Conservation Planning for Resilient and Connected Landscapes

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MIDCOAST CONSERVANCY

with thanks to Ruth Indrick, Project Coordinator

KENNEBEC ESTUARY LAND TRUST

12 RIVERS Conservation Initiative

Land trusts working together to connect the natural landscapes of midcoast Maine

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Boothbay Region Land Trust

Medomak Valley Land Trust

Kennebec Estuary Land Trust

The Georges River Land Trust

Pemaquid Watershed Association

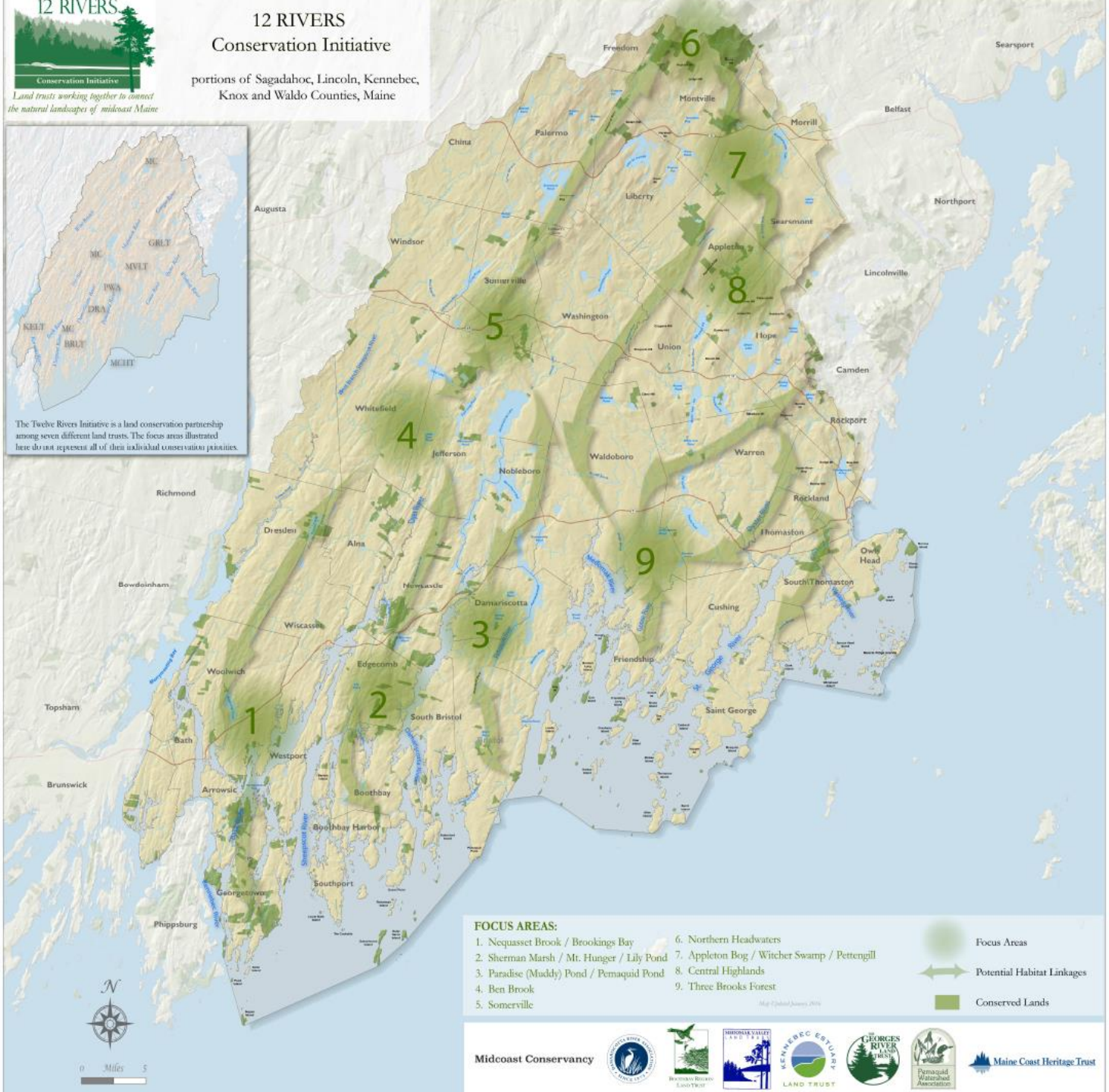
Damariscotta River Association · Since 1973 ·

