

# Commercial Herring Fisheries in Southeast Alaska

2025 Report to the Alaska Board of Fisheries

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by

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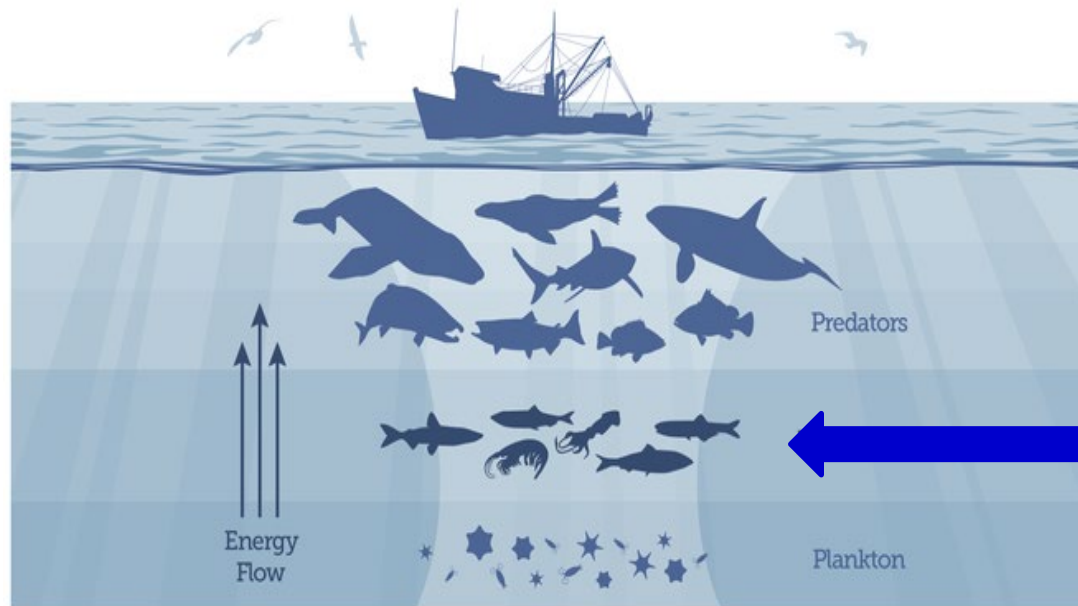
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# Topics

- Ecosystem considerations for herring
- Orientation of stocks and fisheries
- Management plan overview; Harvest rates; Closed waters
- 20 herring proposals – presentation will focus on pertinent issues
  - Sitka Sound:
    - Harvest rate strategy (Proposals 171-177)
    - Closed waters (178-79)
    - Sitka Sound Management Plan (180-182)
  - Spawn on Kelp:
    - Add Sitka Sound to Northern SOK area for open pounds (183)
    - Expand Craig SOK seining area (184-186)
    - Allow protective mesh around SOK pound (187)
  - All commercial herring fisheries:
    - Limit duration, reporting requirements, catch cap (188)
    - Reduce purse seine length (189)
    - Require fishery co-management with tribal governments (190)

