

# SHELLFISH STAFF PRESENTATIONS

## ALASKA BOARD OF FISHERIES

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SOUTHEAST ALASKA AND YAKUTAT AREAS

SHRIMP POT, SHRIMP TRAWL

January 15–21, 2012

Petersburg, Alaska

1. Southeast Alaska and Yakutat  
Commercial Shrimp Pot Fisheries
2. Southeast Alaska and Yakutat  
Commercial Shrimp Trawl Fisheries



Reports by Quinn Smith

Alaska Department of Fish and Game, Southeast Region



# Shrimp BOF Proposals

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- **Commercial Pot Fishery**

- **Committee of the whole**

- Proposal 168: Low production subdistrict fishing extensions - **OPPOSE**
- Proposal 169: Subdivide districts & GHGs - **OPPOSE**

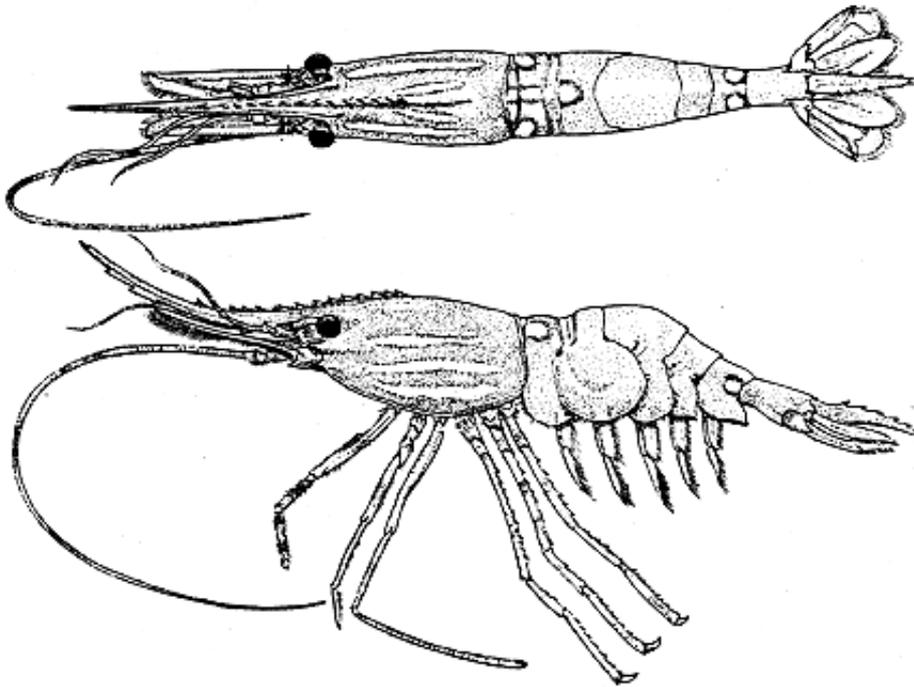
- **Committee B**

- Proposals 170, 171: Institute inseason management - **OPPOSE**
- Proposal 172: Localized seasonal closure - **NEUTRAL**
- Proposal 173: Change season start date - **NEUTRAL**
- Proposal 174: Extend daily fishing hours - **OPPOSE**
- Proposal 175: Modify pot marking requirements - **OPPOSE / NEUTRAL**
- Proposal 176: Prohibit dual registration, Dungeness and Beam trawl - **SUPPORT**
- Proposal 177: Establish beam trawl task force - **NEUTRAL**

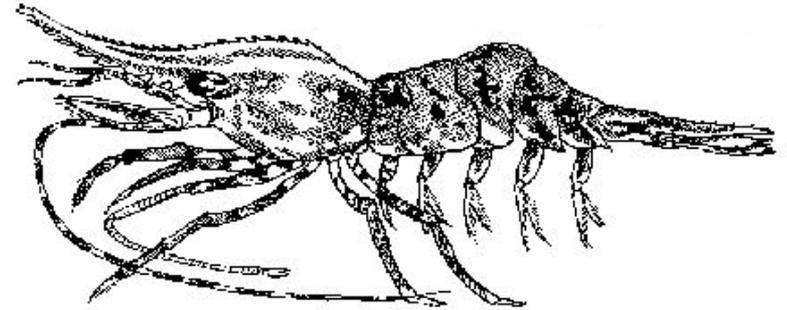


# Shrimp Pot Fisheries

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Spot Shrimp (*Pandalus platyceros*)



