

Getting Onboard

Facing Climate Change in Lincoln County

Saturday, February 4 | 4PM

Waldo Theatre | Waldoboro

A multimedia performance combining live music, imagery, science, and spoken word to explore the impacts of climate change in Lincoln County. Presented in collaboration with **Midcoast Conservancy**, **Halcyon String Quartet**, ecologist **Janet McMahon**, and actor **David Troup**.

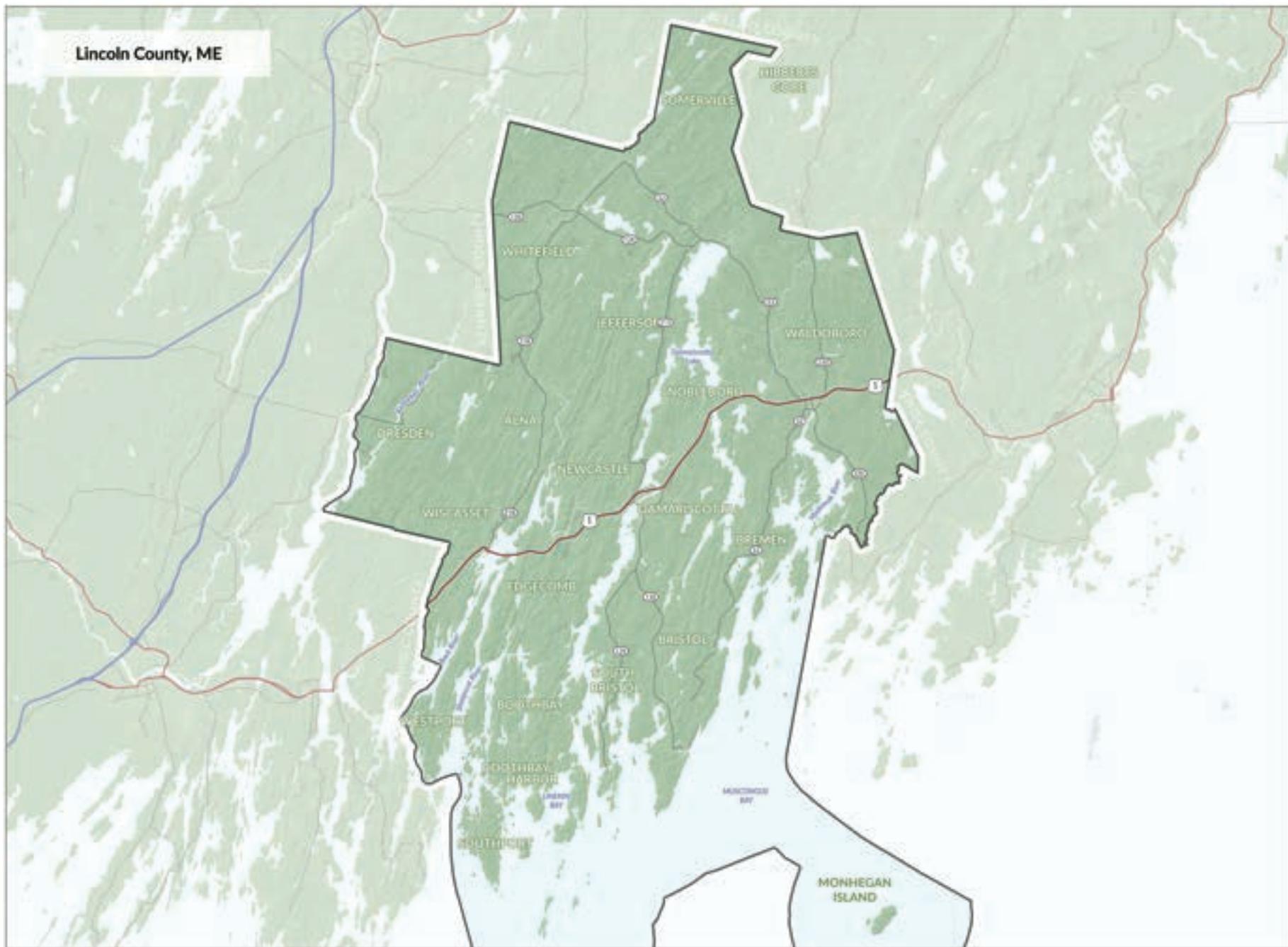
Photo Credit: Luke Young



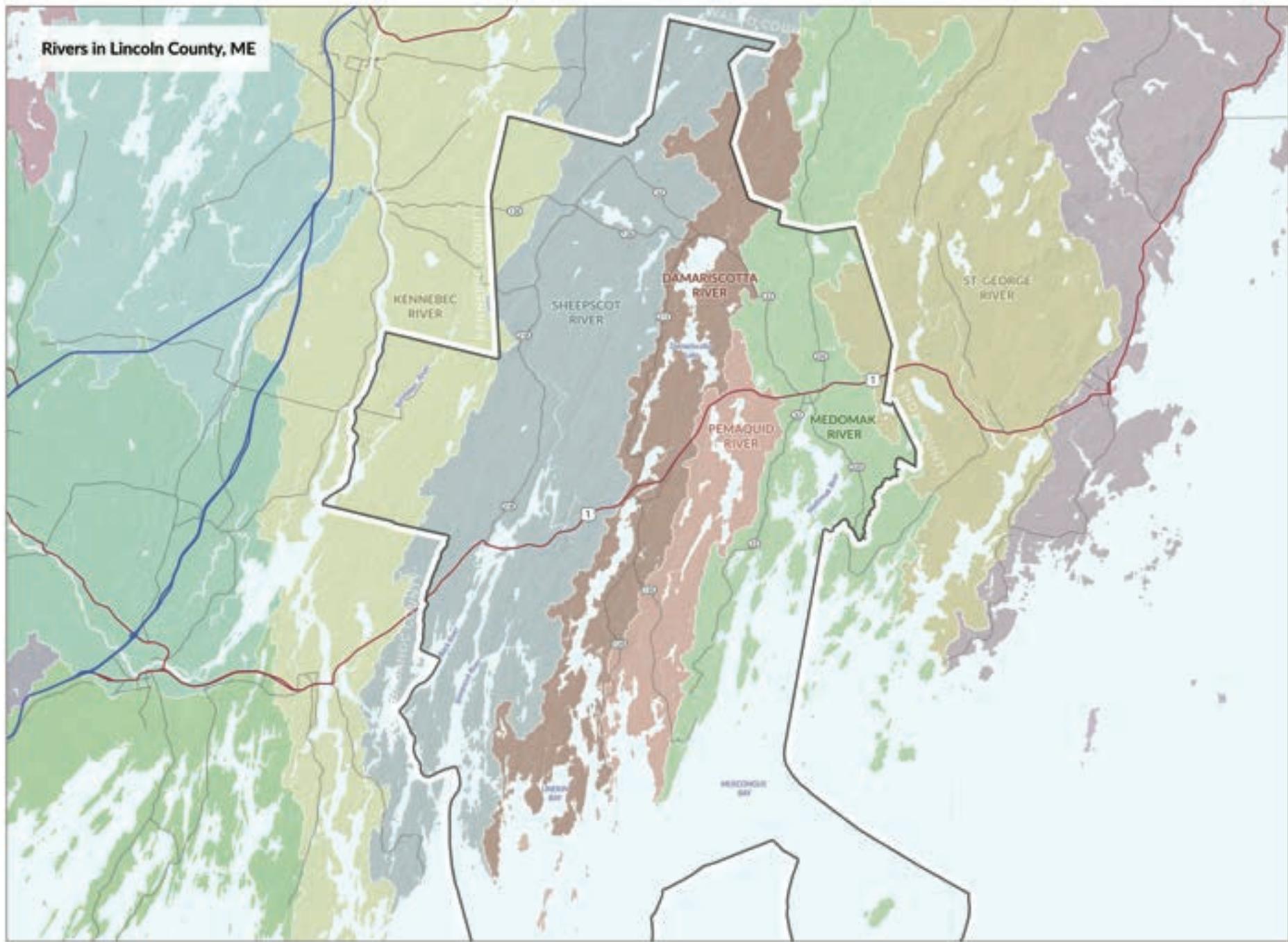
halcyon
music | environment | action

For information and
to purchase tickets, visit
midcoastconservancy.org

Lincoln County, ME



Rivers in Lincoln County, ME





Waldoboro Village



La Verna Preserve
Bristol





Monhegan Island



Broad Cove, Western Branch



Hockomock Bay



Wreck Island

Damariscove





Louds Island

Kennebec River
Dresden





Clarry Hill



West Branch Falls,
Davis Stream



Jones Brook
Somerville



Gross Neck
Waldoboro

Sheepscot Bog
Hibbert's Gore





Damariscotta Lake



Musquash Pond
Jefferson

Little Dyer Pond
Jefferson & Whitefield





Boothbay



Dyer River
Newcastle



Three Brooks Forest
Waldoboro



Whitefield



Eastern River
Dresden

Pemaquid peninsula



shore – fredrik sjölin

CO₂ concentrations today are at
418 parts per million.

This concentration is the highest
the earth has seen in more than 3
million years.

One out of every **three** CO₂
molecules in the atmosphere
was put there by us.

We are heading for a planetary condition
that no humans have ever experienced.

Greenhouse gases are affecting the climate
in unpredictable ways.

We are creating a whole new vocabulary...

