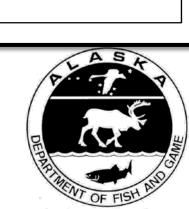
PRINCE WILLIAM SOUND (PWS) Shrimp Pot Fisheries



Mike Thalhauser Division of Sport Fish

Alaska Department of Fish and Game





Valdez

ALASKA

Whittier

Jaran &

Presentation Outline

- Biology and Life History
- How we come up with Guideline Harvest Levels
- Shrimp Pot Fisheries
 - Commercial
 - Noncommercial





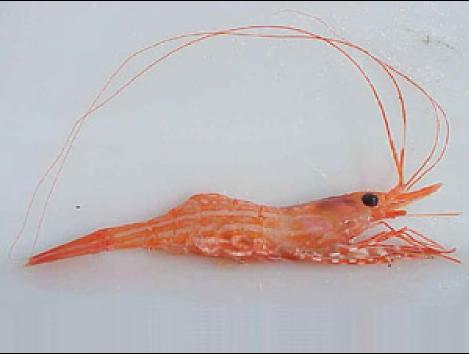
Five species of Pandalid Shrimp in PWS
Northern or Pink



Five species of Pandalid Shrimp in PWS
Humpy



Five species of Pandalid Shrimp in PWS
Sidestripe



Five species of Pandalid Shrimp in PWS
Coonstripe



Five species of Pandalid Shrimp in PWS
Spot



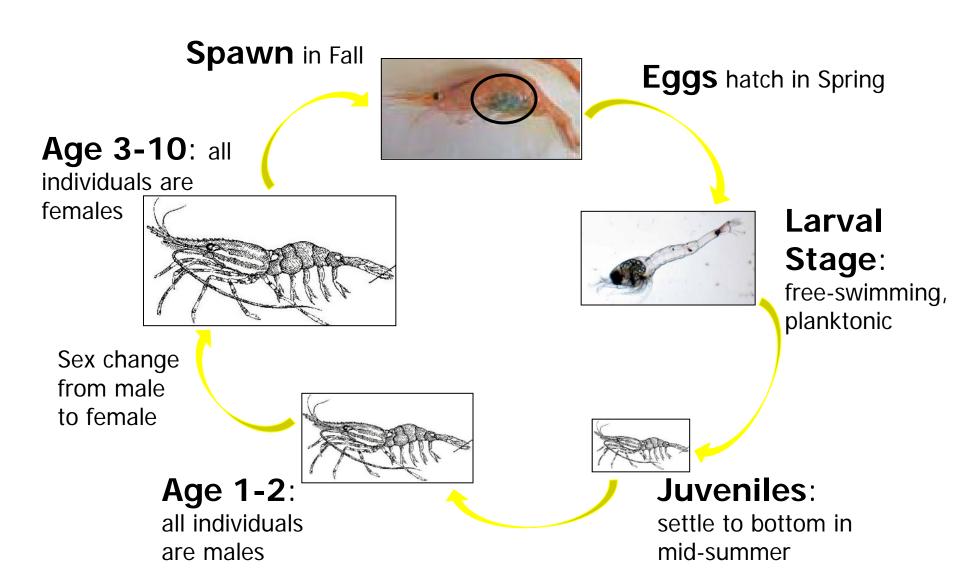
Don't Worry... There is no test..

