



# Task Force Ocean



## Assessing and Advancing Ocean Science for the Advantage of the U.S. Navy

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*Oceanographer & Navigator of the Navy*  
*Director, Task Force Ocean*  
*Director, Task Force Climate Change*  
*Commander Naval Meteorology and Oceanography Command*



# The Competition



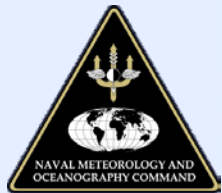
*Our center of gravity will be team effectiveness... to become the most competitive, most feared Navy on the water.*

***This Is The Case For Ocean Science In The U.S. Too!***



# U.S. Ocean Science Enterprise

## U.S. Government



US Army Corps of Engineers.



...and others

## Academia



...and others

## Private Sector



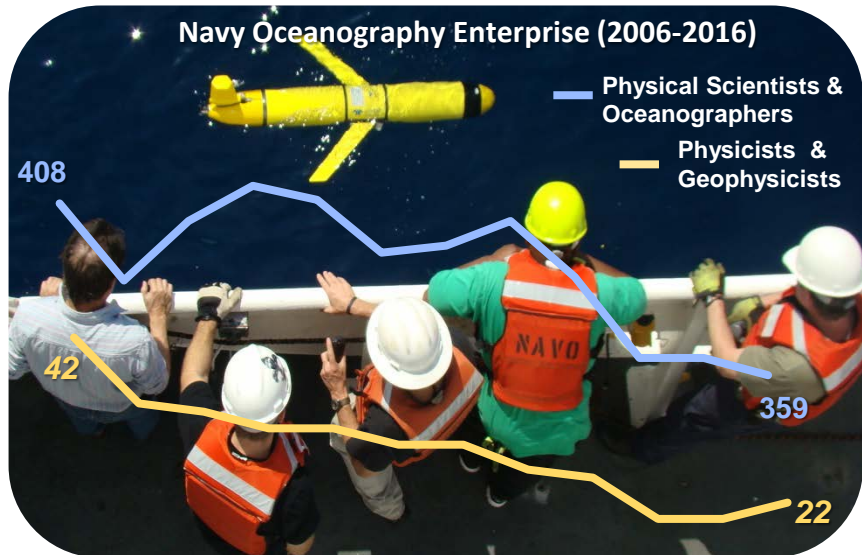
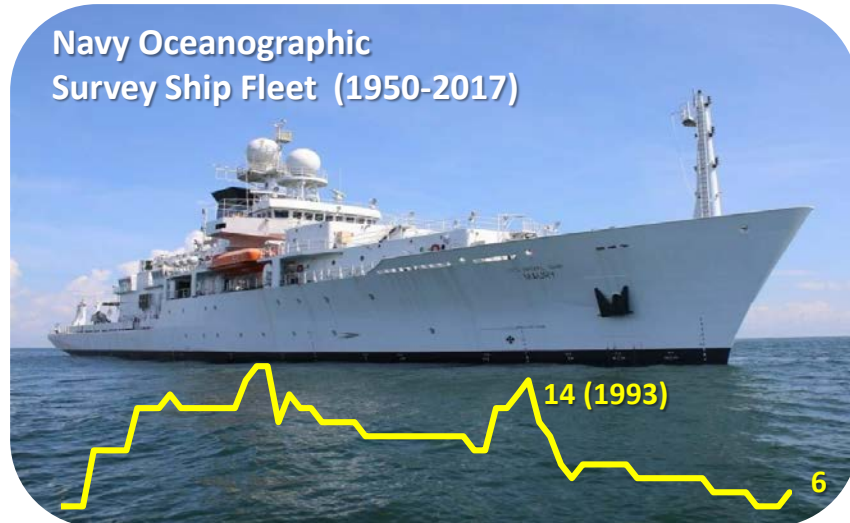
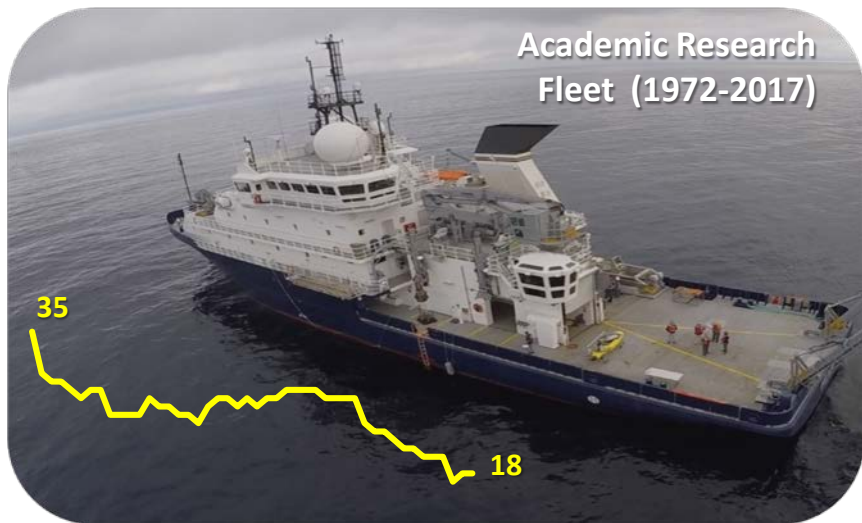
...and others

