

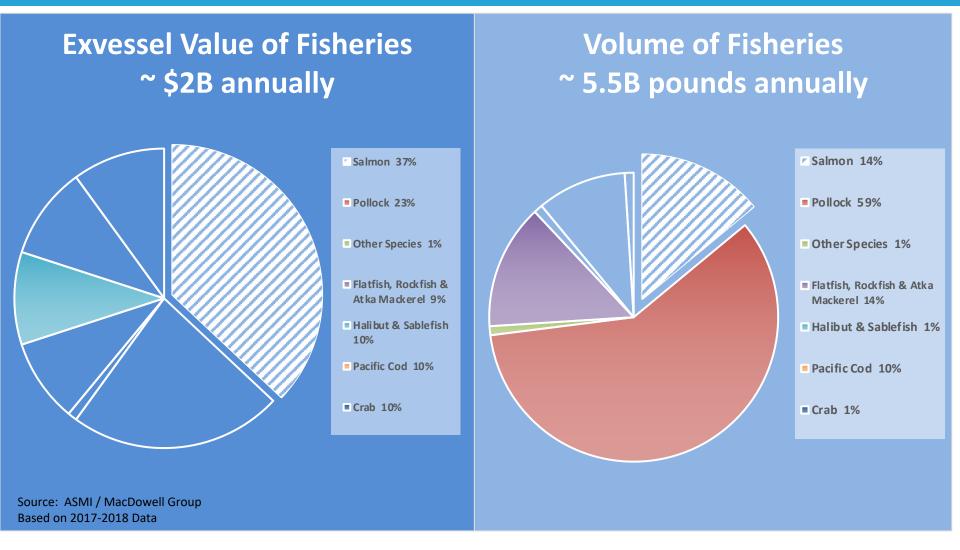
### **NOAA** FISHERIES

**Alaska Region** 

# Alaska Bycatch Review Task Force Presentation

Glenn Merrill Assistant Regional Administrator NOAA Fisheries, Alaska Region

#### Value and Volume of Fisheries Of Alaska



Salmon is managed by the State of Alaska

Other fisheries primarily managed by the North Pacific Council & NOAA Fisheries or in co-management agreements with the State of Alaska



### What Is Bycatch?

Bycatch is defined under the Magnuson-Stevens Act

"...fish which are harvested in a fishery, but are not sold or kept for personal use, and includes economic discards and regulatory discards...."



### Why Does Bycatch Occur?

Bycatch occurs in all fisheries regardless of gear type, area fished, or time of harvest, but the amount and type of bycatch varies

Some bycatch is economic discards – fish are poor quality, no market exists, or other reasons

Most bycatch is regulatory discards – only a specific type of gear is allowed, the fish is caught out-of-season, the fish is too small, or other regulation



**FISHERIES** 

# How Do We Receive Perspectives on Managing Bycatch?

The Council process, outreach efforts, Tribal Consultations, and input during the rule making process

There are many views on balancing bycatch with other legal requirements & we strive to provide multiple opportunities to engage



## What Do We Consider When Managing Bycatch?

NOAA FISHERIES The Magnuson-Stevens Act requires balancing...

Minimizing bycatch & bycatch mortality ... to the extent practicable

Achieving ... the optimum yield from each fishery

Fair and equitable allocation

Sustained participation of communities

& other factors





# What Are The Main Types of Bycatch?

#### Groundfish

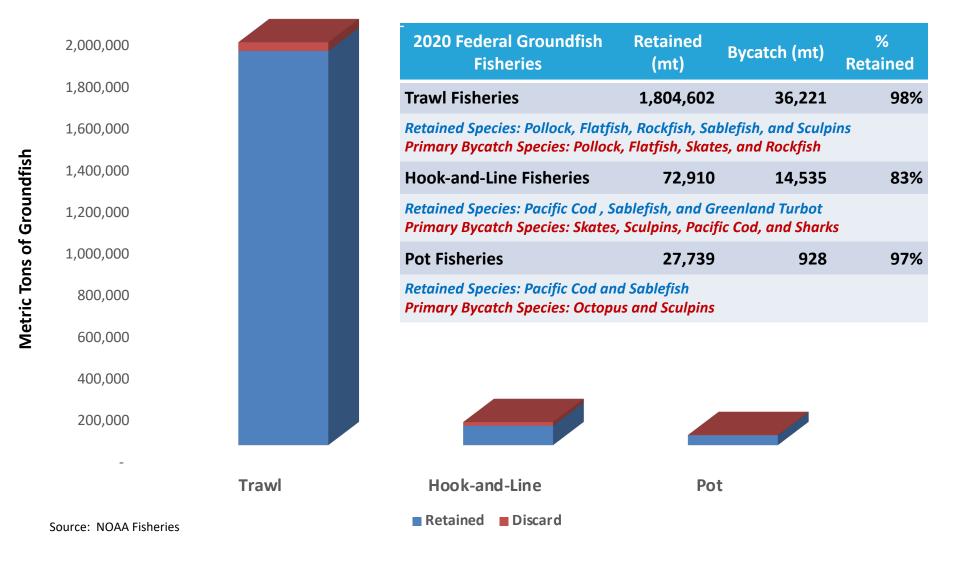
Bycatch for everything but halibut,
 salmon, herring, and shellfish

