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Hampton Roads Sea Level Rise Preparedness and Resilience Intergovernmental Planning Pilot Project

Ray Toll

Old Dominion University, rtoll@odu.edu

David Architzel

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Hampton Roads

Sea Level Rise Preparedness and Resilience

Intergovernmental Planning Pilot Project

Ray Toll
David Architzel



Mission

Develop a regional “whole of government” and “whole of community” approach to sea level rise preparedness and resilience planning

Vision

An intergovernmental planning organization that can effectively coordinate the sea level rise preparedness and resilience planning of Federal, state and local government agencies and the private sector, taking into account the perspectives and concerns of the citizens of the region.

Statement of the Problem

- The Hampton Roads region is already being impacted by sea level rise and this is projected to continue over the next century
- The impacts of sea level rise are broad and without effective preparedness and resilience measures in place will have potentially serious consequences for the region
- Effective regional planning for sea level rise requires coordination of the planning efforts of Federal, state and local government agencies and the private sector



Origins of the Pilot Project

- 2007: City of Norfolk begins assessing sea level rise impact on the city
- 2009: Hampton Roads Planning District Commission begins assessing sea level rise impact on the region
- 2010: ODU launches Climate Change and Sea Level Rise Initiative (CCSLRI), begins holding forums to connect and engage government, business and the public

The Old Dominion University Climate Change and Sea Level Rise Initiative will bring the university and the region's foremost experts together to find solutions to the challenges facing our region and other regions globally.” - President John Broderick, August 24, 2010

- 2010: President Obama issues his Whole of Government challenge (pre-sequestration)
- 2012: OCEANS 2012 – Addresses Sea Level Rise in VA Beach Convention Center attended by 2000 from 35 countries and Federal Agencies (President Broderick, Mayors Fraim/Sessoms honorary chairs)
- 2012: Superstorm Sandy exposes US East Coast vulnerabilities (Naval Base Norfolk)
- 2013: President’s Climate Change Executive Order

