Southern Association of Marine Laboratories
Annual Meeting
University of Texas Marine Science Institute
Port Aransas, Texas

May 2016

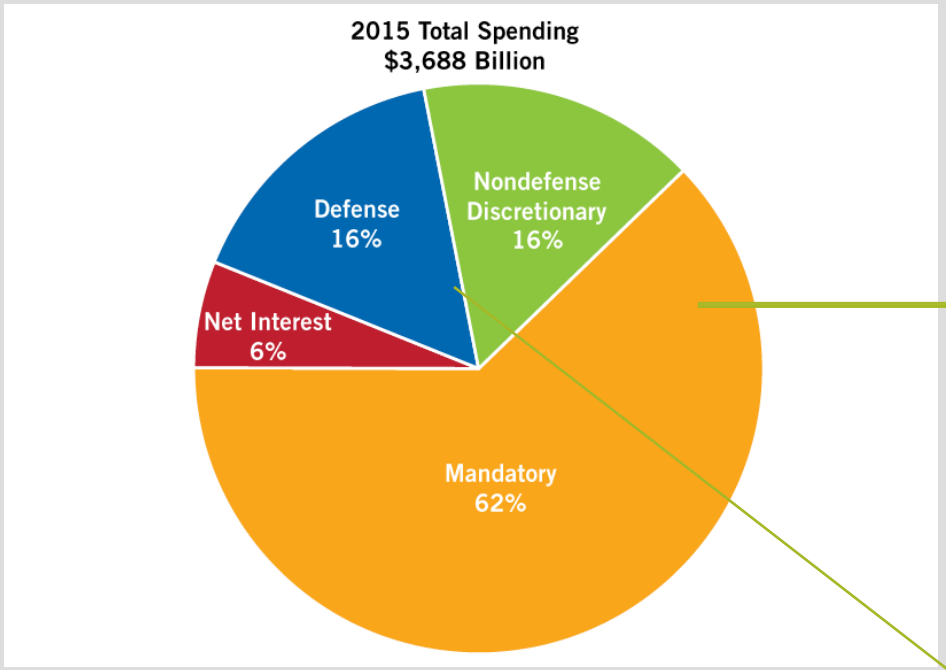
Joel Widder, Partner

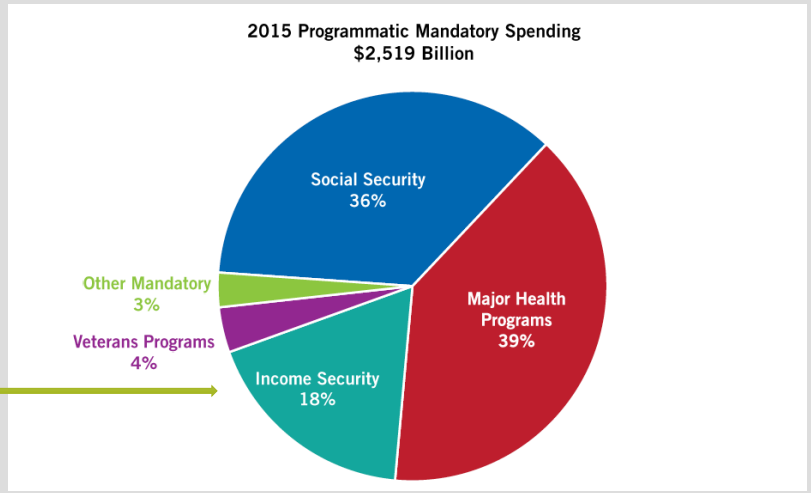
Meg Thompson, Partner

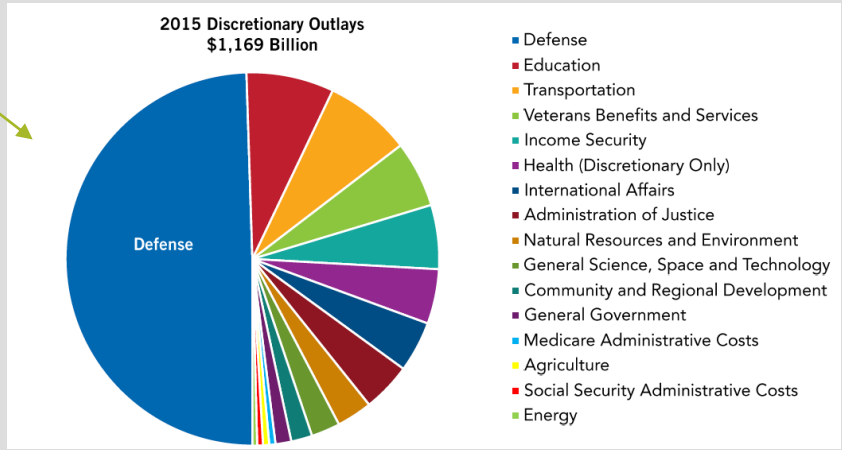
Federal Science Partners LLC

May 2016

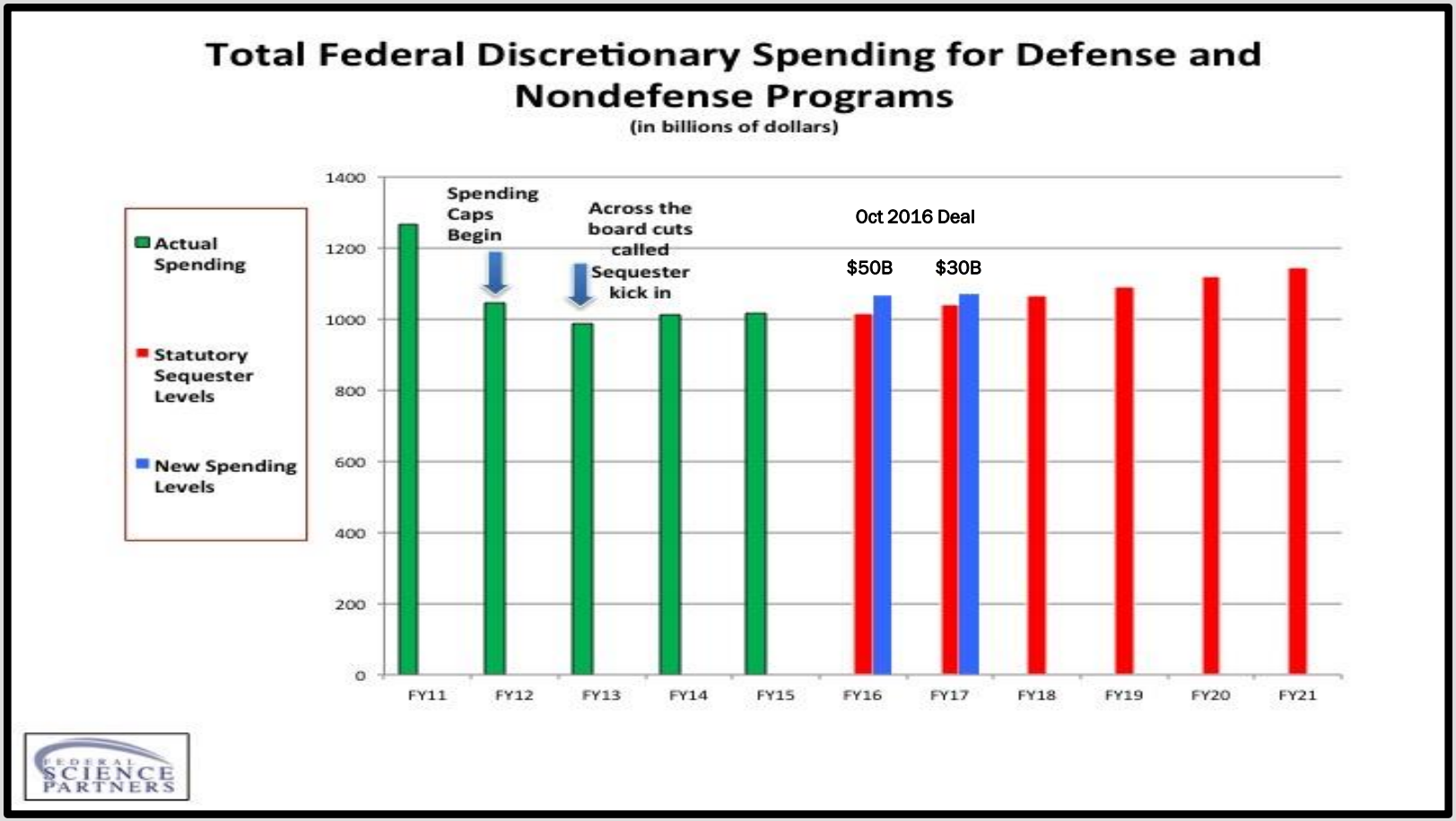
COMPOSITION OF THE FEDERAL BUDGET







FEDERAL BUDGET ENVIRONMENT FOR FY 2017



NAML ADVOCACY IN FY16 – EFFORTS AND RESULTS

- Funding cuts for geo-earth-climate research reversed
- Funding for extramural programs protected or restored – Prescott grants; Sea Grant; IOOS; climate research; cooperative institutes; coastal management grants;
- Congressional briefings on ocean acidification; coastal resiliency; coastal science and coastal economies;
- Collaborative dialog/program consultation with NCCOS
- Continued growth of NSF FSML program
- Collaboration with like-minded advocacy groups – IOOS Association, OBFS, Friends of NOAA, Consortium for Ocean Leadership, AGU, UCAR, etc.
- Protection of STEM education programs at NSF and mission agencies – NOAA, EPA, etc.
- NAML Testimony to House and Senate Appropriations Committees

