

Western Alaska Salmon Stock Identification Program (WASSIP):

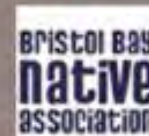
Understanding harvest patterns of sockeye and
chum salmon stocks from a large scale genetics
project, with focus on Alaska Peninsula



Eric Volk, Bill Templin, Chris Habicht,
Andrew Munro and Doug Eggers
RC 3 (website)

WASSIP Signatories

- *Alaska Department of Fish and Game*
- *Aleut Corporation*
- *Aleutians East Borough*
- *Association of Village Council Presidents*
- *Bering Sea Fishermen's Association*
- *Bristol Bay Native Association*
- *Concerned Area M Fishermen*
- *Kawerak Incorporated*
- *Lake and Peninsula Borough*
- *Tanana Chiefs Conference*
- *Yukon River Drainage Fisheries Association*



WASSIP Purpose

Identify stock contributions of sockeye and chum salmon to subsistence and commercial fisheries in Western Alaska, from the Chignik management area north to Kotzebue Sound, with the finest resolution possible. To the extent practicable, extend stock contribution estimates to stock-specific harvest rates.



What questions are we answering:

- What stocks are caught in a given fishery?
 - What are the stock compositions through time?
 - How do these translate to numbers of fish?
 - How do these translate to the proportion of the run?
 - How do these vary by fine-scale and broad-scale fisheries?
- What fisheries catch a given stock?
 - Where and when is a given stock caught in different fisheries?
 - What proportion of the total return do these catches represent?

Outline of data presentation

- By species – sockeye then chum salmon
- Overview of data from all of WASSIP
- Overview of data from each broad-scale fishery from Alaska Peninsula
- Detailed look at each fine-scale fishery

Sockeye salmon results





Baseline reporting groups (stocks)

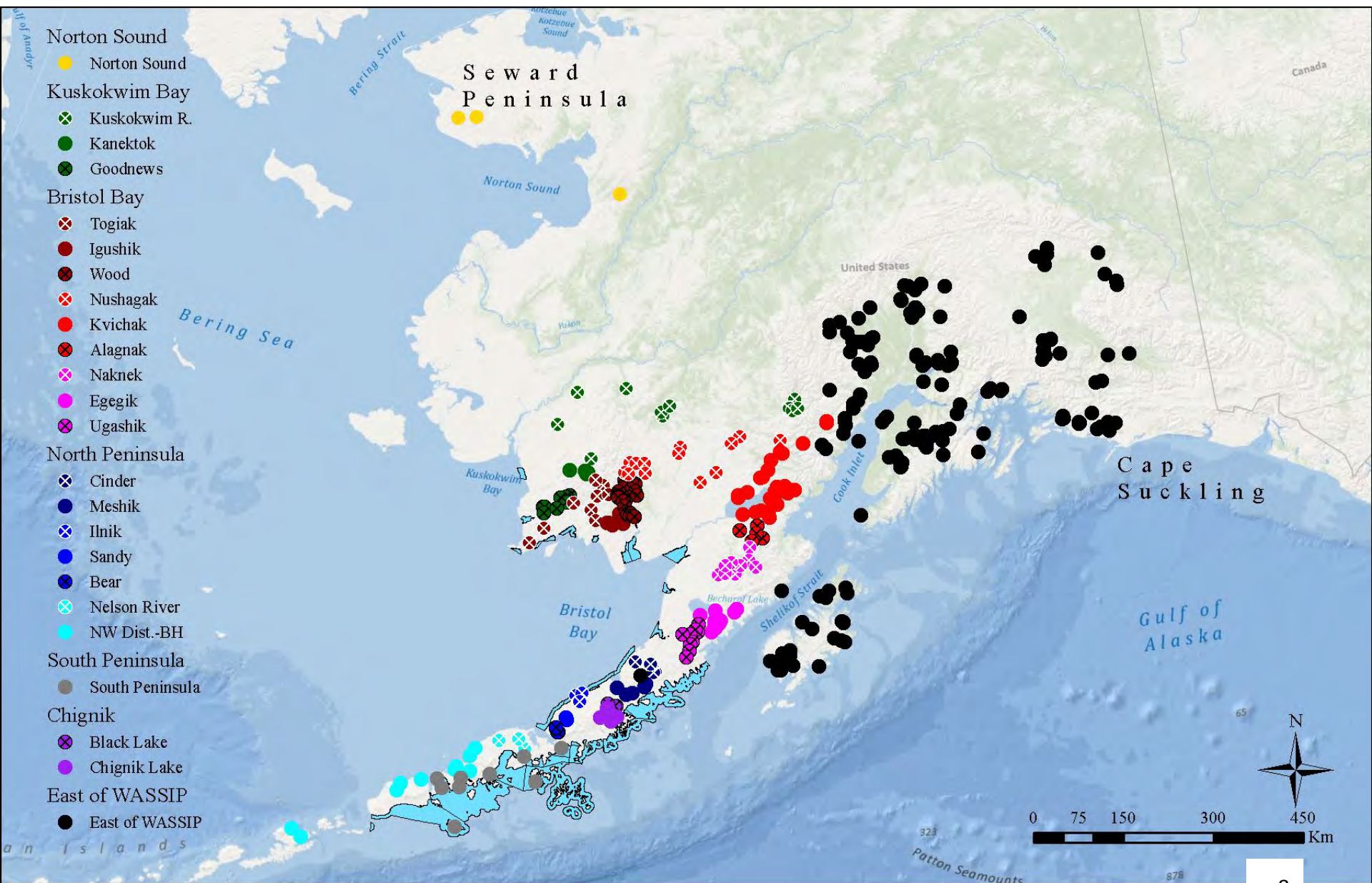


Figure 1.–

Where to find stock definitions for sockeye salmon



Special Publication No. 12-12

Sockeye Salmon Baseline for the Western Alaska Salmon Stock Identification Project

by

Tyler H. Dann

Christopher Habicht

James R. Jasper

Elisabeth K. C. Fox

Heather A. Hoyt

Heather L. Liller

Eric S. Lardizabal

Paul A. Kuriscek

Zachary D. Grauvogel

and

William D. Templin

July 2012

Alaska Department of Fish and Game

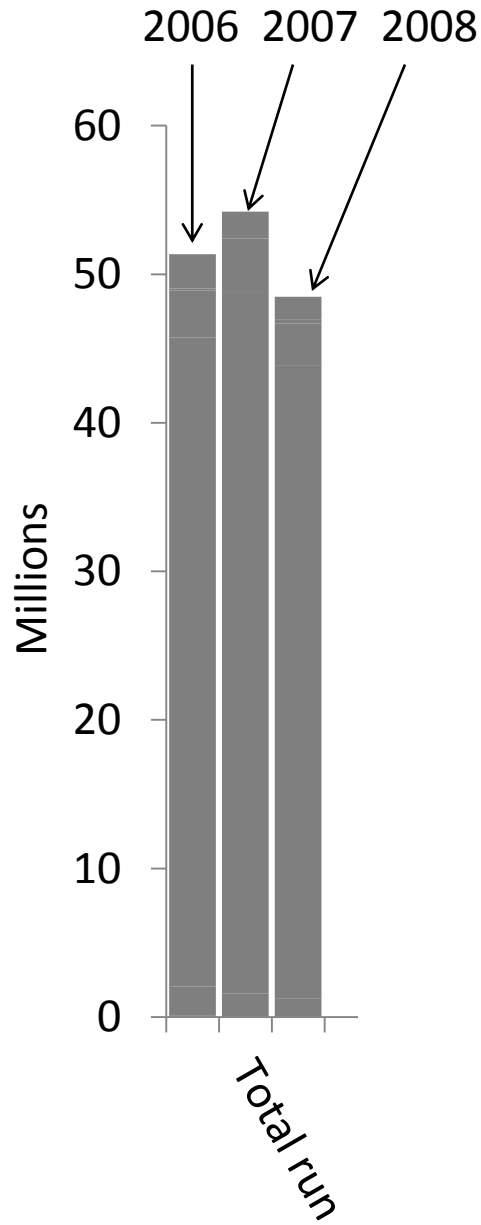
Division of Sport Fish and Commercial Fisheries



- SP 12-12
- Figures: 1 – 11
- Table: 2
- Order: Starts in Norton Sound, ends in Copper River

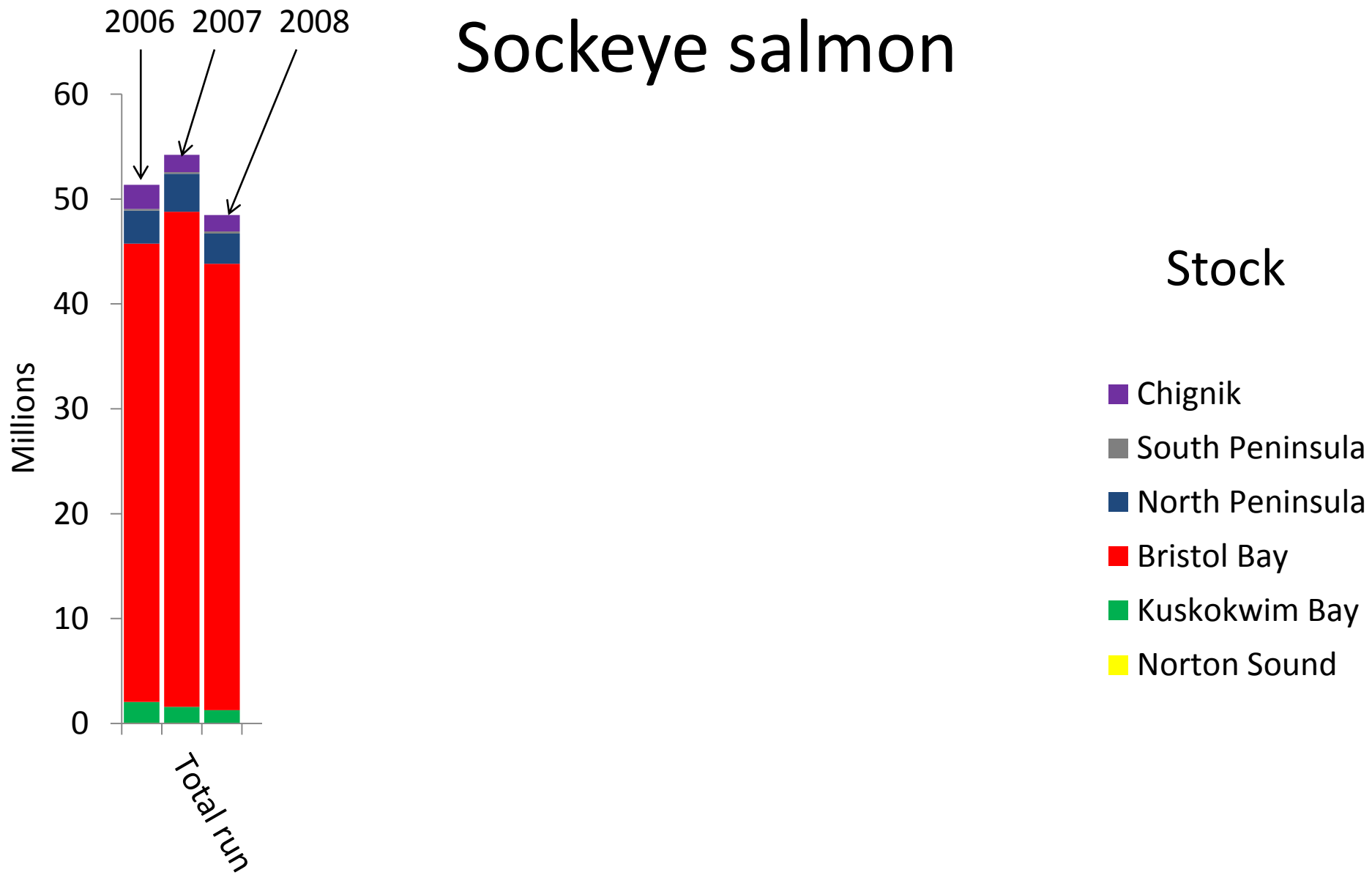


Total WASSIP area run: Sockeye salmon

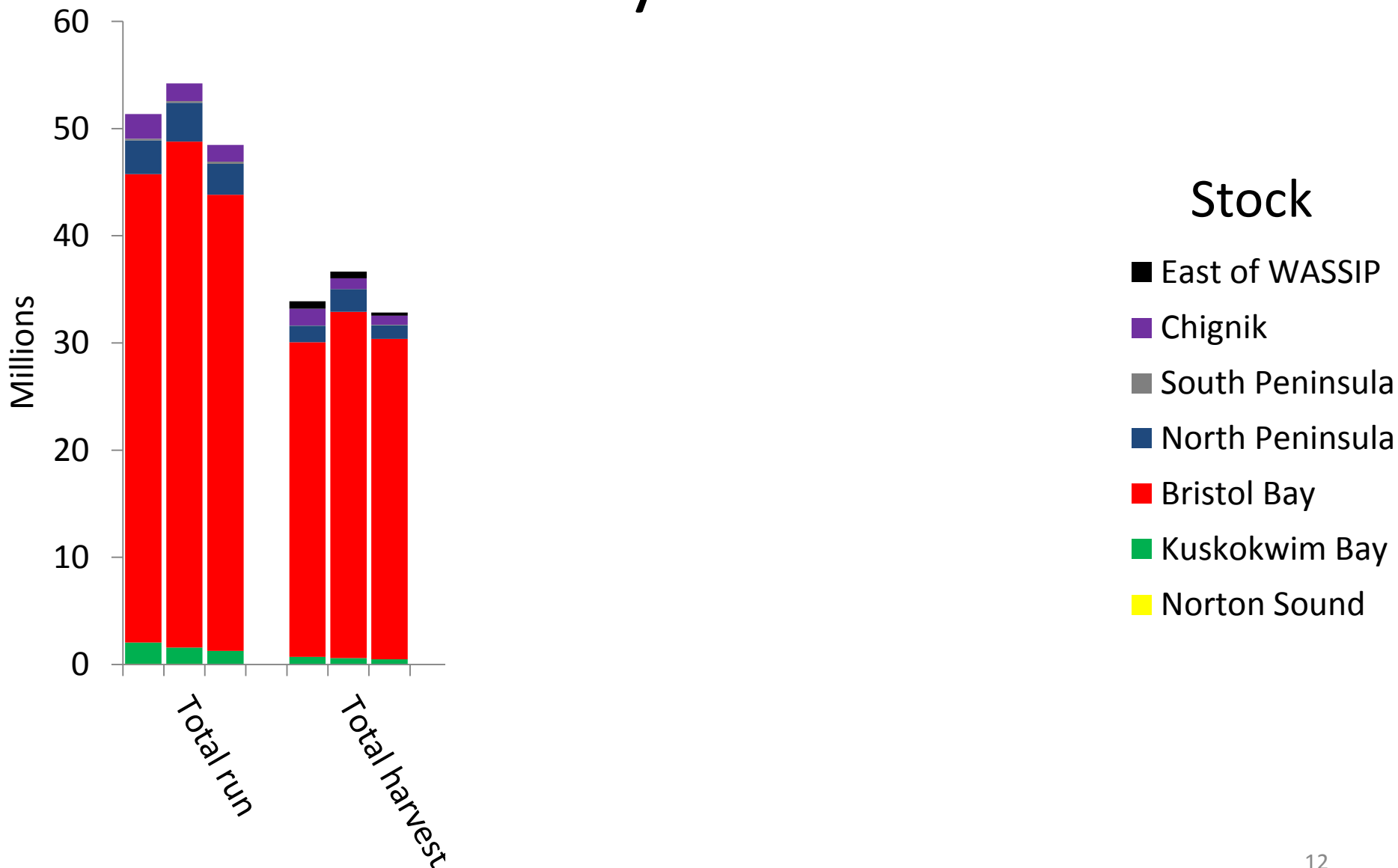




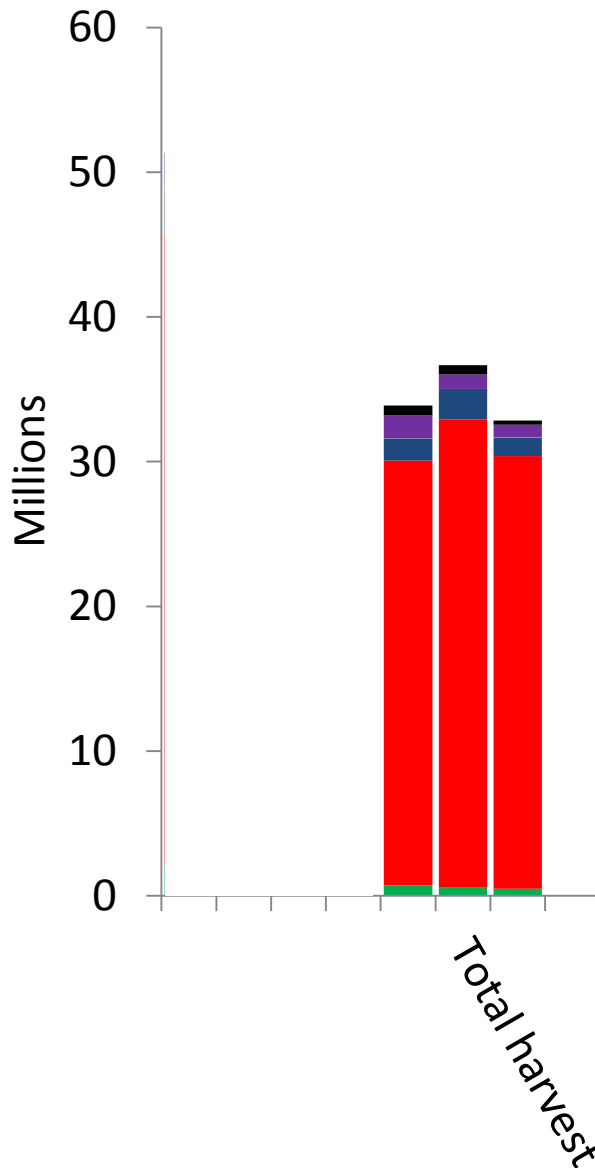
Total WASSIP area run by stock: Sockeye salmon



Total WASSIP area run and harvest: Sockeye salmon



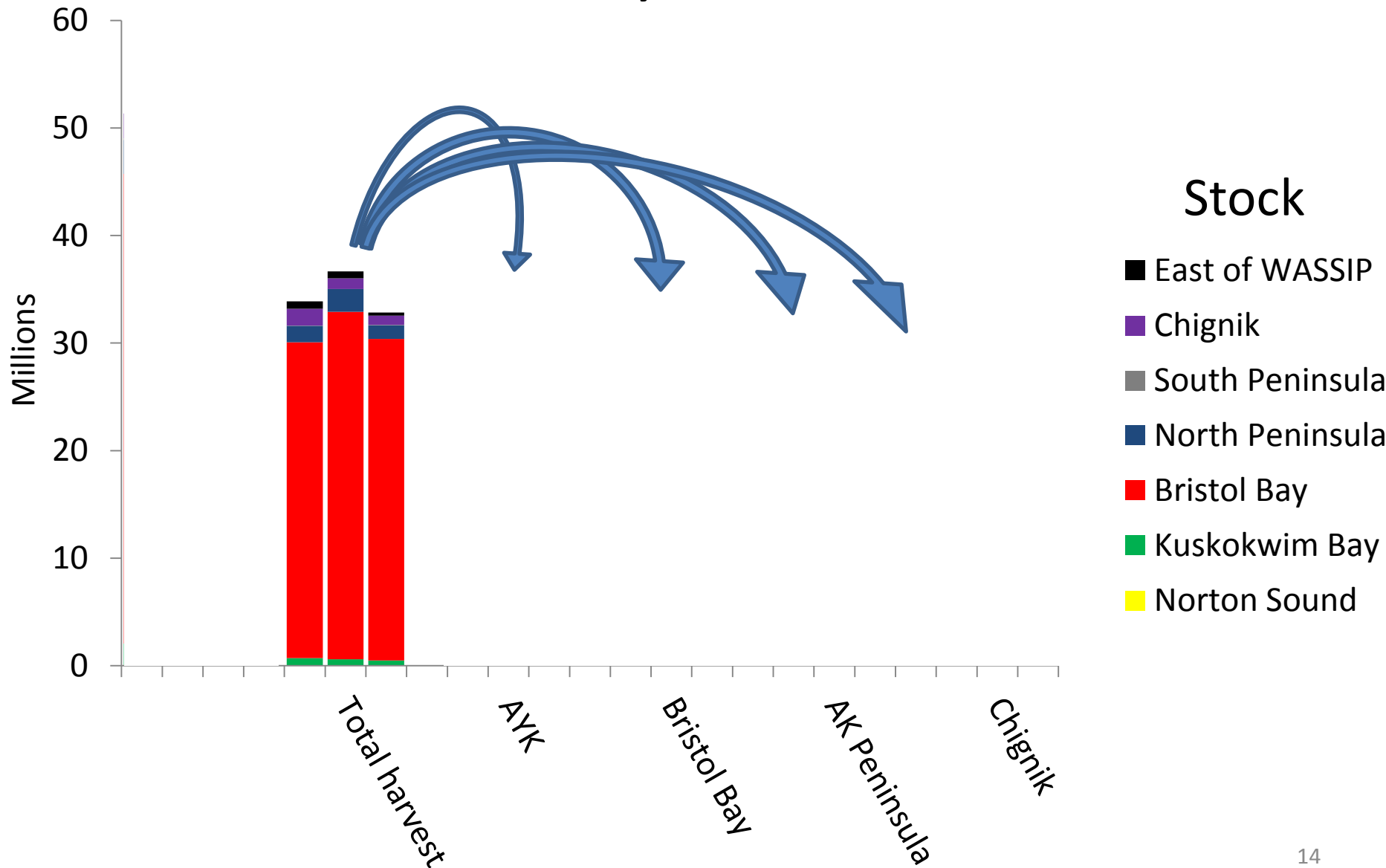
Total WASSIP area harvest: Sockeye salmon



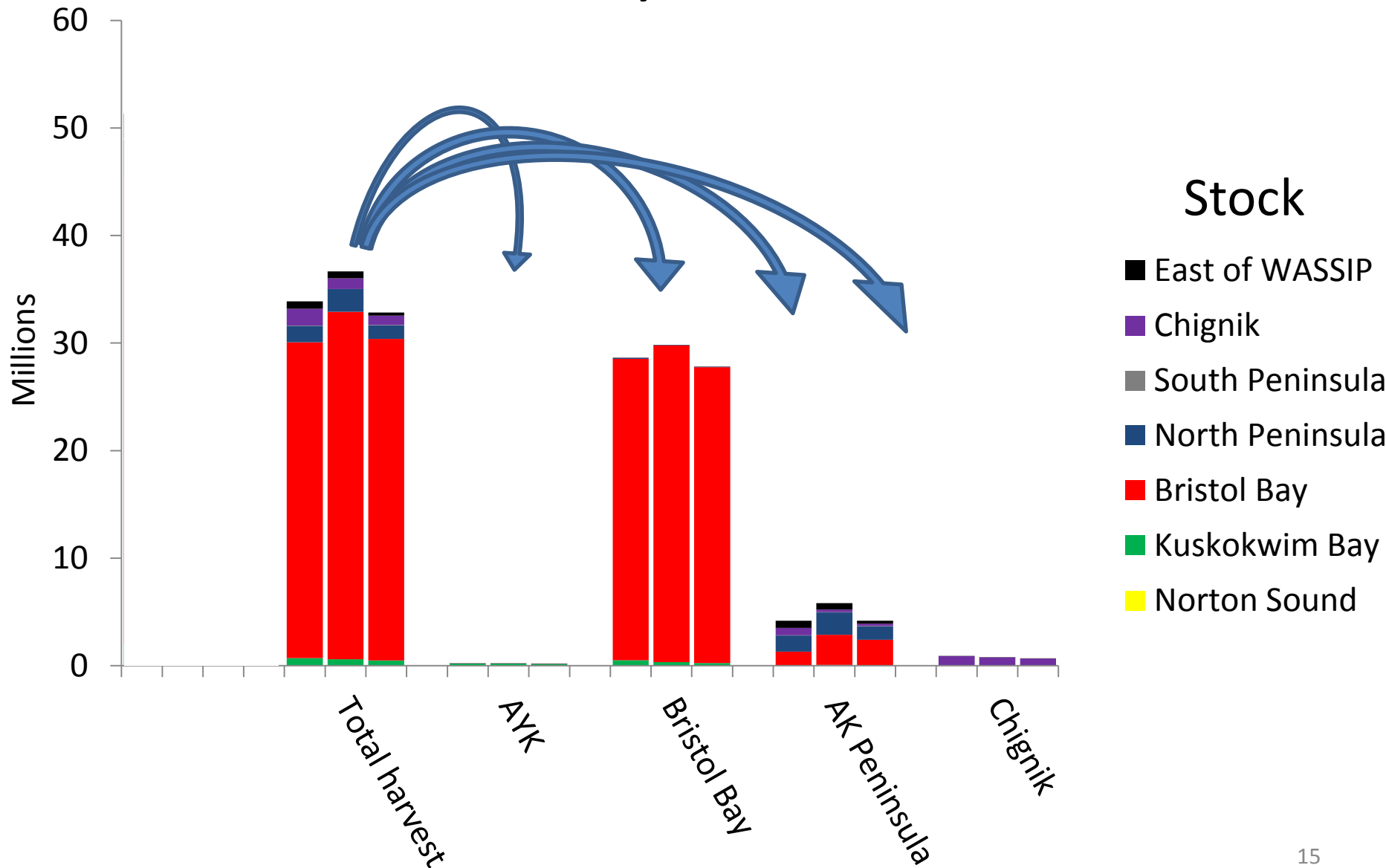
Stock

- East of WASSIP
- Chignik
- South Peninsula
- North Peninsula
- Bristol Bay
- Kuskokwim Bay
- Norton Sound

