

Dutch Dialogues

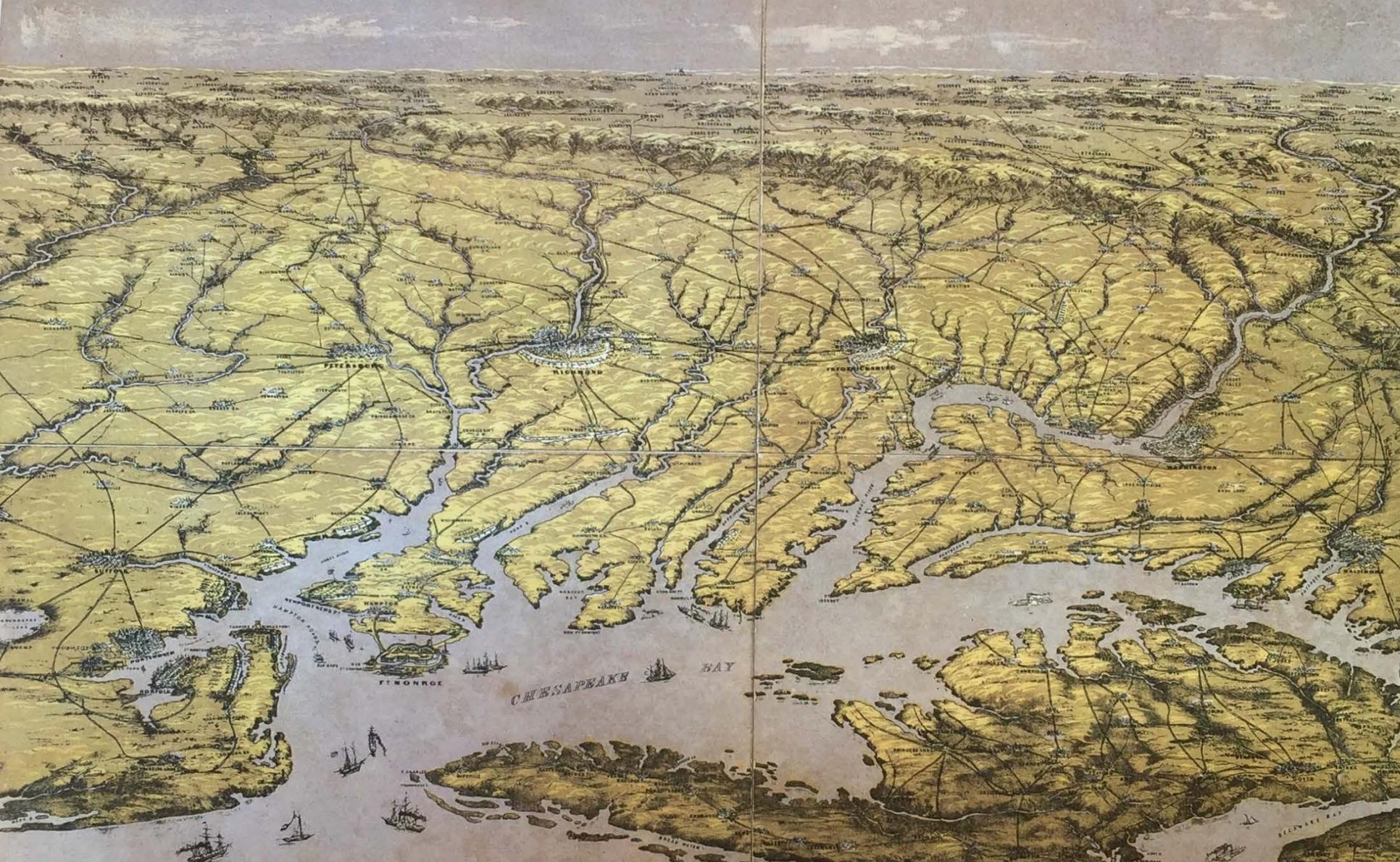
Virginia: Life at Sea Level

Agenda Item #5

HRPDC Quarterly Commission Meeting

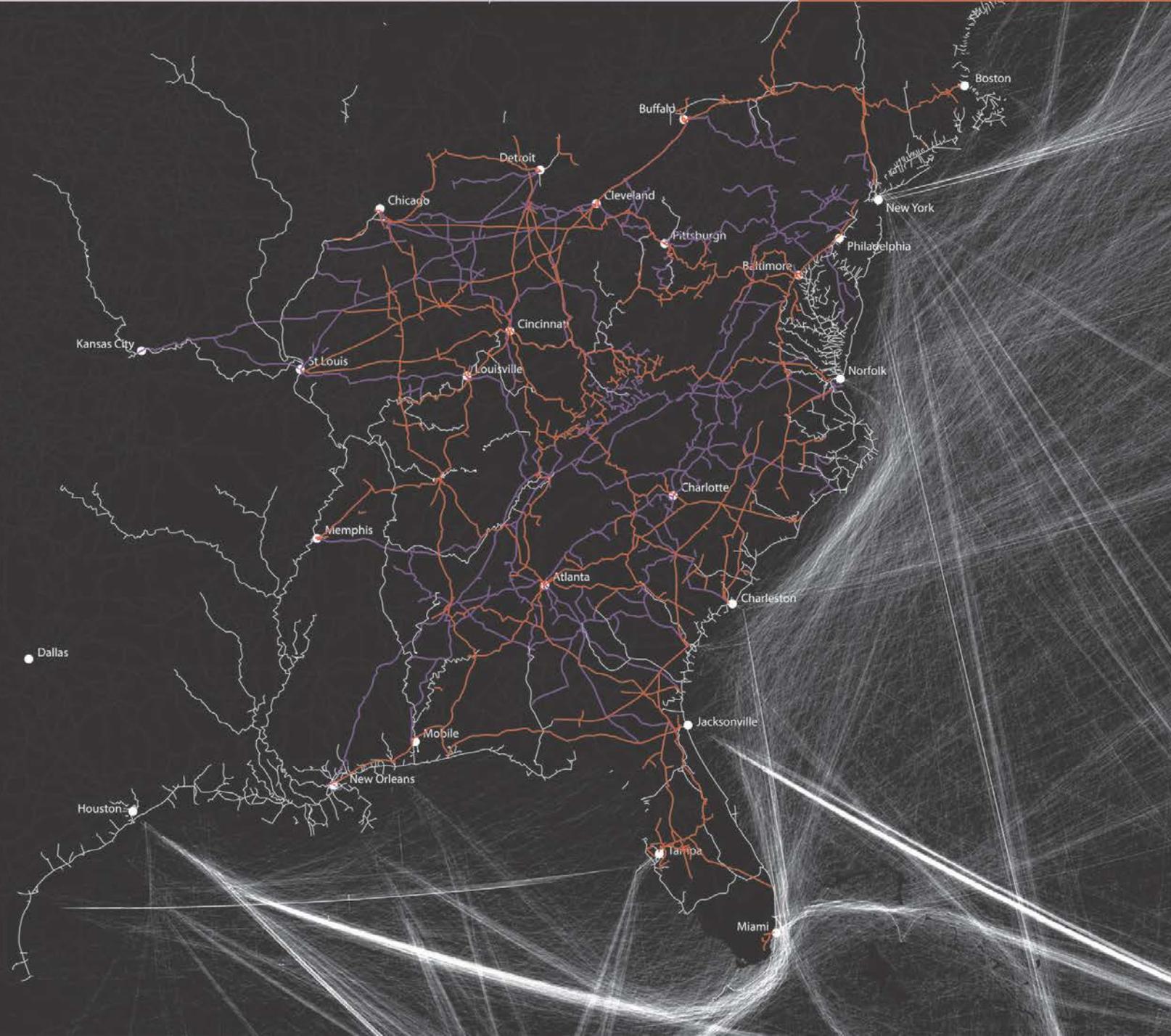
July 16, 2015

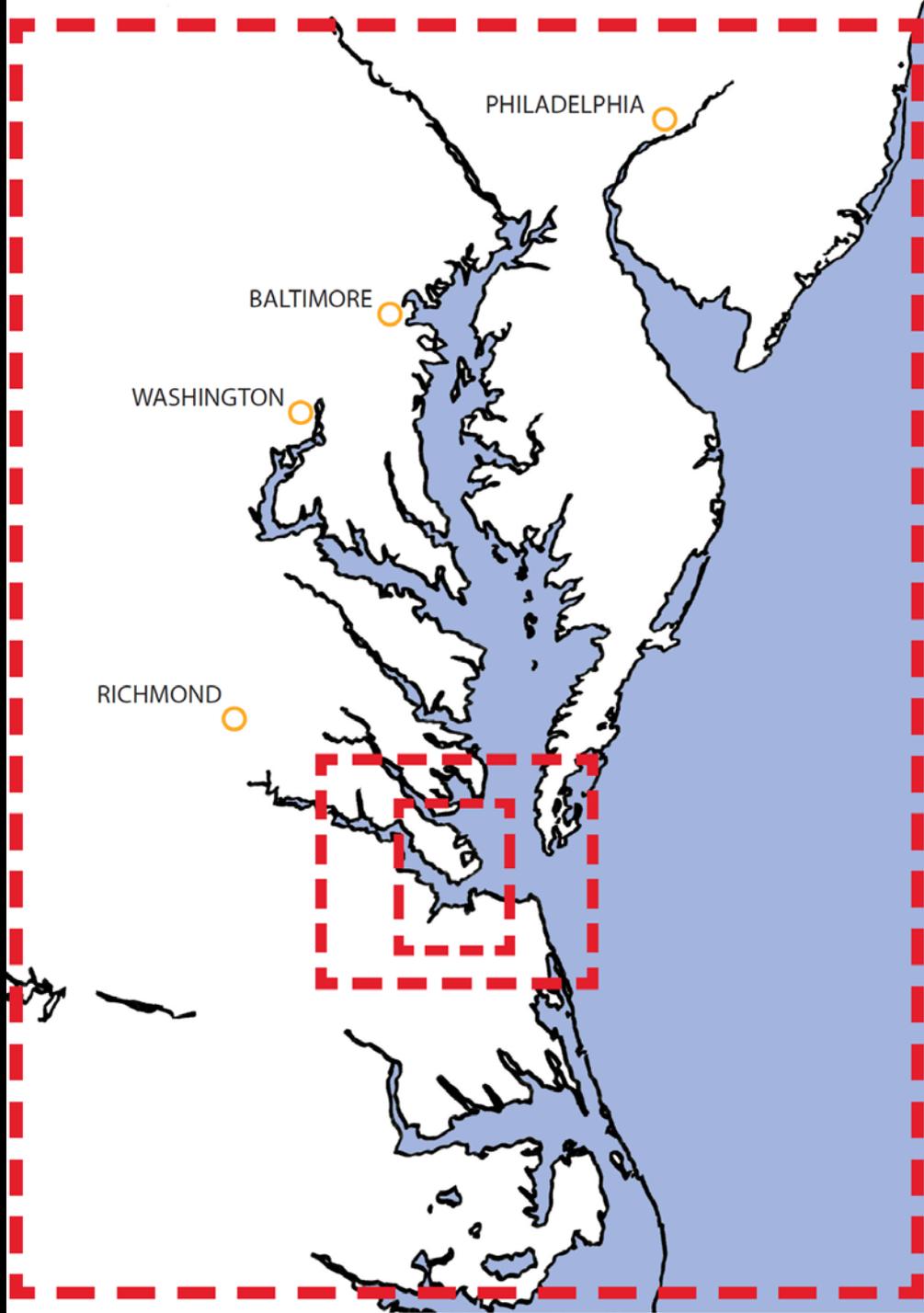


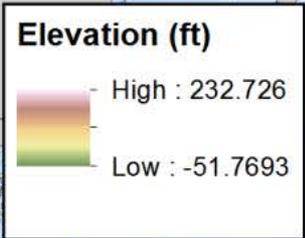