**Focus Bycatch Species** 

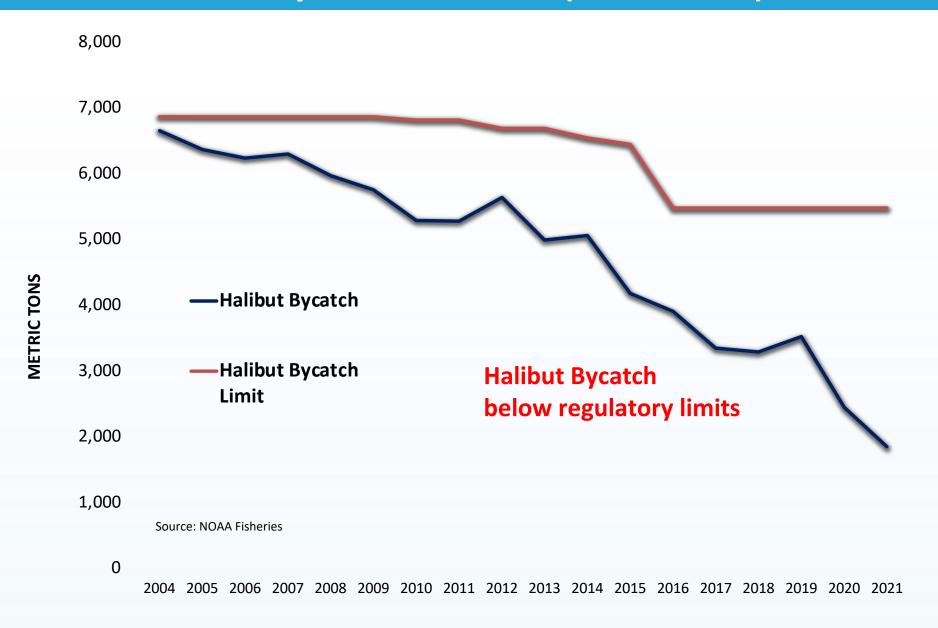
Halibut Salmon Crab

Subject to strict controls & reporting requirements, "Prohibited Species Catch"

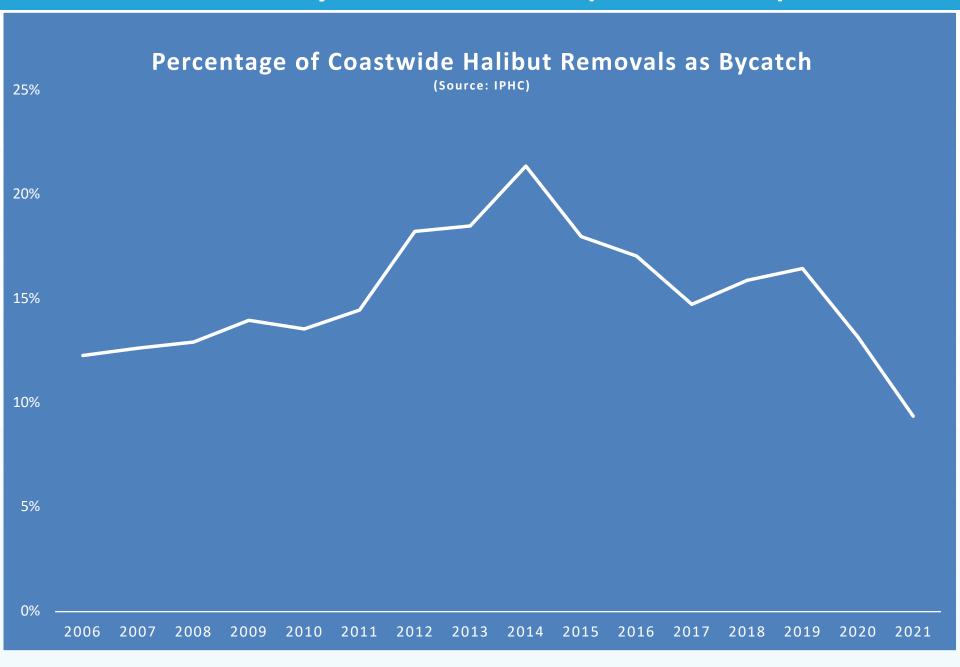
#### Groundfish Bycatch by Gear in Federal Fisheries Off Alaska (2021)