-> They are all the same on the harvest report



Life Cycle of Pandalid Shrimp

Protandrous Hermaphrodites

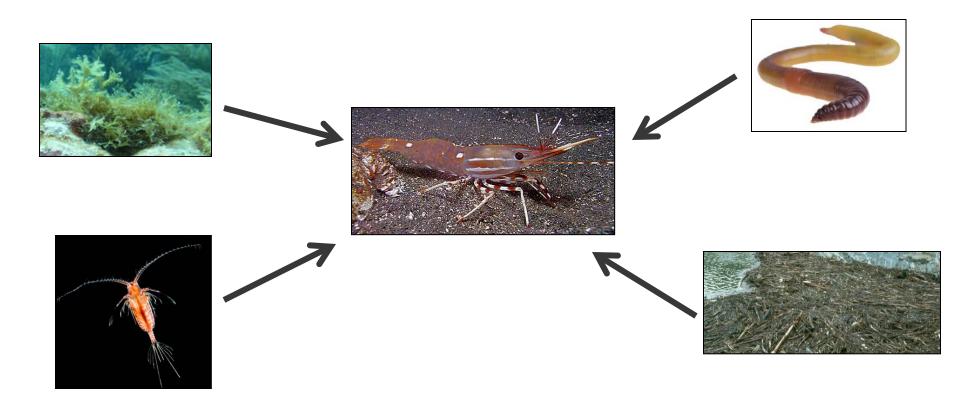


Ecology: Habitat by Species

- Northern, Humpy, and Sidestripe Shrimp
 - Deep, flat muddy terrain, 60 5000 ft
 - Range; throughout the polar regions; Bering Sea to Oregon
- Spot and Coonstripe shrimp
 - Shallow to moderate depths 20 2000 ft
 - Rocky terrain with steep drop offs
 - Moderate to strong currents
 - Ranges; AK. peninsula to Southern California

Ecology: What shrimp eat

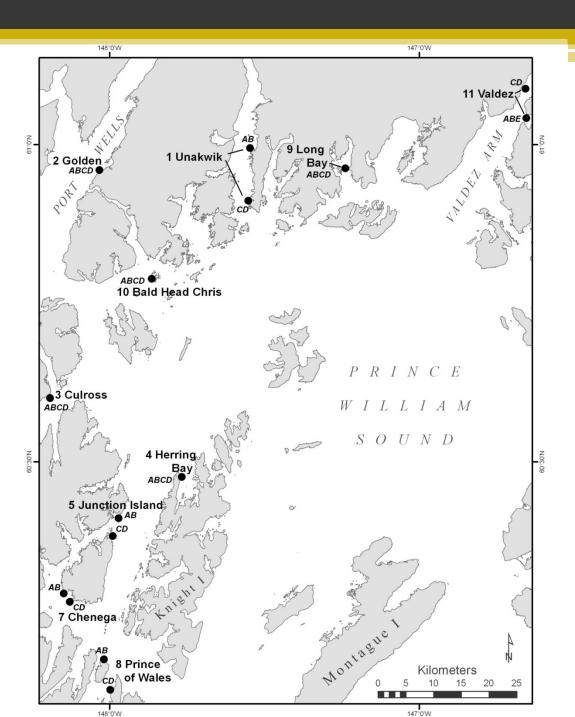
• **Opportunistic scavengers:** Use antennas to actively search for food: invertebrates, algae, detritus....



Guideline Harvest Level (GHL) Development

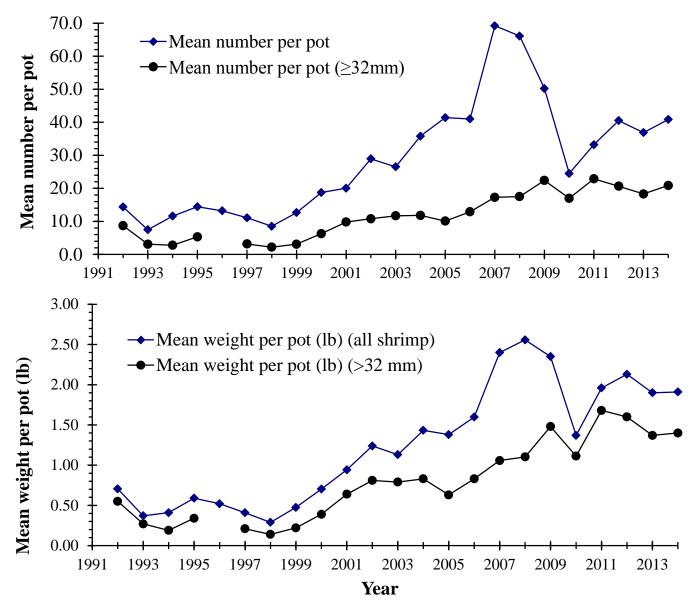
Surplus Production Model

- Relative survey abundance
- Survey CPUE
- Total catch weight
- Previous year's harvest from commercial and noncommercial fisheries
- Model provides total allowable harvest (TAH) and GHLs for commercial (40%) and noncommercial fisheries (60%)