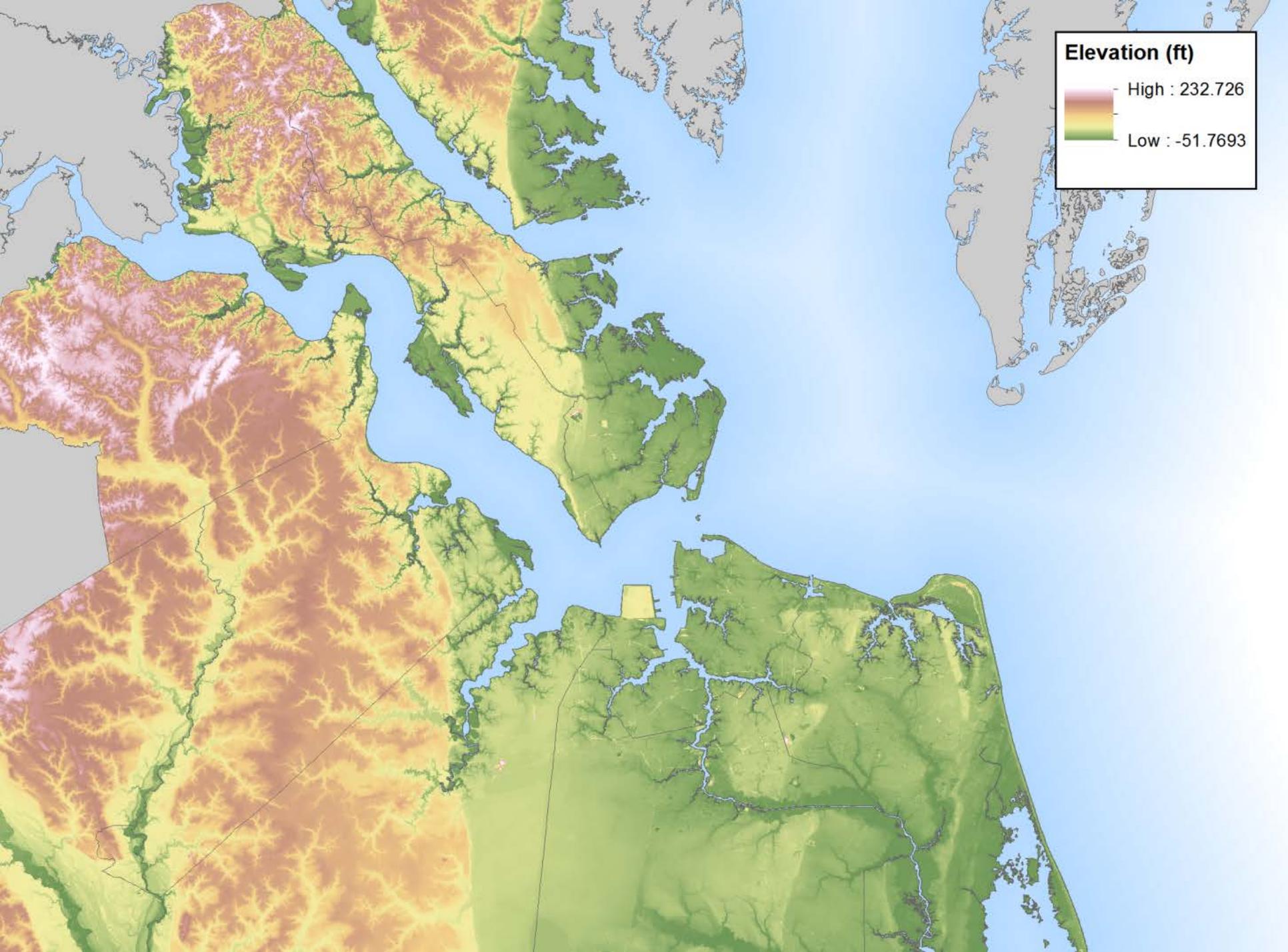


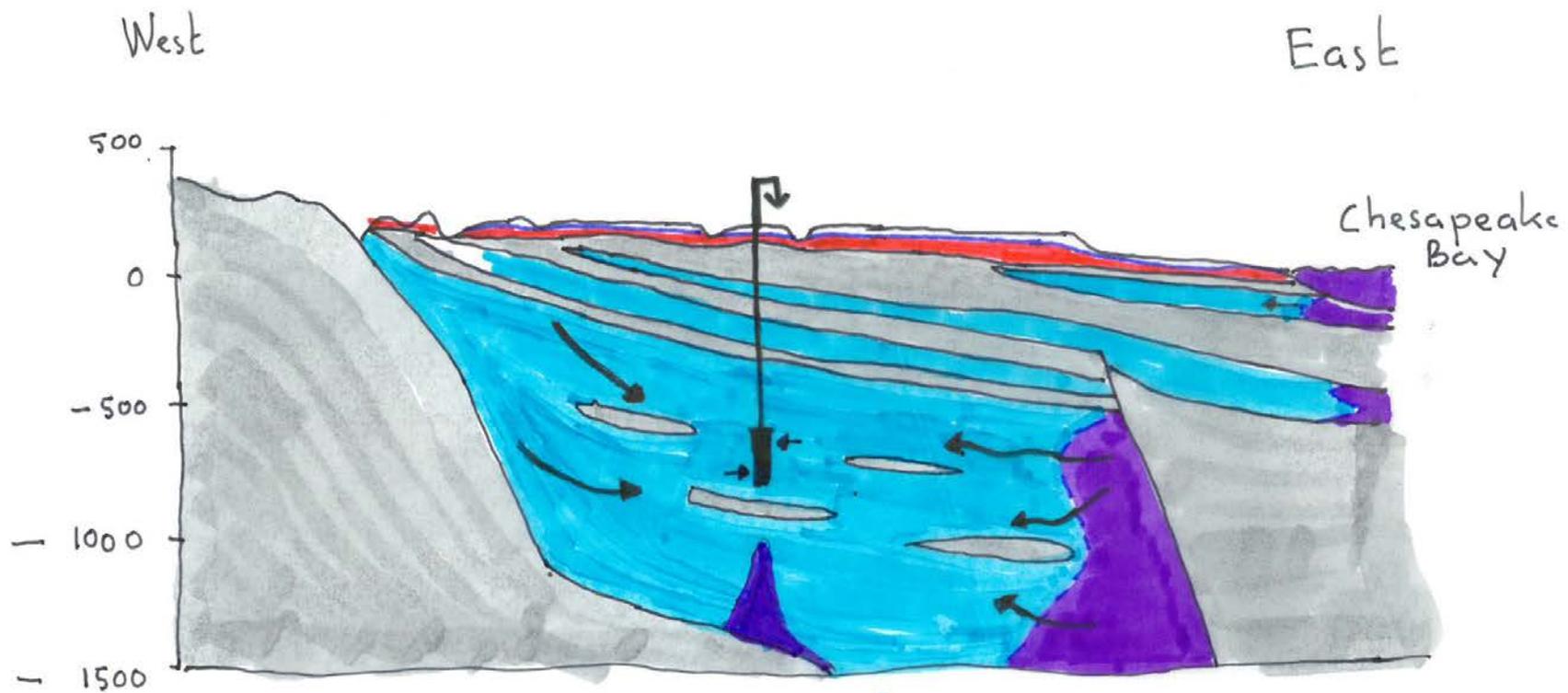
DUTCH DIALOGUES
Virginia: Life at Sea Level

- Navigable Waterways
- Railroads
- CSX Railroads
- Norfolk Southern Railroads









Polluted



Pristine (very old water!)