...bomb cyclone

flash drought

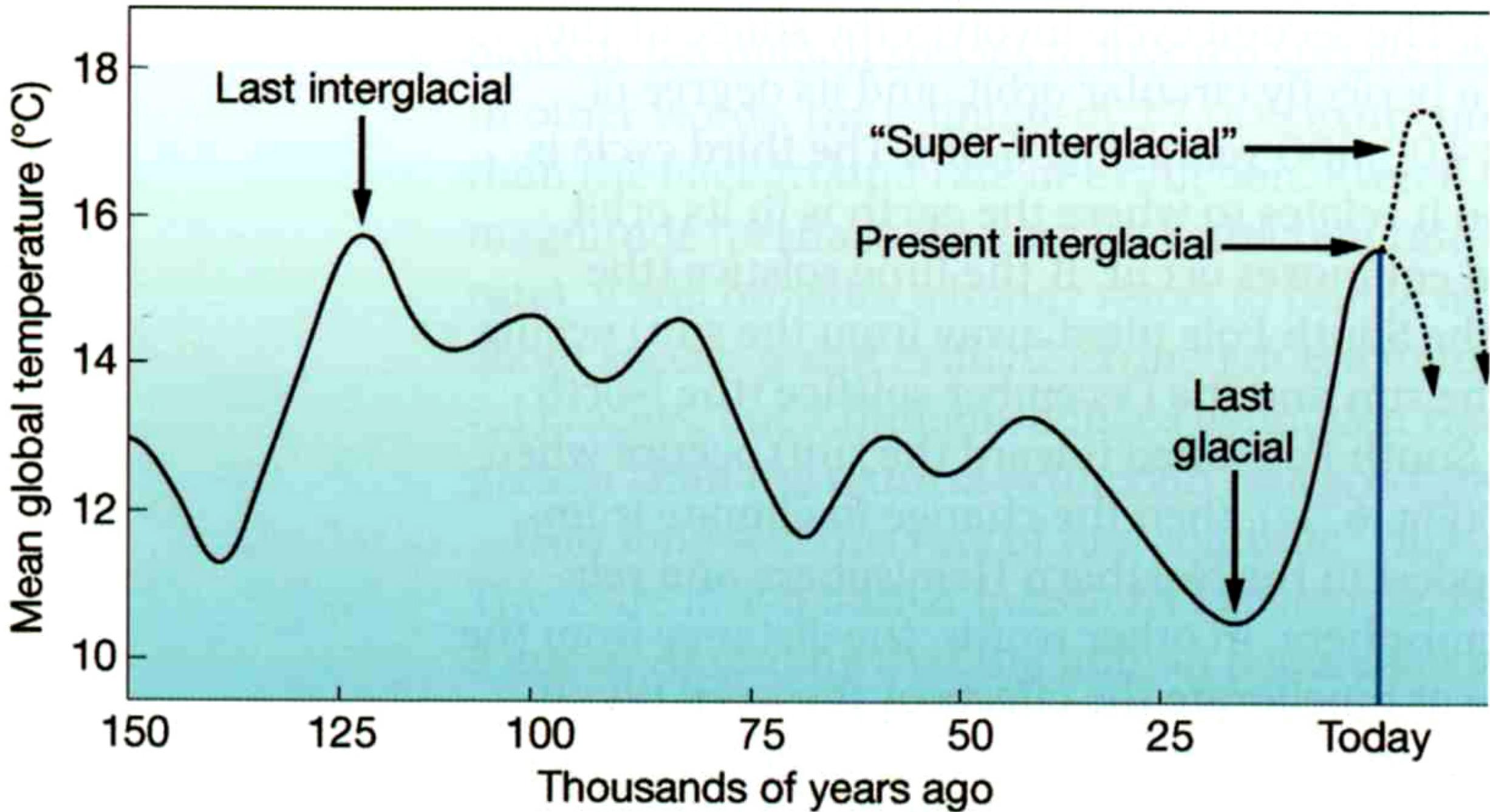
atmospheric river

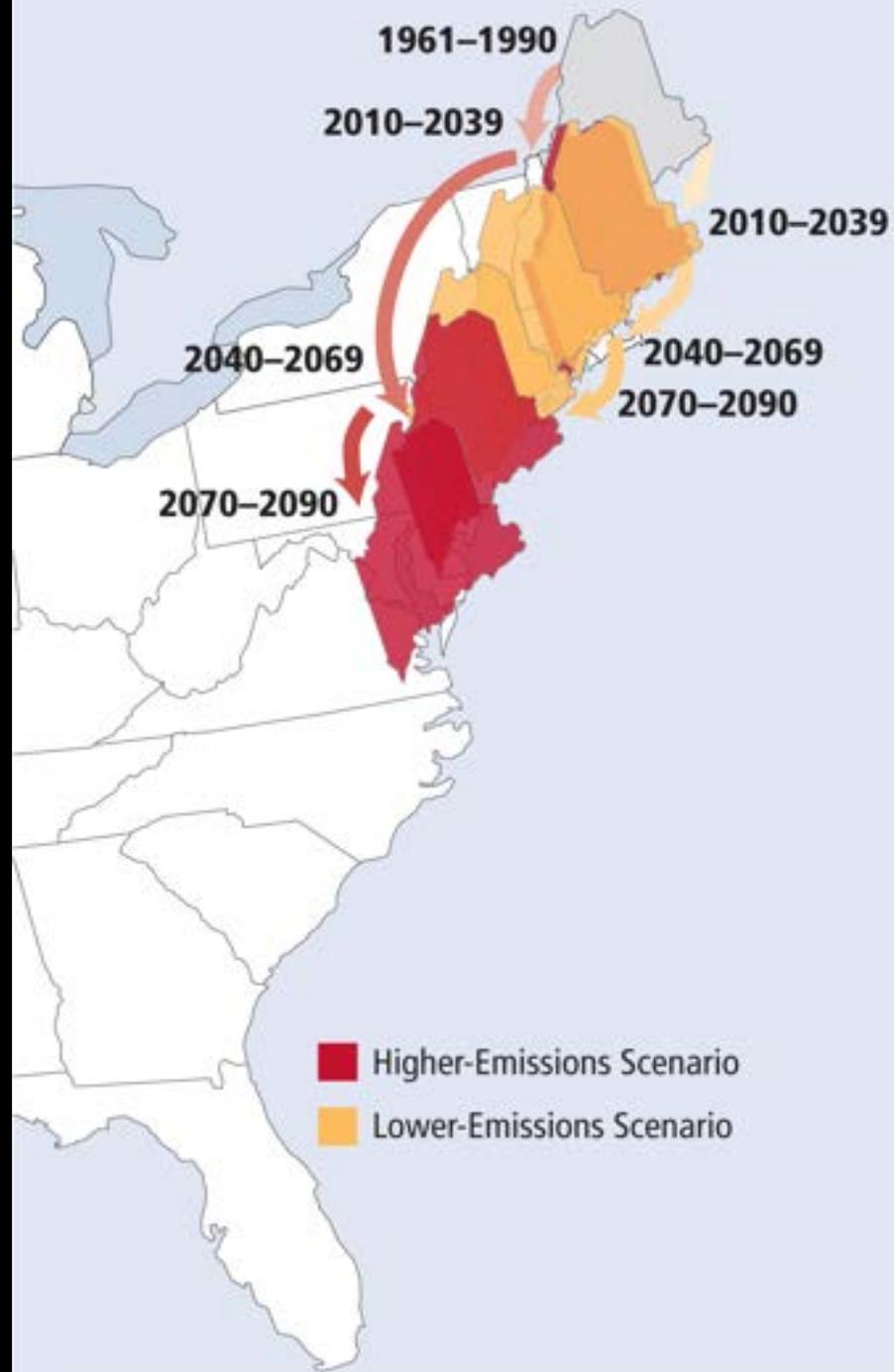
marine heat wave

polar vortex...

1 in 3 Americans live in a county that experienced a federally