

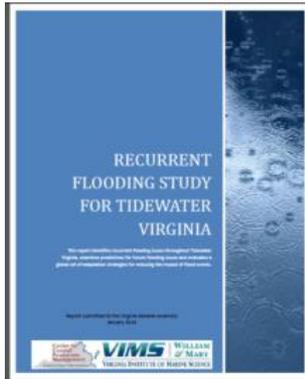
Secure Commonwealth Panel



SCP Recurrent Flooding Sub-Panel

Co-Chair Jim Redick

October 21, 2014



RECOMMENDATIONS TO THE SECURE COMMONWEALTH PANEL ON THE ISSUE OF SEA LEVEL RISE AND RECURRENT FLOODING IN COASTAL VIRGINIA

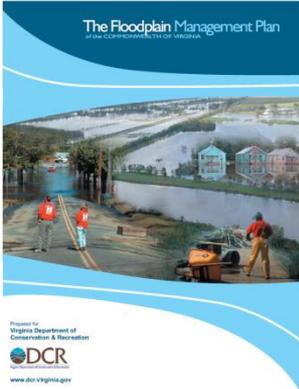


SUBMITTED TO THE HONORABLE BRIAN MORAN SECRETARY, PUBLIC SAFETY AND HOMELAND SECURITY CHAIR, SECURE COMMONWEALTH PANEL

BY THE RECURRENT FLOODING SUB-PANEL

CO-CHAIR SENATOR JOHN WATKINS
CO-CHAIR MR. JIM REDICK, MPA, CEM

SEPTEMBER 5, 2014



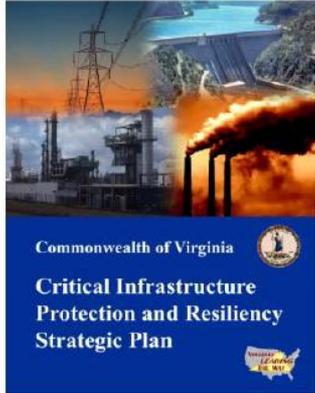
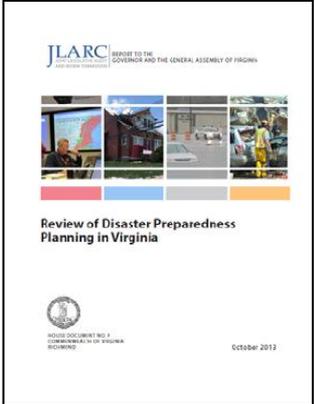
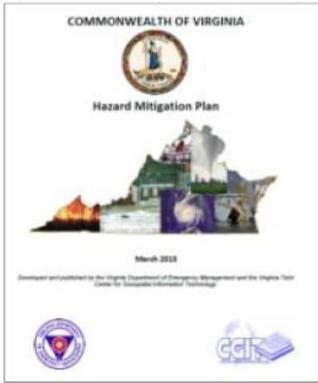
GOVERNOR'S COMMISSION ON CLIMATE CHANGE

Final Report: A Climate Change Action Plan



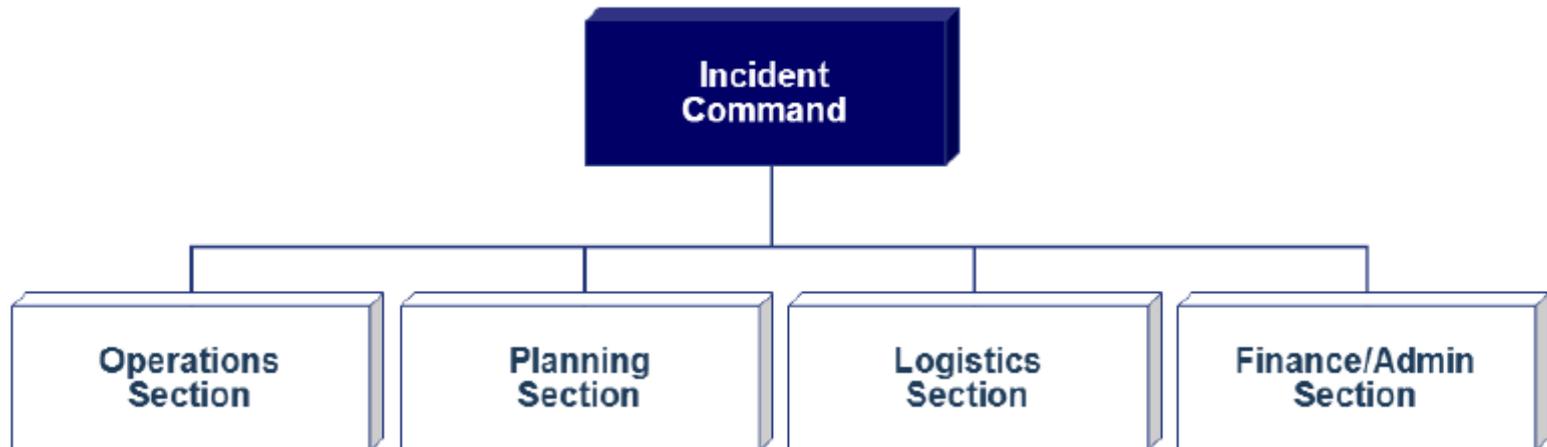
December 15, 2008

The Honorable L. Preston Battle, Jr.
Secretary of Natural Resources
Chair, Governor's Commission on Climate Change

