





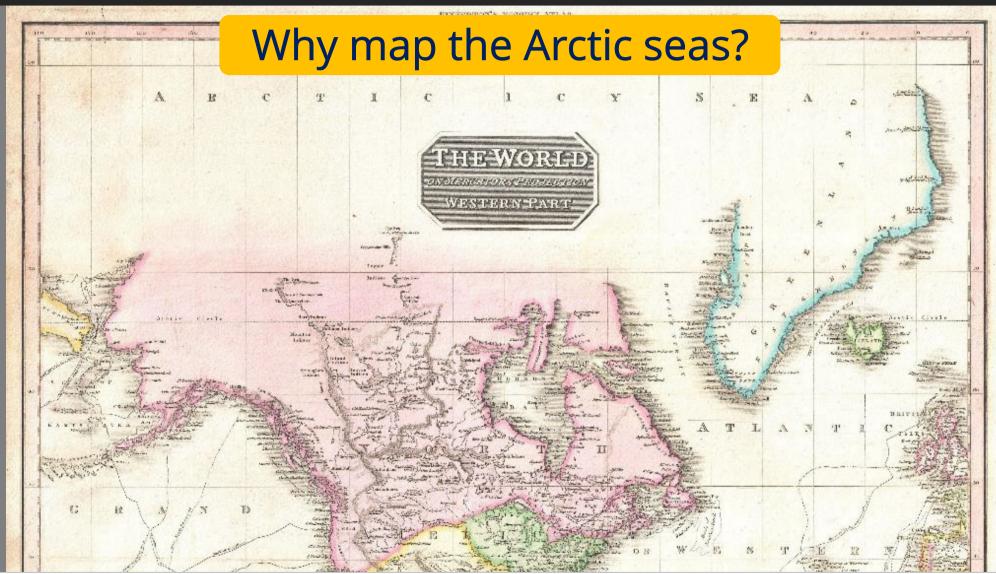
Audubon Alaska

is a science-based conservation organization that works to protect birds, other wildlife, and their habitats across the Great Land of Alaska. We use science to identify conservation priorities and support conservation actions and policies, with an emphasis on public lands and waters, and through education we seek to raise public awareness about the natural ecosystems of Alaska.



Image: Milo Burcham













Audubon



Image: Phil Clapham/NO.



Overview of Presentation

Part 1 Data to design:
building an ecological atlas
Part 2 Atlas overview:
what's inside
Part 3 Next steps:
identifying ecological
hotspots and stressors