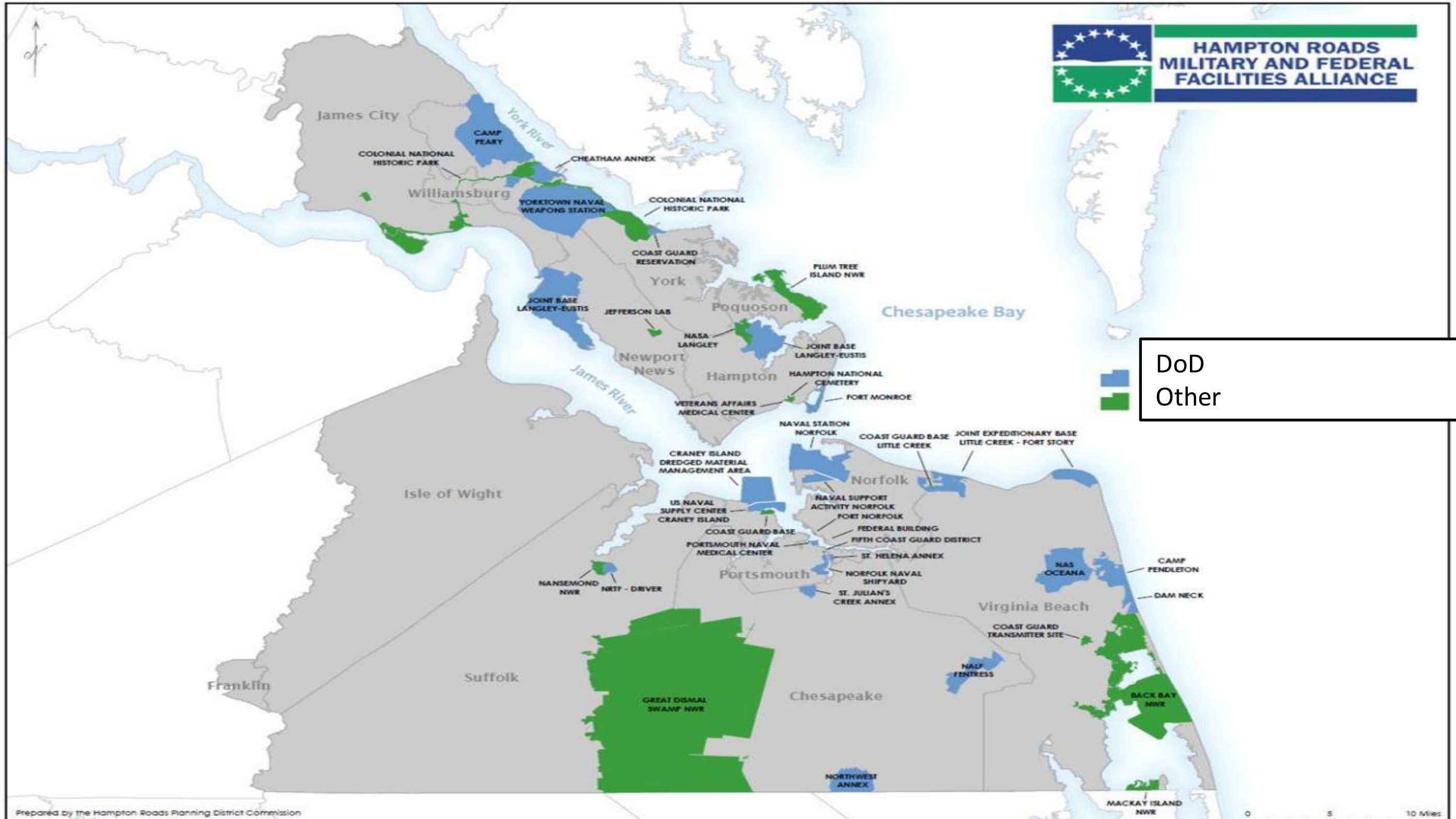


Milestones

- June 3, 2014: Pilot Project kickoff at the TechSurge conference Big Blue Room
- June 30, 2014: “Rising to the Challenge,” bipartisan forum for Virginia members of Congress organized by Senator Kaine Big Blue Room
- July 1, 2014: Governor’s Climate Commission announced
- Aug, 2014: Pilot website rollout – www.centerforsealevelrise.org
- Oct 10, 2014; Pilot Charter signed
- Oct 28, 2014: Sen Kaine letter
- Dec 2, 2014: FEMA NEP Tabletop to galvanize the pilot and help transition to Whole of Community



Military and Federal Facilities in Hampton Roads





Unique Role of the Pilot Project

- Several sea level rise related initiatives are in progress:
 - Federal:
 - DOD, Navy and Air Force assessments of bases
 - NASA assessment of Langley Research Center
 - US Army Corps of Engineers and NOAA studies, planning and guidance
 - FEMA floodplain program
 - Commonwealth:
 - Secure Commonwealth Panel, Recurrent Flooding Subpanel
 - Virginia General Assembly, Joint Subcommittee on Recurrent Flooding
 - Governor's Climate Change and Resiliency Update Commission
 - Regional:
 - Hampton Roads Planning District Commission, Special Committee on Recurrent Flooding and Sea Level Rise
 - Local:
 - City of Norfolk studies and planning
 - Several other localities have begun assessments and planning
- Problem: ***There is no intergovernmental coordination across these initiatives***
- This Pilot Project closes the gap in intergovernmental coordination of planning
 - ***Critical to the success of all the initiatives listed above***

DEMONSTRATES A NEW ROLE FOR A UNIVERSITY – A neutral party to incubate intergovernmental solutions and serve as a center for intellectual capital.



Phase I. June 2014 – June 2015.

- Create organizational structure
- Develop template from this new organization for other regions

Phase II. June 2015 – June 2016.

- Commence coordination of sea level rise preparedness and resilience planning
- Refine the organizational structure and operating procedures
- Final report on Phase II, including:
 - Progress Report on coordination of planning, including policy recommendations and lessons learned
 - Plan of Action for the intergovernmental planning organization for the first two years after the Pilot Project, June 2016 – June 2018
 - Update to the template developed in Phase I based on the lessons learned in Phase II

On June 3, 2016, launch the Hampton Roads Sea Level Rise Preparedness and Resilience Intergovernmental Planning Team



Scope of Planning

- Adaptive Management Approach
- Initial planning will address the three major impacts of sea level rise:
 - Permanent inundation
 - Increased tidal flooding
 - Increased storm surge, both frequency and magnitude
- Development of adaption-related knowledge that may be actionable to local and state planners, and help HR DoD services articulate, vet and prioritize requirements.
- Planning will encompass the three strategies for preparedness and resilience:
 - Protect
 - Accommodate
 - Retreat
- Address coordination of key plans and policies:
 - Land use planning
 - Engineering and construction solutions that may have to extend across jurisdictional boundaries
 - Ensuring the resilience of critical infrastructure



- Authority of Federal, State and Local government agencies to participate in coordination of planning
- Decision-making process
- Coordination with private sector owners of critical infrastructure
- Monitoring execution of coordinated plans
- Resources: funding and personnel

