

NOAA 5 Year Research and Development Plan 2013-2017

Dr. Shelby Walker, OAR/PPE
Lead-5 Year R&D Plan Development

Purpose-5 YR R&D Plan



NOAA Ship Thomas Jefferson at the DWH oil spill site
http://www.noaanews.noaa.gov/stories2011/20110214_fy2012budget.html

- Provide a public face for NOAA Research and Development (R&D)
 - Articulate a clear **research vision**; highlight priorities
 - Describe planning for **mission-based research**
 - Highlight **evolution of NOAA R&D**
 - Promote **integration** and **holistic understanding**
 - Describe **benefits to society** of NOAA R&D enterprise
- Guide engagement with our partners, the public, etc.

Audiences

- **Internal**

- Scientists
- Planners
- Management

- **External**

- DoC, OMB, Hill
- NOAA partners, grantees, contractors
- Academia and Earth science community
- Other science agencies
- Science-interested/science-literate public



Outline

- **Preface**
- **Executive Summary**
- **Section 1: Introduction: Why R&D?**
 - Use-Inspired Research
 - Framing NOAA's R&D
- **Section 2: NOAA's Strategic Approach to R&D**
 - Research Vision
 - Science by Goal and related R&D Enterprise Objectives
- **Section 3: People, Places and Things**
- **Section 4: Administering NOAA R&D**
 - Values
 - Keys to Success
- **Conclusion**
- **Appendices**



Section 2 - Strategic Approach to R&D

Goal: Goals and R&D related Enterprise Objectives from NOAA's Next Generation Strategic Plan (NGSP). They direct all NOAA activities.

- **Key Question:** Unanswered questions represent the lack of some knowledge or capability needed to achieve NOAA's goals; **motivate R&D.**
- **Objective for R&D:** Not ultimate outcomes; objectives represent **steps toward answering key questions.**
- **Target:** Targets are discrete end-states within 5 years, not continuous activities. Discrete targets help **verify progress** toward the objective, **demonstrate value** and **learn from success or failure.**

NOTE: Targets are **not comprehensive**-they merit particular attention or are representative of a broader suite of activities

Foundation for the 5 YR R&D Plan

NOAA Strategic Execution and Evaluation (SEE) Implementation Plans (IPs) are the starting and ending points for the Plan

- Foundational content of the 5 YR R&D Plan is from **current IPs**
- 5 YR R&D Plan also gains input from:
 - Other strategic documents (e.g., Science Challenge workshop reports)
 - Internal and external stakeholders – **YOU!**
- 5 YR R&D Plan thus directs NOAA R&D via IP updates



Provide Your Input!

- **YOUR** opportunity to help shape NOAA's future R&D!
 - Review the current draft during the NOAA comment period (February 14-February 28) (www.nrc.noaa.gov/plans.html)
 - Consider the following:
 - How can we further highlight NOAA's **critical R&D needs** and the **benefit of NOAA's R&D**?
 - Can we enhance integration across goals and disciplines towards a more **holistic understanding** of the Earth System?
 - Have we identified the **most critical targets** that merit particular attention or are representative of a broader suite of activities?



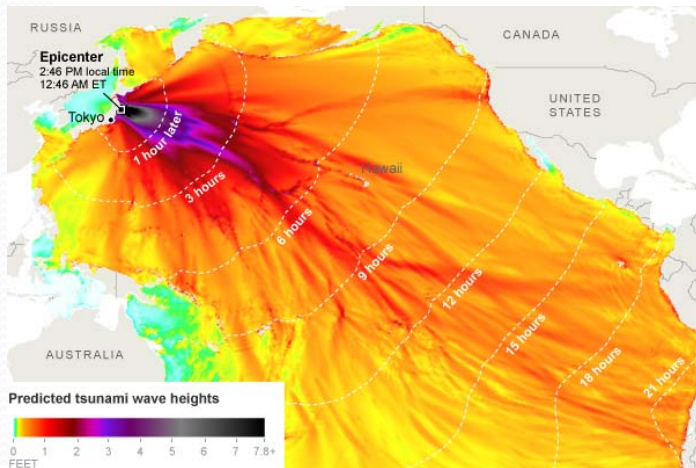
5 YR R&D Plan Development Team

- **Lead**-Shelby Walker, OAR/PPE
- **Communications Lead**-Colin Quinn, NOAA Policy
- **Production Lead**-Derek Parks, OAR/TPO
- **Writing Lead**-Avery Sen, OAR/PPE
 - Climate Lead-Neil Christerson, OAR/CPO
 - Weather Lead-Stephen Smith, NWS/Meteorological Development Laboratory
 - Oceans Lead-Felipe Arzayus, NMFS/OST
 - Coasts Lead-Jawed Hameedi, NOS/NCCOS
 - Obs/Modeling/Engagement Lead-Eric Bayler, NESDIS/STAR

Where to Find the Plan

NOAA Research Council Web Page

<http://www.nrc.noaa.gov/plans.html>



Source: NOAA Center for Tsunami Research, Pacific Marine Environmental Laboratory
<http://www.ritholtz.com/blog/2011/03/pacific-ocean-predicted-tsunami-wave-heights/>



http://www.aoml.noaa.gov/hrd/about_hrd/



Questions?