The Commercial Salmon Fisheries of the Kodiak Management Area

Presented by

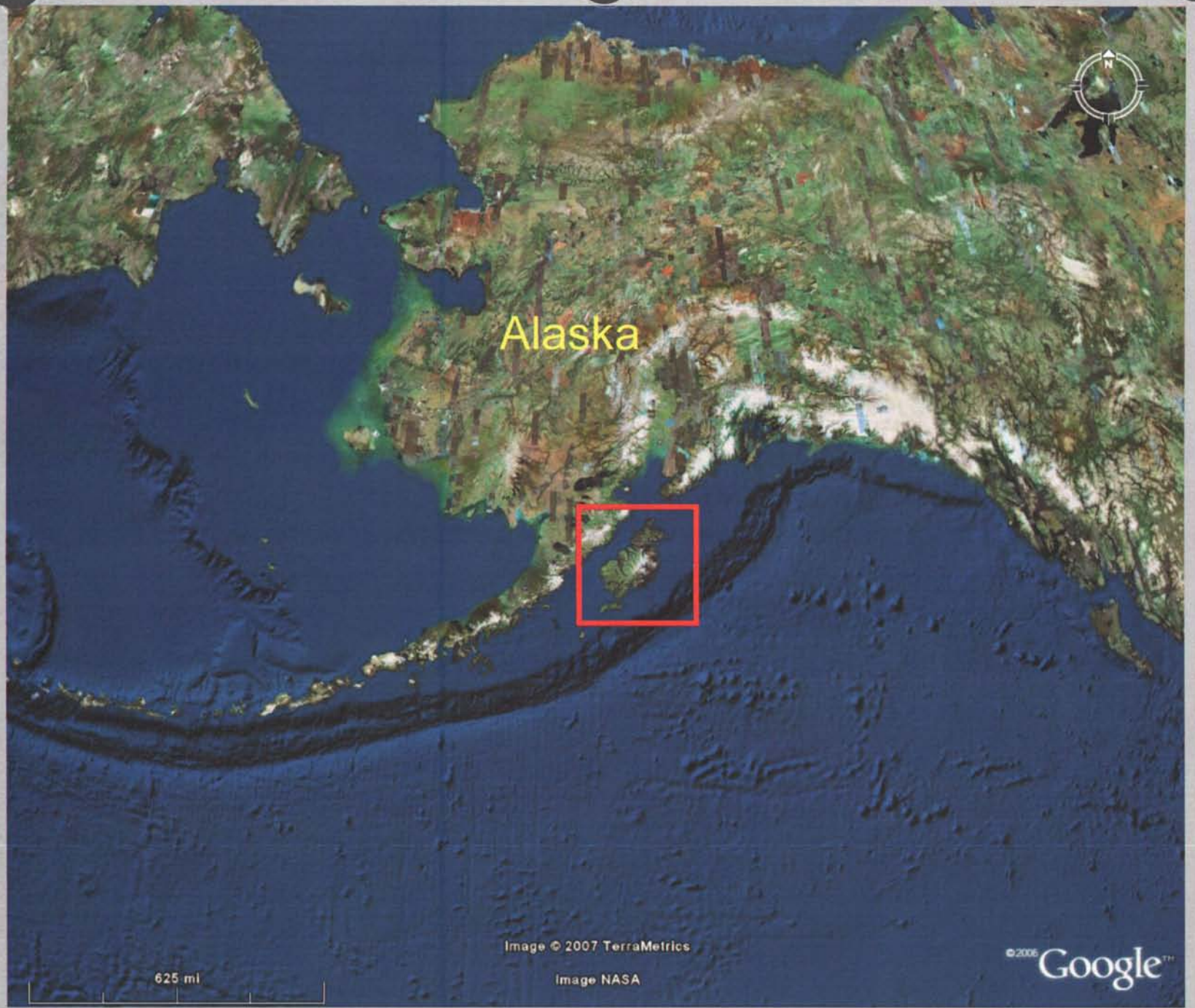
Jeff Wadle

A Report to the Alaska Board of Fisheries
January, 2008

Alaska Department of Fish and Game
Division of Commercial Fisheries

Oral Report: RC 2; Tab 4
Written Report: RC 2; Tab 15

Staff Comments: RC 2; Tab 25


Alaska
Image © 2007 TerraMetrics
Image NASA
625 mi
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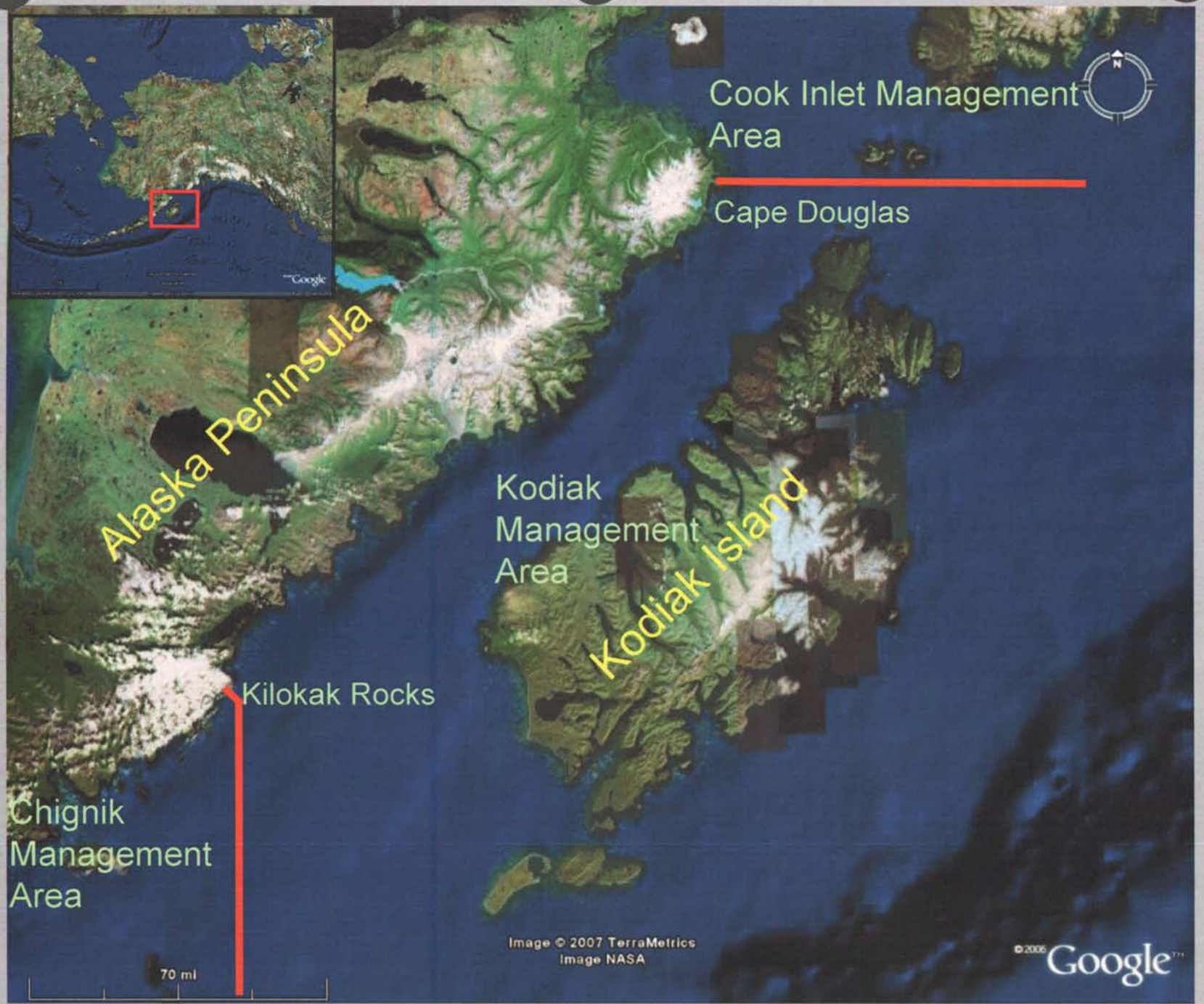
Cook Inlet Management Area
Cape Douglas
Alaska Peninsula
Kodiak Management Area
Kodiak Island
Kilokak Rocks
Chignik Management Area
70 mi
Image © 2007 TerraMetrics
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Alaska Peninsula
Mainland District
Northwest Kodiak District
Northeast Kodiak District
Afognak District
Kodiak Island
Southwest Kodiak District
Alitak District
Eastside Kodiak District
54 mi
Image NASA
Image © 2007 TerraMetrics
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North Afognak/Shuyak Island Salmon MP
Alaska Peninsula
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
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Eastside Afognak Salmon MP
Alaska Peninsula
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
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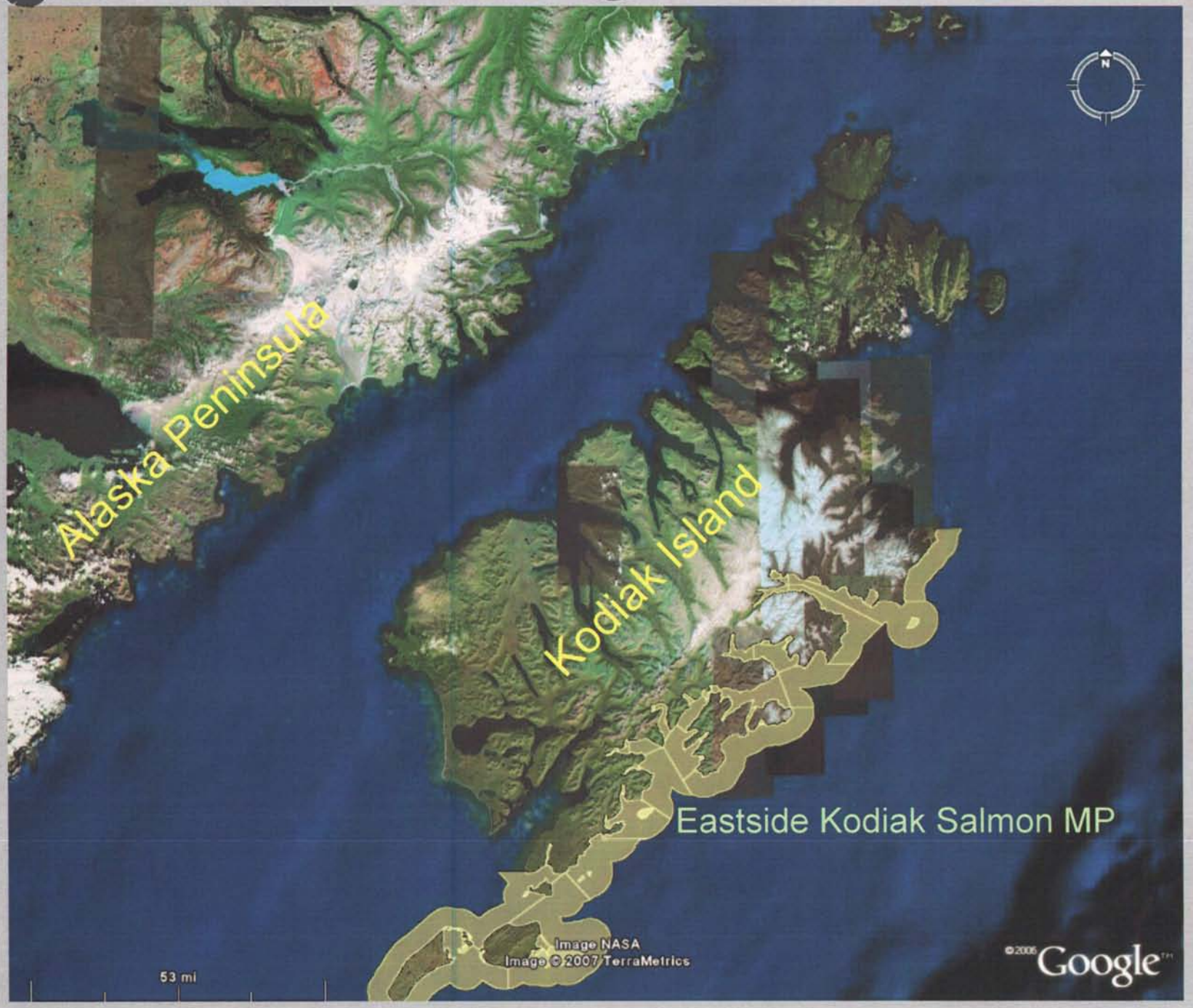
Alaska Peninsula
Kodiak Island
Eastside Kodiak Salmon MP
Image NASA
Image © 2007 TerraMetrics
53 mi
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Alaska Peninsula
Kodiak Island
Alitak District Salmon MP
Image NASA
Image © 2007 TerraMetrics
53 mi
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Alaska Peninsula
Westside Kodiak Salmon MP
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
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Mainland Salmon MP
Alaska Peninsula
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
©2006 Google

