

# RVOC Spring 2015

## NSF FY 15 Ship Operations

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NSF



*Stream of Consciousness -*

- Decadal Survey – Sea Change
- Budget Outlook for CY 15
- NSF STR's to date CY 2016-2020
- COV- Proposal Quality
- OMB Task/ Politics on the Hill (NSF Budget)
- Welcome aboard Safety Briefings
- Consider Highlighting NSF
- The Equalizer- Grub

# OCE's response to Sea Change



## NRC Sea Change –

- The report recommends that the National Science Foundation rebalance its funding for ocean science research, which in recent years has shifted toward research infrastructure at the expense of core science programs.
- Without a budget increase, the only way to restore funding for core science is to reduce the amount of money spent on infrastructure, the report says. If budgets remain flat or have only inflationary increases, OCE should adjust its major infrastructure programs to comprise no more than 40 percent to 50 percent of its total annual program budget, the report says. To implement this, OCE should initiate an immediate 10 percent reduction in major infrastructure costs in their next budget, followed by an additional 10 percent to 20 percent decrease over the following five years.

# NRC Options for Cost Reductions & RCRVs

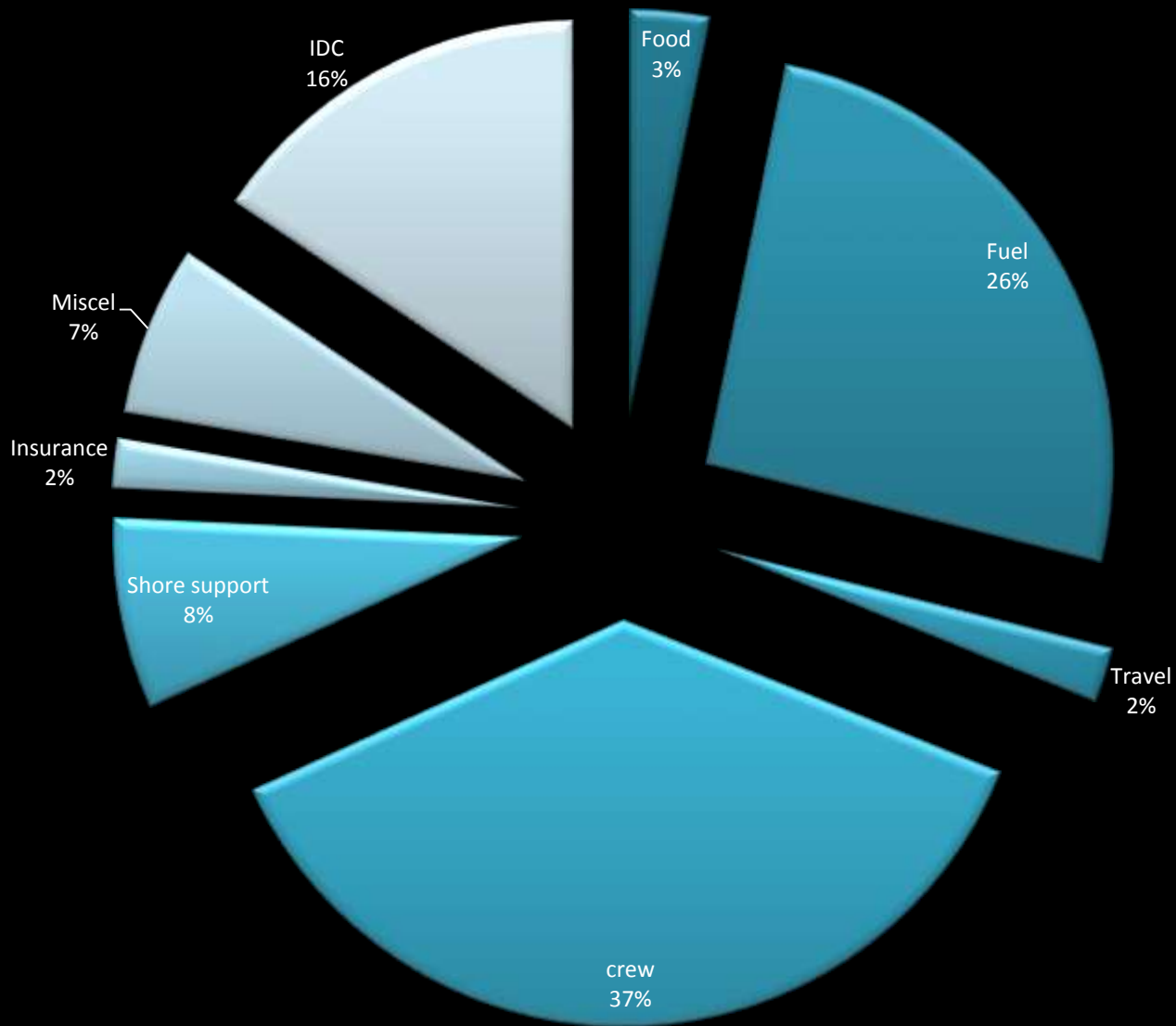
## Fleet

- Lay up *Langseth* seismic ship
  - Consolidate Atlantic Intermediate ships
  - Consolidate Pacific Intermediate ships
- 