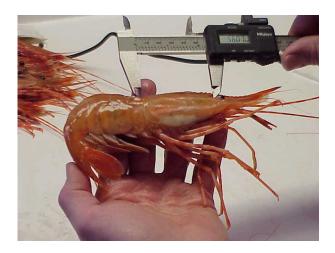
PWS ADF&G Spot Shrimp Survey Site Locations

PWS Spot Shrimp Survey Results



2015 Shrimp Pot Guideline Harvest Levels

- Total Allowable Harvest: 167,000 lb
- Commercial fishery: 67,000 lb
- Noncommercial fishery: 100,000 lb





PWS Commercial Shrimp Pot Fishery

PWS Commercial Shrimp Pot Fishery Management Components

- 1) Total allowable harvest must be at least 110,000 lb for a commercial fishery to open
- 2) Allocation is 40% of total allowable harvest
- 3) Season dates April 15 through September 15
- 4) Fishery-dependent gear limits (100 pot maximum)
 - Set at between 20 and 50 pots

PWS Commercial Shrimp Pot Fishery Current Management Components (continued)

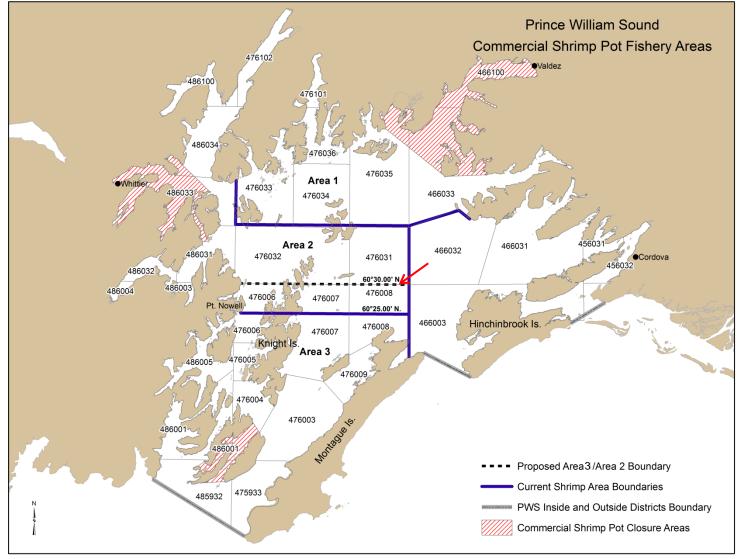
- 5) Limited hours of gear operation
- 6) Stringent reporting requirements
- 7) Fishery rotates among three areas



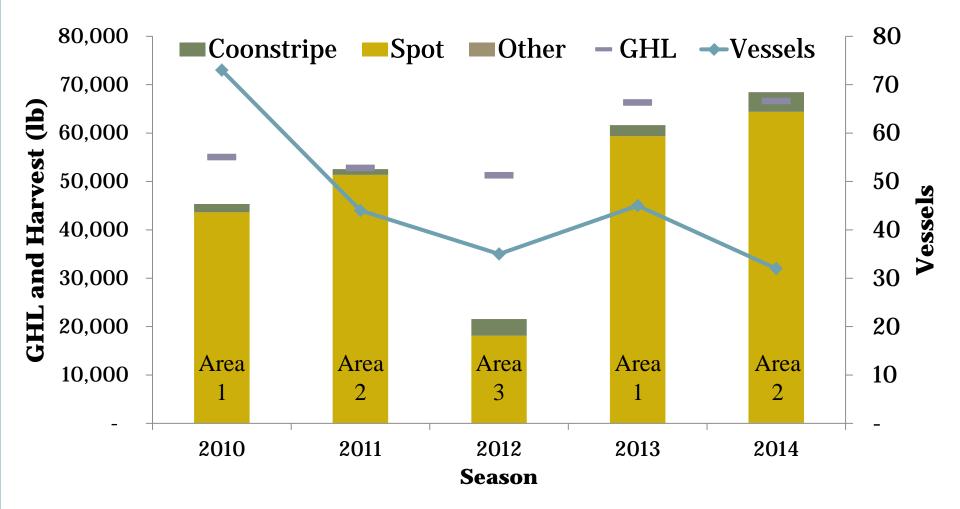
8) No more than 50% of GHL from any one statistical area (changed from 25% to 50% at the 2015 BOF meeting)

