Adaptation Services or Climate Services?

Adam Parris
Deputy Director for Climate Science & Risk Communication
Mayor’s Office of Climate and Environmental Justice
Monthly Tidal Flooding (MMHW)

Potential progression of monthly tidal flooding from present through 2100 for both 90th percentile model-based and Antarctic rapid ice melt (ARIM) scenarios of sea level rise.

- Present day MMHW
- 2020s: MMHW + 10" SLR
- 2050s: MMHW + 30" SLR
- 2080s: MMHW + 58" SLR
- 2100: MMHW + 75" SLR
- 2080s ARIM: MMHW + 80" SLR
- 2100 ARIM: MMHW + 113" SLR

The New York City Panel on Climate Change (NPCC3)

Map Authors: L. Patrick and P. Orton

The information shown on this map was compiled from numerous sources and is intended solely for informational purposes. The map and data are subject to inaccuracies and should not be used to assess actual coastal hazards, insurance requirements or property values or be used in lieu of Flood Insurance Rate Maps issued by FEMA. The NPCC cannot assume liability for any damage caused by any errors or omissions in the map data and makes no warranty, expressed or implied, nor does the fact of distribution constitute such a warranty.
Thousands of Canarsie residents who never previously had to buy flood insurance face up to $15,000 in annual premiums.
Buildings inundated ~25 – 35 times/yr in the 2060s

Creating a process for Resilience

Ideas for the Bay ➤ Jamaica Bay Jeopardy!

Goals for the Bay ➤ Mapping the Bay

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Logos: Brooklyn College, Public Agenda, Hunter College, Oyster Project, Brooklyn Lifestyle Athletic Club, LA, WCS
Creating a process for Resilience

Sustaining dialogue and strengthening social ties through educational games & civic engagement

Visions and Scenarios

Hopes and concerns

Idea Fairs

Indicators (Quality of Life, Social) & Analysis of tradeoffs

PBP

Action Plans

near-term

long-term
Interactive Forum Spotlights Resiliency Plans For Canarsie

Tue, Nov 26, 2019

President of Fresh Creek Civic Association Maria Garrett presents her team’s "green" proposal to help curtail flooding issues.

By Dara Mormile

Image source: Canarsie Courier
<table>
<thead>
<tr>
<th>STANCE TOWARDS COMMUNITY</th>
<th>IGNORE</th>
<th>INFORM</th>
<th>CONSULT</th>
<th>INVOLVE</th>
<th>COLLABORATE</th>
<th>DEFER TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPACT</td>
<td>Marginalization</td>
<td>Placation</td>
<td>Tokenization</td>
<td>Voice</td>
<td>Delegated Power</td>
<td>Community Ownership</td>
</tr>
<tr>
<td>COMMUNITY ENGAGEMENT GOALS</td>
<td>Deny access to decision-making processes</td>
<td>Provide the community with relevant information</td>
<td>Gather input from the community</td>
<td>Ensure community needs and assets are integrated into process &amp; inform planning</td>
<td>Ensure community capacity to play a leadership role in implementation of decisions</td>
<td>Foster democratic participation and equity through community-driven decision-making; Bridge divide between community &amp; governance</td>
</tr>
<tr>
<td>MESSAGE TO COMMUNITY</td>
<td>Your voice, needs &amp; interests do not matter</td>
<td>We will keep you informed</td>
<td>We care what you think</td>
<td>You are making us think, (and therefore act) differently about the issue</td>
<td>Your leadership and expertise are critical to how we address the issue</td>
<td>It’s time to unlock collective power and capacity for transformative solutions</td>
</tr>
<tr>
<td>ACTIVITIES</td>
<td>Closed door meeting, Misinformation, Systematic</td>
<td>Fact sheets, Open Houses, Presentations, Billboards, Videos</td>
<td>Public Comment, Focus Groups, Community Forums, Surveys</td>
<td>Community organizing &amp; advocacy, House meetings, Interactive workshops, Polling, Community forums, MOU's with Community-based organizations, Community organizing, Citizen advisory committees, Open Planning Forums with Citizen Polling</td>
<td>Community-driven planning, Consensus building, Participatory action research, Participatory budgeting, Cooperatives</td>
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</tbody>
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Spectrum of Community Engagement
Working together to adapt

Civic organizations, leaders, and residents/communities:
- State goals
- Sustain engagement
- Strengthen participation

Rely on gov’ts to:
- Act in public interest
- Uphold laws and values
- Maintain services

Scholars, scientists and engineers:
- Characterize risks to public good
- Combat bias with data
- Clarify tradeoffs
- Explore feasibility

Adapted from Parris et al 2016.
Yes, engagement makes science more useful, but *maybe more importantly*, it can help build political will.