Coonstripe Shrimp (*Pandalus hypsinotus*)

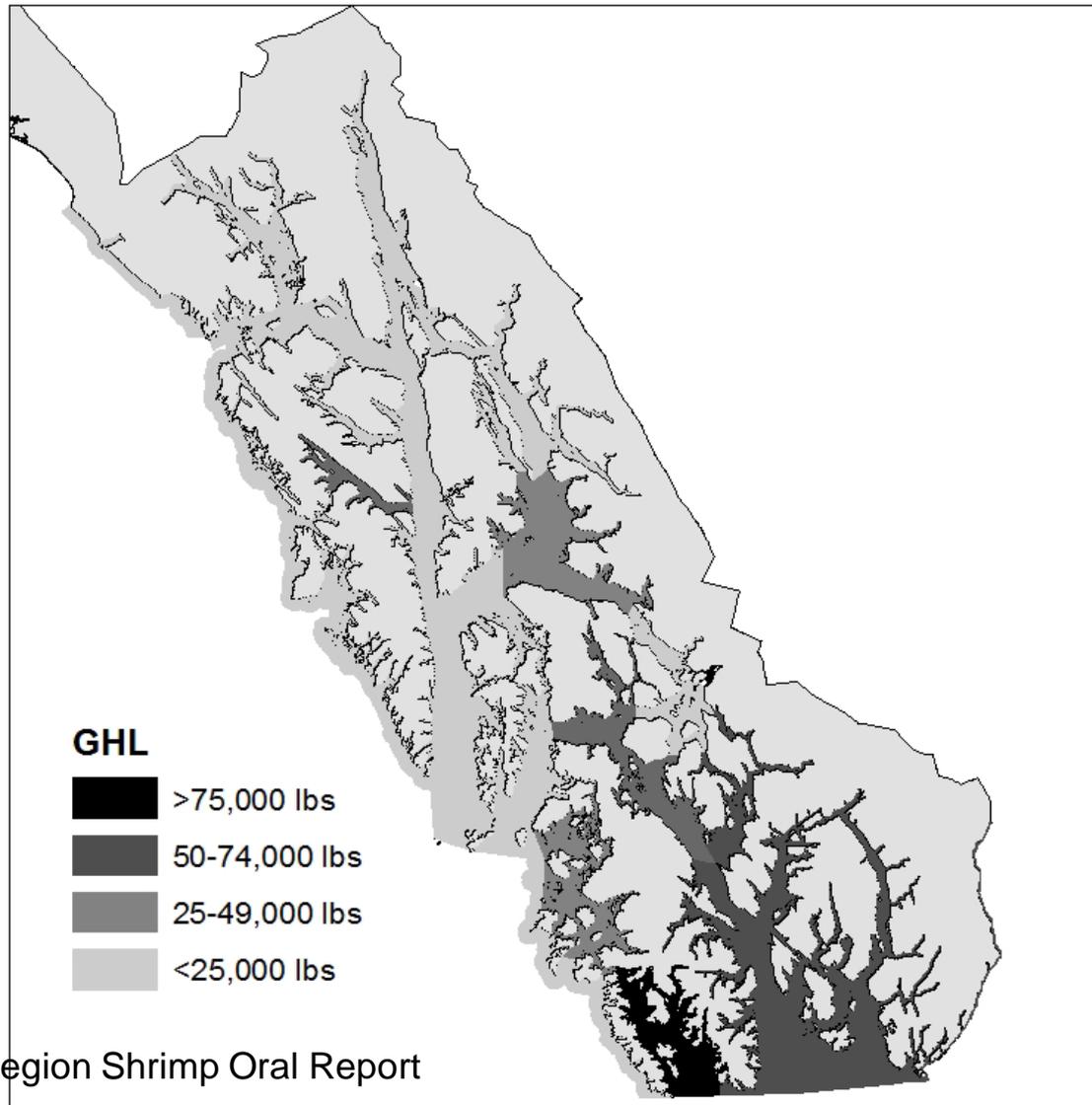


Drawing by Gue Pilon, as modified from Butler 1980

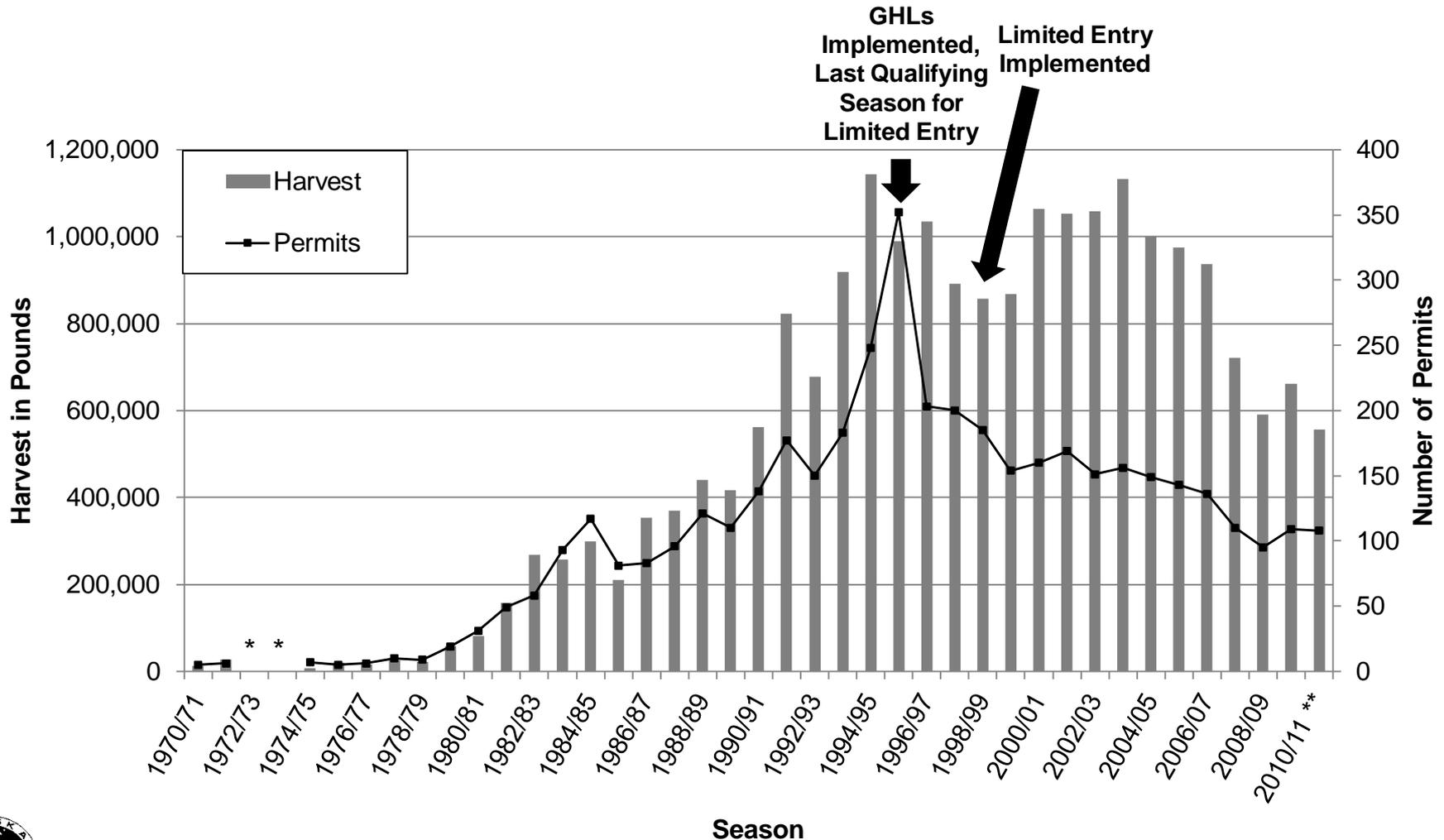
Southeast Region Shrimp Oral Report

3 of 16

# Distribution of Harvest in the Southeast Shrimp Pot Fishery



# Harvest and Effort in the Southeast Shrimp Pot Fishery



\* Fewer than 3 permits were fished; information is confidential.