PWS Commercial Shrimp Pot Fishery

Area Boundaries and Statistical Areas



PWS Commercial Shrimp Pot Fishery Harvest and Effort

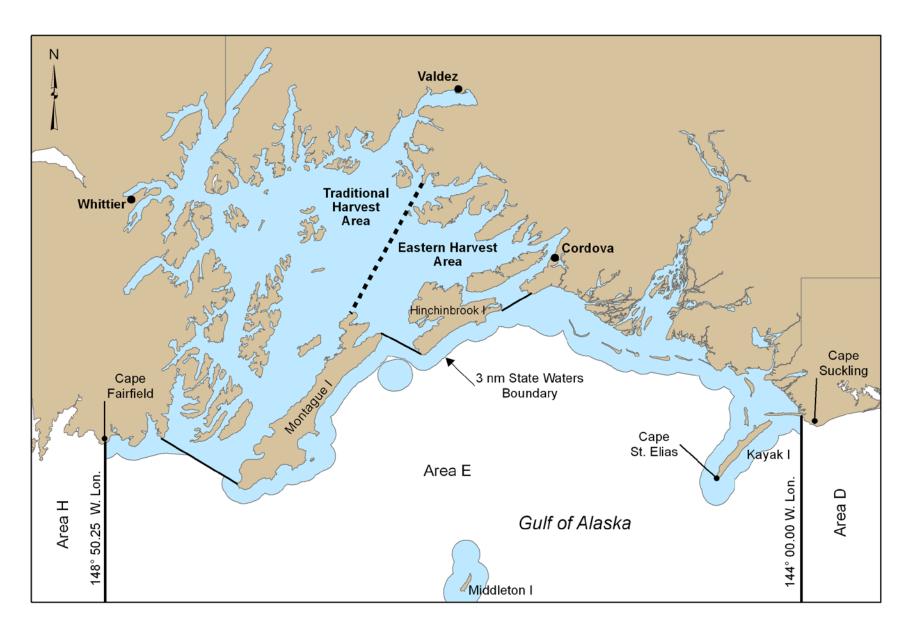


PWS Noncommercial Shrimp Pot Fishery

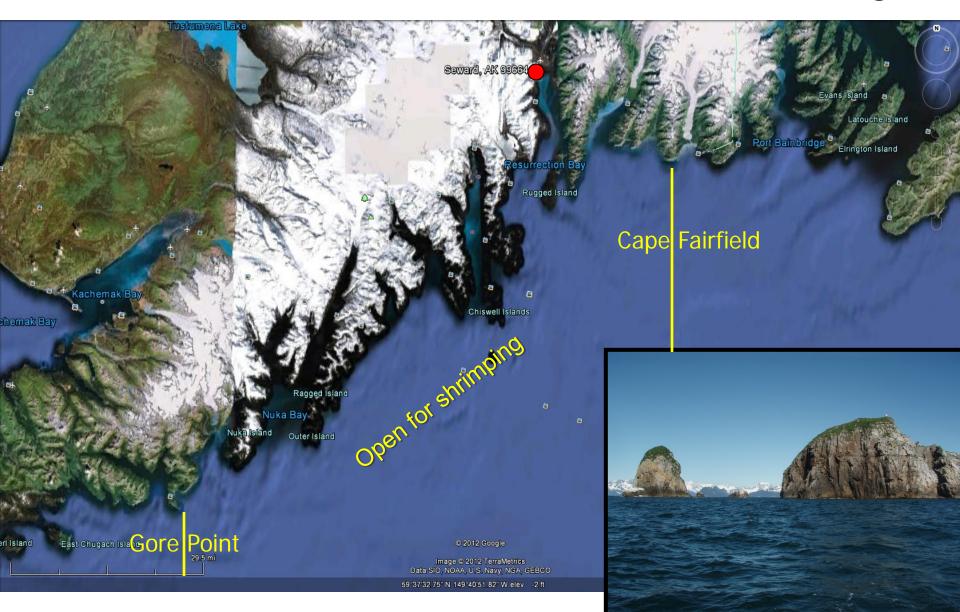




PWS Area

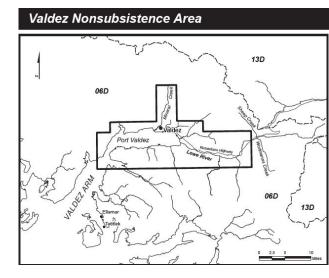


NGC Area: PU Only



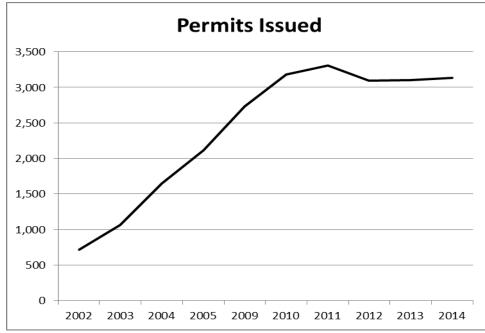
PWS Noncommercial Shrimp Pot Fishery Management Components

- 1) Noncommercial fishery includes Subsistence, Sport, and Personal Use.
