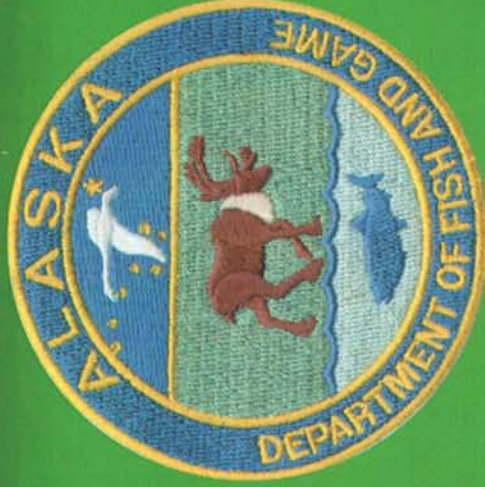


Oral Report to the Alaska Board of Fisheries 2008

Review of Salmon Escapement Goals in the Kodiak Management Area



by
Steven G. Honnold
January 2008

Oral Report:
RC 2, Tab 7
Written Report:
RC 2, Tab 18

Presentation Objectives

- Introduce the policies behind the escapement goal review
- Describe the formation and purpose of the Kodiak Escapement Goal Review Team
- Identify the salmon stocks in Kodiak Management Area that were reviewed by the team
- List the methods used during the escapement goal review process
- Present the escapement goal recommendations

Escapement Goal Review

This review was based on:

- Policy for the Management of Sustainable Salmon Fisheries (SSFP; 5 AAC 39.222)
- Policy for Statewide Salmon Escapement Goals (5 AAC 39.223)

Two important terms defined in the SSFP are:

- *biological escapement goal (BEG)*
- *sustainable escapement goal (SEG)*

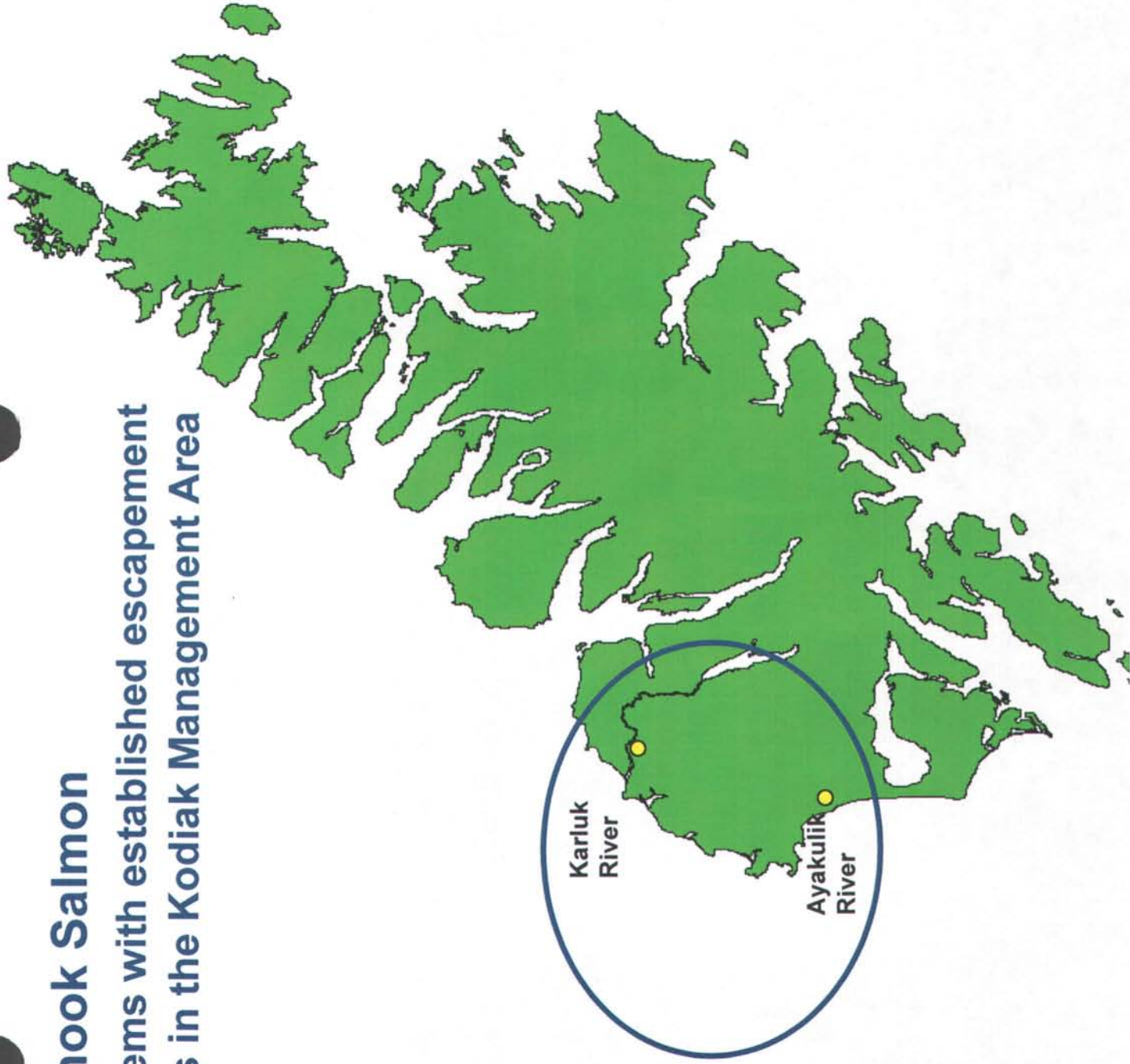
Kodiak Escapement Goal Review Team

Purpose (for each salmon stock or stock-aggregates):

- Determine goal type: BEG or SEG
- Determine appropriate methods
- Estimate goal and compare to current goal
- Determine if a goal could be developed for any stocks or stock-aggregates that do not currently have a goal
- Develop goal recommendations and present to the Directors of Divisions of Commercial Fisheries and Sport Fish

