Kodiak Pacific Cod Fisheries Overview

Report to the Alaska Board of Fisheries January 11-14, 2020

Oral Report: RC 3; Tab 7

Staff Comments: RC 2



List of Fishery Terms

- NPFMC = North Pacific Fishery Management Council
- NMFS = National Marine Fisheries Service
- ABC = Acceptable Biological Catch
- TAC = Total Allowable Catch (Federal/parallel catch limit)
- GHL = Guideline Harvest Level (State-waters catch limit)
- Sectors = Different gear types or processing capabilities used to allocate federal/parallel TAC
- **LLP** = License Limitation Program (equivalent to state's limited entry program)
- **FFP** = Federal Fisheries Permit
- **SSL** = Steller Sea Lion
- VMS = Vessel Monitoring System

List of Fishery Terms - Jurisdiction

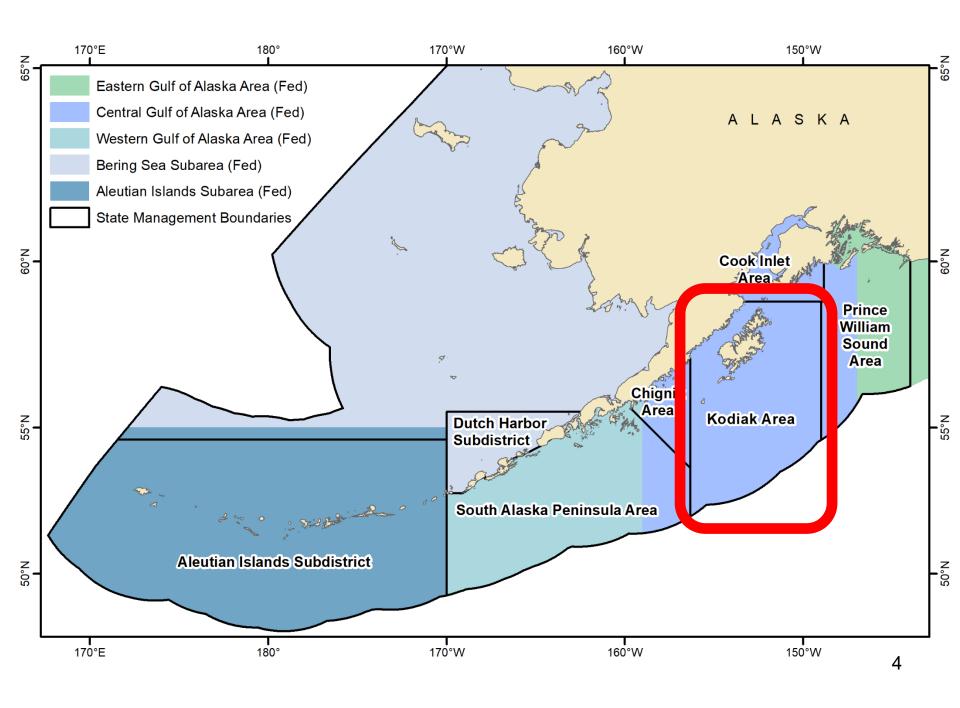
 Federal Waters = Waters from 3–200 nmi offshore under federal management jurisdiction

Federal Pacific Cod Groundfish Management Areas (5)

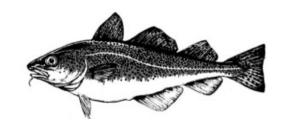
- EGOA = Eastern Gulf of Alaska
- CGOA = Central Gulf of Alaska
- WGOA = Western Gulf of Alaska
- **BS** = Bering Sea
- AI = Aleutian Islands
- **State Waters** = Waters from 0–3 nmi offshore under state management jurisdiction

State Pacific Cod Groundfish Management Areas (8)

- Eastern Gulf of Alaska (Southeast Alaska)
- Prince William Sound
- Cook Inlet
- Kodiak
- Chignik
- South Alaska Peninsula
- Dutch Harbor Subdistrict
- Aleutian Islands Subdistrict

