

Agenda Item #4 Coastal Resiliency Final Report

Presentation to the
Hampton Roads Planning
District Commission
June 20, 2013



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Virginia Coastal Zone
MANAGEMENT PROGRAM



Project Information

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- 1-Year Competitive PDC Grant from Virginia Coastal Zone Management Program
- Builds on (but is separate from) other grant-funded projects
- Three deliverables:
 - ▣ Incorporating SLR into local plans
 - ▣ Adaptive Management + SLR
 - ▣ Public Outreach + Coordination



Report Contents

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- 6 Sections plus Appendices
 - ▣ Sea Level Rise Science Update and Projections
 - ▣ Adaptive Management and Sea Level Rise
 - ▣ Incorporating Sea Level Rise Into Local Planning
 - ▣ Sea Level Rise Mapping
 - ▣ Public Education/Outreach and Coordination
 - ▣ Findings and Conclusions

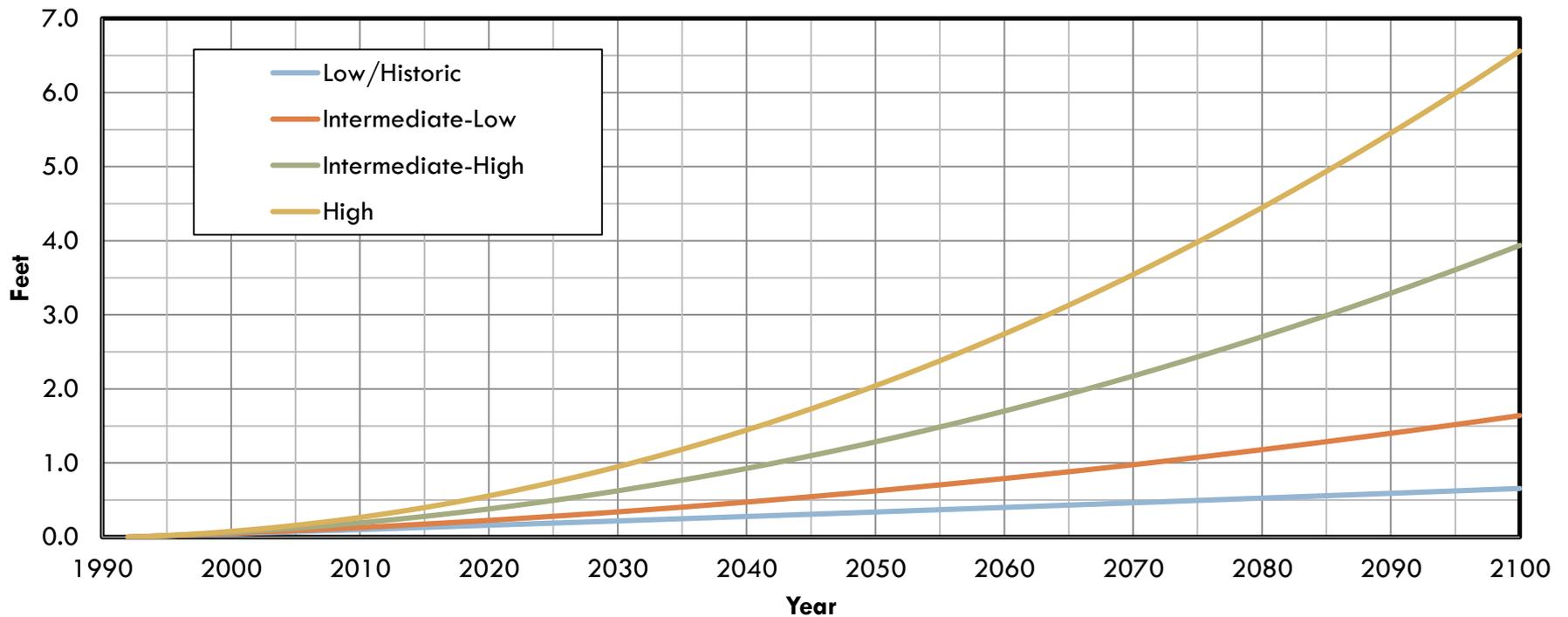
Sea Level Rise Science

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- Evidence now exists of accelerating sea level rise
- New global sea level rise projections have been released as part of the 2013 U.S. National Climate Assessment