- 2) Sport license is required for sport and personal use, but not for subsistence
- All saltwaters are open to shrimp fishing with the exception of subsistence use in the Valdez Nonsubsistence Area
- 4) There is no threshold that must be met in order for this fishery to take place.
- 5) Allocation is 60% of total allowable harvest

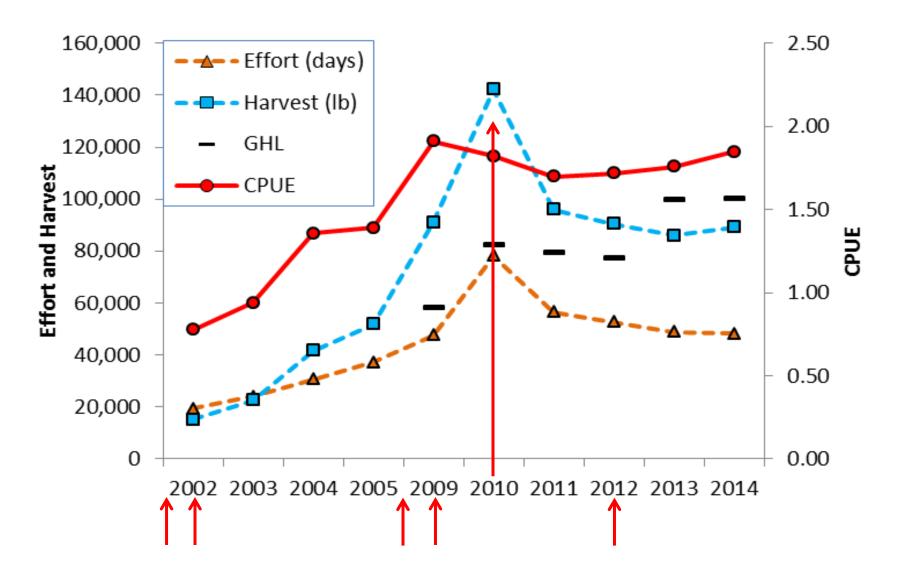


PWS Noncommercial Shrimp Pot Fishery Management Components (Continued)