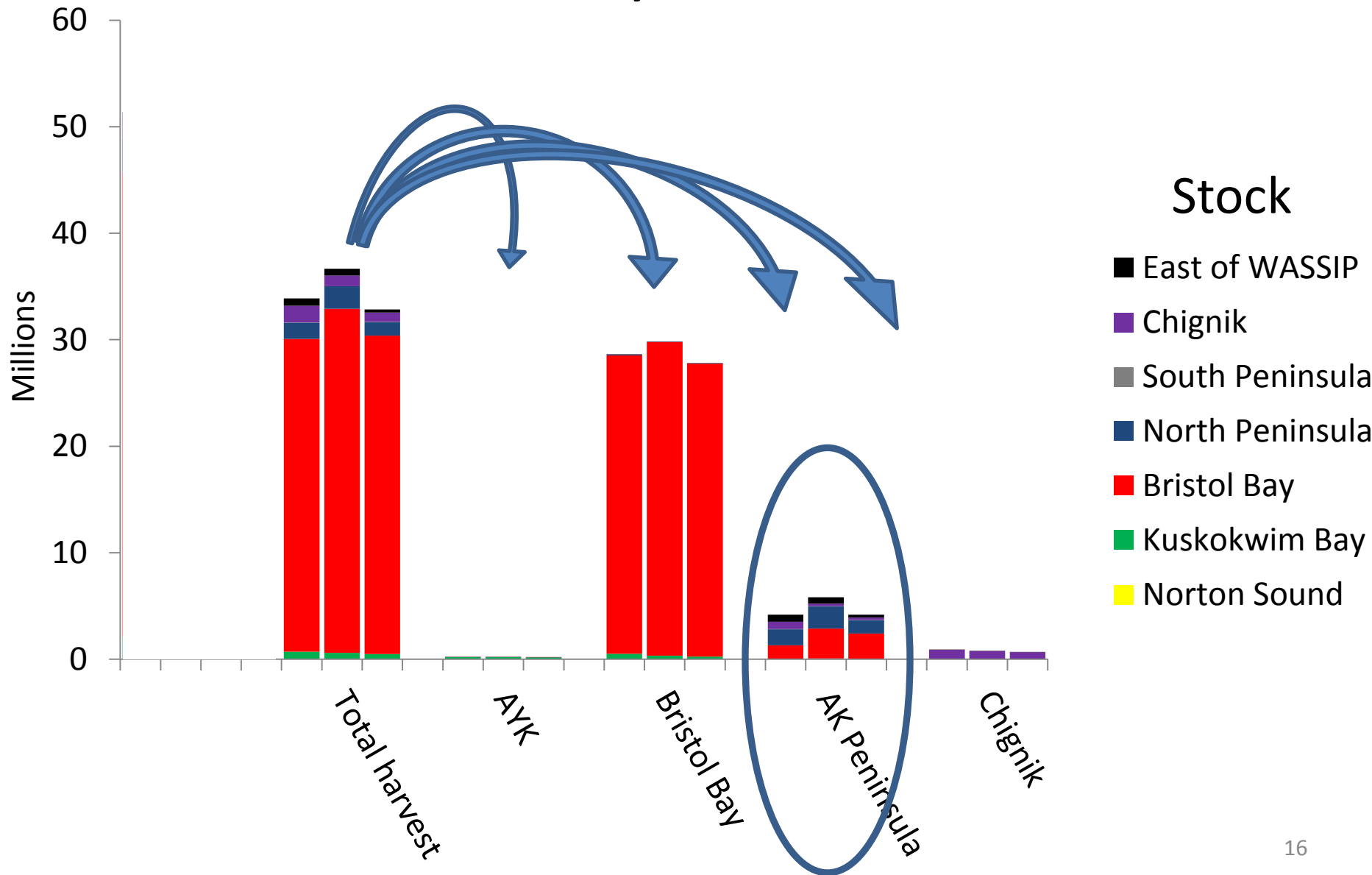
Total WASSIP area harvest divided by area: Sockeye salmon



Total WASSIP area harvest divided by area: Sockeye salmon

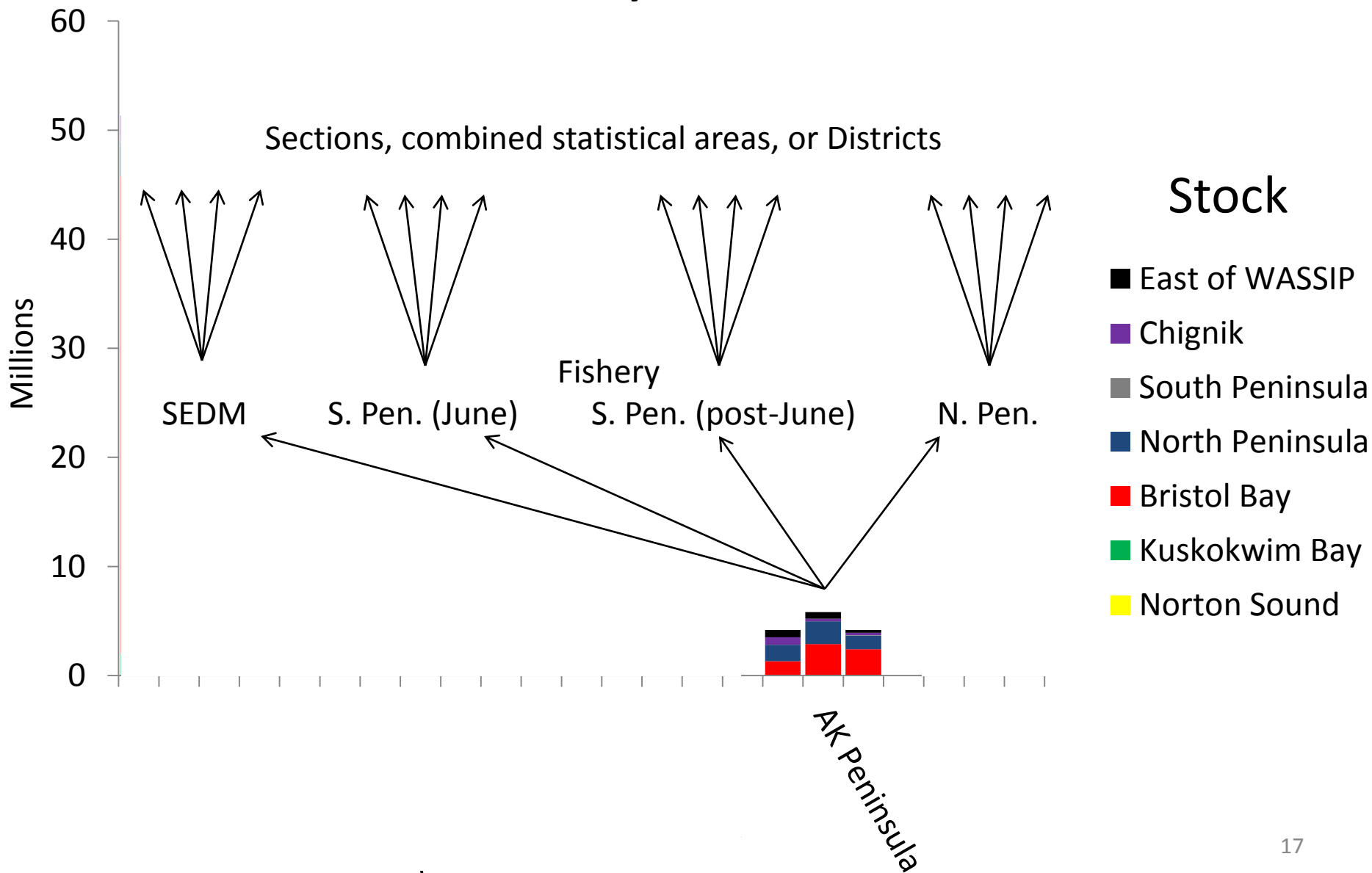


Total WASSIP area harvest divided by area: Sockeye salmon



Harvest in Alaska Peninsula divided into fisheries:

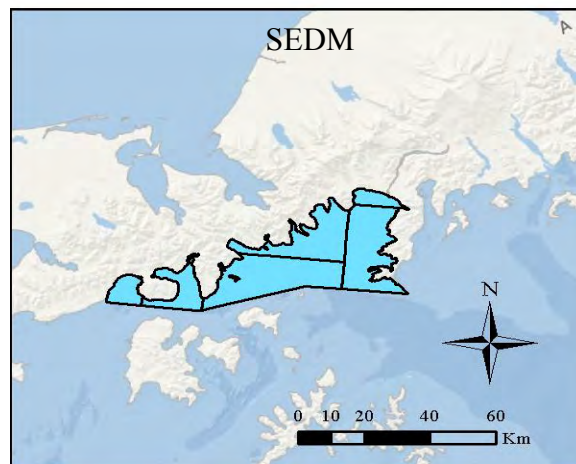
Sockeye salmon



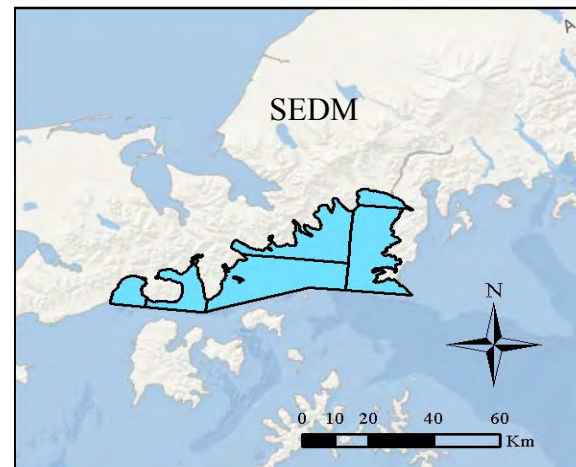
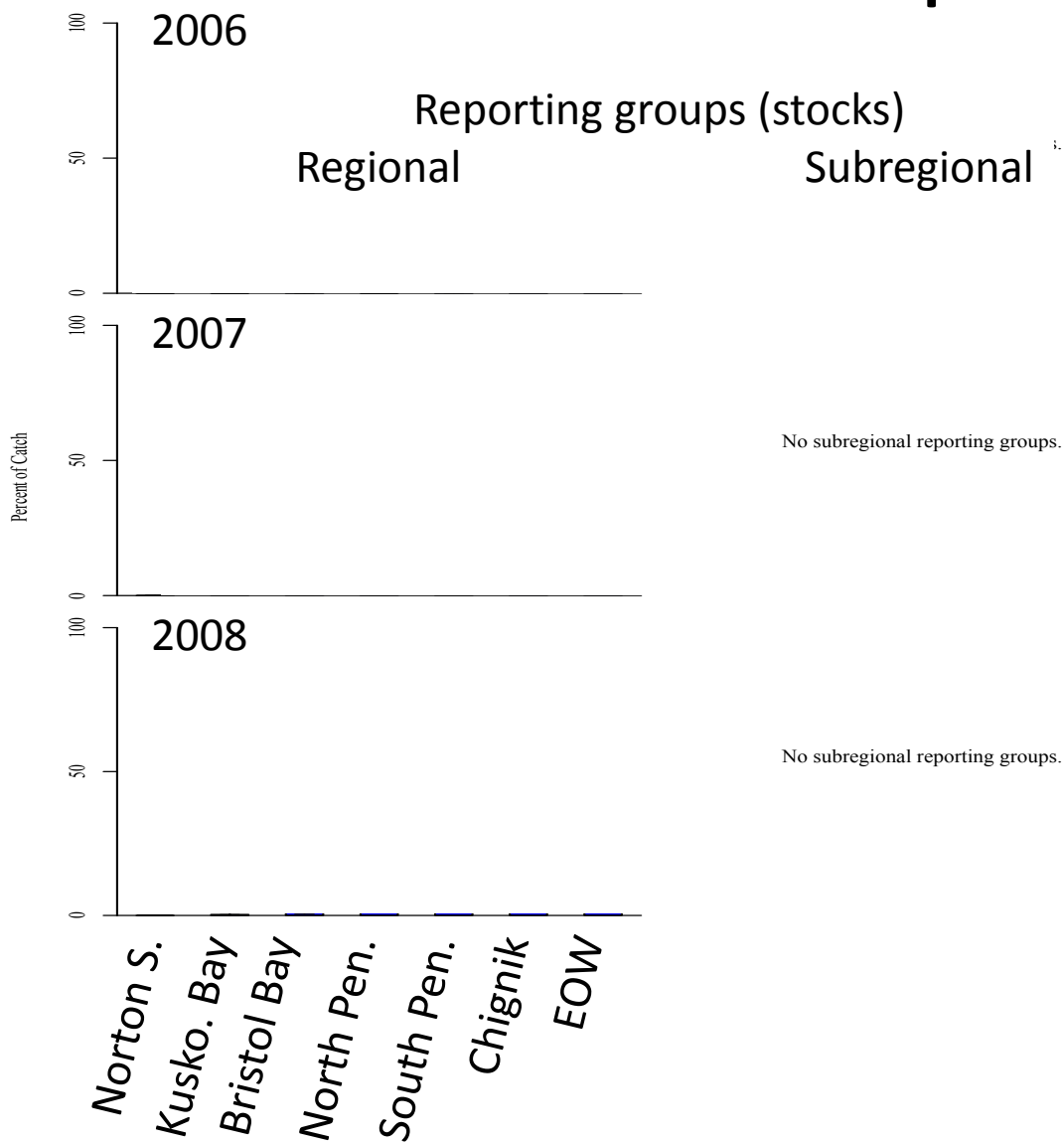


What stocks are caught in a given fishery?

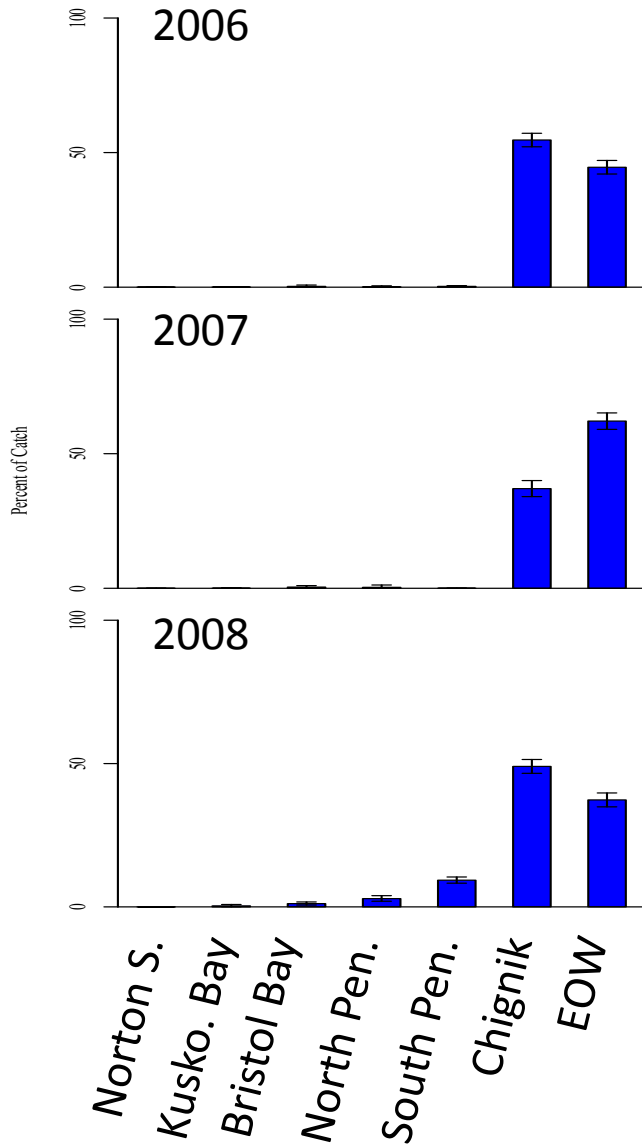
Southeastern District Mainland (SEDM):



Southeastern District Mainland (SEDM): stock compositions



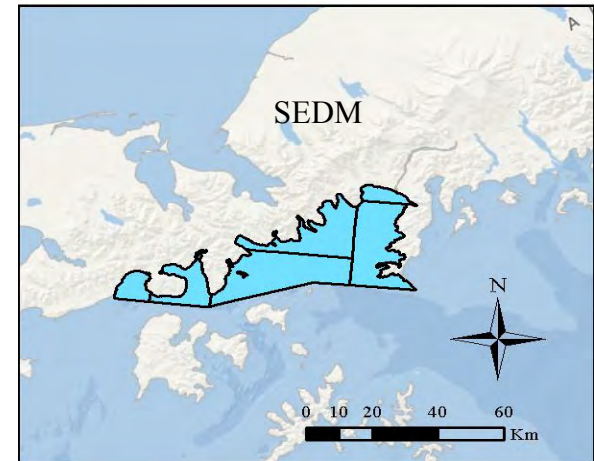
Southeastern District Mainland (SEDM): stock compositions



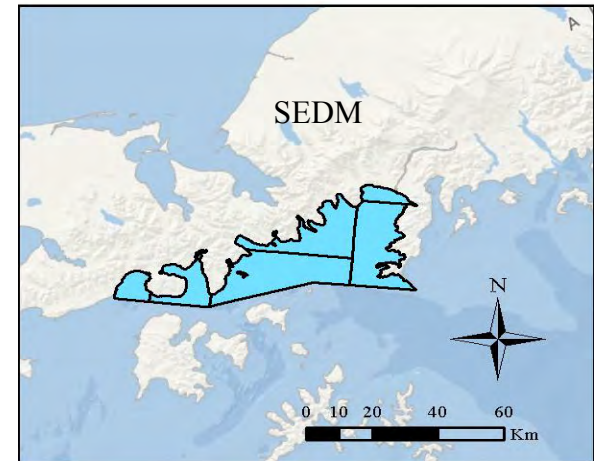
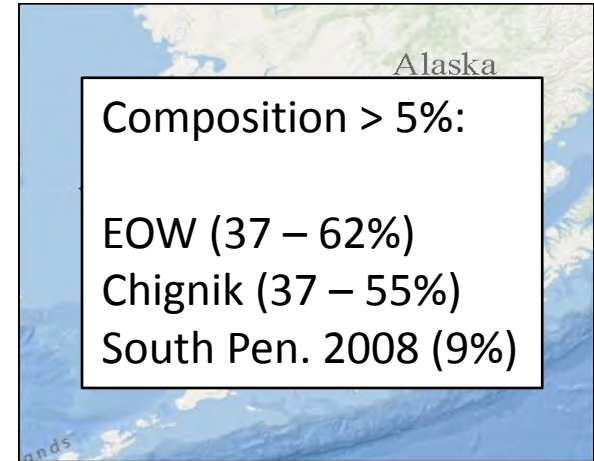
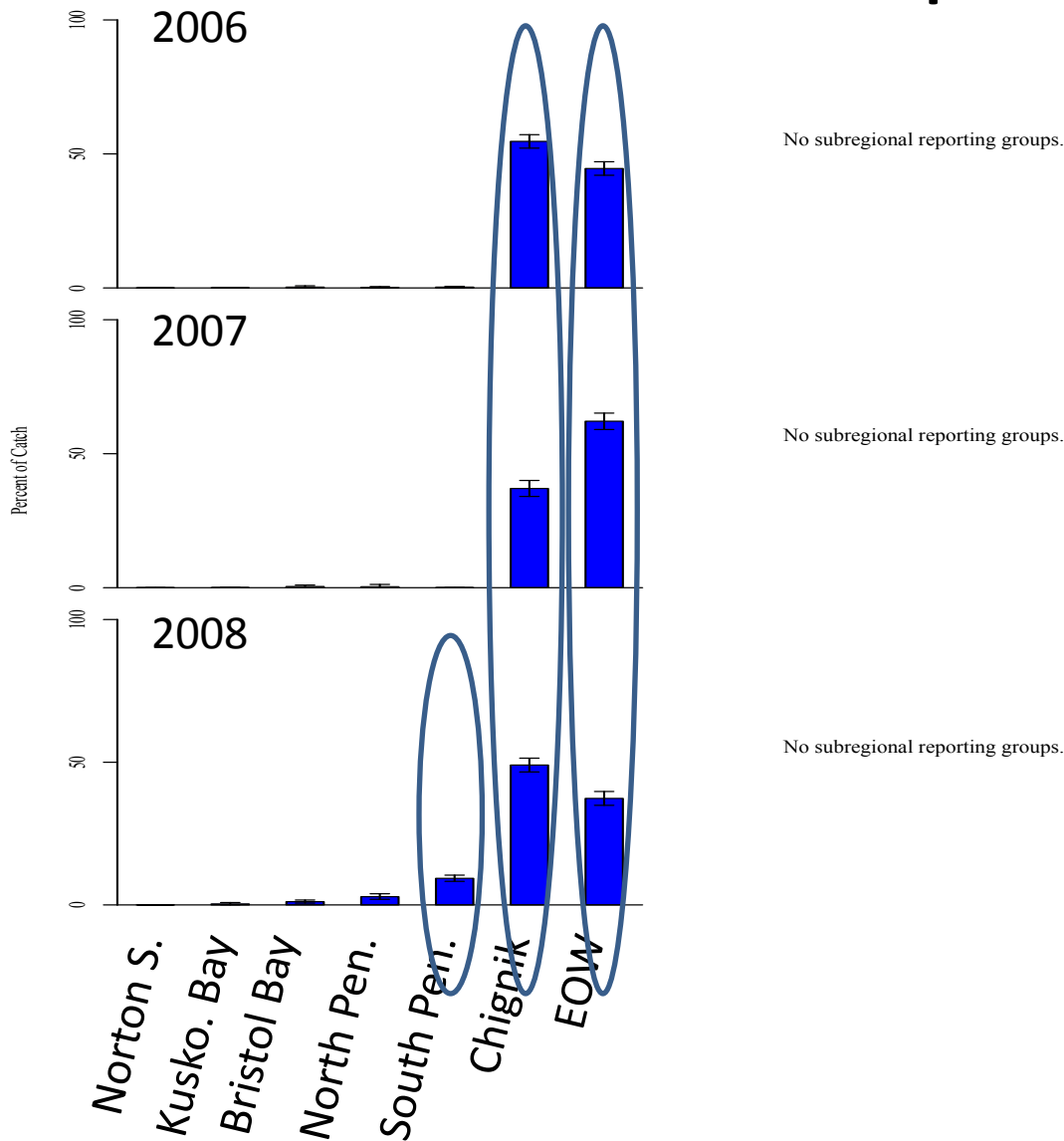
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No subregional reporting groups.

No subregional reporting groups.