Spiridon Bay Sockeye Salmon MP
Telrod Cove
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
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Crescent Lake Coho Salmon MP
Settler Cove
Kodiak Island
Image NASA
Image © 2007 TerraMetrics
53 mi
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Alaska Peninsula
Kodiak Island
Cape Igvak Salmon MP
Image NASA
Image © 2007 TerraMetrics
53 mi
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North Shelikof Strait Sockeye Salmon MP
Alaska Peninsula
Kodiak Island
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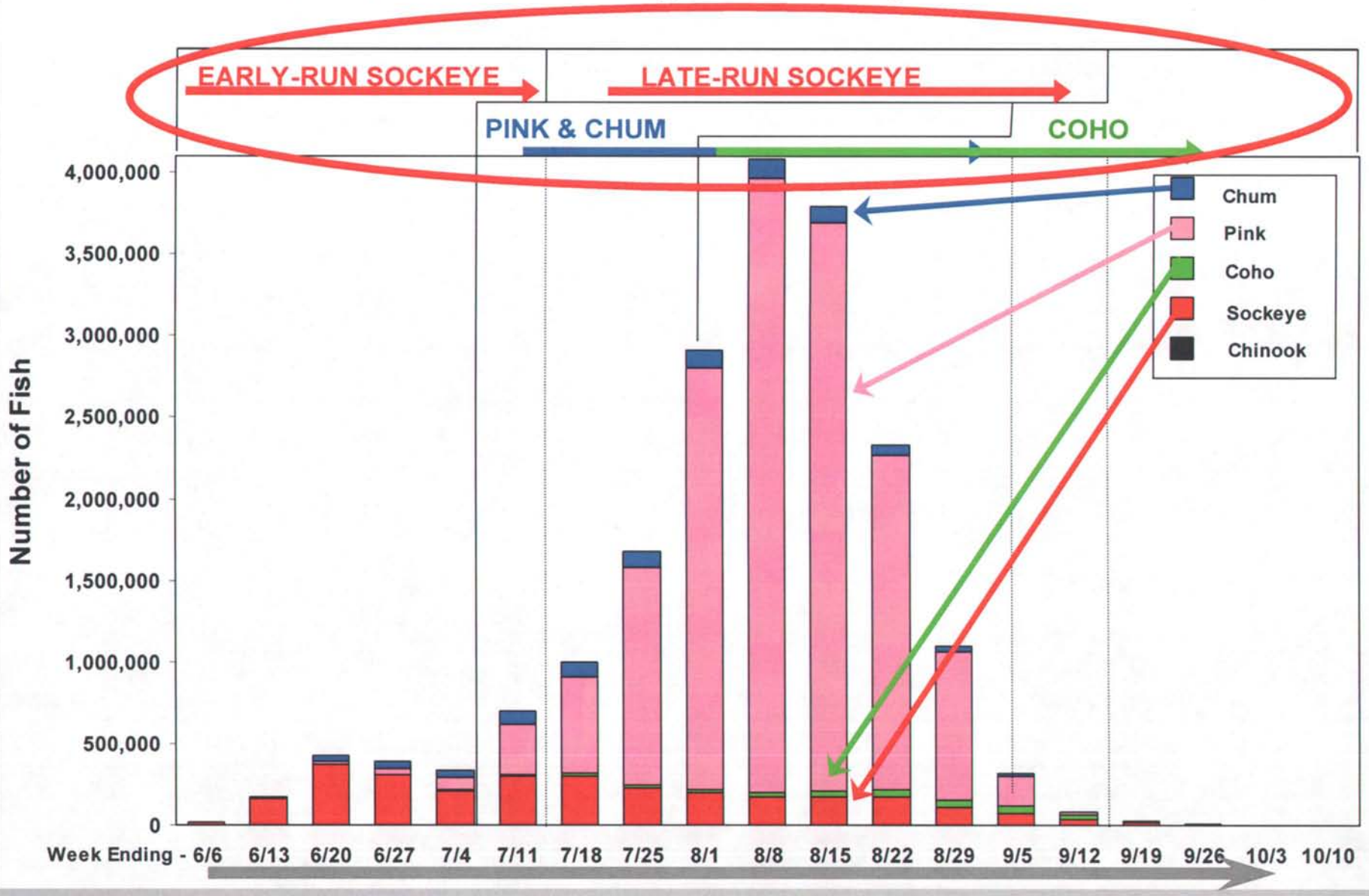
Average Weekly Salmon Harvest for the Kodiak Management Area, 1978-2007