declared disaster due to extreme weather in 2021.











South Bristol, July 14 2020

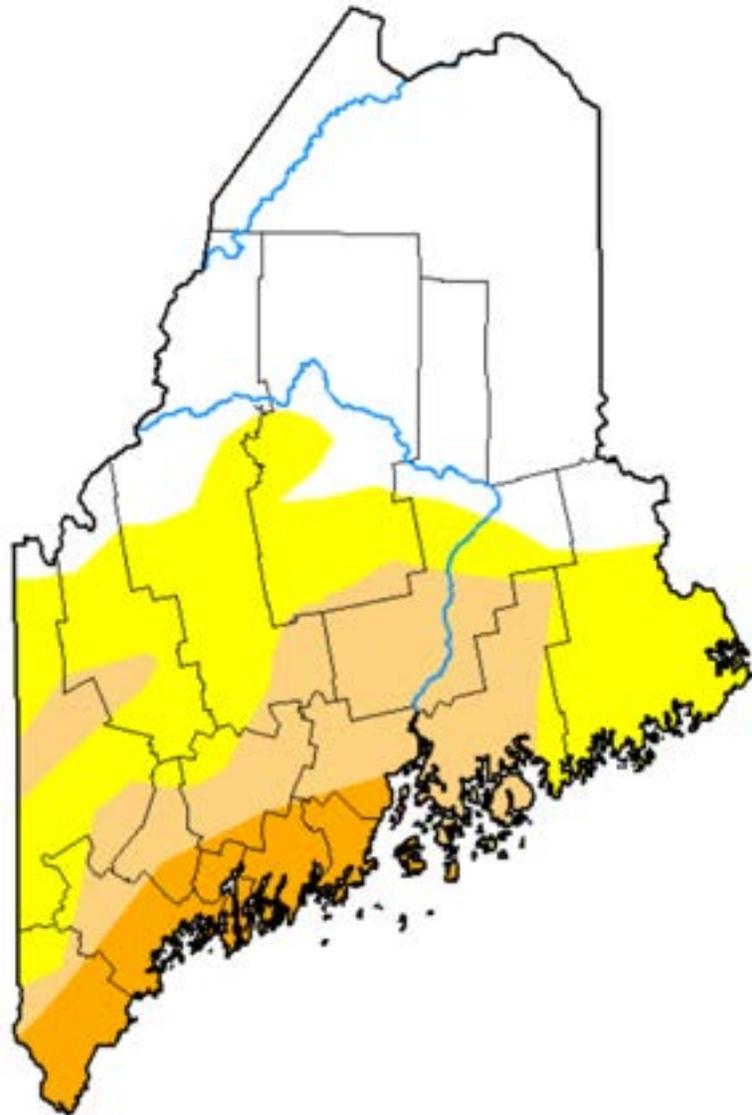




November 3, 2018

U.S. Drought Monitor

Maine



August 16, 2022

(Released Thursday, Aug. 18, 2022)