Southeastern District Mainland (SEDM): stock compositions





Where to find stock compositions for a given fishery (sockeye salmon)

Special Publication No. 12-22

Stock Composition of Sockeye Salmon Harvests in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2006-2008

by

Tyler H. Dann,
Christopher Habicht,
Serena D. Rogers Olive,
Heather L. Liller,
Elisabeth K.C. Fox,
James R. Jasper,
Andrew R. Munro,
Mark J. Witteveen,
Timothy T. Baker,
Kathrine G. Howard,
Eric C. Volk,
and
William D. Templin

November 2012

Alaska Department of Fish and Game

Division of Sport Fish and Commercial Fisheries



- SP 12-22
- Figures: 2 – 26
- Tables: 3 – 92
 - Tabulated data shown in figures
- Appendices: B1 – H5
 - All fine-scale stock compositions
- Order: Starts in Chignik, ends in Kuskokwim

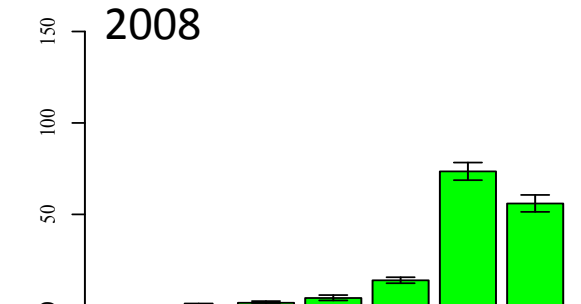
Southeastern District Mainland (SEDM): harvest numbers



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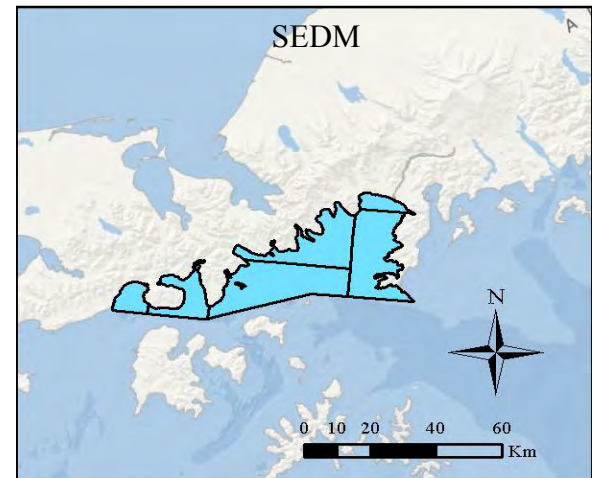


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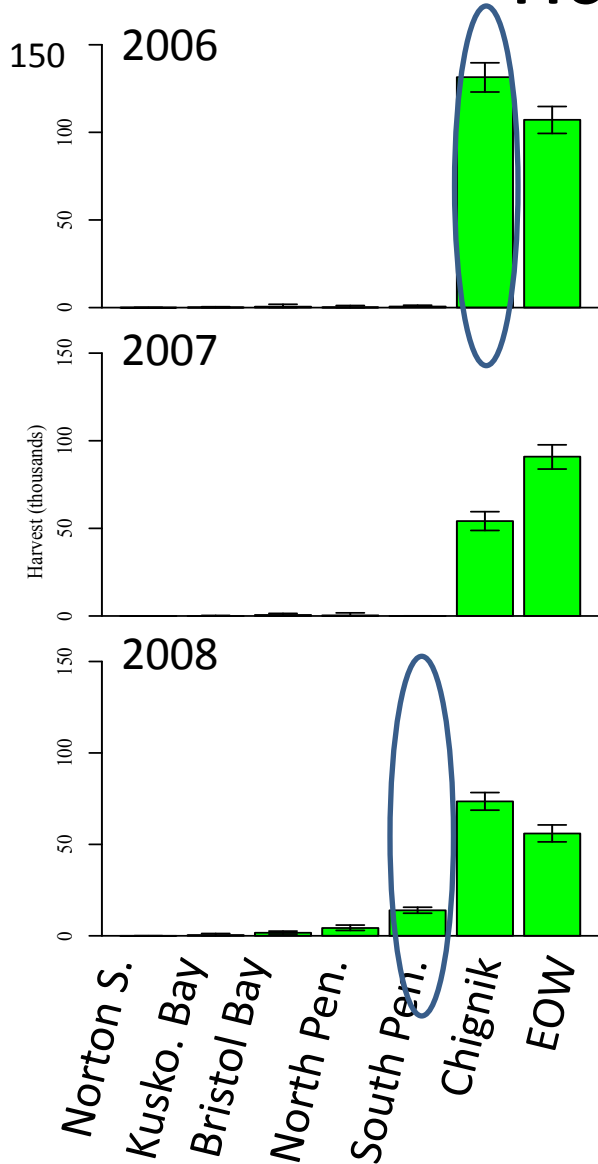


No subregional reporting groups.

Norton S.
Kusko. Bay
Bristol Bay
North Pen.
South Pen.
Chignik
EOW



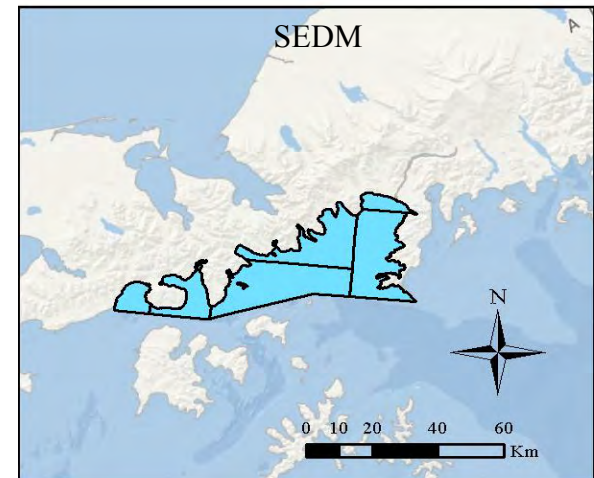
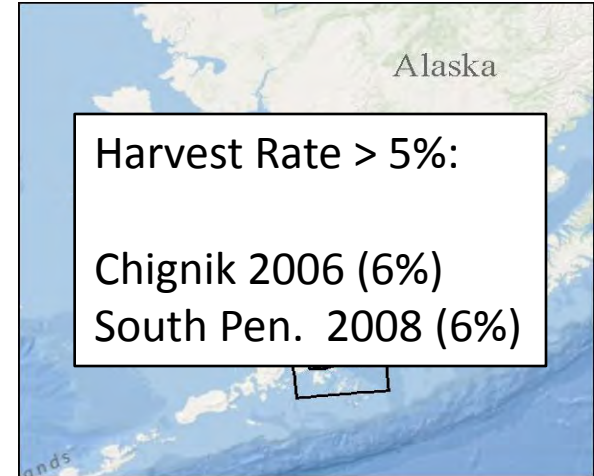
Southeastern District Mainland (SEDM): harvest numbers



No subregional reporting groups.

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Where to find stock-specific harvest numbers for a given fishery (sockeye salmon)



Special Publication No. 12-24

**Harvest and Harvest Rates of Sockeye Salmon
Stocks in Fisheries of the Western Alaska Salmon
Stock Identification Program (WASSIP), 2006-2008**

by

Christopher Habicht,
Andrew R. Munro,
Tyler H. Dann,
Douglas M. Eggers,
William D. Templin,
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November 2012

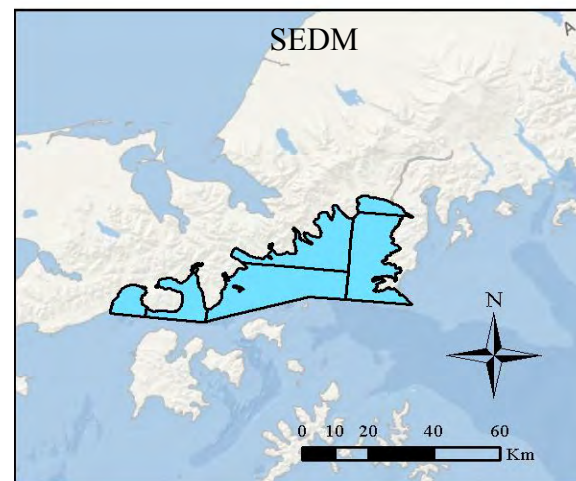
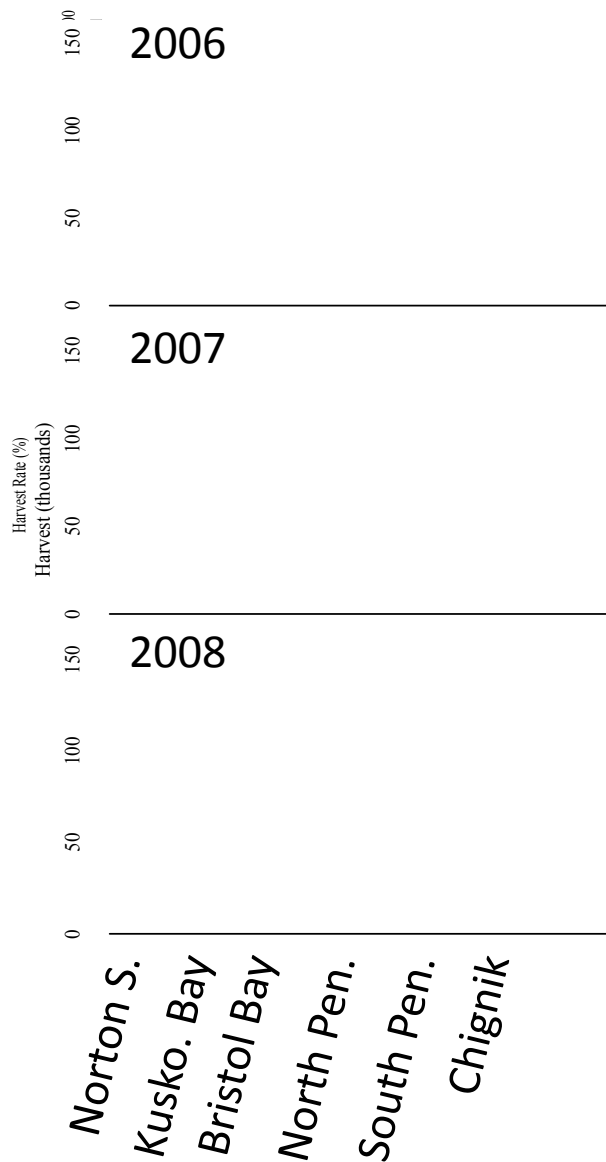
Alaska Department of Fish and Game

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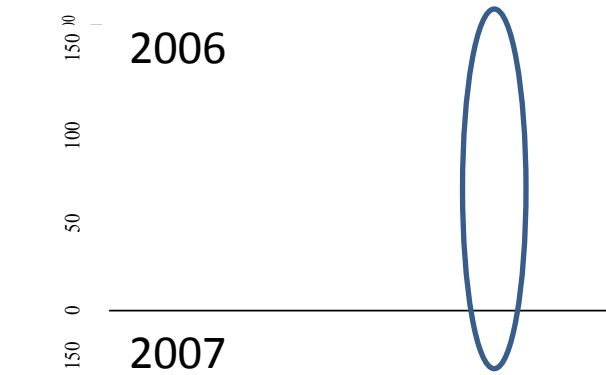


- SP 12-24
- Figures: 3 – 27
- Appendices: C1 - C244
 - All fine-scale harvest numbers
- Order: Starts in Chignik, ends in Kuskokwim

Southeastern District Mainland (SEDM): harvest rates



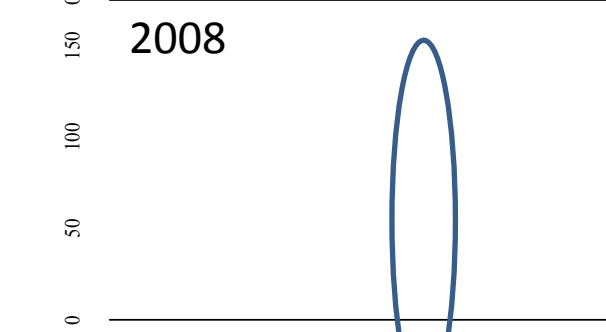
Southeastern District Mainland (SEDM): harvest rates



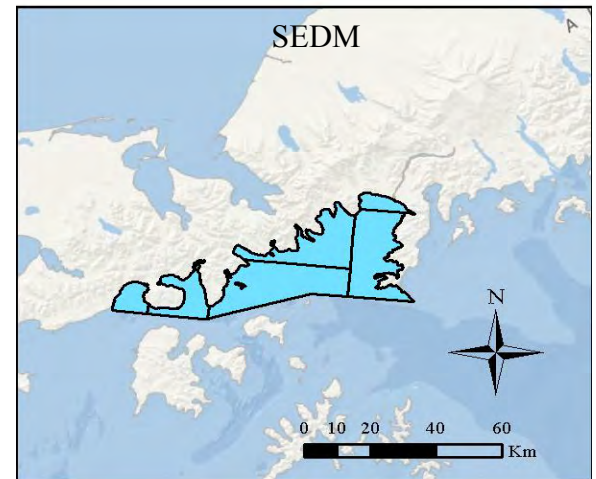
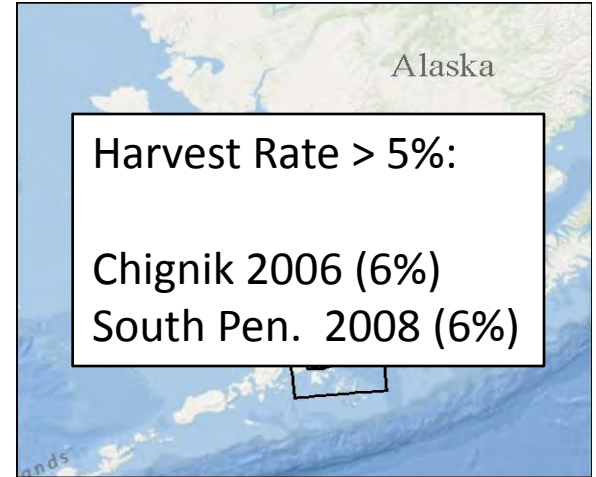
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Where to find stock-specific harvest rates for a given fishery (sockeye salmon)



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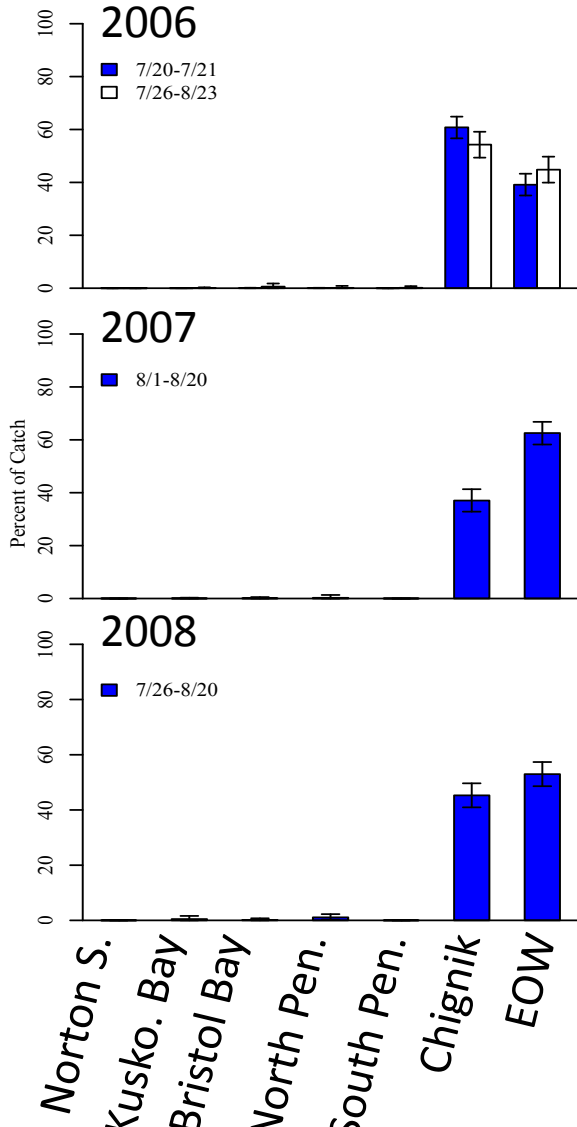
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- Figures: 28 – 52
- Tables: 6 – 101
 - Tabulated data shown in figures
- Appendices: D1 – D75
 - All fine-scale harvest rates
- Order: Starts in Chignik, ends in Kuskokwim



SEDM fisheries

- During WASSIP years (2006-2008)
 - Small Chignik runs -> fishery closures -> limited opportunities for genetic stock composition estimates
- After WASSIP years (2010 to 2012)
 - Larger Chignik runs and added test fisheries
 - Will be presented after this report

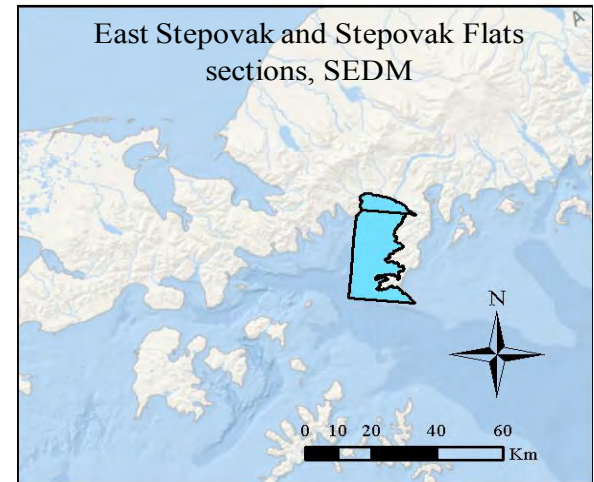
East Stepovak and Stepovak Flats sections: stock compositions



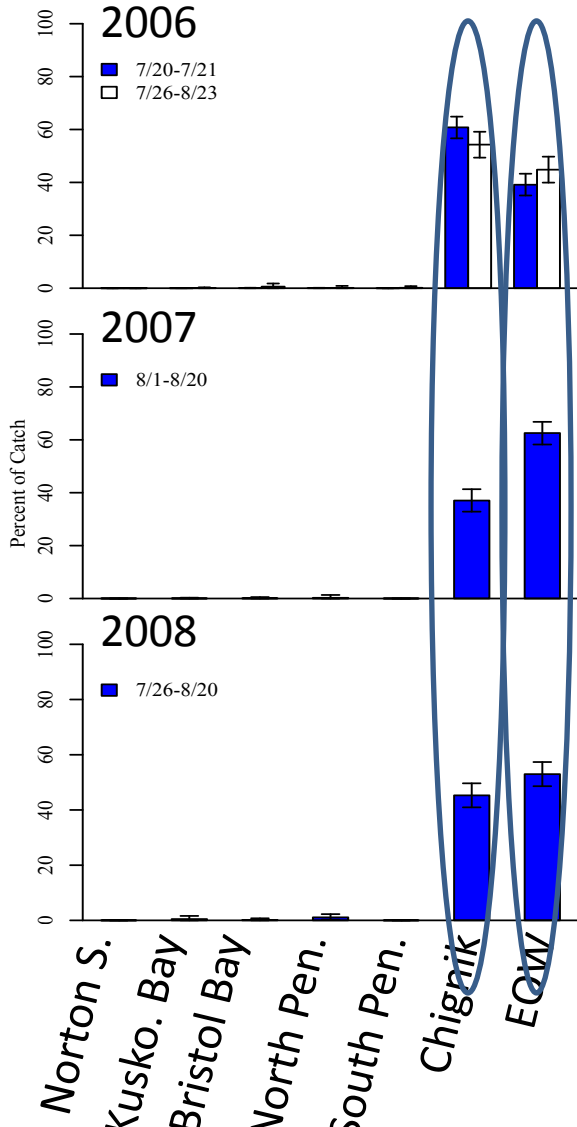
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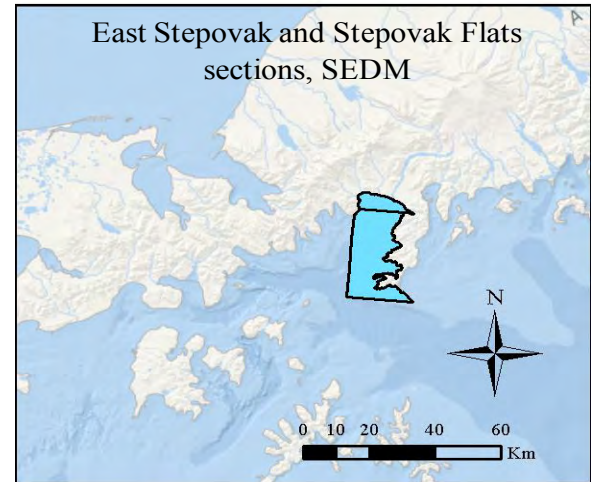
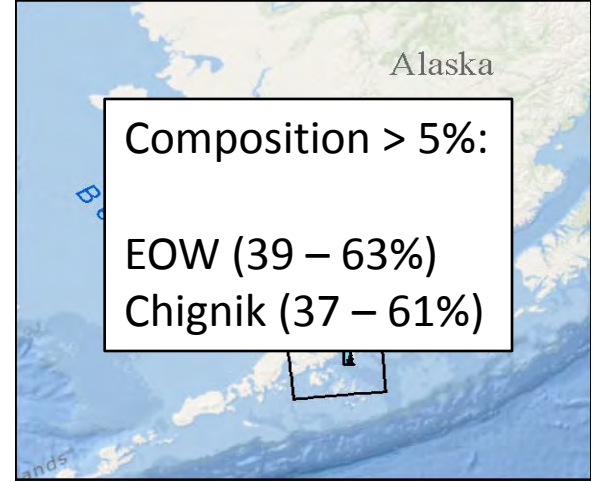
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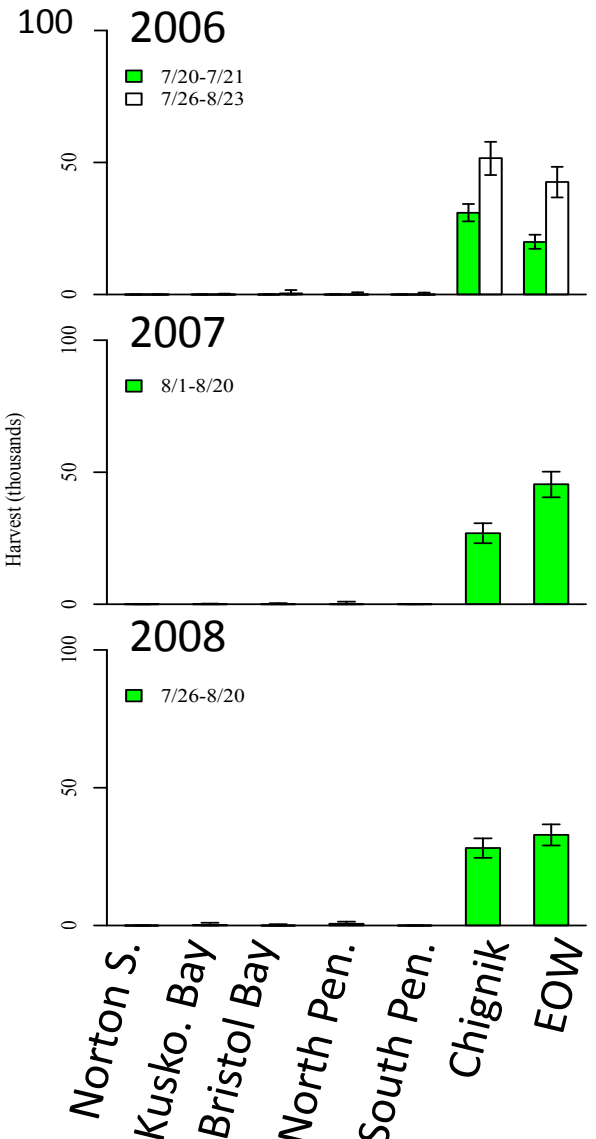
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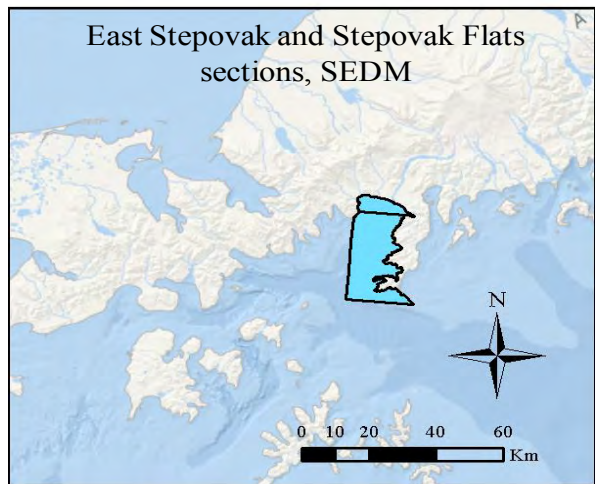
East Stepovak and Stepovak Flats sections: harvest numbers