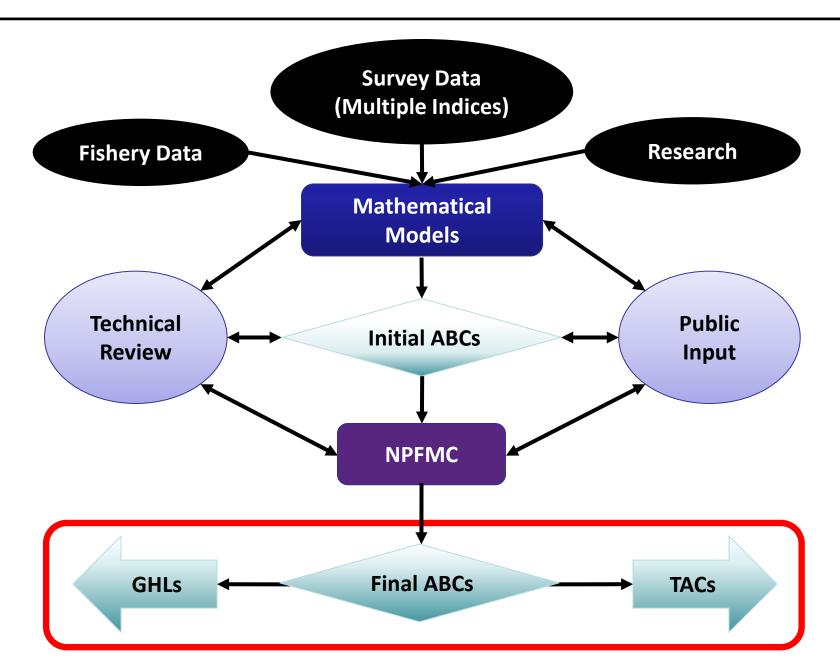


Alaska Pacific Cod Fisheries:



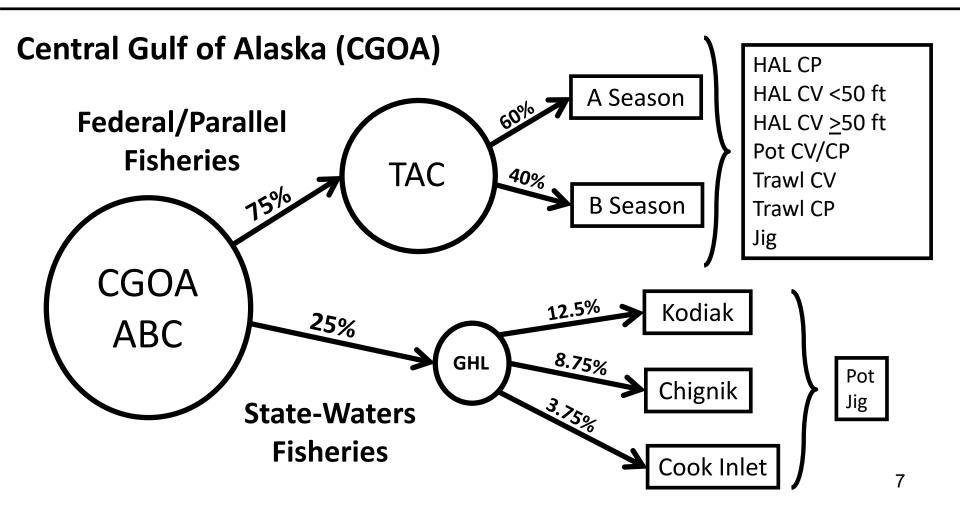
- Federal: Federal waters (3–200 nmi) guided by NPFMC process. Harvest deducted from federal TAC.
- Parallel: State waters (0–3 nmi) concurrent with adjacent federal fishery and generally adopt federal regulations and management measures as guided by the board process. Harvest deducted from federal TAC.
- State-Waters (GHL): State waters (0–3 nmi) guided by the board process. Harvest deducted from state GHL.