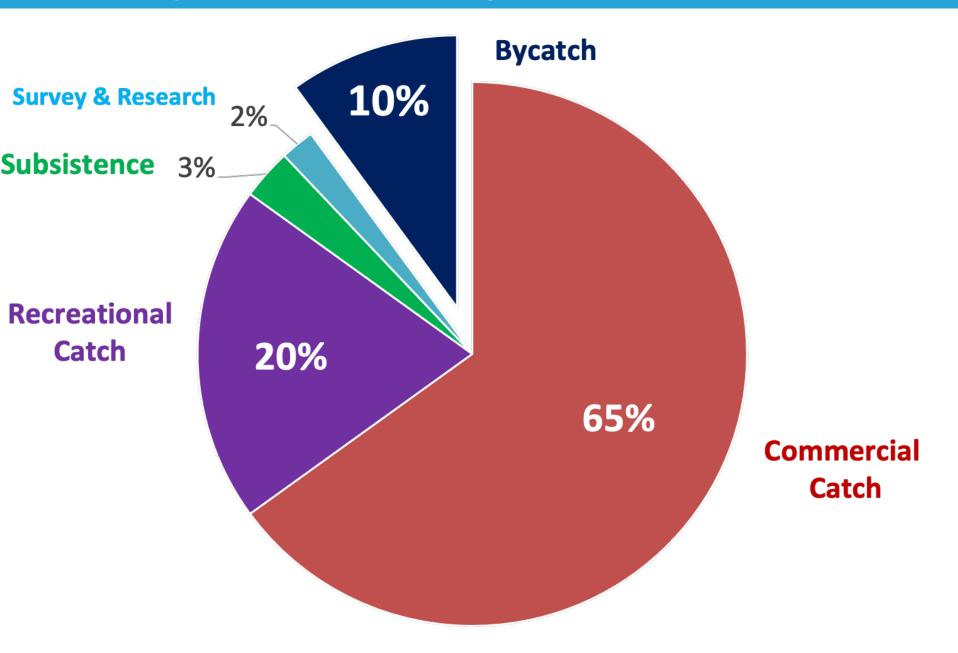
#### Halibut Bycatch off Alaska (2004 - 2021)



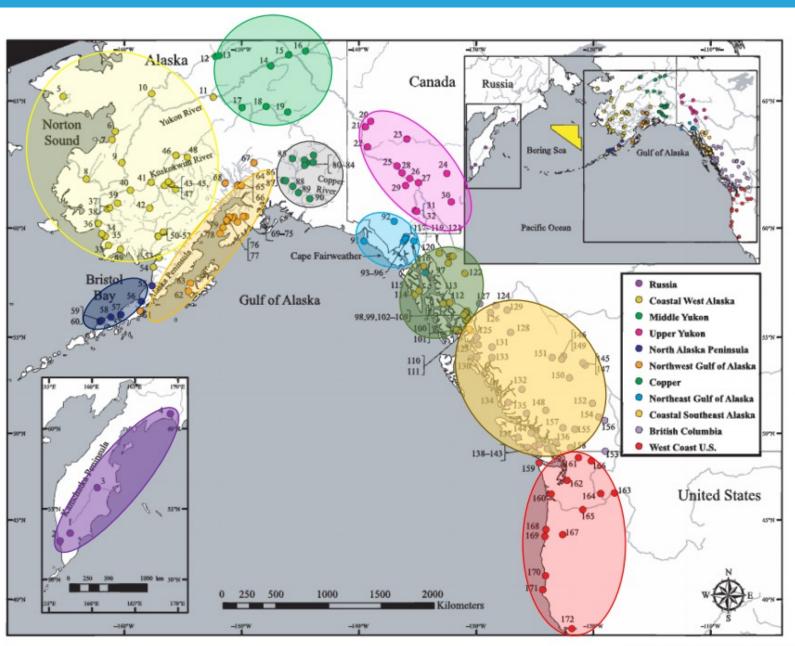
#### Halibut Bycatch off Alaska (2006 - 2021)