Three legal gear types in the KMA
Purse Seine
Beach Seine
Set Gillnet
Alaska Peninsula
Kodiak Island
53 mi
Image © 2007 TerraMetrics
Image NASA
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- Seine only areas
Alaska Peninsula
Kodiak Island
53 mi
Image © 2007 TerraMetrics
Image NASA
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- Seine only areas
- Gillnet only areas
Alaska Peninsula
Kodiak Island
53 mi
Image © 2007 TerraMetrics
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- Seine only areas
- Gillnet only areas
- Seine and Gillnet areas
Alaska Peninsula
Kodiak Island
53 mi
Image © 2007 TerraMetrics
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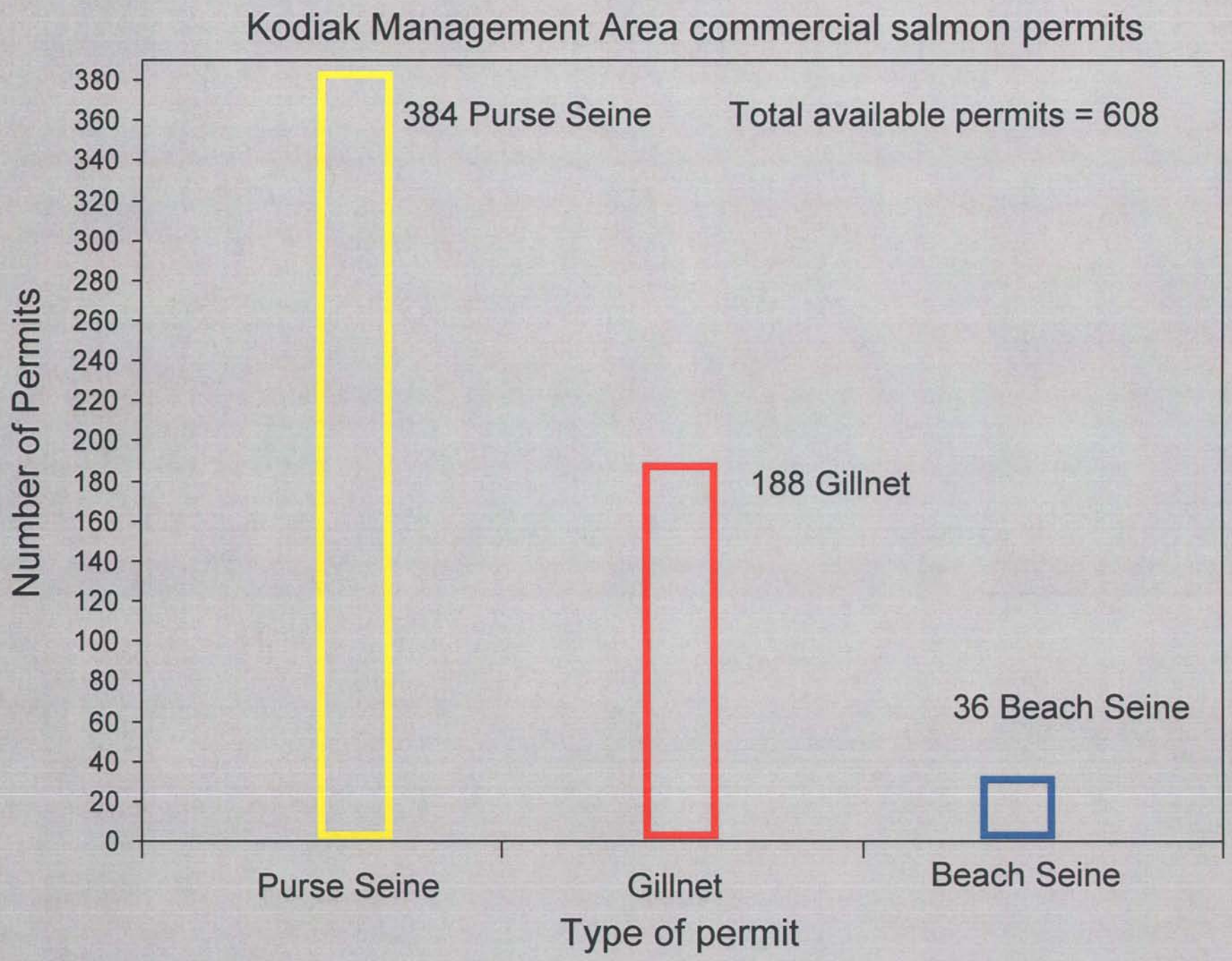
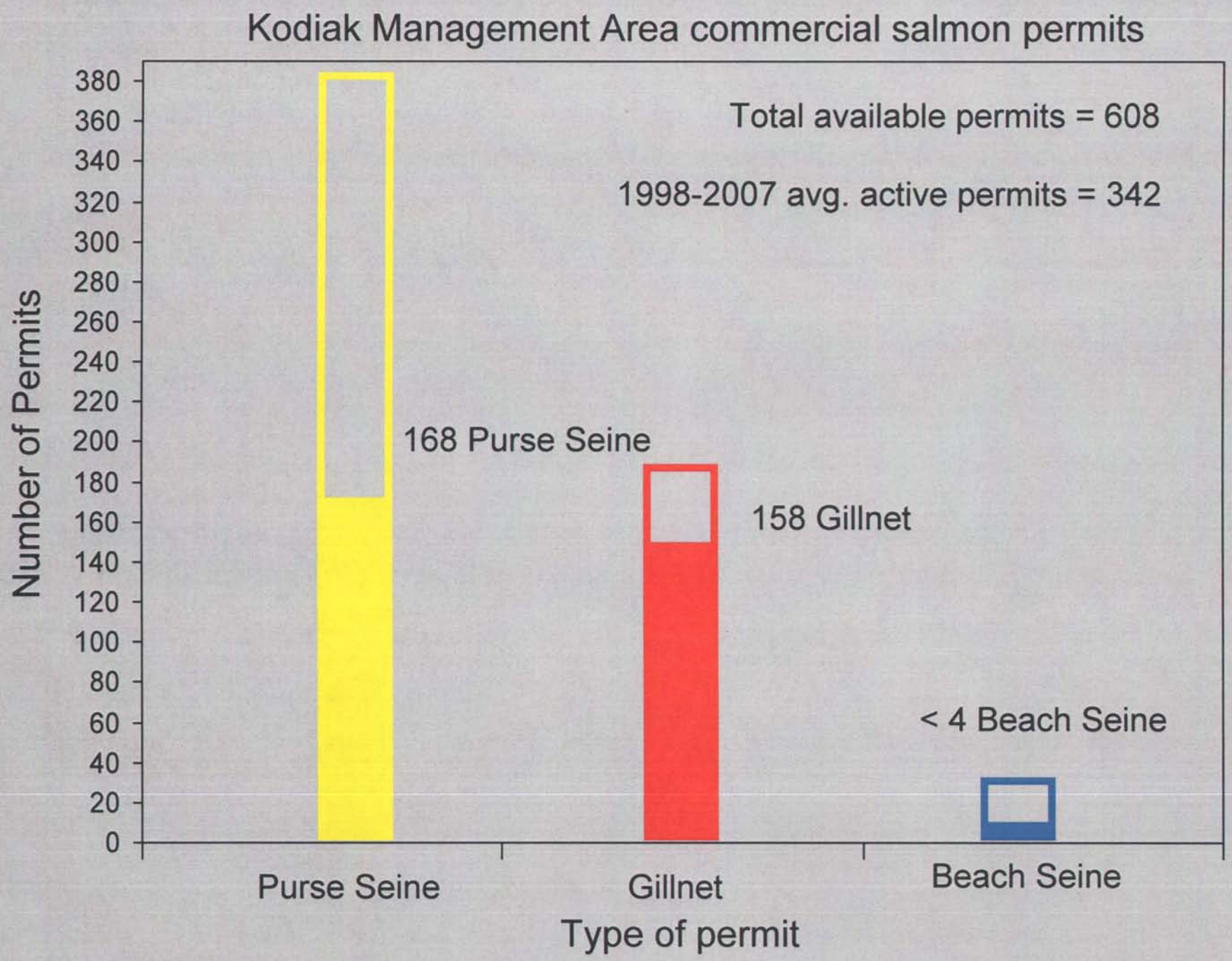
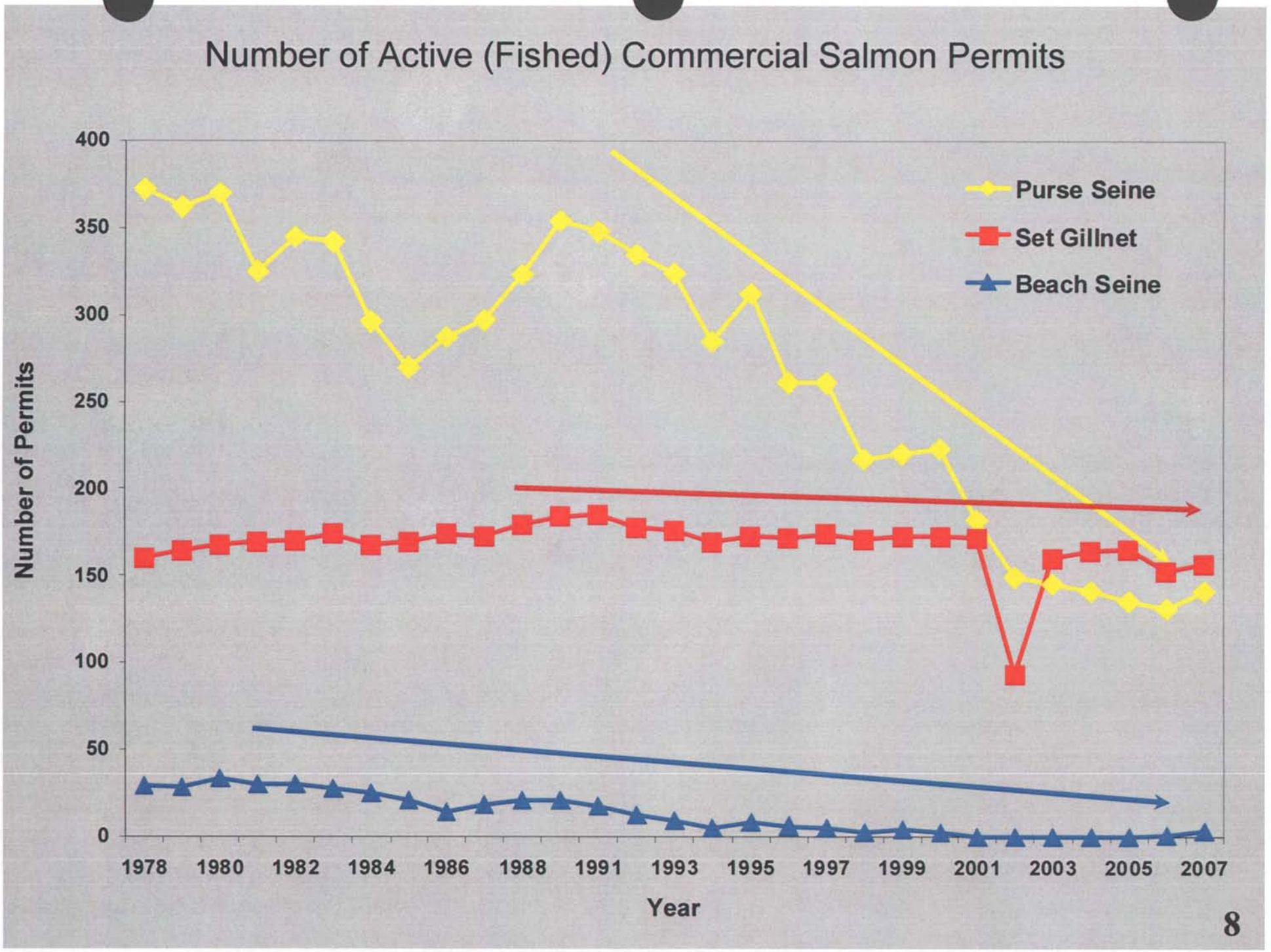
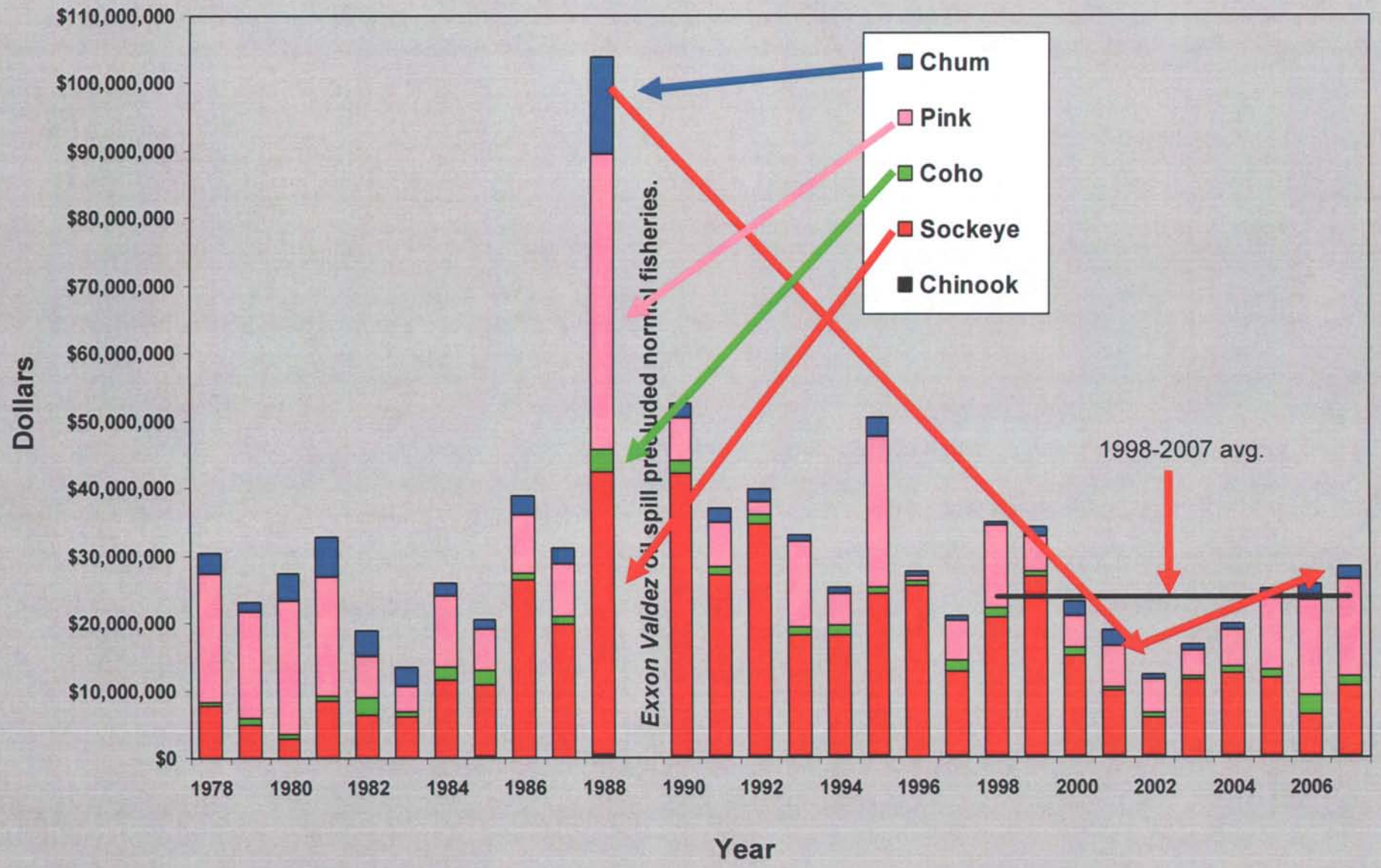
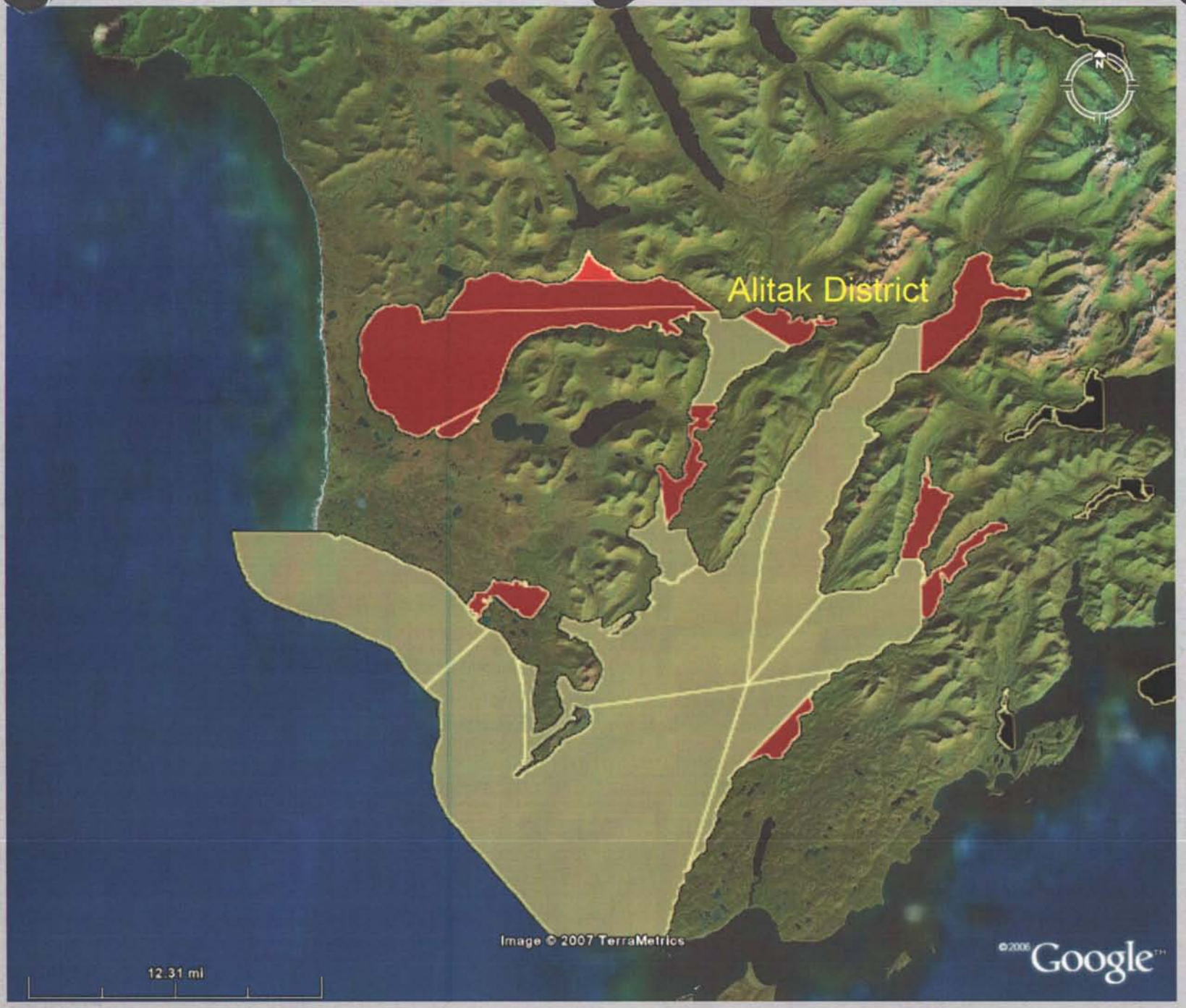