Valid 8 a.m. EDT

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

Damariscotta Lake 11:11:06 2023-01-19



Species are on the move



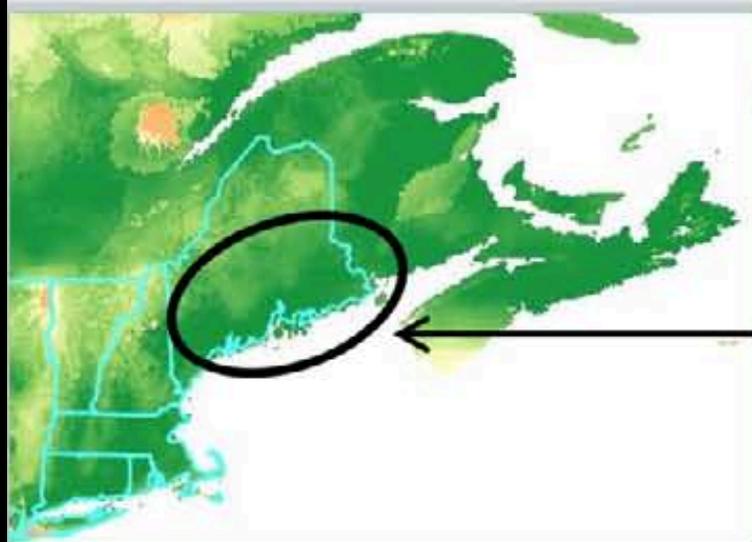






Clarry Hill

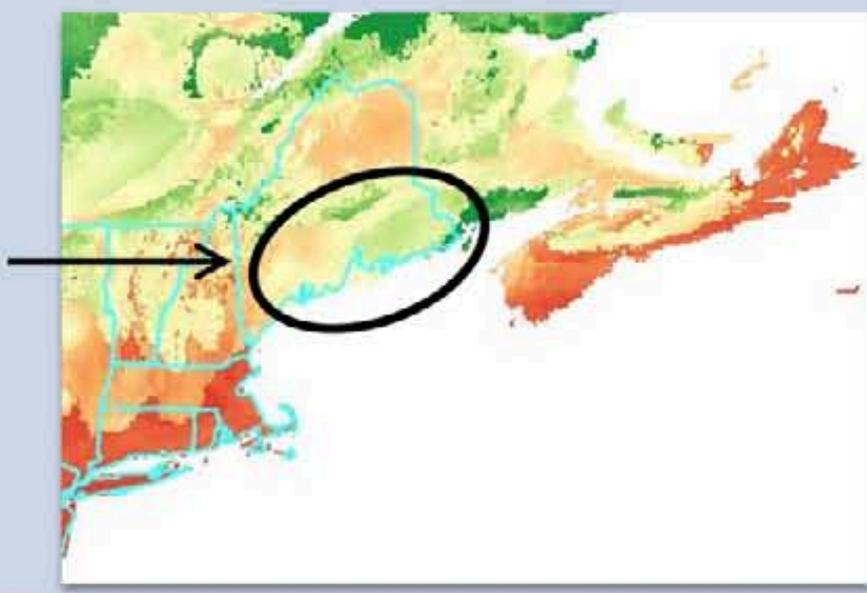
Past and Future Climatic Suitability for Lowbush Blueberry production



1950–2000 suitability
Downeast Maine in the optimum zone.



Forecast
2060–2080 suitability
Downeast Maine becomes marginal.



Source: MaxEnt model output by Brian McGill, Univ. of Maine

Figure 11. Potential decline in suitability of downeast Maine for lowbush blueberry production. B. McGill, personal communication, November 2017.

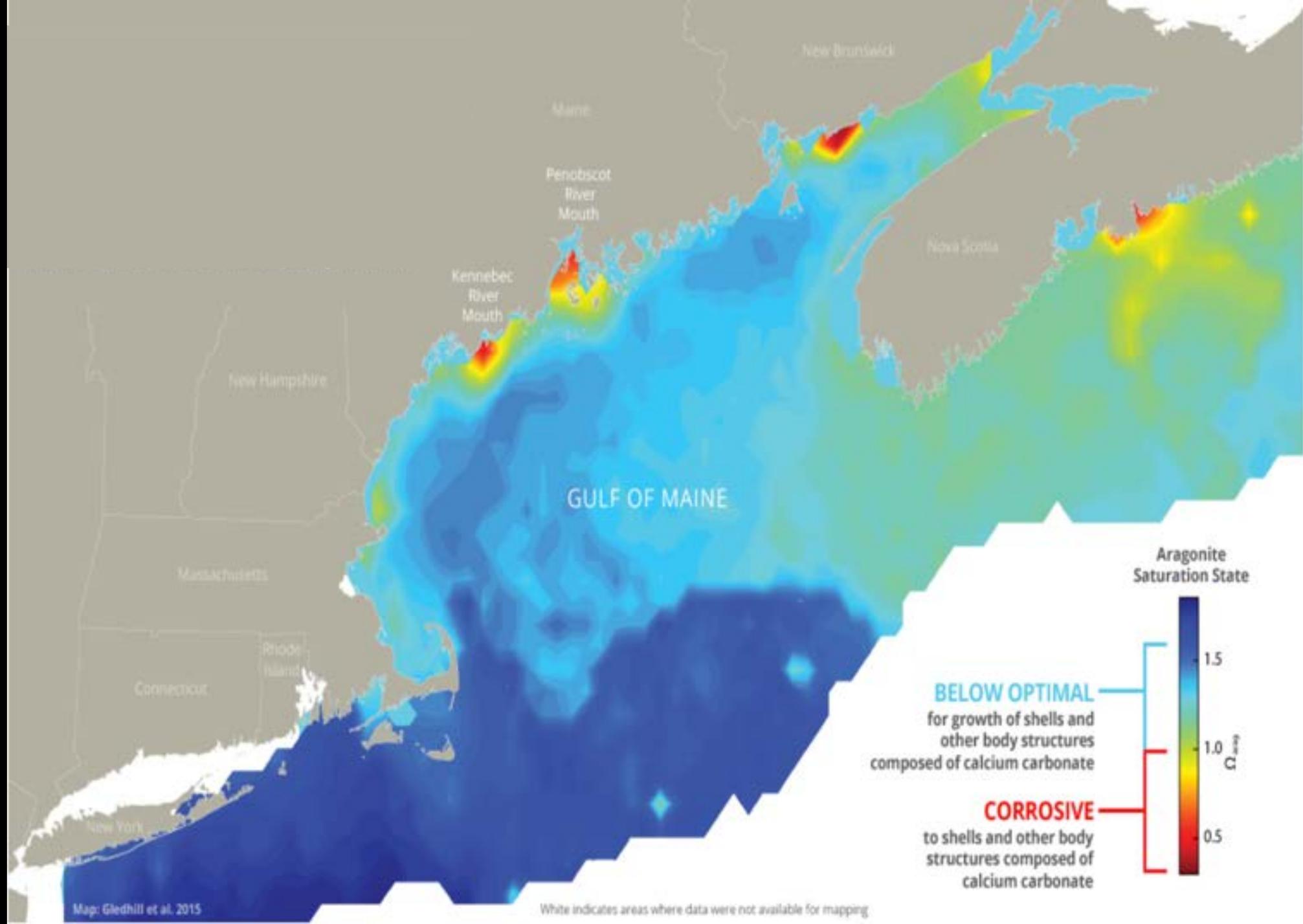












Map: Gledhill et al. 2015

White indicates areas where data were not available for mapping



Waldoboro town landing, January 23, 2023



4 inches a decade





Damariscotta



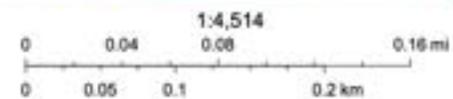
Damariscotta town landing, December 23, 2022

Damariscotta



1/4/2023, 3:49:13 PM

- | | |
|---|--|
|  Highest Astronomical Tide | Maine Orthoimagery 2018 (image layer) |
|  Highest Astronomical Tide Plus 1.2 Feet |  Red: Red |
|  Highest Astronomical Tide Plus 3.9 Feet |  Green: Green |
|  Highest Astronomical Tide Plus 6.1 Feet |  Blue: Blue |