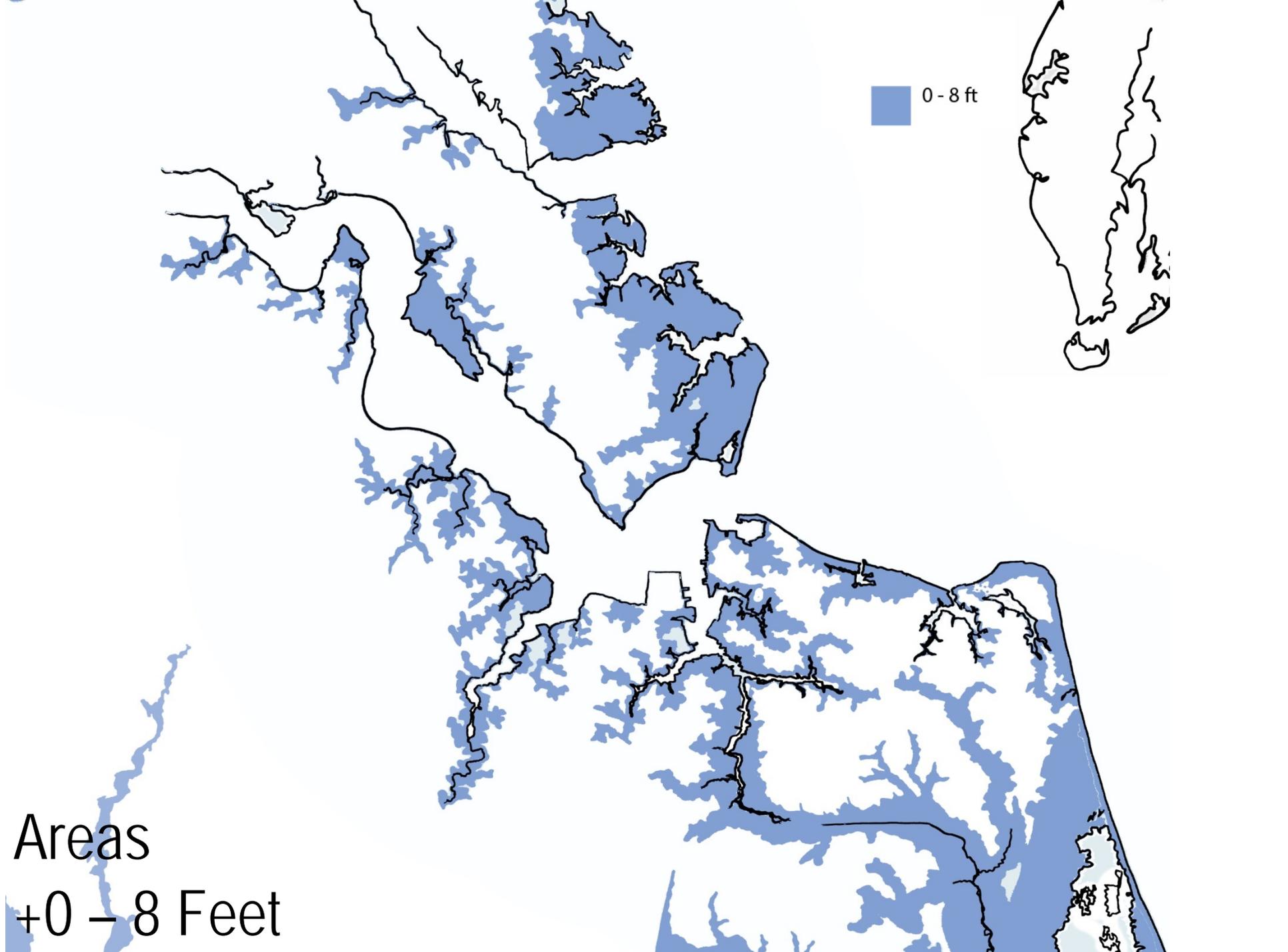


Salt



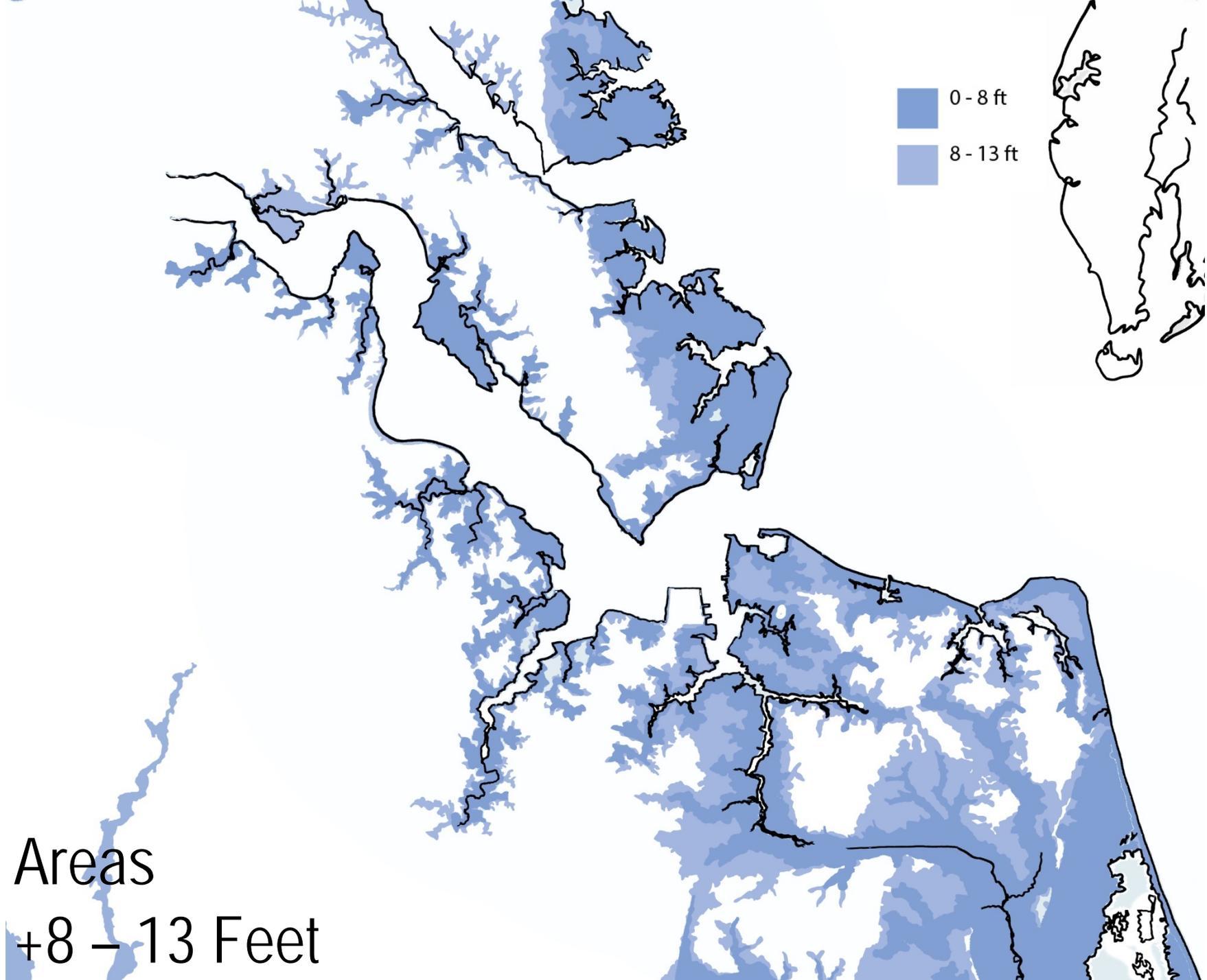
DUTCH DIALOGUES

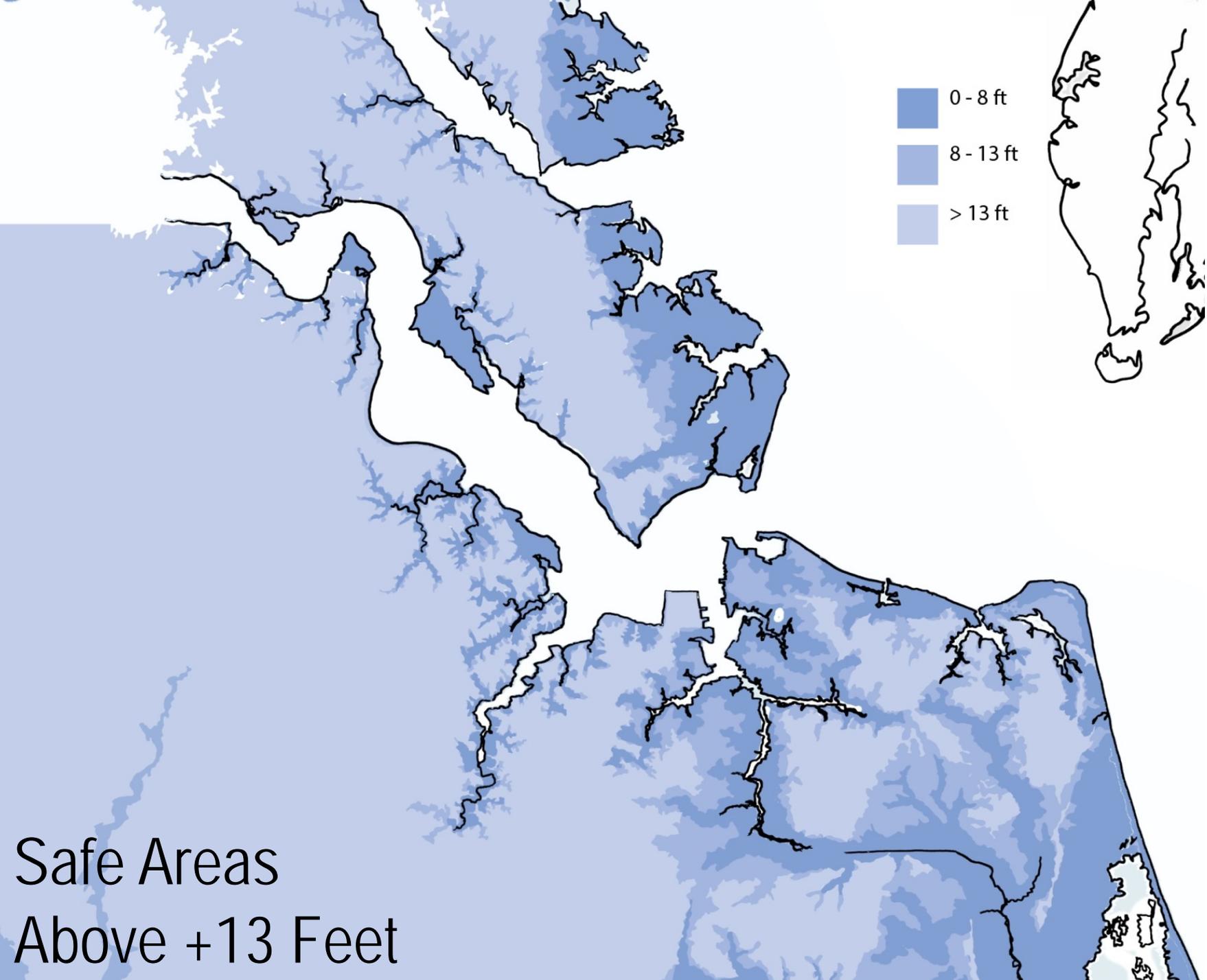
Virginia: Life at Sea Level

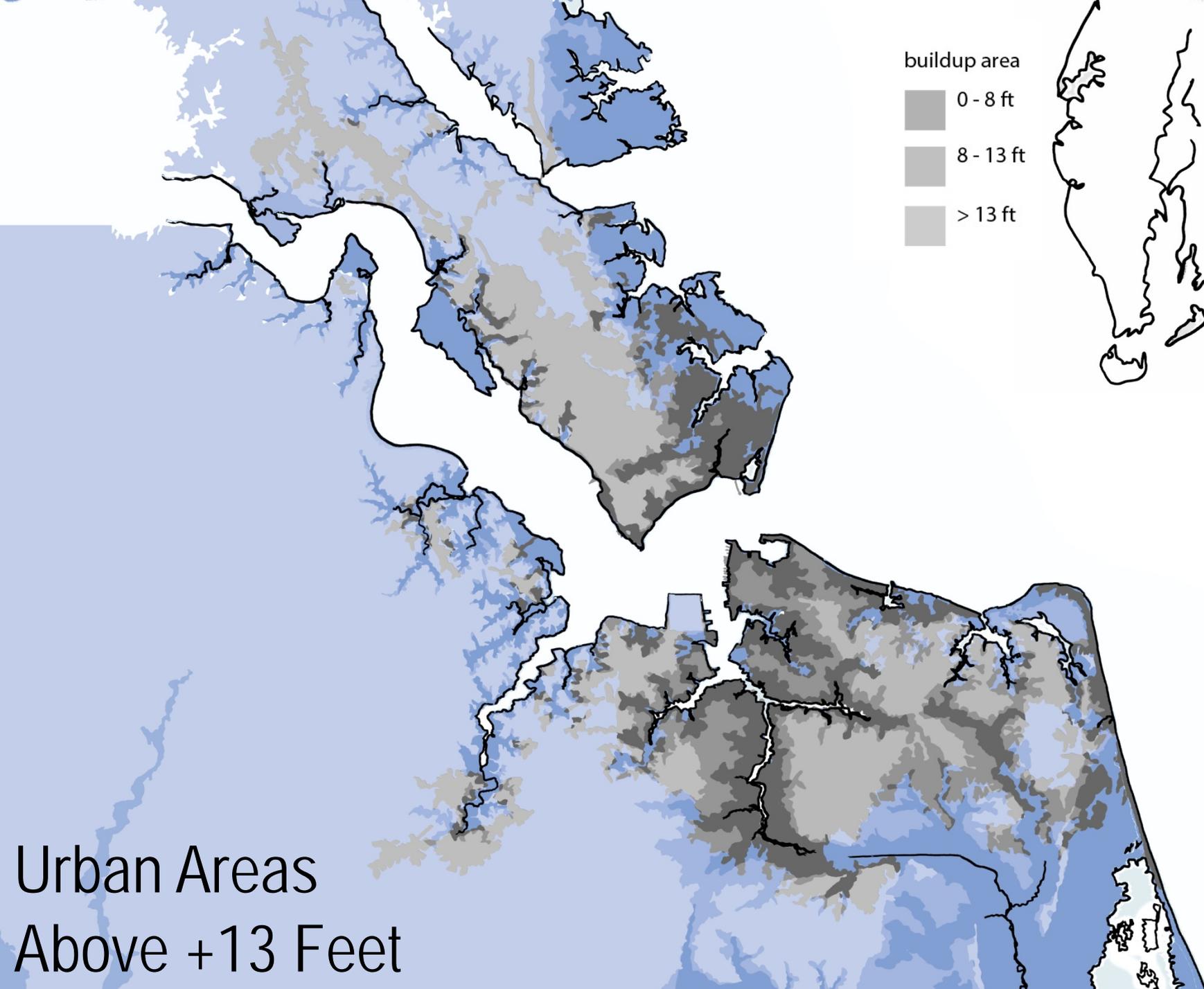


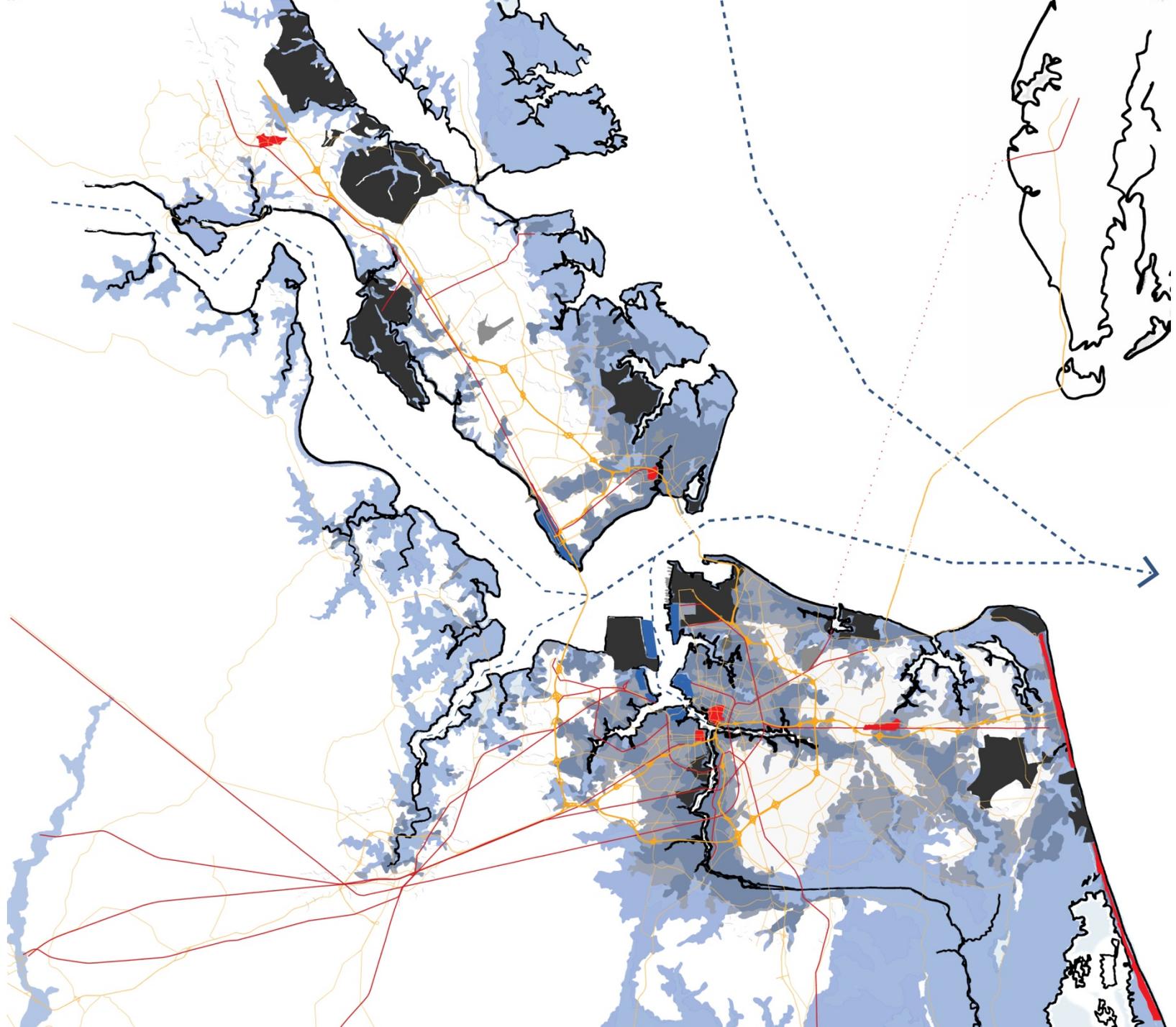
