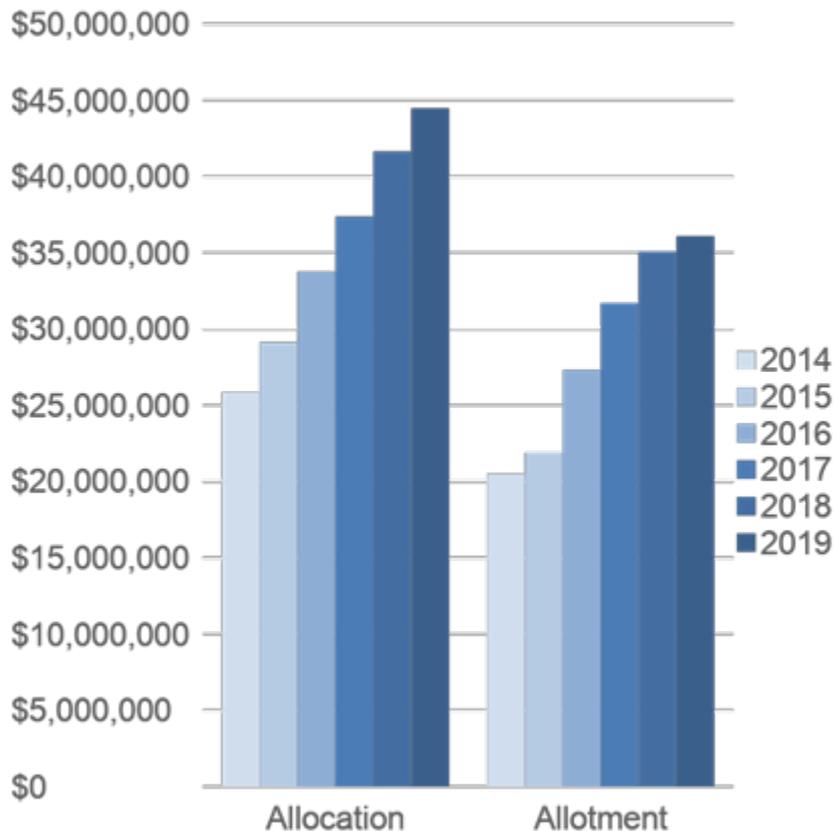
Ocean Exploration
and Research

Enacted



OER Budget FY2014-2019

Variance



Allocation vs Allotment

FY2014 \$25,870,384 vs \$20,501,025

FY2015 \$29,136,885 vs \$21,908,732

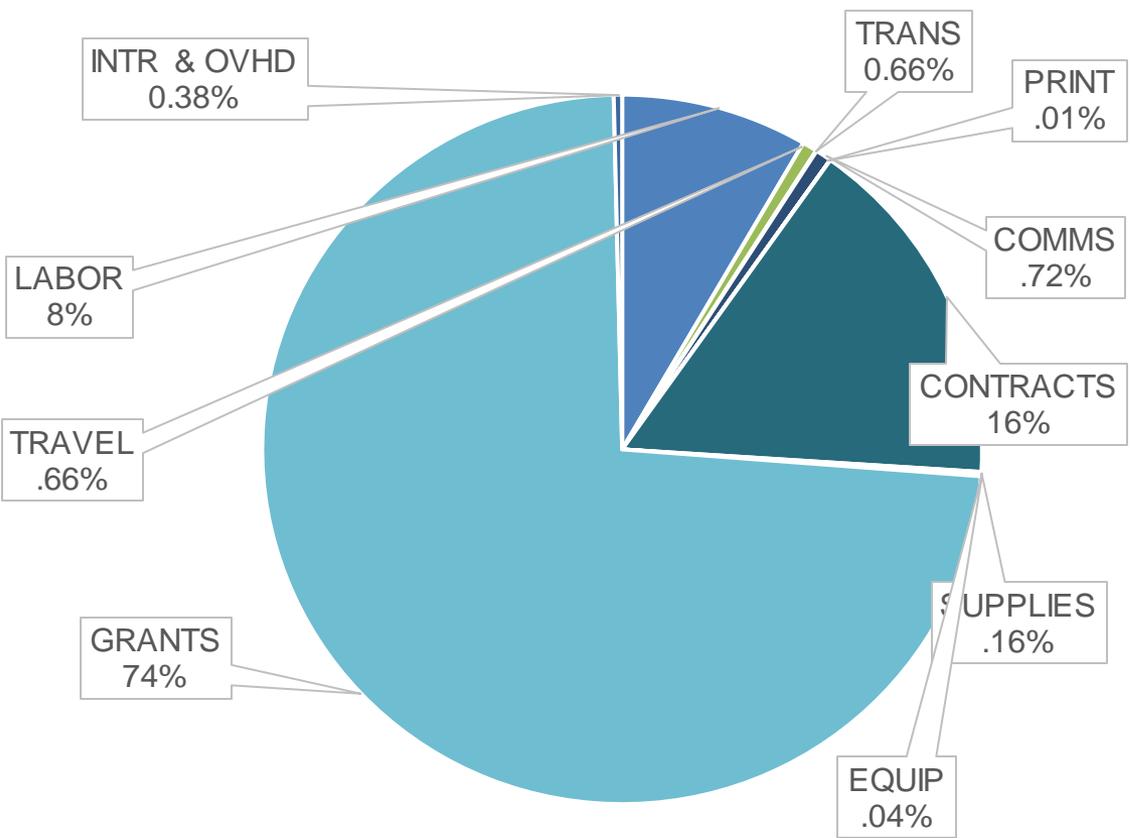
FY2016 \$27,318,944 vs \$33,765,129