NSF should ***reconsider whether the current RCRV design is aligned with scientific needs*** and is cost-effective in terms of ***long-term O&M***, and should plan to ***build no more than two RCRVs***.

Budgets ? No baseline has been established for FY 15 and beyond in terms of Sea Change to date.

# CY 15 Total Projected % of Expenses



64.36%	global
73.09%	Ocean/interr
42.67%	regional
22.22%	coastal

*CY 15 NSF Support per class*

66.95%	global
65.13%	Ocean/interr
48.93%	regional
29.44%	coastal

*CY 14 NSF Support per class*

1344 Projected NSF/OCE days in  
CY 15 from 1953 days in CY 14 ,  
down by 609 days (projected)\*

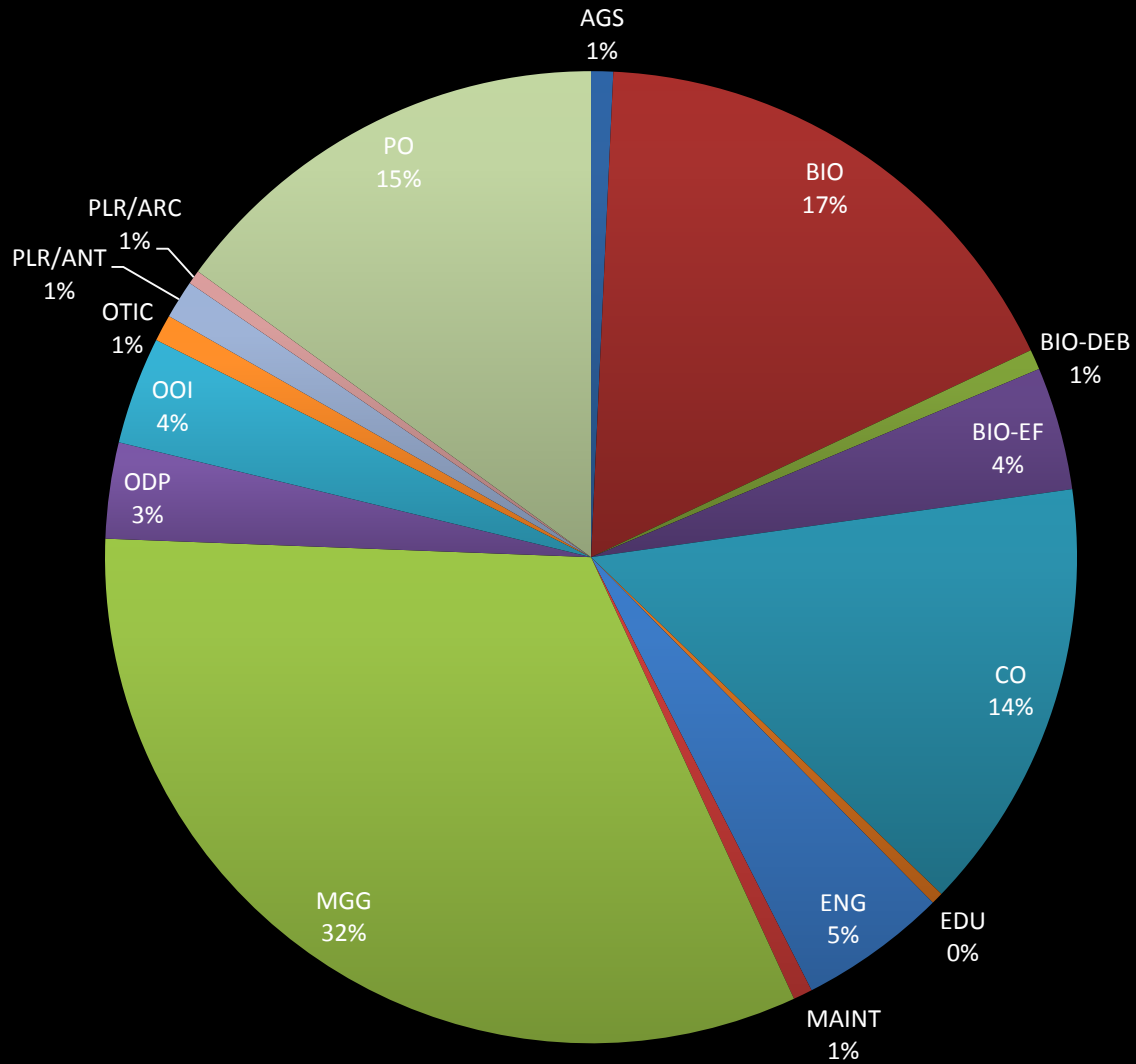
\* CY 14 days include Palmer days, CY 15 include Palmer and Healy days



