

Update: Harvest Strategy Golden King Crab (*Lithodes aequispinus*)

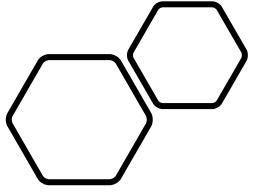


Andrew Olson
andrew.olson@alaska.gov

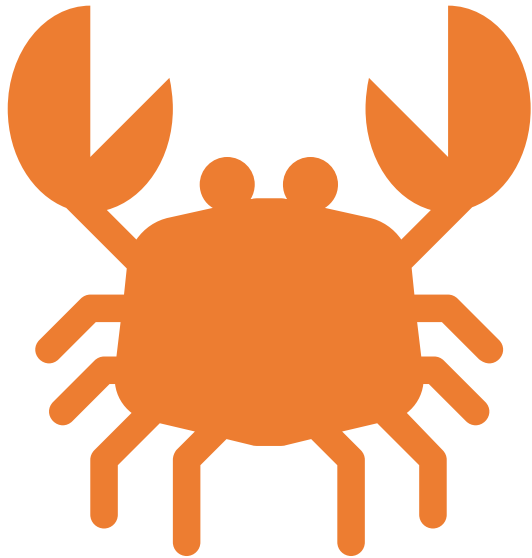
& Katie Palof

King and Tanner Task Force Meeting
December 3rd, 2021





Outline



**GKC Harvest
Strategy**
Overview



Strategy Updates

Southeast GKC Harvest Strategy Overview



- **Objectives**

- Improve and stabilize fishery performance
- Transparent and repeatable metrics
- Consistent with BOF Policy on King and Tanner Crab Resource Management [5 AAC 34.080] and SEAK GKC management plan [5 AAC 34.114].

- **Performance Indicators**

- Primary (logbook CPUE, proportion of GKC catch during Tanner fishery)
- Secondary (length & recruit compositions, local ecological knowledge (LEK) aka fishermen experience)

- **Reference Points (avg. logbook CPUE)**

- **Target**-where we want the stock to be
- **Trigger**- prompts management action and intervention
- **Limit**- stock danger zone due to poor fishery performance

- **Decision Rules**

- Inseason- tracking performance inseason and determines if any management action is needed
- Postseason- GHL determinations and area closures if warranted

Postseason Decision Rules



- **No Change**

- If < 500 pot lifts have occurred in a given management area no change in GHL the following season due to limited information.
- Same metric prior to inseason management decisions
- Added to due to no effort in Lower Chatham and < 500 pots in Mid-Chatham

Postseason Decision Rules



- **Re-Opening an Area**

- Utilize % approach
 - Re-open area at 5%-10% of upper end of GHR;
 - Area specific

