Rapid Climate Vulnerability Assessments for Equitable Management: Cross-sectoral Learning & Tools

2019 National Adaptation Forum
Thursday 11:00-1:30

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Today’s Workshop

Goals:
- Introduce new rapid climate change integration tools
- Learn from examples of use in human communities and natural resources management
- Practice rapid vulnerability assessment techniques

Agenda:
- Introduction
- Natural resources rapid vulnerability assessment tools and examples
- City and community tools and examples
- Quick lunch break
- Facilitated working groups
- Report back and discussion

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Assessing Vulnerability to Climate Change

Exposure → Sensitivity

Potential Impact → Adaptive Capacity

Vulnerability

Likelihood → Consequence

Risk → Adaptive Capacity

Vulnerability

Standard Vulnerability Assessment Model (IPCC)

Rapid Vulnerability Assessment (RVA) = Rapid Climate Vulnerability Assessment (RCVA)
A Rapid, Equitable Approach

A climate vulnerability assessment should...

...help leaders work with their community to consider the implications of climate change for resources, services, processes, outcomes, goals, etc..

...include the breadth of perspectives and expertise in your community.

...provide insight into which are likely to be most affected by changing climate conditions and why they are likely to be vulnerable so appropriate adaptation actions can be implemented.

...result in adaptation actions that raise everyone up.

...take about a day.
### Fisheries

<table>
<thead>
<tr>
<th>Current Goals</th>
<th>Climate Vulnerability</th>
<th>Adaptation</th>
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</thead>
<tbody>
<tr>
<td>Biodiversity</td>
<td>Range shifts</td>
<td>Maintain ecosystem function</td>
</tr>
<tr>
<td>Sustainable Fisheries</td>
<td>Extirpation/Extinction</td>
<td>Increase species persistence</td>
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<tr>
<td>Local economic stability</td>
<td>Expansion of invasive species</td>
<td>Reduce invasive species success</td>
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<tr>
<td></td>
<td>Increased stock variability</td>
<td>Improved stock assessment methodologies that account for climate change and longer-term trends</td>
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Report Back

What worked well and not so well?
Do you now feel better equipped to use and teach vulnerability assessment techniques?
Where in your work would you use these tools?
Tools Shared Today

• SPARCC Rapid Climate Vulnerability Assessment Tool*
• North American Marine Protected Area Rapid Vulnerability Assessment Tool (CAKEx.org)
• Marine and Coastal Protected Area Adaptation Toolkit**
• Climate Change Adaptation Certification Tool (CAKEx.org)

Thank you!

*Not yet available
**Available in May at CAKEx.org/MPAToolkit
Thank you!
Step 1
Define the scope of the vulnerability assessment

Step 2
Construct the assessment matrices

Step 3
Undertake the assessment

Step 4
Adaptation strategy development

Step 5
Create your own narrative vulnerability assessment report
Step 1
Define the scope of the vulnerability assessment

Goal of this step: Define the scope and initial parameters of the rapid vulnerability assessment you aim to undertake.

Activity: Identify habitats to consider, significant climate change related variables, relevant non-climate stressors, and the timescale in which you are interested.
Step 2
Construct the assessment matrices

Goal of this step: Set priorities for your vulnerability assessment and explore the vulnerability assessment components.

Activity: Transfer the information from Step 1 onto the worksheets you will employ to complete the vulnerability assessment.
Step 3
Undertake the assessment

Goal of this step: Apply your local knowledge to consider the implications of climate change for your site by habitat.

Activity: Describe and evaluate how climate and non-climate stressors will affect your site’s vulnerability.
Step 4
Adaptation strategy development

Goal of this step: Generate and evaluate adaptation strategies and implementation

Activity: Based on the vulnerabilities identified, develop management responses to reduce those vulnerabilities, and explore implementation considerations.
Step 5
Create your own narrative vulnerability assessment report

Goal of this step: Help internalize and communicate your plan.

Activity: Transfer the results of the table to a narrative format to more easily share your plan.