Intergovernmental Planning Pilot Project

STEERING GROUP

RDML Williamson, CNRMA
COL Olsen, USA
CAPT Bonner, USCG
Ms. Thorogood, CGD5
CAPT Rios, USN
Col Allen, USAF
Ms. Wood, VPA

Mr. Keaton, HRPDC
Mr. Redick, Norfolk
Mr. Feinman, DNR
Mr. Fallon, Hun. Ing.
Mr. Architzel, ODU - convener
Mr. Toll, ODU - convener

LEGAL WORKING GROUP

Roy Hoagland

LAND USE WORKING GROUP

Burrell Saunders

EDUCATION AND OUTREACH WORKING GROUP

Denise Thompson

INFRASTRUCTURE WORKING GROUP

RDML Phillips (ret)

SENIOR MENTORS

Mayor Frank

ECONOMIC IMPACTS COMMITTEE

MUNICIPAL PLANNING COMMITTEE

Christine Morris/Joshua Behr

CITIZEN ENGAGEMENT COMMITTEE

Chris Bonney/Michelle Covi

PRIVATE INFRASTRUCTURE COMMITTEE

Joe Bouchard

SCIENCE COMMITTEE

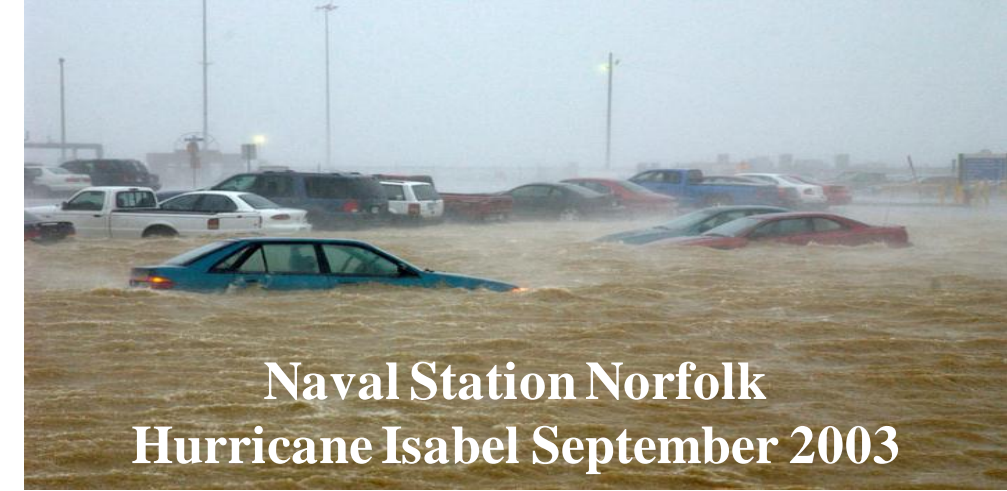
Larry Atkinson/
Carl Hershner



Questions and Discussion



Langley Air Force Base
Hurricane Isabel September 2003

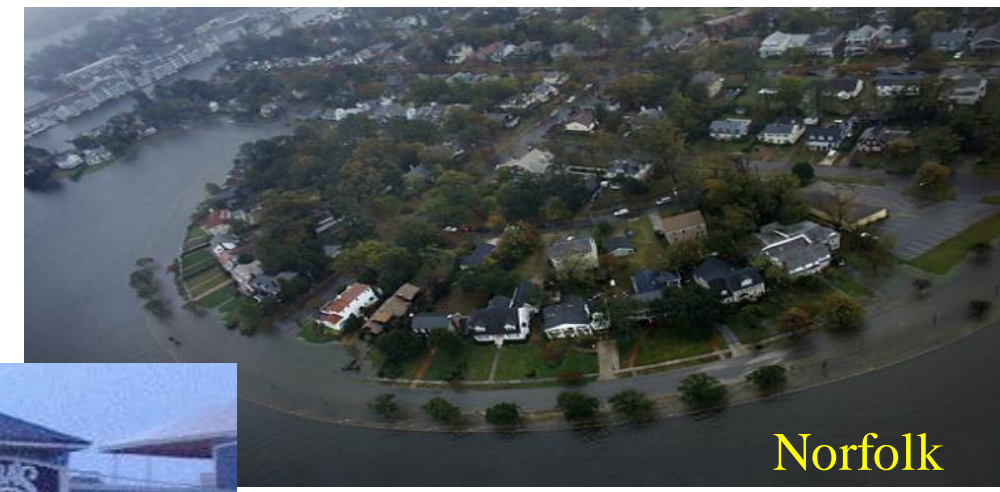


Naval Station Norfolk
Hurricane Isabel September 2003

*We are all
in this together*



Portsmouth



Norfolk



Virginia Beach