Pacific Cod Stock Assessment Process



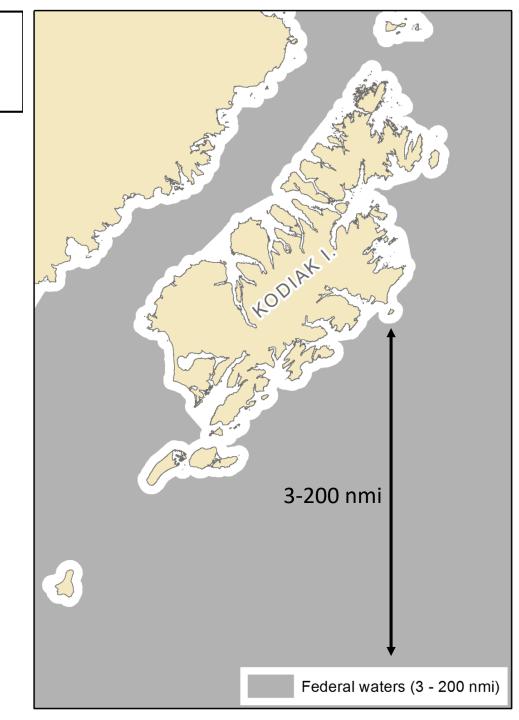
Harvest Limits

- ABC Acceptable Biological Catch (Federal: EGOA, CGOA, WGOA, BS, AI)
- TAC Total Allowable Catch (Federal/Parallel Fisheries)
- GHL Guideline Harvest Level (State-Waters Fisheries)



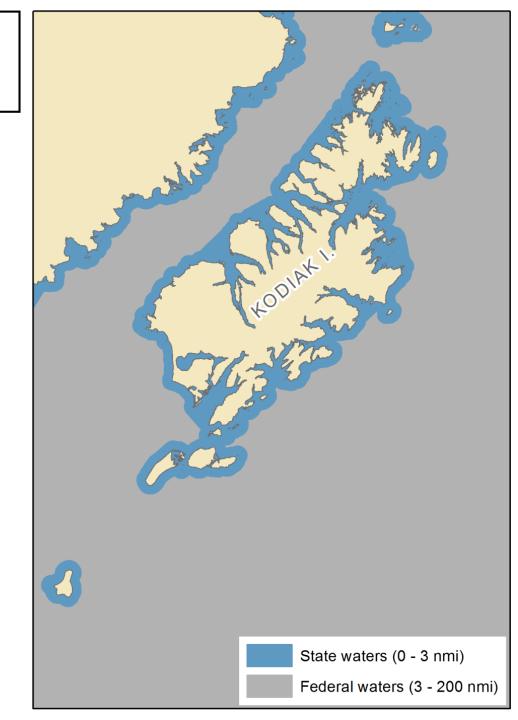
CGOA Federal Pacific Cod Fishery

- Federal waters 3–200 nmi
- Harvest limit (TAC) based on 75% of federal Pacific cod ABC
- Gear sectors: trawl, longline, pot, and jig gear (CV and CP)
- A and B seasons (Jan 1 and Sep 1)
- No gear limits, vessel length limited to 125 ft
- Limited access (FFP and LLP required)
- Steller sea lion (SSL) protection measures (no fishing zones and VMS)
- Observer requirements



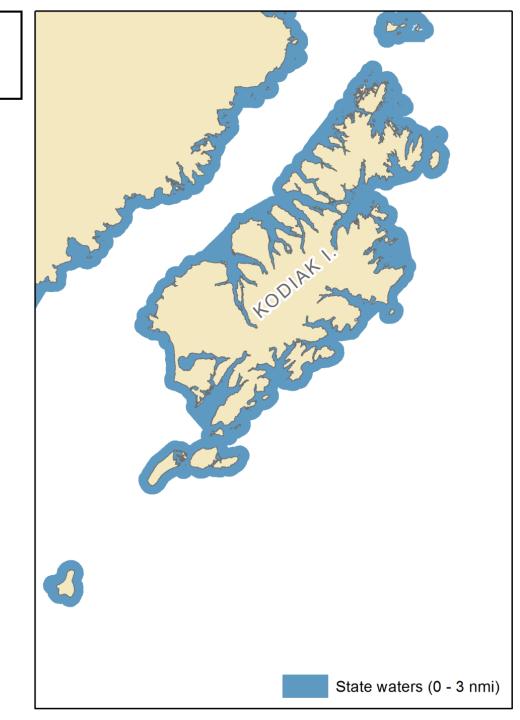
Kodiak Area Parallel Pacific Cod Fishery

- State waters 0–3 nmi
- Opened concurrent to federal fishery by state EO
- Shared TAC with federal fishery
- Gear sectors: trawl, longline, pot and jig gear (bottom trawl restrictions)
- A and B seasons (Jan 1 and Sep 1)
- No gear limits, vessel length limited to 125 ft
- Open access (FFP/LLP not required)
- Most SSL protection measures adopted
- Observer requirements only for federally permitted vessels