0 - 8 ft

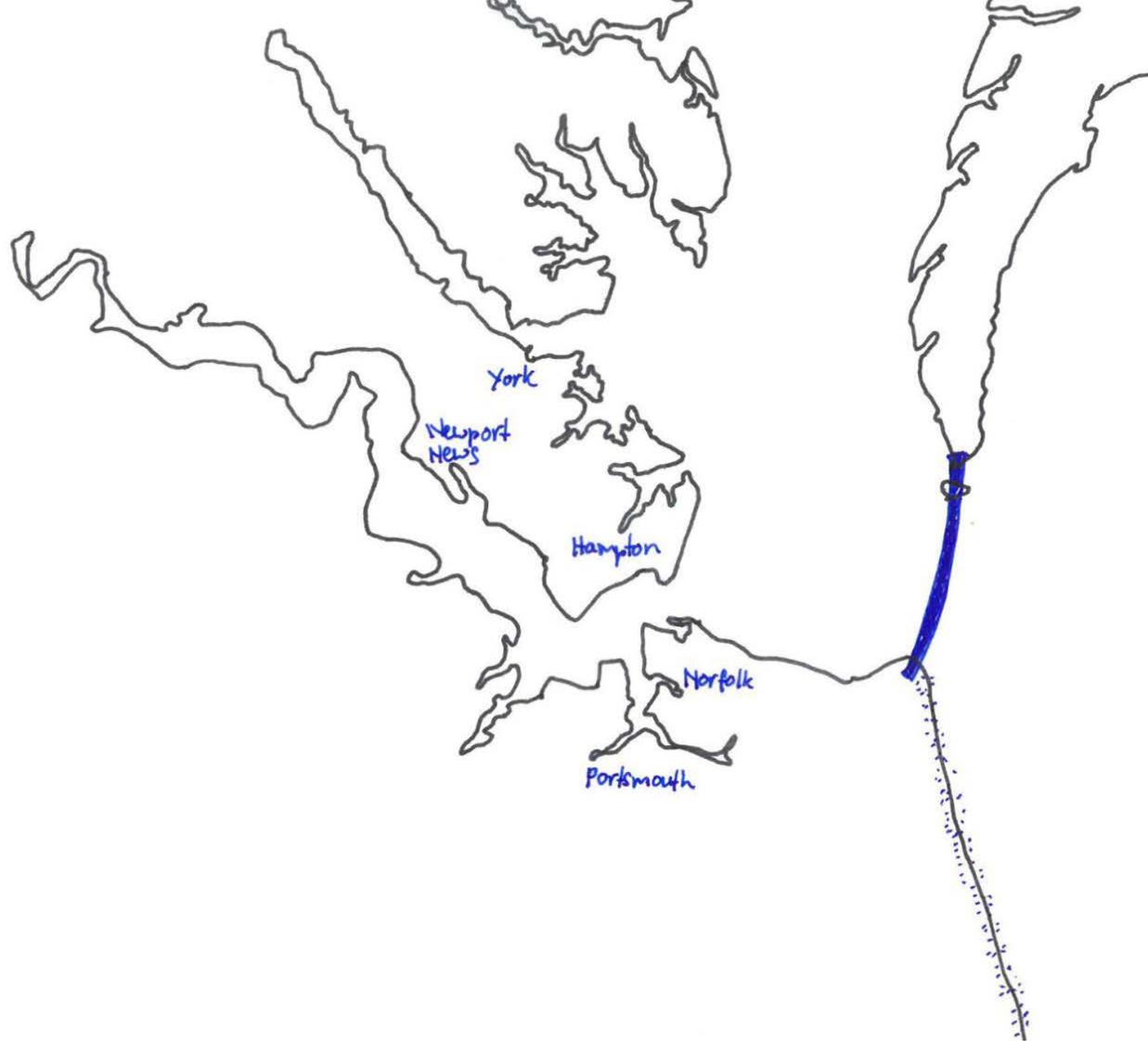
Areas
+0 - 8 Feet







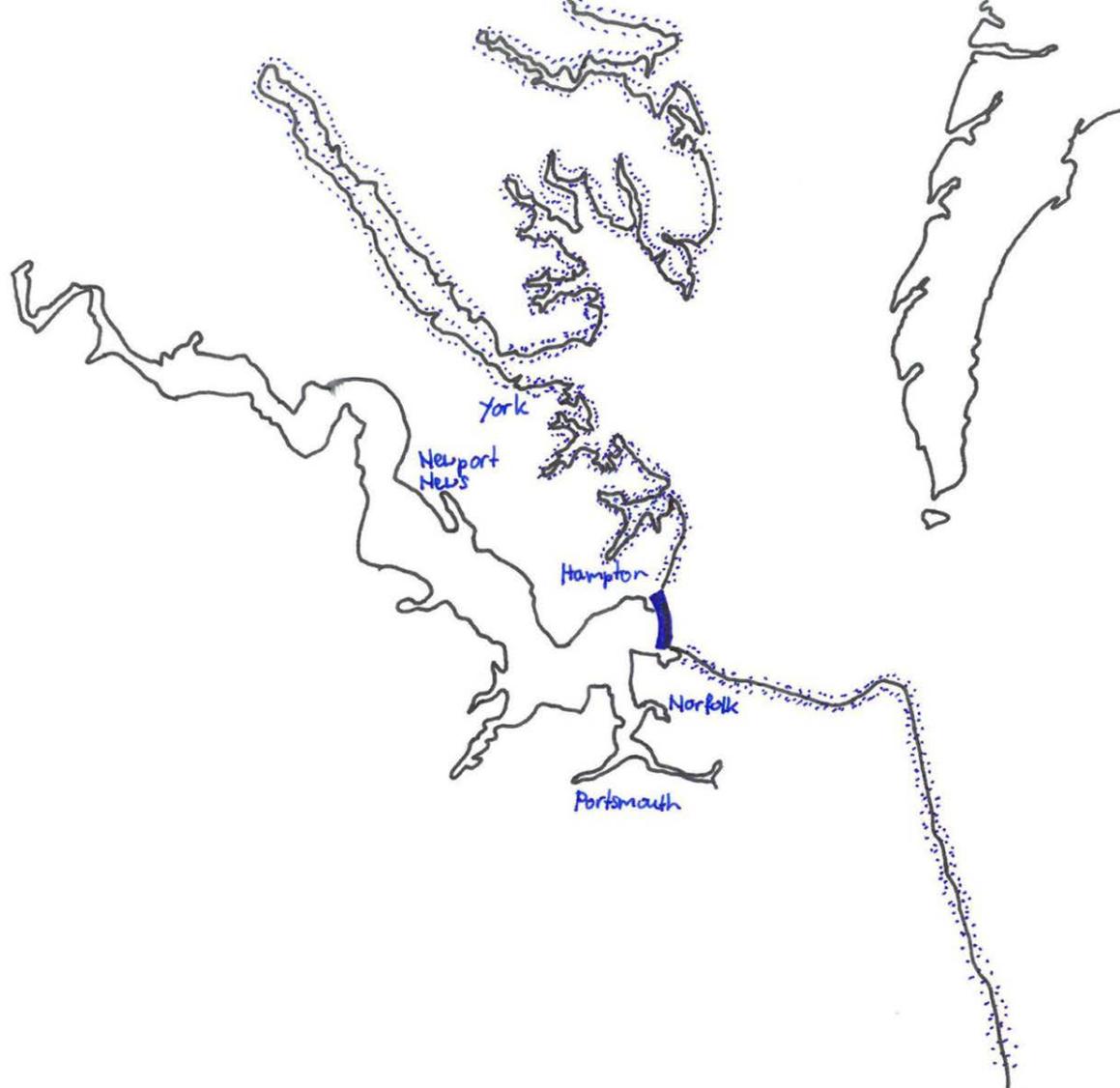




DUTCH DIALOGUES

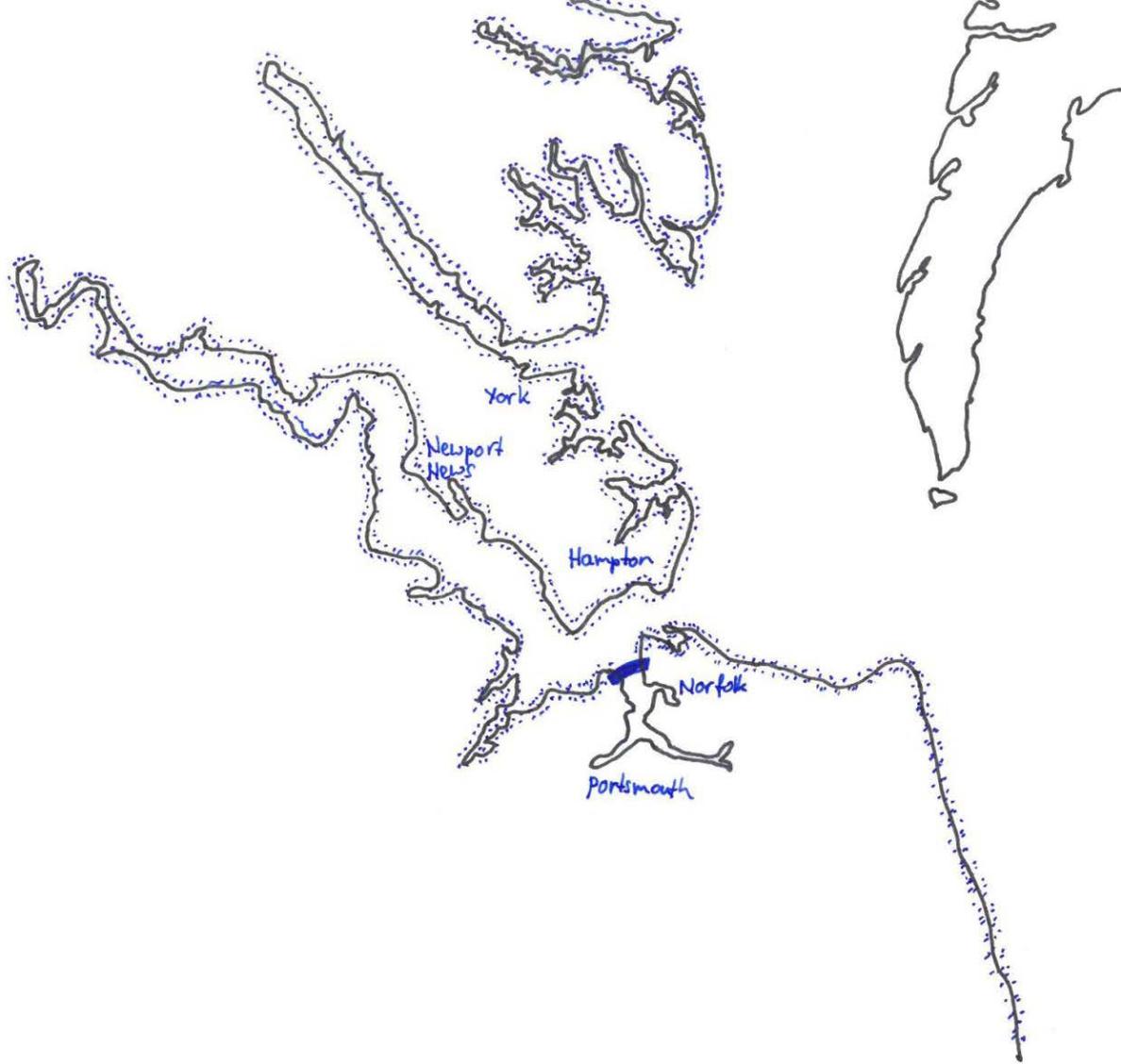
Virginia: Life at Sea Level

Will Storm Surge
Barriers Work?



