WEATHER IT TOGETHER



savingplaces.org

The Annapolis Model for Cultural Resource Adaptation Planning

Weather It Together

A Local Model for Cultural Resource Adaptation Planning

Weather It Together is a public/private partnership to address the impacts of Climate Change and Sea Level Rise on historic and cultural resources in Annapolis, the Chesapeake Bay and the nation.



Project Partners

City of Annapolis Annapolis Partnership

 Maryland Emergency Management Agency Maryland Department of Natural Resources Maryland Dept. of the Environment Maryland Historical Trust National Oceanic and Atmospheric Administration National Park Service National Trust for Historic Preservation Preservation Maryland Union of Concerned Scientists United States Naval Academy United States Army Corps of Engineers Chesapeake Bay Foundation US ICOMOS Urban Land Institute

Weather It Together A State Model for Adaptation Planning



Maryland Commission on Climate Change

Prepared for: Larry Hogan, Governor, State of Maryland and the Maryland General Assembly

December 2015



"a plan of action that addresses the drivers and causes of climate change, to prepare for the likely consequences and impacts of climate change to Maryland and to establish firm benchmarks and timetables for implementing the plan of action."

Weather it Together "The Choice is Not Between Mitigation and Adaptation"

The ARWG is charged with developing a comprehensive strategy for reducing Maryland's climate change vulnerability through both short- and long-term measures that state and local governments may use to plan for and adapt to more extreme weather and a rise in sea levels due to climate change.





Weather It Together Impacts of Climate Change on Vulnerable Communities



Poorer individuals have a greater propensity to be harmed by climate change for a variety of reasons including "their livelihoods are more likely to depend on climate sensitive sectors or on low-income, informal or hourly jobs with little protection against climate-related employment disruptions."

Weather It Together

Building Resilience: A State Climate Action Plan Priority

- Work to increase and broaden public and private partnerships
- Address the challenge that low-income and otherwise vulnerable communities will likely be disproportionally impacted by climate change
- Assess the impacts that climate change will likely have on the state's economy, revenues and investment decisions
- Continue to deliver and refine tools and assistance for local governments



The Sea Fround Us

Rising Seas – Historical Trends in the North Atlantic

The recession of the northern glaciers is growing... the long trend is toward a warmer earth; the pendulum is swinging.

- Rachel Carson, scientist, ecologist and writer – The Sea Around Us (1952)

POCANITO CALL TO ACTION Climate Impacts and Cultural Heritage



"We call on policy-makers and government decision-makers at all levels to support communities in planning for a resilient future, including making informed choices, and assessing the costs of action and failure to act."



Thames Barrier - London

Historic Port Cities Structural Flood Barriers



Historic Seaport Cities Tokyo's Metropolitan Area Outer Underground Discharge Channel

Winding down a series of stairs, you soon come upon a massive hall, resembling an underground Parthenon, or a scene out of a science fiction film. -- Alex Zolbert, CNN

USIOFIC PORTERIES Org. for Economic Cooperation & Development

136 major port cities ranked for the impact of SLR projected to 2070.
Of the top 20, six are in the United States.
#1 - Miami with \$416 billion worth of assets.
#2 - New York/Newark at \$320 billion
#3 - New Orleans at \$233 billion.

OECD Environment Working Papers

Ranking Port Cities with High Exposure and Vulnerability to Climate Extremes

EXPOSURE ESTIMATES

R. J. Nicholls, S. Hanson, Celine Herweijer, Nicola Patmore, Stéphane Hallegatte, Jan Corfee-Morlot, Jean Château, Robert Muir-Wood

JEL Classification: Q01, Q54, Q58, Q53

OECD





Historic Scaports: Niami #1 Economy at Risk



\$3.51 trillion and 4.8 million people at risk by 2070





One of the at most risk cities on the East Coast, Norfolk has received government funds to raise one short stretch of road by 18 inches at a cost of more than a million dollars. Meanwhile, Norfolk Naval Base has 14 WWII piers that are estimated to cost \$35-40 million to replace.



High Tide on Main Street

Annapolis Prepares for Rising Seas



High Tide on Main Street

Resiliency Planning: Beyond Politics



Ice melts at 32 degrees. It doesn't care if you are a Republican or a Democrat.

-John Englander, oceanographer and author of *High Tide on Main Street*



ForumJournal

High Water and High

and Climate Change

Stakes: Cultural Resources



Candidates: How will you deal with sea level rise in our coastal states?



