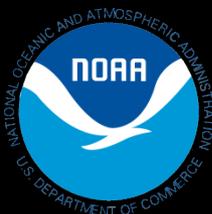


Coastal Hazards

Shep Moon
Moderator



Virginia Coastal Zone
MANAGEMENT PROGRAM



U.S. DEPARTMENT OF COMMERCE

Coastal Hazards

NOAA's State of the Coast "Population in the Floodplain" viewer
 NOAA's Coastal County Snapshots for Flood Exposure

Population in the Coastal Floodplain			
	2000	2010	Percent Change from 2000-2010
No. of people in coastal floodplain ³	450,000	490,772	9.1%
No. of people in coastal counties ⁴	4,173,003	4,730,951	13.4%
Percentage of people in coastal counties in coastal floodplain	10.8%	10.4%	-----

Coastal Hazards

NOAA's State of the Coast - Coastal Vulnerability Index

Vulnerability to Shoreline Erosion		
Vulnerability Ranking	Miles of Shoreline Vulnerable ¹¹	Percent of Coastline ⁶
Very low (>2.0m/yr) accretion	0	0
Low (1.0-2.0 m/yr) accretion)	0	0
Moderate (-1.0 to 1.0 m/yr) stable	94	4%
High (-1.1 to -2.0 m/yr) erosion	422	21%
Very high (<-2.0 m/yr) erosion	1,418	73%

Coastal Hazards

NOAA's State of the Coast - Coastal Vulnerability Index

Coastal Vulnerability to Historic Sea Level Rise		
Vulnerability Ranking	Miles of Shoreline Vulnerable ¹¹	Percent of Coastline
Very low	0	0
Low	0	0
Moderate	20	1%
High	684	35%
Very high	1229	63%

Coastal Hazards

Type of Hazard	General Level of Risk ⁸ (H, M, L)
Flooding (<u>riverine</u> , <u>stormwater</u>)	H
Coastal storms (including storm surge) ⁹	H
Geological hazards (e.g., tsunamis, earthquakes)	L
Shoreline erosion ¹⁰	H
Sea level rise ^{13,14,15}	H
Great Lake level change ¹⁴	NA
Land subsidence	M
Saltwater intrusion	M
Other (please specify)	

Coastal Hazards

Management Category	Employed by State or Territory (Y or N)	CMP Provides Assistance to Locals that Employ (Y or N)	Significant Changes Since Last Assessment (Y or N)
Statutes, regulations, policies, or case law interpreting these that address:			
<i>elimination of development/redevelopment in high-hazard areas¹¹</i>	N	N	N
<i>management of development/redevelopment in other hazard areas</i>	Y	Y	Y
<i>climate change impacts, including sea level rise or Great Lake level change</i>	Y	Y	Y
Hazards planning programs or initiatives that address:			
<i>hazard mitigation</i>	Y	Y	Y
<i>climate change impacts, including sea level rise or Great Lake level change</i>	Y	Y	Y
Hazards mapping or modeling programs or initiatives for:			
<i>sea level rise or Great Lake level change</i>	Y	Y	Y
<i>other hazards</i>	Y	Y	Y

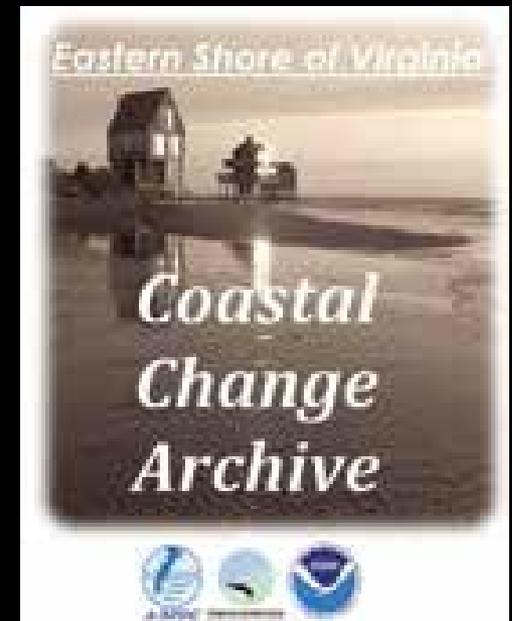
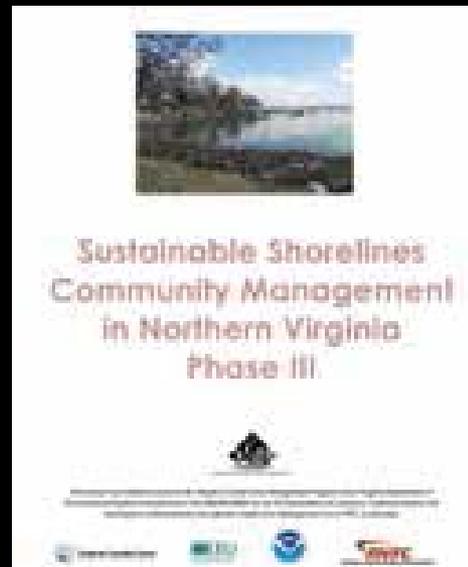
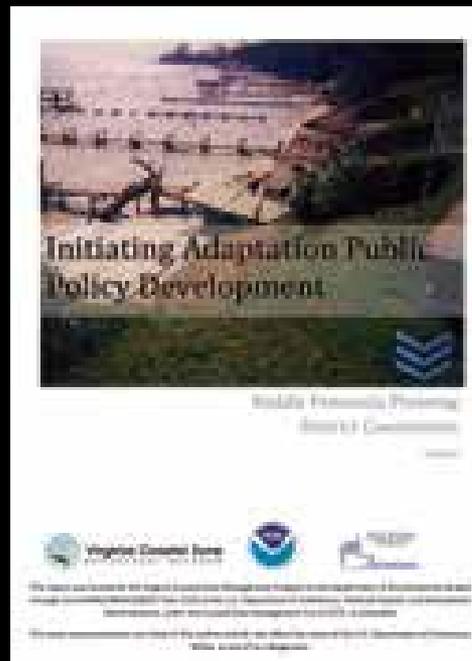
Coastal Hazards Management Characterization

State-level Initiatives

- VIMS Recurrent Flooding Report
- Recurrent Flooding Subpanel
- Recurrent Flooding Subcommittee
- Governor's Commission on Climate Change

Coastal Hazards Management Characterization

Regional and Local Climate Adaptation Planning



Coastal Hazards Management Characterization

- Living Shorelines Legislation and Shoreline Planning



Coastal Hazards

Management Characterization

- Local Implementation of the National Flood Insurance Program – Community Rating System

