Welcome!
The program will begin at 9AM.
Welcoming Remarks

Hannah Pingree
Director, Governor’s Office of Policy Innovation and the Future

Catherine Conlow
Executive Director, Maine Municipal Association

Ivan Fernandez
Professor of Soil Science, University of Maine Climate Change Institute

Susie Arnold
Senior Ocean Scientist, Island Institute
SCIENCE-INFORMING CLIMATE RESPONSES IN MAINE COMMUNITIES

Susie Arnold, PhD

Maine Climate Council
Scientific and Technical Subcommittee

May 11, 2023

Ivan Fernandez, PhD

Maine Climate Council
Scientific and Technical Subcommittee

May 11, 2023
The State of Knowledge about Climate Change

AR6 Synthesis Report
Climate Change 2023

AR6 Climate Change 2021: The Physical Science Basis

WGI
WGI
WGII
WGIII
Climate Change and Land
Climate Change and the Ocean and Cryosphere in a Changing Climate
Impacts, Adaptation and Vulnerability
Mitigation of Climate Change
Global Warming of 1.5 ºC
Maine Climate Science Assessment

Scientific Assessment of Climate Change and Its Effects in Maine

Maine Statewide Annual Temperature

- Maximum: +2.4°F
- Mean: +3.2°F
- Minimum: +4°F

Temperature (°F)

Year:
- 1900
- 1920
- 1940
- 1960
- 1980
- 2000
- 2020
“Driven by clear goals and metrics combined with scientific analysis, the plan coordinates statewide action that is already seeing results. Maine Won't Wait demonstrates the importance of planning in ensuring programming and policy decisions move the needle toward a more resilient future.”
The intermediate scenario is the “commit to manage” level in Maine Won’t Wait.
<table>
<thead>
<tr>
<th>Islesboro</th>
<th>$50,000</th>
<th>The Narrows and Beyond: Resilience Planner Pilot</th>
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Core samples of marsh

Tide tracker installation with UMaine

SLR art installation
Changes in Ocean Circulation = warmer water entering the Gulf of Maine

(modified from Meyer-Gutbrod et al. 2021)
Sublegal Lobster Survey Results Over Time - Downward Trends

Trawl Survey Catch Per Tow (71-80 mm CL)

Ventless Trap: Catch Per Trap by Area (71-80 mm CL)

(data from Maine DMR)
30 Towns with the Highest Percentage of Lobster Licenses per capita
Impacts of Changing Ocean Conditions on the North Atlantic Right Whale

(Meyer-Gutbrod et al. 2021)
WE ALL HAVE A ROLE TO PLAY!

Thank you