\*\* 2010/11 data should be considered preliminary



# Fishery Regulations - SE Shrimp Pot

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- **Limited entry implemented in 1998**
- **Season**
  - Oct 1 - Feb 28 and by EO May 15 – July 31
- **Gear**
  - Daily fishing hours of 8:00 am to 4:00 pm
  - Minimum mesh of 1-3/4 inches
  - 100 large pots or
  - 140 small pots
  - Maximum vertical height of 24 inches
  - No more than 4 tunnels
- **Original Guideline Harvest Rates (GHRs) based on historic harvest**
- **Inseason reporting for catcher processors**



# Assessment Program – SE Shrimp Pot

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- **Index based**
  - No population estimation
- **Data sources**
  - **Fishery Independent:**
    - **Preseason Surveys**  
Districts 3, 7, 12, 13 (1 & 2 starting 2011)
  - **Fishery Dependant**
    - **On-the-grounds Sampling**
    - **Dockside Sampling**
    - **Voluntary logbook program**
    - **Fish Tickets**



# Management – SE Shrimp Pot

- **GHLs set on a District or Section level**
- **GHLs set based on biological data and fishery performance**
- **GHLs kept in place for minimum of 3 years to determine effect on stock (except in extreme cases)**

Area	GHL				
	2007/08	2008/09	2009/10	2010/11	2011/12
1	98,400	<b>78,700</b>	<b>50,000</b>	50,000	50,000
2	86,000	86,000	<b>65,000</b>	65,000	65,000
3-A	198,000	<b>158,400</b>	158,400	<b>95,000</b>	95,000
3-B/C	<b>40,000</b>	40,000	40,000	<b>30,000</b>	30,000
4	20,000	20,000	20,000	20,000	20,000
5	20,000	20,000	20,000	20,000	20,000
6	82,000	<b>68,000</b>	68,000	68,000	<b>24,000</b>
7	78,000	78,000	78,000	<b>54,600</b>	54,600
8	20,000	20,000	20,000	<b>15,000</b>	15,000
9	18,000	18,000	18,000	18,000	<b>14,000</b>
10	48,000	48,000	48,000	48,000	48,000
11	20,000	20,000	20,000	20,000	20,000
12-Ten.	28,000	<b>17,000</b>	17,000	<b>10,000</b>	Closed
12-Rem.	15,000	<b>10,000</b>	10,000	10,000	10,000
13-A/B	15,000	15,000	15,000	15,000	15,000
13-C	<b>34,000</b>	<b>30,000</b>	30,000	30,000	30,000
14	15,000	<b>10,000</b>	<b>Closed</b>	Closed	Closed
15	Closed	Closed	<b>15,000</b>	15,000	15,000
16	Closed	<b>15,000</b>	<b>Closed</b>	<b>15,000</b>	<b>Closed</b>
<b>TOTAL</b>	<b>835,400</b>	<b>752,100</b>	<b>692,400</b>	<b>598,600</b>	<b>535,600</b>