Kodiak Management Area commercial salmon permits
Number of Permits
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
384 Purse Seine
Total available permits = 608
188 Gillnet
36 Beach Seine
Purse Seine
Gillnet
Beach Seine
Type of permit

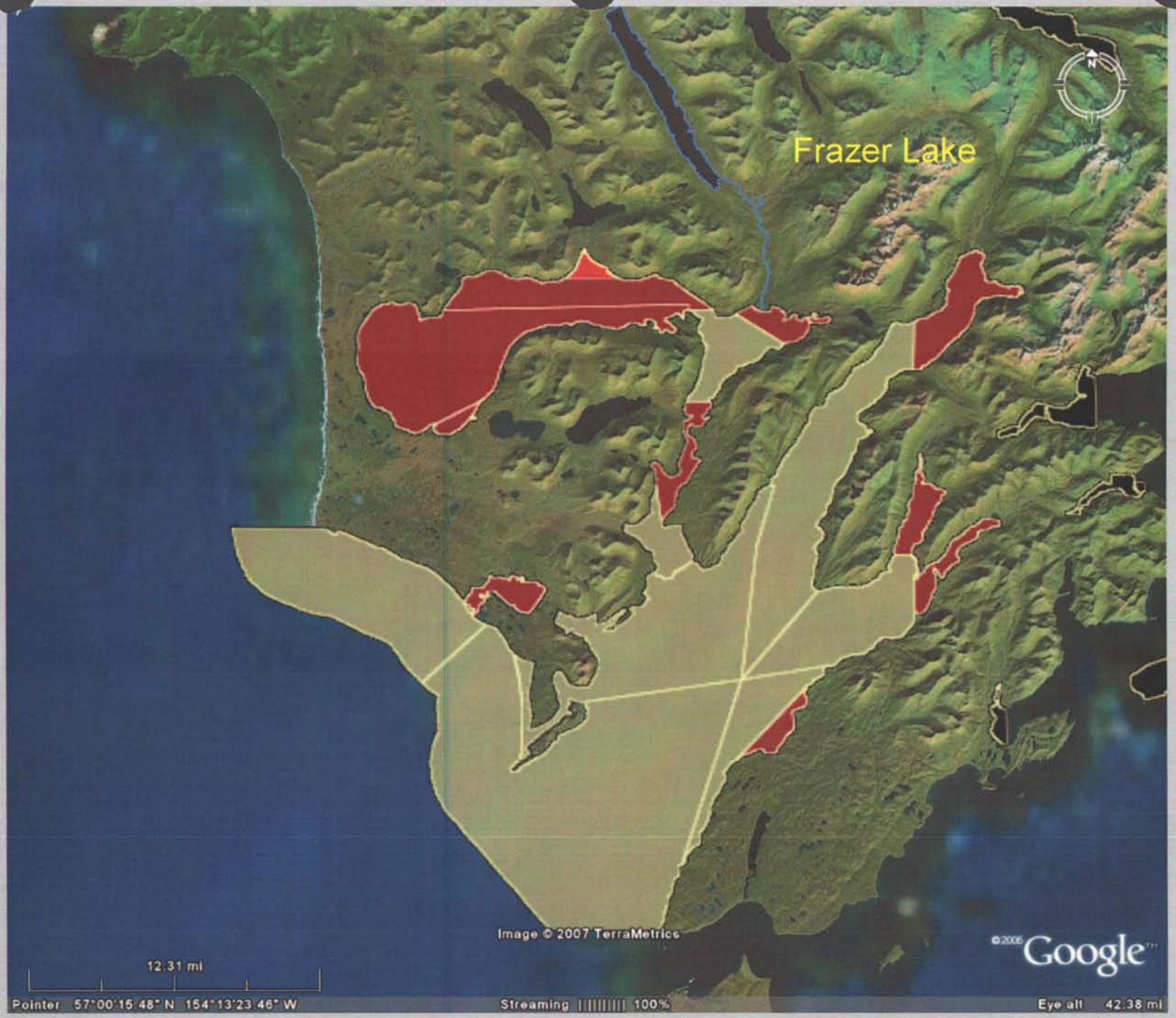

Kodiak Management Area commercial salmon permits
Total available permits = 608
1998-2007 avg. active permits = 342
168 Purse Seine
158 Gillnet
< 4 Beach Seine
Number of Permits
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
Purse Seine
Gillnet
Beach Seine
Type of permit