Learn more: ucsusa.org/DealWithIt

(c) 2015 Un on of Concerned Scientist extens or oldeks by party CRN pull September + 13, 207

Union of Concerned Scientists

Science: National Landmarks at Risk

National Landmarks at Risk

How Rhing Sean, Floods, and Wildfires Are Threasening the United States' Most Chertshed Historic States





Since 2001, Annapolis has had the highest average number of days a year above flood threshold at 34.

NOAA Technical Report

Studies: Sea Level Rise and Nuisance Flood Frequency Changes around the United States



Annapolis has experienced the greatest increase in nuisance flooding in the past 50 years (925%) going from an average of 3.8 to 39.3 days per year. In the next 50 years, nuisance flooding is estimated to occur more than once a

Union of Concerned Scientists Studies: Encroaching Tides

Encroaching Tides

How Sea Level Rise and Tidal Flooding Threaten U.S. East and Gulf Coast Communities over the Next 30 Years "In Annapolis, home to the U.S. Naval Academy, half a foot of water flooded the colonial district, a National Historic Landmark, at high tide on Chesapeake Bay during rainstorms on April 30, May 1 & 16 and Aug. 12."



Concerned Scientists

The Chesapeake Bay Research: Lost Landmarks



The Chesapeake Bay

Research: Lost Landmarks



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Holland, Hooper's and Sharp Islands – Last structures lost (2010)

Climate Change in Maryland

State Planning: Coast Smart Construction

Smith Island – Maryland's last inhabited Chesapeake Bay Island "Exceptions should be based on an analysis of the scope, function and importance of the project, including historic and cultural preservation considerations."



History: A Colonial Capital



- Nicholson lays out plan for Colonial Capital - 1695
- St. John's College (3rd oldest U.S. College) 1696
- Alex Haley's Kunta Kinte arrives *Lord Ligonier* - 1767
- Maryland State House (oldest state capitol) - 1772
- Home to Maryland's 4 signers of the Declaration of Independence - Carroll, Chase, Paca & Stone
- General George Washington
 Resigns Commission 1783
- First peacetime Capital -1783 to 1784
- U.S. Naval Academy established - 1845

Annapolis Historie Districts

Resources at Risk: Colonial Landmark District



National Historic Landmark District (1965)

Annapolis Historic District (1969, 1971, 1982)

National Register District (1984)

City of Annapolis / USNA

Risk Assessment: FEMA Flood Insurance Rate Map Current FIRM



Blue shading 1% annual chance (100-year) flood Orange shading is 0.2% annual chance (500-yr) flood



City of Annapolis / USNA

Risk Assessment: 2100 FIRM



Flood elevation 8.2 ft. 1% annual chance flood (4.5') plus 3.7 feet for sea level rise by 2100

Protecting Our Historic Seaport FENIA Hazard Witigation Planning



Integrating Historic Property and Cultural Resource Considerations Into Hazard Mitigation Planning

State and Local Mitigation Planning How-To Guide

FEM A 386-6 / May 2005



Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and manmade hazards.

 Organizing your efforts to develop a mitigation plan;
 Identifying hazards and assessing losses to your community;
 Setting mitigation priorities and goals and writing the plan;
 Implementing the mitigation plan, including project funding.

Step 1 - Organize Resources

Research: Flood Mitigation Studies

- Focus on protecting existing structures
- Study downtown to determine the costs and benefits of public decisionmaking in mitigating property damage
- Evaluate the need and options for protecting historic structures
- Require floodproofing to the extent feasible



FLOOD MITICATION STRATECIES FOR THE CITY OF ANNAPOLIS, MD: CITY DOCK AND EASTPORT AREA



Prepared for

City of Annapolis Department of Neighborhood and Environmental Programs

Prepared by

Whitney, Dailey, Cox & Magaani, LLC 849 Fairmount Ave Baltimore, Maryland 21226

March 2011

Step 1 – Organize Resources

Research: Comprehensive & Master Plans

Annapolis City Dock Master Plan A Framework to Guide Improvements & Redevelopment



"In conjunction with the development of a Hazard Mitigation Plan to protect historic resources... the City will explore and present to the City Council for consideration several strategies for addressing the 100 - year flood and sea level rise..."

Step 1 – Organize Resources Build the Planning Team



Organize your efforts to develop an effective mitigation plan... bringing together the appropriate planning team, consultants, technology, community support and financial resources.

Siep 1 – Organize Resources Engage the Public



agencies & organizations who meet regularly to discuss planning priorities, share findings, host public meetings and hear presentations from experts on climate change, flood mitigation, data management, flood mapping and modeling, flood insurance, cultural & natural resource survey and assessment and state policies.