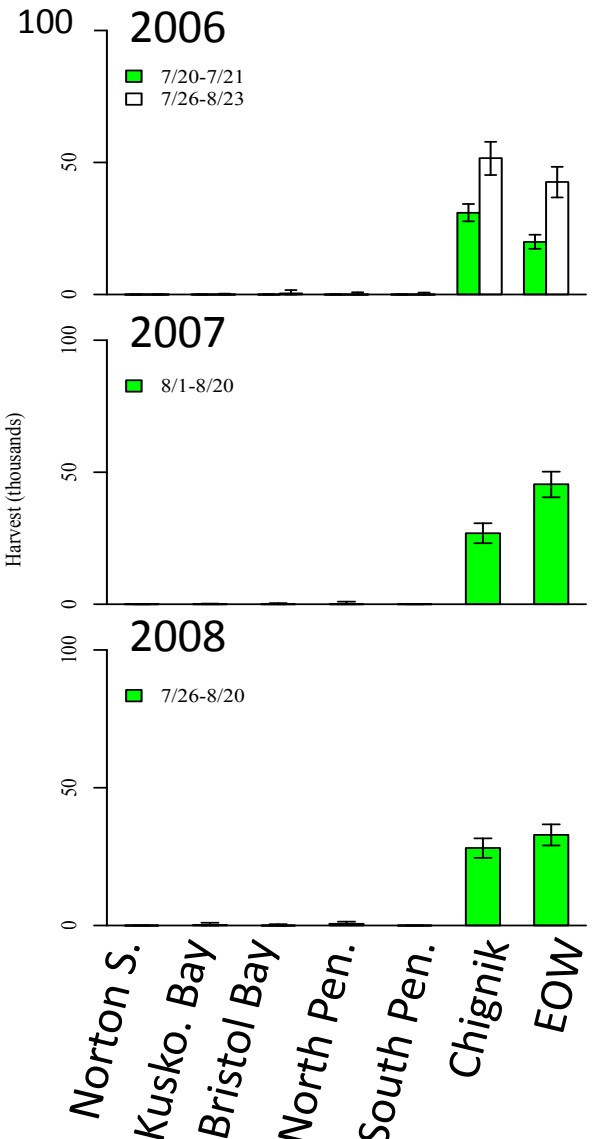
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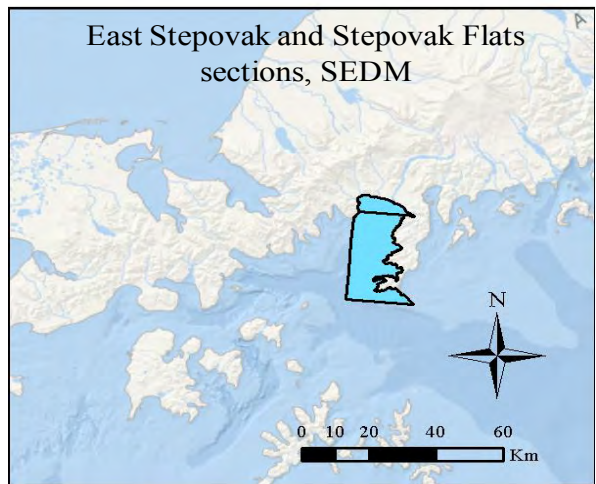
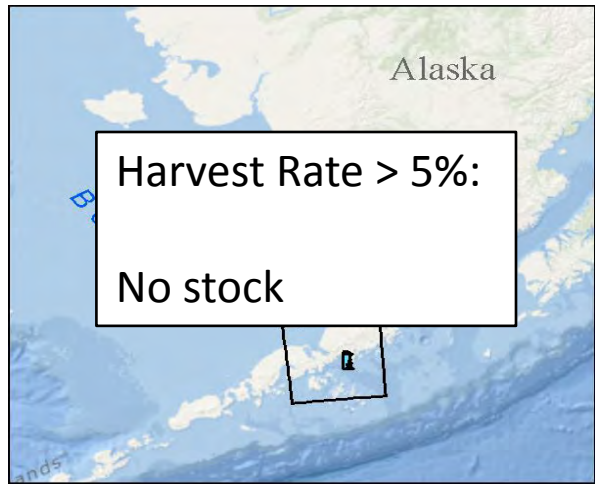
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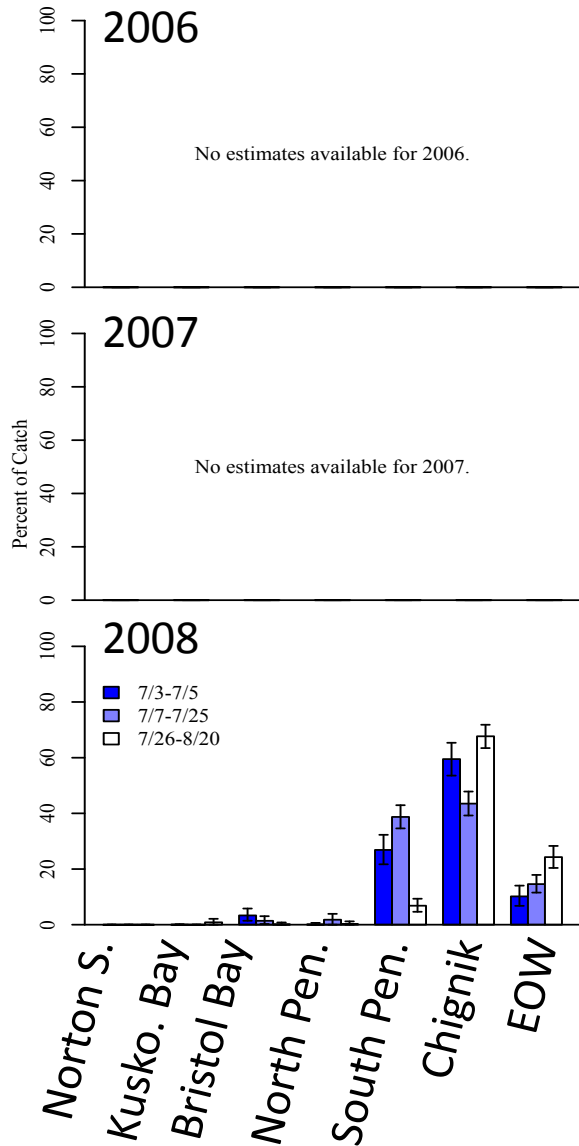
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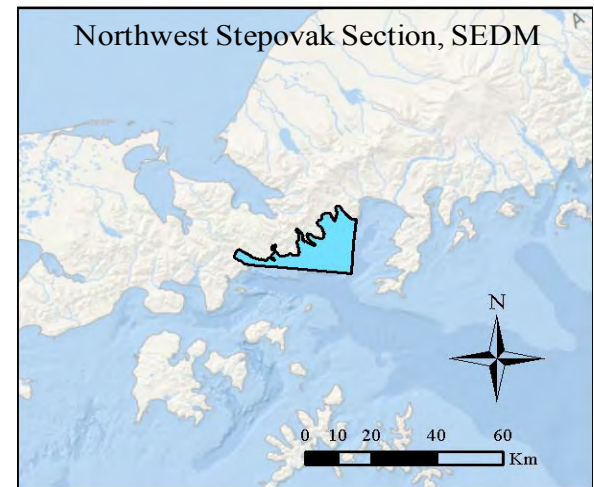
Northwest Stepovak Section: stock compositions



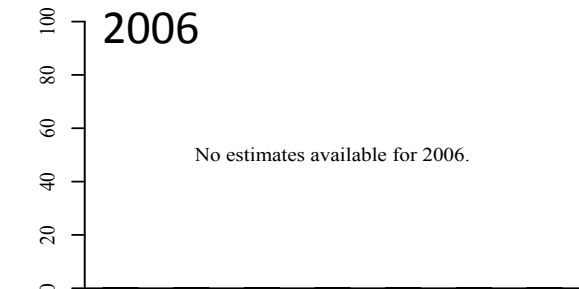
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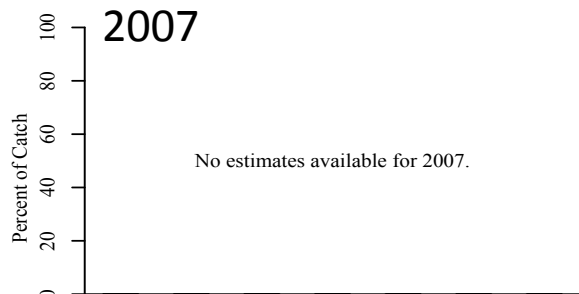
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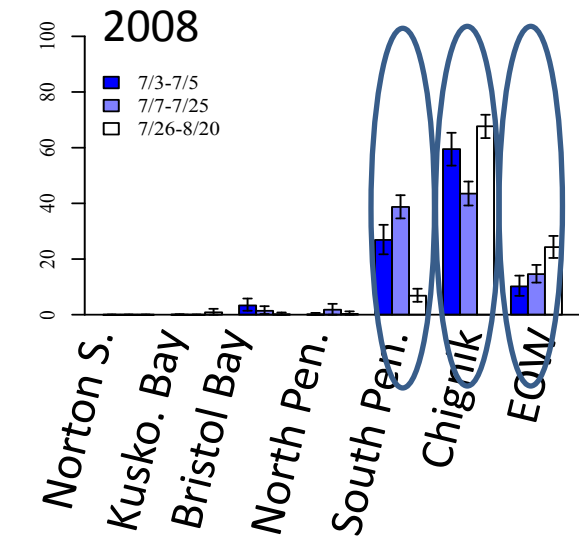
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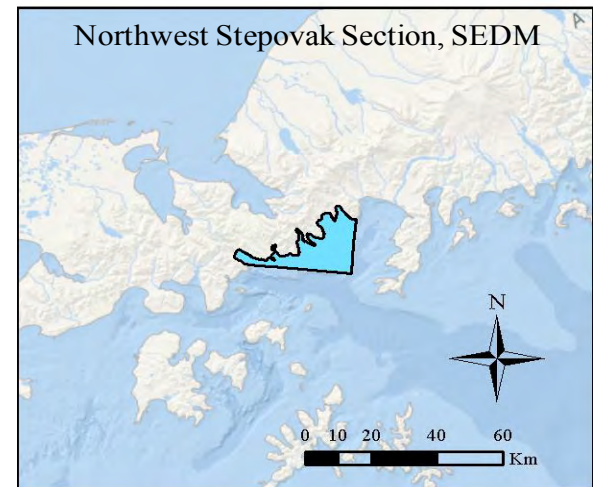
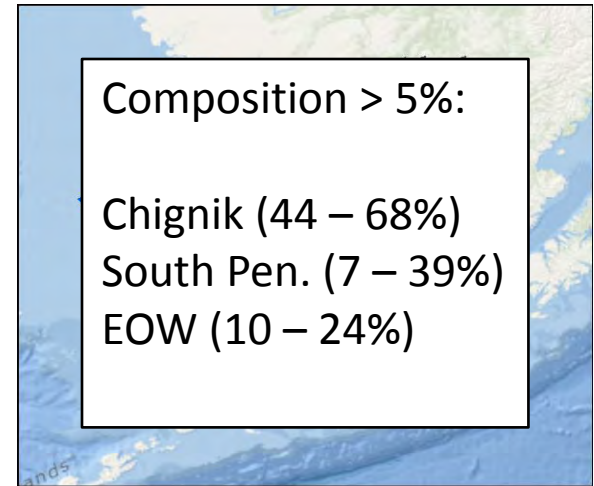
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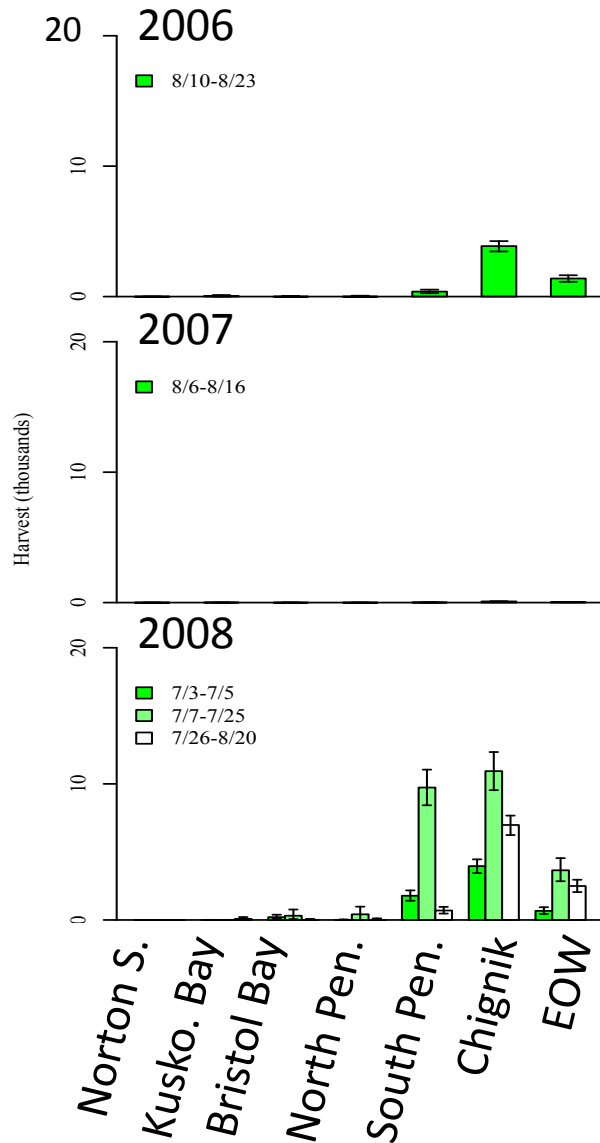
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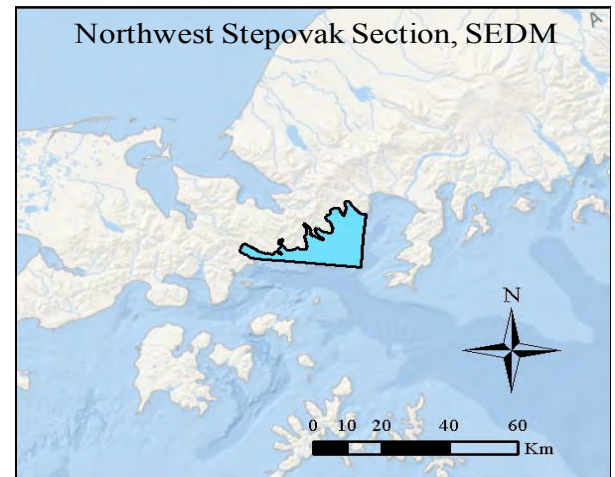
Northwest Stepovak Section: harvest numbers



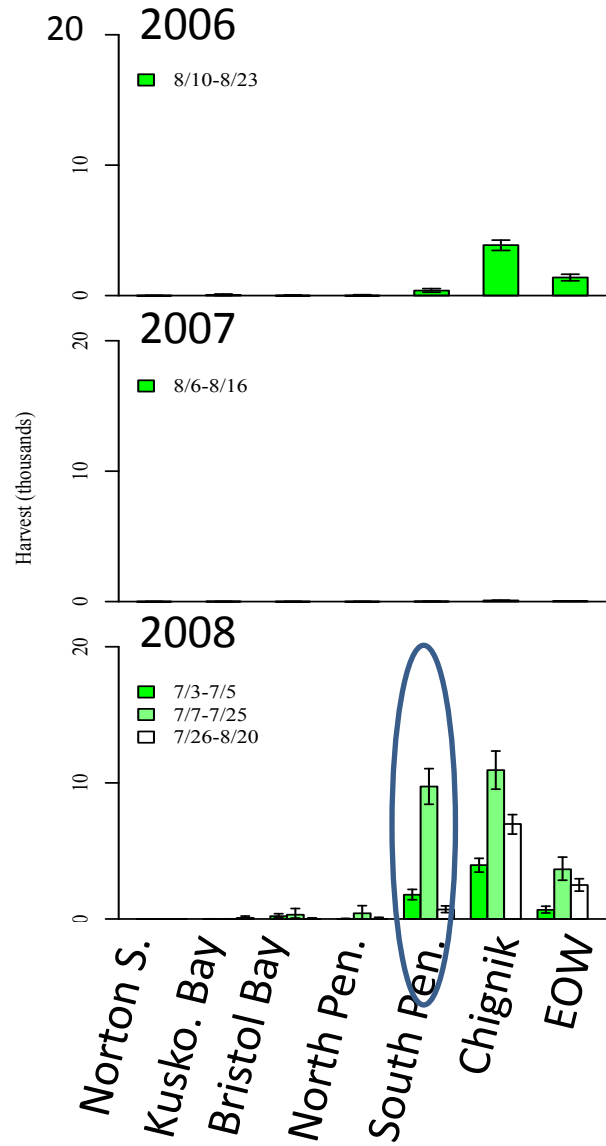
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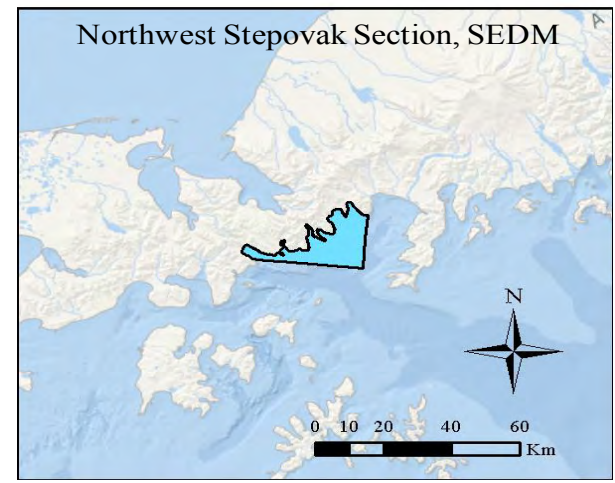
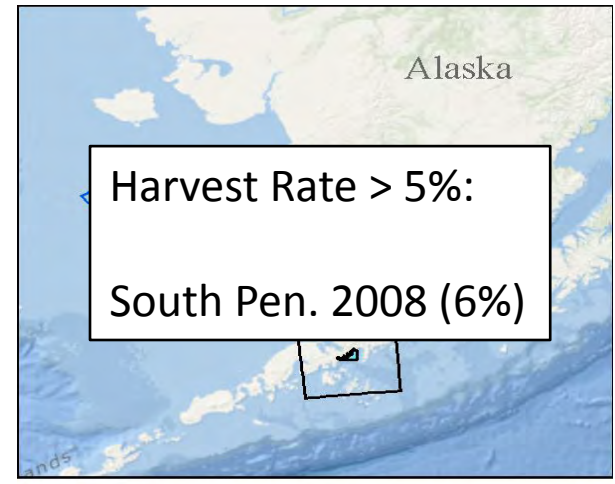
Northwest Stepovak Section: harvest numbers



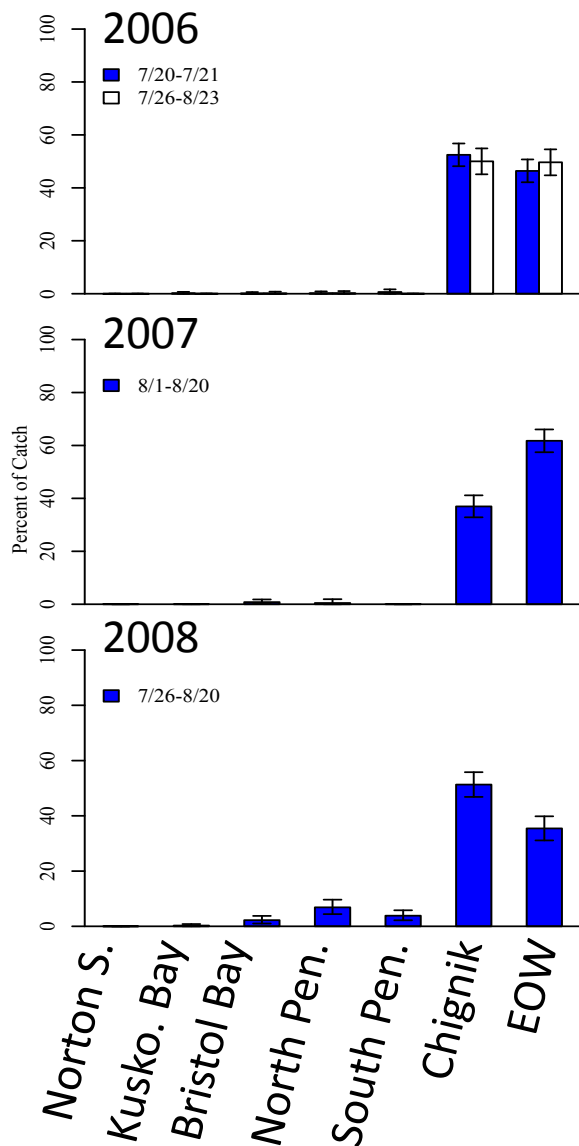
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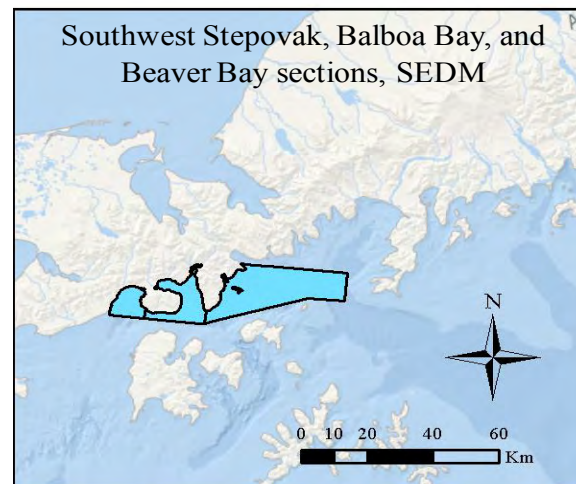
Southwest Stepovak, Balboa Bay, and Beaver Bay sections: stock compositions



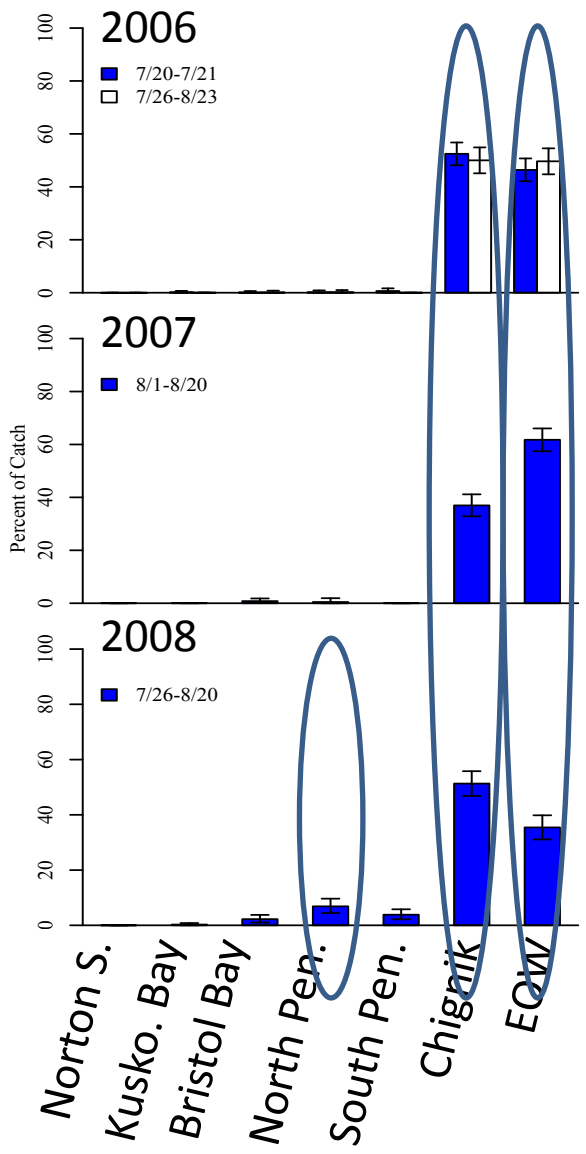
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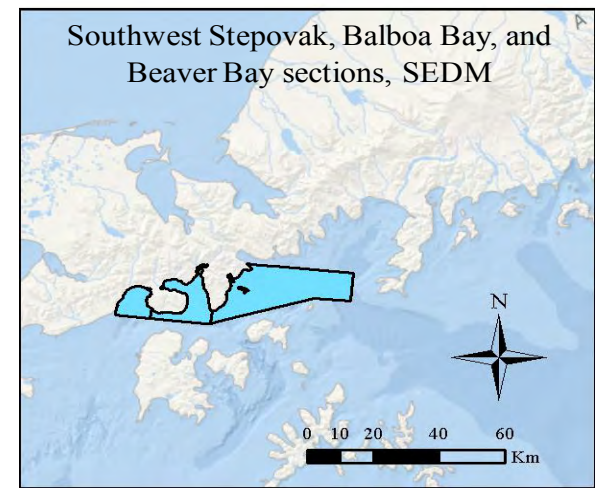
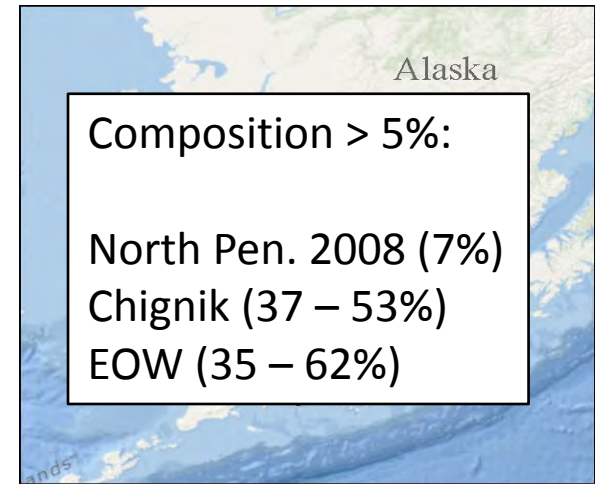
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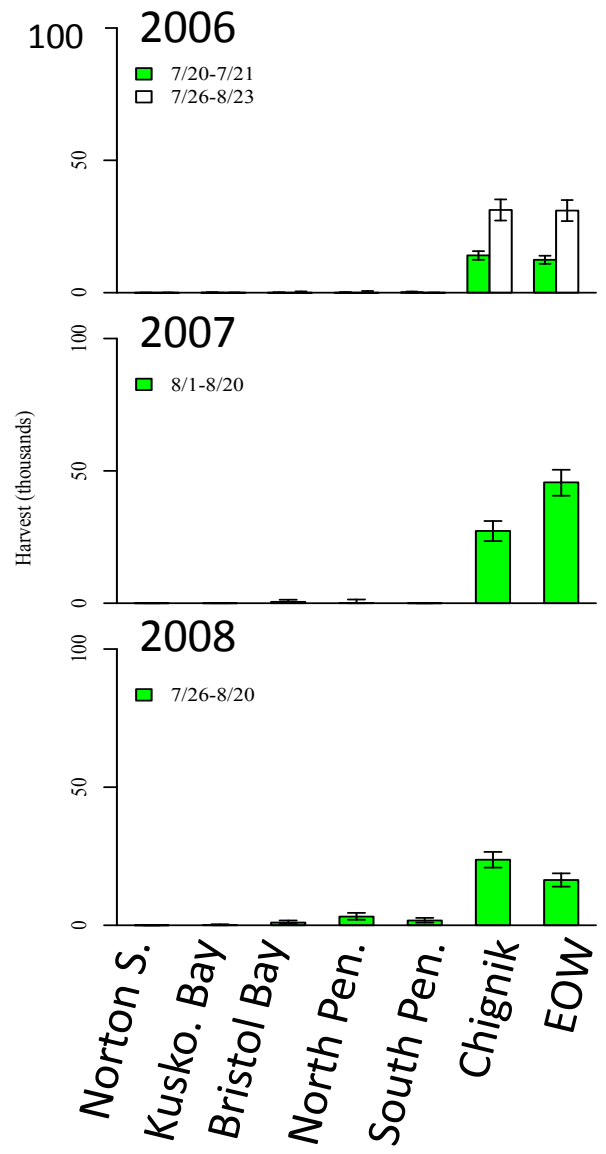
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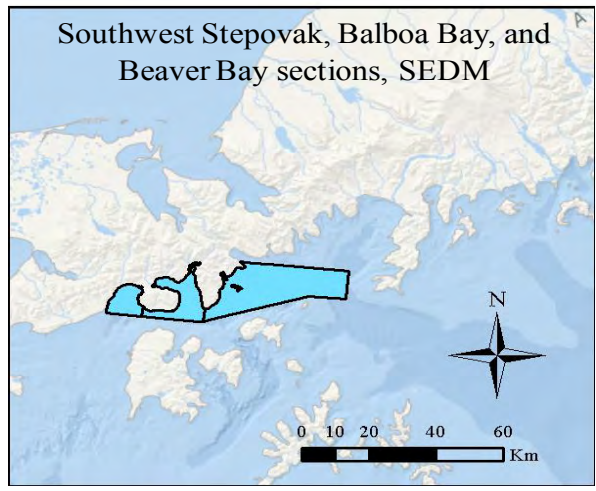
Southwest Stepovak, Balboa Bay, and Beaver Bay sections: harvest numbers