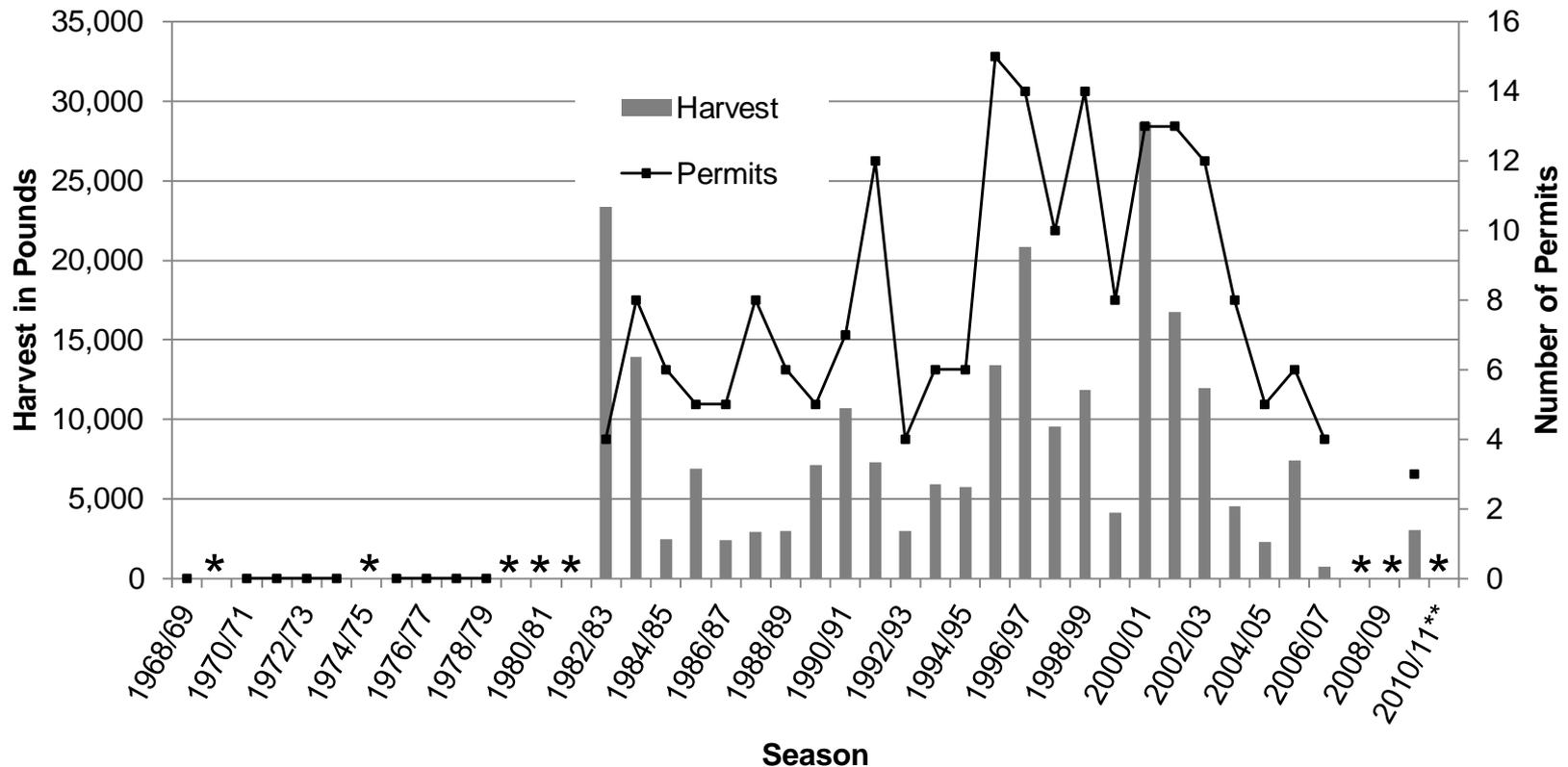
# Management and Conservation Concerns

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- **Declining harvests and biological evaluations**
  - many shrimp populations in the region have begun to decline from recently more robust populations
- **Loss of size specific logbook data**
  - Lost as whole frozen market declined
- **Limited spatial extent of fishery independent survey**
  - Currently covers districts composing 35% of available GHL,
  - Once data from 2011 survey expansion becomes a valid index (after 2014 surveys) 57% of GHL will be surveyed
- **Lack of monitoring of personal use harvest**
- **Lack of funding to implement new management measures**
- **Lack of area specific basic biological information**
  - Lifespan
  - Multiple spawning potential
  - Spawn success rate



# Harvest and Effort in the Yakutat Shrimp Pot Fishery



\* Fewer than 3 permits were fished; information is confidential.

\*\* 2010/11 data should be considered preliminary



# Yakutat Shrimp Pot Fishery Regulations

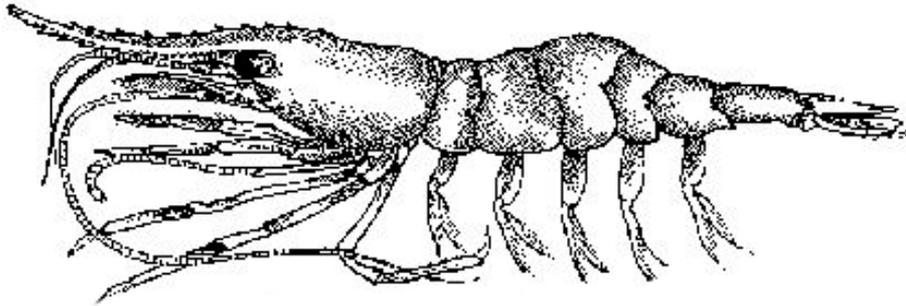
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- **Open access**
- **Season**
  - Yakutat Bay: May 1 through February 28
  - Doggie Island: October 1 through February 28,
  - Other waters of Registration Area D: Year-round
- **Gear**
  - Minimum mesh of 1-1/2 inches
  - Maximum of 30 pots in Yakutat Bay
  - No pot limits elsewhere
  - No pot size requirements
- **Monthly GHRs**
  - Yakutat Bay: 1,000 pounds
  - Doggie Island: 2,000 pounds