Maine GeoLibrary, Esri, HERE, Garmin, IPC, Massar

Pemaquid Beach



Pemaquid Beach



1/4/2023, 3:53:32 PM

■ Highest Astronomical Tide

■ Highest Astronomical Tide Plus 1.2 Feet

■ Highest Astronomical Tide Plus 3.9 Feet

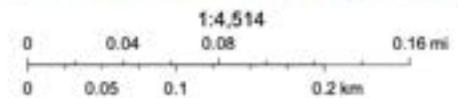
■ Highest Astronomical Tide Plus 6.1 Feet

Maine Orthoimagery 2018 (image layer)

■ Red: Red

■ Green: Green

■ Blue: Blue



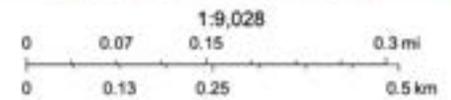
Maine GeoLibrary, Ext. HERE, Garmin, IFC, Mass



Boothbay Harbor



1/4/2023, 3:45:52 PM



Esri, HERE, Garmin, Maine GeoLibrary, Maxar



Ocean Point, December 23, 2022

the beech tree – caroline shaw

we are in crisis

we need to act individually
and collectively

NOW

If we do not take action,
average winter temperatures in Maine
will be 10 – 13°F by late this century.

If we do not take action,
short term summer droughts could
occur nearly every year.

If we do not take action,
precipitation will increase by about 9
inches by mid-century.

Most of this will fall as rain.

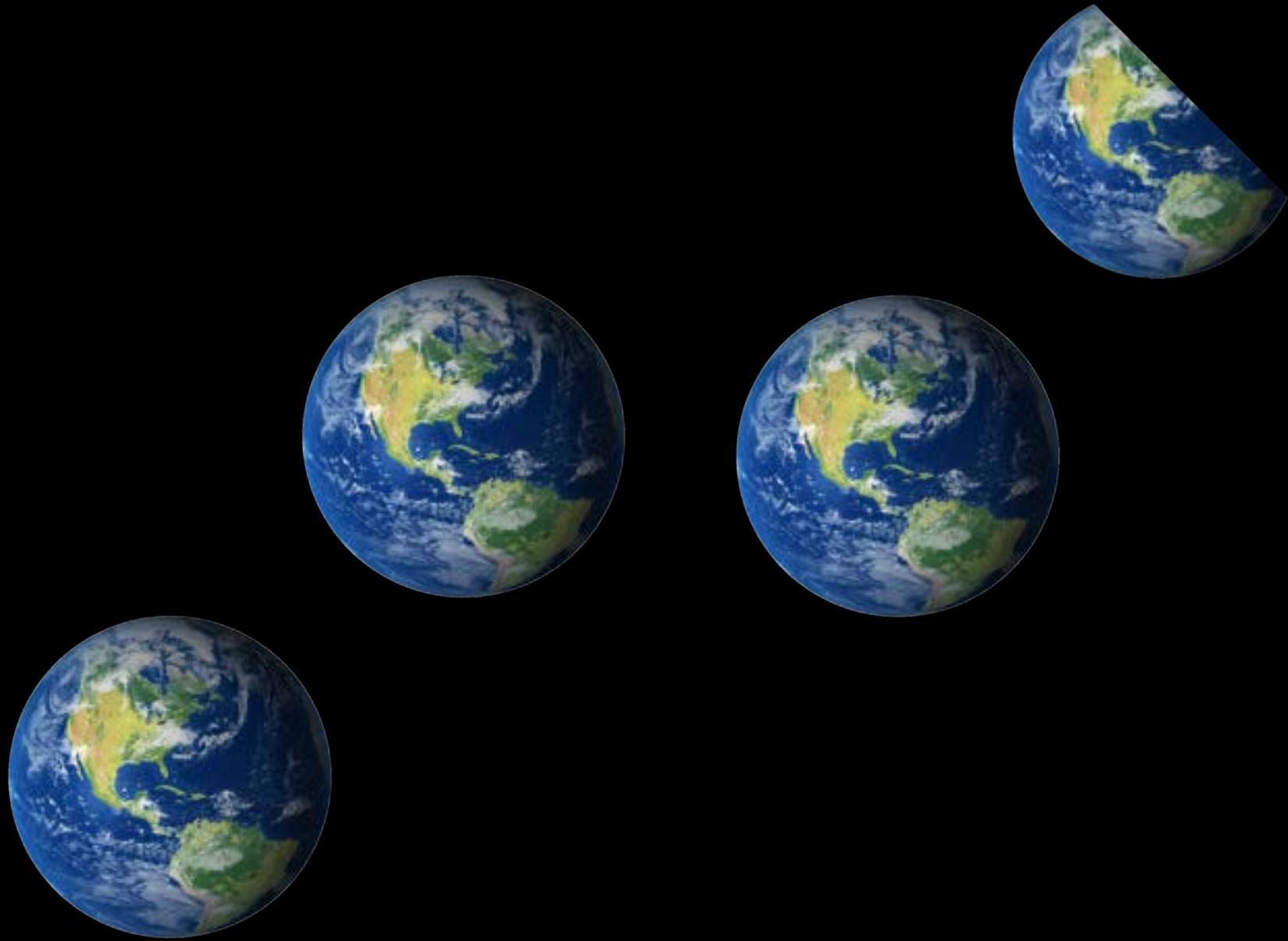
Maine and the Northeast will be
some of the most habitable places
in the country.

More people will move here.

The actions we are taking now are not enough
to alter our current climate trajectory.