Midcoast Conservancy

Maine Coast Heritage Trust

Conservation Planning: Initial Steps

- Prepared base maps
  - Topography and hydrogpahy
  - Conserved Properties, LT focus areas
  - Habitat (MNAP)
  - Undeveloped habitat blocks
- ID portfolio lakes/streams: TNC Maine Aquatics Database
- Habitat Connectivity Modeling Project (Dan Coker, TNC)
- Review aerial photos, connectivity study data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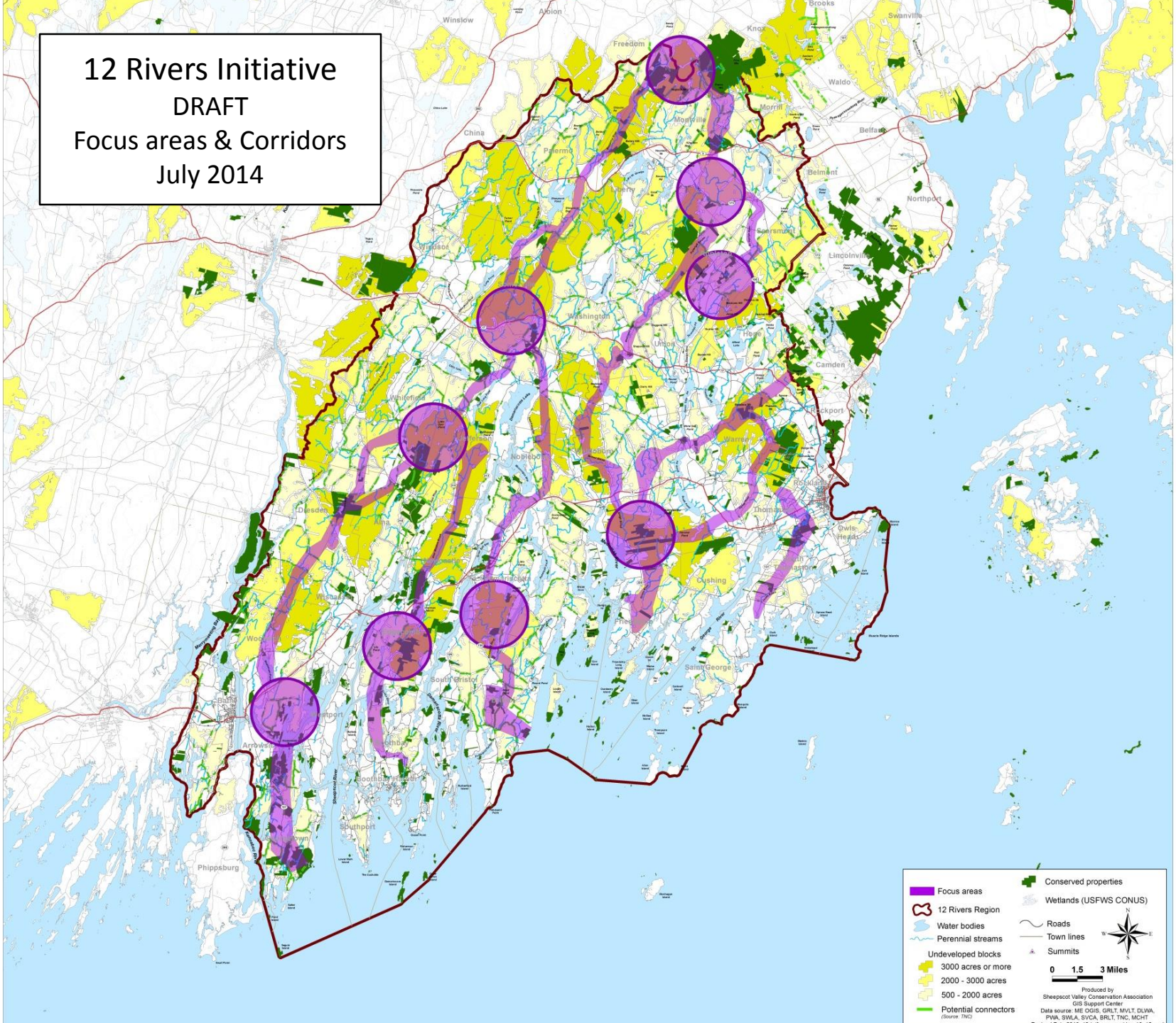
Conservation Initiative
portions of Sagadahoc, Lincoln, Kennebec, Knox and Waldo Counties, Maine
The Twelve Rivers Initiative is a land conservation partnership among seven different land trusts. The focus areas illustrated here do not represent all of their individual conservation priorities.
FOCUS AREAS:
1. Nequasset Brook / Brookings Bay
2. Sherman Marsh / Mt. Hunger / Lily Pond
3. Paradise (Muddy) Pond / Pemaquid Pond
4. Ben Brook
5. Somerville
6. Northern Headwaters
7. Appleton Bog / Witcher Swamp / Pettengill
8. Central Highlands
9. Three Brooks Forest
Focus Areas
Potential Habitat Linkages
Conserved Lands
Midcoast Conservancy
Maine Coast Heritage Trust
N
0 Miles 5