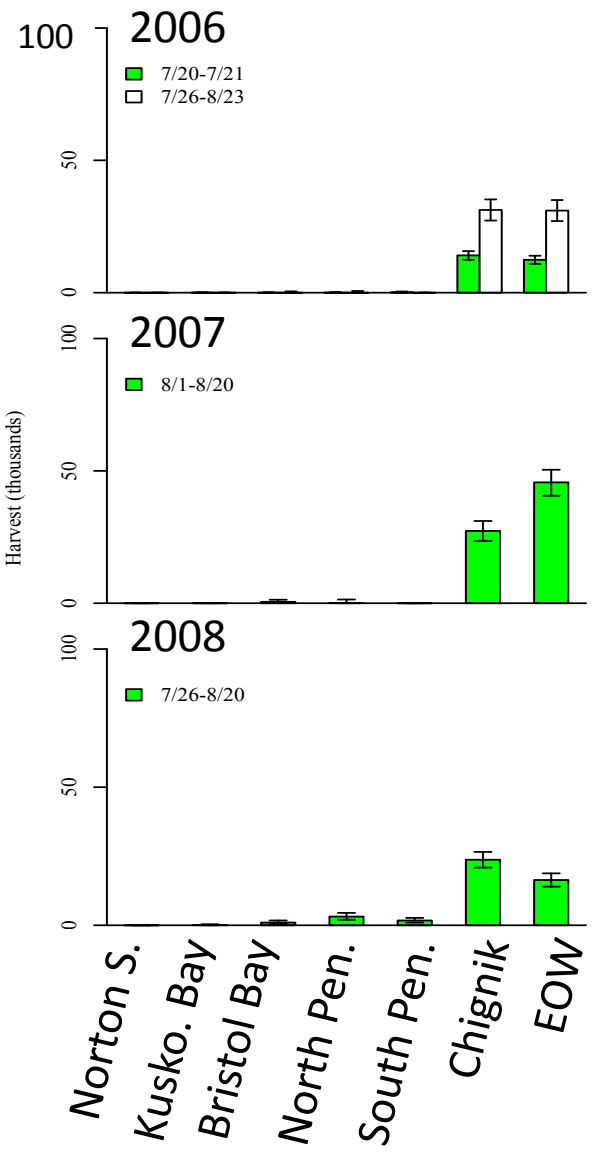
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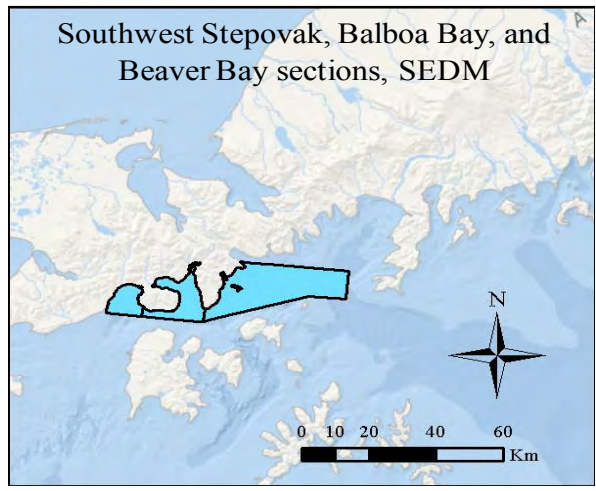
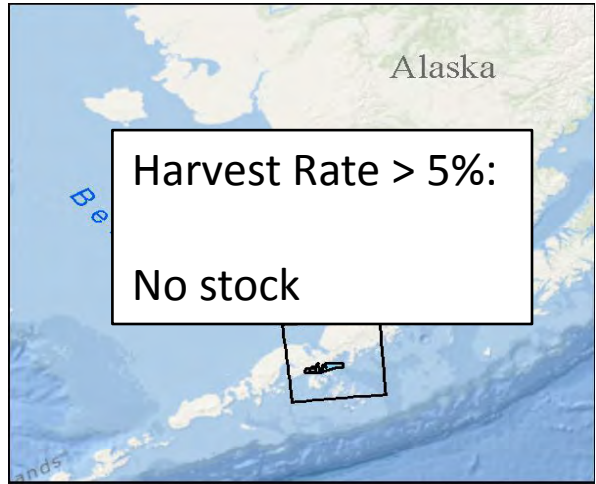
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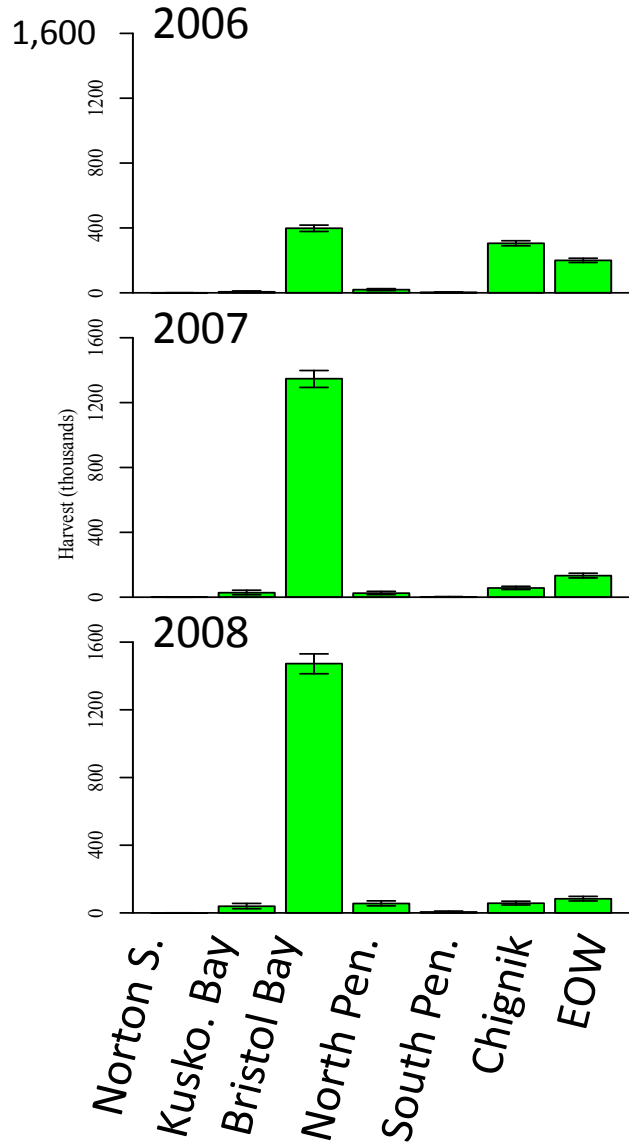
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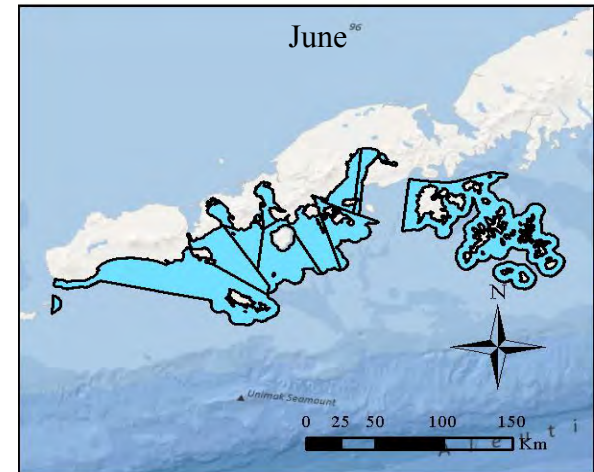
South Alaska Peninsula (June) : harvest numbers



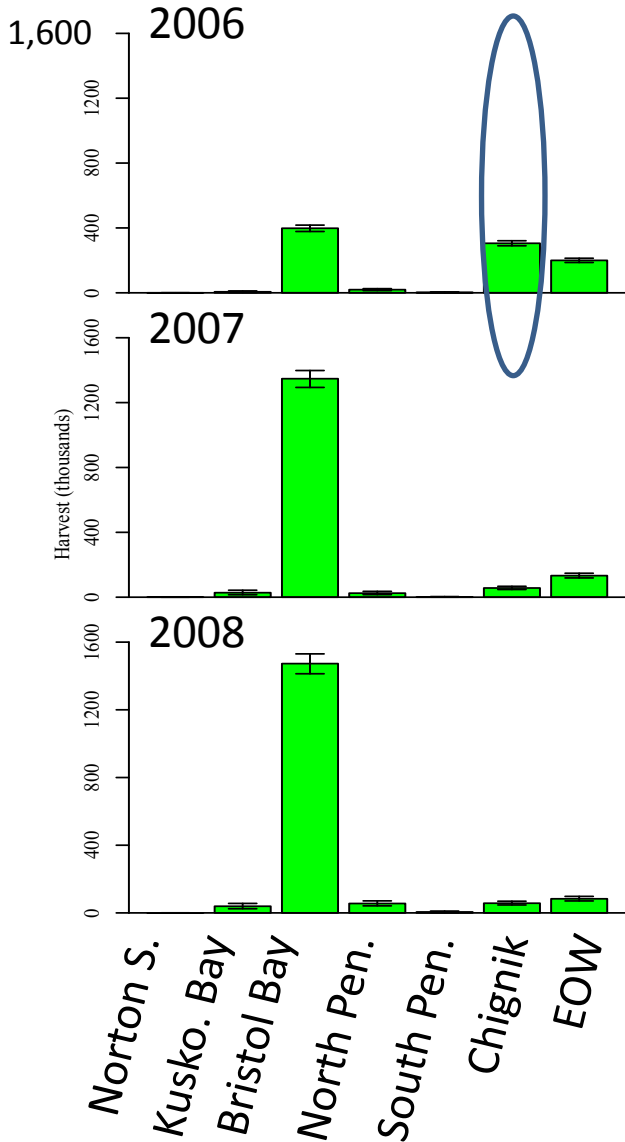
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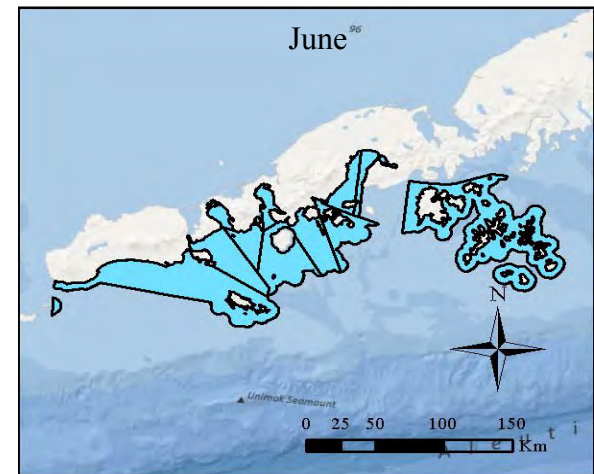
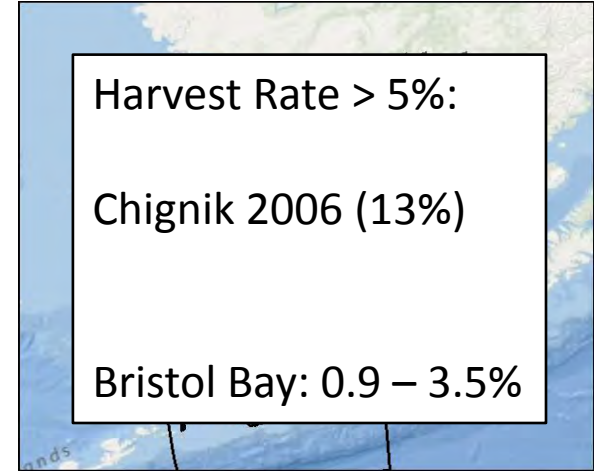
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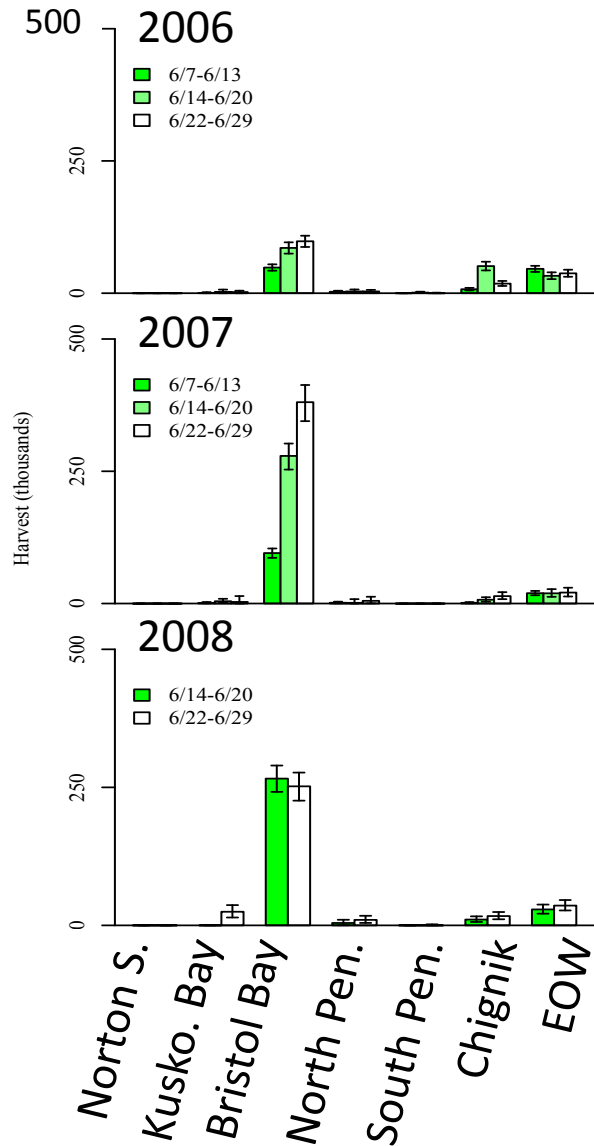
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No subregional reporting groups.

No subregional reporting groups.



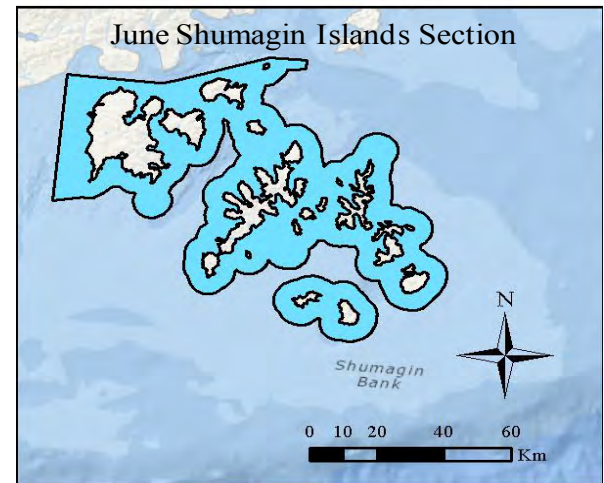
Shumagin Islands Section (June): harvest numbers



No subregional reporting groups.

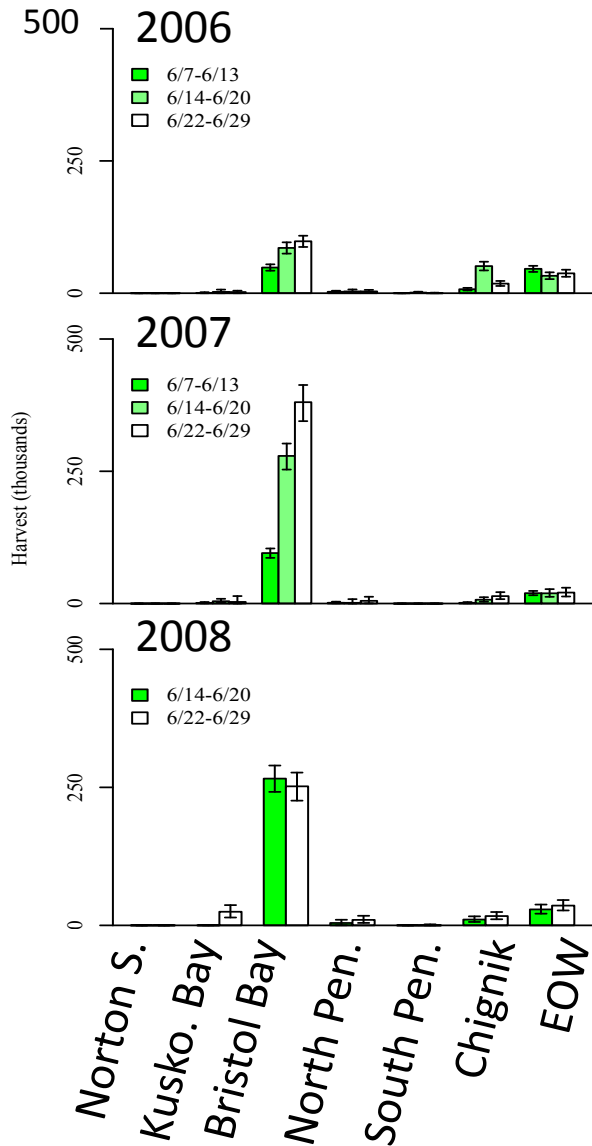


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No subregional reporting groups.

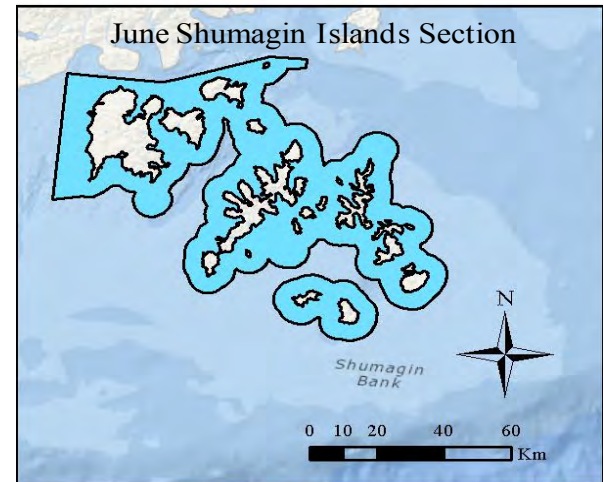
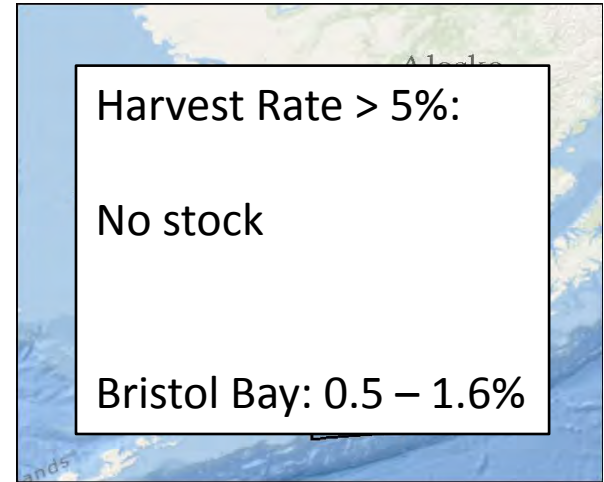
Shumagin Islands Section (June): harvest numbers



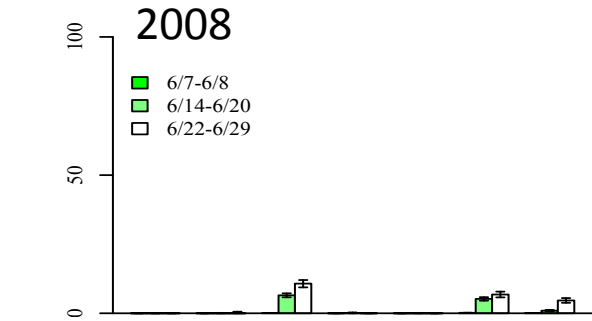
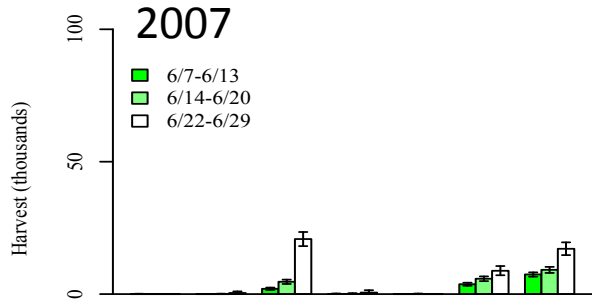
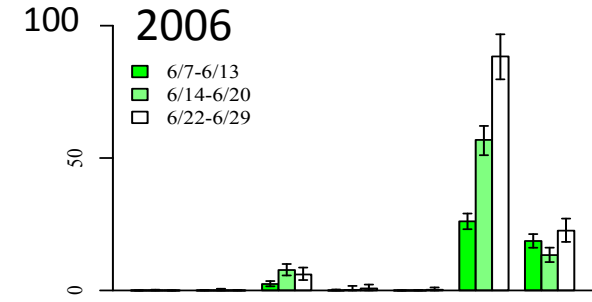
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No subregional reporting groups.

No subregional reporting groups.



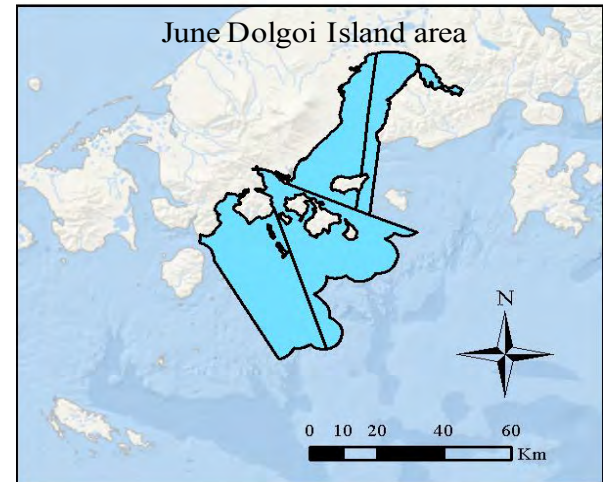
Dolgoi Island area (June): harvest numbers



No subregional reporting groups.

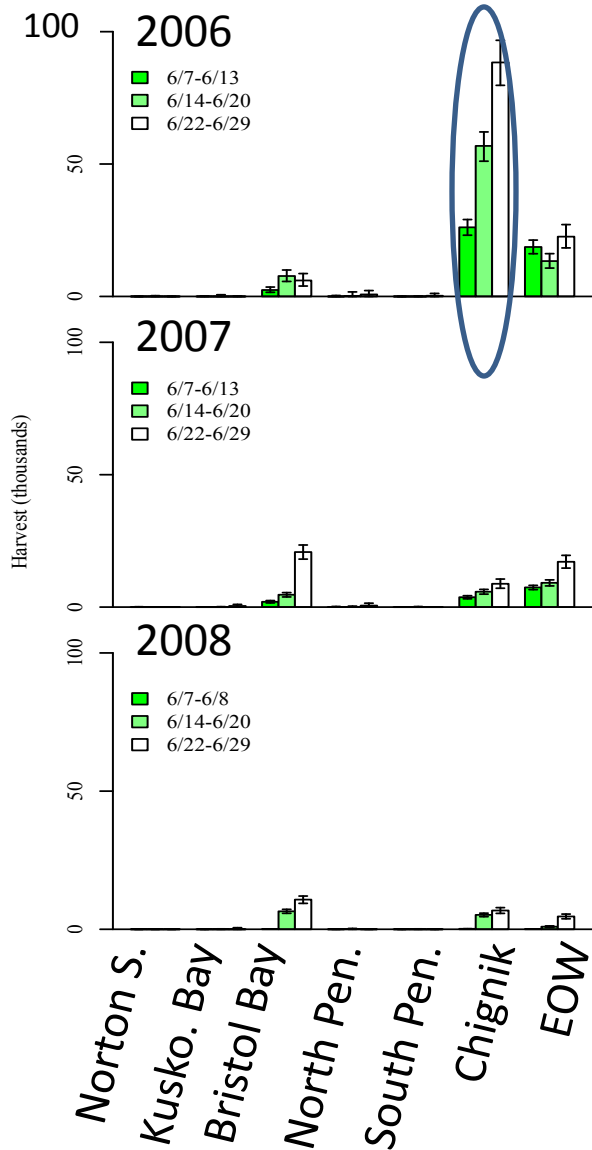
No subregional reporting groups.