# Ecosystem Considerations

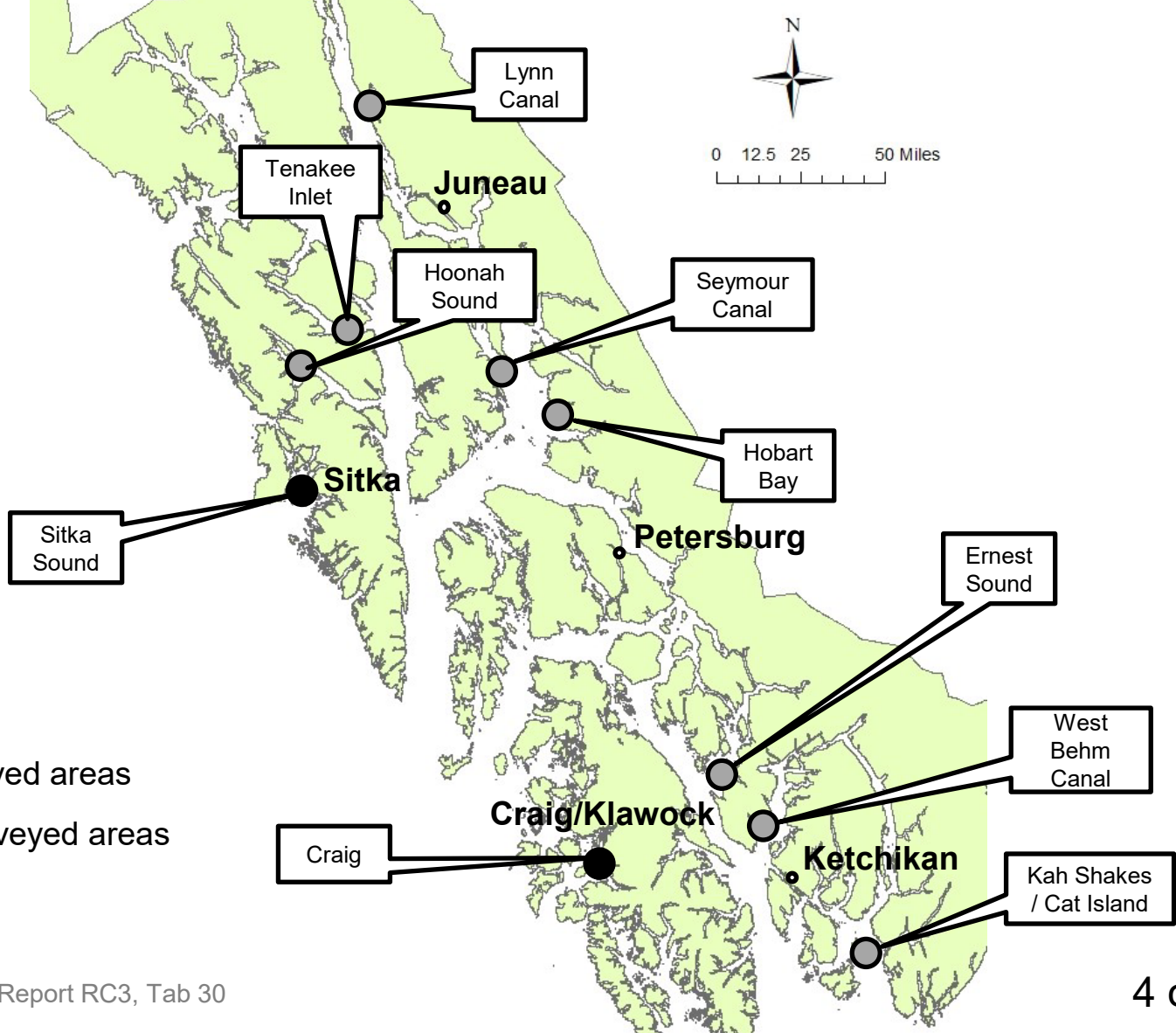
- Herring play an important role in ecosystem, linking lower and higher trophic levels



Herring  
and other  
mid-trophic  
prey species

- Important prey for many marine mammals, fish, birds

# Locations of Spawning Areas



- = actively surveyed areas
- = historically surveyed areas

# Southeast Herring Fisheries and Gear Types

- Subsistence spawn on branches and kelp
  - Traditional and culturally important harvest of eggs
  - Harvested in spring by placing hemlock branches in spawn areas or collecting eggs on kelp

- Commercial Sac-roe

- Purse seine or gillnet
- Spring fisheries just prior to spawning
- Largest fishery for landings and usually for overall value



- Commercial Spawn on kelp

- Closed or open ponds;
- Herring captured with purse seine
- Spring fisheries



- Commercial Bait/food

- Purse seine
- Fall/Winter fisheries
- Smallest fishery for landings and overall value