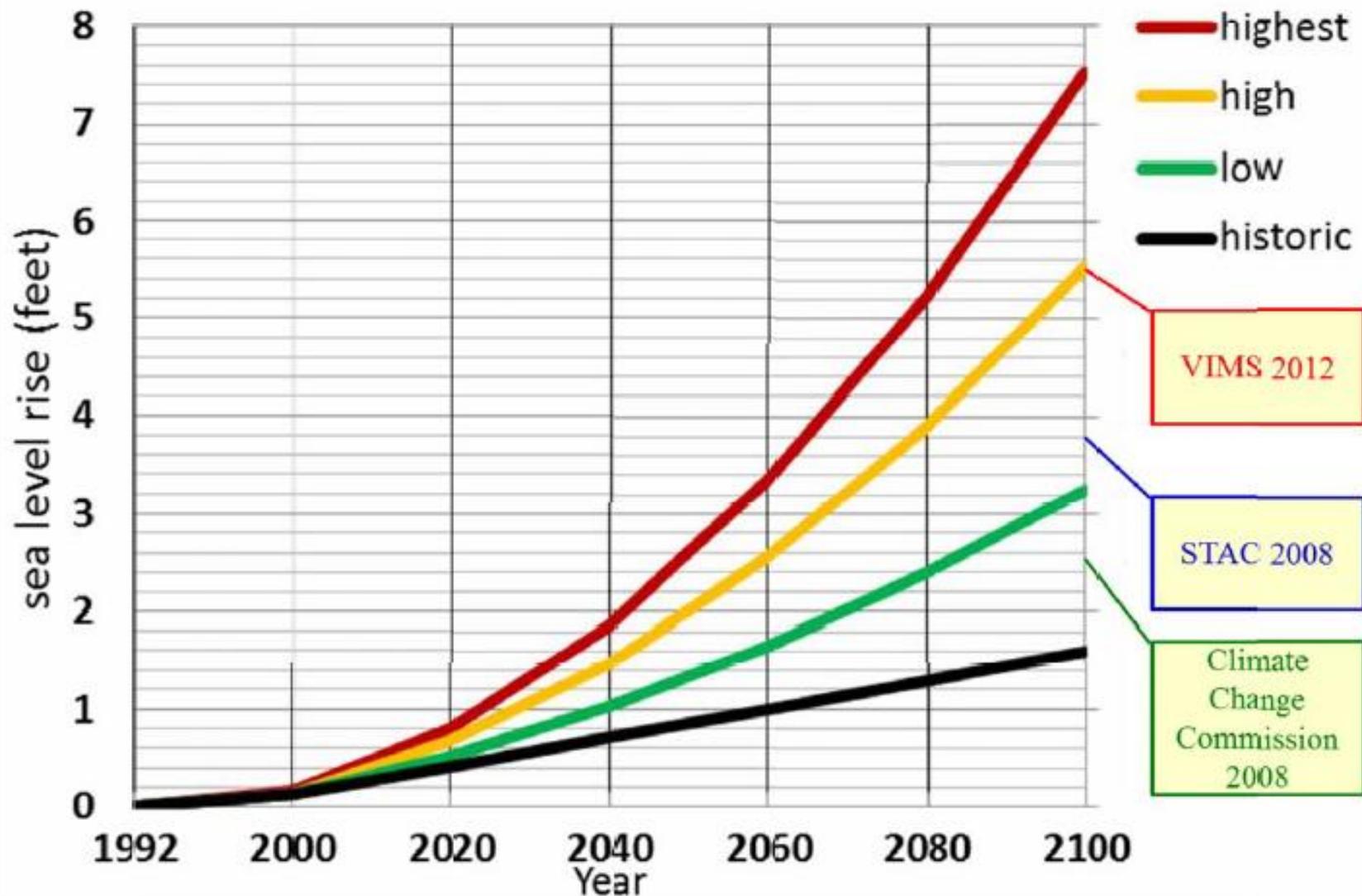


Incident Command System Approach

- Establishing a “Resilience Coordinator”
 - Full Time focus
 - Positioned in State-Level Office
- Establishing a 4-Year Action Plan Cycle
 - Utilizing the Floodplain Management Plan of the Commonwealth of Virginia



SE Virginia sea level rise scenarios





WARNING: Accepting 1.5' for planning is simply the first step to move toward action. It should be noted, however, the concept of planning for a certain SLR trajectory/level gives the false impression that there is a rational basis for deciding on what is a safe level. The next step is to take a scenario-based and probabilistic approach and using the full spectrum of what might happen in terms of SLR to assess the risk in any given location is a more rational approach to decision-making. It is more complex – much like the issue being addressed - but it can be done.



