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
What species/parameters are sensitive indicators of hypothesized changes in habitat availability?
Upland Tussock Tundra shift to Upland Shrubby Tussock Tundra
<table>
<thead>
<tr>
<th>Species or Species Group</th>
<th>Projected Change in Habitat Availability</th>
<th>Parameter (e.g., growth rate, distribution, abundance, etc.)</th>
<th>Positive or Negative Effect</th>
<th>Rationale for Strong Predicted Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Phalarope and Pectoral Sandpiper</td>
<td>Less lowland wet sedge due to drier summer condition</td>
<td>Distribution, breeding density, breeding success</td>
<td>Negative</td>
<td>Breeding habitat association with wet sedge. Loss of habitat would limit distribution &amp; abundance; lower invertebrate productivity could reduce breeding success.</td>
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</tbody>
</table>
Managers’ Breakout Session

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