12 Rivers Initiative
DRAFT
Focus areas & Corridors
July 2014
Focus areas
12 Rivers Region
Water bodies
Perennial streams
Undeveloped blocks
3000 acres or more
2000 - 3000 acres
500 - 2000 acres
Potential connectors
(Source: TNC)
Conserved properties
Wetlands (USFWS CONUS)
Roads
Town lines
Summits
0 1.5 3 Miles
Produced by
Sheepscot Valley Conservation Association
GIS Support Center
Data source: ME OGIS, GRLT, MVLT, DLWA, PWA, SWLA, SVCA, BRLT, TNC, MCHT

New Climate Data + Support

- Look again at the conservation plan
  - Re-examine focus area, corridor locations
  - Work at the edges (off the map)
  - Identify key parcels for climate resilience in each Land Trust service area
- Learn how to connect around climate change with those outside land trusts

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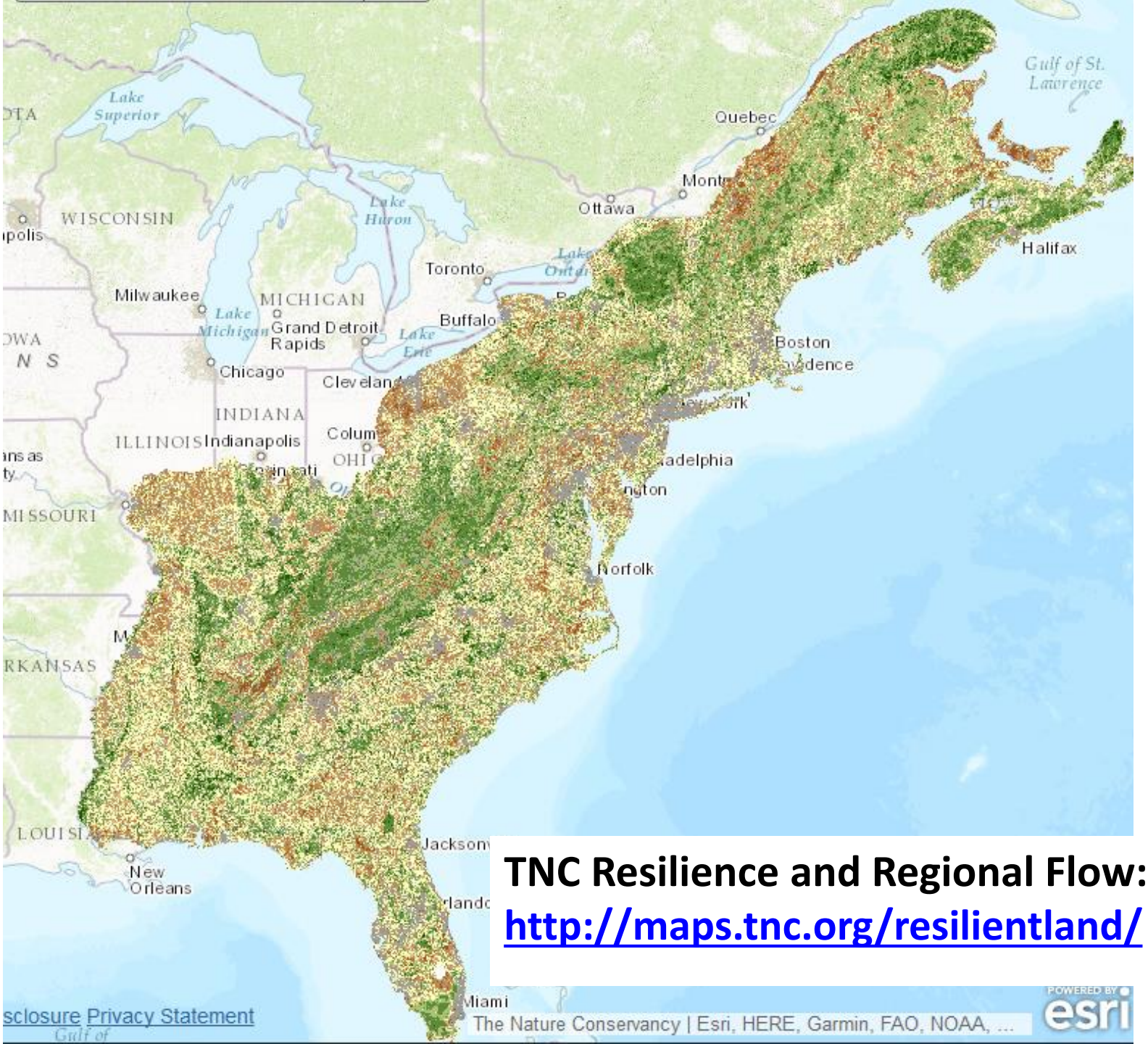
Land Trust Alliance
Together, conserving the places you love

