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Research and Resources

Center for Sea Level Rise, Old Dominion University

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THE CENTER FOR SEA LEVEL RISE

RESEARCH + RESOURCES



- The Virginia Department of Housing and Community Development has a comprehensive list of [Hampton Roads vulnerability and risk assessment studies](#).
- The [Yale Climate Opinion Maps](#) are an interactive mapping tool, released in April 2015, that “allows users to visualize and explore differences in public opinion about global warming in the United States.”
- [Sea Change: 2015 to 2025 Decadal Survey of Ocean Sciences](#)– A report by the National Academies of Sciences. (Download free)
- [Understanding Virginia’s Vulnerability to Climate Change](#)– A report from MARI and the Georgetown Climate Center
- City of Norfolk’s [Coastal Resilience Strategy](#)
- The [North Atlantic Coast Comprehensive Study Report and Related Documents](#), released January 2015 by the U.S. Army Corps of Engineers
- The Department of Defense [2014 Climate Change Adaptation Roadmap](#)
- Programs of the [NOAA Coastal Services Center](#)
- [“From the extreme to the mean: Acceleration and tipping points of coastal inundation from sea level rise”](#) by William V. Sweet and Joseph Park. Released in December 2014, the study suggests a relative tipping point of 30 days per year of nuisance flooding for many East Coast areas, including Washington, D.C., Wilmington, NC, Annapolis, MD and Norfolk, among others.
- A study released in November 2014 by Wetlands Watch states that fixing flood-damaged properties in Hampton Roads could cost \$431 million. Read the full study, [The Challenge of Mitigating Virginia’s Flooding and Sea Level Rise Impacts](#), and the introduction citing jobs numbers.
- [“Recommendations to the Secure Commonwealth Panel on the Issue of Sea Level Rise and Recurrent Flooding in Coastal Virginia”](#) Released Sept. 5, 2014, the report

seeks to “provide strategic and tactical recommendations for how the Commonwealth can respond and otherwise adapt to the threat of recurrent flooding and sea level rise.”

- **“Climate Change and Existing Law: A Survey of Legal Issues, Past, Present and Future”** Sections “V: Sea Level Rise and Extreme Precipitation,” “VI: Other Adaptation Responses to Climate Change,” and “VII: Responding To and Rebuilding After Natural Disasters” are especially applicable.
- **“Coastal Resiliency: Adapting to Climate Change in Hampton Roads”** is a report released in July 2013 by NOAA, the Hampton Roads Planning District Commission, and the Virginia Coastal Zone Management Program.
- From the **Hampton Roads Transportation Planning Organization**:
 - **Prioritizing Highway Projects for Improvement of Hurricane Evacuation** (released March 2014)
 - The Military Transportation Needs study was released in three parts. The first study looked at an analysis of the roadway network for the military, and the second study looked at a survey that was done of military commuters. The third study looked at how sea level rise/storm surge would be expected to impact roadways serving the military. Each of these studies can be downloaded from the links below.
 - Part I – **Highway Network Analysis**
 - Part II – **Military Commuter Survey**
 - Part III – **Roadways Serving the Military and Sea Level Rise/Storm Surge**
- **“Risk Quantification for Sustaining Coastal Military Installation Asset and Mission Capabilities,”** released in June, assesses risks to military installations due to sea level rise.
- The **Hampton Roads Planning District Commission** has a three-part study entitled “Climate Change in Hampton Roads”:
 - **Impacts and Stakeholder Involvement** (Phase I, released in February 2010)
 - **Storm Surge Vulnerability and Public Outreach** (Phase II, released June 2011)
 - **Sea Level Rise in Hampton Roads, Virginia** (Phase III, released July 2012)
- The Mace and Crown, ODU’s student newspaper, **recently surveyed students on a variety of issues**, including how sea level rise affects campus.