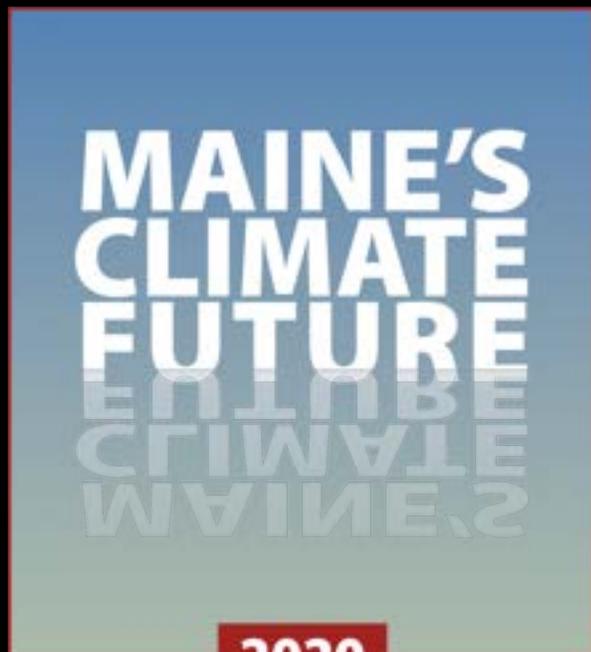
overshoot



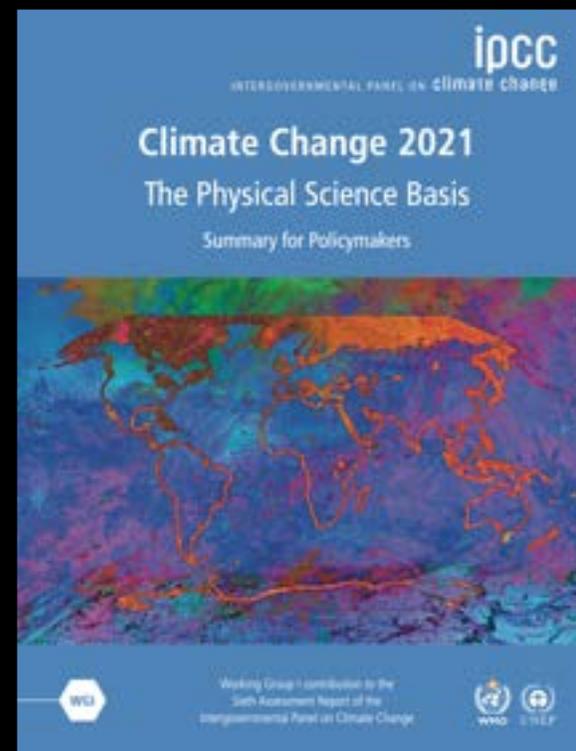
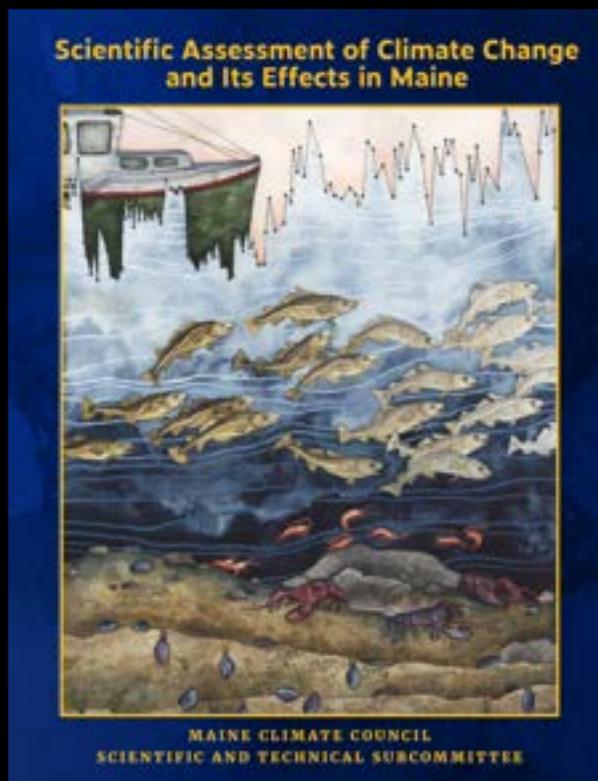


Mack Point, Searsport

Maine's Climate Future



2020
UPDATE







Sheepscot General, Whitefield

Waldoboro



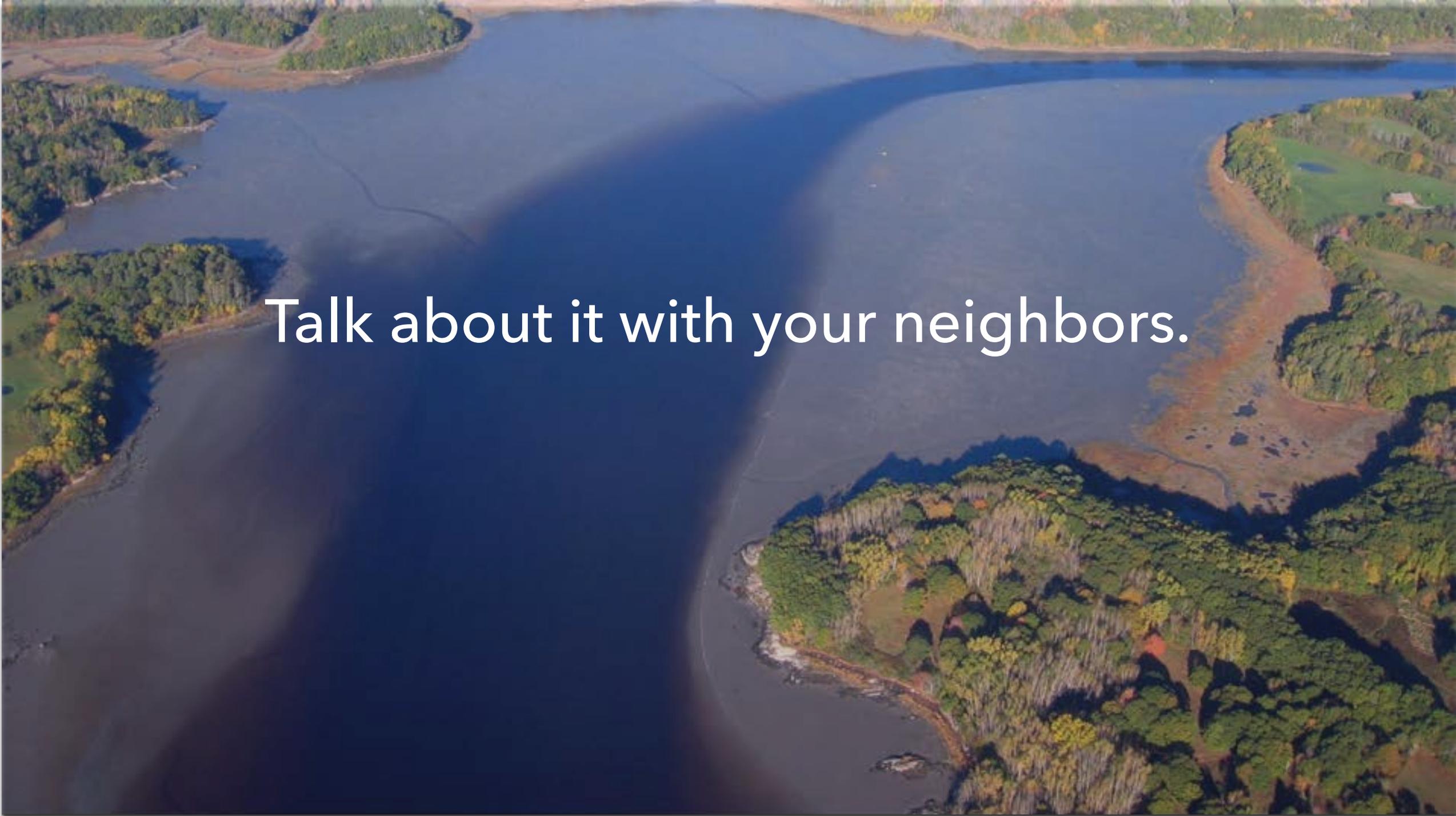




Marsh River
Newcastle



tjønneblomen | water lily
danish traditional

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, indicating autumn. A golf course is visible on the right side of the image. The text "Talk about it with your neighbors." is overlaid in white, sans-serif font in the center of the image.