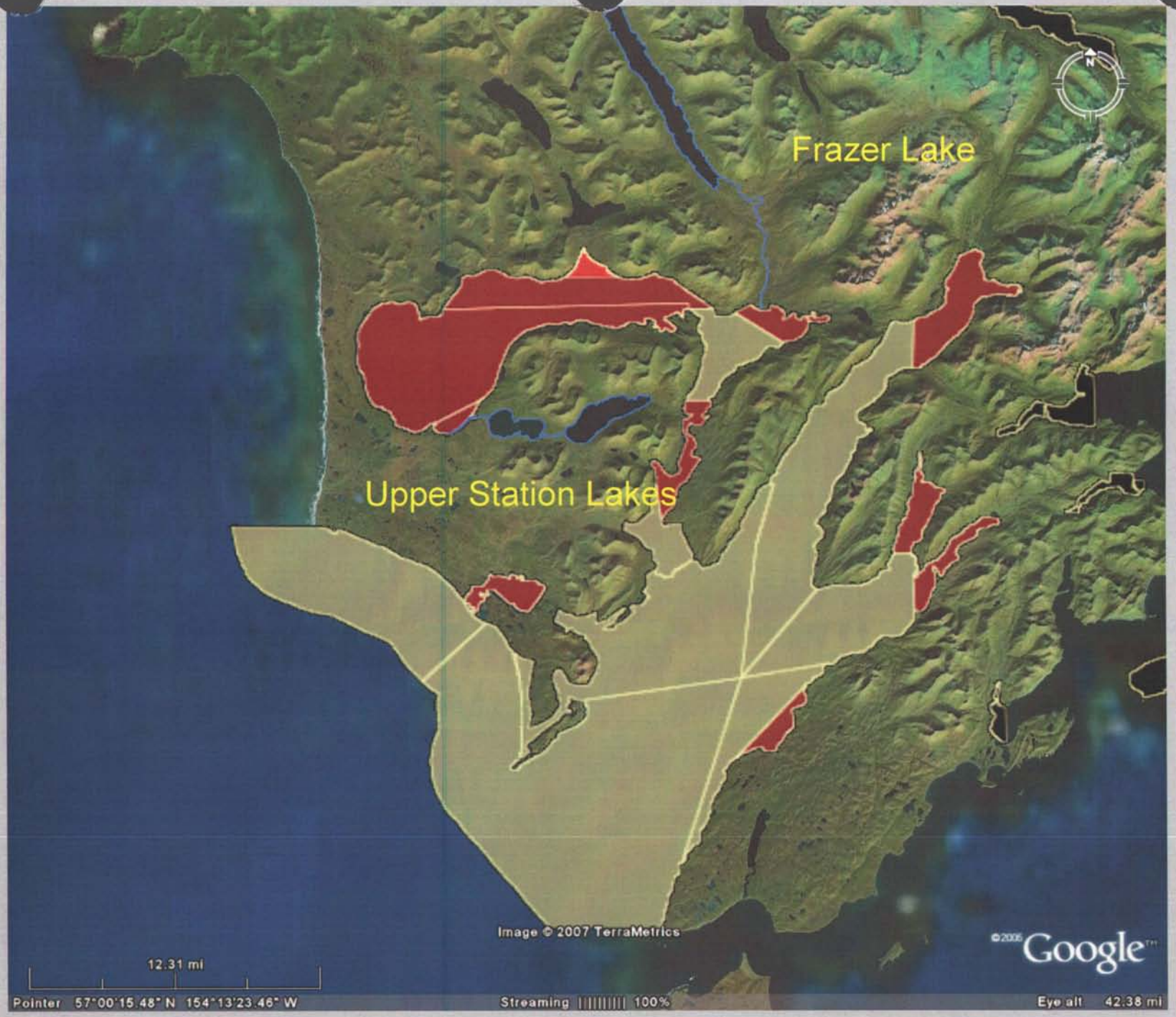

Number of Active (Fished) Commercial Salmon Permits
Purse Seine
Set Gillnet
Beach Seine
Number of Permits
400
350
300
250
200
150
100
50
0
1978
1980
1982
1984
1986
1988
1991
1993
1995
1997
1999
2001
2003
2005
2007
Year

Exvessel value of the commercial salmon fishery, by species, in the Kodiak Management Area, 1978-2007