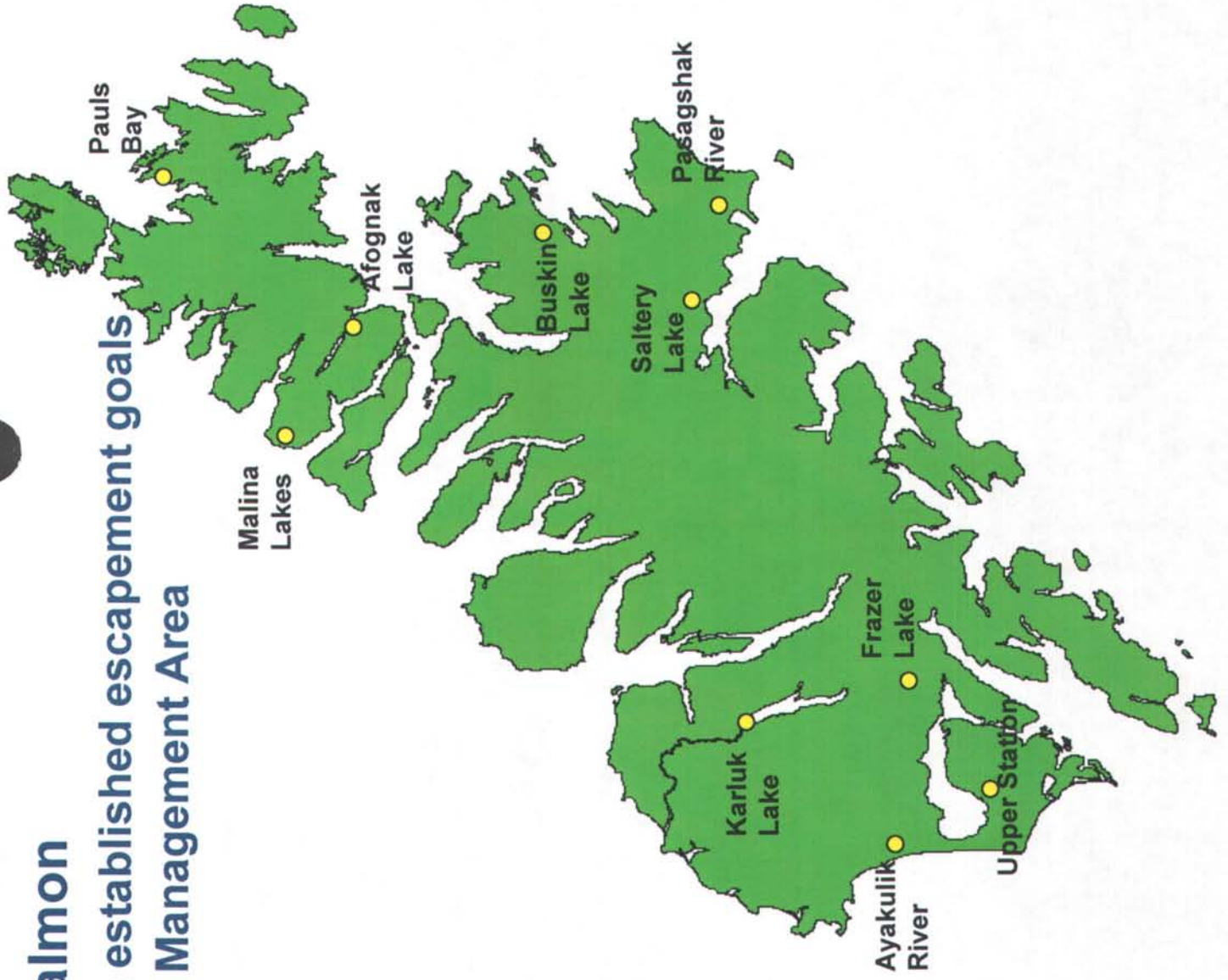
Chinook Salmon

Systems with established escapement goals in the Kodiak Management Area



Sockeye Salmon

Systems with established escapement goals
in the Kodiak Management Area



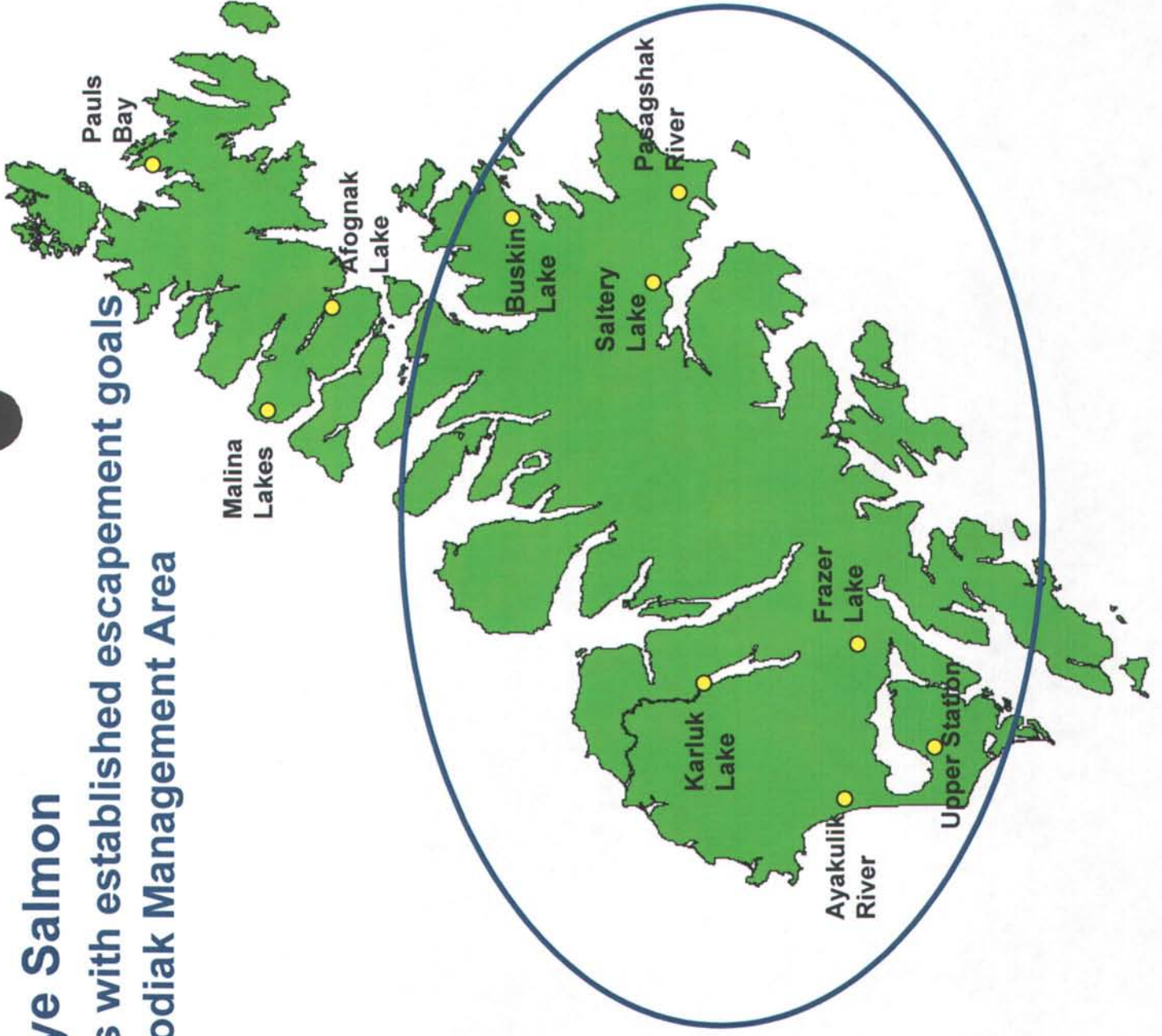
Sockeye Salmon

Systems with established escapement goals
in the Kodiak Management Area



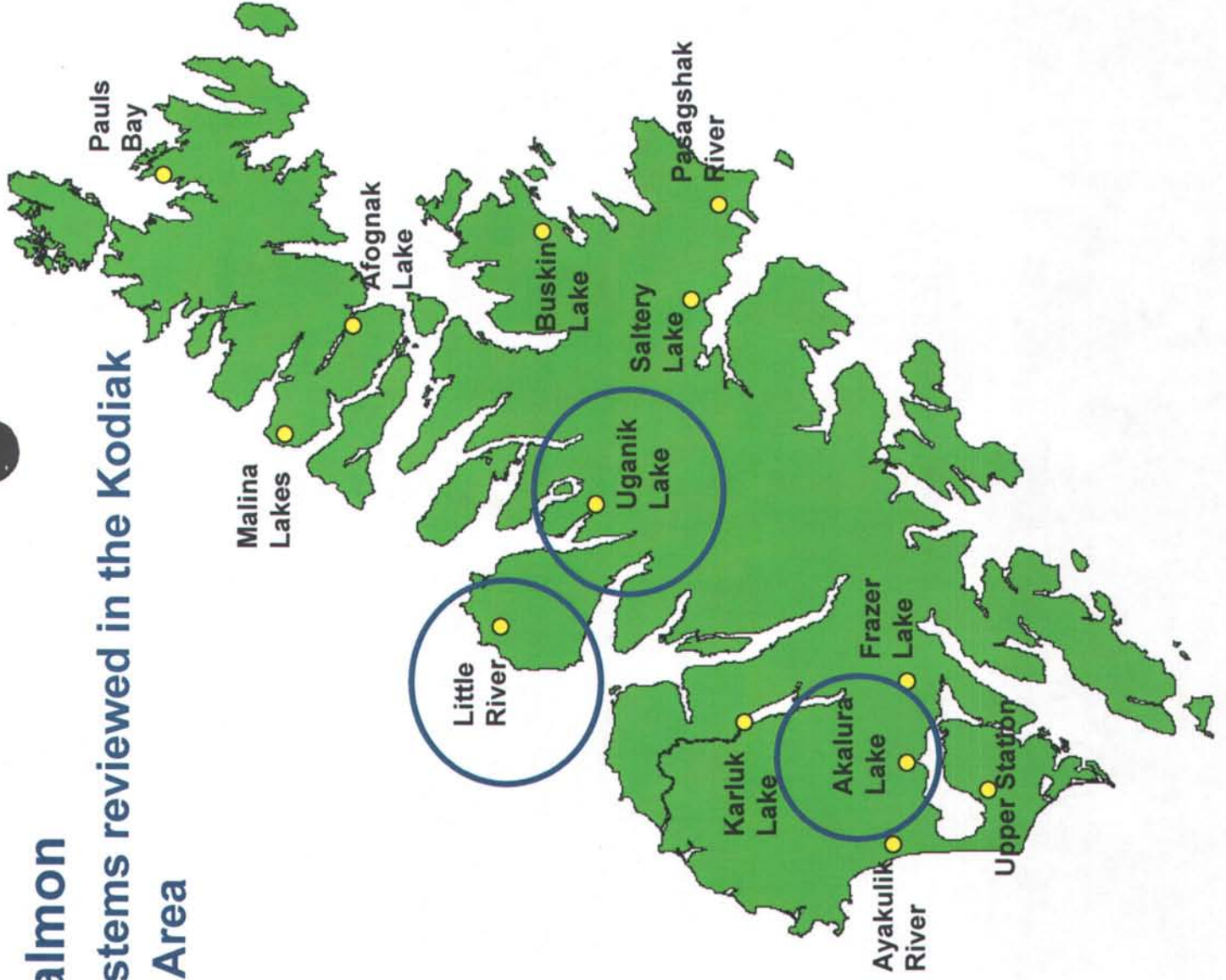
Sockeye Salmon

Systems with established escapement goals