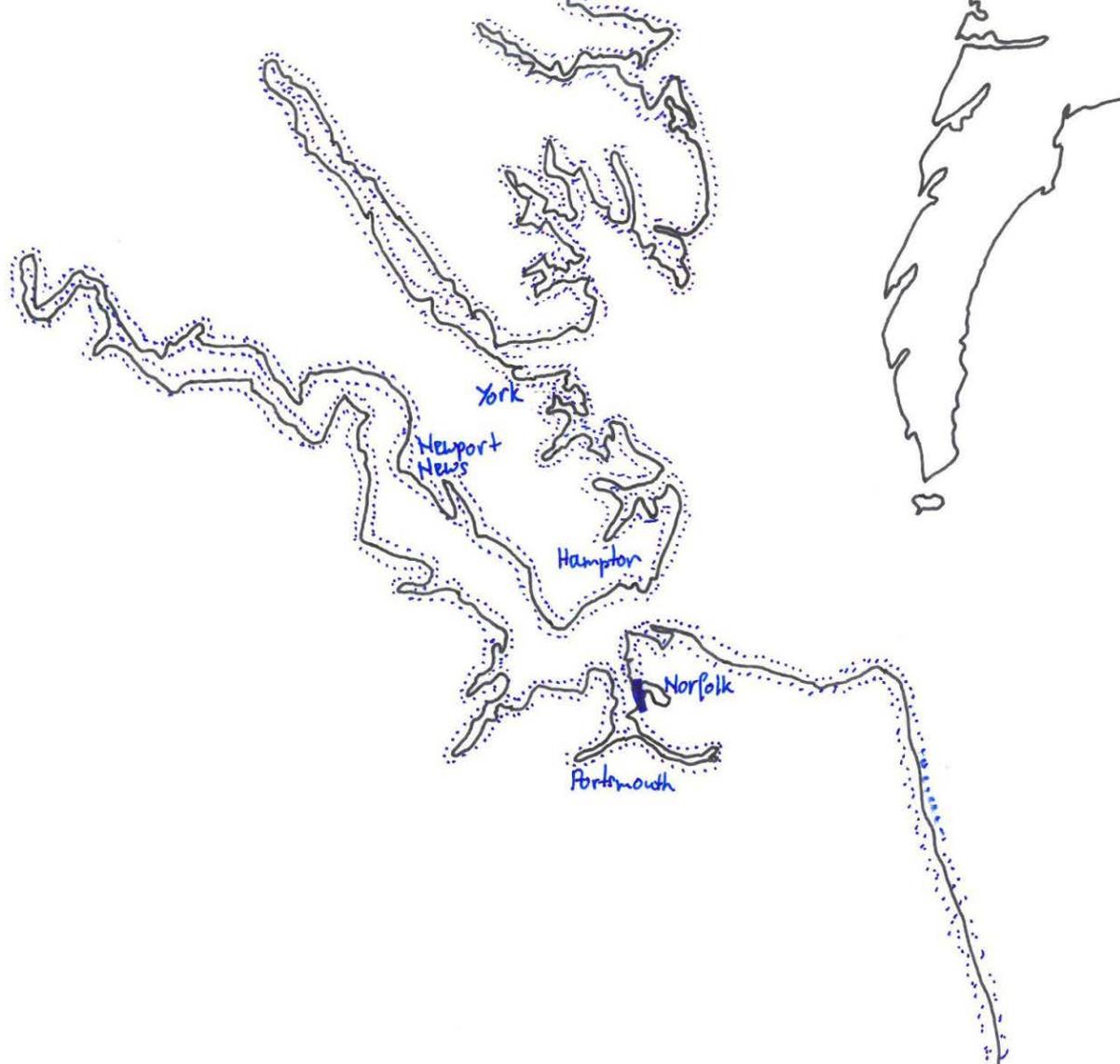
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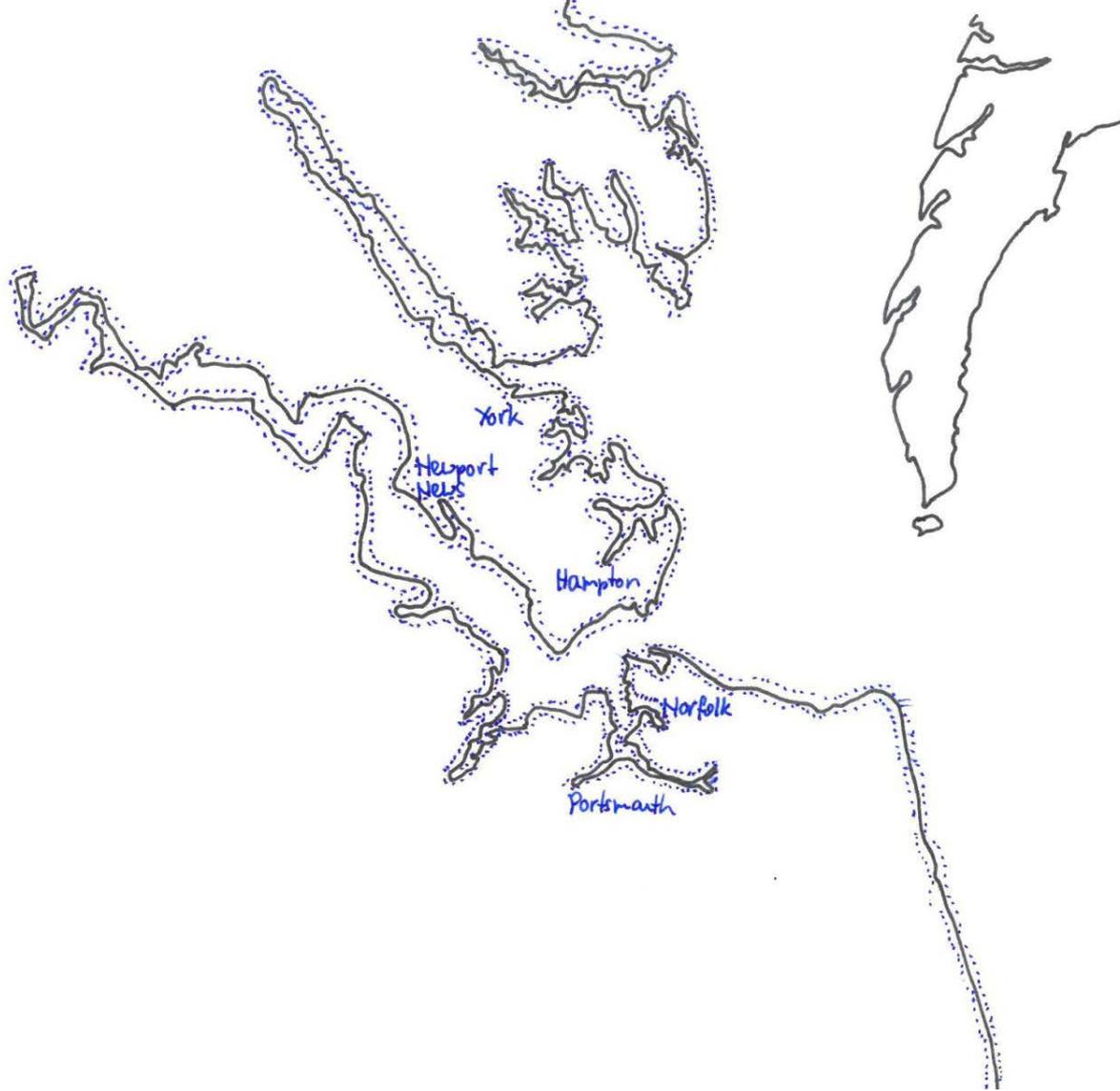
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Virginia: Life at Sea Level

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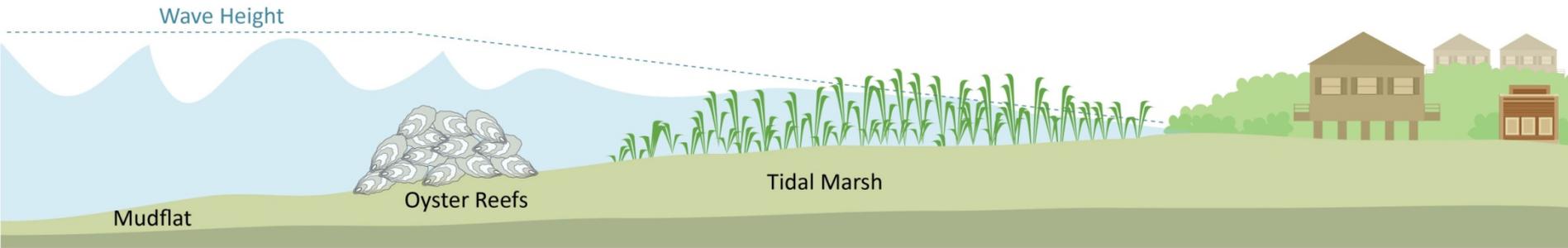
DUTCH DIALOGUES
Virginia: Life at Sea Level

Will Storm Surge
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DUTCH DIALOGUES
Virginia: Life at Sea Level

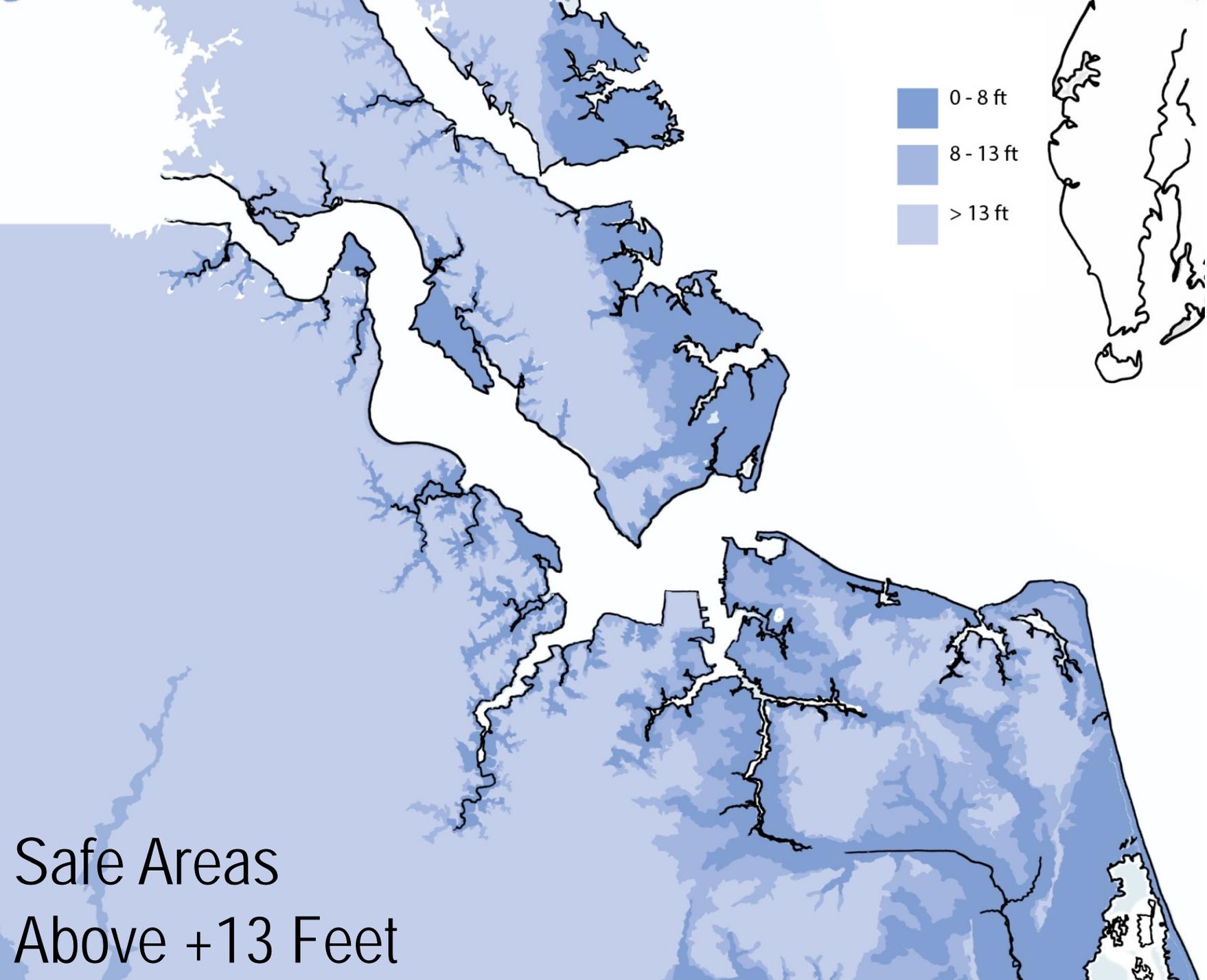
Adaptive Shorelines
Always a Good Choice