Image: Milo Burcham



Data Gathering

Identify available data

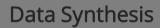
Acquire and organize

Design

Annual cycle maps

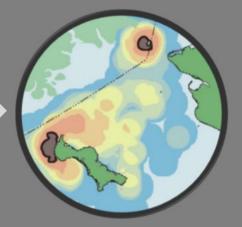
Identify patterns

Assessment & planning



Spatial analysis

Composite data layers









Census

- Seabird colony
- Pinniped haulout





Survey Transects

- At-sea
- Aerial





Telemetry

- GPS
- Geolocator



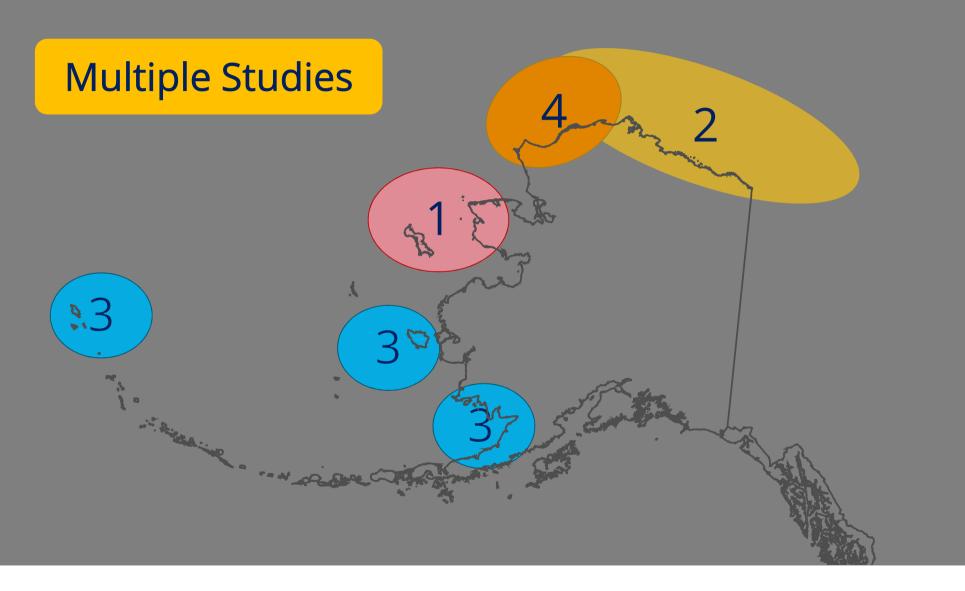


Expert

- Indigenous/ traditional knowledge
- Citizen science

lilo Burcham, Laura Morse, USFWS, Martha de Jong Lantik

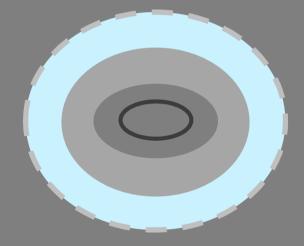






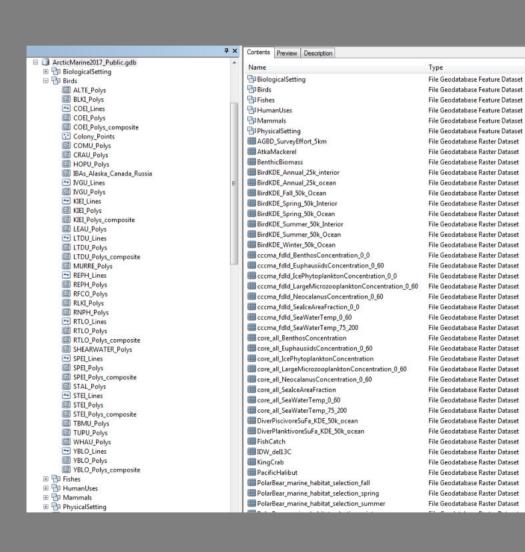
Intensity

- Extent of range
- Regular use
- Concentration
