## Building a Climate Resilient National Capital Region

Vulnerabilities Homework (due 10/30/13)

For Risks & Vulnerabilities – Built Systems – Workshop

(New date: Thursday, 11/14/13)

Product:

A description of the top 4 most climate-vulnerable built systems that are critical to carrying out your organization's goals and objectives; how they are impacted; and current and planned responses

## **Questions:**

- How are your organization's goals & objectives vulnerable in a light of a changing climate?
- Which 4 built systems are most at risk of impeding your goals and objectives now and in the future?

Complete one Homework Spreadsheet tab for each of your 4 most climate-vulnerable built systems. Note: You may not have all the information needed to fully characterize potential risks to your built assets; for now, use your best judgment.

	Name (address) and/or type of built system necessary to meet your organization's		
	mission/goals/objectives (could include services)*		
	Brief description of the built system and why it is one of your organization's top 4 (How does it enable		
	you to operate?)		
	What is the scale of the impact relative to the Gradual and Extreme Events categories listed below,		
	over several timeframes – today, in the 2020s and the 2050s? [Reference quantitative and qualitative		
	data in the Climate Information Handout and Charac	teriz	e Risks Webinar slides – referenced below.]
	Gradual changes:	Ext	treme events:
	<ul><li>Sea level rise</li></ul>	•	Sea level rise plus storm surge**
	<ul><li>Precipitation variability</li></ul>	•	Heavy precipitation
	<ul> <li>Higher average temperature</li> </ul>	•	Drought
		•	Heat Waves
	Classify the impact as minor, moderate or major		
	Identify the system's critical threshold - Document whether there is a critical point at which the		
system or asset is directly or indirectly affected by changes in climate variable (e.g., particul			·
	temperature or elevation threshold (e.g., physical fac	_	·
	levee height, etc.)		s, acsign standards, operational capacity,
	Describe the impact on the built system		
	Describe the impact on your organization's goals and objectives		
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Provide any other information you feel would be useful for those attending the Risks & Vulneral			_
	<ul> <li>Built Systems – Workshop on 10/30/13 (e.g., links t</li> </ul>	o us	seful documents, ability to provide studies or
	maps, etc.)		
ef	ferences and Documents – Posted at: http://www.m	אירנ	ng org/environment/climate/resilience asn
ı	Characterize Risks Webinar slides (with notes) (9/26/2		og.org/environment/enmate/resinence.asp
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1	Homework instructions and homework spreadsheet		
]	NASA Washington Metro Area Climate Information Handout		
	Climate Science Information Webinar – Slides and Recording (9/20/13)		

**Questions:** Christina Hudson, Leidos, 571-282-8896, <a href="mailto:christina.c.hudson@leidos.com">christina.c.hudson@leidos.com</a> **Submit Completed Forms to:** Sarah Lynagh, 703-676-5645, <a href="mailto:sarah.b.lynagh@leidos.com">sarah.b.lynagh@leidos.com</a>

Resilience & Adaptation to Climate Risks Workbook

Orientation Webinar slides (9/12/13)