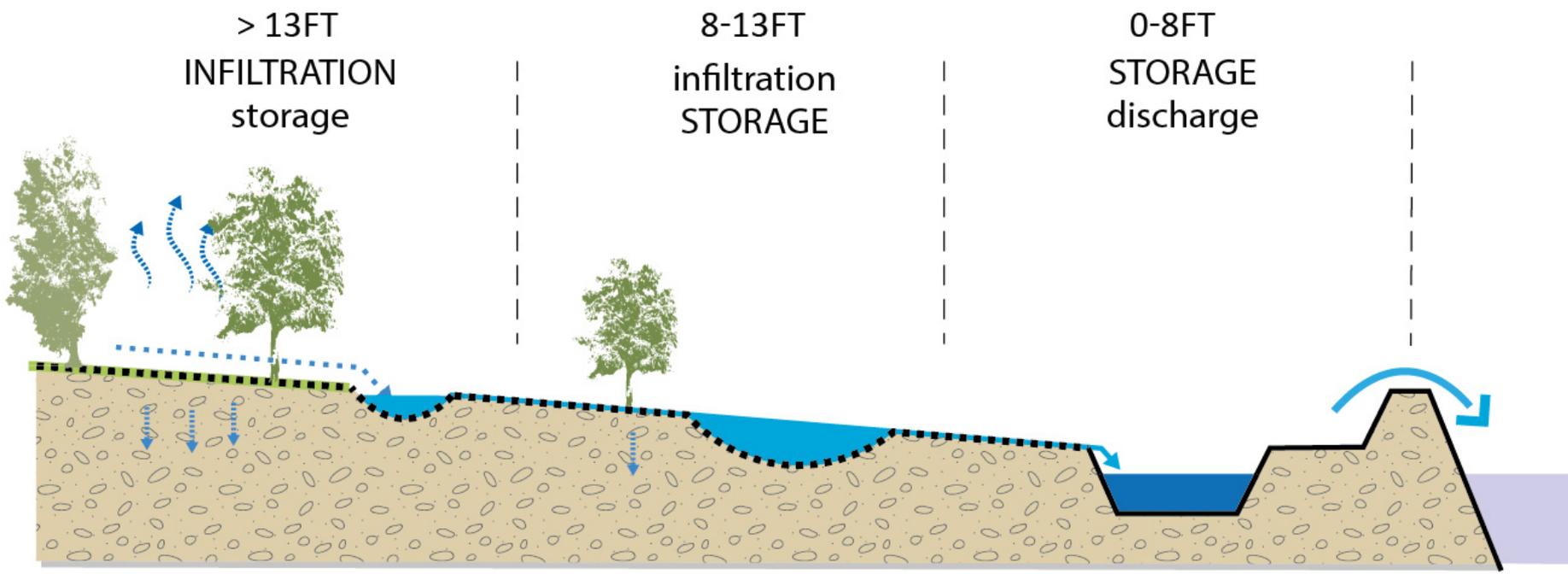




DUTCH DIALOGUES

Virginia: Life at Sea Level



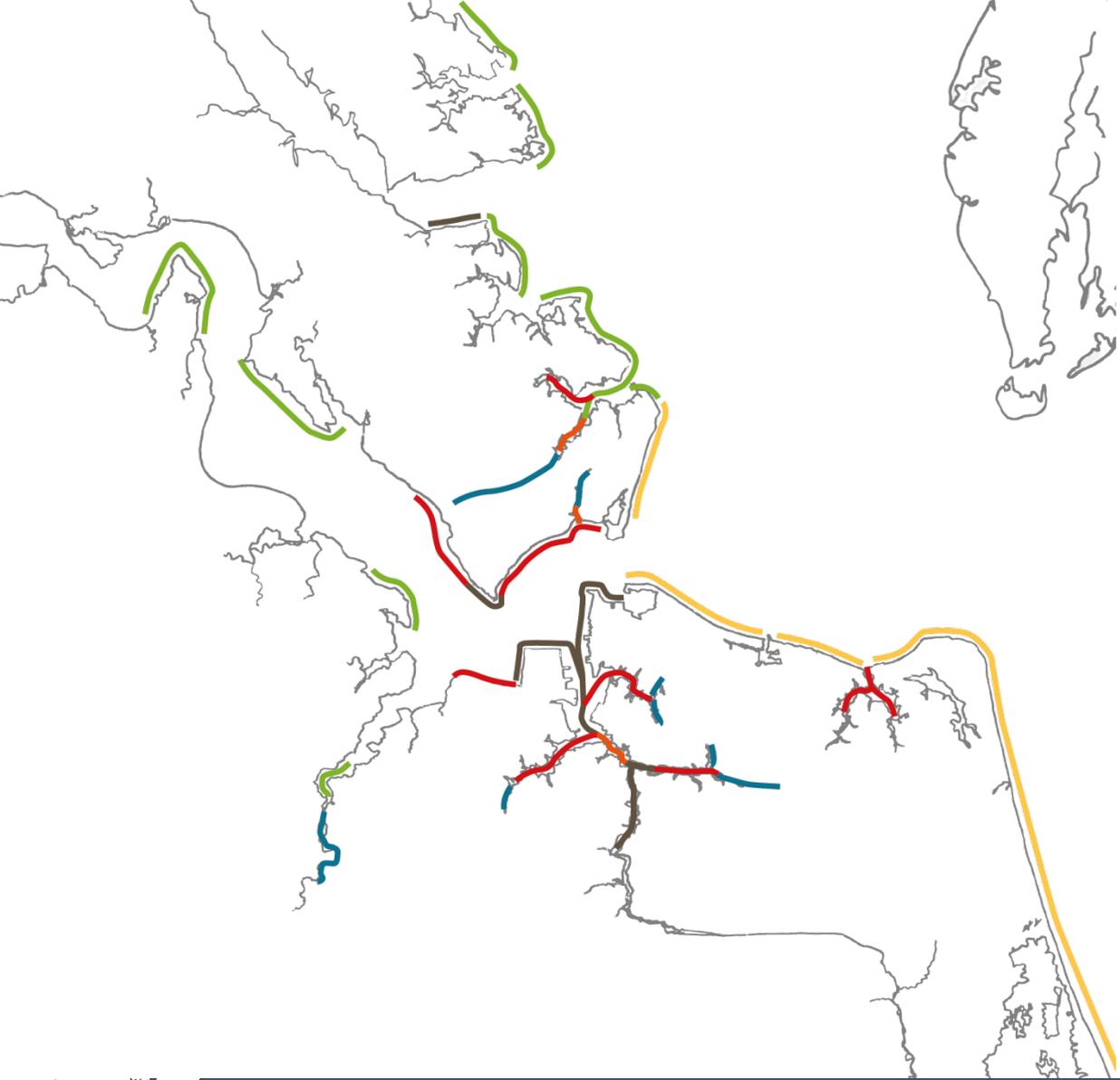


Sea Level Rise and storm water management: three zones



DUTCH DIALOGUES

Virginia: Life at Sea Level



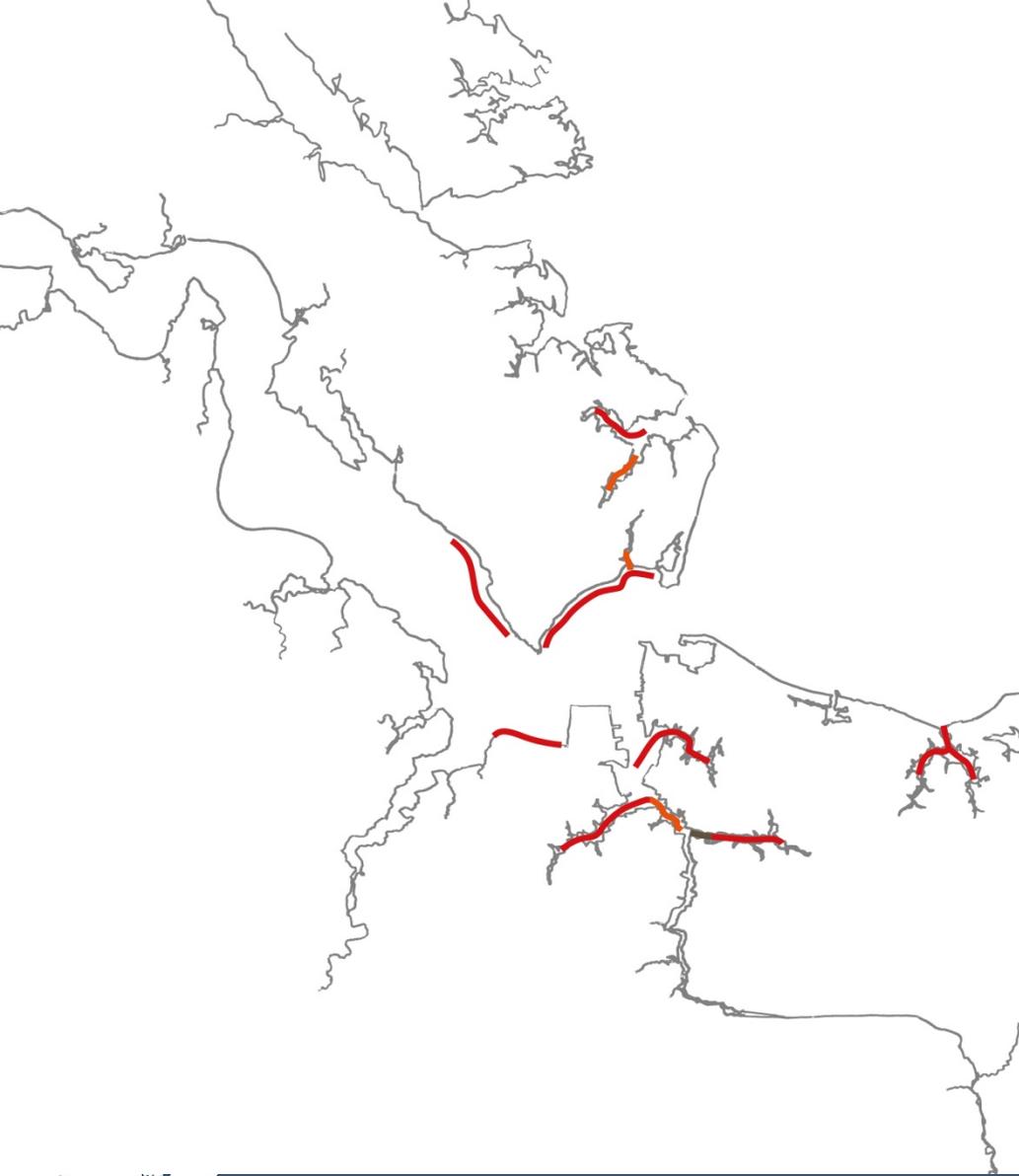
DUTCH DIALOGUES
Virginia: Life at Sea Level