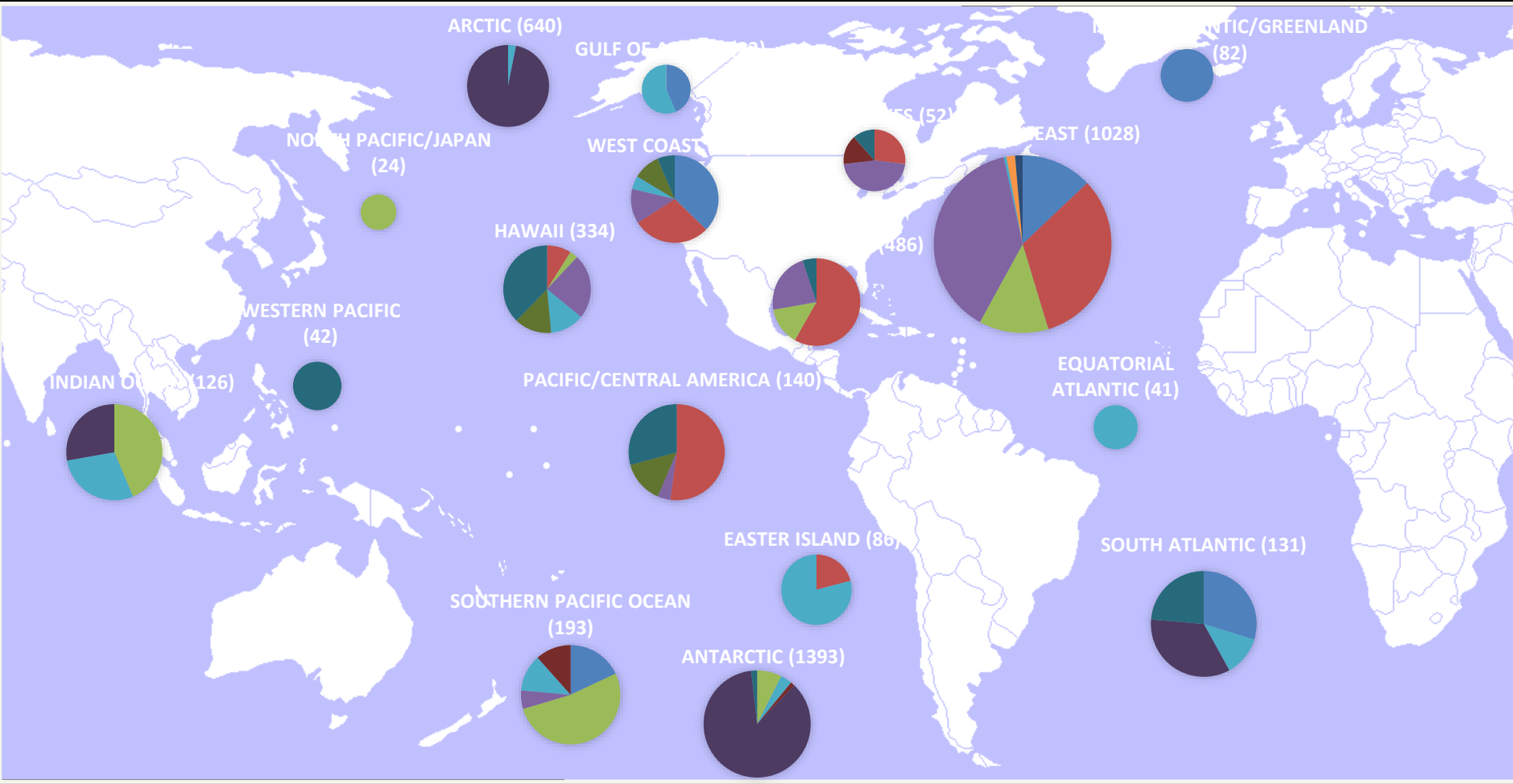
## Reason for Fewer NSF days

- Retirement of four Regional ships :  
*Wecoma, Cape Hatteras, Point Sur, New Horizon*
- Retirement of two Globals :  
*Knorr, Melville*
- *R/V Sikuliaq* operating mostly on MREFC funds
- Fuel costs lower than CY 12 and stable