Sigp 1 – Ofganize Resources Utilize the Necessary Technology (GIS)



Develop a database of historic survey, risk assessment and elevation information for City Dock and Eastport cultural resources.

					Date of Constructi		First Floor Elevation	Lowest Opening	Total Square	Number of Stories	
	142 DOCK ST	110	20600007808500	AA-548	1850	Attached Com	3.74	3.74	5720	2	No
	126 DOCK ST	113	20600000983200	AA-1239	1870	Commercial			6026	3	No
	136 DOCK ST	71	20000000109313	AA-457	1850	Commercial	1.76	1.70	4320	3	No
	132 DOCK ST	70	20600005265300	AA-457	1825	Commercial	3.17	3.17	2340	2	No
	130 DOCK ST	73	20600001100625	N/A		Commercial	2.06	2.00	730	1	No
	124 DOCK ST	153	20600006983200	AA-455	1000	Commercial	2.16	2.16	6026	3	No
	122 DOCK ST	162	20600006983200	AA-1239 AA-456	18/0	Commercial	2.16	2.16	6026	3	No
	120 DOCK ST	151	20500001157800	AA-416	1910	Commercial	2.04	2.04	1612	2	No
	118 DOCK ST	150	20600001100700	7/1 455	1891 1897	Commercial	2.04	2.04	3512	2	No
	110 DOCK ST	110	2060000142123	/V\ 455	1930	Commercial	3.22	3.22	31446	2	No
	12 DOCK ST	114	20500090019164	N/A	1960	Commercial	1.48	1.48	4550	2	Yes
	10 DOCK ST	130	1	B/A		Commercial			10556	2	No
	6 DOCK ST	124		AV 455	1940 s	Commercial	0.00	3.03	3246	3	No
	4 DOCK ST	80	20300006064160	AV 455	1974	Commercial	2.62	2.62	3950	9	No
	1 DOCK ST	1/	(BW		Commercial	3.57	3.57		2	Nu
	a DOCK ST	-11	20800003021968	N/A	1930	Commercial			10558	2,5	No
_	10 FAST ST	-14	20800002427500	N/A	N/A	Ciber	0.50	8.53	5076	1	NO
	16 FAST ST	20	20800002844800	AA 1800	1881 1097	Residential	9.61	7 86	2114	2	NO
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			2020.0000000000000000000000000000000000	11 504				7.00	1001		
	193 GREEN ST	100	2060000761000	A4-0/1	1819	Commercia	20130	(38	1/04		NO
	195 GREEN ST	130	20500003052500	N/A	a contraction	Germercia	1.020		4438	2	NO
	101 KING GEORGE ST	22	20552090030055	N/A	1050	Residential	0.05	9.55	1456	2	Yes
	149 KING GEORGE ST	23	20552090030055	A4- 1112	1860	Residential	0.65	9.50	1392	2	Yes
	147 KING GEORGE ST	20	20500090005540	AA-1111	1913-1921	Residential	0.30	6.30	1030	2	No
	145 KING GEORGE ST	24	20600090005139	AA 1110	1891 1897	Residential	6.11	7.11	1120	2	No
	143 KING GEORGE ST	1	2060000284/600	AA 1109	1891 1897	Residential	0.33	6.33	1204	2	No
	139 KING GEORGE ST	4	20600004289400	Pending	1885 1891	Residential	6.38	4.97	2558	2.5	No

Step 1 – Organize Resources

Secure the Necessary Financial / In-Kind Resources



- □ Maryland Historical Trust/SHPO (\$25,000)
- □ National Trust for Historic Preservation (\$25,000)
- **Preservation Maryland (\$4,000)**
- ☐ MD Dept. of Natural Resources/NOAA (\$48,000)
- Urban Land Institute, Baltimore Chapter (\$20,000)
- **USACE** (est. \$120,000+ in-kind)
- **MEMA/FEMA (\$106,000)**
- □ National League of Cities (\$10,000+)