CAUTION: This 1.5' of Sea Level Rise is inundation only; it is important to remember the increased inundation caused by Sea Level Rise is not the only concern. Along with increased depth, duration and frequency of flooding, the threat includes total anticipated water level from storm surge, tidal activity, waves, freshwater input / precipitation and shoreline erosion. *Note: VIMS applied a 3' storm surge in their Recurrent Flood report (VIMS, p. 8).* Put differently, if using the 1933 Ash Wednesday Storm as the flooding storm of record, add 1 meter (3') to see how much more destructive the storm would have been today, and then in the near future. Additionally, planning and mitigation should be done with the *expectation* water will continue to rise in the future.



CAUTION: Lifespan of a project must be considered! Planning, for example, for a new power plant, a new land fill, other critical infrastructure, new residential areas with lifelines of more than a century, a very different approach is needed than accepting just 1.5' of SLR.

Recommendations for the SCP Moving Forward

Continue the SCP

Recurrent Flooding Sub-Panel

- Keep the momentum and partnerships
 - Leverage Silver Jackets
- Identify Resilience Coordinator as recommended to lead the charge.
 - Leverage existing state-level position?
 - Mitigation Funds for Position? Other?
- Update the Floodplain Management Plan of the Commonwealth of Virginia = “Flooding Resilience Action Plan”
 - Assist with the development of project priorities and measures.
 - Pair potential funding with various projects
 - Synchronize Messaging for Individuals and Businesses
- Report to the SCP on the progress based on the goals and measures.

Identify Training and Awareness Opportunities Among Various Audiences

- Leverage USACE Silver Jackets website
 - One centralized Source for Information
- Establish a common and comprehensive understanding of the threat among the following:
 - American Planning Association, Virginia Chapter
 - American Public Works Association, Mid-Atlantic Chapter
 - Virginia 1st (Banking Sector focused on disaster planning)
 - Virginia Bankers Association
 - Virginia Association of Realtors
 - Virginia Association of Zoning Officials
 - Virginia Floodplain Management Association
 - Virginia Housing Commission
 - Virginia Property Insurance Association
 - Mortgage Bankers Association / Lenders
 - Appraisers
 - Insurance Sector
 - Developers

Continuing Education Credits? Professional Development?

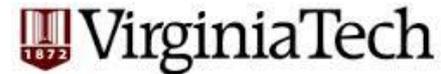
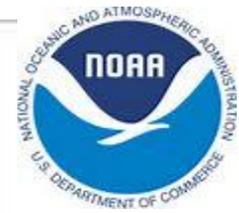
Revive Critical Infrastructure / Key Resources Sub-Panel

- Update the “Virginia Plan” to reflect strategies to protect against SLR.
- Use as a means to bring private sector to the table for voluntary / unified all-hazards planning standards and relationship building
- Leverage DHS Protective Security Advisor and VDEM’s Private Sector Liaison.

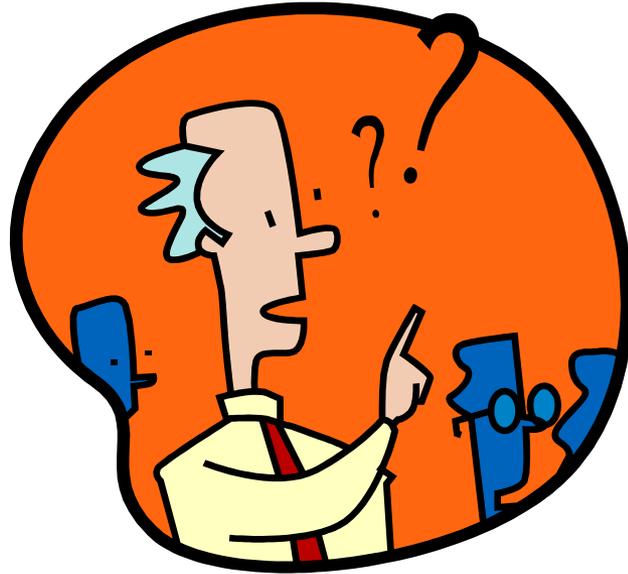
Support On-Going Initiatives

- General Assembly Joint Commission
- Governor's Climate Change Commission
- Old Dominion University's Pilot Project
- William and Mary Virginia Coastal Policy Clinic
December 5 Conference

Bottom Line...



Questions?



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