Edge Conditions



DUTCH DIALOGUES
Virginia: Life at Sea Level

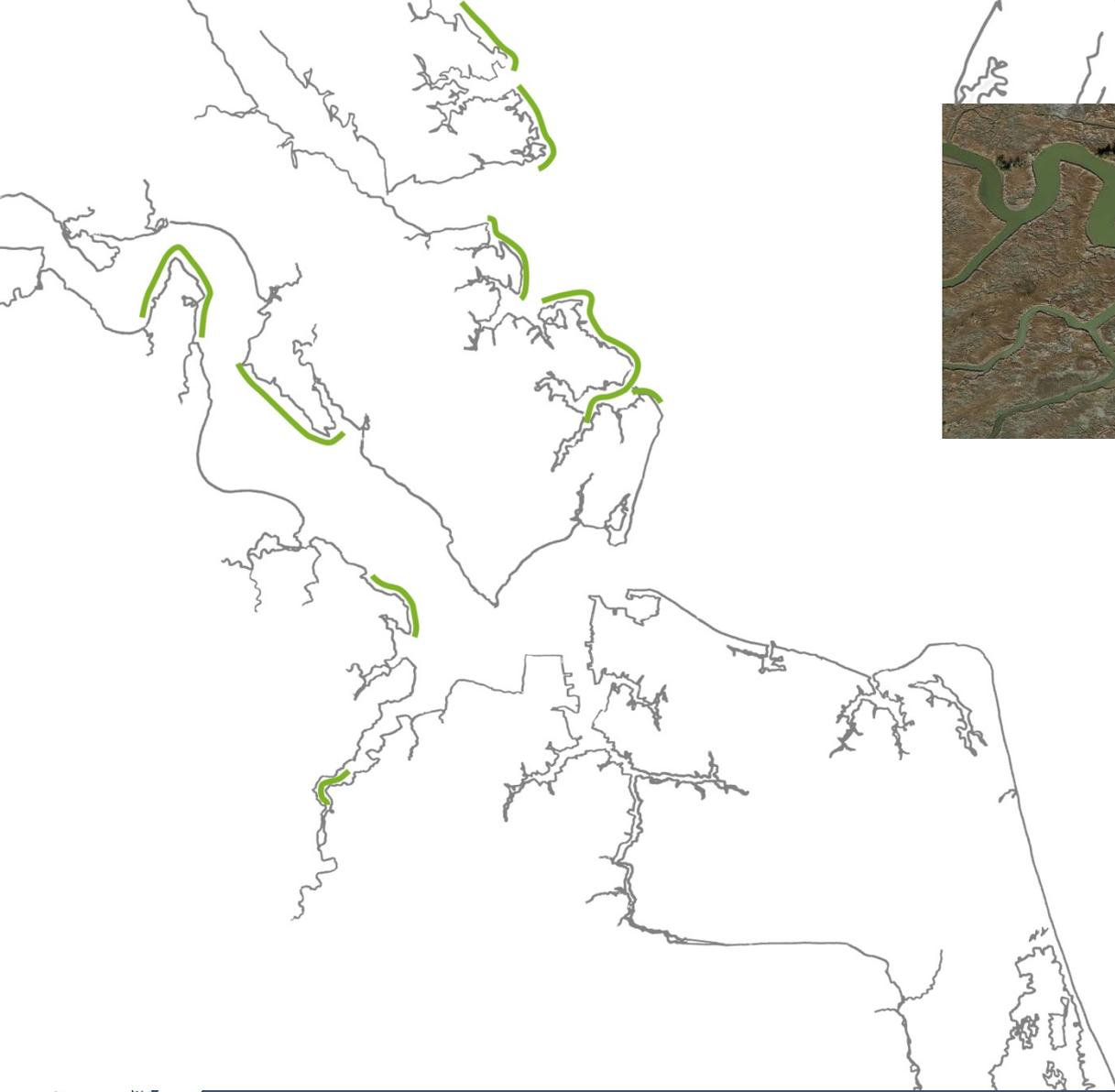
Industrial



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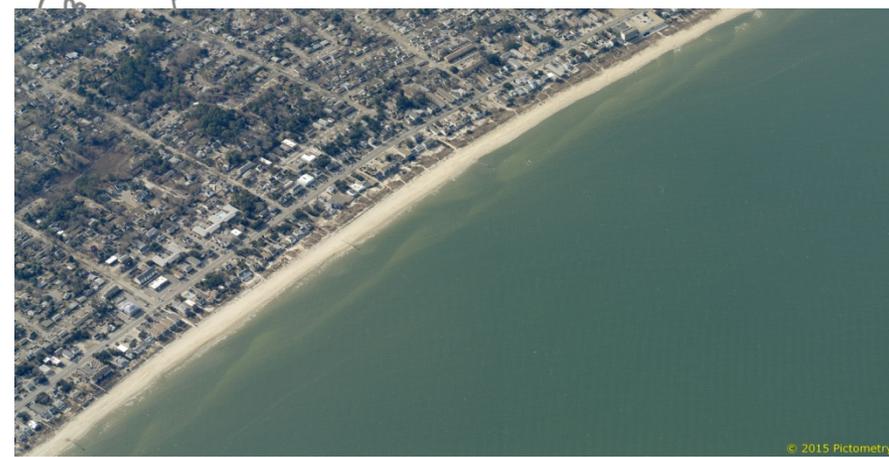
Developed





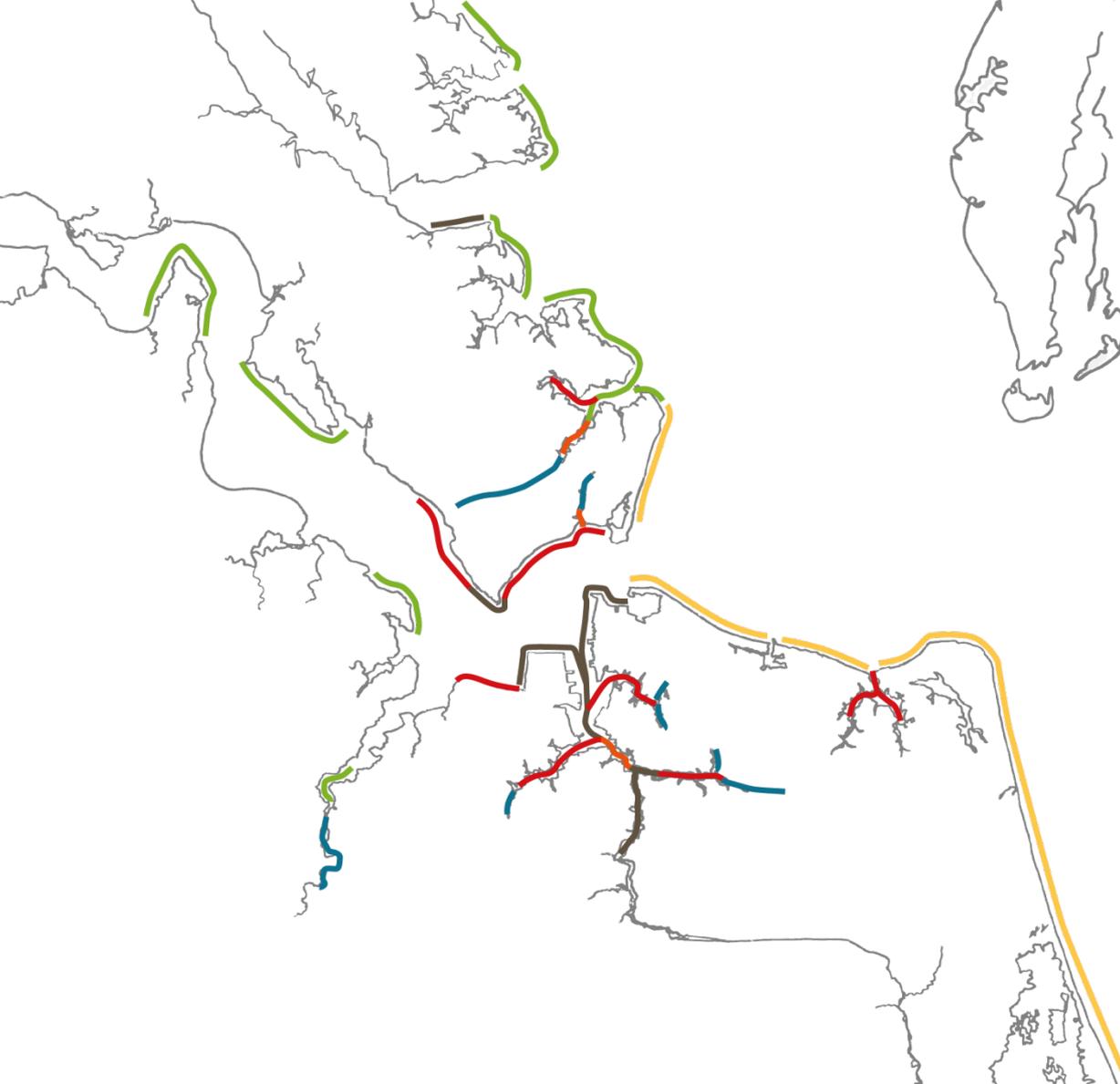
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Wetlands



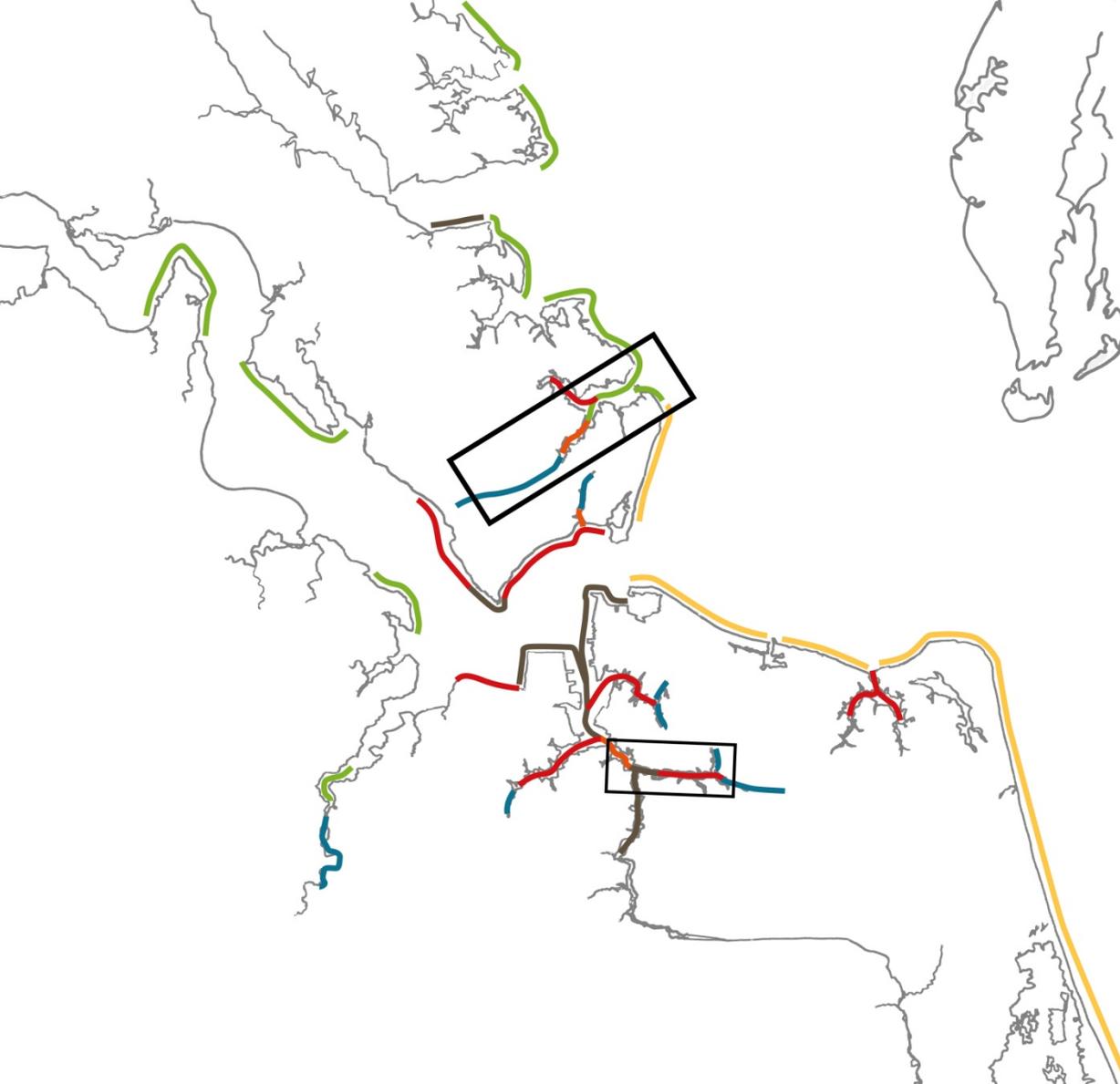
DUTCH DIALOGUES
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Beaches