- High concentration



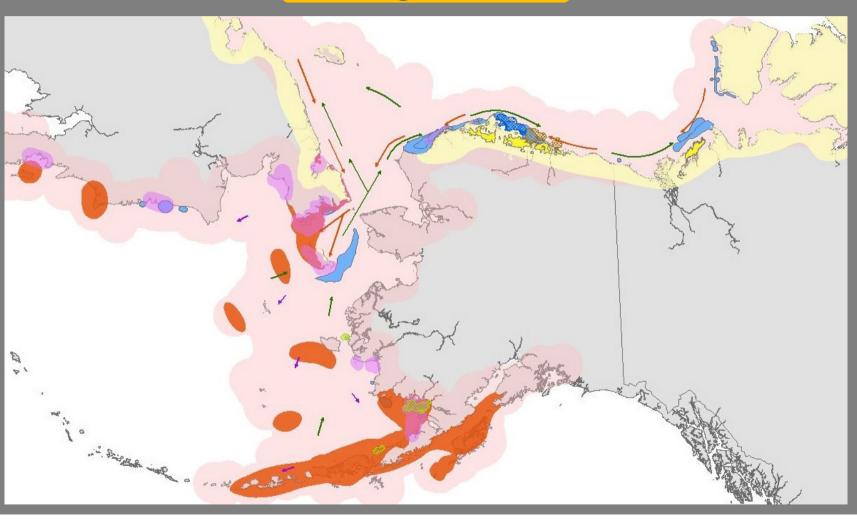






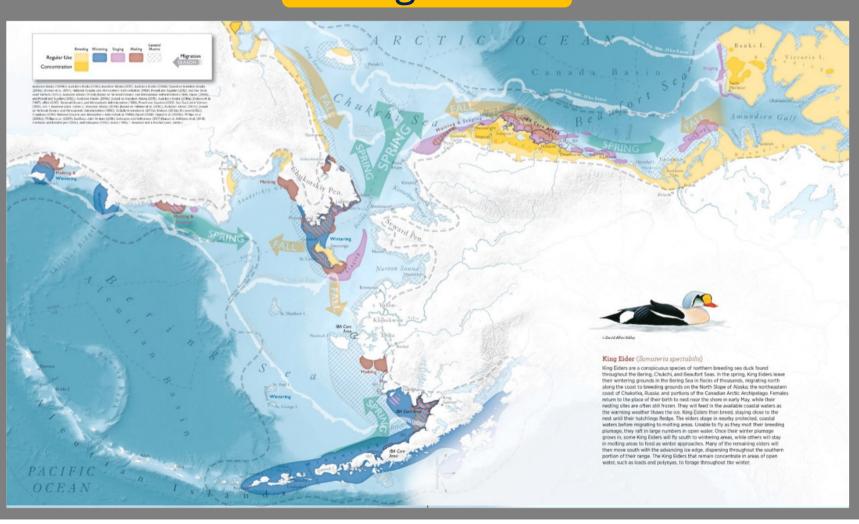


King Eider



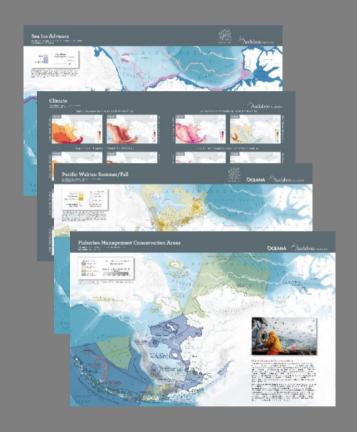


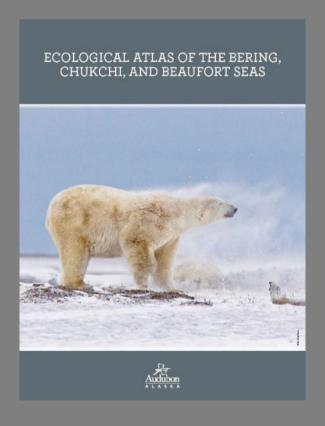
King Eider





Atlas Published August 2017



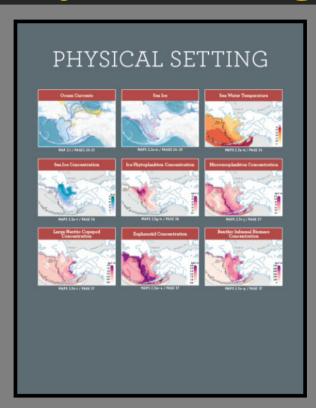


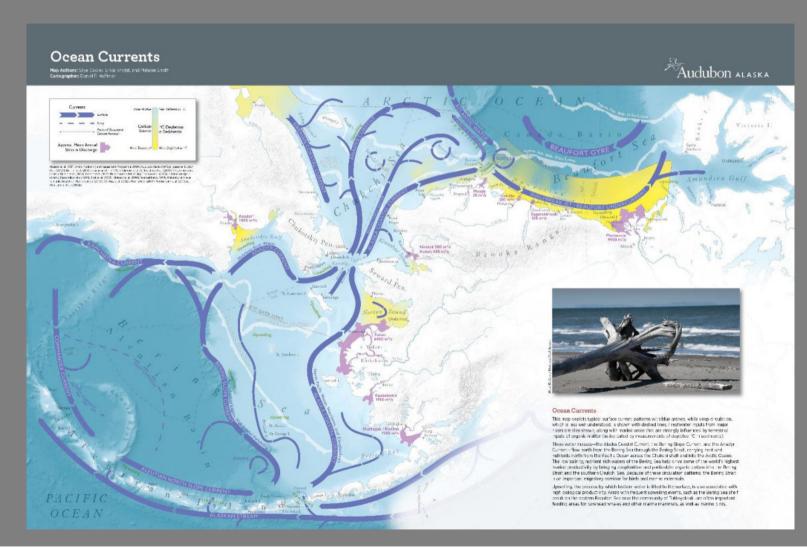