- 6) Season dates April 15 through September 15
- 7) Pot limits set at 5 pots/person/vessel with no bag, possession, or annual harvest limit
- 8) Harvest/Effort tracked through Shrimp Permit/Recording form ~90% returns
- 9) No inseason management



PWS Noncommercial Shrimp Pot Fishery



Ē

Fishery Dynamics: Non-comm. Harvest

Harvest	Rank
Whittier	1
Valdez	2
Unakwik	3
Port Wells	4
Port Nellie Juan	5
Pot Days (Effort)	Rank
Whittier	1
Valdez	2
Port Wells	3
Port Nellie Juan	4
Unakwik	5
CPUE	Rank
Unakwik	1
Port Wells	2
Port Nellie Juan	3
Whittier	4
Valdez	5



PWS Shrimp Management Plan

Permits are Mandatory for <u>ALL</u> non-commercial users They are FREE!

Available at ADFG offices in Anchorage and Cordova as well many vendors

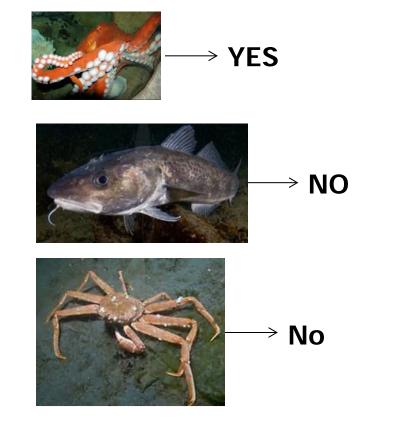


Regulations Cont'd.

• Can you keep anything other than shrimp?

Is there a bag limit on shrimp?

→ Good news… NO



Can you buy, sell, or trade your shrimp?

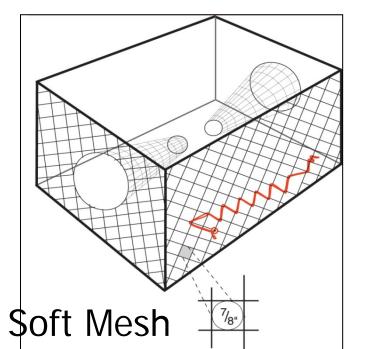
 \longrightarrow No

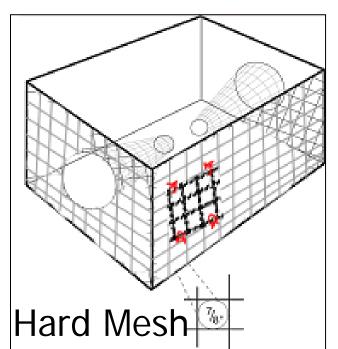
Regulations for Pot Construction Pot design

-Two adjacent (touch each other) vertical sides or half of pot must be webbing (a 7/8 in. dowel must pass through the mesh)

-Top and bottom can be covered by anything **allows for juvenile escape

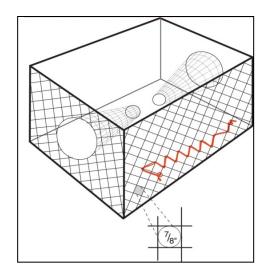
-Escape panel tied with cotton string = No "Ghost Pot"

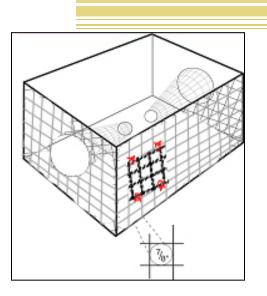




Regulations for Pot Construction

700 pots were lost last year!