Talk about it with your neighbors.

An aerial photograph of a large, winding body of water, possibly a reservoir or a wide river. The water is a deep blue-grey color. Several islands and peninsulas are visible, covered in dense green and yellowish-green trees. On the right side, a golf course is visible with its green fairways and a small building. The overall scene is a mix of natural and developed land.

Trust peer-reviewed science.

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, suggesting an autumn setting. A golf course is visible on the right side of the image. The text is centered over the lake.

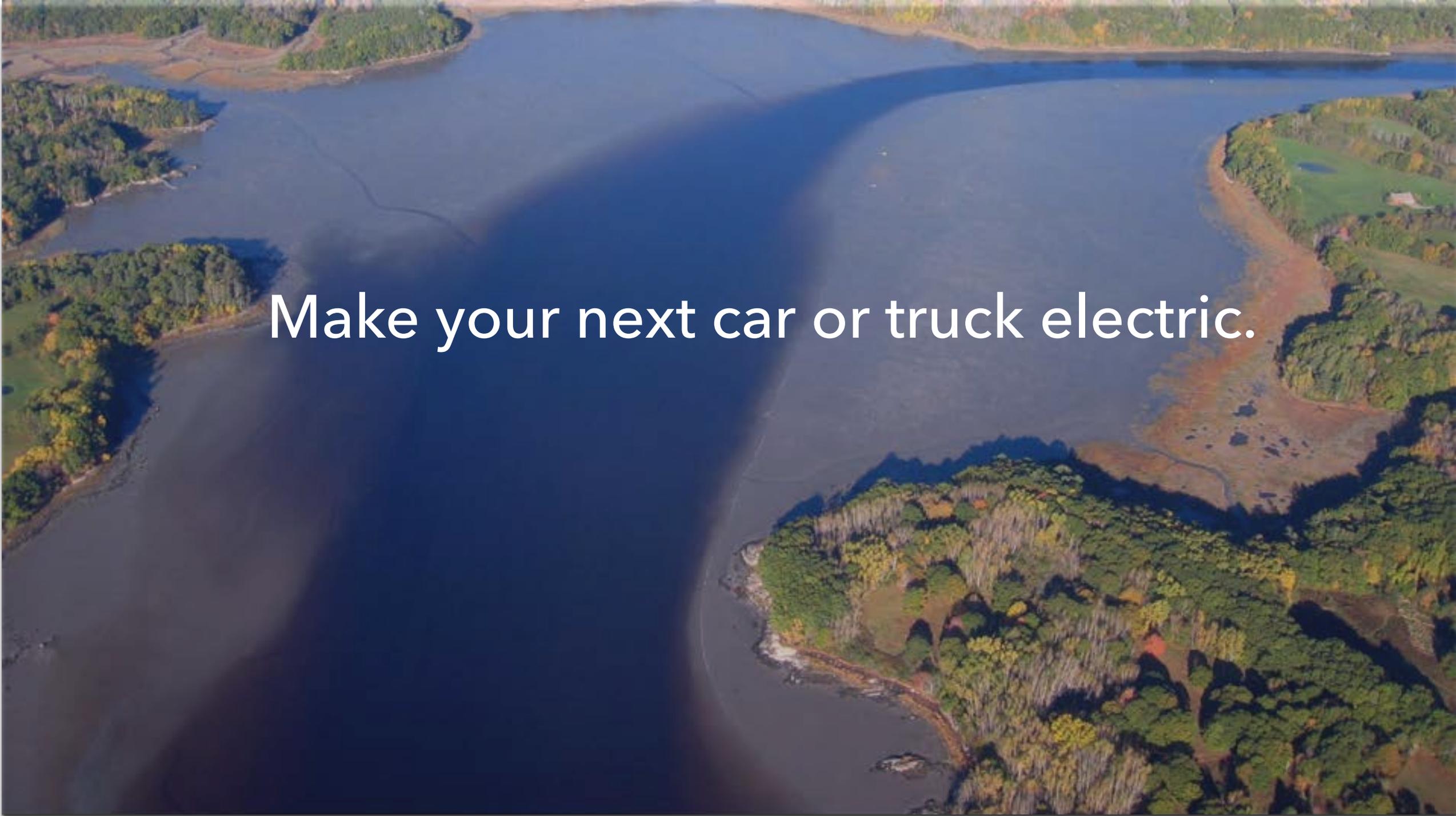
Consume less.
Throw away less.
Travel less.

An aerial photograph showing a large, winding body of water, likely a reservoir or a large river bend. The water is a deep blue-grey color. Several islands and peninsulas are visible, covered in dense forest with varying shades of green and yellow, suggesting autumn foliage. The shoreline is irregular, with some areas appearing to be wetlands or marshes. The overall scene is a natural landscape with significant water and forest cover.

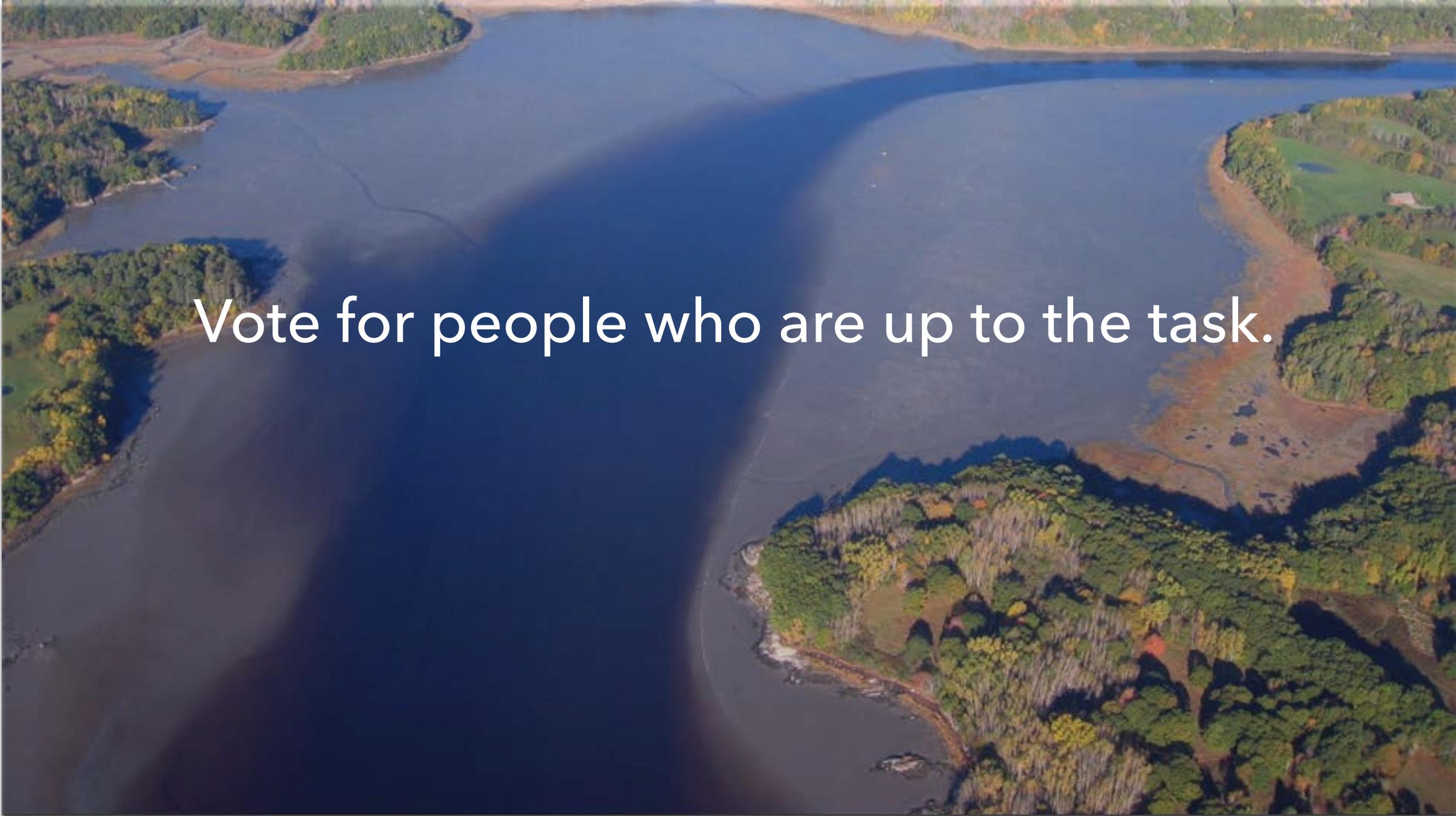
Help conserve big tracts
of forest and wetland.