OPEN SPACE INSTITUTE



TNC Resilience and Regional Flow:
http://maps.tnc.org/resilientland/


Lake Superior
Lake Huron
Lake Michigan
Lake Erie
Gulf of St. Lawrence
WISCONSIN
MICHIGAN
INDIANA
ILLINOIS
OHIO
MISSOURI
Milwaukee
Chicago
Grand Rapids
Detroit
Buffalo
Toronto
Ottawa
Quebec
Halifax
Boston
Norfolk
Jacksonville
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The Nature Conservancy | Es
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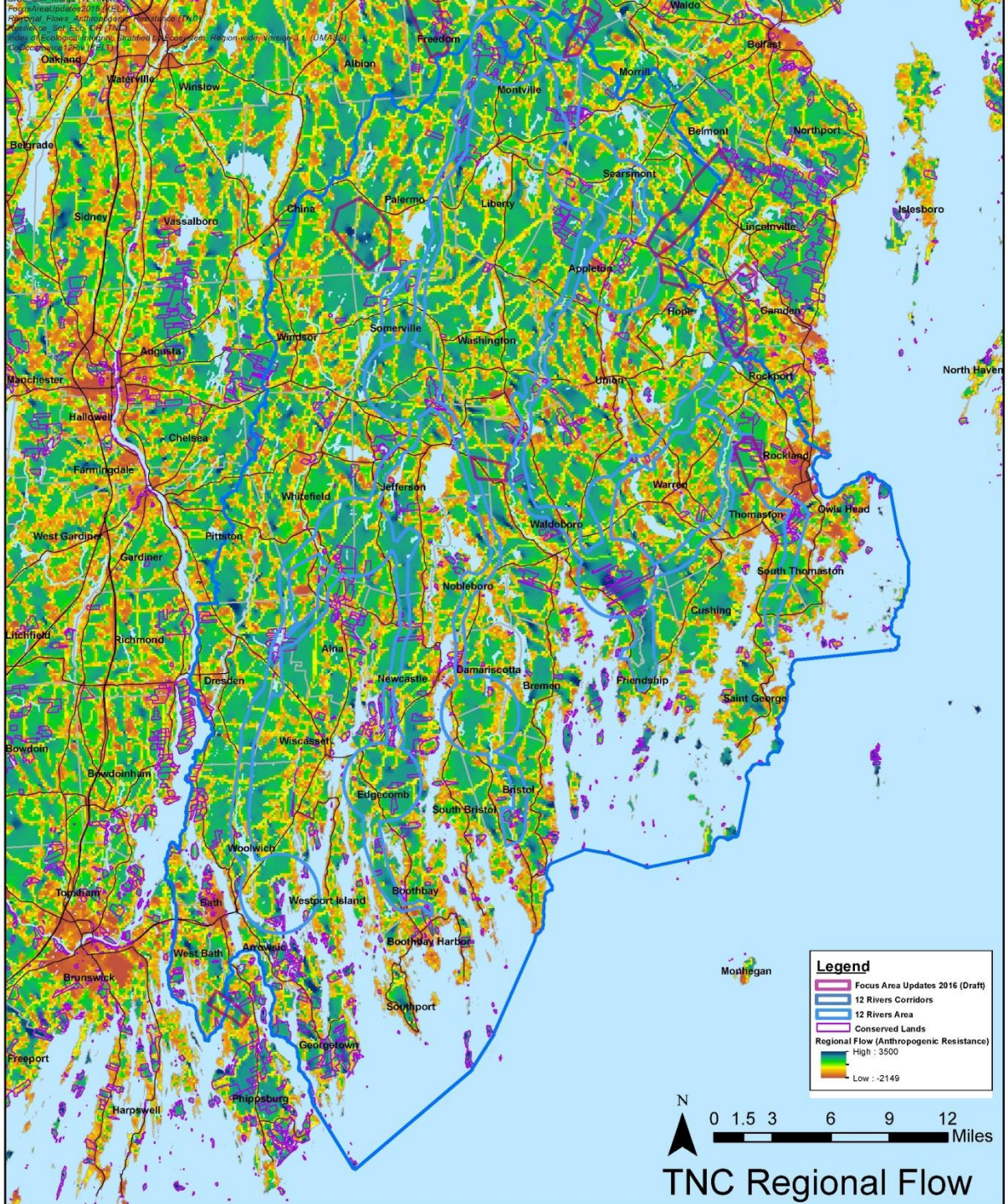
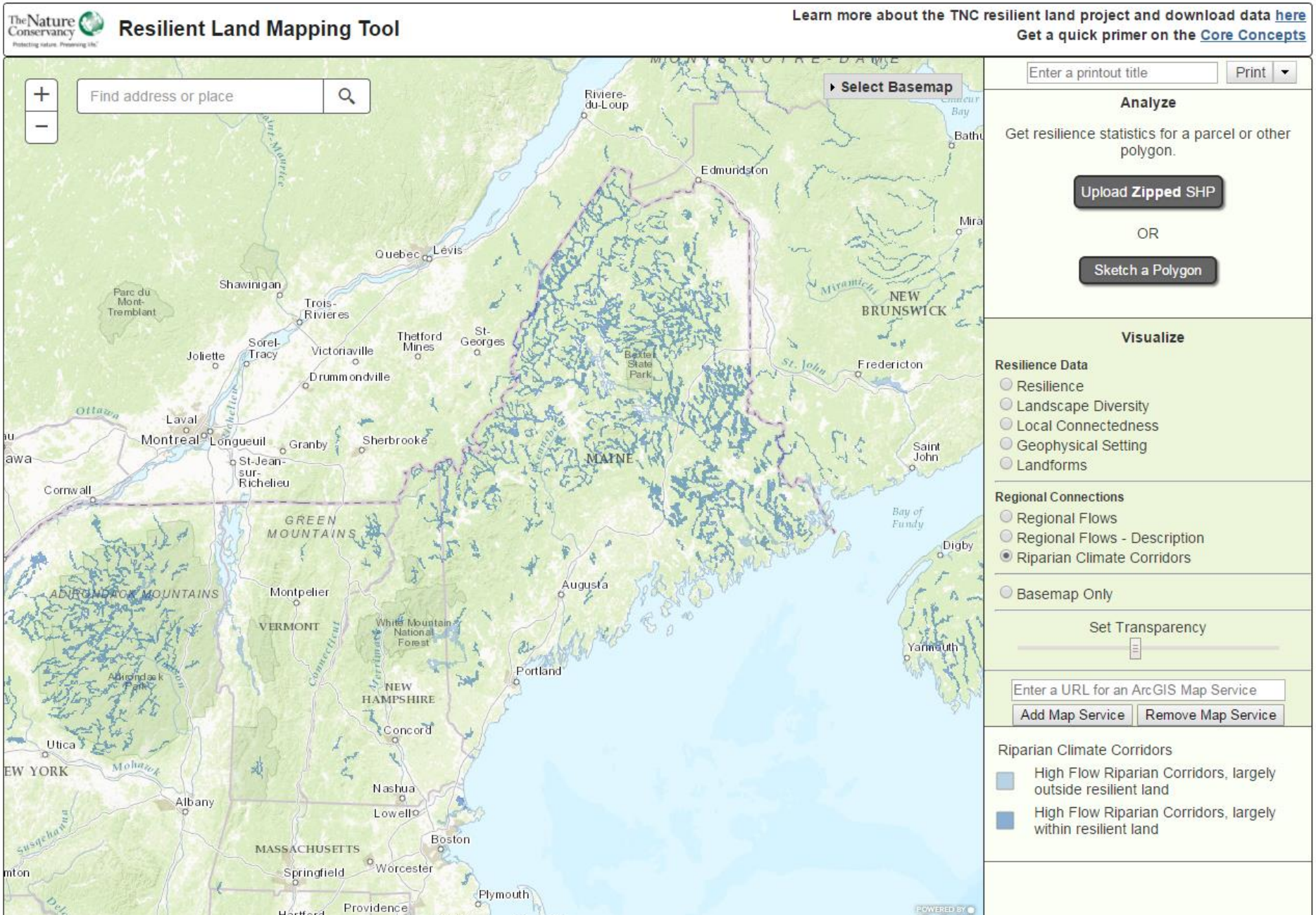
Regional Flow of the 12 Rivers Area