# Southeast Herring Management Plan (5 AAC 27.190)

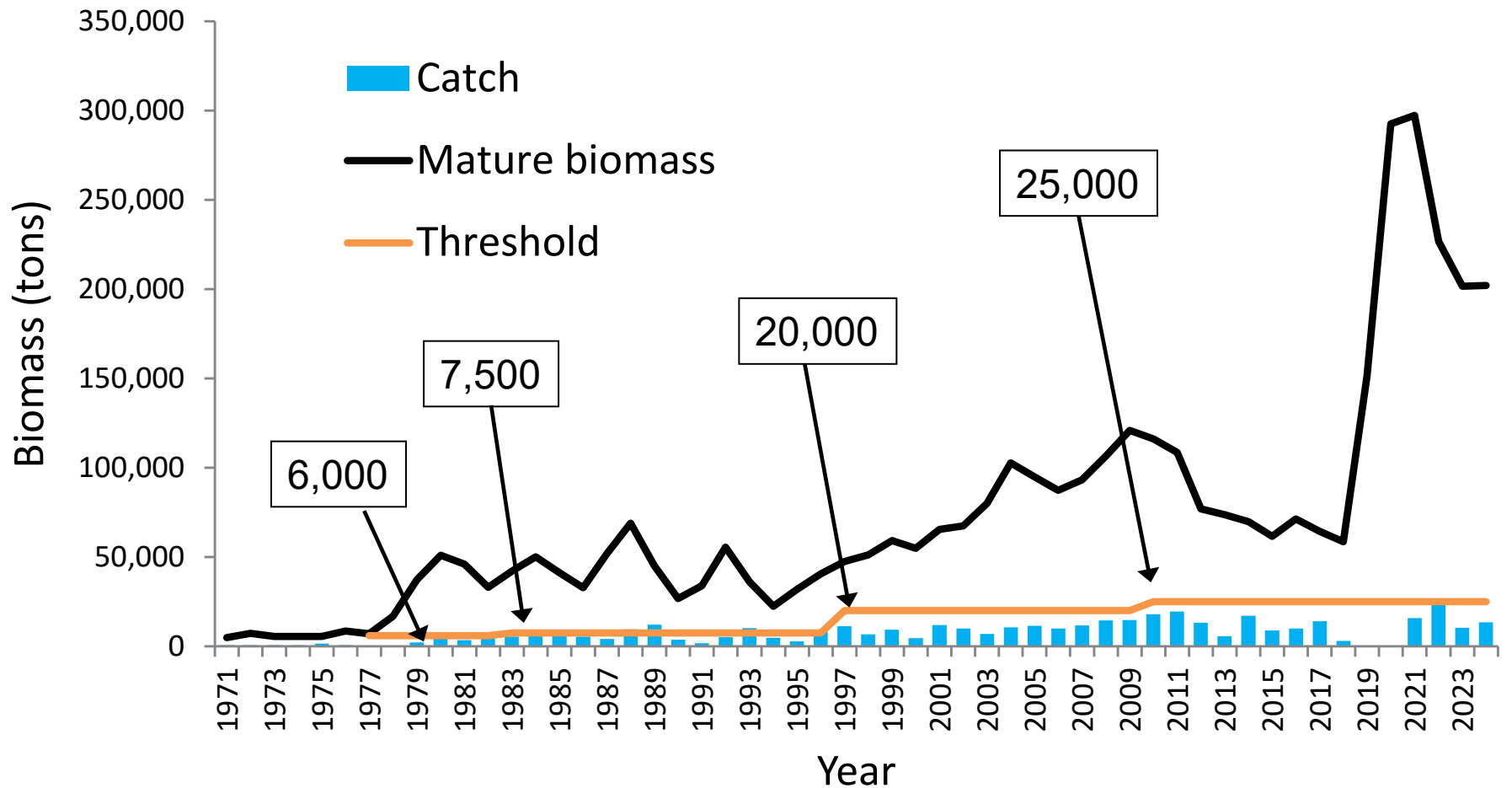
For management of herring, the department :

- 1) Shall identify stocks on a spawning area basis;
- 2) Shall establish minimum spawning biomass thresholds;
- 3) Shall assess abundance of mature herring before fishing;
- 4) May set exploitation rate between 10% and 20%;
- 5) May consider sources of mortality;
- 6) May modify fishing periods to minimize incidental mortalities.