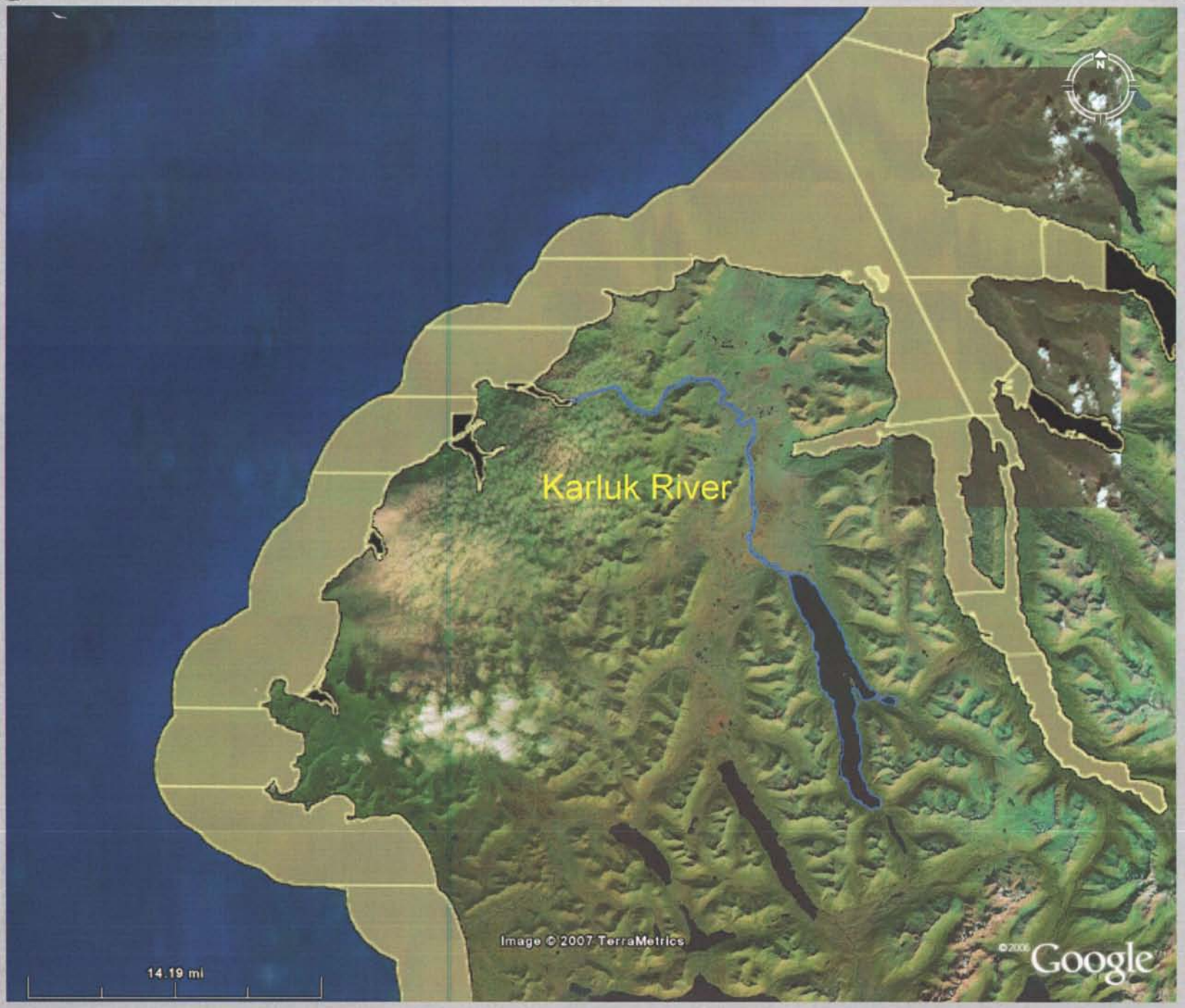


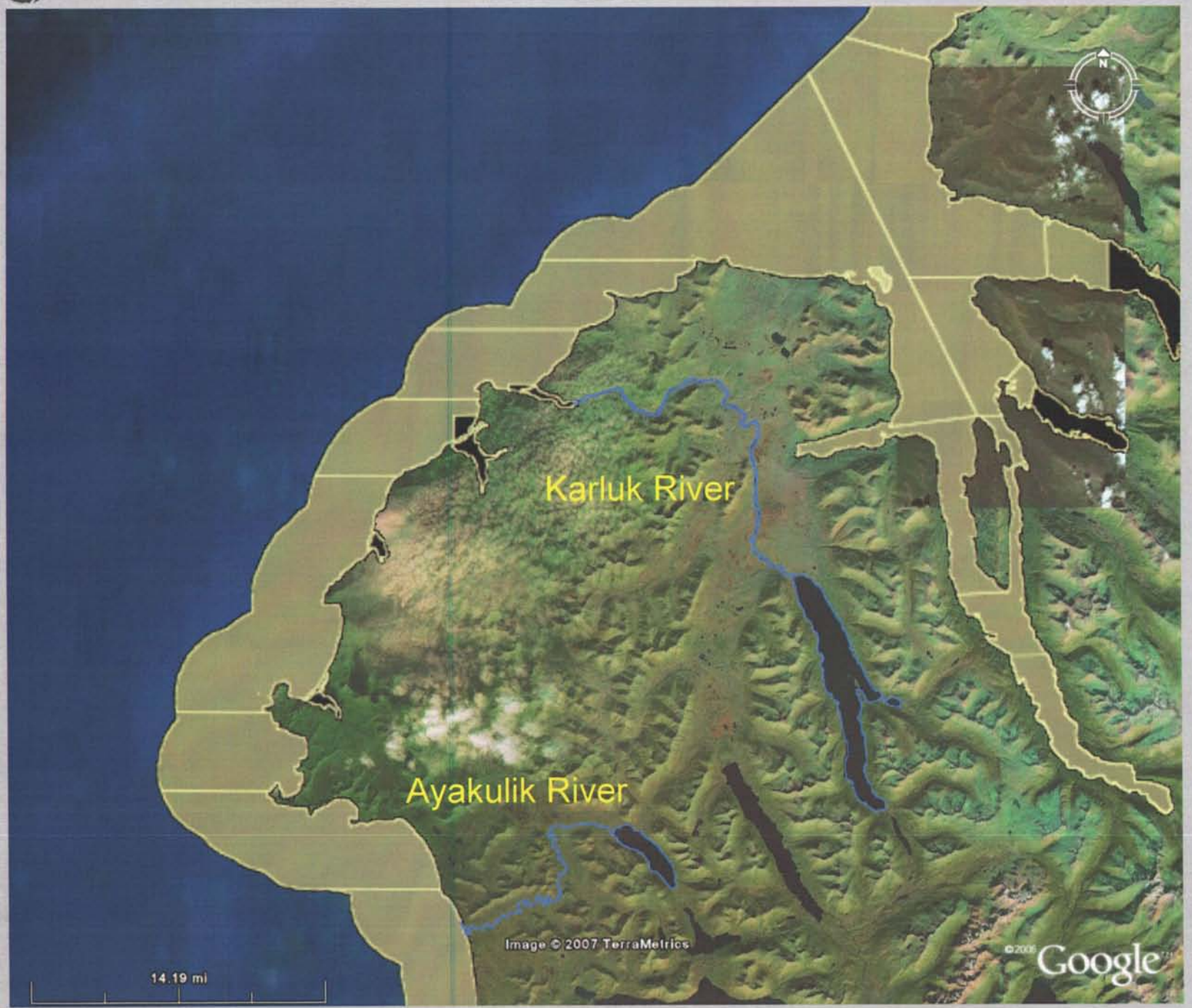

Alitak District
Image © 2007 TerraMetrics
12.31 mi
©2006 Google

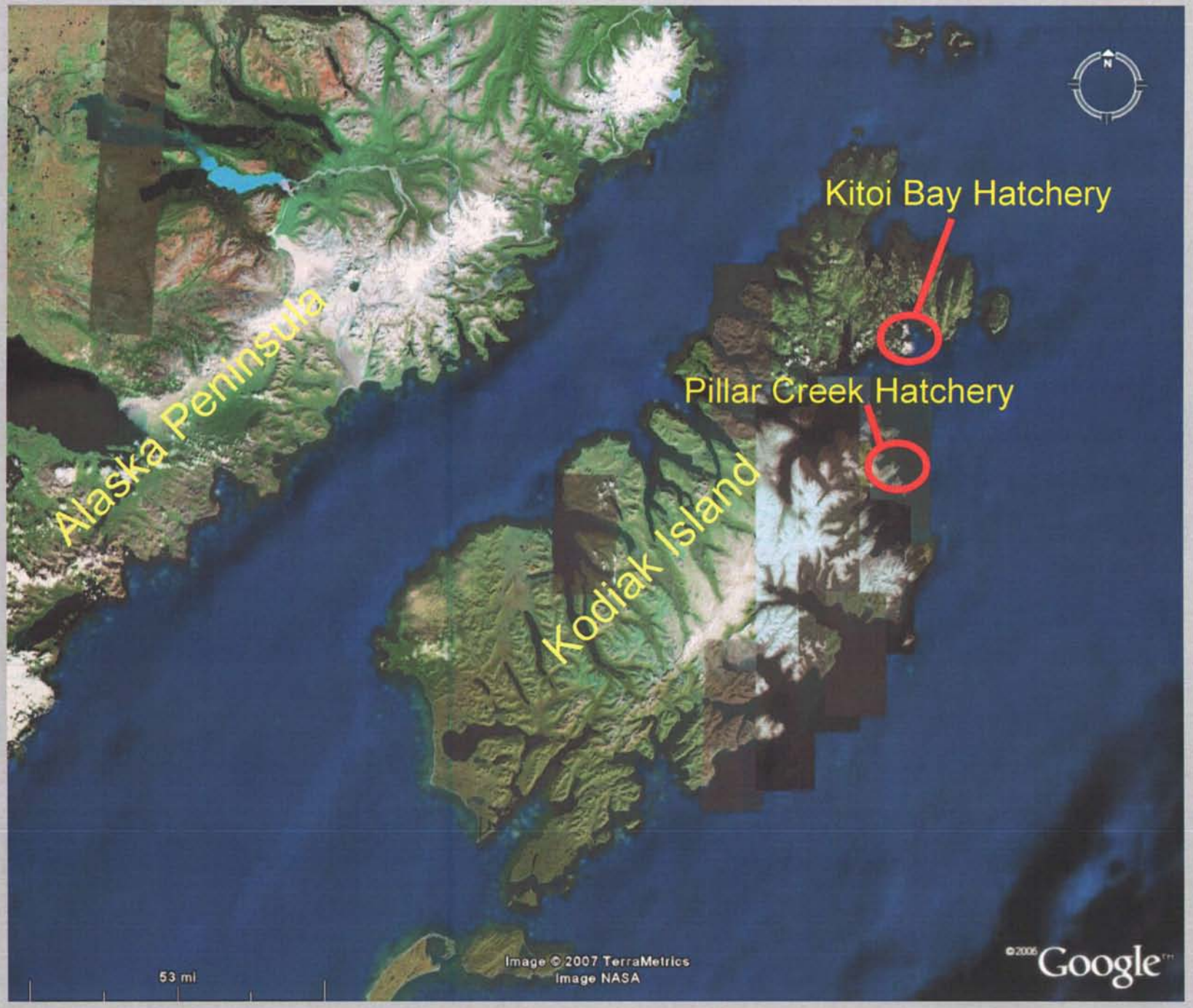

Frazer Lake
Image © 2007 TerraMetrics
12.31 mi
Pointer 57°00'15.48" N 154°13'23.46" W
Streaming 100%
Eye alt 42.38 mi
©2006 Google


Frazer Lake
Upper Station Lakes
Image © 2007 TerraMetrics
12.31 mi
Pointer 57°00'15.48" N 154°13'23.46" W
Streaming 100%
Eye alt 42.38 mi
Google

Southwest Kodiak
District
Image © 2007 TerraMetrics
14.19 mi
Google


Karluk River
Image © 2007 TerraMetrics
14.19 mi
Google


Karluk River
Ayakulik River
Image © 2007 TerraMetrics
14.19 mi
Google


Kitoi Bay Hatchery
Pillar Creek Hatchery
Alaska Peninsula
Kodiak Island
53 mi
Image © 2007 TerraMetrics
Image NASA
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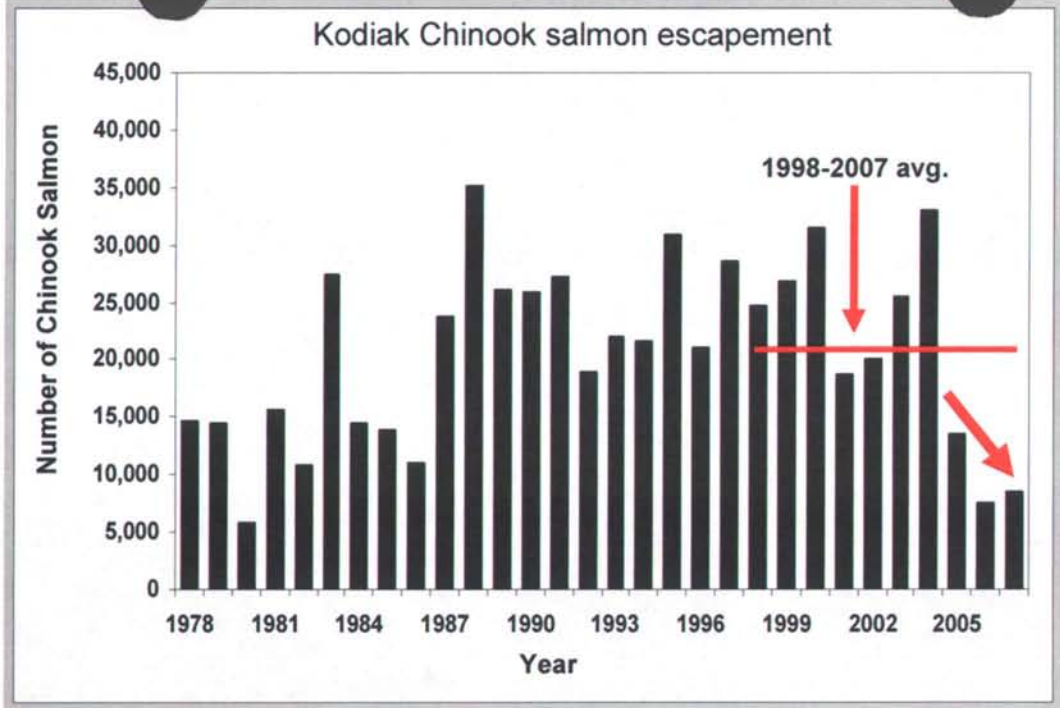
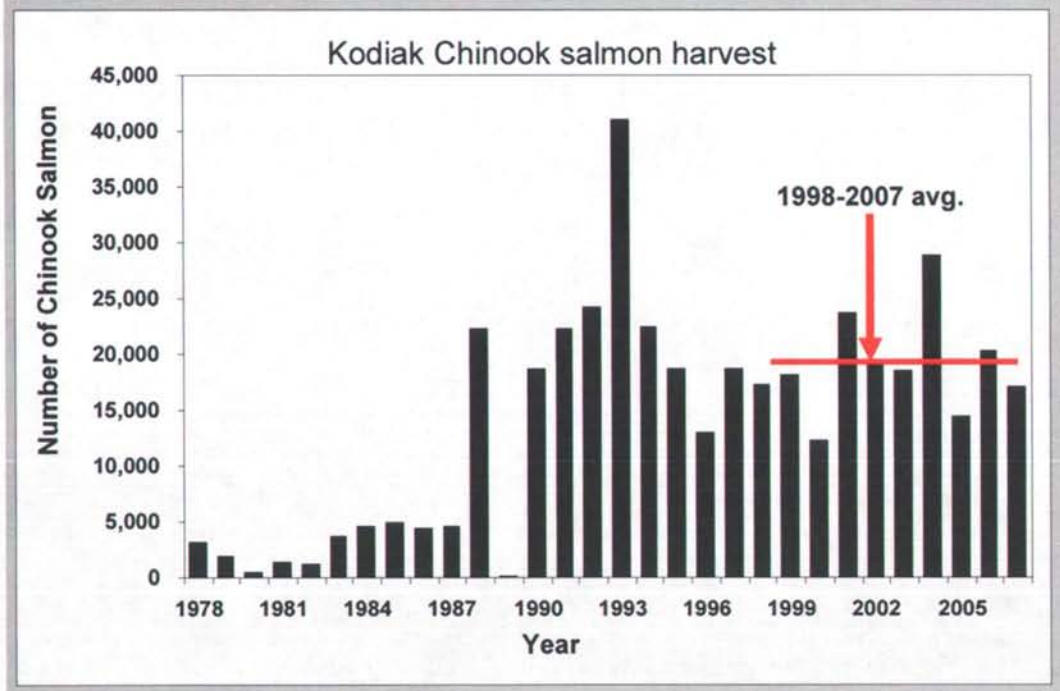
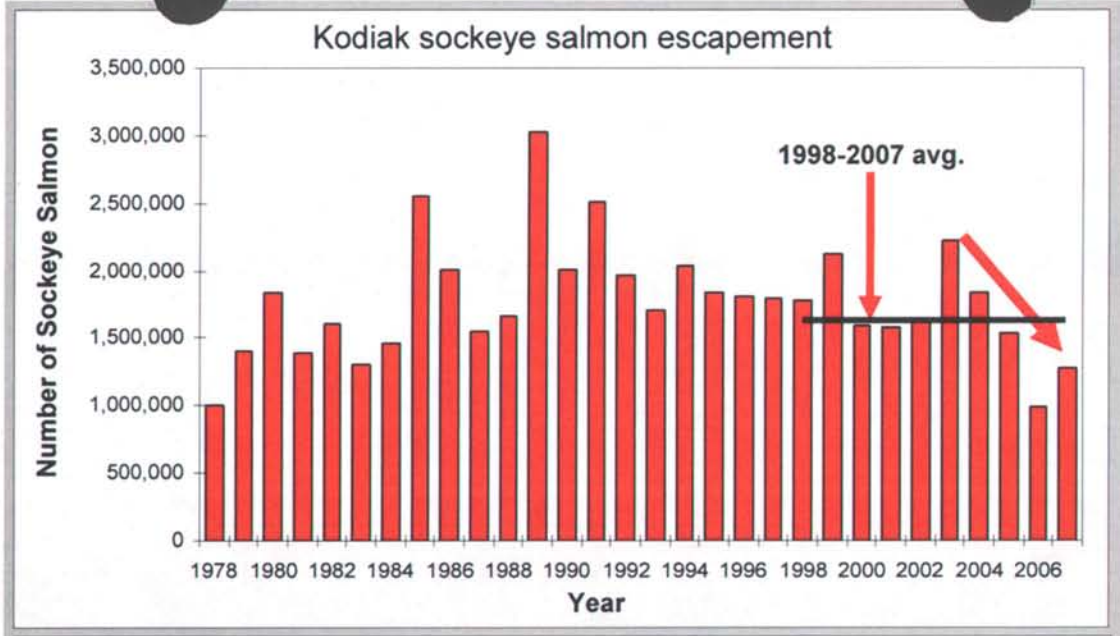