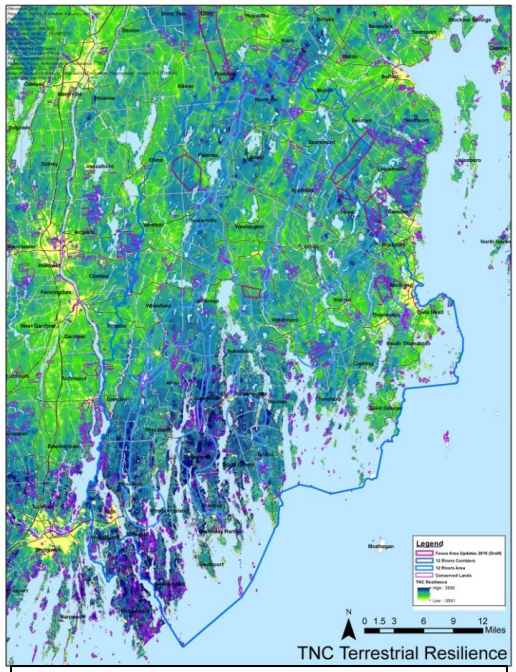


Riparian Climate Corridors Data

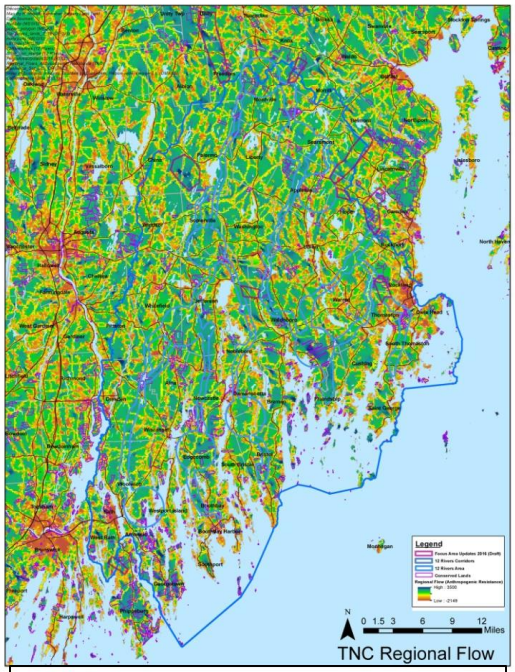


Combining Resilience, Regional Flow, and Existing Priorities

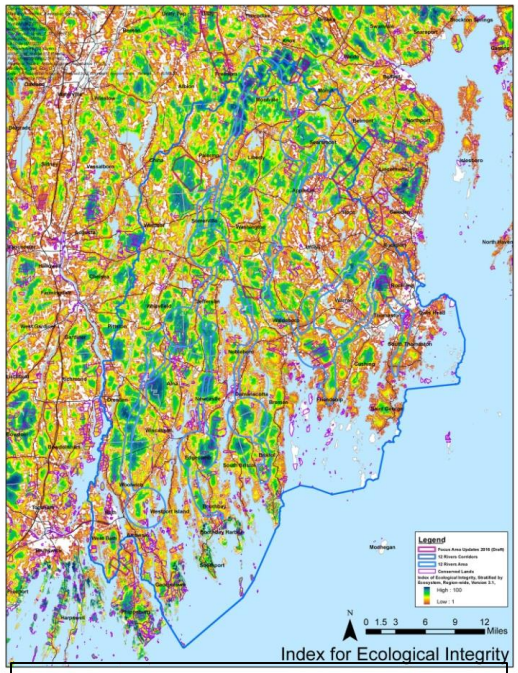
A Co-Occurrence Model



Resilience

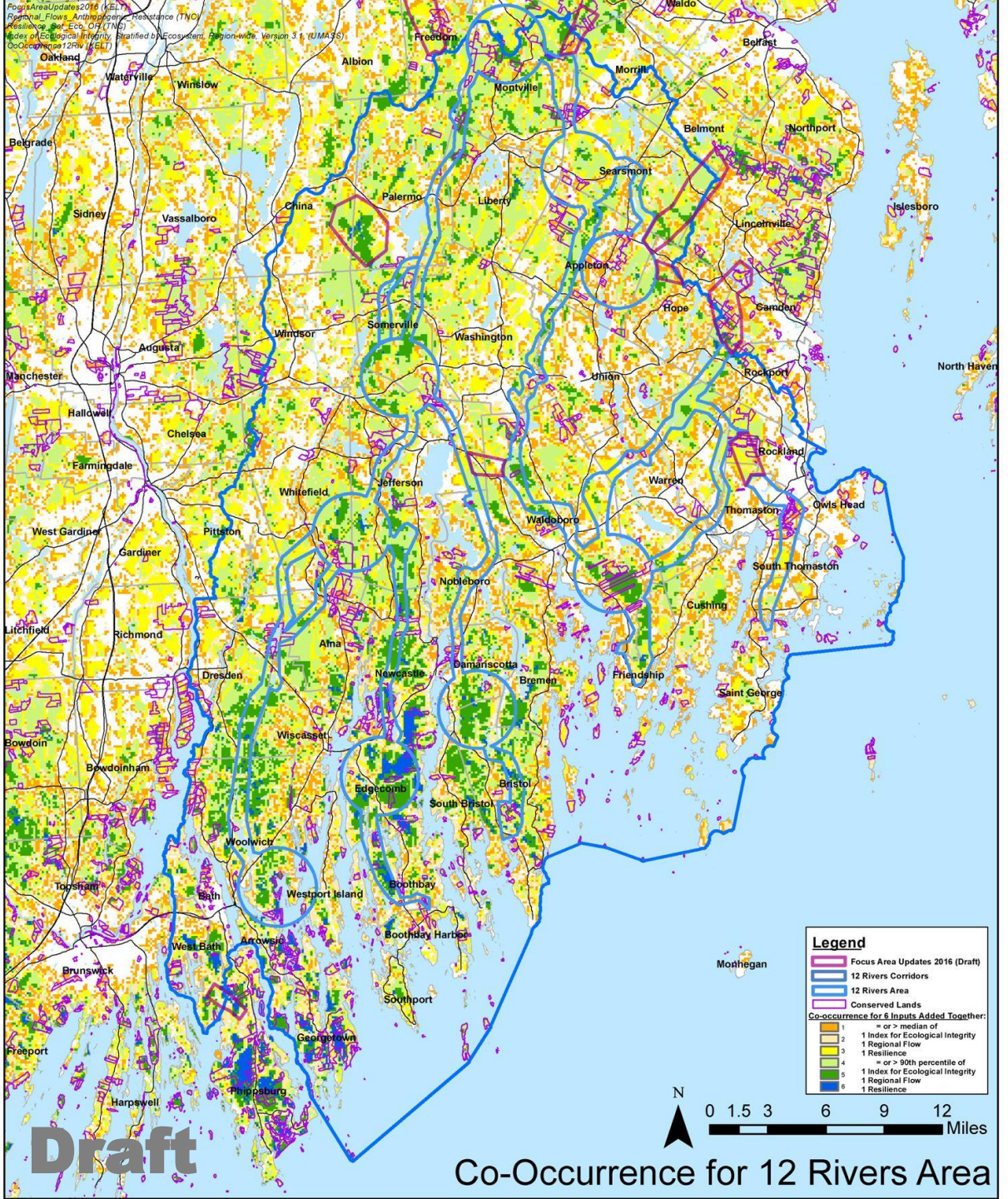