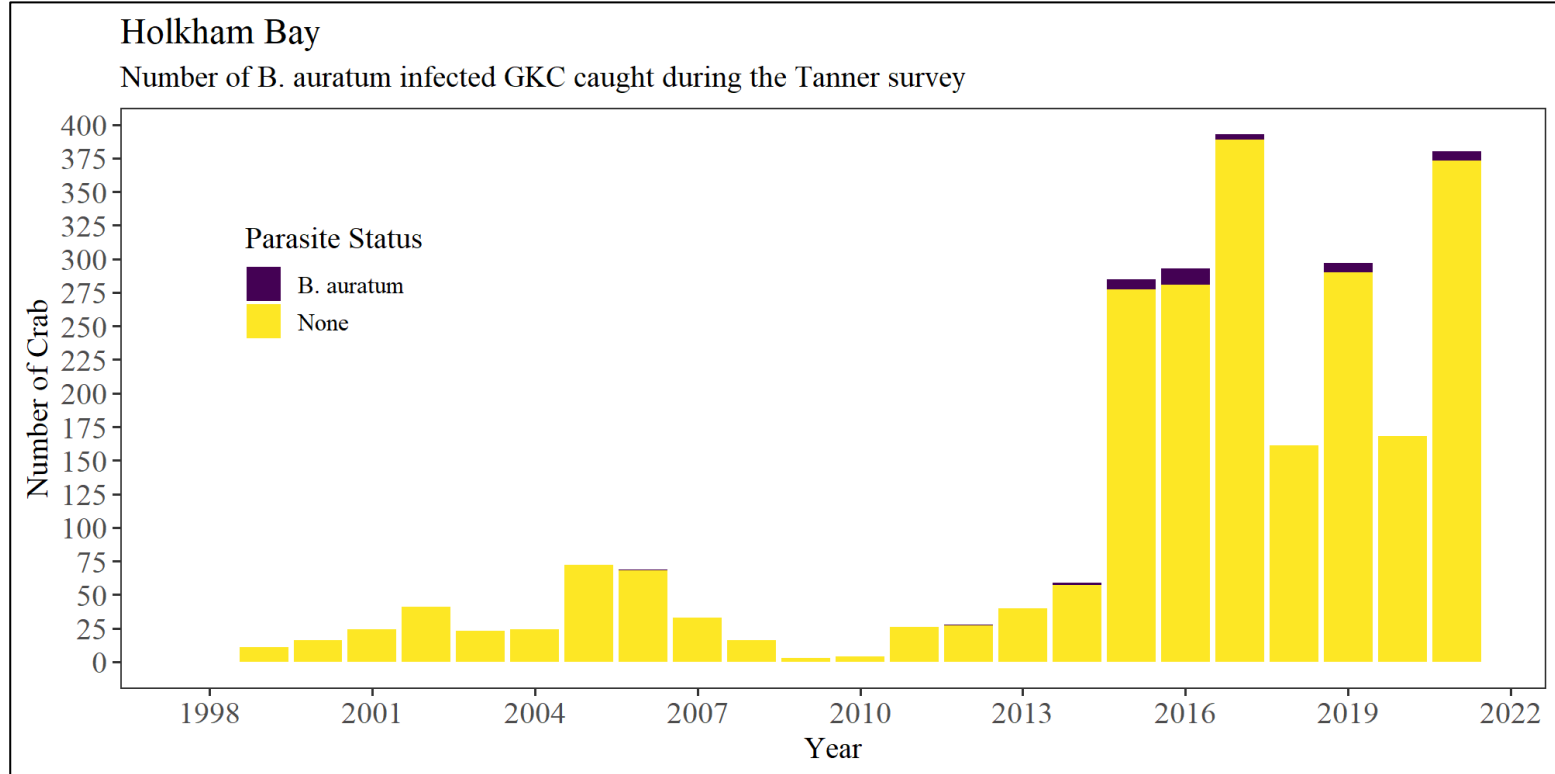
Area	GHR	5%-10% of upper end of GHR
Northern	0–145,000	7,250–14,500
Icy Strait	0–55,000	2,750–5,500
North Stephens Passage	0–25,000	1,250–2,500
East Central	0–225,000	11,250–22,500
Mid-Chatham	0–150,000	7,500–15,000
Lower Chatham	0–50,000	2,500–5,000
Southern	0–25,000	1,250–2,500