Kodiak Area State-Waters Pacific Cod Fishery

- State waters 0–3 nmi
- Harvest limits (GHL) based on 12.5% of federal Pacific cod ABCs
- Seasons open after federal/parallel fisheries close
- Pot and jig gear only
- Gear limited to 60 pots or 5 jig machines
- No vessel length limit
- Open access exclusive registration
- SSL rookery protection only
- No observer requirements



OVERVIEW OF CURRENT CGOA STATE-WATERS FISHERIES

8.75%

Pot and jig

1.48 million pounds

Pot: 90% (1.33 mil)

Pot: 7 days after CGOA pot A

season close or March 1

Jig: 10% (148k)

Jig: March 15

Superexclusive

August 14

58 ft

Pot: 9

Jig: <1

Inlet Area

Pot: 24 hours after CGOA pot

Jig: 48 hours after CGOA jig A

11

3.75%

634,000 pounds

Pot: 85% (539k)

Jig: 15% (95k)

A season close

season close

September 1

Exclusive

None

Pot: 11

Jig: 4

Pot and jig

	WATERS FISHERIE	
Kodiak Area	Chignik Area	Cook

% CGOA ABC

2019 GHL

Gear Types

GHL Allocations

Opening date

Registration

vessel length

Vessel Count

(2015-2019)

Maximum

GHL rollover date

12.5%

Pot and jig

2.11 million pounds

Pot: 50% (1.06 mil)

Jig: 50% (1.06 mil)

season pot close

B season close

Exclusive

None

Pot: 23

Jig: 54

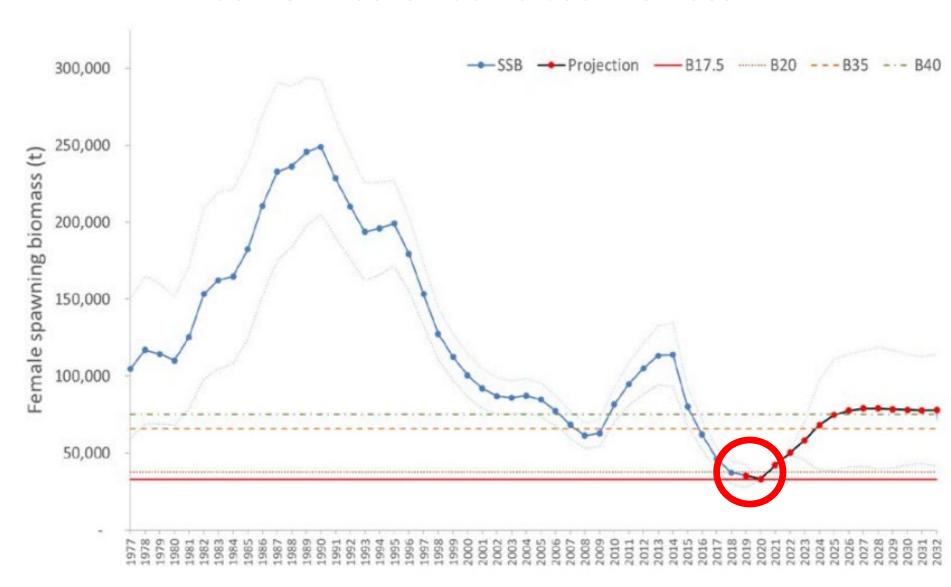
Pot: 7 days after CGOA A

season close or March 15

After CGOA pot gear

Jig: 48 hours after CGOA jig A

Gulf of Alaska Pacific Cod Biomass



 Spawning biomass has declined sharply since 2014 and is projected to reach an all-time low in 2020

 Due to increased natural mortality and poor recruitment during the "Blob" (2014–2016 GOA marine heatwave event)

Two important stock status thresholds:

 $B_{20\%}$ = SSL closure $B_{17.5\%}$ = overfished

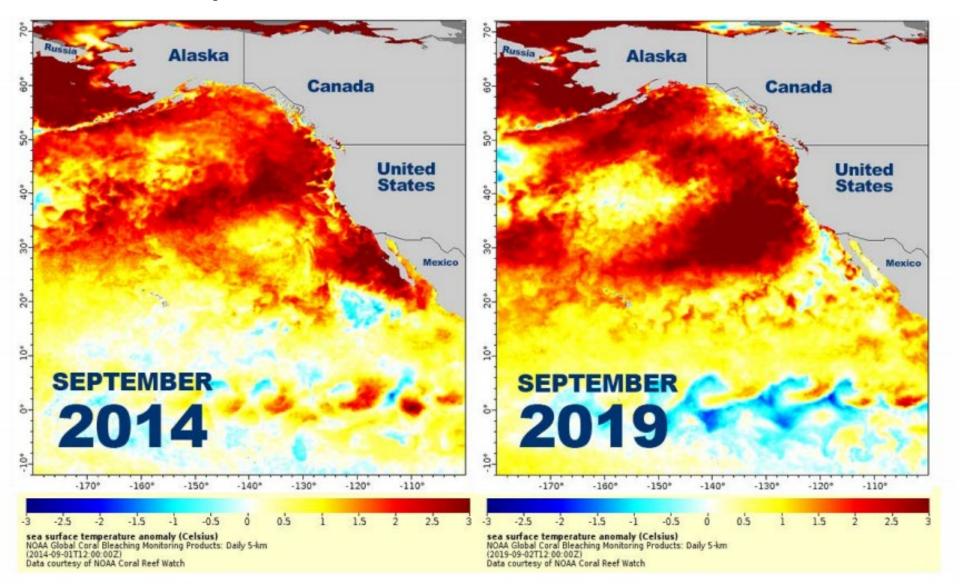
In 2020, spawning biomass is projected to be B_{17.6%}
 (Below the SSL threshold but above the overfished threshold)

Therefore...

- Directed federal fisheries closed in 2020 due to SSL rules
- State-waters GHLs reduced by 35% to promote conservative management of Pacific cod and address SSL concerns
- Spawning biomass projected to be above B_{20%} in 2021 based on reduced harvest and assumptions of average natural mortality and recruitment from 2018 forward

But...

- New marine heatwave event began September 2018
- 2019 summer sea surface temps were warmer than during the "Blob" years (2014–2016)



2020 Kodiak Finfish Meeting Pacific Cod Proposals (7)

Jig gear fishery – 2 Proposals

Proposals 39 - Exclusivity

Proposal 50 - Gear limits

State-waters gear allocations – 2 Proposals

Proposals 51 - GHL gear allocation

Proposal 54 - GHL rollover

State-waters with federal/parallel overlap - 2 Proposals

Proposals 52 - ABC allocation and GHL gear allocation

Proposals 53 - Interannual GHL rollover

State-waters season dates - 1 Proposal

Proposal 283 - AIS season dates and vessel length limits

Designate all registration areas as nonexclusive for statewaters Pacific cod jig gear fisheries

Allow jig gear vessels to fish in multiple areas during the same calendar year

Proposal 50

Increase gear limits in Kodiak Area jig gear fisheries from 5 jig machines to 6 jig machines

- Applies to all vessels in state-waters Pacific cod and state-managed black rockfish fisheries and to non-FFP vessels in the parallel Pacific cod fishery
- Vessels in the parallel Pacific cod fishery with FFPs would be subject to federal gear limits

Change GHL gear allocation between pot and jig gear from 50/50 to 60/40 and annually increase or decrease jig gear allocation by 5% based on previous year's fishery performance

- Pot gear allocation would not exceed 80% or be reduced below 50%
- Jig gear allocation would not exceed 50% or be reduced below 20%

Proposal 54

Reopen pot gear fishery on May 8 and make 50% of unharvested jig gear GHL allocation available for harvest by pot gear vessels

 Provides pot gear vessels access to a portion of the jig gear GHL allocation but does not reallocate GHL

Increase Kodiak Area state-waters fishery's portion of CGOA ABC by 5% (from 12.5% to 17.5%) and make the additional 5% available only to pot gear vessels by changing the GHL gear allocation between pot and jig gear from 50/50 to 65/35

- 82% increase in state-waters pot gear GHL
- 2% decrease in state-waters jig gear GHL
- 5% decrease in federal TAC

Proposal 53

Roll unharvested jig gear GHL allocation to the pot gear vessel's allocation during following year's state-waters fishery

- Annually variable CGOA ABC apportionment
- Increase GHLs and decrease TACs

Amend season dates for the Aleutian Islands Subdistrict (AIS) state-waters Pacific cod fishery to exclude vessels greater than 60 ft in length prior to March 15

Board generated proposal