No subregional reporting groups.



Norton S.
Kusko. Bay
Bristol Bay
North Pen.
South Pen.
Chignik
EOW

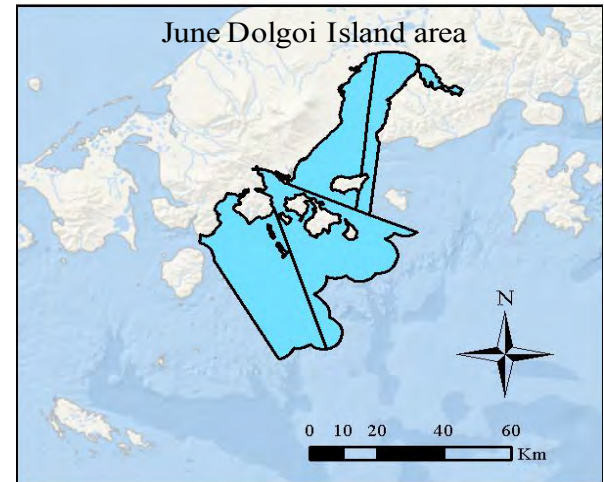
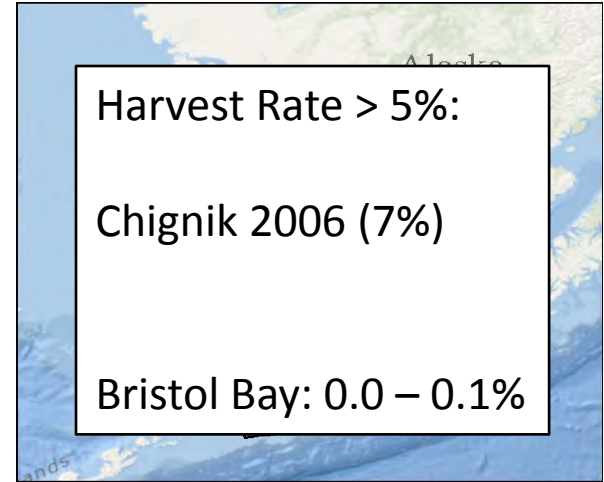
Dolgoi Island area (June): harvest numbers



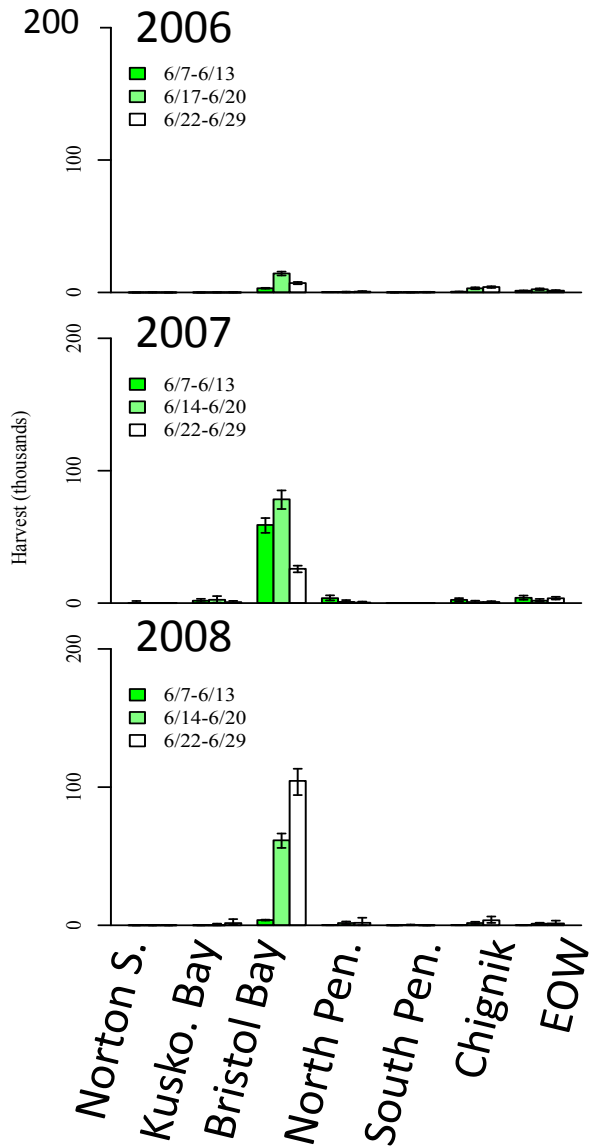
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No subregional reporting groups.

No subregional reporting groups.



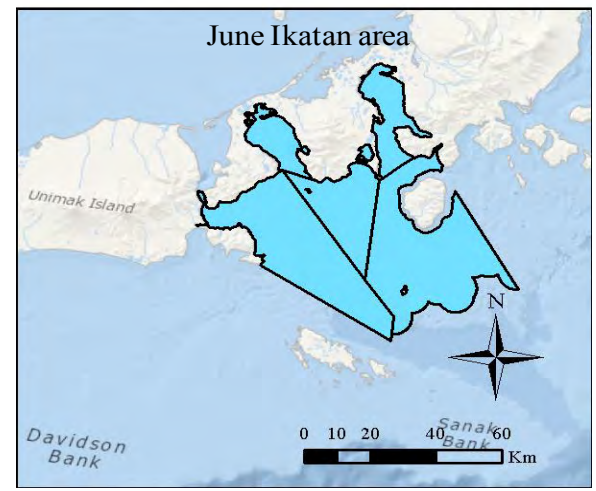
Ikatan Area (June): harvest numbers



No subregional reporting groups.

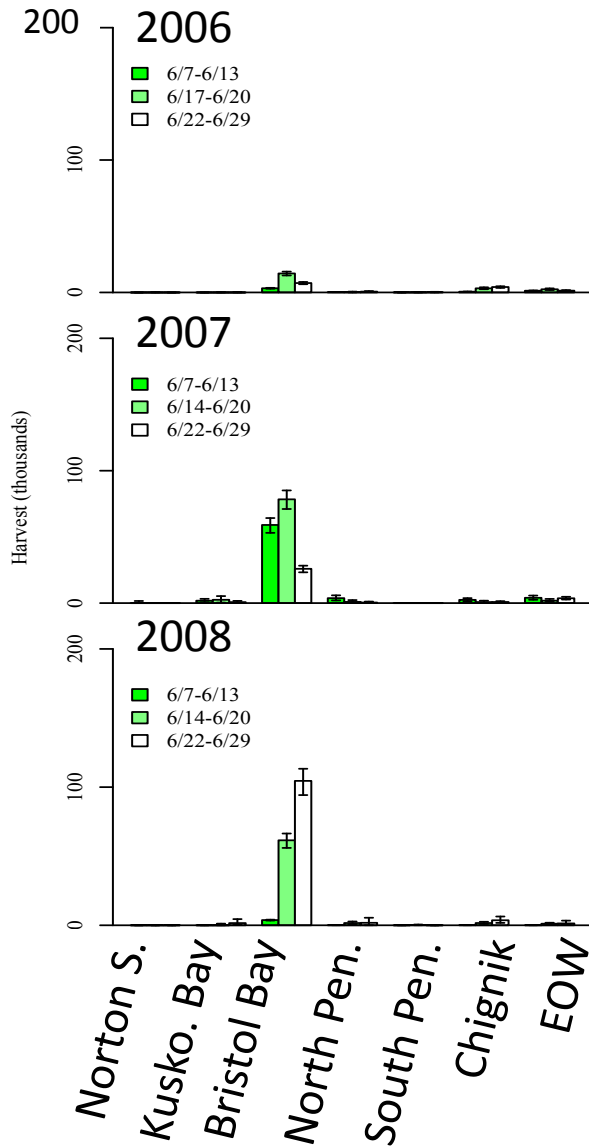


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No subregional reporting groups.

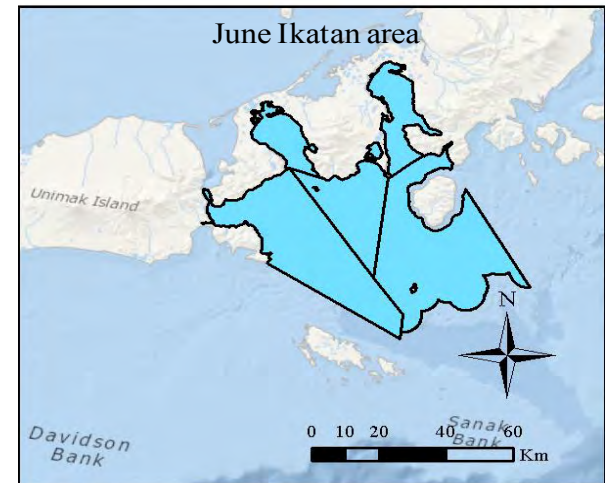
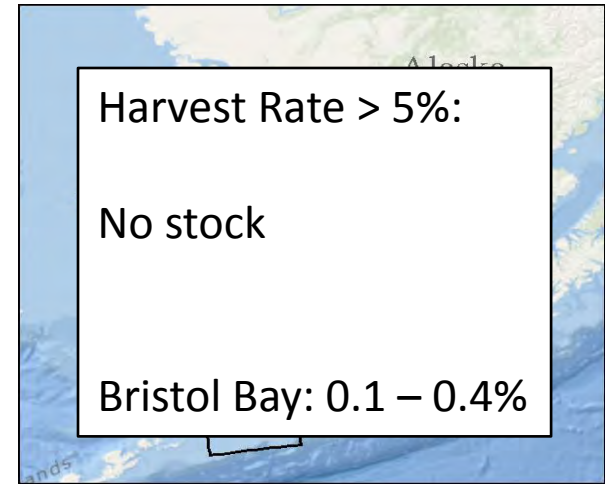
Ikatan Area (June): harvest numbers



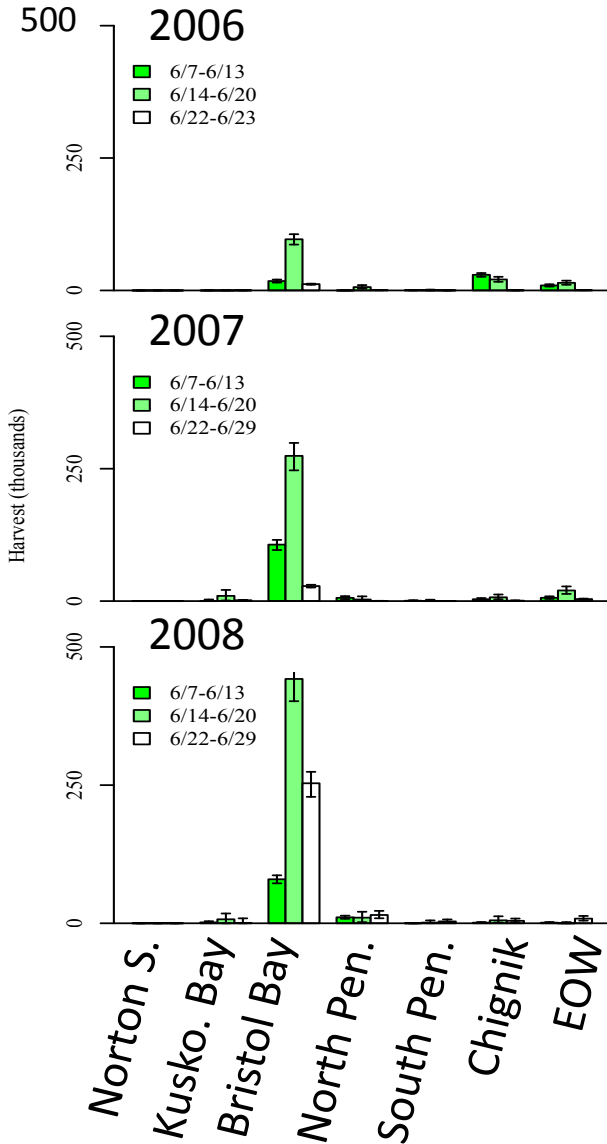
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No subregional reporting groups.

No subregional reporting groups.



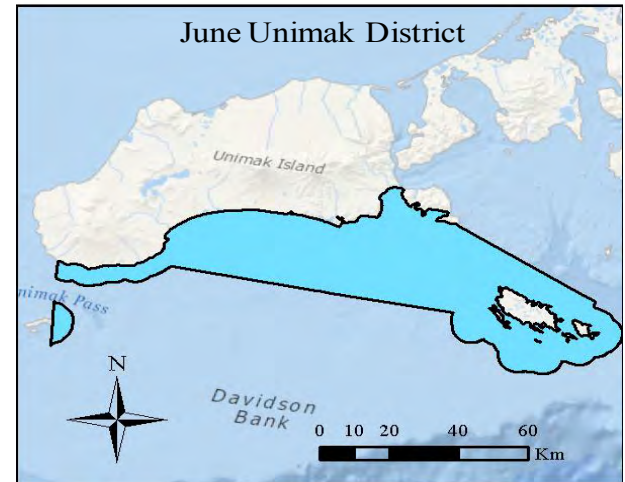
Unimak District (June): harvest numbers



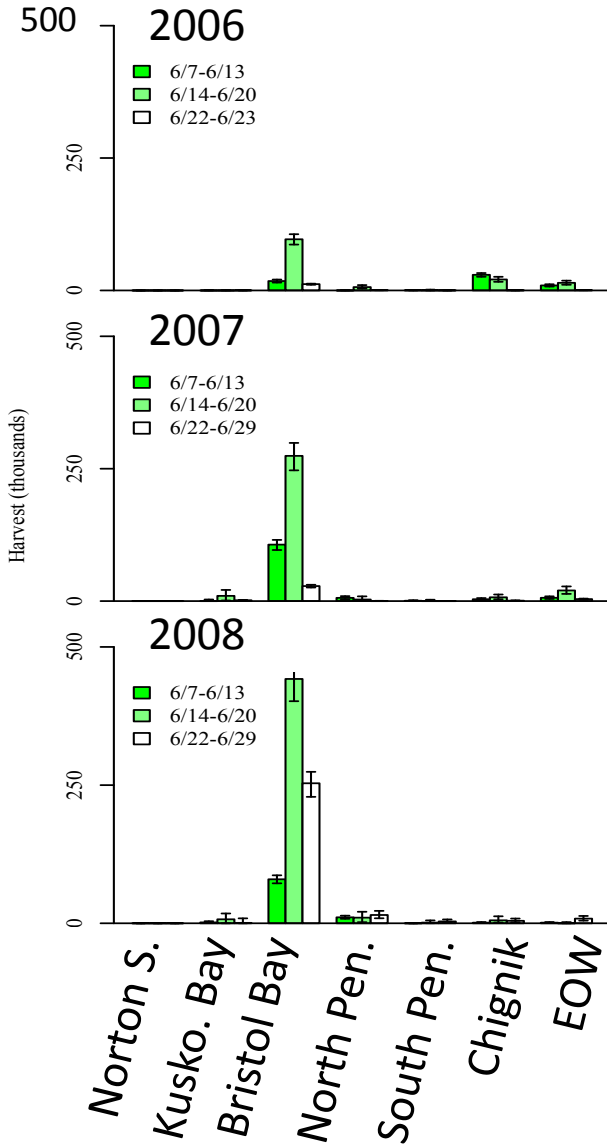
No subregional reporting groups.

No subregional reporting groups.

No subregional reporting groups.



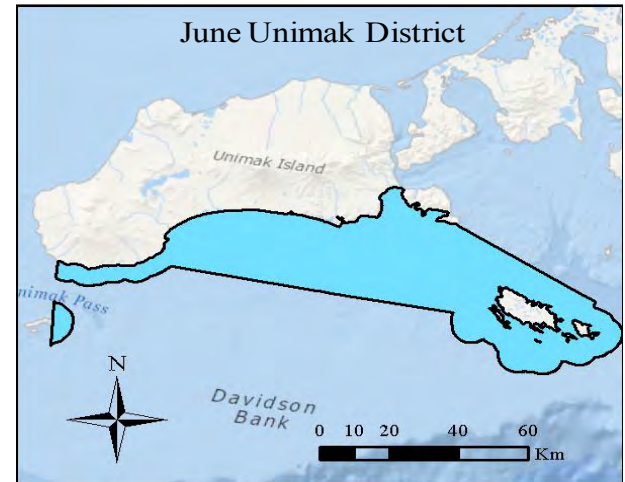
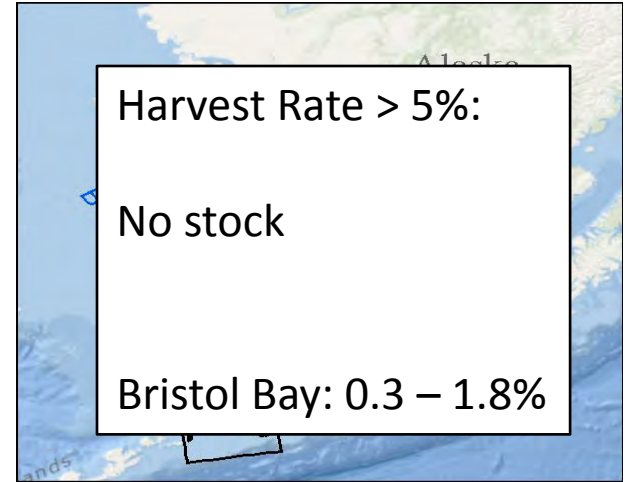
Unimak District (June): harvest numbers



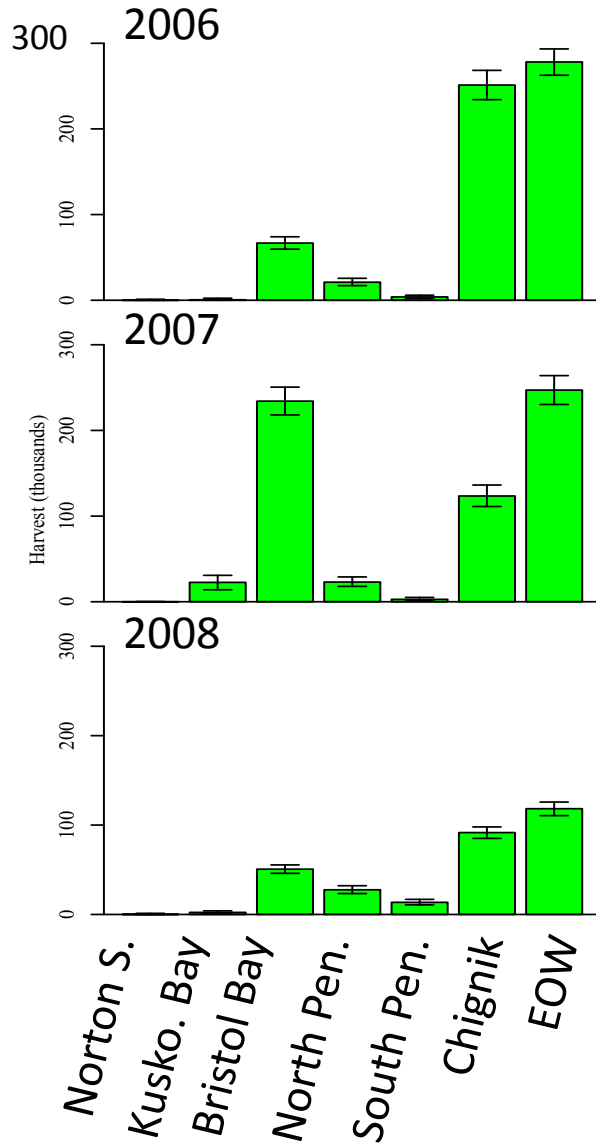
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No subregional reporting groups.

No subregional reporting groups.



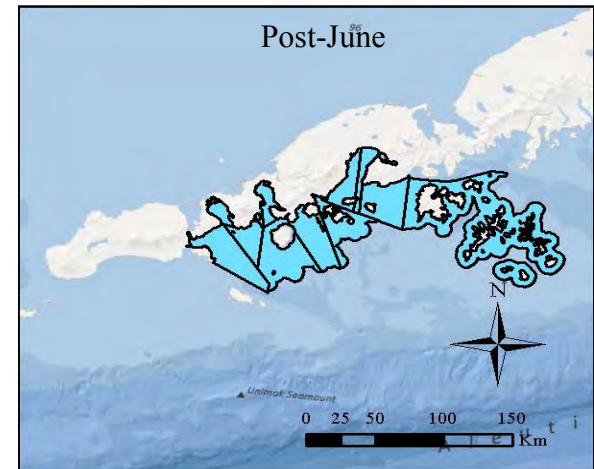
South Alaska Peninsula (post-June): harvest numbers



No subregional reporting groups.

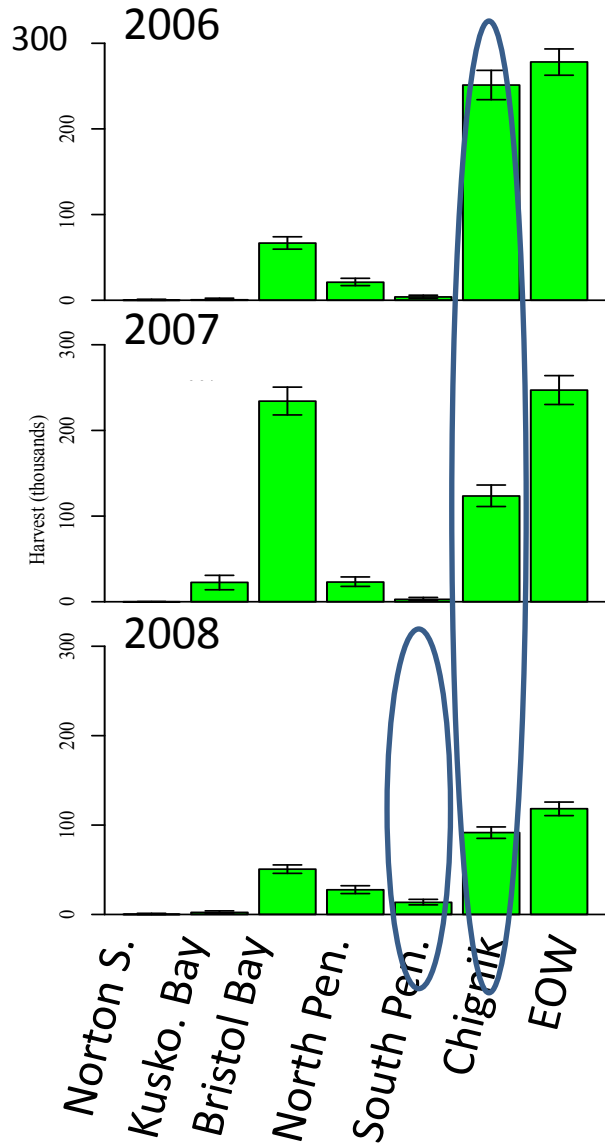


No subregional reporting groups.



No subregional reporting groups.

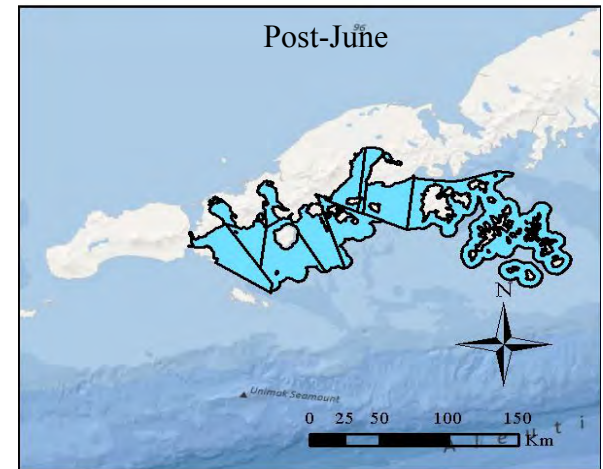
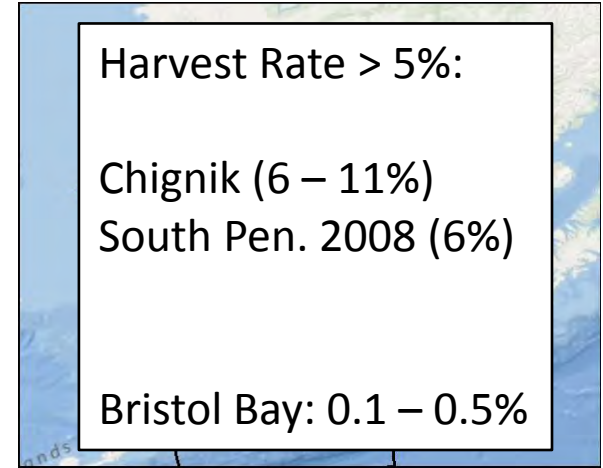
South Alaska Peninsula (post-June): harvest numbers



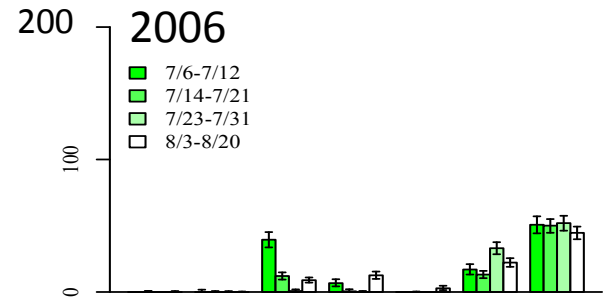
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No subregional reporting groups.