B. auratum infection



- **Tanner survey in Holkham Bay**

- Parasite that infects king crab
- Small number of infections in recent years

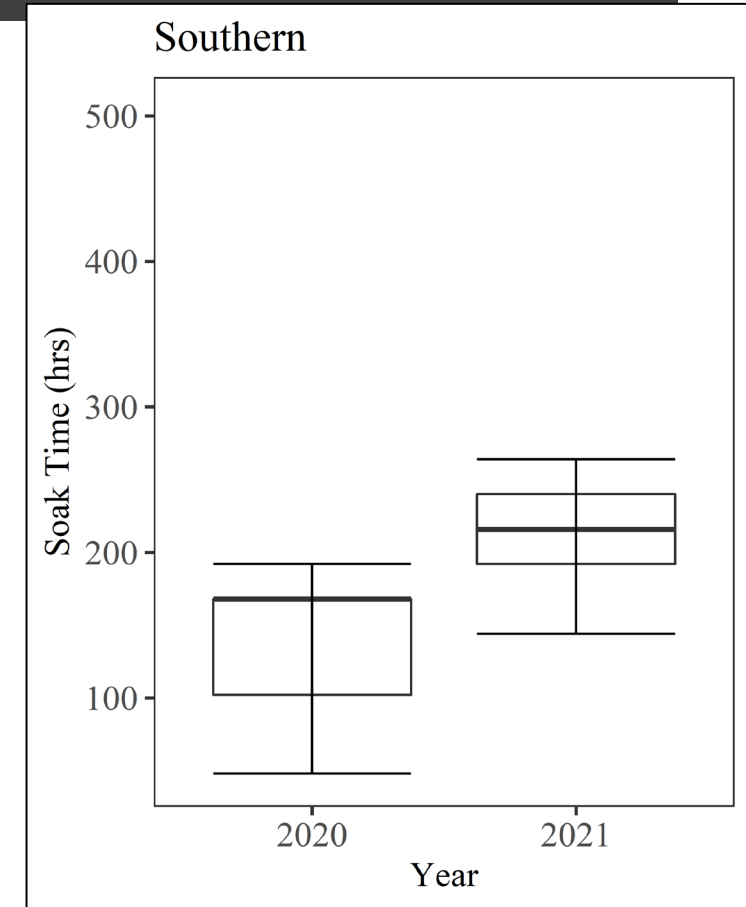
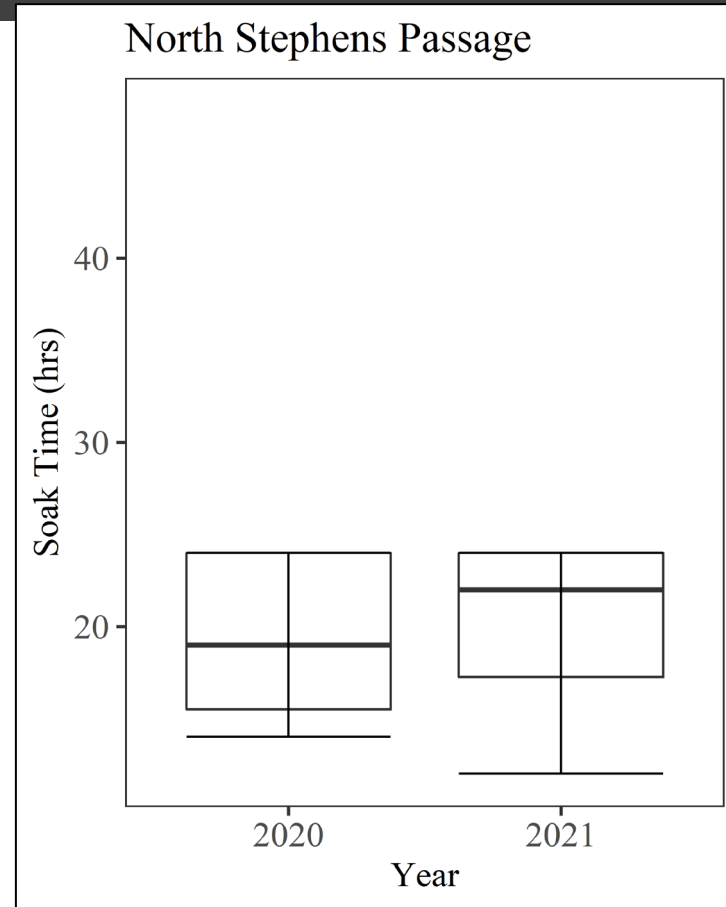


Logbook Soak Time



- **2020–present**

- Allow future standardization of CPUE
- Varies across areas





Questions?