FEDERAL SCIENCE PARTNERS

NAML ADVOCACY FOR GEOSCIENCES FY16

GEO Funding
(Dollars in Millions)

	FY 2015 Current Plan	FY 2016 Estimate	Change Over FY 2015 Current Plan Amount	Percent
Atmospheric and Geospace Sciences (AGS)	251.15	253.67	2.52	1.0%
EarthSciences (EAR)	177.20	179.39	2.19	1.2%
Integrative and Collaborative Education and Research (ICER)	83.74	83.74	-	-
Ocean Sciences (OCE)	355.95	359.89	3.94	1.1%
Polar Programs (PLR)	436.35	441.85	5.50	1.3%
U.S. Antarctic Logistical Support (USALS)	*[67.52]*	*[67.52]*	-	-
Total, GEO	**$1,304.39**	**$1,318.54**	**$14.15**	**1.1%**

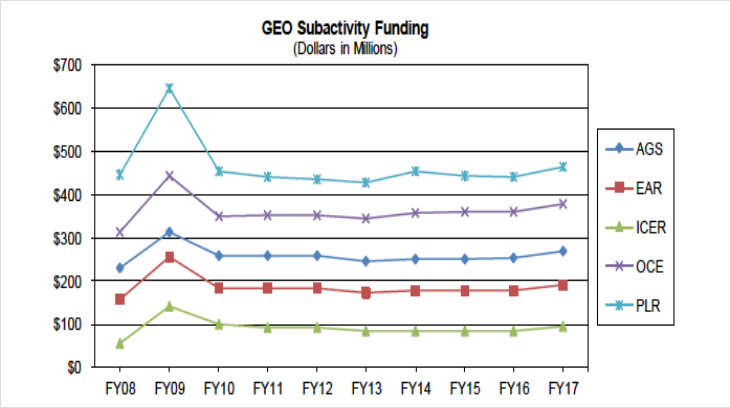
Totals may not add due to rounding.

- Largest $ increase at NSF in FY16
- Removal of a Directorate-Specific Allocation for GEO

FEDERAL SCIENCE PARTNERS

HIGHLIGHTS OF FY17 NSF BUDGET

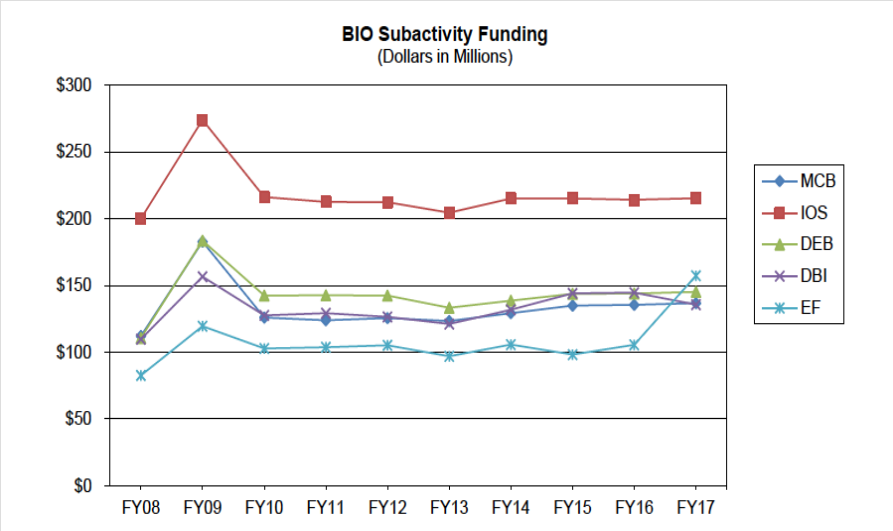
- Overall increase proposed is $500M or 6.7%. Research up 6.5% and Education and Human Resources up 8.3%. Of the $500M increment, $400M is supposed to come from the mandatory side of the Federal Budget.
- NSF-wide initiatives; Understanding the Brain; Risk and Resilience; Food-Energy-Water; INCLUDES (Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science)
- Geosciences slated to grow by 6.1% or $80M. However $79M of the $80M is mandatory funding
- All geoscience divisions essentially flat since FY 2010.
- OCE plan heavily influenced by *Sea Change*