# Thresholds

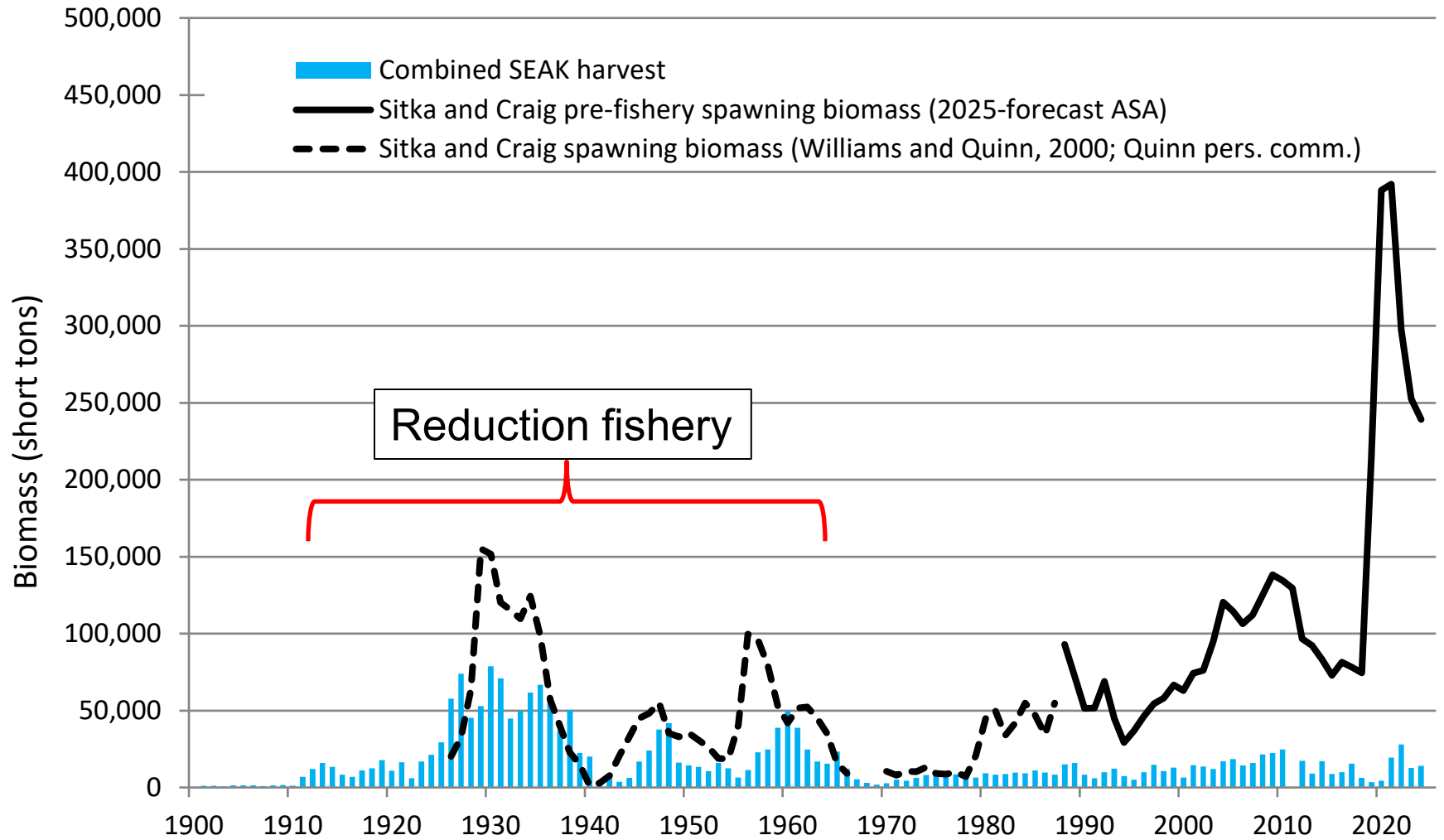
- Goals
  - Use with corresponding appropriate harvest rate
  - Allow stock to rebound more quickly when at low levels
  - Provide spawning base for reproduction / future recruitment
- Established based on one of two approaches:
  - Percent of unfished biomass, a commonly used approach
  - Set based on estimates of historical abundance and data quality
- More recent research suggests thresholds above 25% of unfished biomass may be necessary for species that rely on herring, and to allow low productivity stocks to recover.