Regulations on Buoys

- Buoy marking pot line
 - Must have name, home address, DOT Boat number or boat name (see reg booklet)
 - Recommend putting your phone number on your buoy to aid enforcement officials





•Pick up a regulation booklet

Catching Shrimp

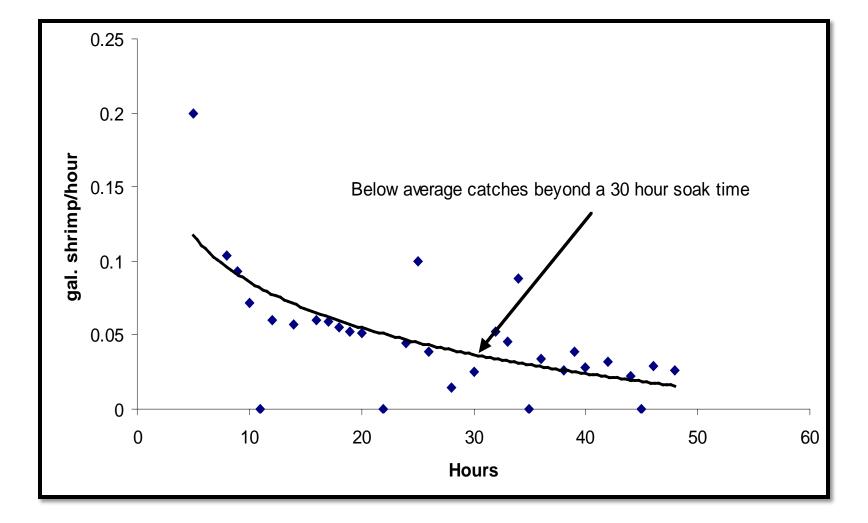


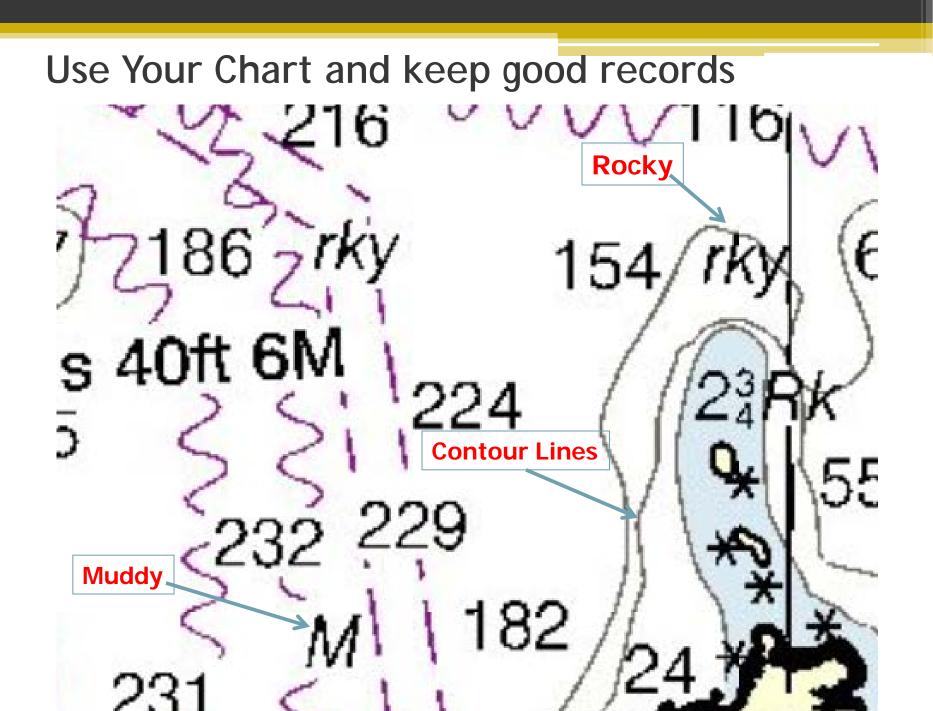
Catching Shrimp: Variability within an Area

- Availability of Food and Cover
- Prevalence of Predators
- Competition with other scavengers
- Season



Catching Shrimp: Pot Soak Time





Catching Shrimp: Maximize your Catch

• Be Adaptive

- Try new areas
- Use a variety of baits
- Adjust depth with seasons
- Adjust your soak times by number of hours and time of day
- Find what works for you but stay adaptive