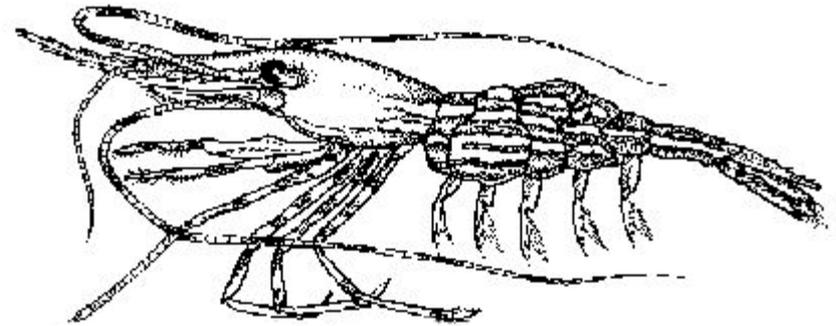


# Shrimp Trawl Fishery Presentation

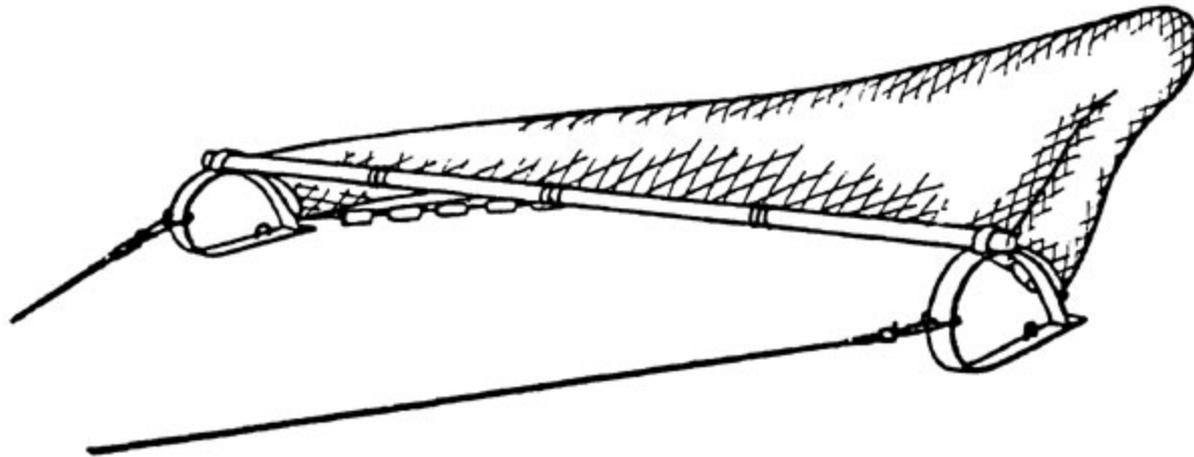
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Northern Pink Shrimp (*Pandalus jordani*)