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Virginia: Life at Sea Level

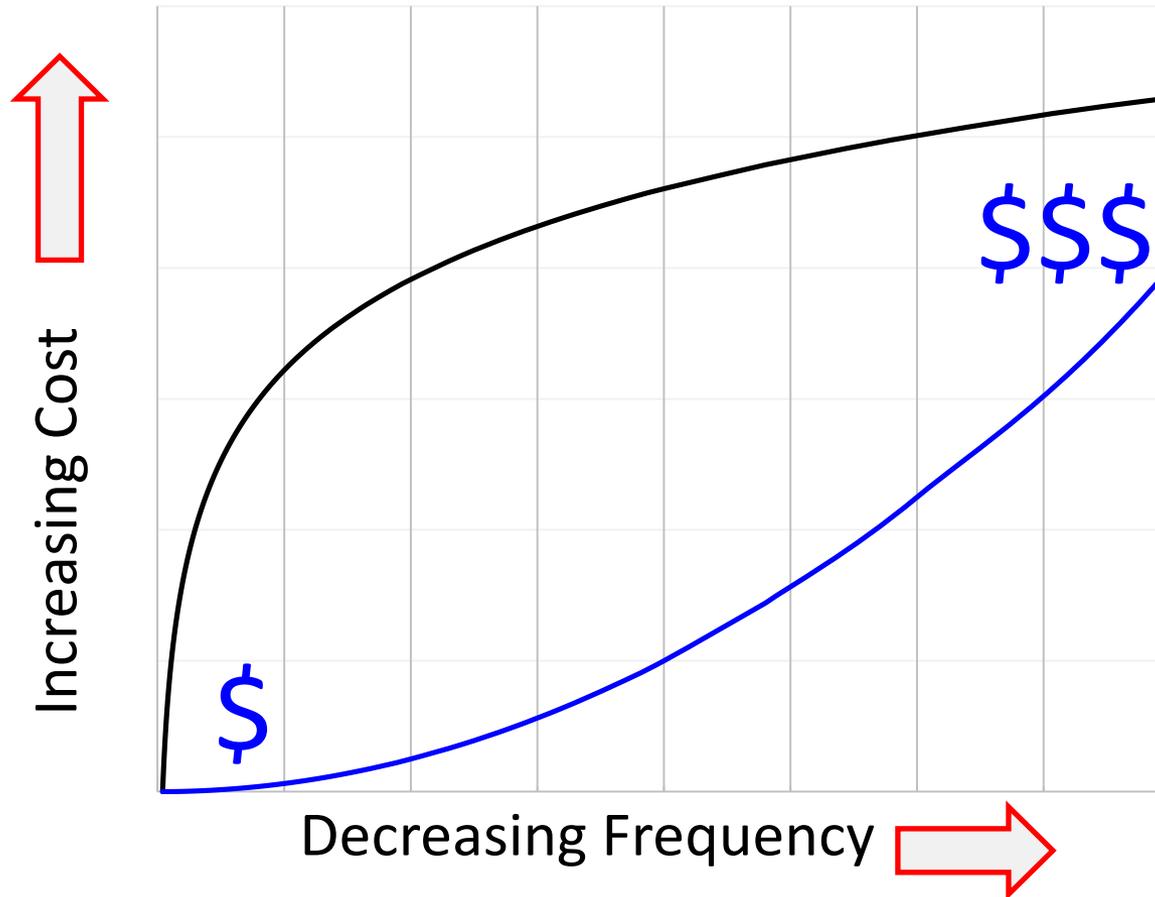
Edge Conditions



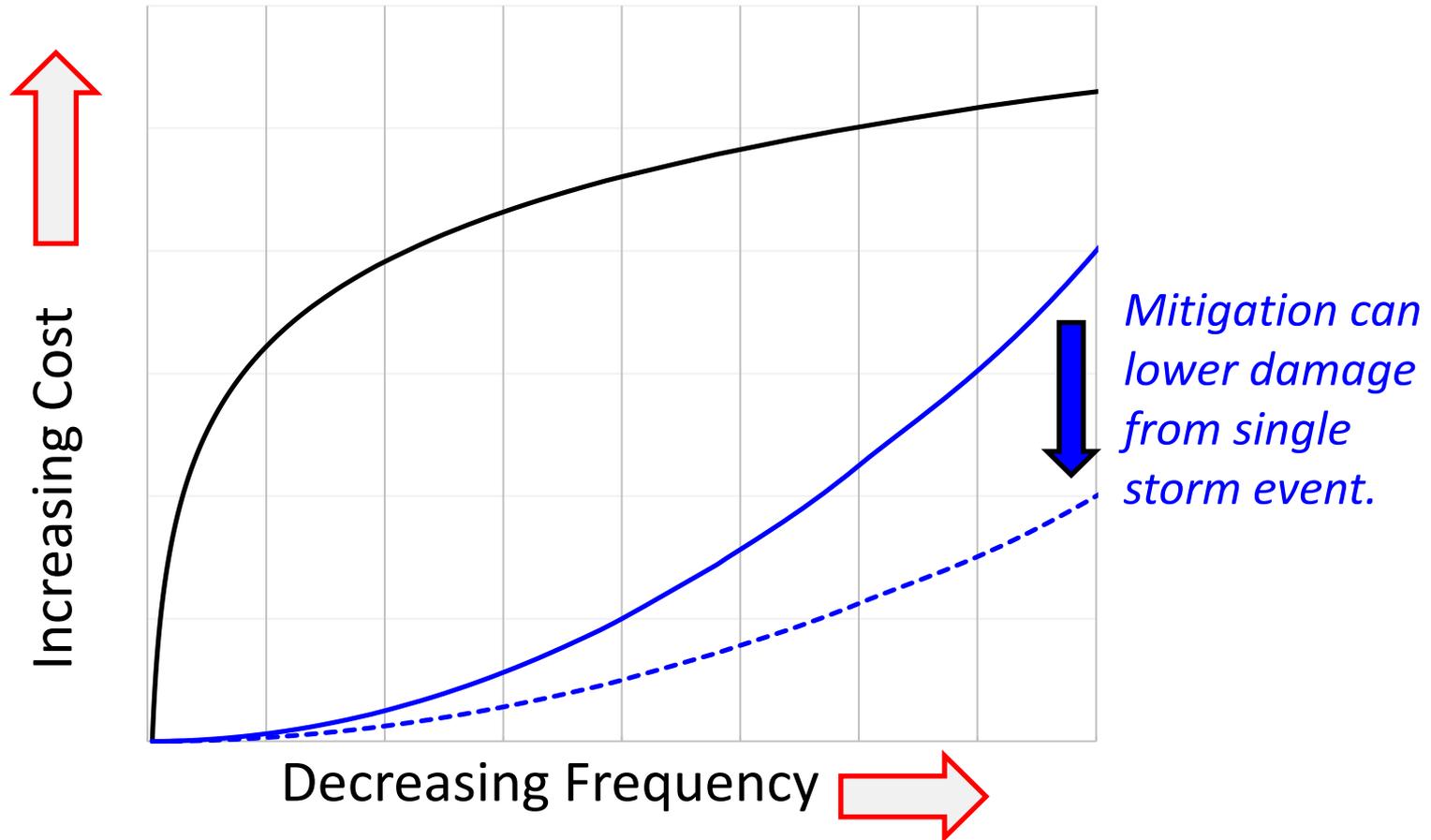
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Two Sites

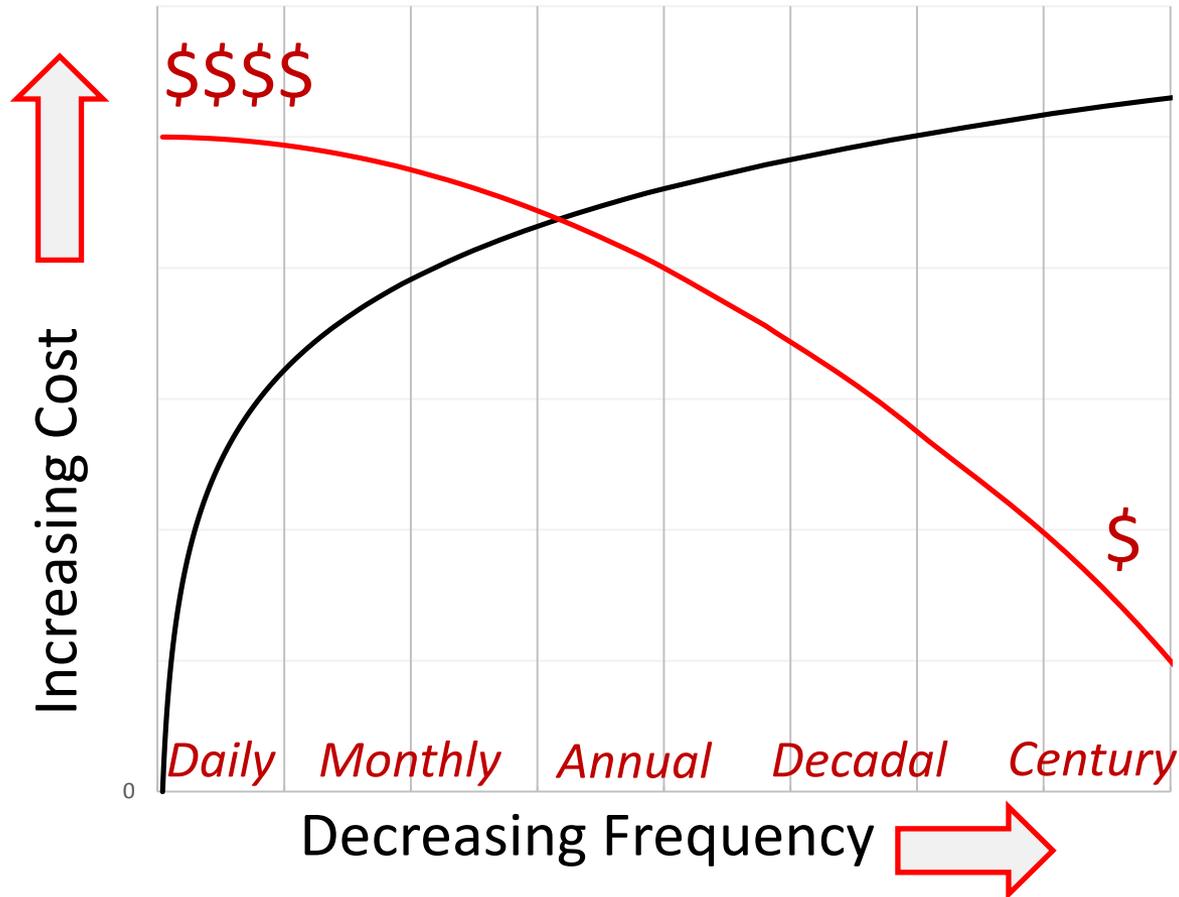
Event Specific Cost Increases with Severity



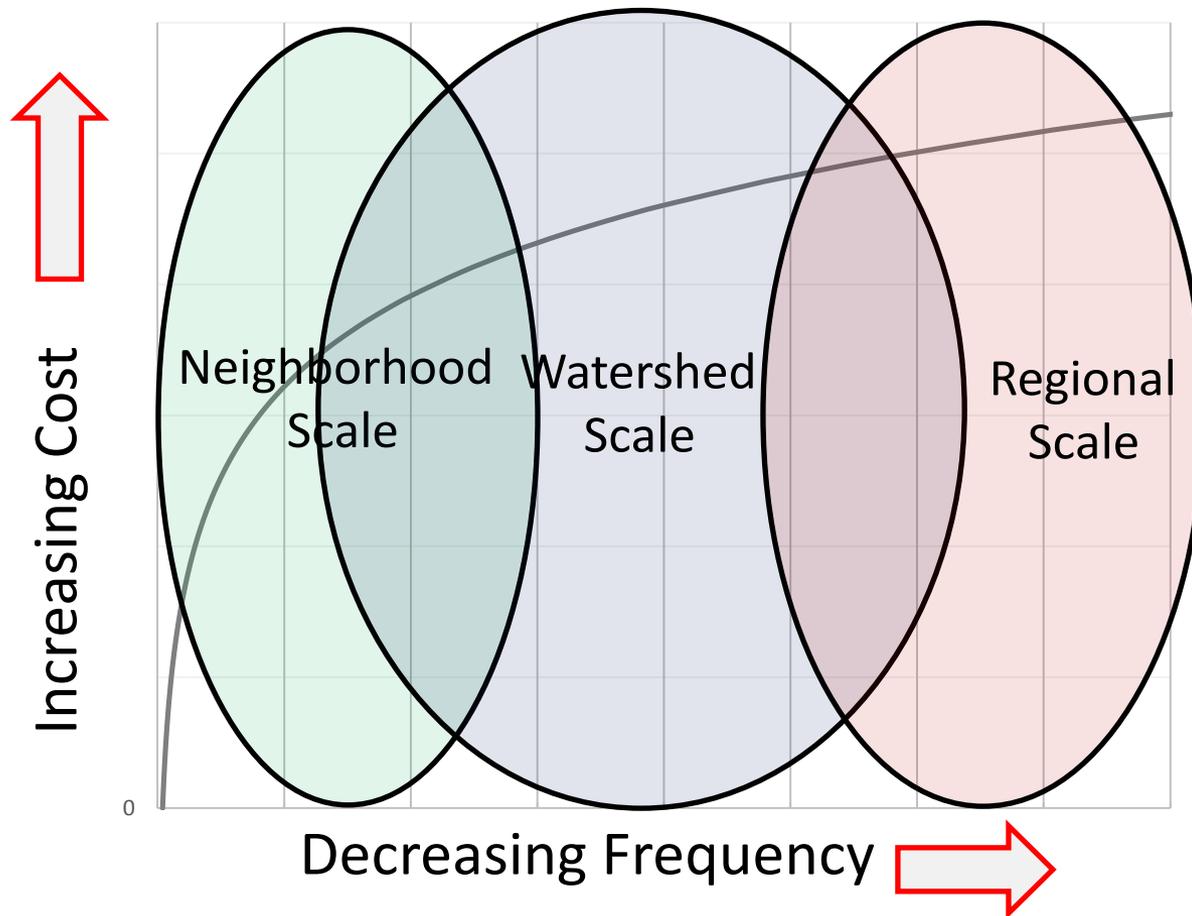
Effect of Mitigation



Cumulative Economic Impact



Size of Flood Impact



Governance – it can be done!

Conditions:

- Collaborate when it makes sense
- With respect to existing initiatives and taking advantage of new opportunities
- With the support of the business community/leaders
- With strong leadership



Preferred options

1. Start a SLR compact with frontline cities (city managers) with the support of business alliance (CEO roundtable).
2. SLR planning and implementation in HR demands regional leadership and resources. PDC leads the regional effort, using statutory authority.