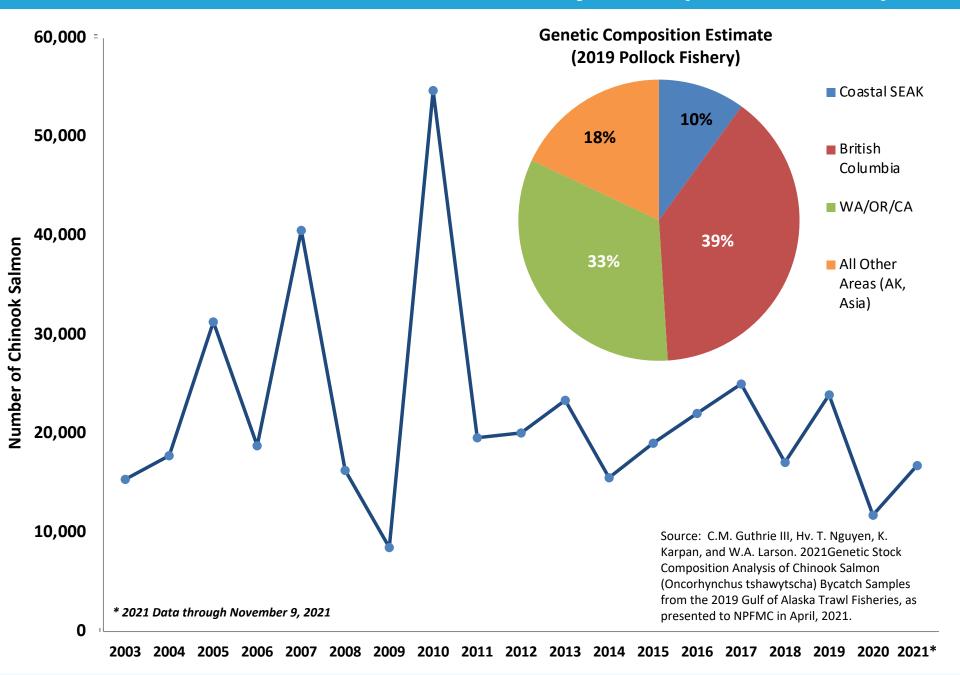
#### Halibut Bycatch as a Percentage of All Halibut Catch (2021)



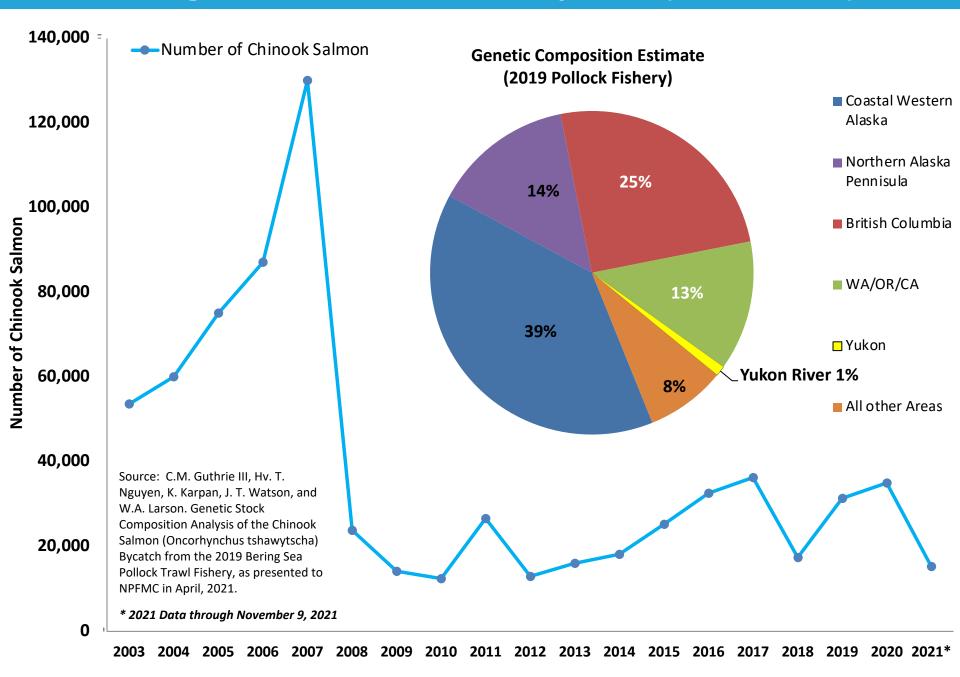
#### **Chinook Salmon Genetic Composition Areas**



