2010 RVTEC Meeting, Bermuda
NSF Report
The NSF Appropriation for FY 2011 has not been passed. NSF is currently operating under a Continuing Resolution which runs through...

In NSF’s request for 2011, we’ve asked for an increase in OCE of 8.3%

Pressures from the deficit will likely make for a very austere 2012.


Federal financing of science research, which has risen quickly since the Obama administration came to power, could fall back to pre-Obama levels if the incoming Republican leadership in the House of Representatives follows through on its list of campaign promises. An analysis by the American Association for the Advancement of Science looked at what would happen if all of the agencies were cut to the 2008 amounts. The National Institutes of Health would lose $2.9 billion, or 9 percent, of its research money. The National Science Foundation would lose more than $1 billion, or almost 19 percent, of its budget, and the National Oceanic and Atmospheric Administration would lose $324 million, or 34 percent.
## DIVISION OF OCEAN SCIENCES (OCE)

### OCE Funding

<table>
<thead>
<tr>
<th></th>
<th>FY 2009 Actual</th>
<th>FY 2009 ARRA</th>
<th>FY 2010 Estimate</th>
<th>FY 2011 Request</th>
<th>Change Over FY 2010 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OCE</strong></td>
<td>$330.51</td>
<td>$114.00</td>
<td>$348.92</td>
<td>$377.89</td>
<td>$28.97 8.3%</td>
</tr>
<tr>
<td>Research</td>
<td>144.21</td>
<td>63.21</td>
<td>181.32</td>
<td>188.87</td>
<td>7.55 4.2%</td>
</tr>
<tr>
<td>Center for Coastal Margin Observation and Prediction</td>
<td>4.00</td>
<td>-</td>
<td>4.00</td>
<td>4.00</td>
<td>-</td>
</tr>
<tr>
<td>Education</td>
<td>7.84</td>
<td>2.00</td>
<td>8.37</td>
<td>9.77</td>
<td>1.40 16.7%</td>
</tr>
<tr>
<td>Infrastructure</td>
<td>172.76</td>
<td>48.79</td>
<td>152.90</td>
<td>172.11</td>
<td>19.21 12.6%</td>
</tr>
<tr>
<td>Academic Research Fleet</td>
<td>87.31</td>
<td>18.00</td>
<td>78.00</td>
<td>75.00</td>
<td>-3.00 -3.8%</td>
</tr>
<tr>
<td>Integrated Ocean Drilling Program</td>
<td>47.95</td>
<td>25.00</td>
<td>43.40</td>
<td>46.41</td>
<td>3.01 6.9%</td>
</tr>
<tr>
<td>Ocean Observatories Initiative</td>
<td>17.84</td>
<td>-</td>
<td>16.50</td>
<td>27.50</td>
<td>11.00 66.7%</td>
</tr>
</tbody>
</table>
OCE Highlights – Integrative Programs Section

- **R/V Sikuliaq (formerly ARRV)**
  - Status – Construction start delayed (weight issue)
  - Cut Steel – December 2010?
  - Launch – April 2012
  - Begin Science Ops – January 2014

- **HOV Alvin Upgrade (formerly RHOV)**
  - Status – Final Design Review Completed 9/21-23
  - Sea Trials – **Late 2011**
  - Begin Science Ops – **2012**
Observations and Action Items
David Conover (Oct, 2010)

- Primary issues impacting OCE/NSF
  - Infrastructure vs. Science funding
  - Fleet renewal
  - Cross-cutting programs
  - Response to OPM Survey
## Infrastructure vs. Science

<table>
<thead>
<tr>
<th>(Dollars in Millions)</th>
<th>FY 2010 Estimate</th>
<th>Infrastructure Subtotal</th>
<th>Percentage of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO</td>
<td>889.64</td>
<td>367.79</td>
<td>41%</td>
</tr>
<tr>
<td>AGS</td>
<td>259.80</td>
<td>125.70</td>
<td>48%</td>
</tr>
<tr>
<td>EAR</td>
<td>183.00</td>
<td>61.59</td>
<td>34%</td>
</tr>
<tr>
<td>OCE</td>
<td>348.92</td>
<td>152.90</td>
<td>44%</td>
</tr>
<tr>
<td>BIO</td>
<td>714.54</td>
<td>135.45</td>
<td>19%</td>
</tr>
<tr>
<td>CISE</td>
<td>618.83</td>
<td>30.60</td>
<td>5%</td>
</tr>
<tr>
<td>ENG</td>
<td>743.93</td>
<td>32.83</td>
<td>4%</td>
</tr>
<tr>
<td>MPS</td>
<td>1351.84</td>
<td>353.73</td>
<td>26%</td>
</tr>
<tr>
<td>SBE</td>
<td>255.25</td>
<td>43.56</td>
<td>17%</td>
</tr>
<tr>
<td>OCI</td>
<td>214.28</td>
<td>150.38</td>
<td>70%</td>
</tr>
<tr>
<td>OISE</td>
<td>47.83</td>
<td>0.10</td>
<td>0%</td>
</tr>
<tr>
<td>OPP</td>
<td>451.16</td>
<td>321.43</td>
<td>71%</td>
</tr>
</tbody>
</table>

**ACGEO, Oct, 2010:** Infrastructure/Research Balance: Infrastructure (IF) costs have averaged ~40% of the OCE budget for the last decade but is now at 44% and is estimated to increase in the next 3-5 years to ~48% or more as OOI and other IF costs occur. OCE is a very broad community, and tremendous infrastructure is necessary because of the inherent nature of ocean sciences research. The challenge will be to continue to ensure sufficient support for OCE research and education.
Fleet Renewal

Fleet Size – (w/o Federal Agency Investment)

Academic Research Vessel Fleet

<table>
<thead>
<tr>
<th>Year</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>21</td>
<td>13</td>
<td>9</td>
</tr>
</tbody>
</table>
Fleet Renewal

Fleet Size – Ocean Class, SIKULIAQ & RCRV
Regional Class Research Vessels (RCRV)

• Status – Investigating Funding Options:
  – For initial hull construction starting in FY15; three hulls total

• Project Readiness:
  – Competitive design development with NSF Panel down-select
    – Oct 2009
  – UNOLS Community input received - Sept 2010
  – Move forward with “ARRV-like” process (Solicitation drafted)
  – Phase I – “Project Refresh” including CDR/PDR & FDR (R&RA $)

• Optimal Schedule:
  – Begin Construction – Mid-2016
  – Science Operations – Mid-2018
Ship Days Funded/Pending and Days Available

2011 Ship Days Pending multiplied by a 30% funding success rate

Ship Days Funded

Ship Days Available

Operating Days

2011 Proposals

Oceanographic Technical Services: Dec 1st
Oceanographic Instrumentation: Dec 15th
Shipboard Scientific Support Equipment: Dec 15th

Remember:
1. Data Management Plan (Required after Jan 18. Fastlane will reject without)
2. References
3. Facilities

N/A for our proposals but you need to put something in there. Fastlane does not regulate