Step 2 - Identify Hazards Chesapeake Storm & Tidal Flooding History





Tropical Cyclone Isabel: September 19, 2003







Step 2 – Identify Hazards

Identify & Map the Floodplain Study Area



Step 2 – Identify Hazards / Survey

Conduct a Cultural Resource Survey

18	A B	C	D	E	F	G	1 8	н 📘	J	к	L	M
		SDAT Ta z I D Number	HAZARD: Coastal Name and Address of Asset Subject to Hazard (same as previous Page	MHT Inventory Number (AA#)	Date of Construct ion	Type of Property / Type of Resource	Tota Squa Fool	l Number of are Stories tage	Structural System	Primary Exterior Materials of Property / Resource	Current Function / Use	Current Condition (Ezcellent / Good / Fair /Deteriora
1		06 000 00030807	1 Southgate Avenue	1450	1910 - 1915	Detached House	4901	Works	<mark>sheet</mark> /Addr	<u>: #3</u> ess of	Resou	urce
2		06 000 05035575	12 Fleet Street	1267	1875	Attached House / Duplex	840	Date c	of Con	struct	ion	
3		06 000 00143206	9 Pinkney Street	1241	1880	Attached House I Rowhouse	1336	Type cSquare	of Prop e Foot	oerty age		
4		06 000 03587510	18 Pinkney Street / Shiplap House	643	1713 / 1723	Detached House / Historic	2255	Struct	ural Sy	ystem		
5		06 000 02047510	130 Prince George Street / Sands House	652	1739 / 1765	Detached House	2740	PrimaCurrer	ry Ma [.] nt Fun	ction	;	
6		06 000 07808800	142 Dock Street / Stevens Hardware	458	1880	Attached Comm Bldg	5720	Currer Owner	nt Con	dition		
7		06 000 02423500	100 Main Street / A.L.Goodman	536	1908 - 13	Attached Comm Bldg	7354	Mitigati	on	est m		

Step 2 – Survey / Assess Risks

Assess Property Vulnerability

LO	OD HAZARD MATR	X									
	Street	OBJECT ID	SDAT	MHT Inventory	Date of Constructi on	Use	First Floor Elevation	Lowest Opening Elevation	Total Square Footage	Number of Stories	Basement
	5¥	-07	w			30		Si interesti interesti Si		<i>a</i> .	
		115	206000700000	AA 540	1000	Attached Com		274	5720		2 No
	142 DOCK ST	110	20600007808800	AA-048	1075	Commorcial	1 3.14	3.74	5720		2 No
	120 DOCK ST	71	2000000983200	AA-1239	10/0	Commercial	1 76	1 76	4220		2 No
	132 DOCK ST	70	2000000109313	AA-457	1825	Commercial	2.17	2.17	2340		2 No
	120 DOCK ST	70	20000003293300	MA-437	1025	Commercial	2.06	2.06	790		1 No
	124 DOCK ST	152	20000001100023	AA 455	1000	Commercial	2.00	2.00	6026		2 No
	122 DOCK ST	153	206000000000000000000000000000000000000	ΔΔ_1239 ΔΔ_456	1500	Commercial	2.10	2.10	0020		5 110
	120 DOCK ST	151	206000000000000000000000000000000000000	ΔΔ_456				_	- •		
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	12 DOCK ST	144	20600000142123	N/A							
	10 DOCK ST	138	2000000010104	N/A		Pronert	tv Vu	Ineral	oility ((High	
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	10 FLEET ST	61	20600002365950	AA-1266		.OSS OT	Func	tion /	Use (51	
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_	145 KING GEORGE ST	24	20600090005539	AA-1110	189		720				
	143 KING GEORGE ST	1	20600002847600	AA 1109	189						
		S									

Step 2 – Survey / Assess Risks

Complete a Non-Structural Mitigation Assessment



Nonstructural Mitigation Assessment for the City of Annapolis Historic District Annapolis, Maryland



Prepared for: City of Annapolis 145 Gorman Street, 3rd Floor Annapolis, Maryland 21401

Prepared by: Planning Division U.S. Army Corps of Engineers, Baltimore District P.O. Box 1715 Baltimore, Maryland 21203-1715 Nonstructural Mitigation Assessment for the City of Annapolis Historic District

2-2

FIGURE 2-1 BUILDING ELEVATION SURVEY POINT TYPES



Lowest adjacent grade in this example is the front left corner, the lowest point closest to where the water is coming from. Low opening in this example is the basement window, where water would first enter the building during flooding. First floor opening here is the front door, where the most damage would typically occur if flood waters reached this elevation.

DECEMBER 2014

Siep 3 – Sei Priorities Determine Community Value

Date:

Worksheet #4

Determine Community Value for Historic Property and Cultural Resource Assets

List the name and oddress of vulnerable historic properties and cultural assets. For each asset (row), fill in Columns 1 to 6. Define High, Medium, and Lose for Columns 3, 4, 5, 6, and 7 at the bottom of this worksheet (optional). Fill in Column 7 by qualitatively adding Columns 3 to 6. Enter the results of Column 7 in Column 16 of Worksheet #3.