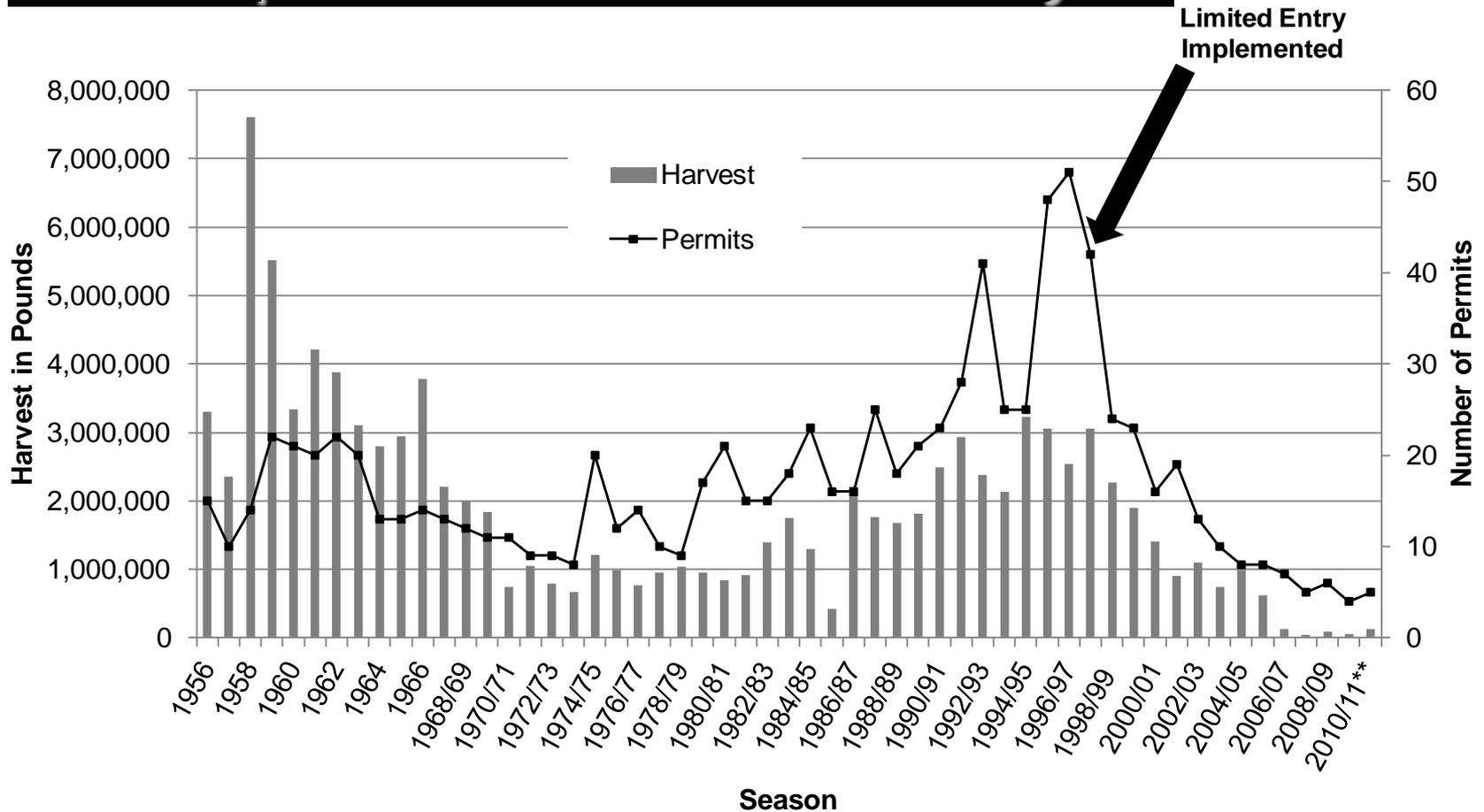
Sidestripe Shrimp (*Pandalopsis dispar*)



All Drawings by Gue Pilon, as modified from Butler 1980



# Harvest and Effort in the Southeast Shrimp Beam Trawl Fishery



\*\* 2010/11 data should be considered preliminary



# SE Shrimp Beam Trawl Regulations

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- **Limited entry in 1997**
- **GHRs**
  - **Traditional areas**
    - Based on historic harvests by fishing area
    - Same GHR for each fishing period by fishing area
  - **Nontraditional areas**
    - Generally up to 100,000 pounds
- **Bycatch limits for spot and coonstripe shrimp**
- **Mesh size restrictions**
  - Northern pink shrimp minimum, 1-3/8 inches
  - Sidestripe shrimp minimum, 1-7/8 inches
  - No maximum mesh size



# **Southeast Shrimp Trawl Mgmt.. and Conservation Concerns**

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- **Declining market and processing capacity**
- **Targeted harvest of larger sidestripe, coonstripe, and spot shrimp**
- **Capture & discard of small northern pink shrimp while targeting larger sidestripes**
- **No research program**
- **Management program limited**



# Harvest and Effort in the Yakutat Otter Trawl Fishery