http://bit.ly/eco-atlas

Physical Setting

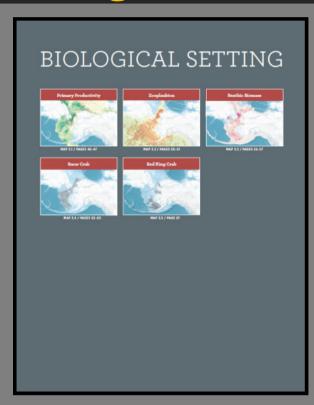


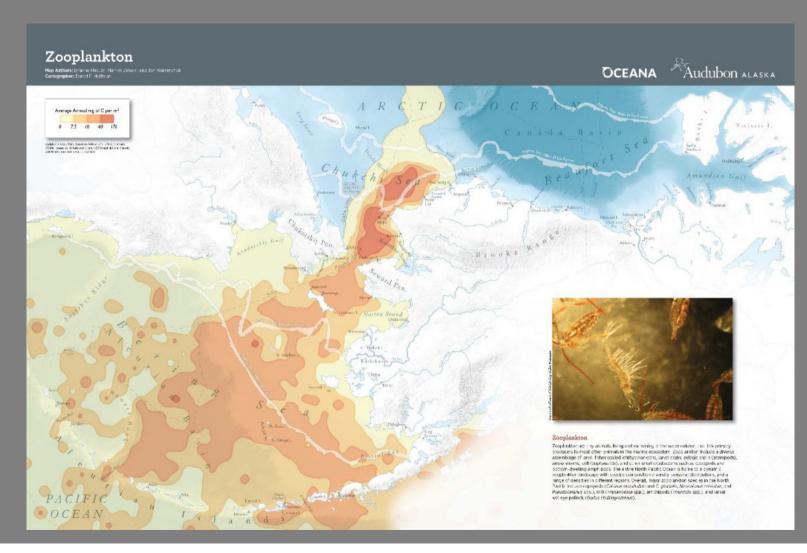




Biological Setting



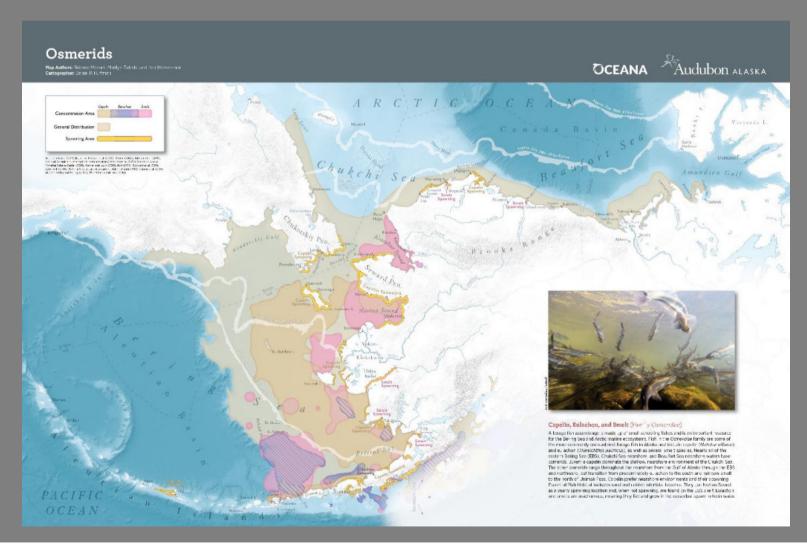




Fishes



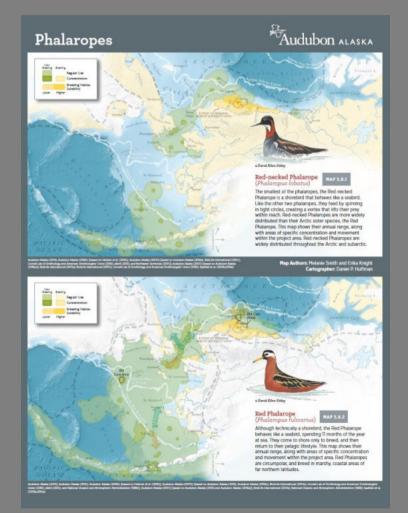


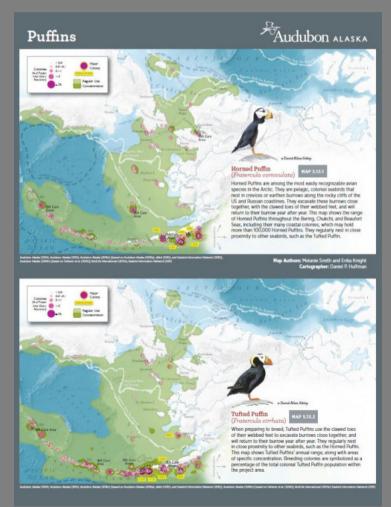


Birds



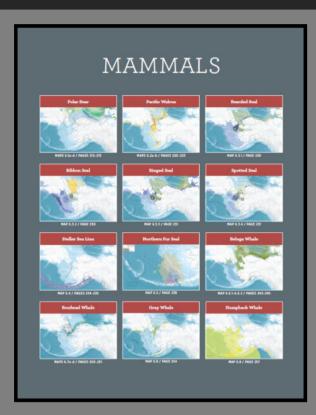


