Current Pattern and Potential Changes in Fisheries
Presentation to the Arctic MPA Workgroup – October 2015

David Witherell
North Pacific Fishery Management Council

Chris Siddon
Alaska Department of Fish and Game
## Who Manages What Fisheries off Alaska?

<table>
<thead>
<tr>
<th></th>
<th>North Pacific Fishery Management Council</th>
<th>National Marine Fisheries Service</th>
<th>Alaska Board of Fisheries/Alaska Dept. Fish &amp; Game</th>
<th>International Pacific Halibut Commission</th>
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</thead>
<tbody>
<tr>
<td><strong>Groundfish</strong> (pollock, cod, flatfish, etc.)</td>
<td>Allocation &amp; conservation</td>
<td>Implements Federal regulations</td>
<td>Some state fisheries (0-3)</td>
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<tr>
<td><strong>Crabs</strong> (king, snow, Tanner crabs)</td>
<td>Bering Sea fisheries – joint management</td>
<td>Bering Sea fisheries - regulations</td>
<td>State &amp; Jointly managed fisheries</td>
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<td><strong>Scallops</strong></td>
<td>License limits</td>
<td>License regulations</td>
<td>Fishery mgmt.</td>
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<tr>
<td><strong>Halibut</strong></td>
<td>Allocation</td>
<td>Allocation regulations</td>
<td>Conservation</td>
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<td><strong>Herring</strong></td>
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<td>Fishery mgmt.</td>
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<tr>
<td><strong>Salmon</strong></td>
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<td><strong>Others</strong> (shrimp, urchins, etc.)</td>
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<td>Fishery mgmt.</td>
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</tbody>
</table>
Effort Distribution: Bering Sea Groundfish Fisheries

Bottom Trawl

Pot Gear

Pelagic Trawl

Longline Gear
Predicted Future Changes

- An earlier ice retreat may increase trawl fishing intensity northward, as limited by closure areas and fish distribution.
- Reduced ice cover and associated primary productivity is also expected to negatively impact pollock abundance.
Predicted Future Changes

- Distributions of all species likely to shift
  - (all 5 salmon spp. documented around Mackenzie R.)
- Timing of spawning likely to change
  - (eg., BB sockeye run timing)
- Reduced settlement and recruitment success
  - (eg., BB RKC)

“Bristol Bay sockeye make unusual late rally”
By: DJ Summers, Alaska Journal of Commerce
“The historical midpoint of July 4 came and went with only 8.87 million fish harvested, less that half of what was caught by this time last year, and 35 percent less than the five-year average.”