# Sitka Sound Biomass, Catch and Threshold





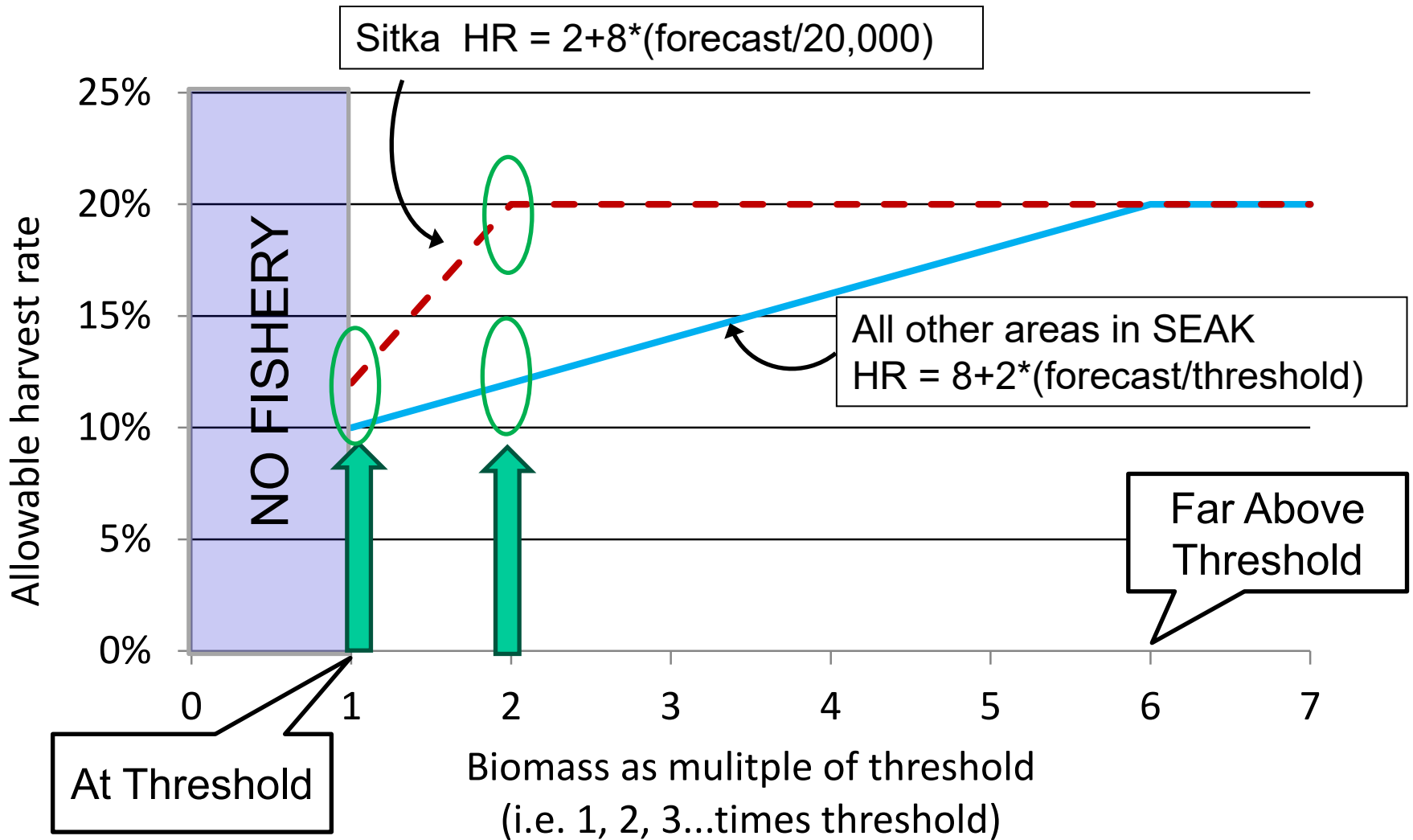
# Historical Biomass and Catch



# Harvest Rates

- Goals: sustainability; optimize yield; minimize closures.
- Established based on analysis of other Alaskan herring stocks; 20% maximum of the mature biomass.
- Southeast uses sliding scale as an additional measure of protection.
- Convention has been 20% harvest rate and threshold of 25% Unfished Biomass; however recent analysis suggests lower harvest rate and higher threshold more appropriate.

# Current Sliding Scale Harvest Rate



# Questions?

Stock status information at:  
Board of Fisheries meeting webpage – Additional Reports  
Southeast Alaska and Yakutat 2024 Herring Stock Assessment Surveys