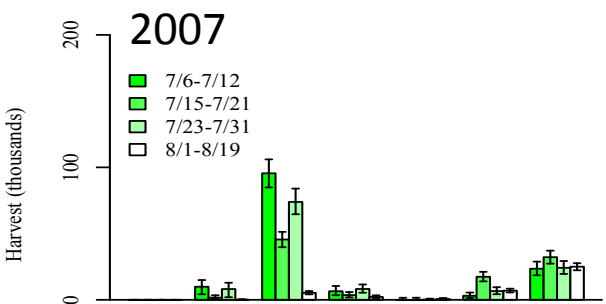
No subregional reporting groups.



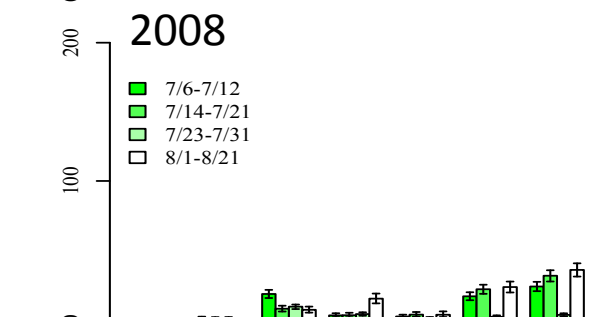
Shumagin Islands Section (post-June): harvest numbers



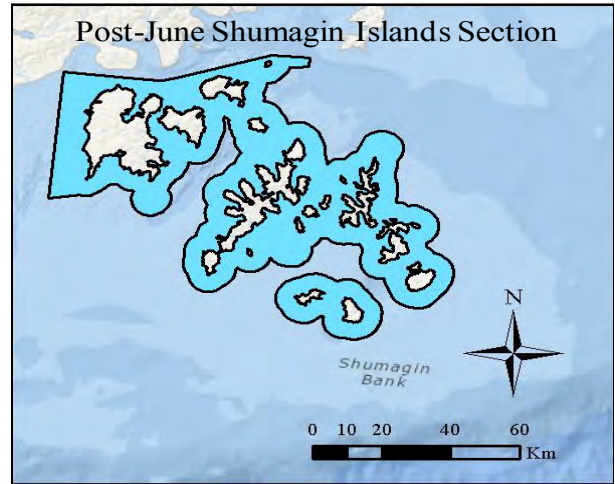
No subregional reporting groups.



No subregional reporting groups.

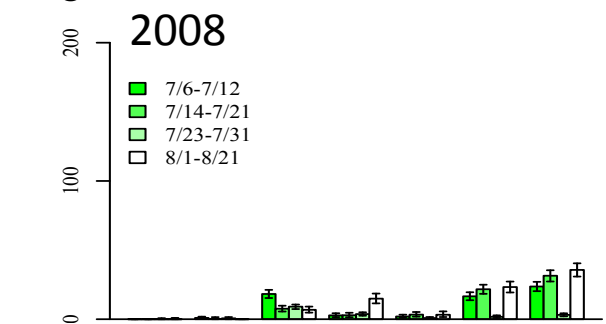
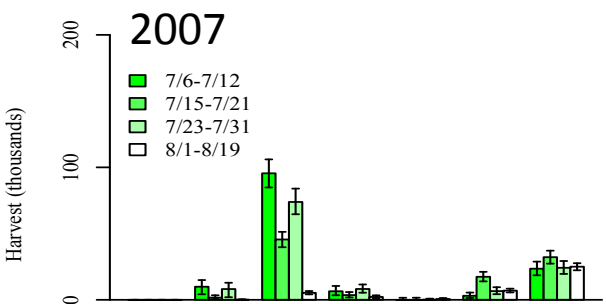
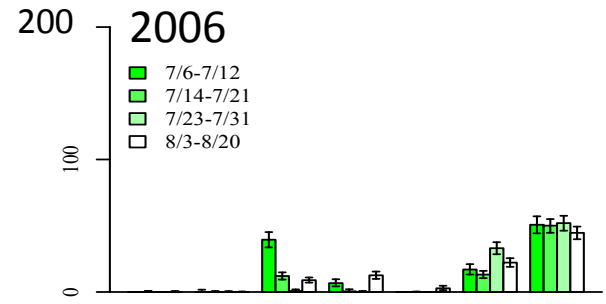


No subregional reporting groups.



Norton S.
Kusko. Bay
Bristol Bay
North Pen.
South Pen.
Chignik
EOW

Shumagin Islands Section (post-June): harvest numbers

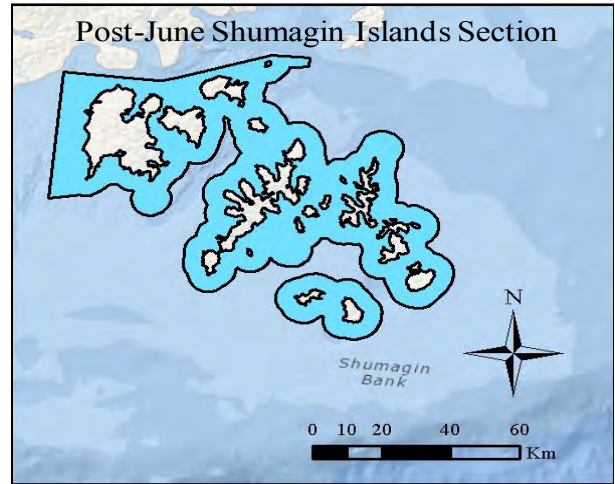
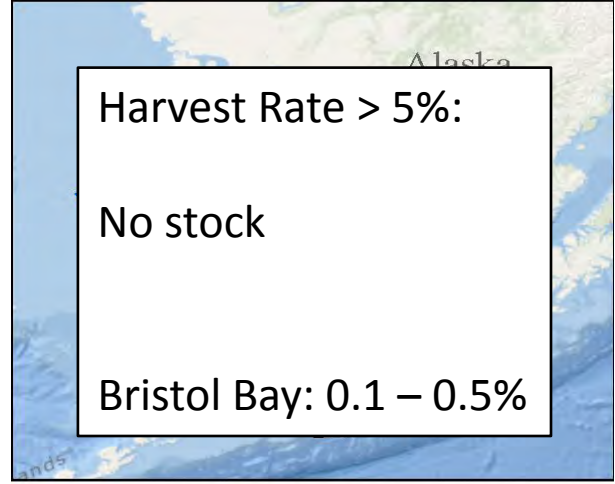


Norton S.
 Kusko. Bay
 Bristol Bay
 North Pen.
 South Pen.
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 EOW

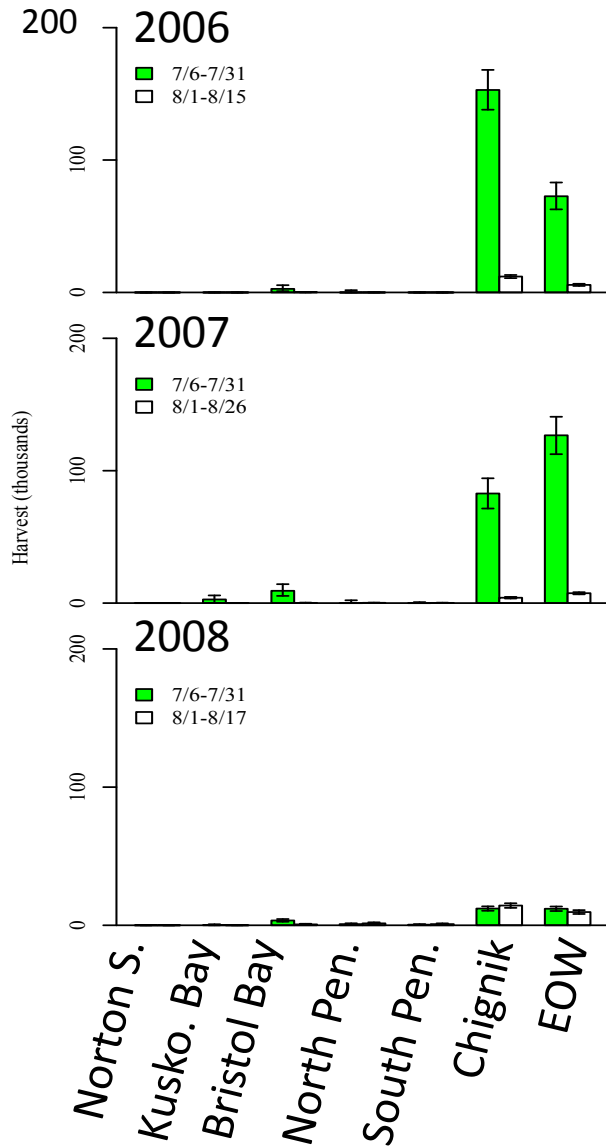
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No subregional reporting groups.

No subregional reporting groups.



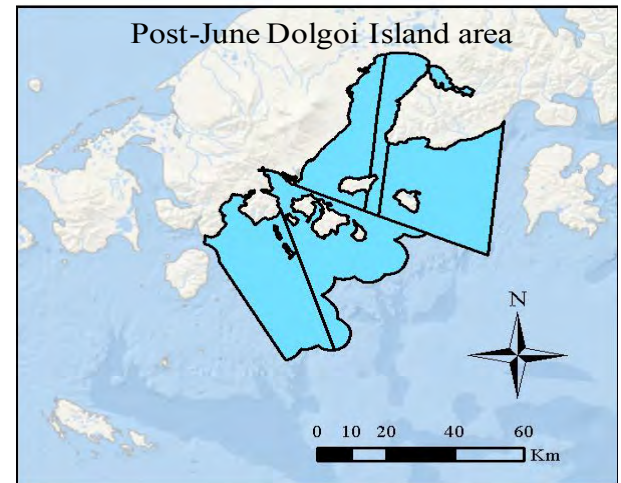
Dolgoi Island area (post-June): harvest numbers



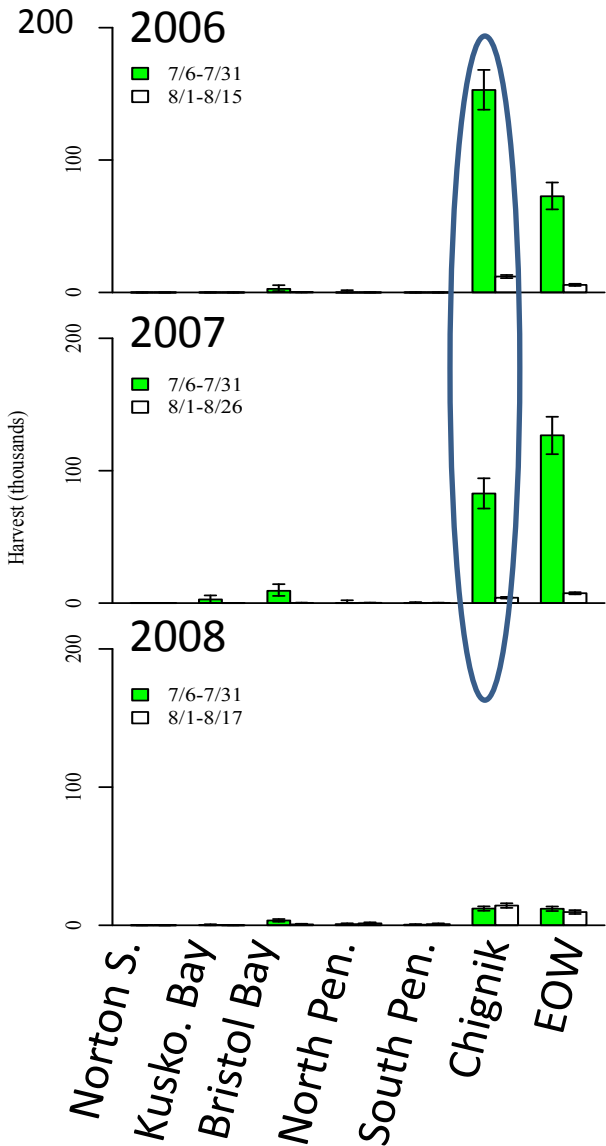
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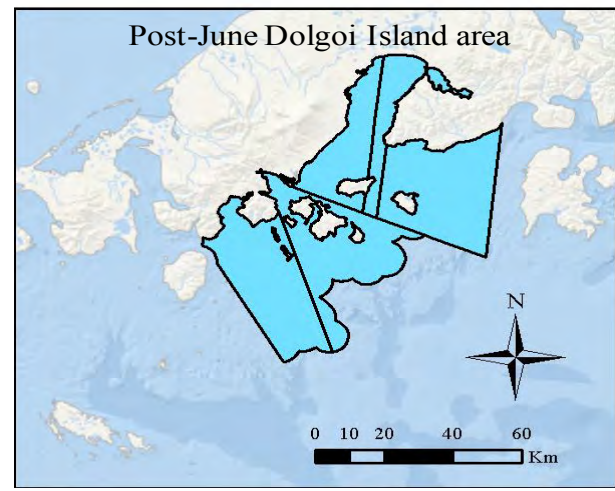
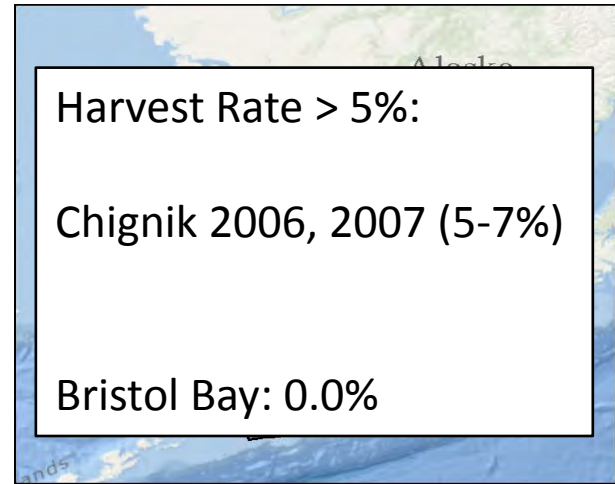
Dolgoi Island area (post-June): harvest numbers



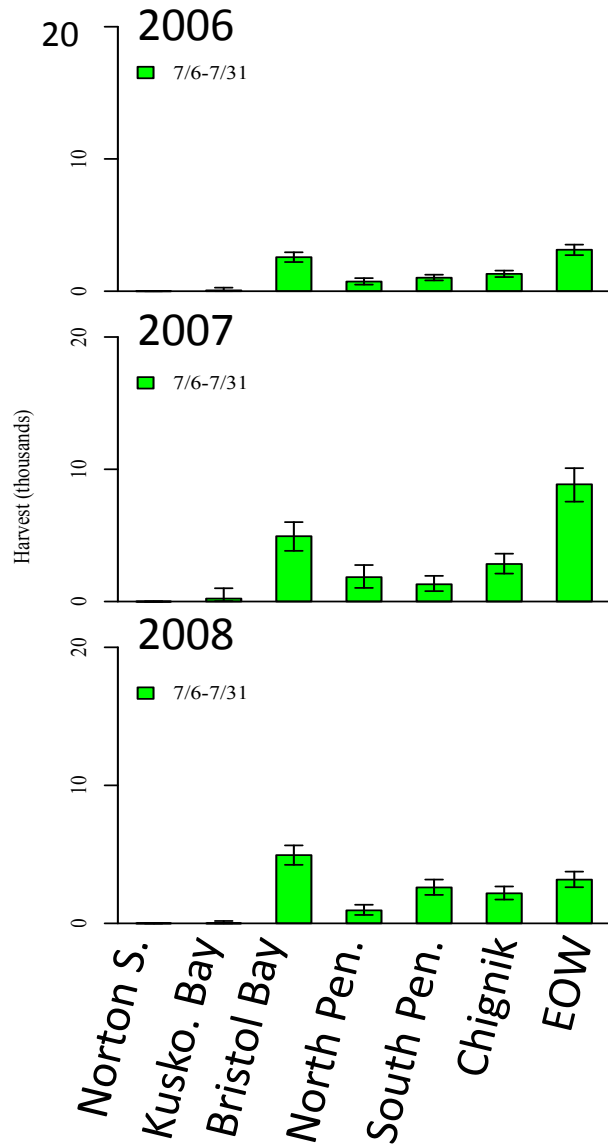
No subregional reporting groups.

No subregional reporting groups.

No subregional reporting groups.



Ikatan area (post-June): harvest numbers

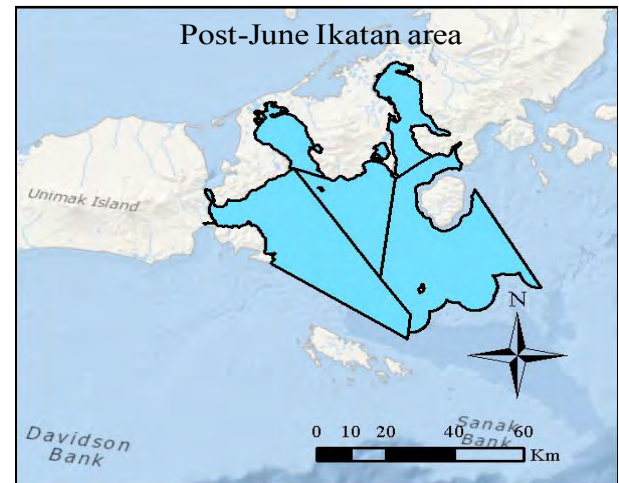


No subregional reporting groups.

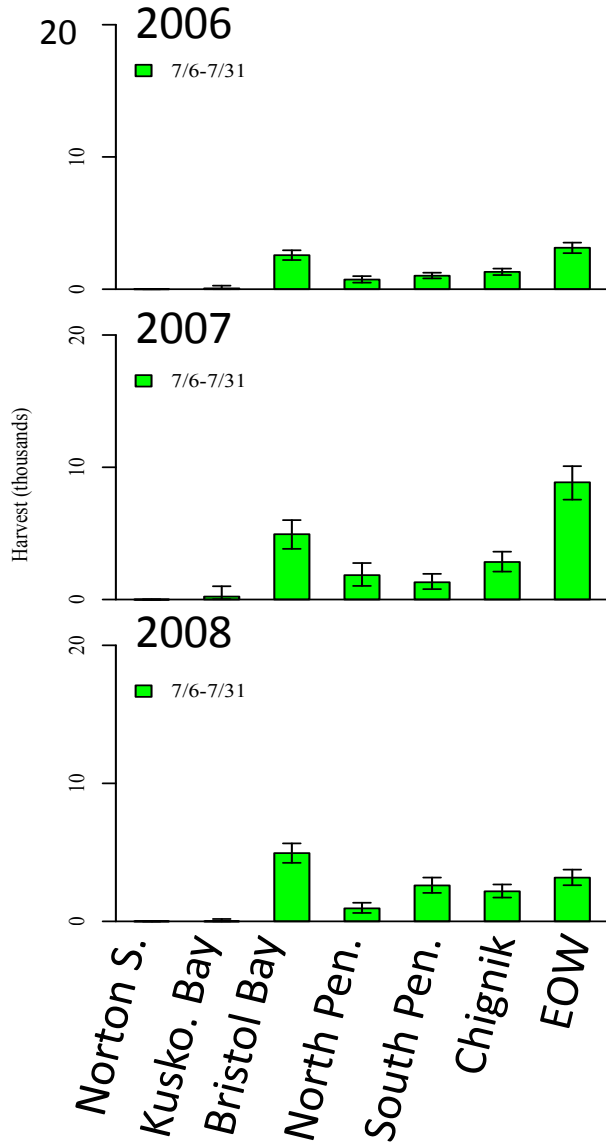


No subregional reporting groups.

No subregional reporting groups.



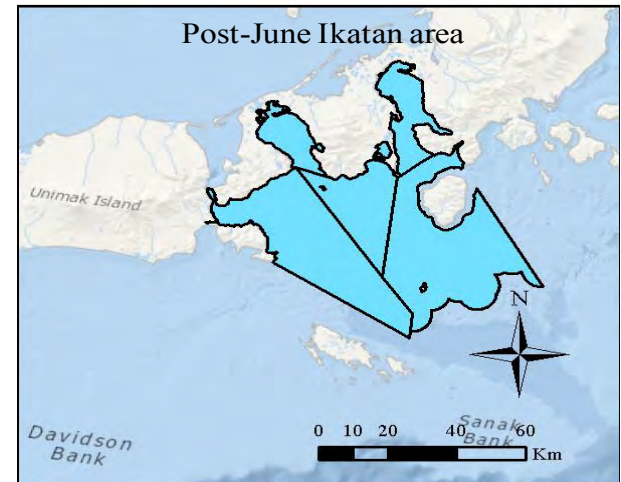
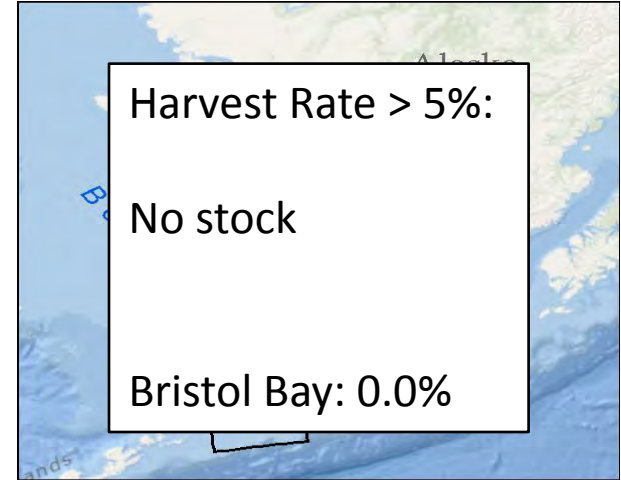
Ikatan area (post-June): harvest numbers



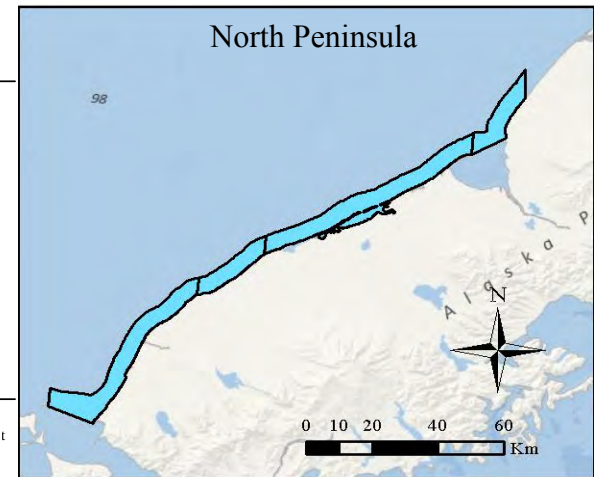
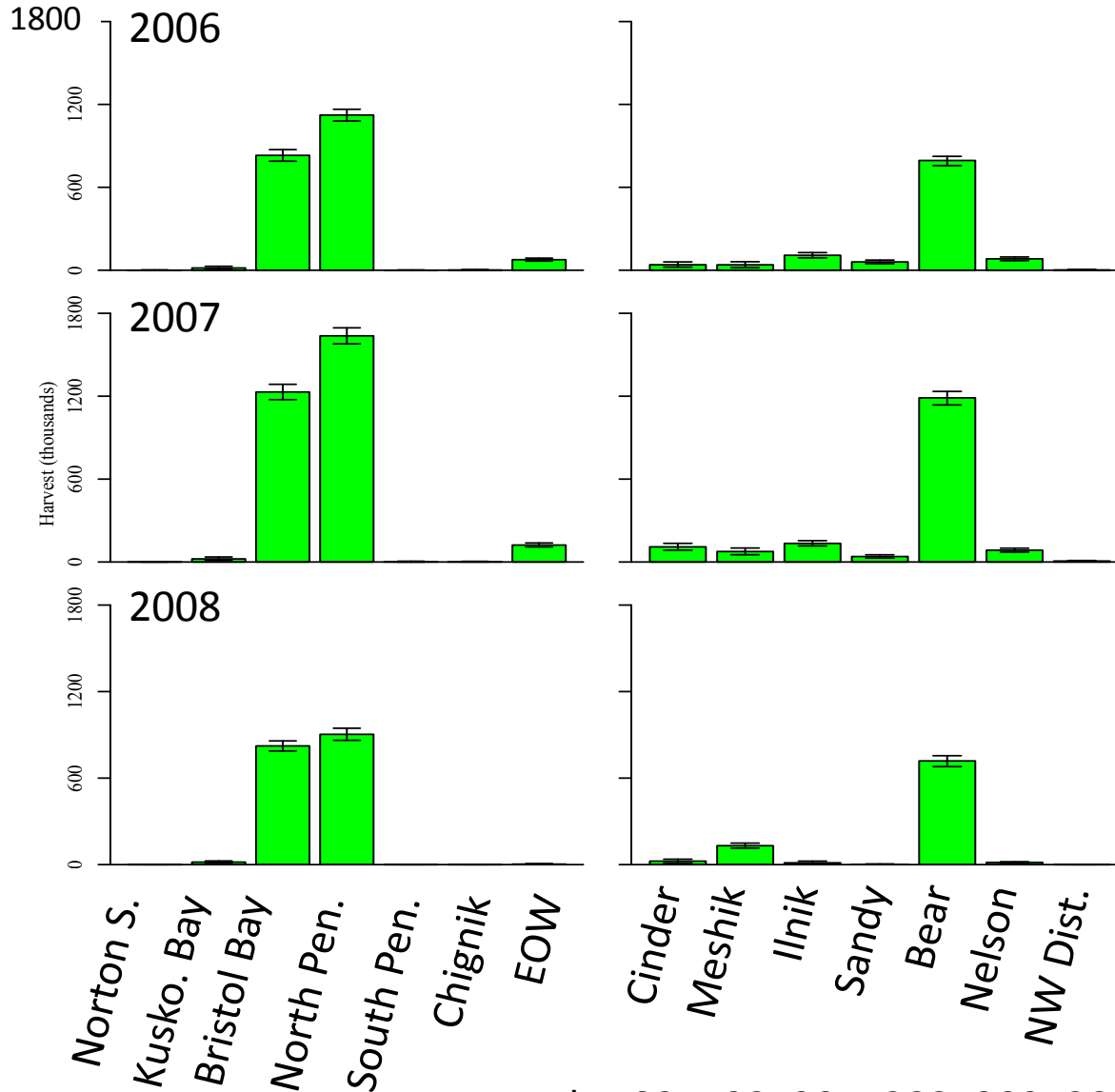
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No subregional reporting groups.

