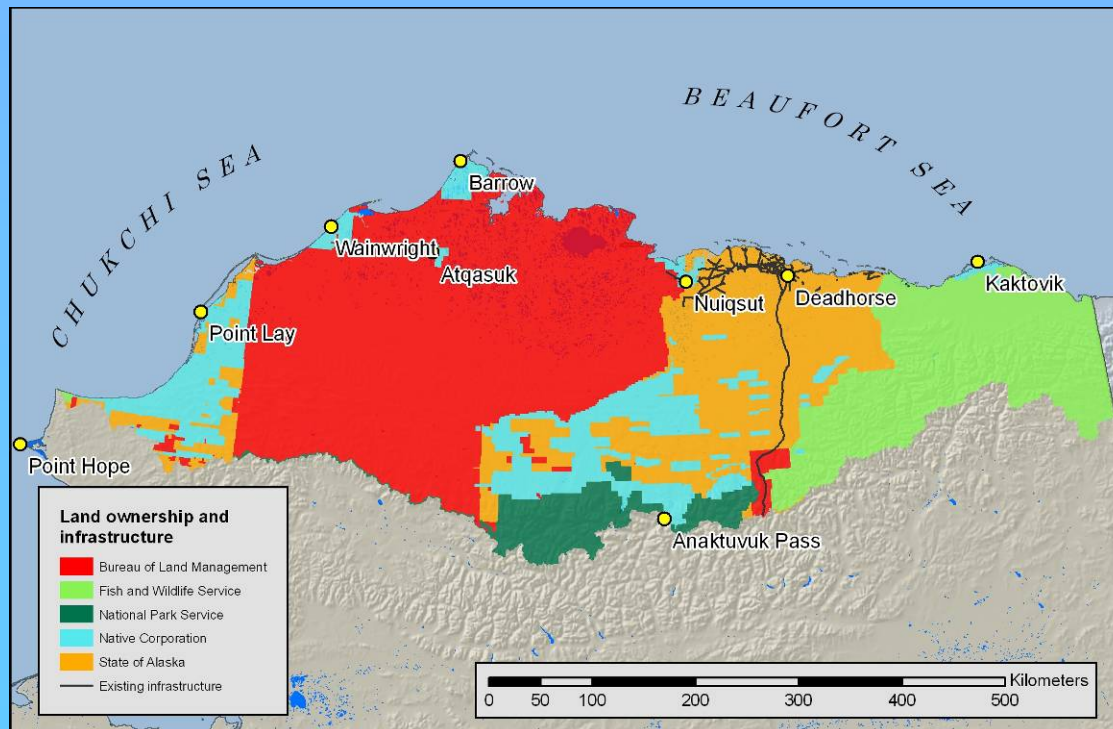


Why Breakout?

Breakout session results will form the core content for a 5-year strategic plan that identifies the priority research, modeling, and synthesis activities needed to predict climate-related impacts to fish and wildlife populations in the Arctic

Sideboards/Scope

- **Terrestrial and Freshwater Systems of the North Slope**
 - **Coastal Processes - Will affect some spp**



Focal Issues

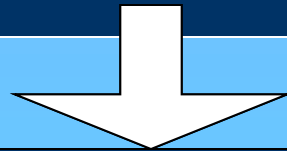
- **Change in relative abundance and distribution of habitat types**
- **Change in structural or physical characteristics of habitat**
- **Change in trophic systems, phenology, and forage/prey availability**