in the Kodiak Management Area



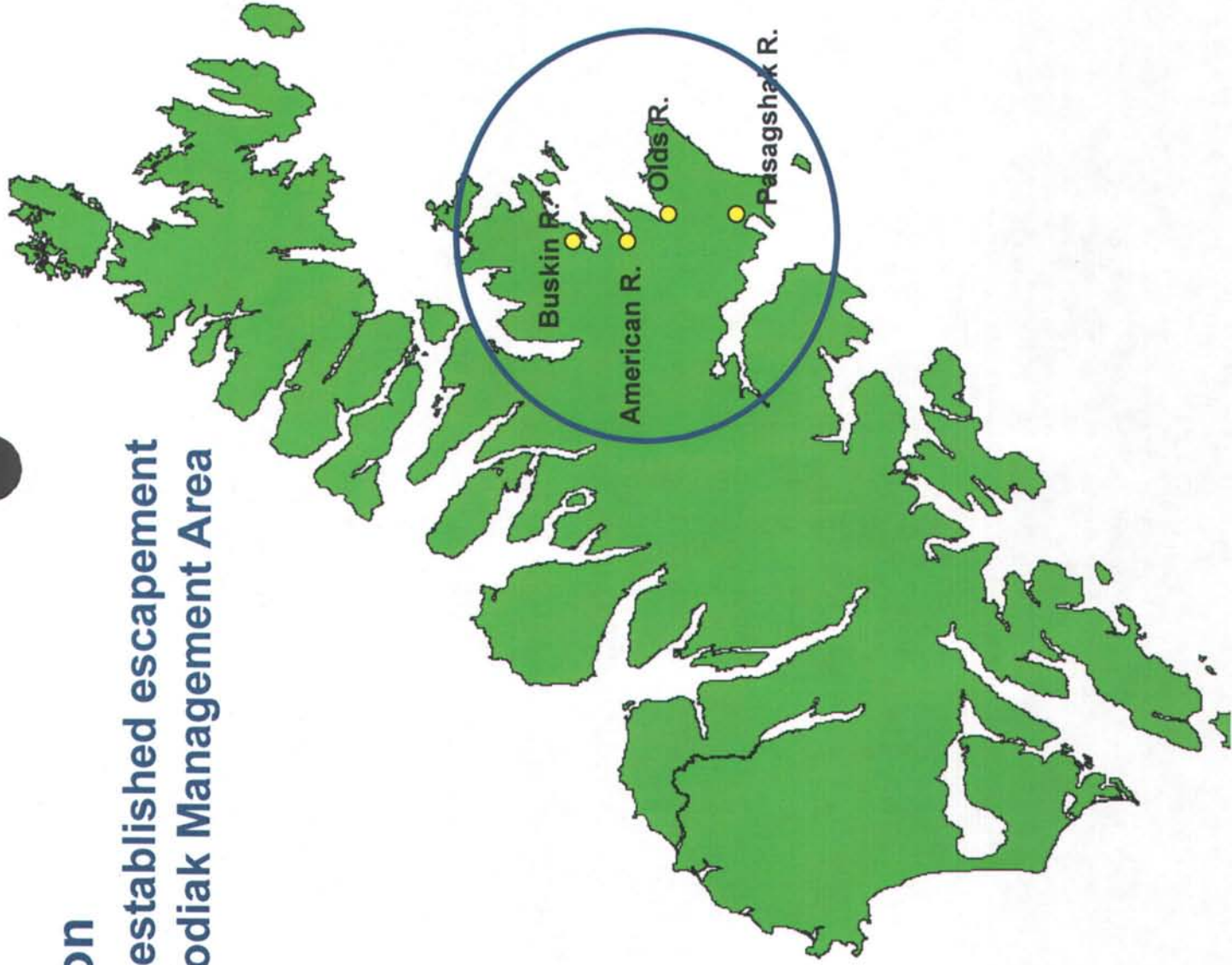
Sockeye Salmon

Additional systems reviewed in the Kodiak Management Area



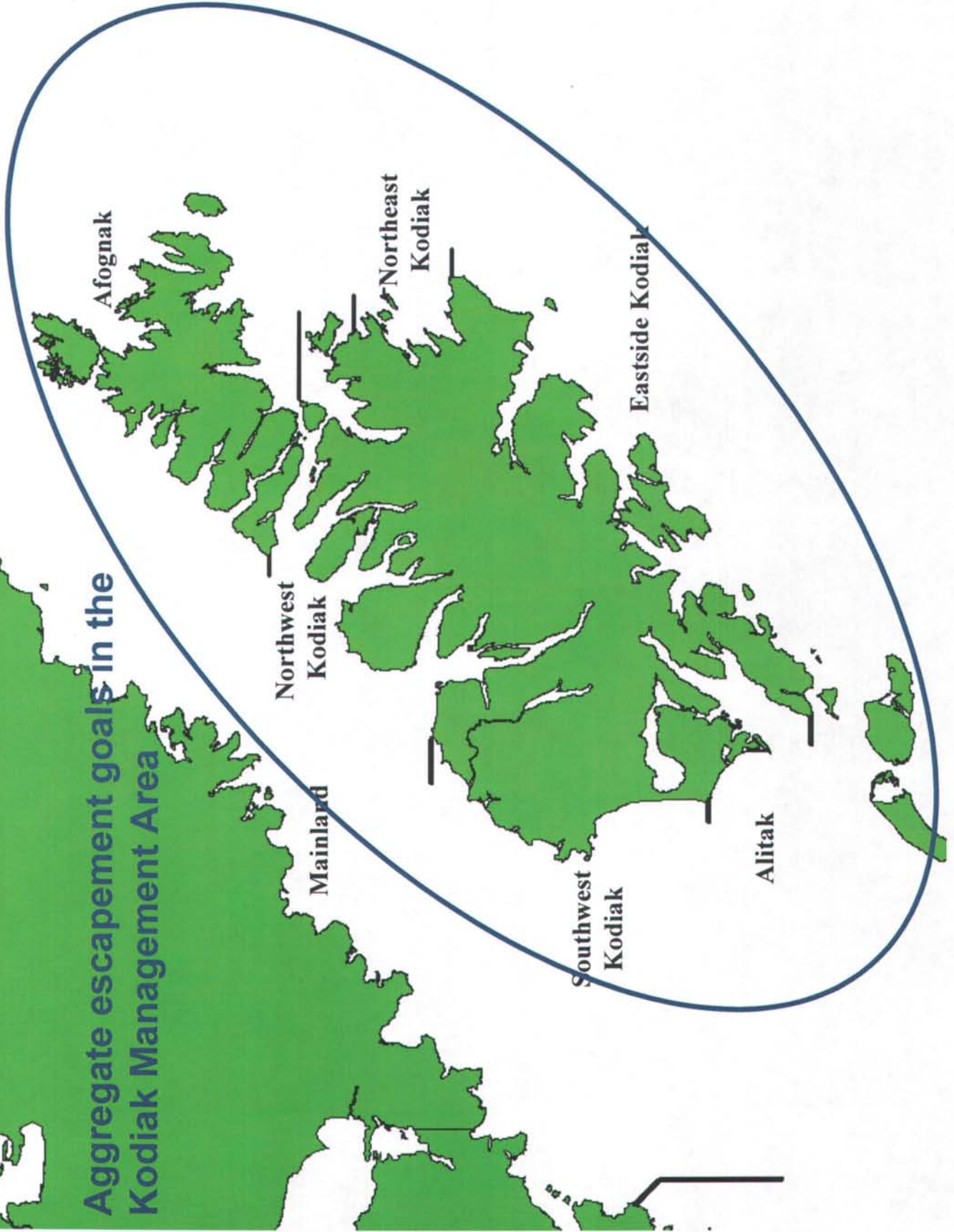
Coho Salmon

Systems with established escapement goals in the Kodiak Management Area



Pink Salmon

Aggregate escapement goals in the Kodiak Management Area



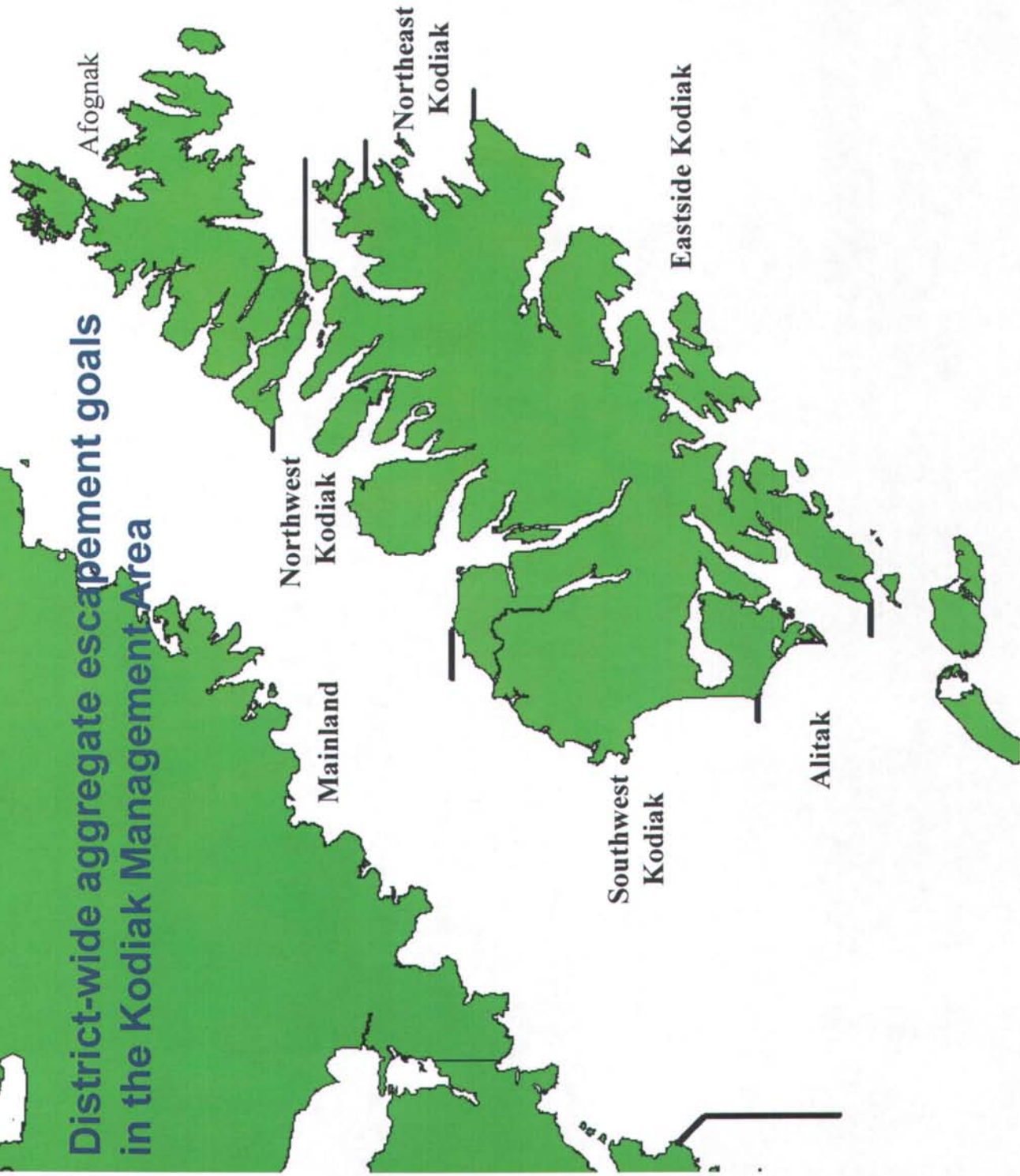
Pink Salmon

Aggregate escapement goals in the Kodiak Management Area



Chum Salmon

District-wide aggregate escapement goals in the Kodiak Management Area



Methods

Biological Escapement Goals (BEGs)

- **Spawner-recruit analysis**
- **Auxiliary analyses**

Sustainable Escapement Goals (SEGs)

- **Percentile approach**
- **Risk analysis**

Kodiak Management Area Escapement Goal Review

Comprehensive review of 26 Existing Salmon Escapement Goals

Consensus of Team:

- No Change to 16 goals
- Change 4 goals

Reclassify 1 of 4 goals

- Eliminate 6 goals
- Establish 3 new goals

Chinook Salmon

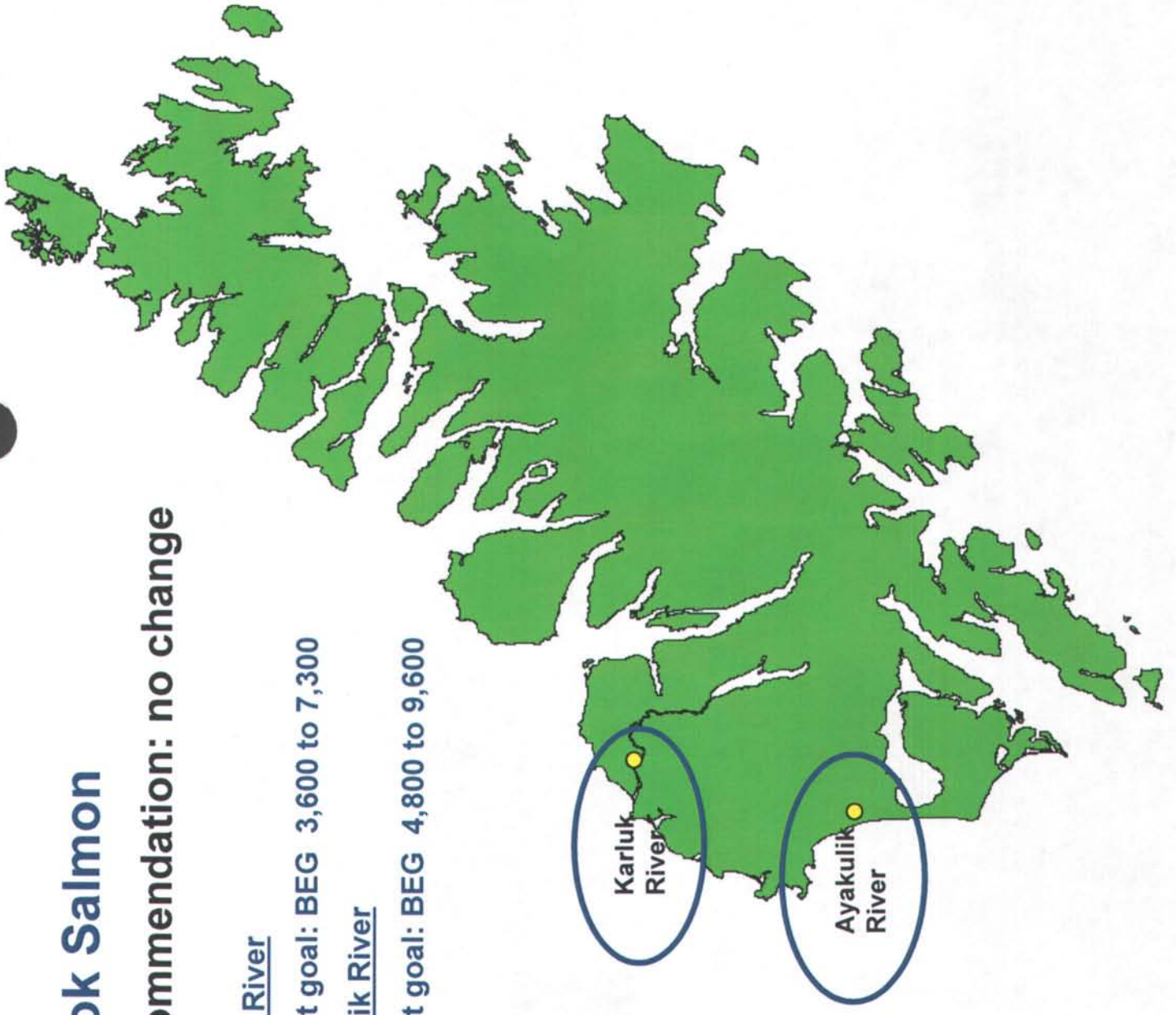
Recommendation: no change

Karluk River

Current goal: BEG 3,600 to 7,300

Ayakulik River

Current goal: BEG 4,800 to 9,600



Sockeye Salmon

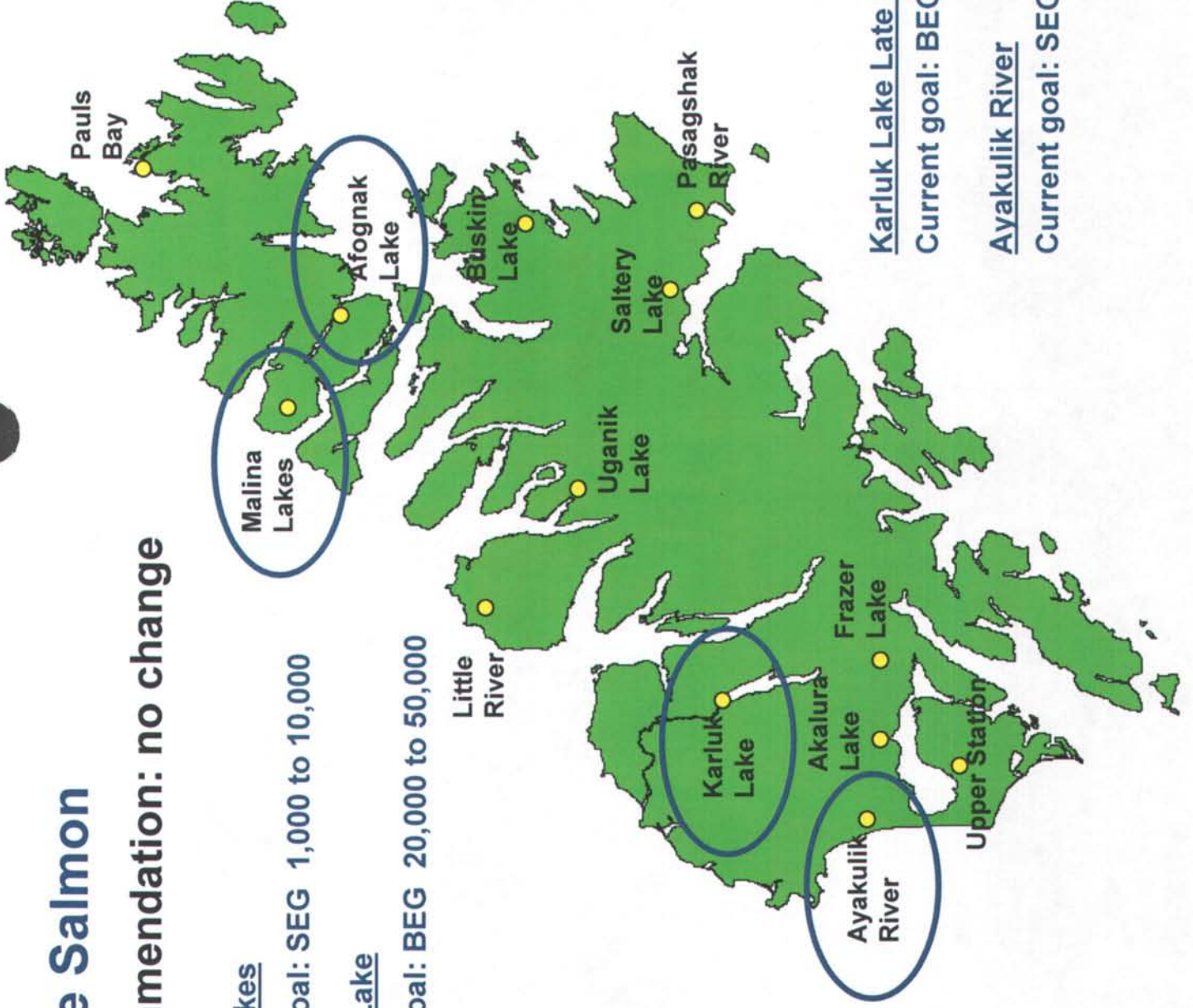
Recommendation: no change

Malina Lakes

Current goal: SEG 1,000 to 10,000

Afognak Lake

Current goal: BEG 20,000 to 50,000



Karluk Lake Late Run

Current goal: BEG 170,000 to 380,000

Ayakulik River

Current goal: SEG 200,000 to 500,000

Sockeye Salmon

Recommendation: no change

Upper Station Early Run

Current goal: SEG 30,000 to 65,000

Upper Station Late Run

Current goal: BEG 120,000 to 265,000

Akalura Lake

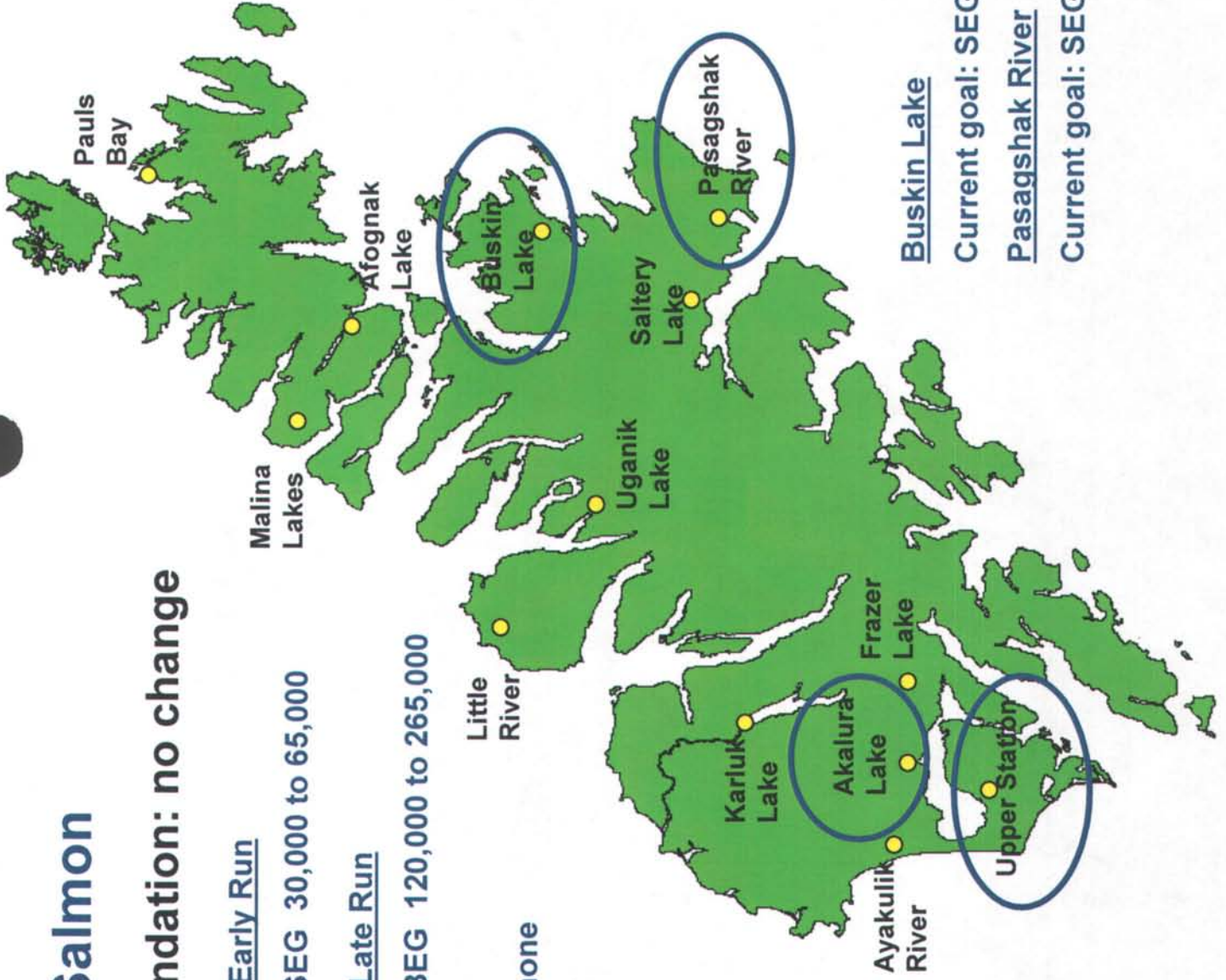
Current goal: none

Buskin Lake

Current goal: SEG 8,000 to 13,000

Pasagshak River

Current goal: SEG 3,000 to 12,000