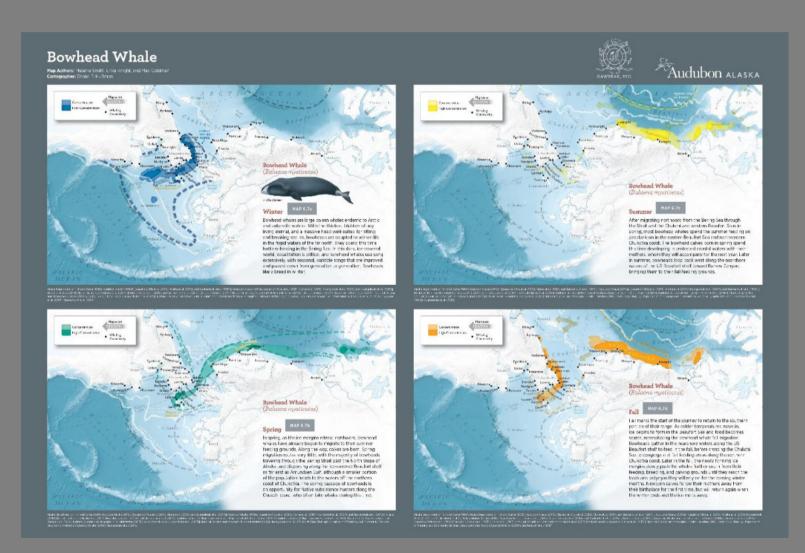




Mammals

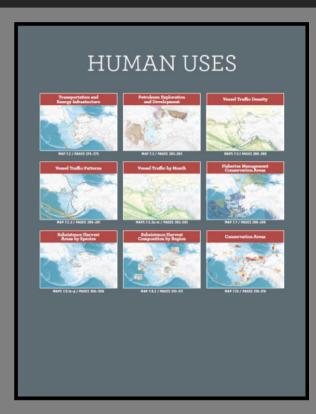


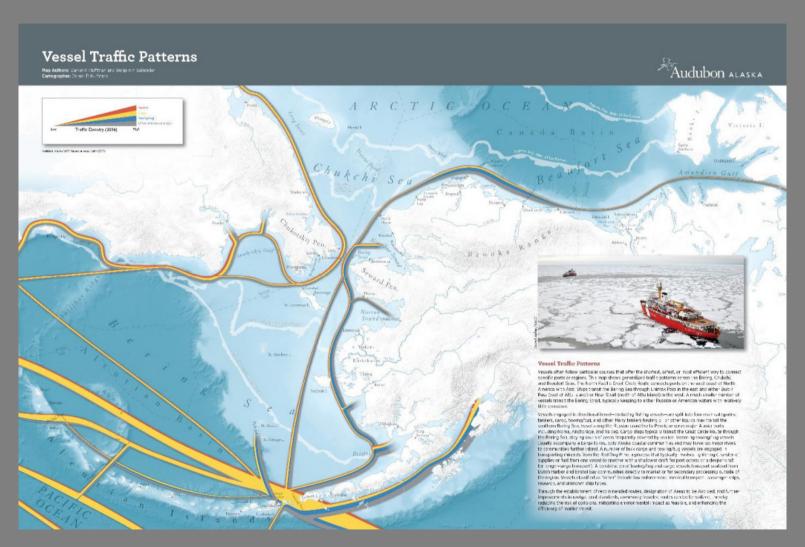




Human Uses



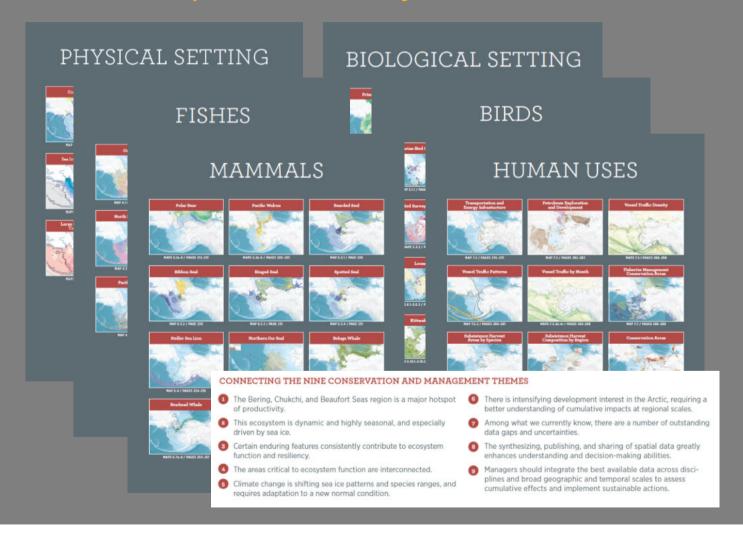




Atlas Overview



Six Thematic Chapters + Summary





Data Gathering

Identify available data

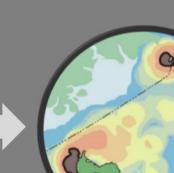
Acquire and organize

Design