FY2017 \$37,367,956 vs \$31,715,083

FY2018 \$41,638,173 vs \$35,078,333

FY2019 \$44,480,279 vs \$36,097,964

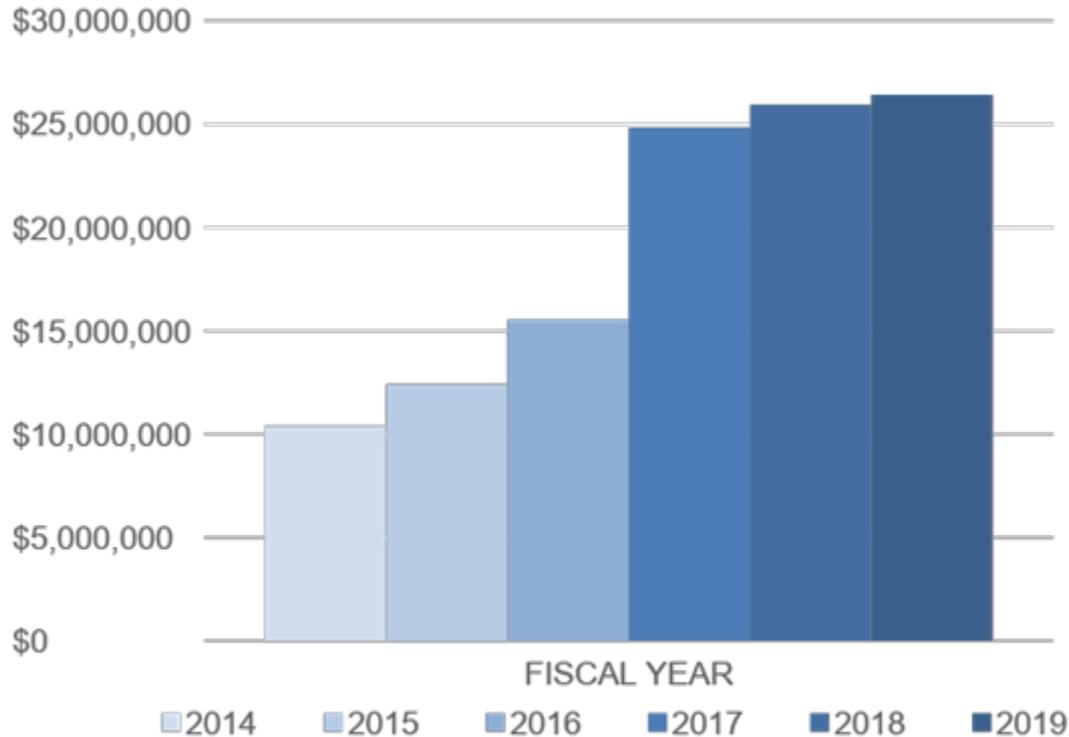
OER FY 2019 Funds Distribution



LABOR	8.4%
TRAVEL	0.66%
TRANS.	0.02%
COMMS	0.72%
PRINT	0.01%
CONTRACTS	16.19%
SUPPLIES	0.16%
EQUIPMENT	0.04%
GRANTS	73.41%
I & O	0.38%