Sockeye Salmon

Recommendation: change goals

Karluk Lake Early Run

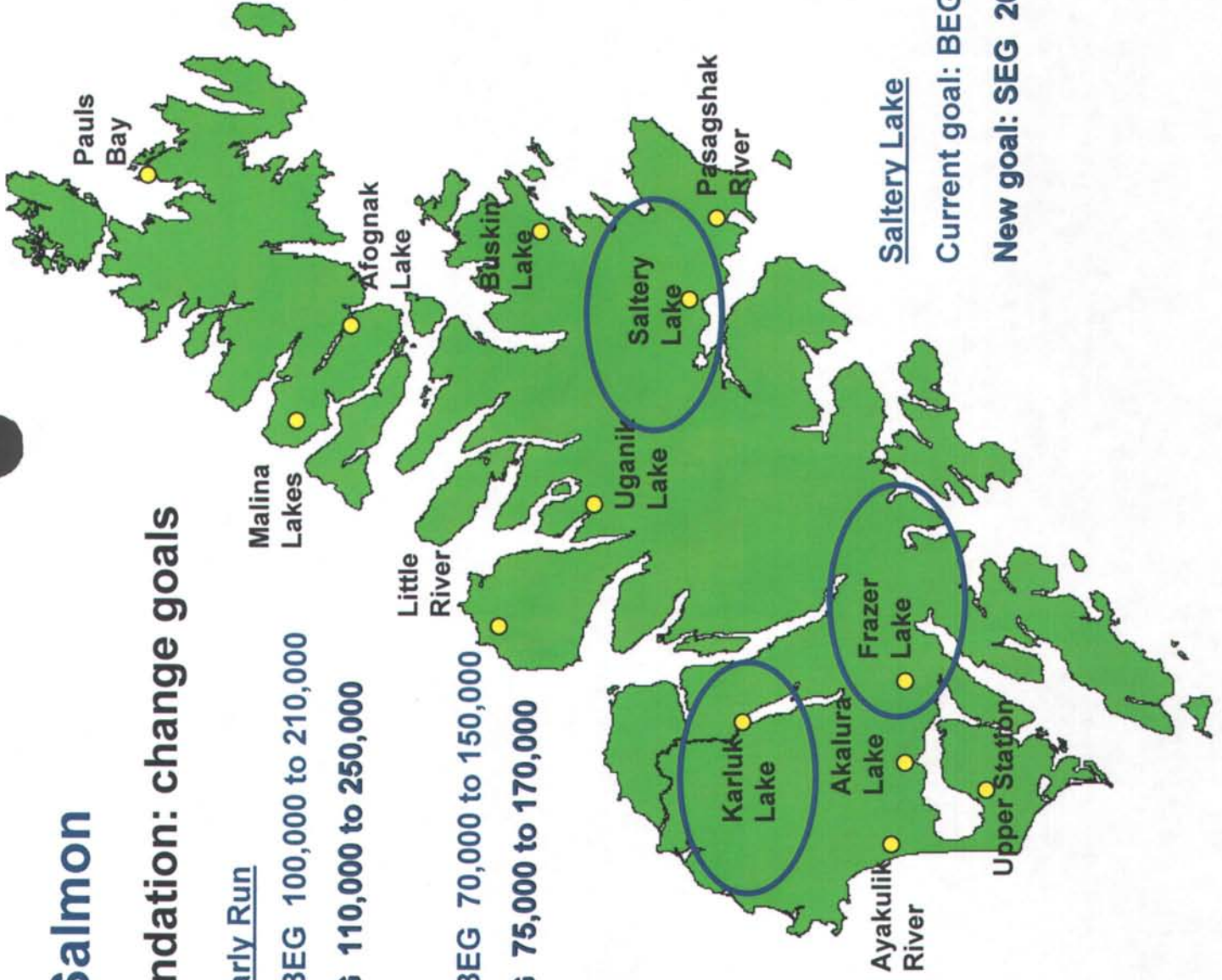
Current goal: BEG 100,000 to 210,000

New goal: BEG 110,000 to 250,000

Frazer Lake

Current goal: BEG 70,000 to 150,000

New goal: BEG 75,000 to 170,000



Saltery Lake

Current goal: BEG 15,000 to 30,000

New goal: BEG 20,000 to 50,000

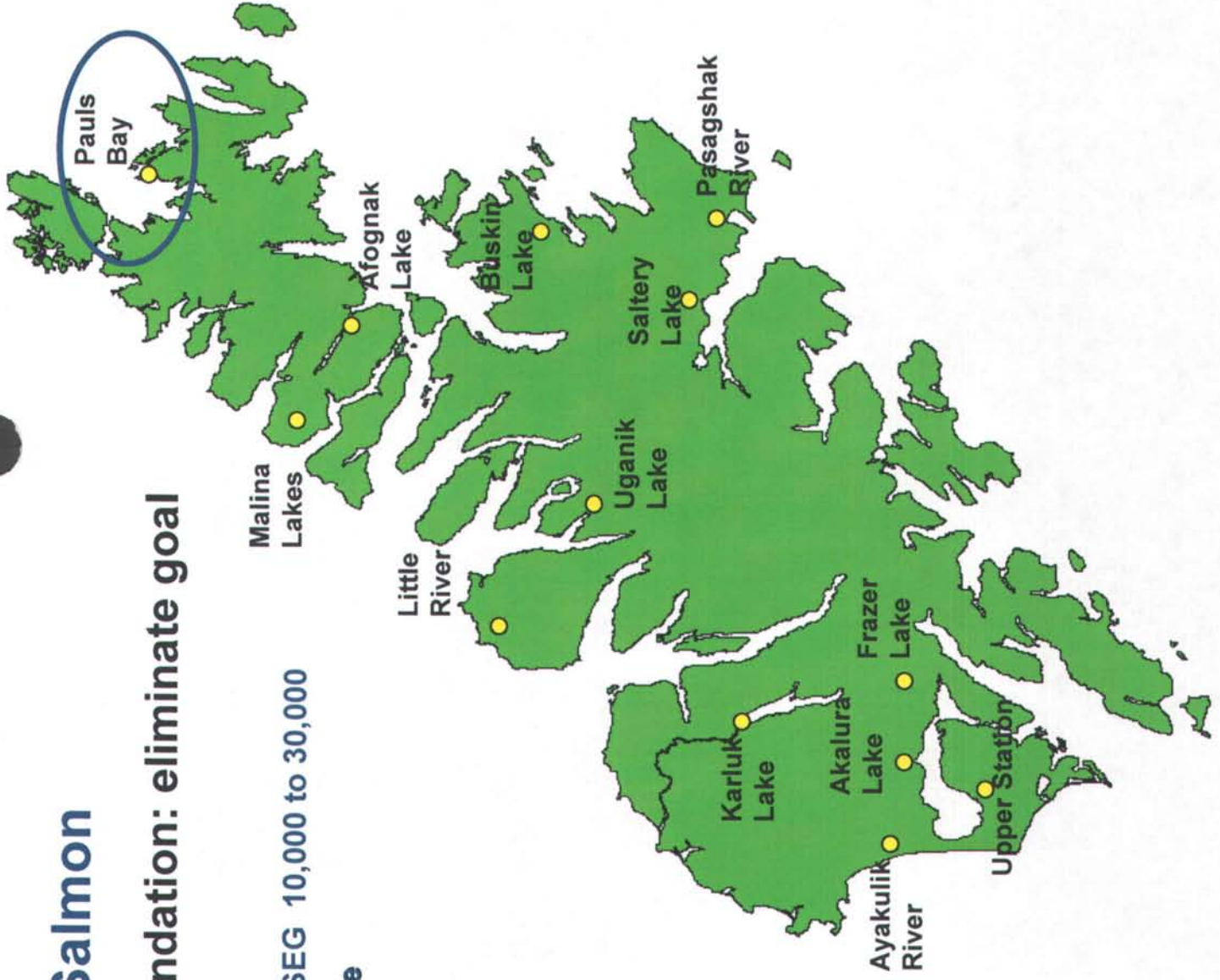
Sockeye Salmon

Recommendation: eliminate goal

Pauls Bay

Current goal: SEG 10,000 to 30,000

New goal: none



Sockeye Salmon

Recommendation: establish goals

Little River

Current goal: none

New goal: SEG 3,000

Uganik Lake

Current goal: none

New goal: SEG 24,000



Coho Salmon

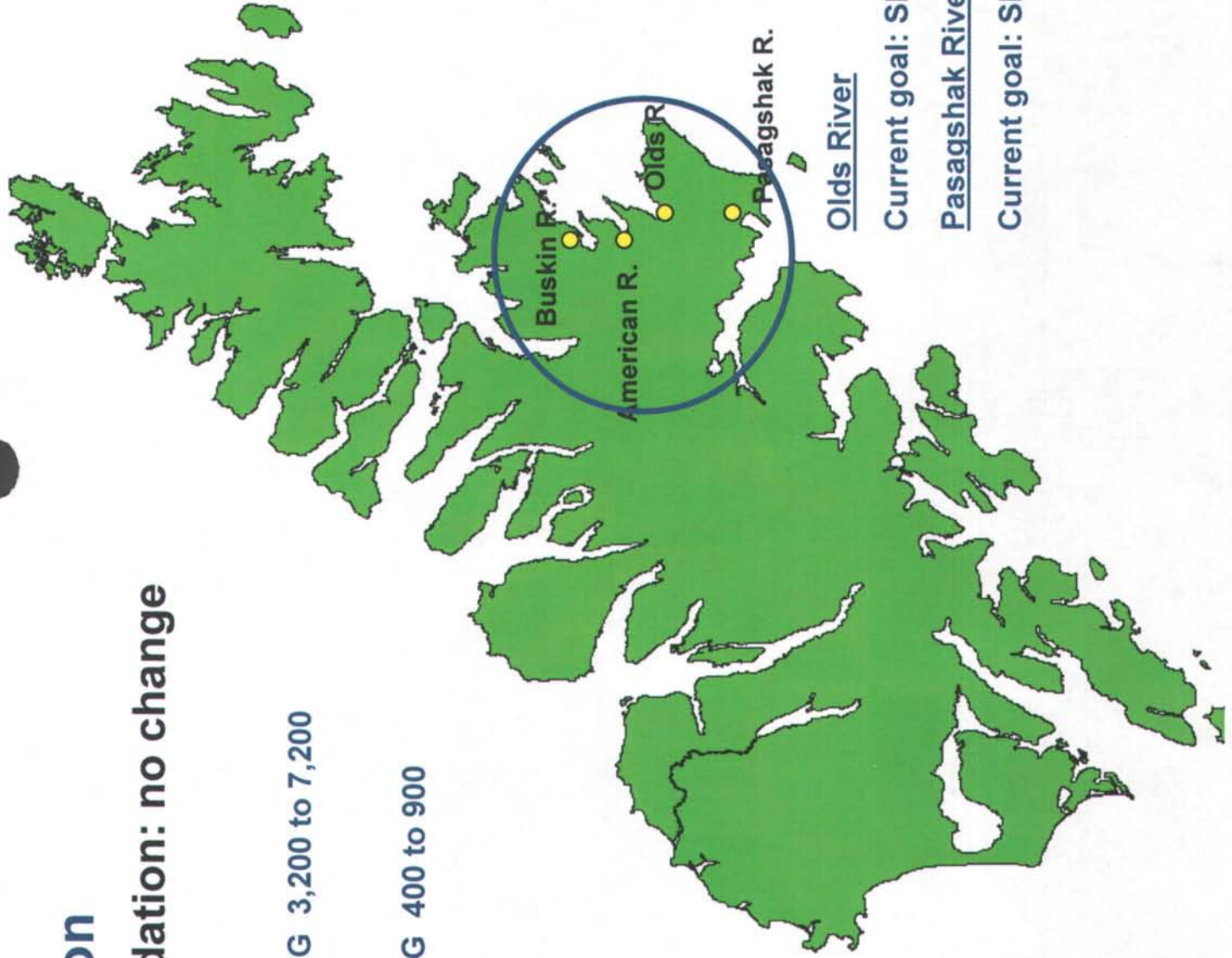
Recommendation: no change

Buskin River

Current goal: BEG 3,200 to 7,200

American River

Current goal: SEG 400 to 900



Olds River

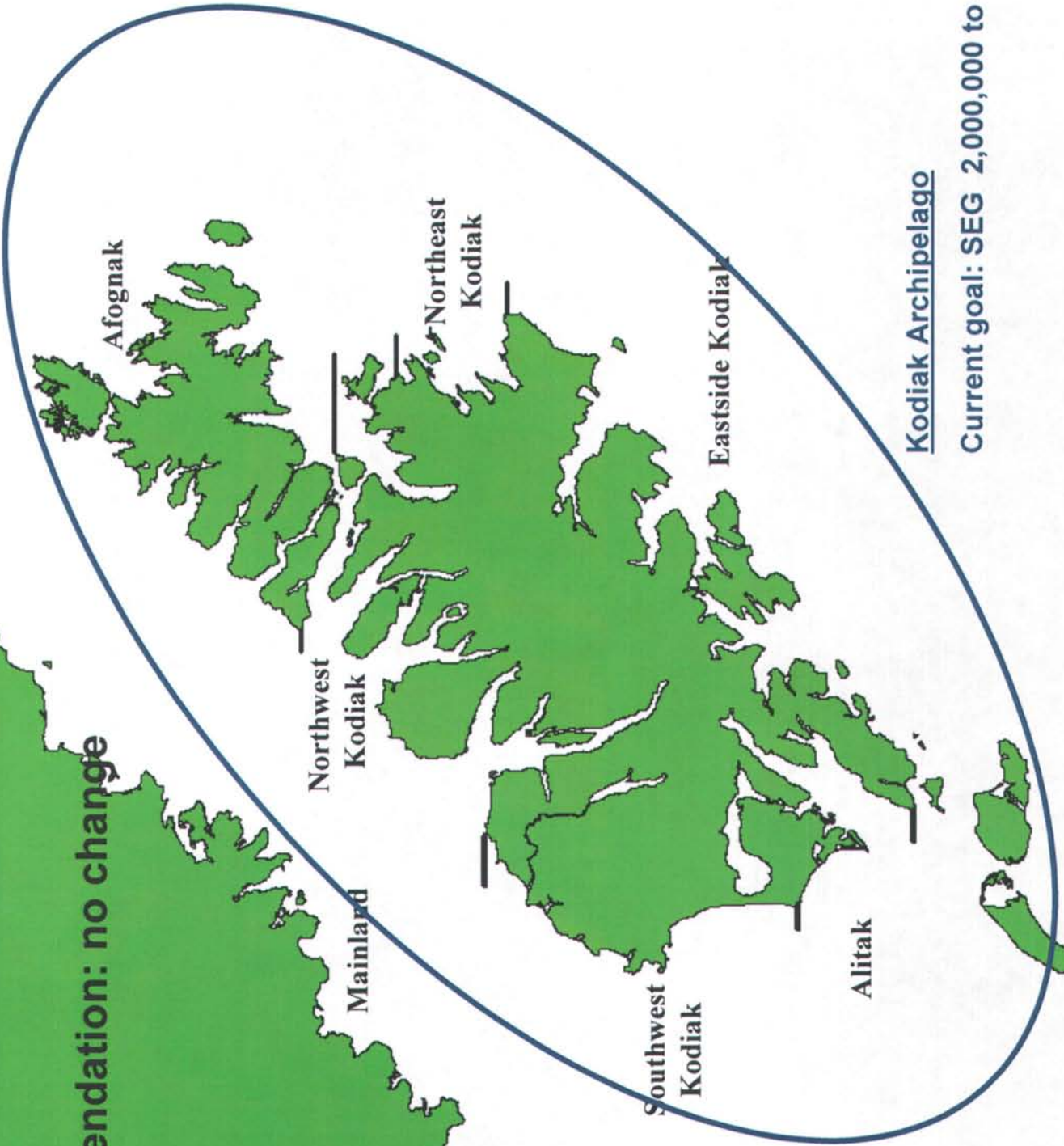
Current goal: SEG 1,000 to 2,200

Pasagshak River