# 2012-2014 % Ship \$s spent per program



# NSF Science Days by Discipline and Region – 2016 - 2020



Shown above are possible ship days based on proposal submissions to date.  
 For CYs 17, 18, 19, 20 more days will be requested based on the bi-annual proposal submission.  
 The NSF success rate is about 30%

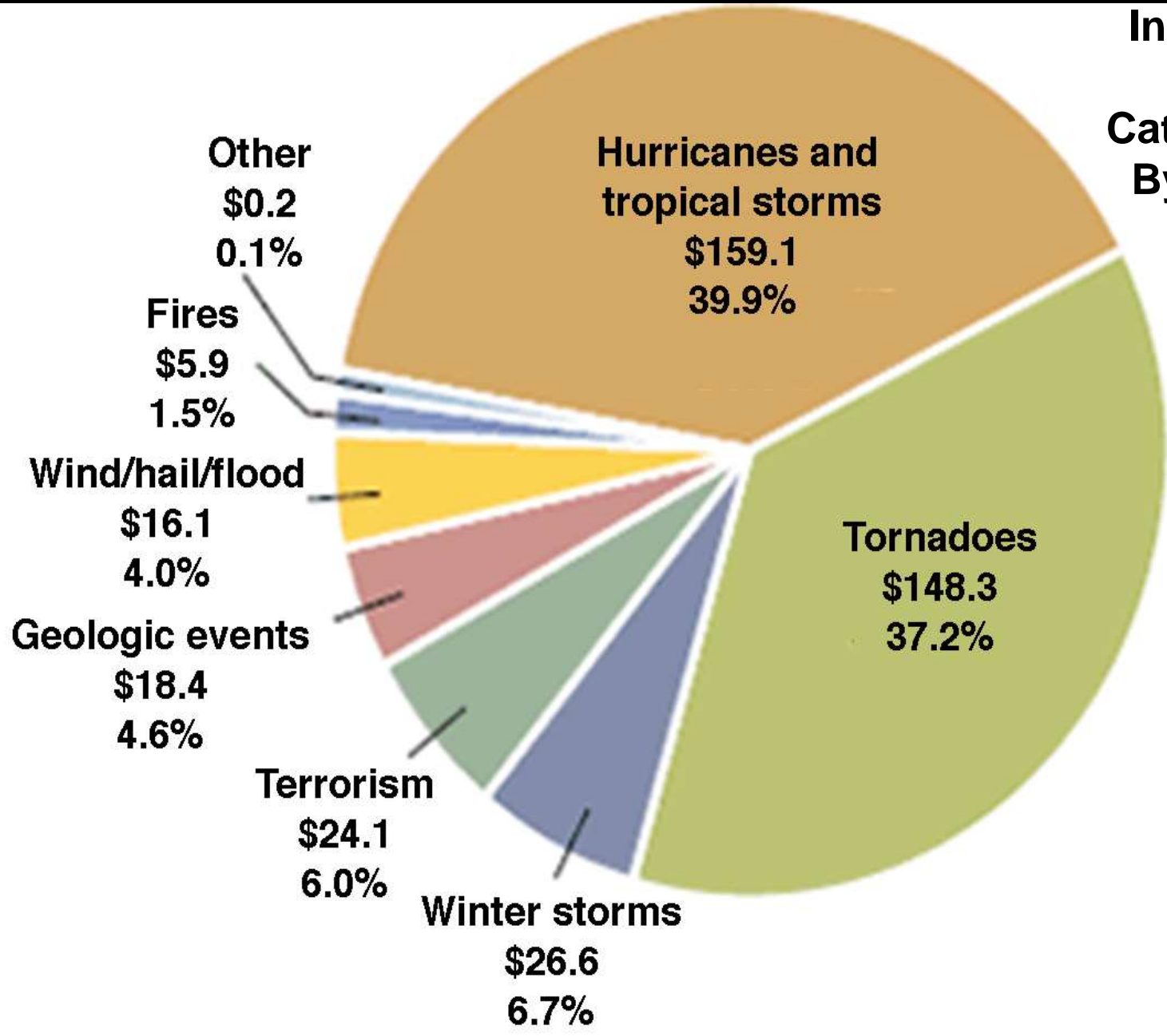
The chairman of the House Science, Space and Technology (HSST) Committee, Lamar Smith, introduced a bill on 15 April to reauthorize the American Competes Act and set future spending targets for the National Science Foundation (NSF), the Department of Energy (DOE) and the National Institute of Standards and Technology for fiscal years 2016-2017.