Sea Level Rise – Global Projections

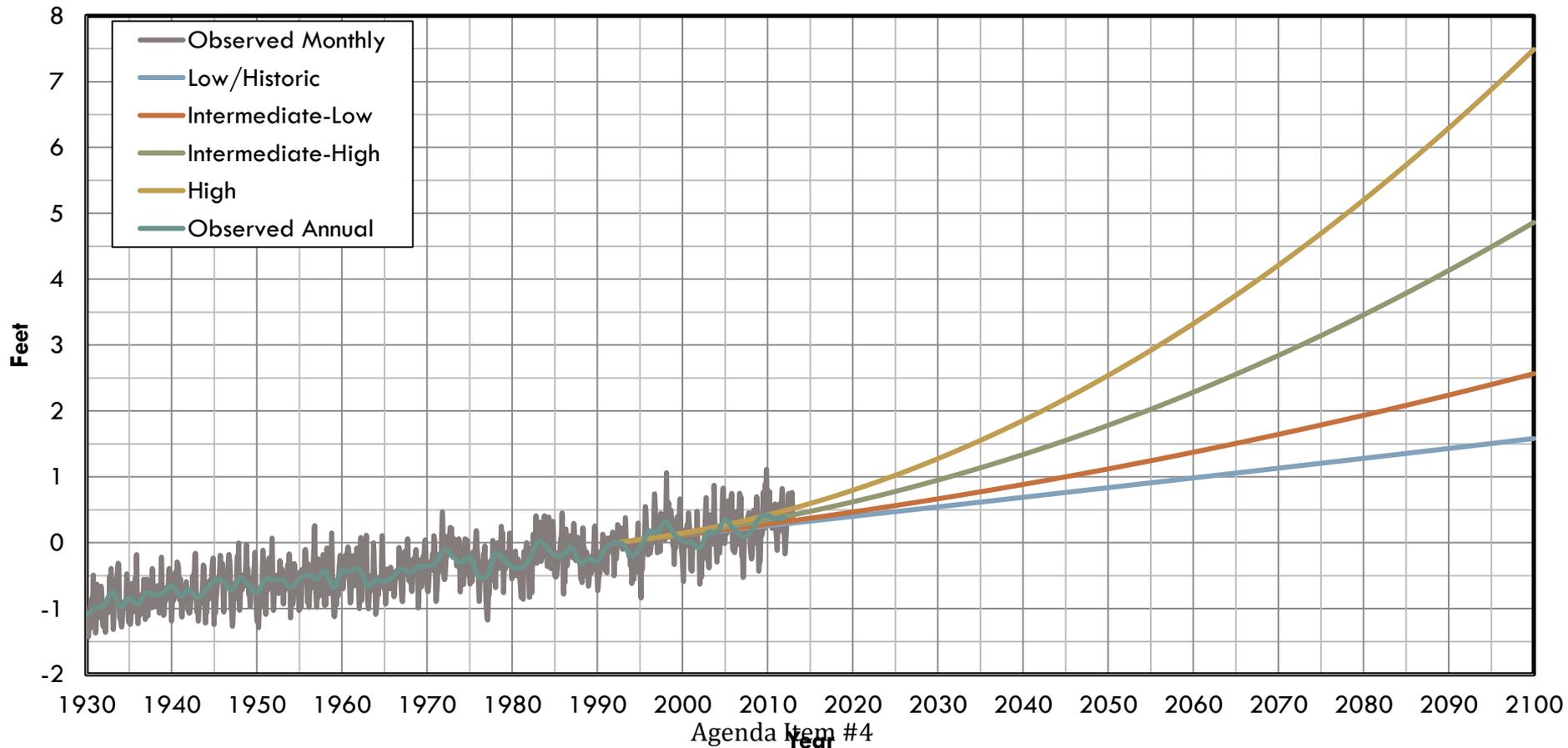
Projected Global Sea Level Rise 1992-2100



Sea Level Rise – Local Projections

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**Observed and Projected Relative Sea Level Change
at Sewells Point Tide Gauge, VA
1930-2100**



