Policy and Technical Advisory Committee (PTAC)

December 19, 2019
Noon to 4pm

UVM Alumni House
Purpose of the PTAC

• To provide **technical advice** regarding model development, calibration and validation, including possible access to datasets that may be used in the process.

• To provide input regarding the **communication of research findings** and uncertainty associated with them.

• To provide **advice about possible scenarios** to be generated and tested from the BREE Integrated Assessment Model (IAM), as well as the land use, hydrology, climate, governance and economic models that are to be wrapped into it.

• To provide advice about the **development of actionable, decision-support tools to inform water quality** in the face of changing frequencies and intensities of extreme events in the study areas.
Looking to the future

• Sustaining the work/products of RACC and BREE

• The theme of the next R1 EPSCoR Grant Proposal
INSTITUTIONAL NETWORK SURVEY -- UPDATE

Thank you for your help and participation!

Special thanks to Tactical Basin Planners for helping us validate our lists

• 99 responses
• Survey is structured by agency → sub-agency (division)
  • Responses from 88 unique sub-agencies
  • Responses from 71 agencies

• There’s still time to get your responses in!!!!
  (CLOSES MONDAY, December 23rd)
Management functions of participating actors

- Stormwater runoff
- River corridors
- Ag. land management
- Forestry
- Flood hazard mitigation
- Development
- Wastewater
Actors have differential reach by interaction mode

**ANR**
- Financial exchange
- Information sharing
- Project coordination
- Reporting
- Technical assistance

**LCBP**
- Financial exchange
- Information sharing
- Project coordination
- Reporting
- Technical assistance
Much more work to be done

- **Statistical modeling**: can we predict the structure of the project coordination network using other dimensions and nodal characteristics?
- **Network evolution**: how does the 2019 network compare to the 2014 and 2015 networks? Pre/post Act 64?
- **What communities of actors exist?**
- **Does participation in policy venues predict actor <-> actor interactions?** How are policy venues connected and by whom?
- **How does the social network align with ecological network?** (i.e., does the water governance network align with the hydrological network?)
• Survey will go out in early 2020 and cover much of the LCB.
• Focus will include BMP adoption and likelihood of BMP adoption.
MUNICIPAL STORMWATER SURVEY POLICY BRIEF - UPDATE

• Due out in early 2020
**The rest of today’s agenda**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:40 pm</td>
<td>Update on the monitoring data from the summer bloom season and using sensors to understand nutrient loading during storms across different land uses of the Lake Champlain Basin including Q&amp;A</td>
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<tr>
<td>1:15 pm</td>
<td>An overview of the <strong>new 3-dimensional lake model</strong> and its capacity to simulate lake and bloom dynamics including Q&amp;A</td>
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<tr>
<td>1:45 pm</td>
<td>Report on the development of a <strong>new flood inundation model</strong> for all of the Vermont watersheds in the LCB including Q&amp;A</td>
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<td>2:45 pm</td>
<td>Break</td>
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<tr>
<td>2:55 pm</td>
<td>Highlights from the <strong>latest integrated assessment model</strong> results including Q&amp;A</td>
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<tr>
<td>3:20 pm</td>
<td><strong>Quantification and simulation of extreme events</strong> in BREE IAM including Q&amp;A</td>
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<tr>
<td>3:45 pm</td>
<td>Update on upcoming <strong>Legislative Session and Acts 64 and 76. Implementation</strong></td>
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<tr>
<td>4:00 pm</td>
<td>Adjourn</td>
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