Annual cycle maps

Identify patterns

Assessment & planning

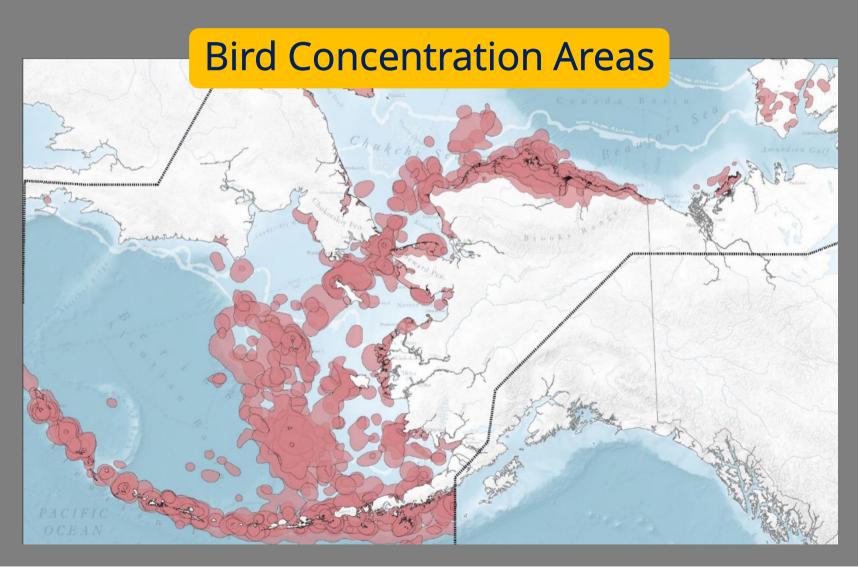


Data Synthesis

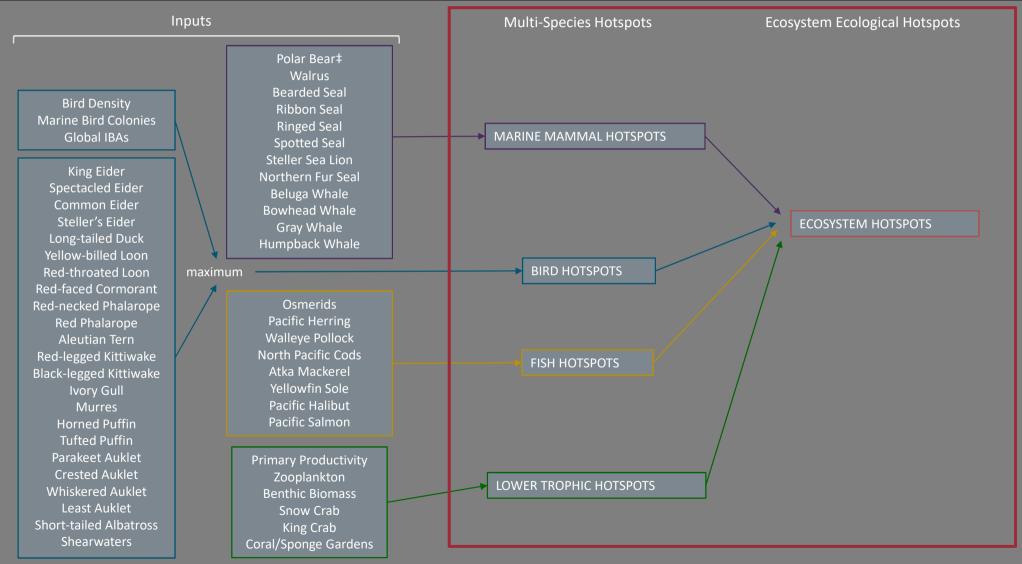
Spatial analysis

Composite data layers

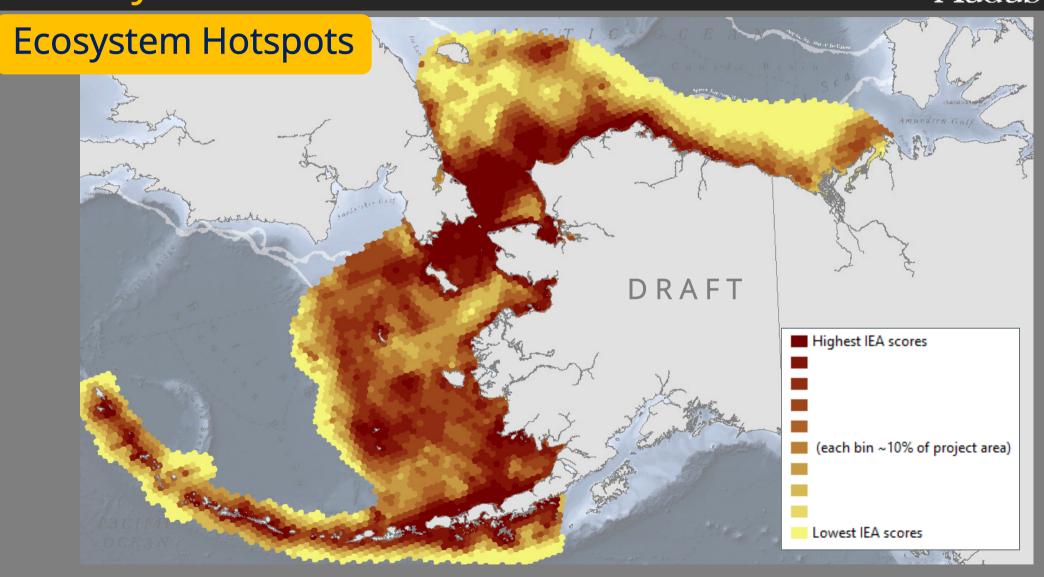






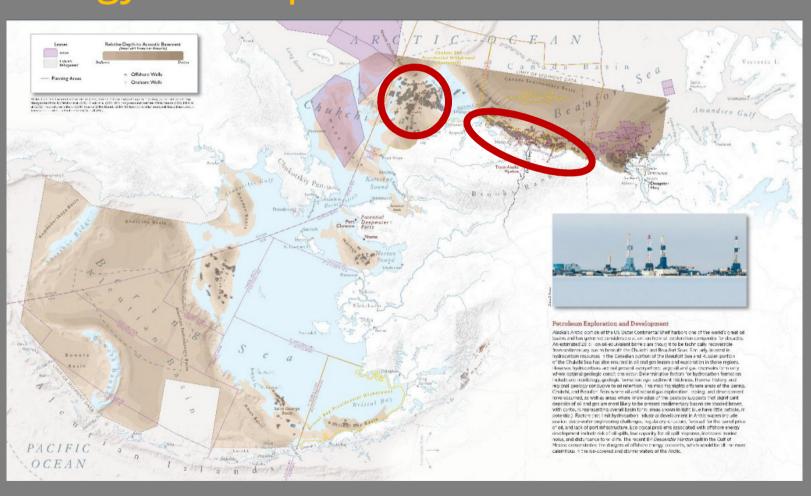






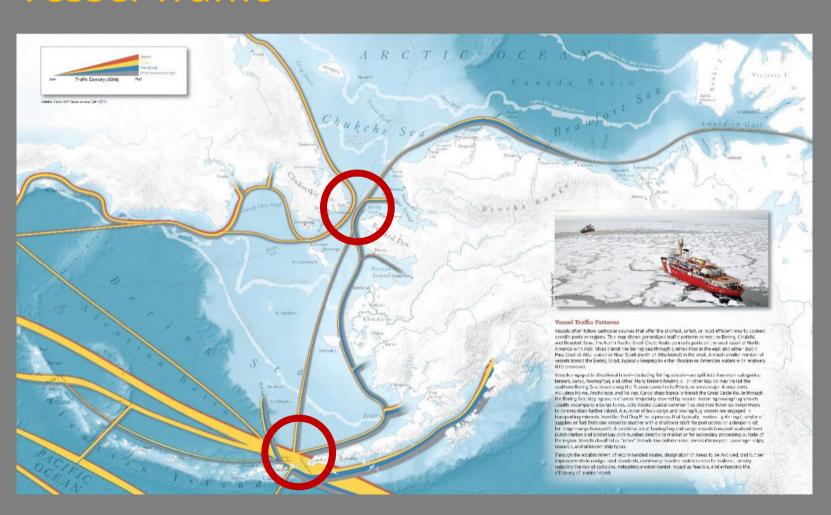


Energy Development





Vessel Traffic





Assessing Vulnerability

- Four main stressors
 - Commercial fisheries
 - Offshore energy
 - Vessel traffic
 - Climate change
- Anticipated completion: December 2018





Thank you!

Download the atlas at:

http://bit.ly/ecoatlas

Data on Alaska Ocean Observing System Arctic Portal (coming soon)

Ben Sullender bsullender@audubon.org