Lamar Smith's legislation, which was marked up by the HSST Committee during a contentious hearing on 22 April, is being criticized as adding money to research accounts that key Republicans support at the expense of others they oppose. The measure would also allocate specific funding for each NSF directorate, as opposed to the current practice of providing an overall budget for the agency's research activities. There is concern that this change would rob NSF of the ability to determine its own funding priorities.

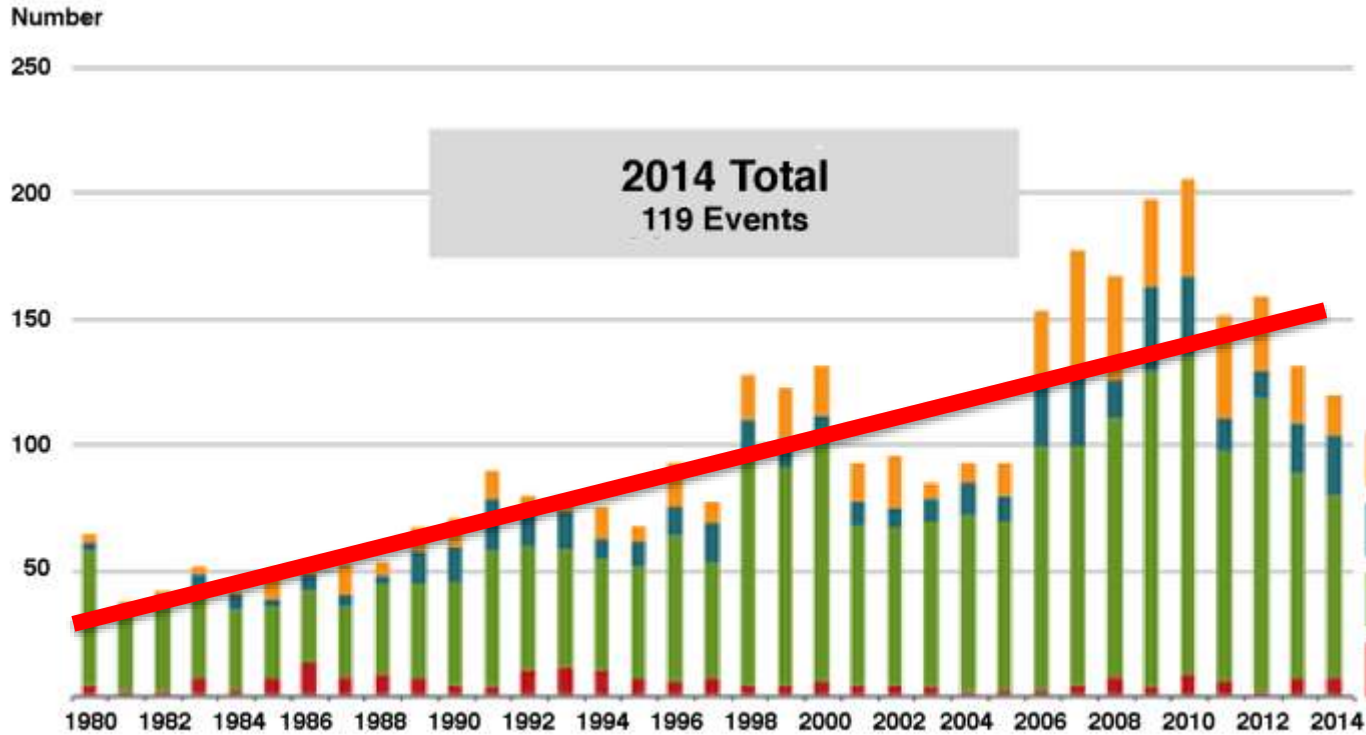
Cuts to geosciences, social sciences

Specifically, the bill proposes to cut NSF's **Geosciences Directorate budget by 8%** to \$1.2 billion, (President's was \$1.32) and to slash funding for NSF's Social, Behavioral and Economic Sciences directorate by nearly 45% to \$150 million.

**Inflation-Adjusted  
U.S. Insured  
Catastrophe Losses  
By Cause of Loss  
1994-2013**  
2013 \$ billion



**Total:  
\$398.7 billion**



- **Geophysical Events**  
(earthquake, tsunami, volcanic activity)
- **Meteorological Events**  
(tropical storm, extratropical storm, convective storm, local storm)
- **Hydrological Events**  
(flood, mass movement)
- **Climatological Events**  
(extreme temperature, drought, forest fire)

16  
24  
72  
7

# Cost Per person across all ships

