



OLD DOMINION
UNIVERSITY

IDEA FUSION



Hampton Roads Planning District Commission
President John R. Broderick
March 19, 2015



Old Dominion University Snapshot



- 24,932 students
- 129,000 alumni across the globe
- Largest concentration of alumni in Hampton Roads, from any university, are ODU Monarchs
- ODU is one of the region's largest generators of new jobs
- A hub for groundbreaking research, innovation and economic growth, ODU contributes \$2.1 billion annually in GDP to the region



A Hub of Research and Economic Development



Research Hub



- Research strategy revolves around regional strengths and issues – federal labs, the port, Chesapeake Bay, military, health care, and sea level rise
- National Science Foundation Research Expenditures
 - Ranked **145th** overall
 - **55th** (of 640) among those without a medical school
- Key research areas have a direct impact on the economy and infrastructure of Hampton Roads and have created a national and international reputation for Old Dominion and our region

Sea Level Rise Initiative



- Old Dominion University's Climate Change and Sea Level Rise Initiative brings the University's and the region's foremost experts together to find solutions to the challenges facing Hampton Roads and other coastal regions globally.



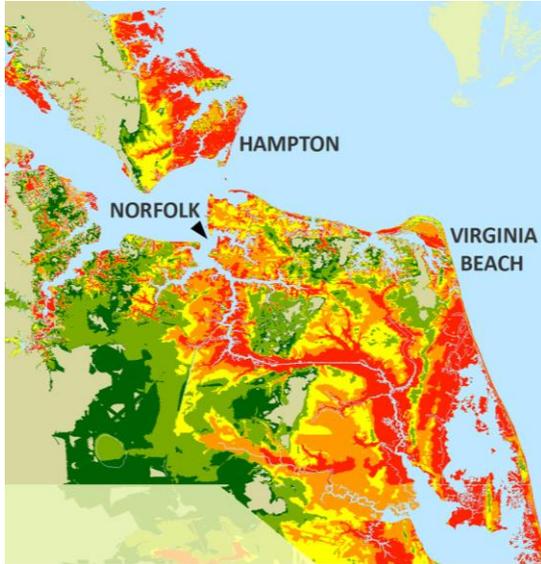
Sea Level Rise Research



- Multidisciplinary effort:
 - Economic impact
 - Disaster preparedness
 - Resilience of critical infrastructure
 - Insurance and risk management
 - Public health
 - Engineering and construction solutions
 - Land use planning, and more



Sea Level Rise Research



- ODU researcher discovered “hot spot” of accelerated rise that affects Hampton Roads
- Established the Climate Change and Sea Level Rise Initiative in 2010
- World-renown ODU scholars, researchers and practitioners tackle all aspects of sea level rise
- Use knowledge gained locally to educate others in coastal cities around the globe





Intergovernmental Pilot Project



Mission



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



Vision



- Convene intergovernmental planning organization
- Effectively coordinate preparedness and resilience planning
- Incorporate perspectives and concerns of region's citizens



Challenges and Opportunities



- Hampton Roads is already impacted by sea level rise; expected to continue into next century
- Without preparedness, sea level rise impact has serious consequences for our region
- Regional planning requires coordination at federal, state, local government and private sector levels

White House-Sponsored Pilot



■ **Origins:**

- 2007 – City of Norfolk assessment
- 2009 – Hampton Roads Planning District Commission assessment
- 2010 – ODU launches Climate Change and Sea Level Rise Initiative
- 2010 – President Obama issues Whole of Government challenge
- 2012 – Oceans 2012 Conference
- 2012 – Superstorm Sandy
- 2013 – President's Climate Change Executive Order

Progress



- 2014 – TechSurge
- 2014 – Mitigation and Adaptation Research Institute
- 2014 – “Rising to the Challenge” Bipartisan Forum
- 2015 – White House-sponsored “Whole of Government” Table-top Exercise
- 2015 – FEMA Listening Session for East Coast
- 2015 – Public Hearing for HUD’s National Disaster Resilience Competition

University Role



OLD DOMINION UNIVERSITY
THE CENTER FOR SEA LEVEL RISE
Homebase For Intergovernmental Pilot Project

ABOUT THE PILOT PROJECT | ABOUT SEA LEVEL RISE | RESEARCH + RESOURCES | WHO'S INVOLVED | EVENTS | NEWS | CONTACT

MILITARY IMPACT | RESIDENTIAL IMPACT | MUNICIPAL IMPACT | ECONOMIC IMPACT

SEA LEVELS HAVE RISEN 14 INCHES SINCE 1930
NEIGHBORHOODS, ROADS, CHURCHES & BUSINESSES ARE IMPACTED 1st TO FEEL THE EFFECTS
HAMPTON BY ROADS IS #2 LARGEST POPULATION CENTER AT RISK

- National hub of research on sea level rise and resiliency
- “Whole of government” coordination, planning and policy
- Neutral party to incubate intergovernmental solutions
- Serve as center for intellectual capital; develop solutions
- Identify region’s needs and take action



Key Partners



White House

- Center for Environmental Quality
- National Security Council
- Office of Science and Technology Policy

Federal

- Bureau of Ocean Energy Management
- Department of Defense
- Department of Education
- Department of Energy
- Department of Homeland Security
- Department of the Interior
- Department of Transportation
- EPA
- FEMA
- HUD
- NASA
- NOAA
- U.S. Army Corps of Engineers

State

- Secretary of Natural Resources
- Virginia Institute of Marine Science
- Virginia Coastal Policy Clinic
- Virginia Port Authority

Local

- City of Norfolk
- City of Virginia Beach
- HRPDC

Private

- Huntington Ingalls



OLD DOMINION
UNIVERSITY

IDEA FUSION



Hampton Roads Planning District Commission
President John R. Broderick
March 19, 2015