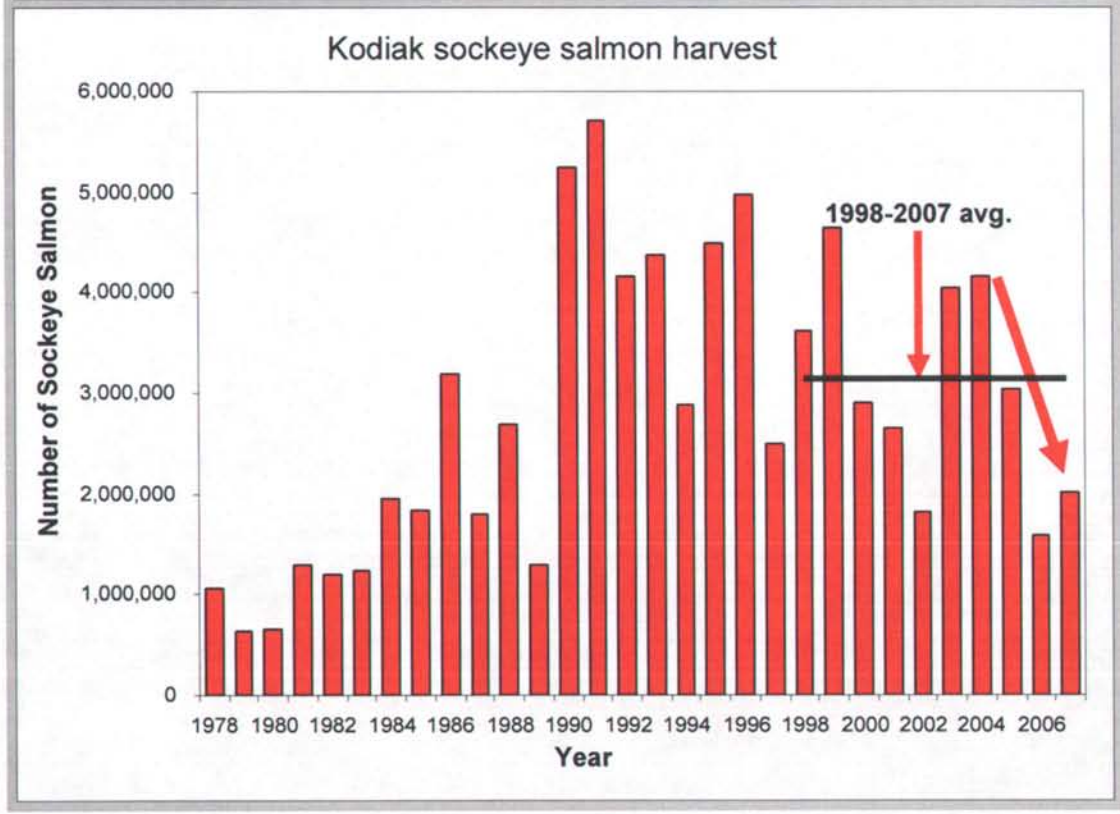


- **KODIAK CHINOOK SALMON <u>ESCAPEMENT</u>**
- **1998-2007 avg. 21,000**
- **Decline beginning in 2005**
- **Lowest levels since 1980s**

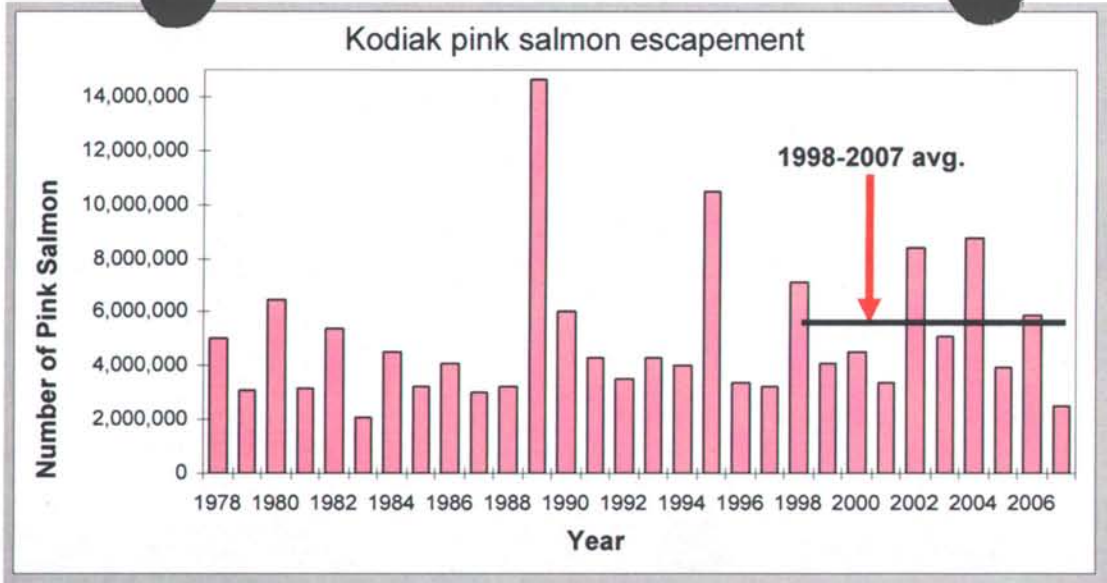
- **KODIAK CHINOOK SALMON <u>HARVEST</u>**
- **Harvests increased beginning in late 1980s**
- **1998-2007 avg. 19,000**



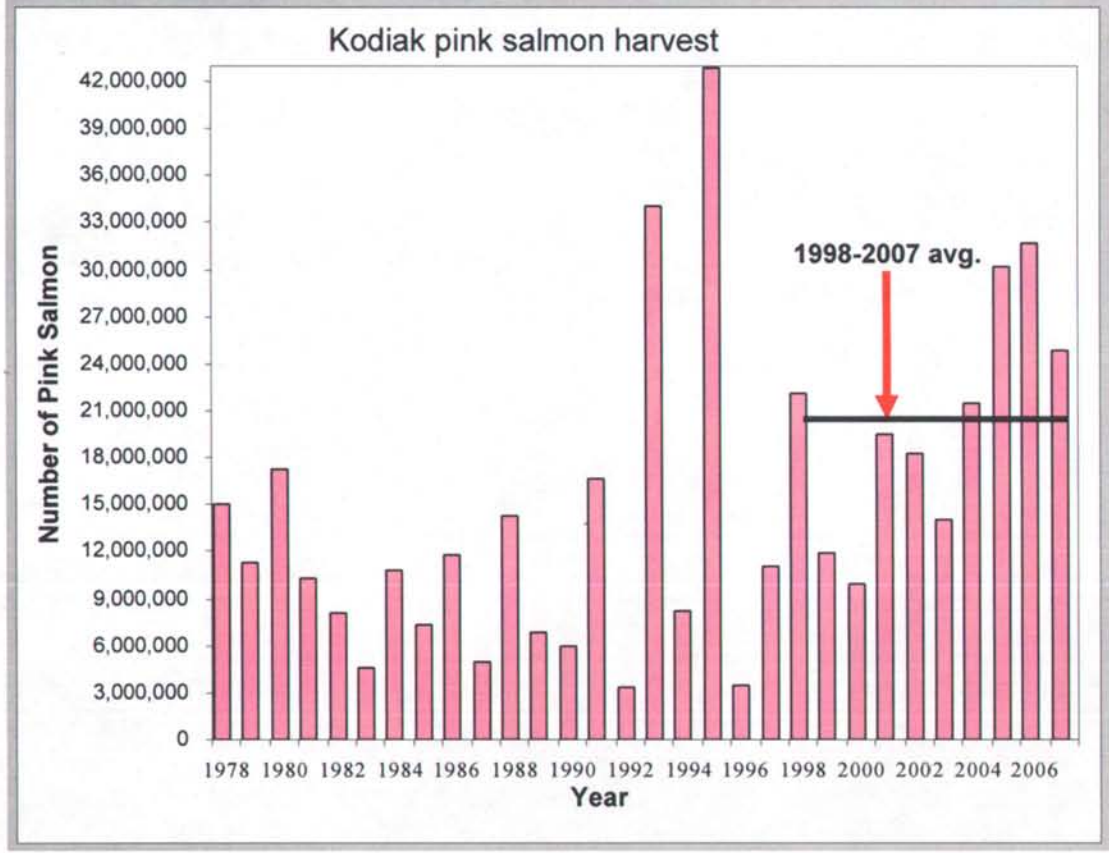
- **KODIAK SOCKEYE SALMON ESCAPEMENT**
- **Decline in escapements since 2004**
- **1998-2007 avg. 1,650,000**



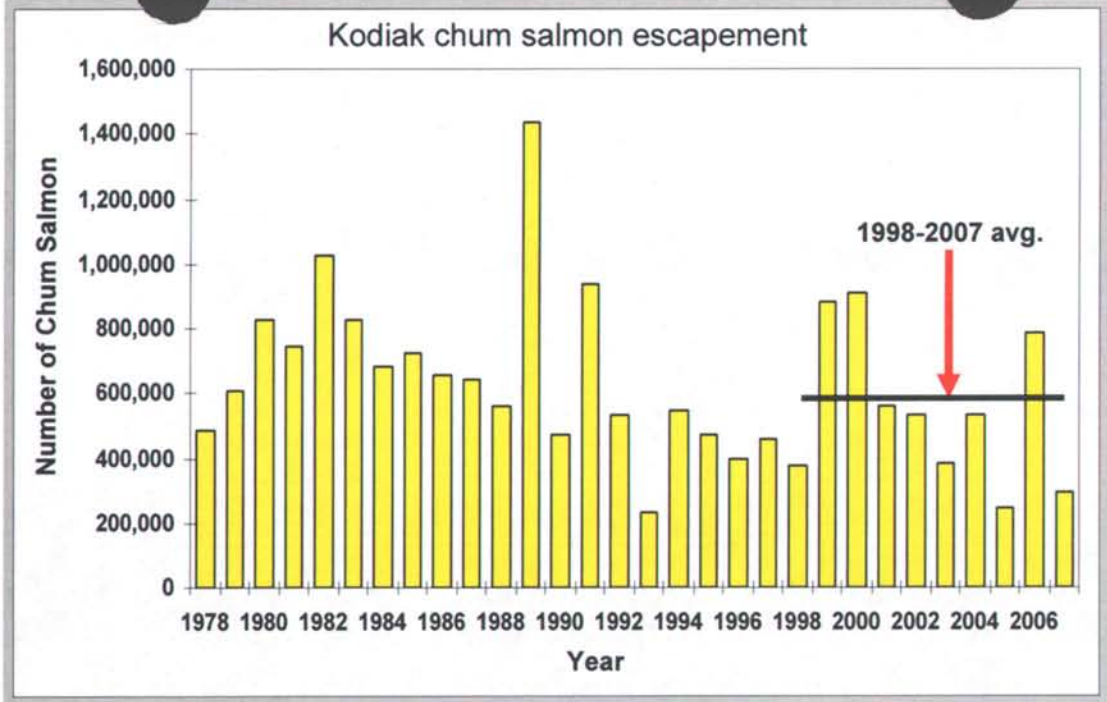
- **KODIAK SOCKEYE SALMON HARVEST**
- **Decline in harvest since 2004**
- **1998-2007 avg. 3,000,000**