FEDERAL SCIENCE PARTNERS

HIGHLIGHTS OF FY17 NSF BUDGET

- NSF BIO Directorate is slated to grow to $790.5M – that would be a $46.35M (6.2%) increase over FY16. However, $45M of the $46.35M is mandatory funding.
- BIO's top priority is "core research across biology". $13M increase in Rules of Life program; NEON grows by $21M to a level of $65M to cover its annual O&M costs.
- Support for biological infrastructure declines by 6.2% or $9M as collection and instrumentation development programs are re-assessed.
- BIO division funding flat since FY10



HIGHLIGHTS OF FY17 NOAA BUDGET

- Overall NOAA budget to increase by 1.3%. NOAA budget does not use mandatory funding for its increase.
- NOS – IOOS level at $29.5M; Coastal Science Assessment to grow by $4M for competitive research; Ocean & Coastal Management and Services grows by $29M with coastal management grants to grow from $75M to $91M; Coral Reef, NERRS and Sanctuaries essentially level funded.
- OAR – to grow from $482M to $520M; Ocean, coastal and GL research drops from $189M to $179M; Climate research grows; weather and air quality research drops slightly; Coop Institutes for oceans, coasts and GL drop from $32M to $27M; Sea Grant is cut $4.5M, ocean exploration by $13M, OA grows by $11M.
- NOAA Education to decline by 38%.

FY 17 BUDGET SUMMARY OF SELECTED NSF AND NASA PROGRAMS ($ IN THOUSANDS)

NATIONAL SCIENCE FOUNDATION						
	FY15	FY16	FY17 Request	FY17/FY16	FY17 House	FY17 Senate
Research and Related Activities	5,934,000	6,033,645	6,425,440	6%		6,033,450
Major Research Equipment & Facilities Construction	200,760	200,310	193,120	-4%		246,573
Education and Human Resources	866,000	880,000	952,860	8%		880,000
Agency Operations & Award Mgt	306,560	330,000	373,020*	13%		330,000
Total NSF	7,344,205	7,463,485	7,964,020	7%		7,509,788

*AOAM increases by $43M none of which is “mandatory funding” and $34M is for the agency’s relocation to Alexandria, VA

NATIONAL AERONAUTICS & SPACE ADMINISTRATION						
Science	5,244,700	5,589,400	5,898,500	6%		5,395,000
Earth Science	1,772,500	1,921,000	2,092,000	9%		1,984,000
Education	119,000	115,000	100,100	-13%		108,000
Total NASA	18,010,000	19,285,000	19,788,100	3%		19,306,000

FEDERAL SCIENCE PARTNERS

FY 17 BUDGET SUMMARY OF SELECTED NOAA PROGRAMS ($ IN THOUSANDS)

	FY15	FY16	FY17 Request	FY17/FY16	FY17 House	FY 17 Senate
National Ocean Service - Ops, Res & Facilities						
Navigation, Observation & Positioning	137,961	149,000	143,406	-4%		149,094
Integrated Ocean Observing System - Regional	29,500	29,500	29,500	0%		31,500
Coastal Science, Assessment, Response & Restoration	71,000	72,600	87,112	20%		74,177
Competitive External Research	9,000	9,000	13,000	44%		13,000
Coastal Management Grants	71,146	75,000	90,646	21%		85,000
Coral Reef Program	26,000	26,000	26,100	0%		26,100
NERRS	21,300	23,000	23,000	0%		23,900
Nat'l Marine Sanctuaries	48,400	49,000	49,800	2%		49,800
NOS - Ops, Research, & Facilities	481,107	500,100	528,411	6%		522,071
NMFS - Ops, Research & Facilities						
Marine Mammals, Sea Turtles, etc	115,219	110,246	125,107	13%		115,293
Aquaculture		6,300	7,906	25%		9,300
Fisheries Science & Management	520,011	536,680	558,715	4%		543,959
NMFS - Ops, Research & Facilities	822,138	849,497	904,734	7%		854,831
OAR - Ops, Research & Facilities						
Climate Research						
Labs & Coop Institutes	60,000	60,000	70,913	18%		60,000
Regional Climate Data and Info	38,000	38,000	52,703	39%		38,000
Climate Competitive Research	60,000	60,000	66,250	10%		60,000
Total Climate Research	158,000	158,000	189,866	20%		158,000
Ocean, Coastal, and Great Lakes Research						
Labs & Coop Institutes	27,000	32,000	27,389	-14%		32,000
National Sea Grant College Program	62,800	64,000	61,900	-3%		64,000
Sea Grant - Aquaculture	4,500	9,000	7,000	-22%		10,000
Sustained Ocean Observing and Monitoring	41,300	41,596	41,823	1%		41,823
Ocean Acidification	8,500	10,000	21,775	118%		13,500
Ocean Exploration	28,000	32,000	19,568	-39%		20,000
Total Ocean, Coastal & GL Research	172,100	188,596	179,455	-5%		181,323
Total OAR - Ops, Research & Facilities	432,900	461,898	493,410	7%		451,878
NOAA Education	27,600	26,631	16,481	-38%		26,931
Total NOAA	5,440,973	5,765,569	5,850,589	1%		5,691,169