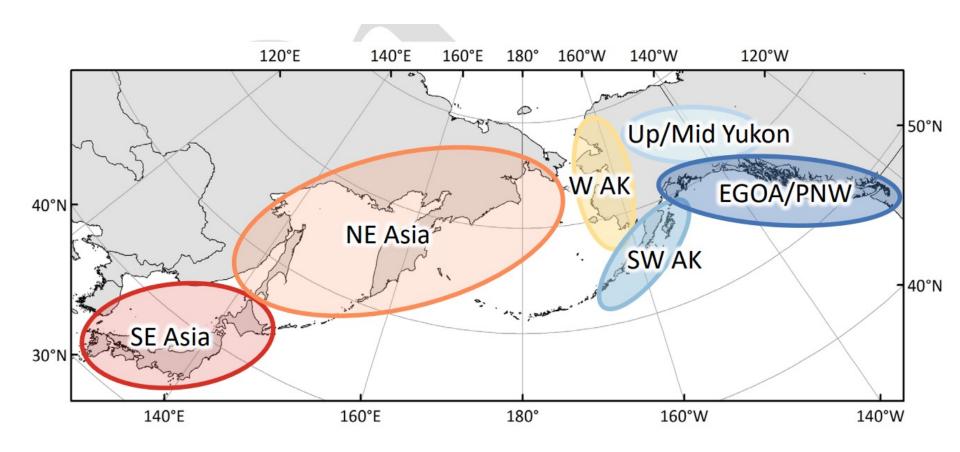
#### Gulf of Alaska Chinook Salmon Bycatch (2003 – 2021)



#### Bering Sea Chinook Salmon Bycatch (2003 -2021)

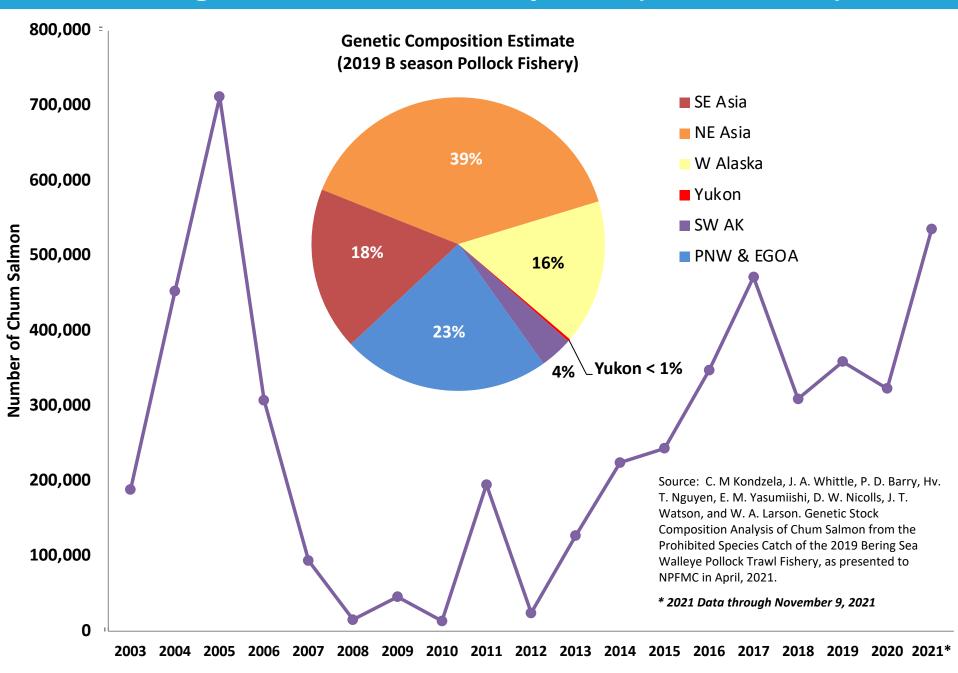


#### **Chum Salmon Genetic Composition Areas**



Source: C. M Kondzela, J. A. Whittle, P. D. Barry, Hv. T. Nguyen, E. M. Yasumiishi, D. W. Nicolls, J. T. Watson, and W. A. Larson. Genetic Stock Composition Analysis of Chum Salmon from the Prohibited Species Catch of the 2019 Bering Sea Walleye Pollock Trawl Fishery, as presented to NPFMC in April, 2021.