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, suggesting an autumn setting. A golf course is visible on the right side of the image. The text "Install a solar array and heat pump in your home." is overlaid in white, bold, sans-serif font in the center of the image.

Install a solar array and heat pump in your home.

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, indicating autumn. A golf course is visible on the right side of the image. The text "Make your next car or truck electric." is overlaid in white, sans-serif font across the center of the lake.

Make your next car or truck electric.

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, indicating autumn. A golf course is visible on the right side of the image. The text "Vote for people who are up to the task." is overlaid in white, sans-serif font across the center of the lake.

Vote for people who are up to the task.

An aerial photograph of a large, dark blue lake with several forested islands and peninsulas. The surrounding land is covered in dense green and yellow trees, suggesting an autumn setting. A golf course is visible on the right side of the image. The text "Build community around the issue." is overlaid in white, sans-serif font in the center of the lake.

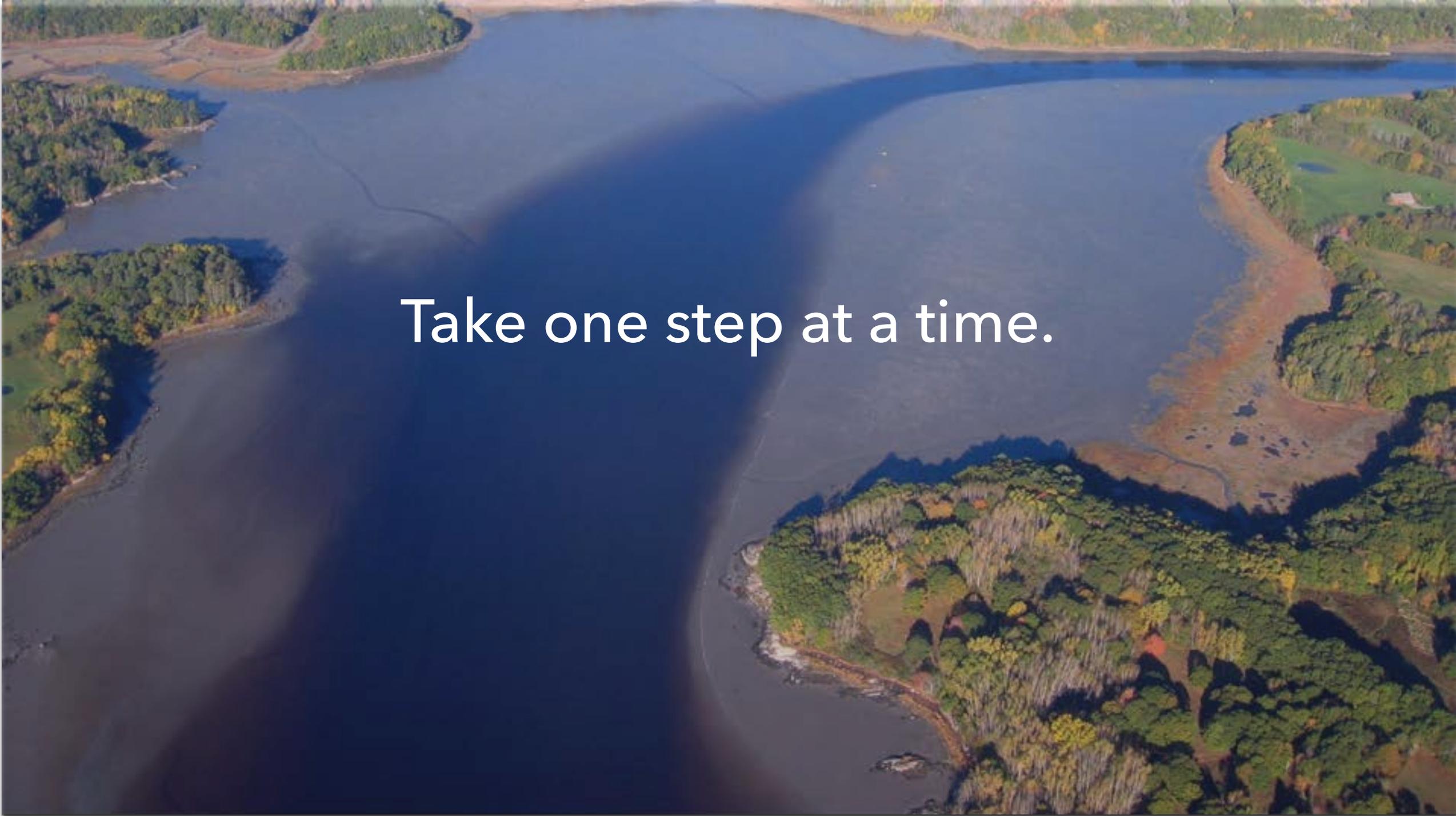
Build community around the issue.

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, indicating autumn. A golf course is visible on the right side of the image. The text "Be compassionate." is overlaid in white in the center of the lake.

Be compassionate.

An aerial photograph of a large, winding body of water, possibly a reservoir or a large river system. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellowish-green trees, indicating a forested area. A golf course is visible on the right side of the image, with a green fairway and a small building. The overall scene is a mix of natural and developed land.

Complacency = Complicity

An aerial photograph of a large, winding lake with several forested islands. The water is a deep blue-grey color. The surrounding land is covered in dense green and yellow trees, indicating autumn. A golf course is visible on the right side of the image. The text "Take one step at a time." is overlaid in white on the water.

Take one step at a time.