Current goal: SEG 1,200 to 3,300

Pink Salmon

Recommendation: no change

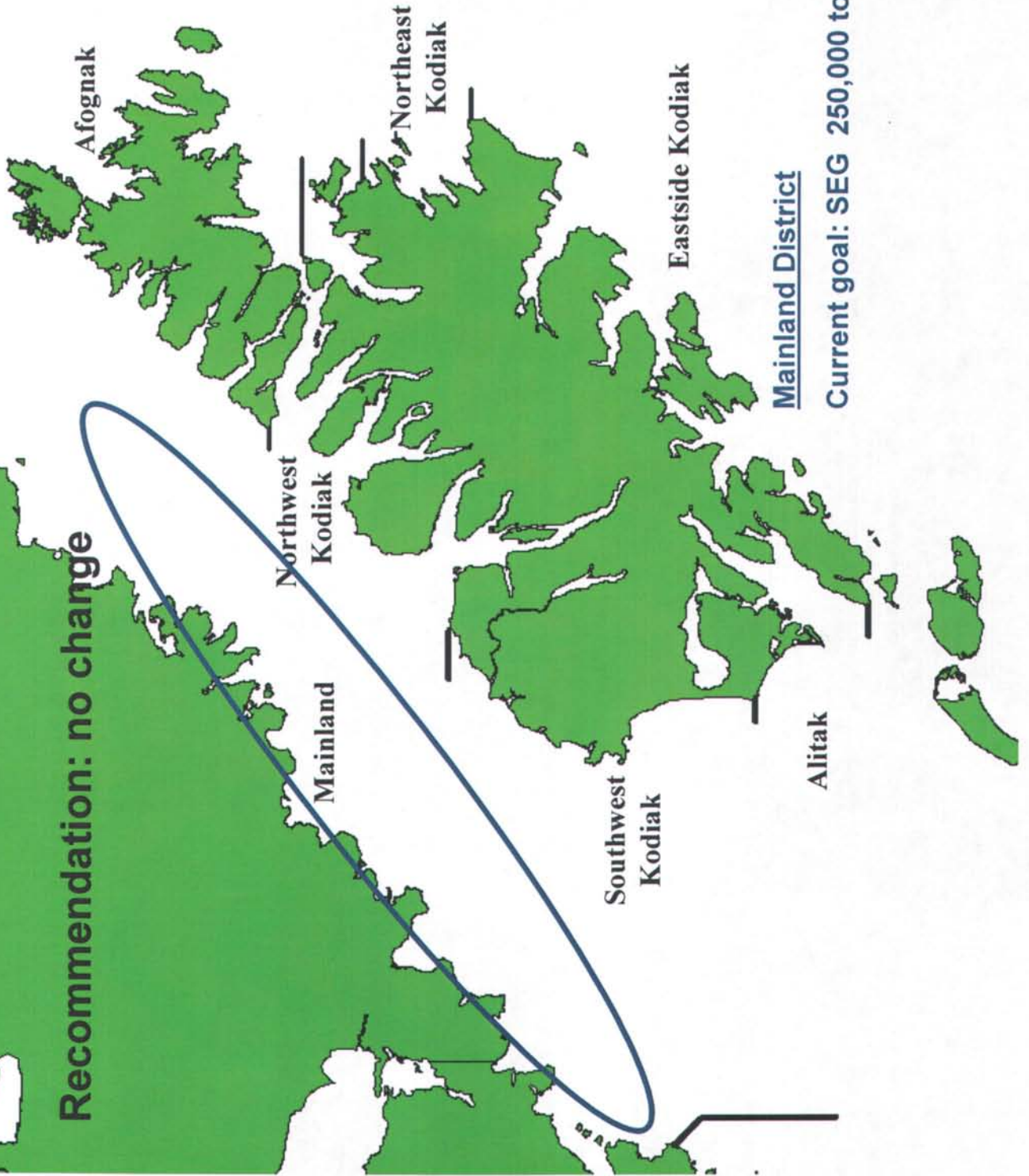


Kodiak Archipelago

Current goal: SEG 2,000,000 to 5,000,000

Pink Salmon

Recommendation: no change



Mainland District

Current goal: SEG 250,000 to 750,000

Chum Salmon

Recommendation: change goal



Mainland District

Current goal: SEG 153,000

New goal: SEG 104,000

Chum Salmon

Recommendation: eliminate goals

Current goals

Northwest: SEG 53,000

Southwest: SEG 7,300

Alitak: SEG 28,000

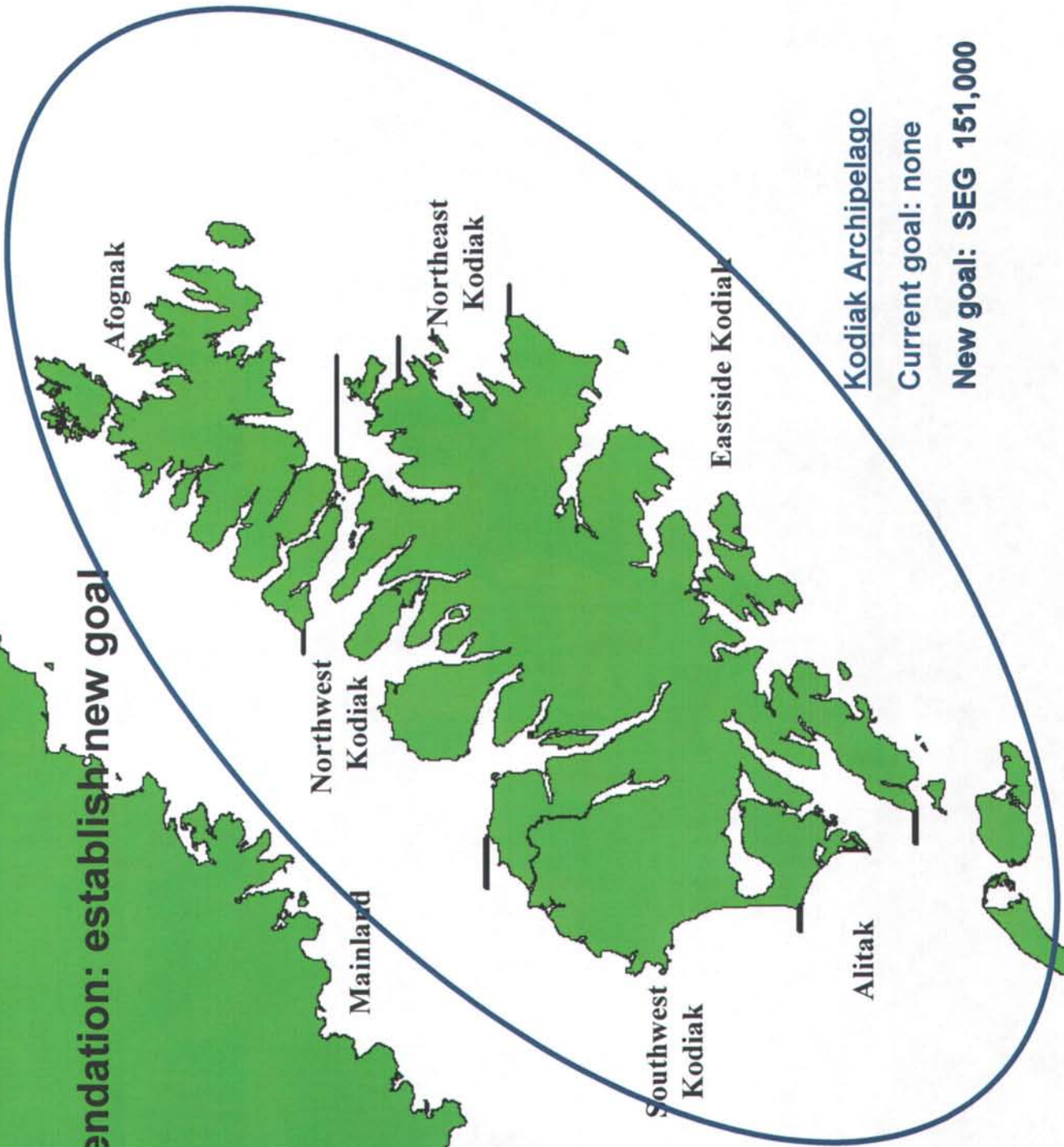
Eastside: SEG 50,000

Northeast: SEG 9,000



Chum Salmon

Recommendation: establish new goal



Kodiak Archipelago

Current goal: none

New goal: SEG 151,000

Kodiak Management Area Escapement Goal Review Summary

Comprehensive review of 26 Existing Salmon Escapement Goals

Consensus of Team:

No Change to 16 goals

Karluk Chinook	Ayakulik Chinook
Malina sockeye	Afognak sockeye
Karluk LR sockeye	Ayakulik sockeye
U. Station ER sockeye	U. Station LR sockeye
Buskin sockeye	Pasagshak sockeye
Buskin coho	American coho
Olds coho	Pasagshak coho
Kodiak Archipelago pink	Mainland District pink

Kodiak Management Area Escapement Goal Review Summary

Comprehensive review of 26 Existing Salmon Escapement Goals

Consensus of Team:

Change 4 goals

Karluk ER sockeye: BEG 110,000 to 250,000

Frazer sockeye: BEG 75,000 to 170,000

Saltery sockeye: SEG 20,000 to 50,000

Mainland District chum: SEG 104,000

Eliminate 6 goals

Pauls Bay sockeye

Kodiak I. district chum – NW, SW, Alitak, Eastside, and NE

Kodiak Management Area Escapement Goal Review Summary

Comprehensive review of 26 Existing Salmon Escapement Goals

Consensus of Team:

Establish 3 new goals

Little River sockeye: SEG 3,000

Uganik sockeye: SEG 24,000

Kodiak Archipelago chum: SEG 151,000

Akalura sockeye will remain without a goal

Thank You

Any Questions?