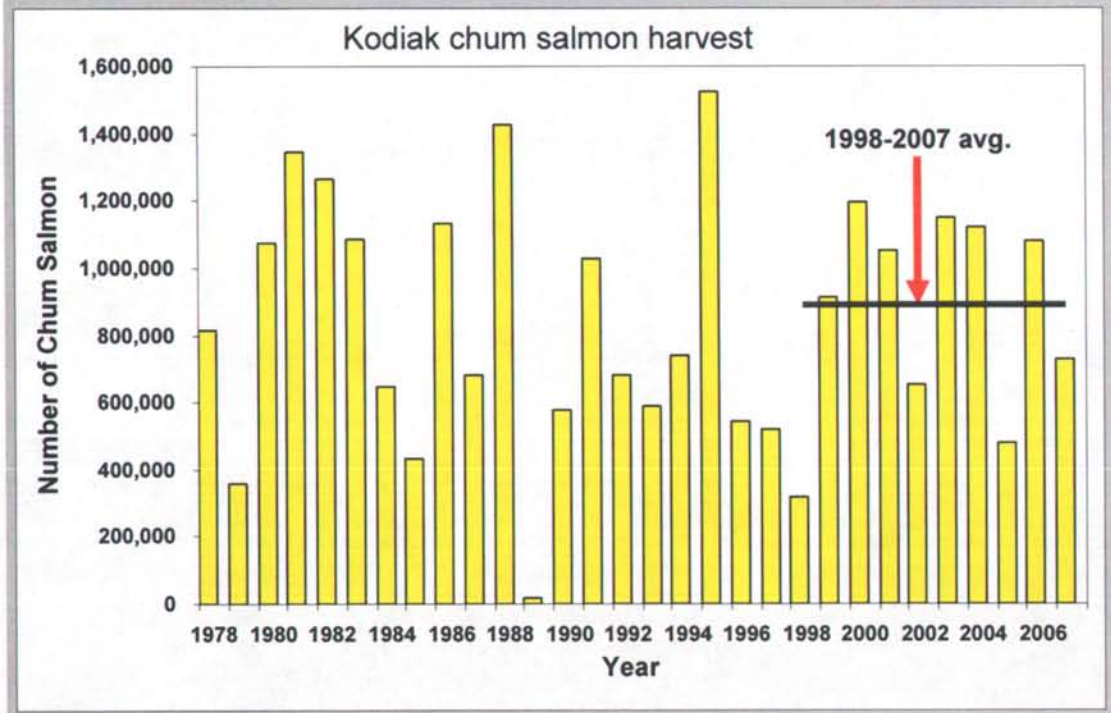


- **KODIAK PINK SALMON ESCAPEMENT**
- **Variable; Odd- versus Even-Year Production**
- **1998-2007 avg. 5,400,000**



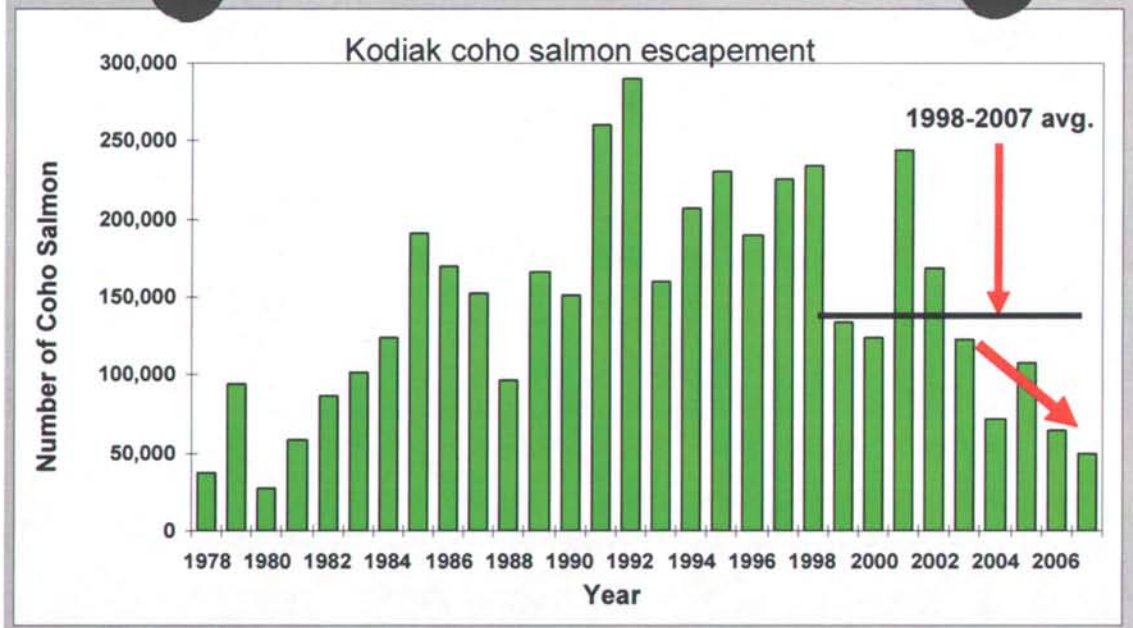
- **KODIAK PINK SALMON HARVEST**
- **Recent high levels 2004-2007**
- **1998-2007 avg. 20,400,000**

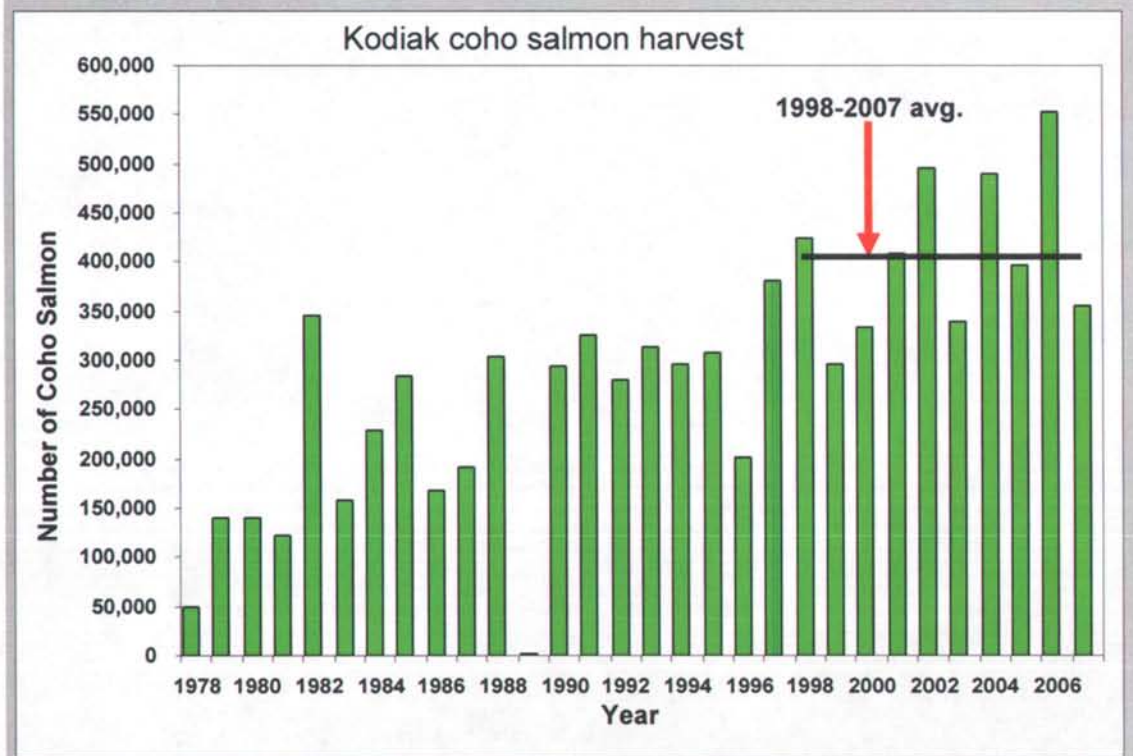




- **KODIAK CHUM SALMON <u>ESCAPEMENT</u>**
- **1998-2007 avg. 550,000**

- **KODIAK CHUM SALMON <u>HARVEST</u>**
- **1998-2007 avg. 869,000**





- **KODIAK COHO SALMON <u>ESCAPEMENT</u>**
- **1998-2007 avg. 132,000**
- **Recent years well below the 1998-2007 average**

- **KODIAK COHO SALMON <u>HARVEST</u>**
- **Record harvest in 2006 due to increased interest with late season coho.**
- **1998-2007 avg. 409,000**

Proposals to be discussed in Committees B and C

Committee B – KMA Herring, Subsistence and General Salmon

- Proposals 44 – 45 Subsistence issues
  - Proposal 44 would limit subsistence gear to one half the wetted width of a freshwater stream.
  - Proposal 45 would eliminate the harvest limits on subsistence salmon permits in a portion of the Kodiak Management Area.
  - ADFG submitted and supports these proposals

Committee B – KMA Herring, Subsistence and General Salmon

- Proposals 46 – 50 Boundary line corrections, placing closed waters into regulation, and allowing earlier practice sets for seine gear
  - ADFG submitted and supports these proposals

Committee B – KMA Herring, Subsistence and General Salmon

- Proposal 58 Gillnet specifications and operation. This proposal would allow a set gillnet fisherman to own and operate two CFEC permits.
  - ADFG is NUETRAL on the allocative aspects of this proposal.

Committee B – KMA Herring, Subsistence and General Salmon

- Proposal 59 This proposal would allow the use of power and/or hand trolls as legal commercial salmon gear in the Kodiak Management Area.
  - ADFG is NEUTRAL on the allocative aspects of this proposal. The department is OPPOSED to this proposal, until such time as the potential increase in gear and effort, the uncertainty of effects of such a fishery on local and non-local stocks are more fully explored and addressed, and the complexity of the effects of this proposal with regard to the Pacific Salmon Treaty is addressed.

Committee C – KMA Commercial Salmon- Westside, Shelikof, and Alitak Management

- Proposal 51 and 52 Westside Kodiak Salmon Management Plan not allowing a commercial fishery until after June 15.
  - Department OPPOSES these proposals due to biological concerns of sockeye salmon overescapement into the Karluk system.

Committee C – KMA Commercial Salmon- Westside, Shelikof, and Alitak Management

- Proposal 53 recommends changing the Cape Igvak Sections 15% allocation of the total Chignik Area bound sockeye salmon harvest to a 19.0% allocation of the Chignik Area sockeye salmon harvest.
  - ADFG is NUETRAL on the allocative aspects of this proposal.

Committee C – KMA Commercial Salmon- Westside, Shelikof, and Alitak Management

- PROPOSALS 54 and 55 North Shelikof Strait sockeye salmon management plan.
  - ADFG is NUETRAL on the allocative aspects of these proposals. However, the department is OPPOSED to unusually complicated and burdensome management plans and is OPPOSED to regulations based on preseason forecasts.

Questions?