FEDERAL SCIENCE PARTNERS

CONGRESSIONAL REACTION TO FY17 BUDGET PROPOSAL

- Congress rejects mandatory funding increase proposals.
- NSF: Senate levels funds NSF research and education at FY16 level thus eliminating Administration's proposed 6% ($500M) increase; increases NSF major equipment by $46M with funding for a third RCRV while reducing NSF internal administrative and relocation expenses by similar amount;
- NSF: Calls on NSF to fund all disciplines; balance funding between research and infrastructure; calls on the National Science Board to assess mechanisms for funding large scale facilities' operations in light of constrained research budgets
- NOAA: Rejects Administration's: cuts in Sea Grant; proposed growth in ocean acidification; increases IOOS by $2M; provides $4M for Prescott grants; increases aquaculture in both NMFS and OAR/Sea Grant; rejects Admin's cut in ocean/coastal cooperative institutes – funded at FY16 level of $32M; Ocean Exploration declines to $20M ($12M below FY16 level); Applauds NERRS Blue Ribbon "build out" report and calls on NOAA to act on report's recommendations.
- NASA – rejects mandatory funding proposal. Funds NASA at $19.3B, $1B above the budget request (entirely with discretionary resources). NASA Science is funded at $5.4B of which $1.98B is for earth science
- House Subcommittees expected to mark up later this month (May 2016)

SENATE DIRECTION ON NERRS, IOOS, AND NCCOS

"...Additionally, NOAA is encouraged to increase its monitoring and research activities with partners through its NERRS, Integrated Ocean Observing System [IOOS], and National Centers for Coastal Ocean Science offices to improve and expand a collective state of the art environmental observing system..."

Source: Page 25, Senate Report 114-239, Report that accompanies S. 2837, the Departments of Commerce and Justice, and Science and Related Agencies Appropriatons Act, 2017, April 21, 2016.

FEDERAL SCIENCE PARTNERS

OTHER PENDING ISSUES

- Geosciences, climate, USGCRP – all remain targets;
- NERRS Blue Ribbon Report – Build Out Plan
- NOAA CI-21 Plan – NOAA mission, synchronize and adapt, performer of choice, complement NOAA workforce
- America COMPETES legislation;
- Science in the National Interest bill;
- Sea Grant Reauthorization pending;
- IOOS legislation is pending;
- Talk of a new CZM bill;
- Administration's Talk of STEM Ed consolidation seems to have died down

FEDERAL SCIENCE PARTNERS

WHAT IS NAML'S PUBLIC POLICY POSTURE FOR FY 2017

- FY 2017 public policy priorities, appropriations testimony, March public policy meeting with key federal policy and decision makers
- Conducted Congressional briefings on ocean acidification and coastal science impacting coastal economies;
- NAML continues its interactions with key agency decision makers on coastal science, observing, extramural research;
- NAML joins with like-minded organizations to advocate for the health of federal research funding; geo and environmental research funding; STEM education; ocean, coastal and Great Lakes research and education;
- Increasing its visibility and partnerships with key agency and Administration decision makers;
- Preparing for the next Administration

FEDERAL SCIENCE PARTNERS

WHAT TO EXPECT IN THIS ELECTION YEAR

- FY 2017 Appropriations – mandatory funding proposals have been dismissed out of hand making Administration proposed increases for science hard to come by; House and Senate Appropriations Committees are moving to mark up bills but conferenced by Oct 1 doubtful. Expect stop gap level funding (CR) to run until .....;
- This time next year – new Administration; new Congress will convene; new leadership at many agencies and key Congressional committees;
- NAML to collaborate with like-minded organizations to increase the impact of its messages with key decision and policy makers;
- NAML to continue to increase its visibility and influence as a key and trusted voice with respect to the health of the oceans, coasts, and Great Lakes research and education community.

FEDERAL SCIENCE PARTNERS