OER Grants Growth Trends

Grants Execution



FY2014 \$10,408,381

FY2015 \$12,431,483

FY2016 \$15,545,480

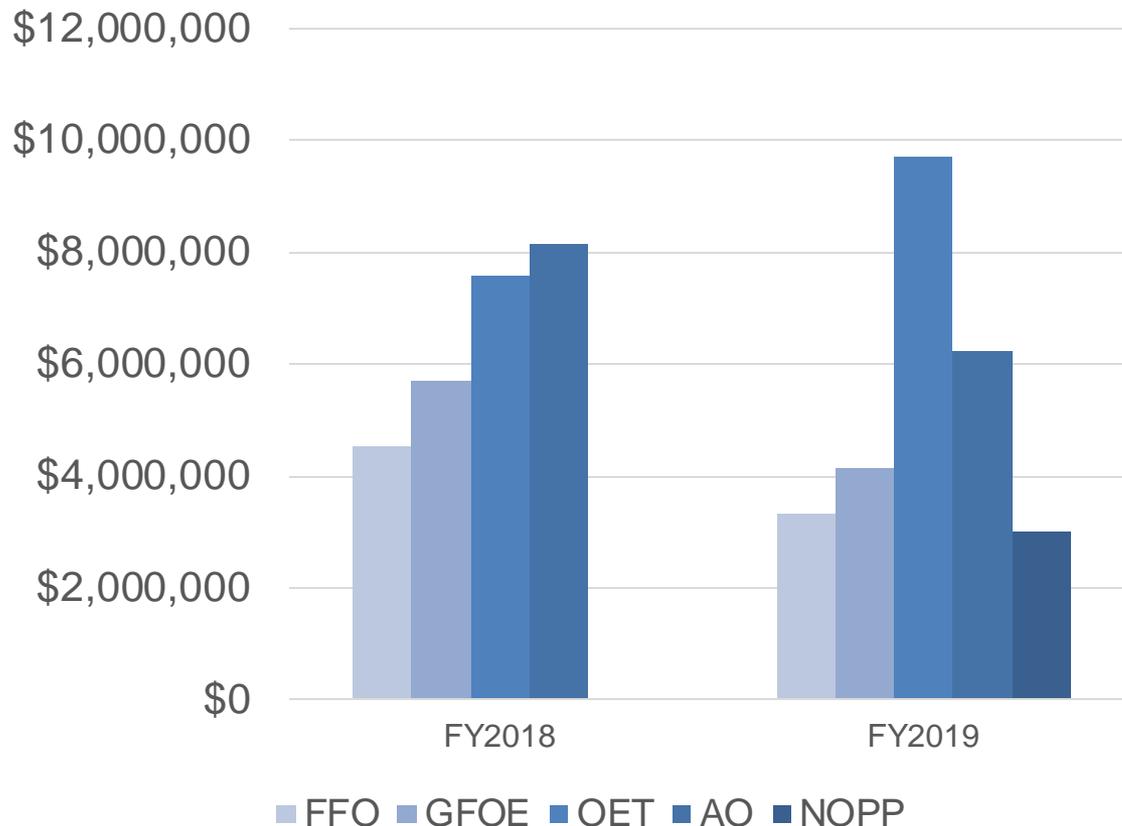
FY2017 \$24,824,574

FY2018 \$25,930,763

FY2019 \$26,429,663

OER 2018-2019 Grants Distribution

Grants Distribution



2018

FFO \$4,519,928

GFOE \$5,685,000

OET \$7,580,000

All Others \$8,145,835

2019

FFO \$3,326,239

GFOE \$4,151,665

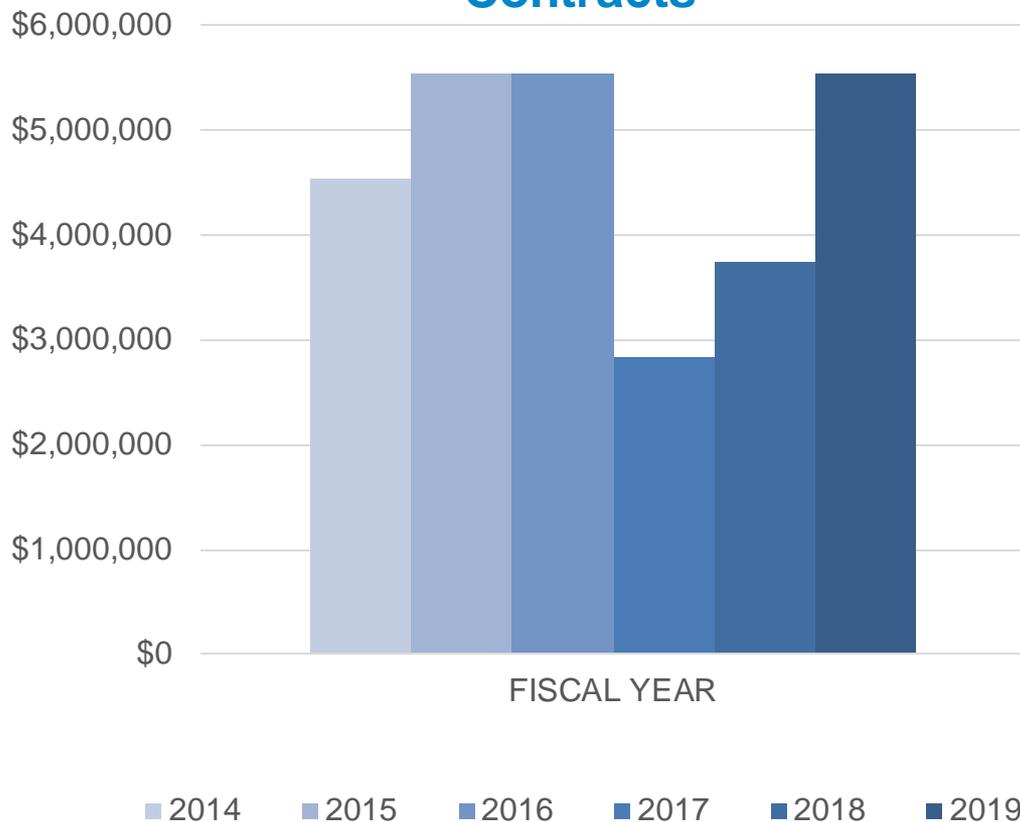
NOPP \$2,999,800

OET \$9,708,000

All Others \$6,243,959

OER Contracts

Contracts



FY2014 \$4,544,580

FY2015 \$5,538,194

FY2016 \$5,544,048

FY2017 \$2,834,672

FY2018 \$3,753,033

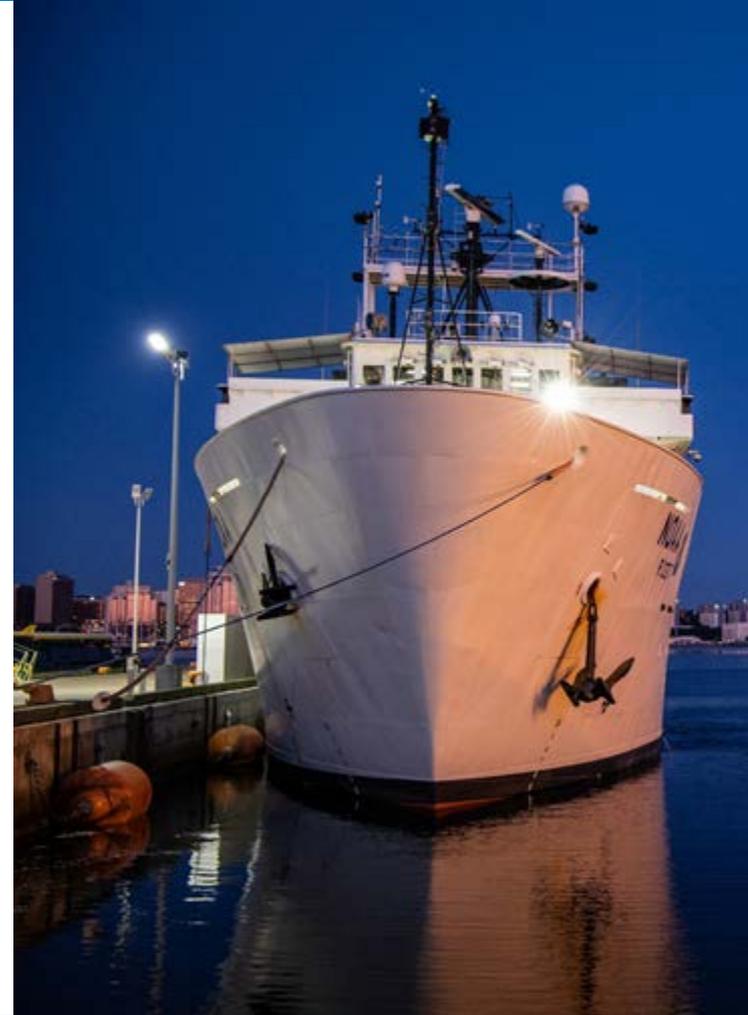
FY2019 \$5,541,529

OER Internal Controls

- Annual review of processes and procedures
 - Budget execution, grants, credit cards, property
- Periodic audits of Administrative team's expenditures
 - Example: Audit of internal controls for grants
 - Resulting review of the grant process and internal financial controls resulted in in NO findings and NO recommendations
- New process to conduct financial and scientific audits of grant recipients starting with institutions with large, multiyear awards

Looking to OER's Future

- NOAA Ship *Okeanos Explorer* end of life
- Ocean Exploration Cooperative Institute
- New business models
 - New technologies
- Growing staff



OceanExplorer.NOAA.gov



**Ocean Exploration
and Research**