#### Bering Sea Chum Salmon Bycatch (2003 – 2021)







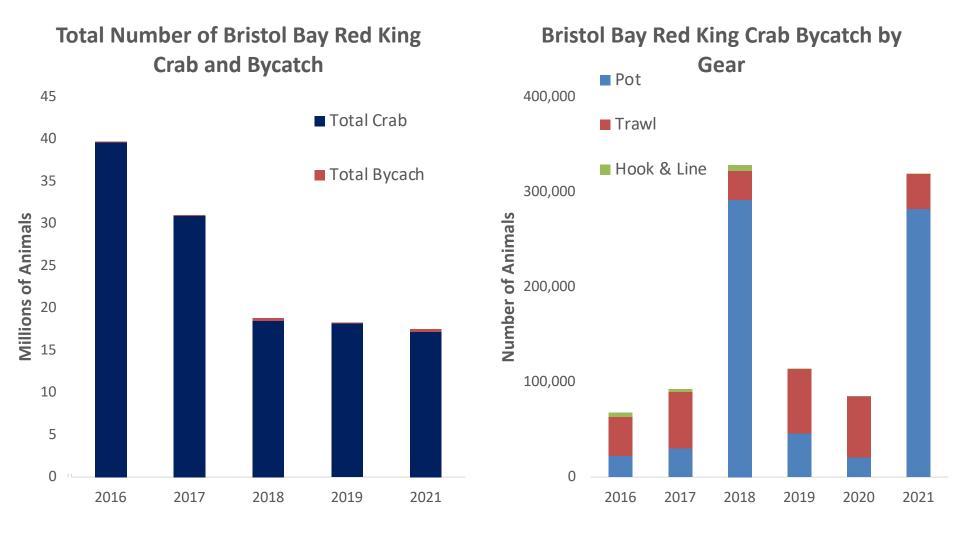
### Chinook salmon bycatch in the Bering Sea is ~ 3 %

&

Chum salmon bycatch in the Bering Sea is ~ 1 % of the total returns to Western Alaska Rivers

Percentage of returns is low, but bycatch amounts remain a concern

#### Bristol Bay Red King Crab Bycatch (2016 - 2021)



Source: Zacher et al. 2021, Table 7, & NOAA Fisheries

<sup>\* 2021</sup> Bycatch data through November 5, 2021





# How Do We Measure Bycatch?

- Largest At-sea monitoring program in the Nation
- Over 40,000 observer days of observation.
- 100% (or 200%) observer coverage on vessels in catch share programs, and all trawl catcher/processors
  - Electronic monitoring program on pot and hook & line vessels, and pollock vessels
    - Annual scientific review process allowing continuous improvement





# How Do We Control Bycatch?

- Bycatch caps (limits)
  - Closure areas
- Limit fishing for certain species
  - Limit the use of specific gear
- Link Chinook bycatch caps to Western Alaska returns
- Catch share management allows fleets to avoid a "race for fish", share information, and adopt better fishing practices
- Experimental Fishing Permits that allow testing of new methods to reduce bycatch through gear modifications
- Constant communication with the fleets to help them avoid bycatch "hot spots" and manage effort
- Facilitate industry efforts voluntary cooperatives, and "stand downs"





### What Will We Be Doing in the Future?

- Implement Pacific cod catch share program with reductions in halibut & crab bycatch
  - Link halibut bycatch caps to abundance
- Improve communication with communities, Tribal Governments, and the fishing fleets
  - Encourage more industry efforts -- voluntary cooperatives, and "stand downs"
    - Facilitate additional catch share programs
       through the Council process
  - Constantly review performance!



### **NOAA** FISHERIES

**Alaska Region** 

### More Information & Contacts

- NOAA Fisheries Alaska Region www.alaskafisheries.noaa.gov
- North Pacific Fishery Management Council www.npfmc.org
  - State of Alaska Department of Fish and Game

www.adfg.Alaska.gov

 International Pacific Halibut Commission www.iphc.int