	Column 1	Golumn 2	Column 3	Column 4	Column 5	Caturn 6	Column 7	
Name and Address of Asset	Historic Designation (National Register, Local Landmark, etc.)*	Geographic Context of Significance (National, Titbal/ State, Local)	Level of Significance (High, Medium, Low)	Public Sentiment (High, Medium, Low)	Economic Importance (High, Medium, Low)	Degree of Integrity (High Neclum, Low)	Tais Lovel al Community Valor of Los Macaum, Lon	
AUNAPOULS JANUER SAMONI HURATERS Las compression	NK AND	LOCAL						
GIBSONS LODDING	HE AND	STATIS			Norksh	eet #4		
MIDDLETONS TAVERN 2 WARKET GP	HR AHD	STATE	Histo	oric Des	ignatio	n (NR,	Local)	
PARTORS FON 24 MARKET ST	NR AND	Locart	Geographic Context of Significance					
lu revenu gt	NE AND	LOCAL	Leve	l of Sigr	nificanc	e (H/M	I/L)	
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LPOCK 9T			= 100	ai Leve	or Co	mmun	ity value	

3

Sigp 3 – Sei Prioriiles Assess Public Sentiment – Visual Preference Survey



Step 3 – Set Priorities

Assess Public Sentiment – Online Survey

The city needs to start immediately to create a plan to address the flooding, natural hazard issues.



Sigp 3 – Write the Plan Establish Goals & Objectives

Goal #1: Public and private property owners in Annapolis will incorporate hazard mitigation improvements into their routine maintenance, repair and rehabilitation projects to protect cultural resources from tidal flooding, sea level rise and other natural disasters.

Objective #1 - The City of Annapolis will develop and implement an economic development plan that will incentivize the protection of Historic District properties as an economic development priority for sustained growth and financial security.

Weather It Together

Sendai Framework for Disaster Risk Reduction 2015 - 2030

Goal: Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure.... and increase preparedness for response and recovery...

FEMA-Based Adaptation Strategies for Annapolis Land Use Planning & Building Codes Public Education & Engagement Natural Resource Protection Non-Structural Protection Structural Protection Policies & Incentives

Adaptation: Land Use Planning & Building Codes



- Density controls
- Design Review Standards
- Easements
- Floodplain Overlay Zoning
- Open Space Preservation
- Special Use Permits
- Subdivision &
 Development Regulations
 - **Development Regulations**
- Transfer of Development Rights
- Environmental Review
 Standards
- Building Codes
- Coastal Zone Management

Siep 3 – Write the Plan Adaptation: Public Education & Engagement



- Website / Social Media
- Branding
- High Water Markers
- Interpretive Kiosks
- Videos
- Media
- Publications



Adaptation: Public Engagement – Graphic Recording



www.Annapolis.gov/WeatherItTogether

Sign 3 – Write the Plan Adaptation: Natural Resource Protection



Adaptation: Non-Structural - Dry Floodproofing

Dry floodproofing involves sealing building walls with waterproof compounds and using shields (dams or perimeter barriers) to seal off doors, windows and other openings to keep the building watertight. This technique can only be used when the walls are strong enough to withstand the hydrostatic force of the water.



Adaptation: Non-Structural - Elevation

"Elevation may alter the appearance and scale of a historic building and redefine its relationship to its setting... If the building is raised only several feet, elevation should not severely alter scale."

"A preservation-sensitive alternative would be the elevation of floors within the building, particularly feasible in historic commercial structures with tall ceilings..."



Adaptation: Non-Structural/Structural-Barriers



Step 4 – Implement the Plan

Adaptation: Structural - Floodwalls

- Seek FEMA funding for model adaptation projects for priority properties in floodplain area.
- Work with Naval Academy to protect 4,500 linear feet of shared shoreline.
- Work with USACE to design for installation of backflow prevents at each sewer connection.
- Secure funding for floodwalls, coffer dams, pumping station, temporary pumps and valves.



Step 4 – Implement the Plan

Adaptation: Economic Policies & Incentives

City property tax credit applied to certified expenses for hazard mitigation / adaptation equal to 25% of rehabilitation cost on residential and income-producing properties (including interior improvements)



Sigp 4 – Implement the Plan Promote the Planning Methodology

"MHT is funding the project in part so that we can use it as a model for other communities throughout the state that have cultural resources threatened by sealevel rise." – Nell Ziehl, Chief of Planning



PreserveMaryland

Maryland Preservation Plan 2014



Maryland Historical Trust http://mht.maryland.gov



Weather It Together

2016 Maryland Historical Trust Preservation Award Excellence in Education and Community Engagement



WHAT PLACES MATTER MOST TO YOU?

WEATHER IT TOGETHER



KEPING

HISTORY

The Annapolis Model for Cultural Resource Adaptation Planning