Planning for Sea Level Rise

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- Uncertainty inherent in sea level rise and other climate change projections requires using non-traditional planning techniques
- Scenario planning
 - ▣ Multiple possible futures
- Adaptive Management
 - ▣ “Learning while doing”

Sea Level Rise and Local Plans

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- Planning techniques that can help local governments plan for sea level rise
 - Build-out analysis
 - Mapping
 - Vulnerability analysis
 - Safe growth audits

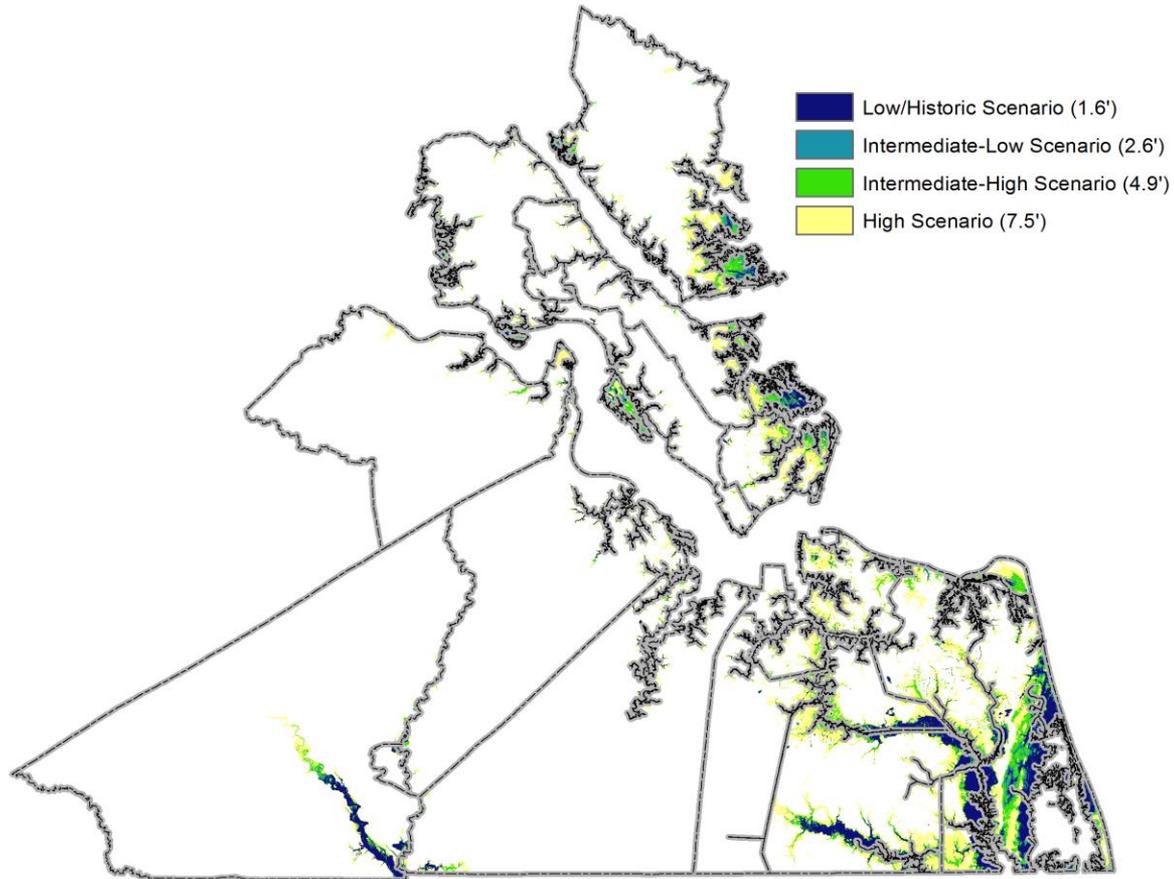
Sea Level Rise Inundation Maps

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- Issues with previous maps:
 - ▣ Coarse data
 - ▣ Large uncertainty due to collection and processing methods used
- New maps:
 - ▣ Based on best available data (mostly LIDAR)
 - ▣ Correspond directly to new sea level rise projections

Sea Level Rise Inundation Maps

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Questions?