Breakout Session I

Climate Scenarios

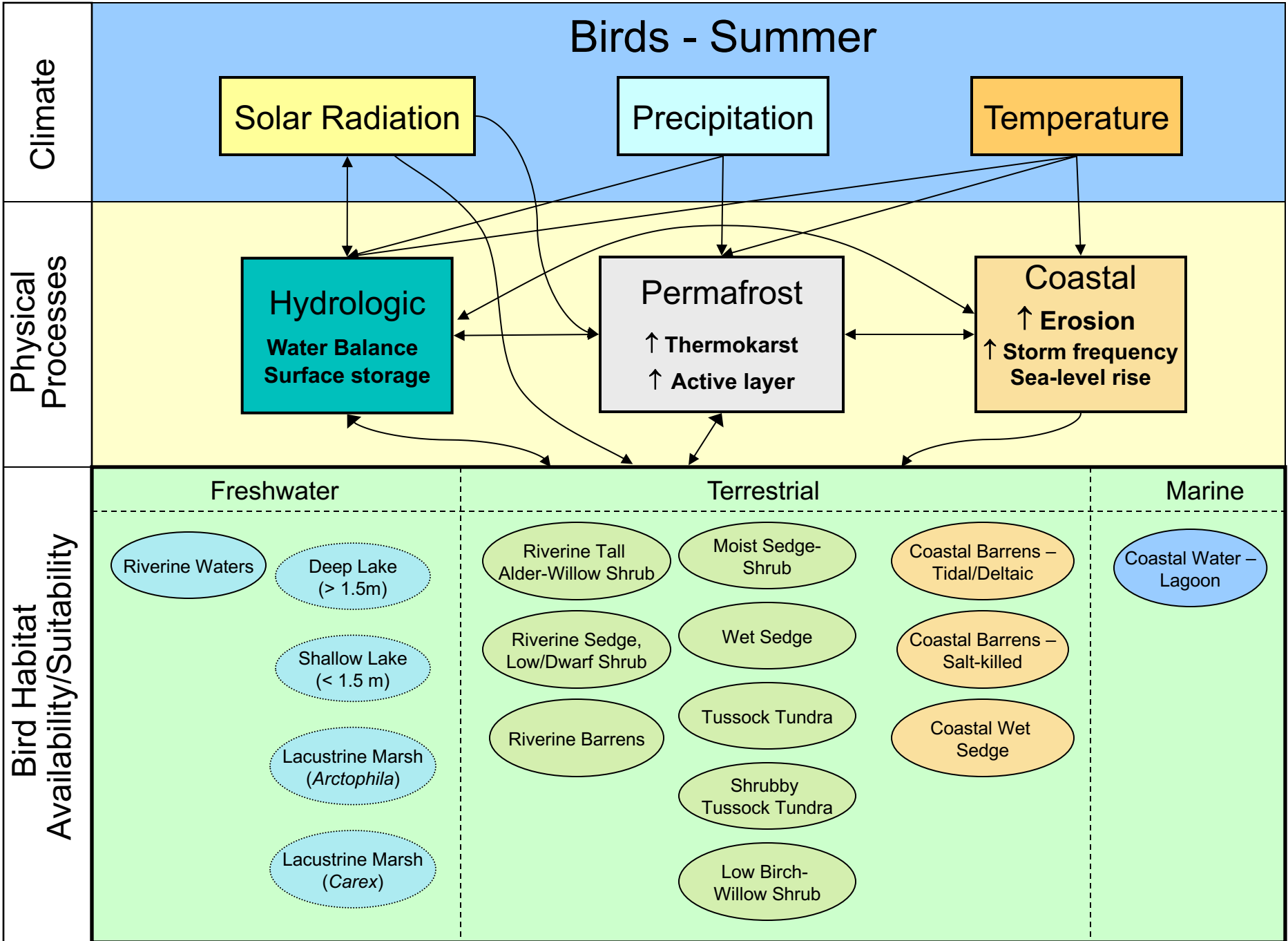
**Hydrologic
Processes**

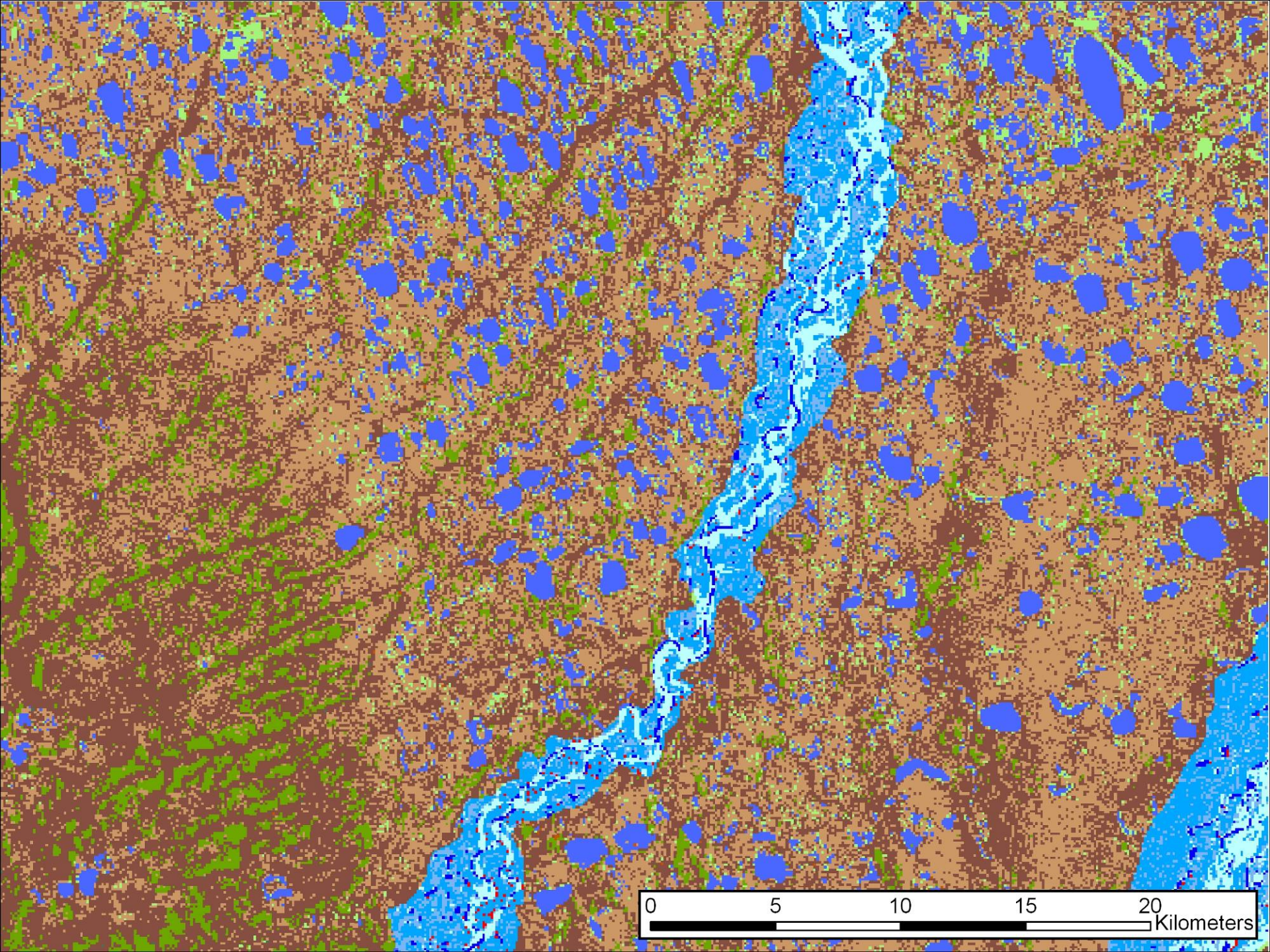
**Ecosystem
Change
Pathways**



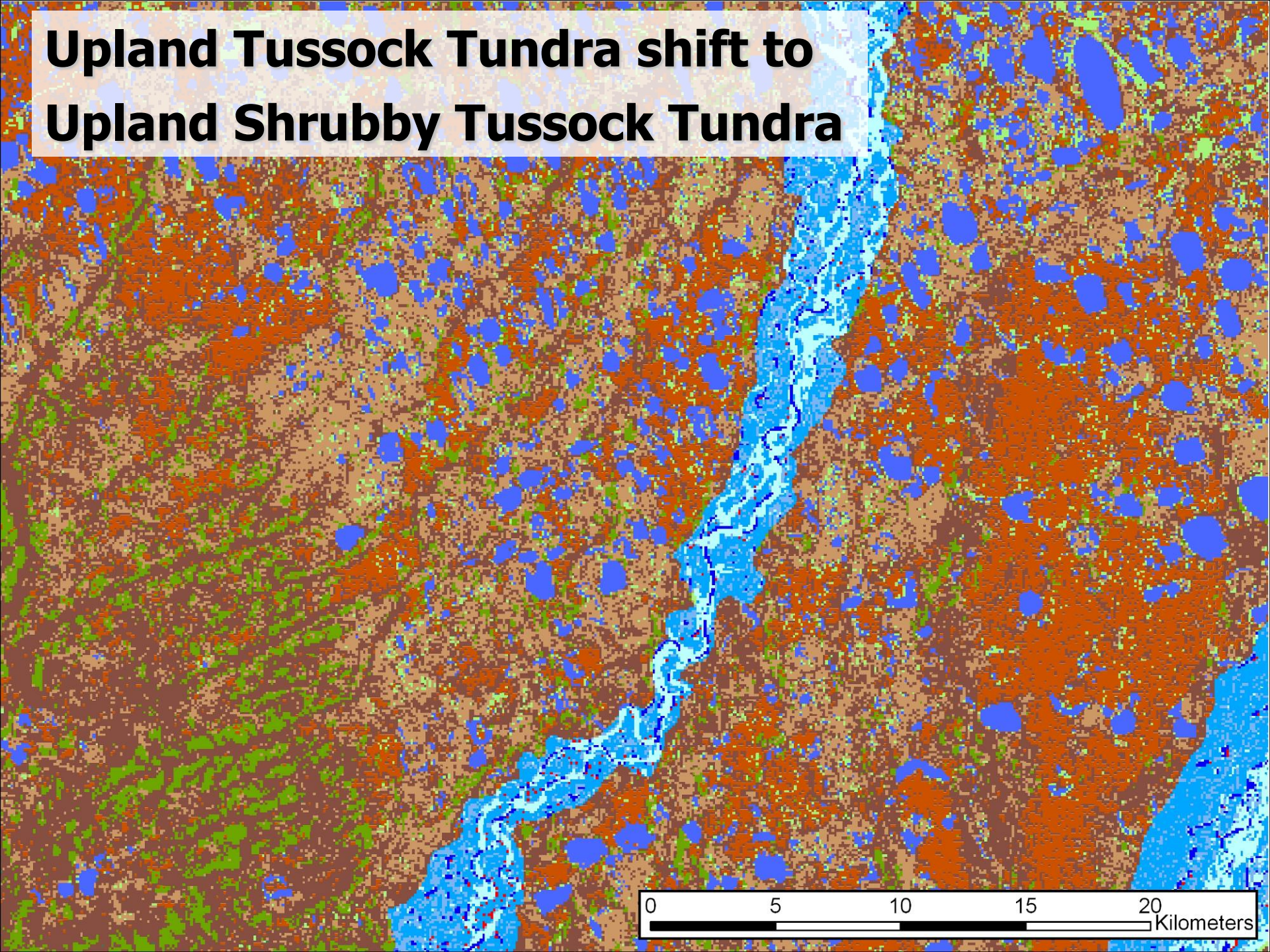
What species/parameters are sensitive indicators of hypothesized changes in habitat availability?

Birds - Summer





Upland Tussock Tundra shift to Upland Shrubby Tussock Tundra



0 5 10 15 20 Kilometers

Worksheet for Breakout Session I

Species or Species Group	Projected Change in Habitat Availability	Parameter (e.g., growth rate, distribution, abundance, etc.)	Positive or Negative Effect	Rationale for Strong Predicted Effect
Red Phalarope and Pectoral Sandpiper	Less lowland wet sedge due to drier summer condition	Distribution, breeding density, breeding success	Negative	Breeding habitat association with wet sedge. Loss of habitat would limit distribution & abundance; lower invertebrate productivity could reduce breeding success.

Managers' Breakout Session

- **Discuss collaboration among research and resource agencies**
- **Develop collaborative process**