Regional Flow

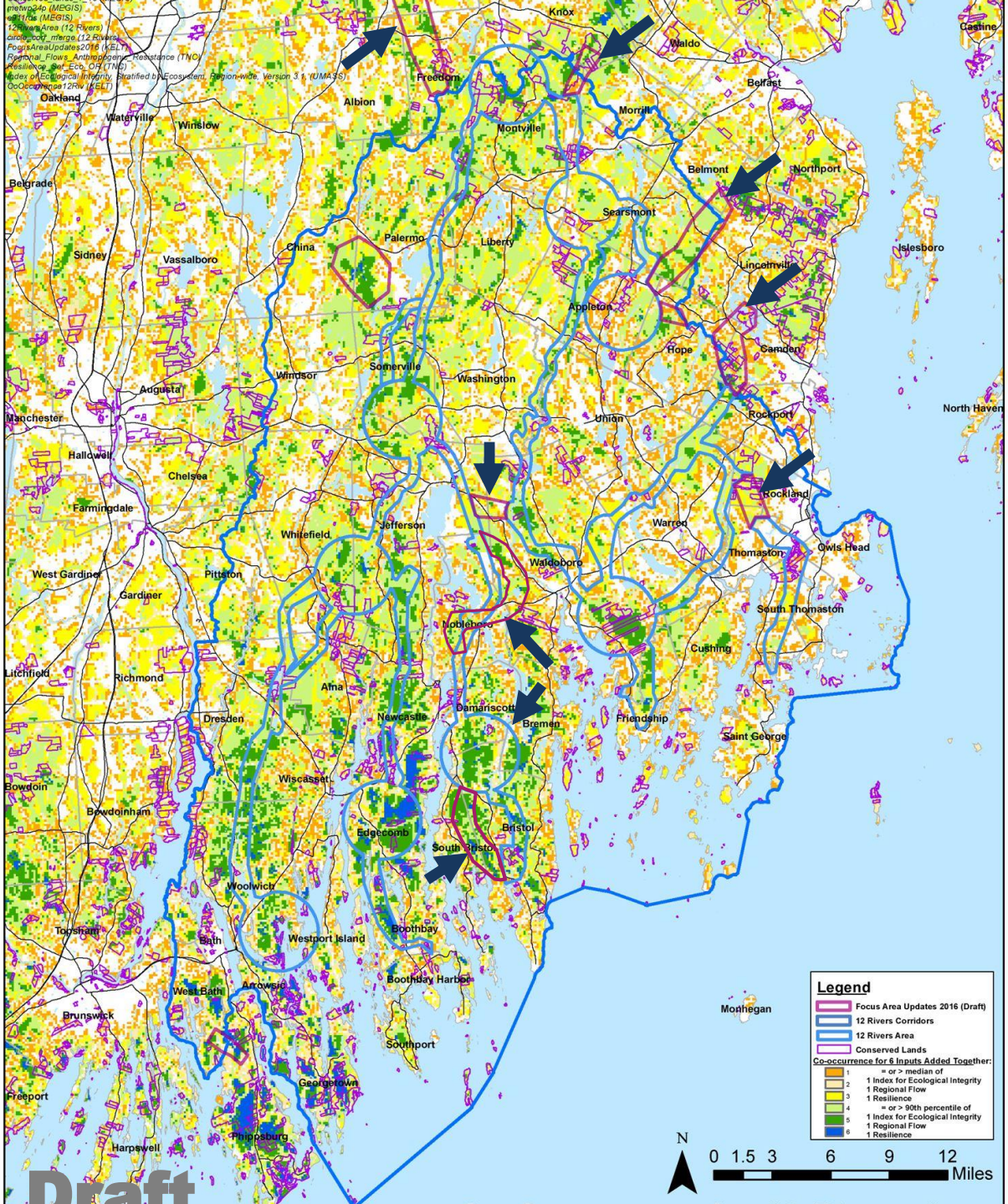


The Index for Ecological Integrity

Sum Co-Occurrence Model of the 12 Rivers Area



Proposed Adjustments to the Conservation Plan



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What We've Learned

- Original conservation plan was strong
- Resilience data provide an additional lens
- Conservation planning an ongoing process
- Next steps range from board engagement to engaging municipal/local involvement

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Thanks!

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