**We're Networked with Long-Standing Relationships**





# Navy and National Trends

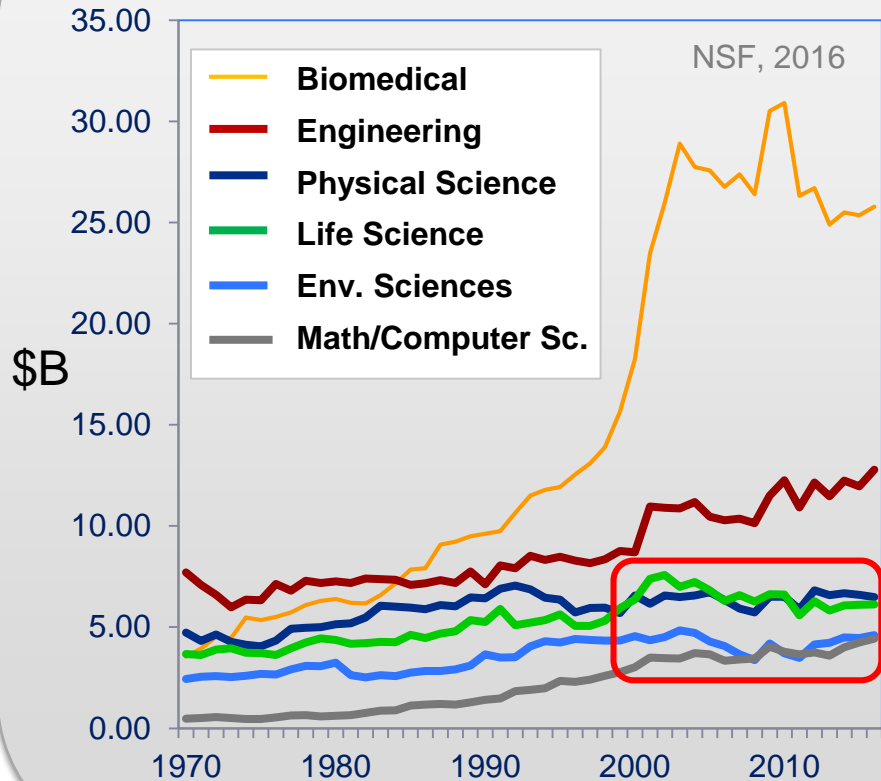


**Steady Decline from Cold War Era Peaks**

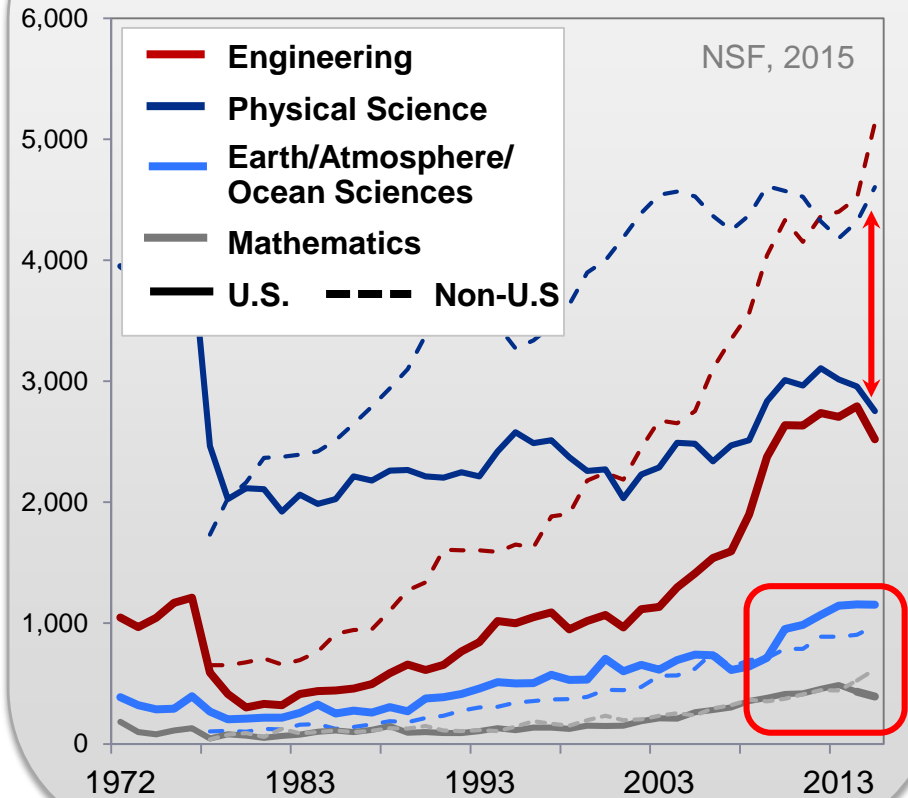


# National Trends (cont.)

### Federal Research by Discipline (FY16 dollars)



### U.S. (solid) vs non-U.S. (dashed) Postdocs at U.S. Institutions



**Non-U.S. Nationals Exploiting Larger Piece of Flat-lined Spending**



# The Competition



***And It is Not Just Intellectual Property They are Stealing!***





# Task Force Ocean Organization

## Executive Steering Committee



## Executive Outreach Group

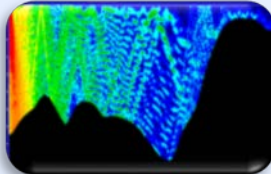


## Working Groups

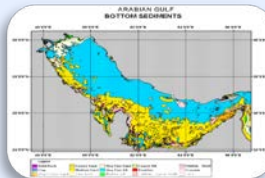
**Sensing/  
Observations**



**Understanding/  
Prediction**



**Application**



**Human Capital**



**Strategic  
Communications**





# A Tightly Coupled Team

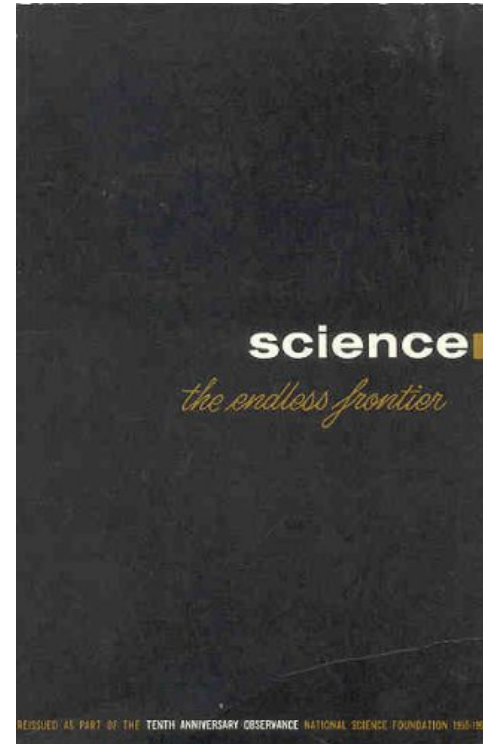


*With a Common Goal to Advance Science in the U.S.*





# Debunking the Lie



## *Science for Science's Sake*

***He Got a Lot of Things Right... Except for This!***



# Use-Driven Ocean Science





UNCLASSIFIED

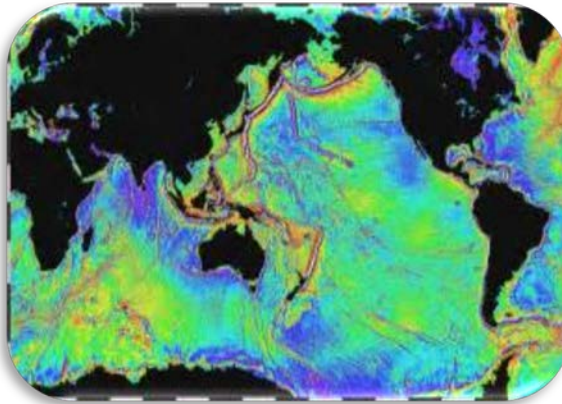
# The Oceans



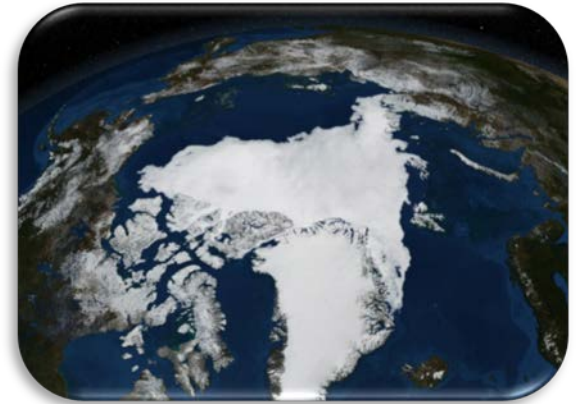
5



20



100



***Knowing It Better Than The Competition Is Needed To Win***





## Discussion / Q&A