No subregional reporting groups.

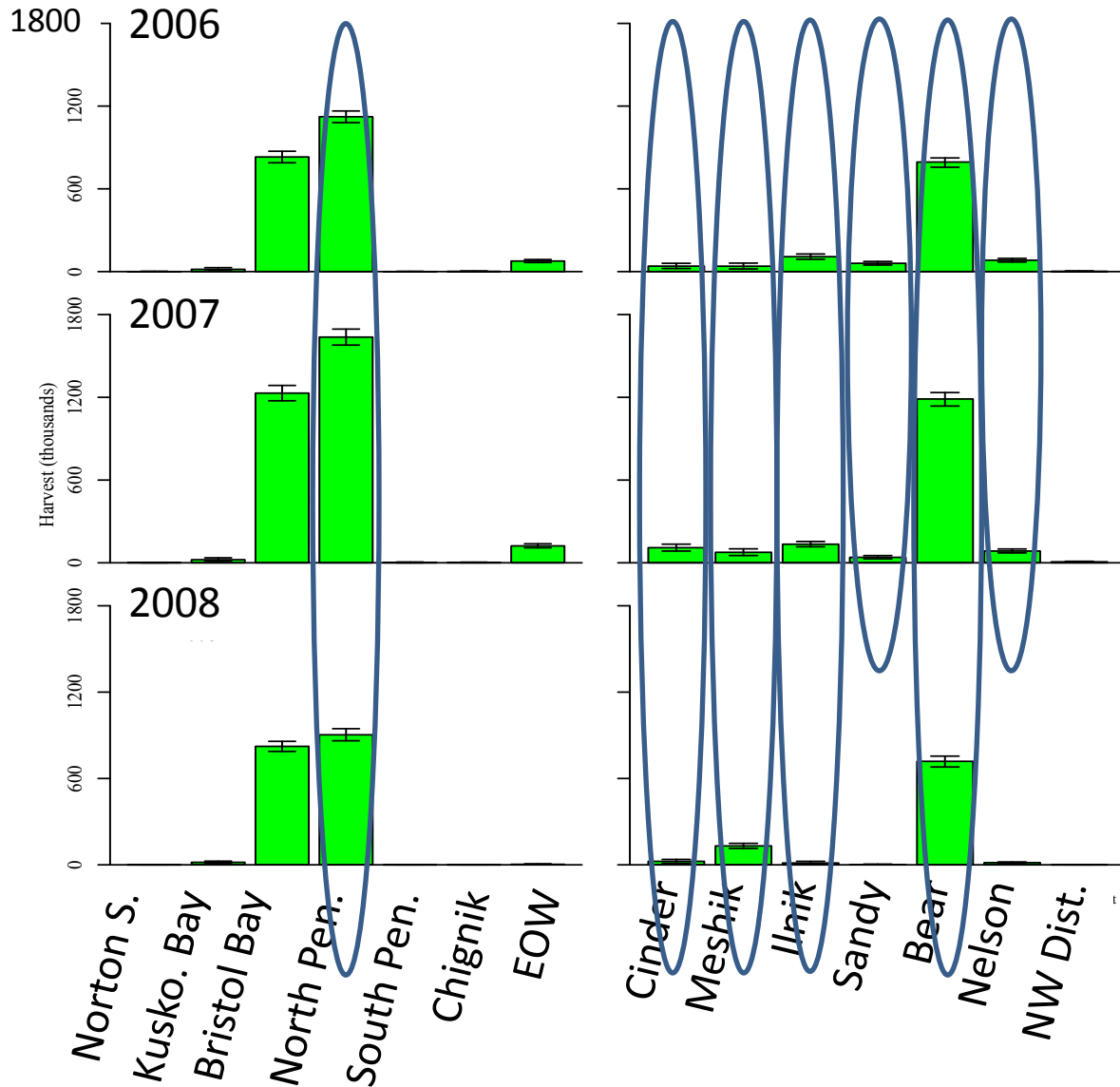


North Alaska Peninsula: harvest numbers





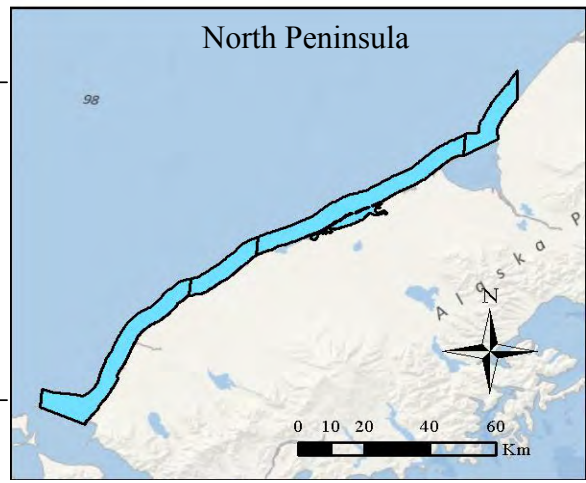
North Alaska Peninsula: harvest numbers



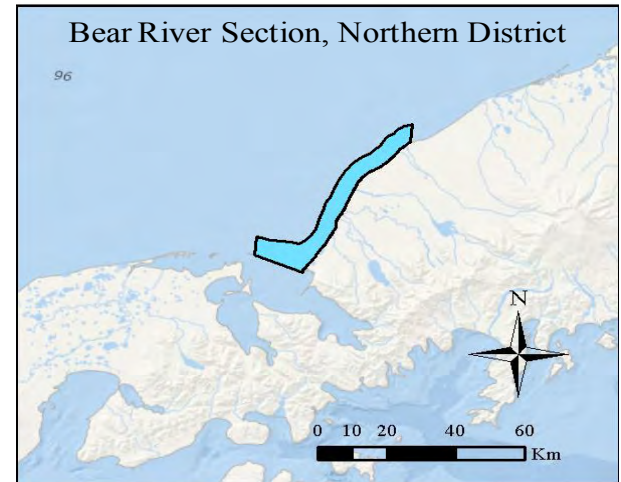
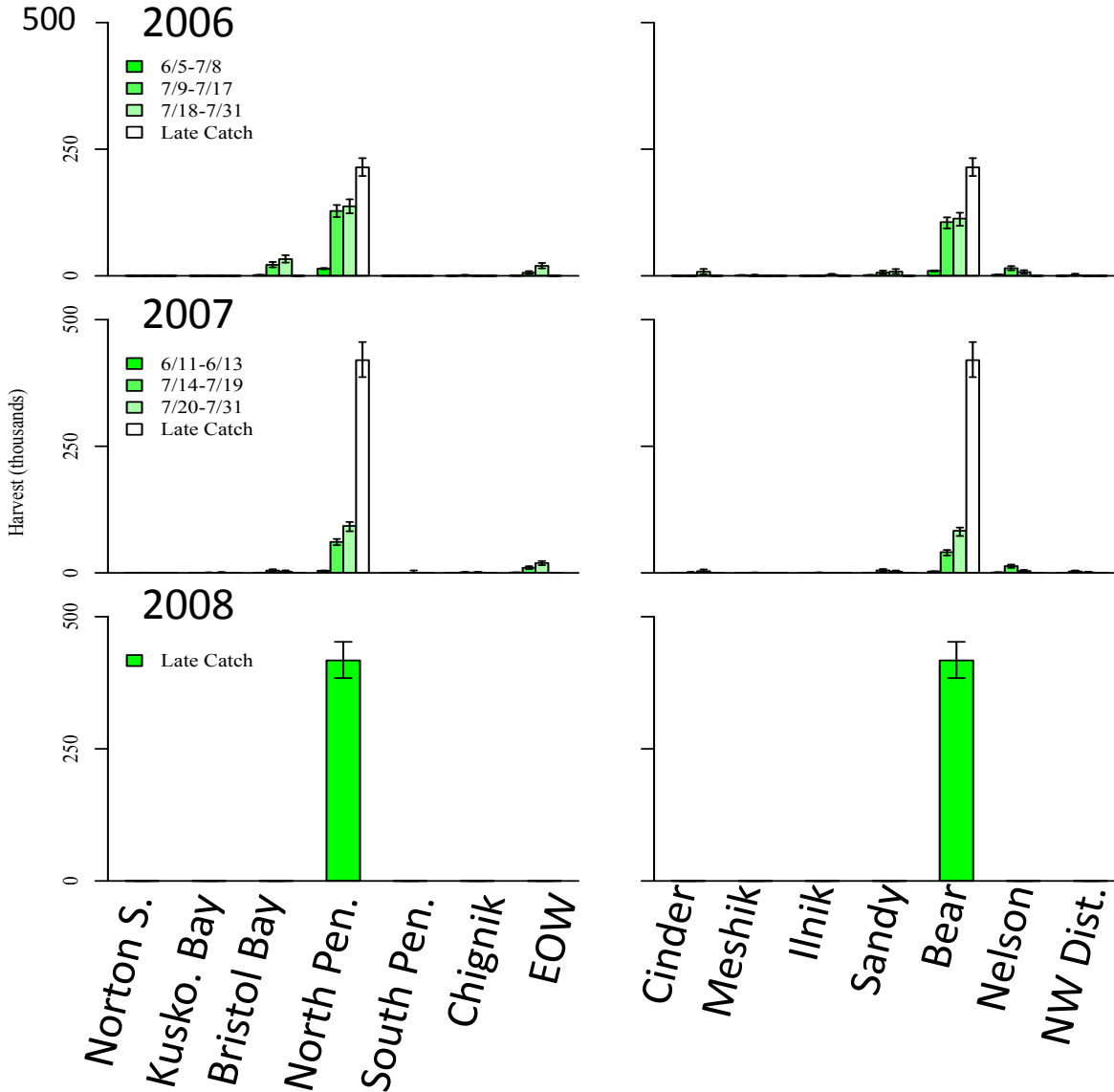
Harvest Rate > 5%:

North Peninsula (31-45%)
Subregional (0 – 62%)

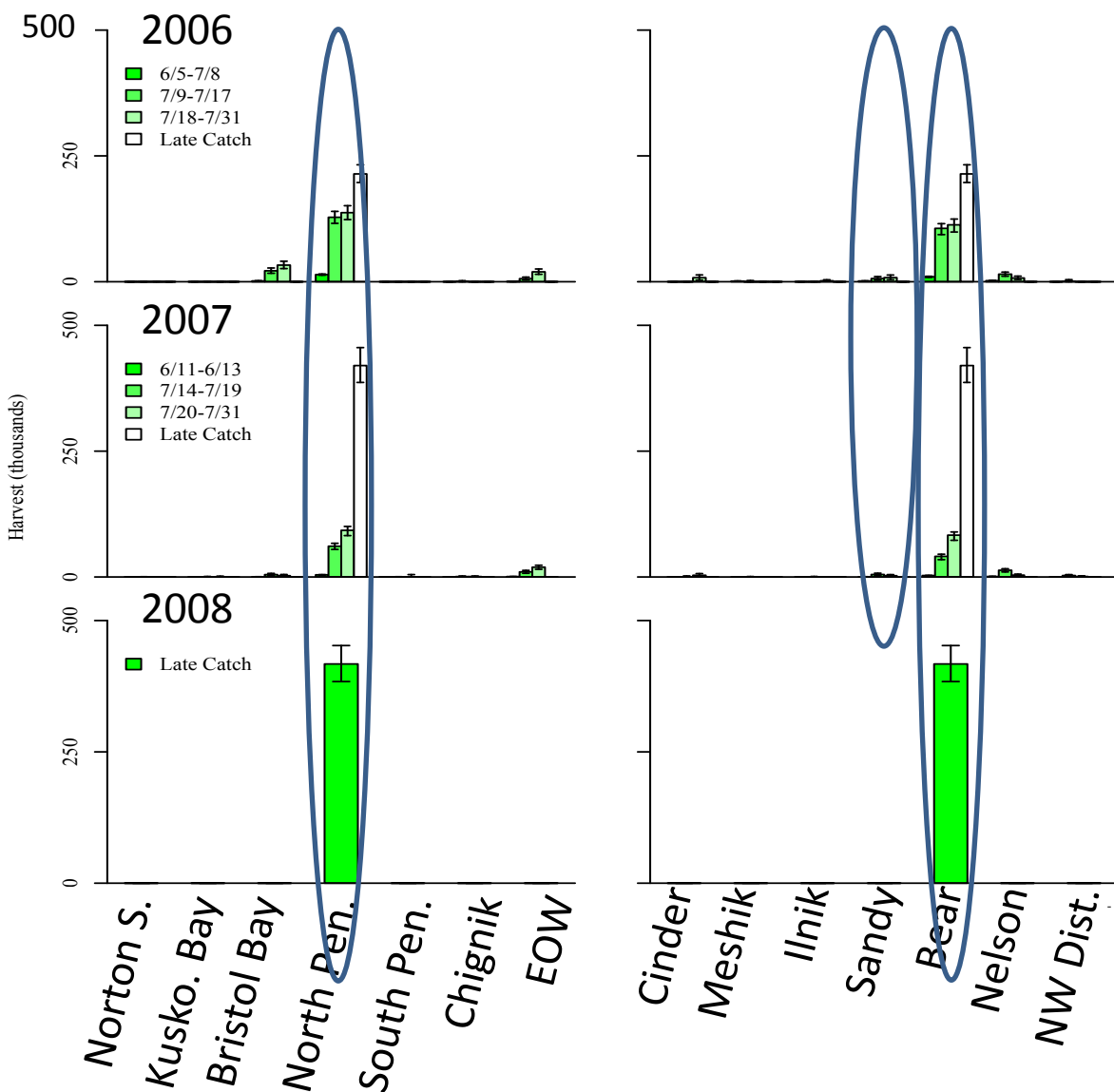
Bristol Bay: 1.9 – 2.6%
Nelson (excluding lagoon):
3.5 – 13.9%



Bear River Section: harvest numbers



Bear River Section: harvest numbers



Harvest Rate > 5%:

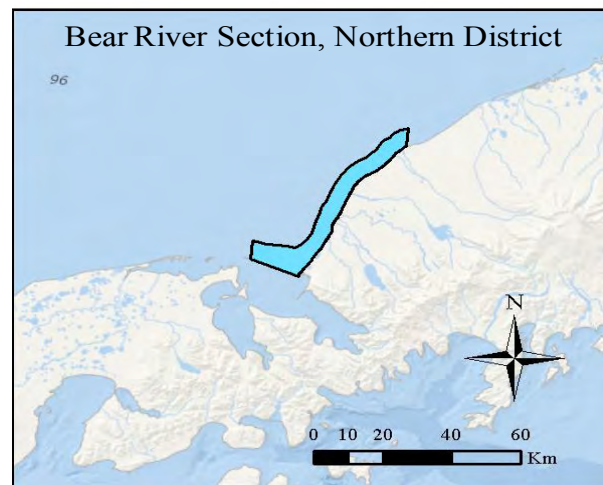
Bear (33 – 38%)

North Peninsula (14 – 16%)

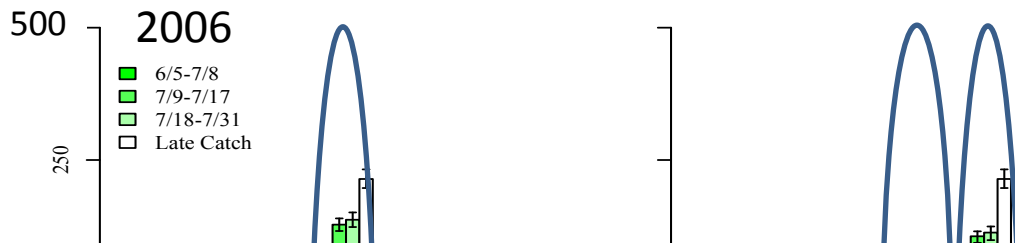
Sandy 2006, 2007 (9 – 14%)

Bristol Bay: 0.0 – 0.1%

Nelson: 0.0 – 4.1%



Bear River Section: harvest numbers

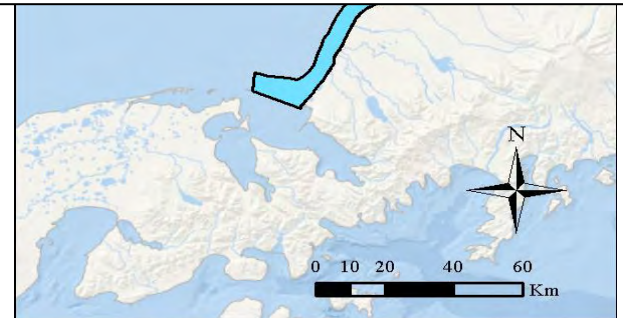
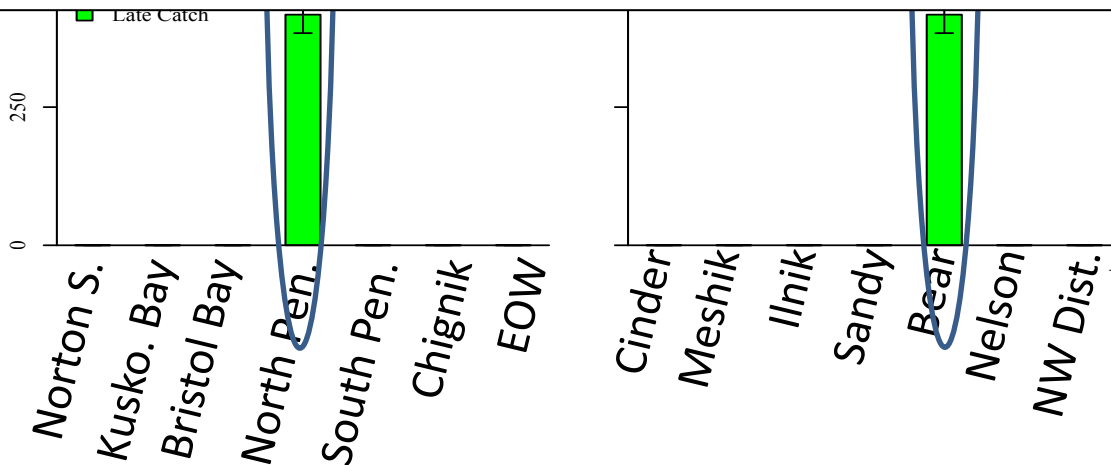


Harvest Rate > 5%:

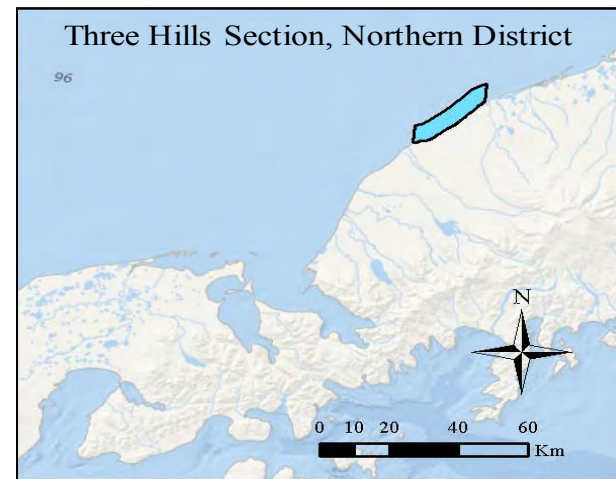
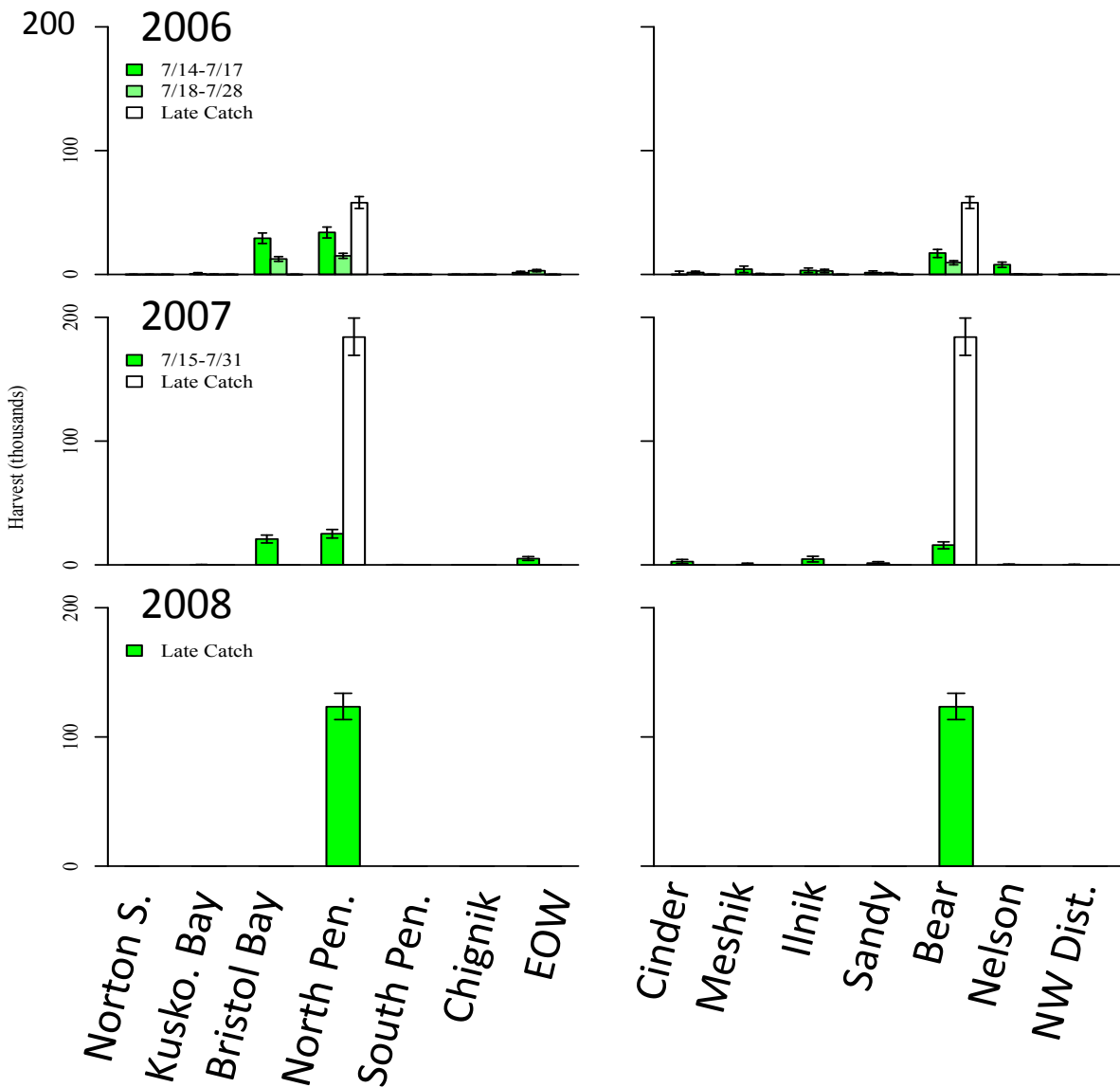
North Peninsula (14-16%)

Bear (33 – 38%)

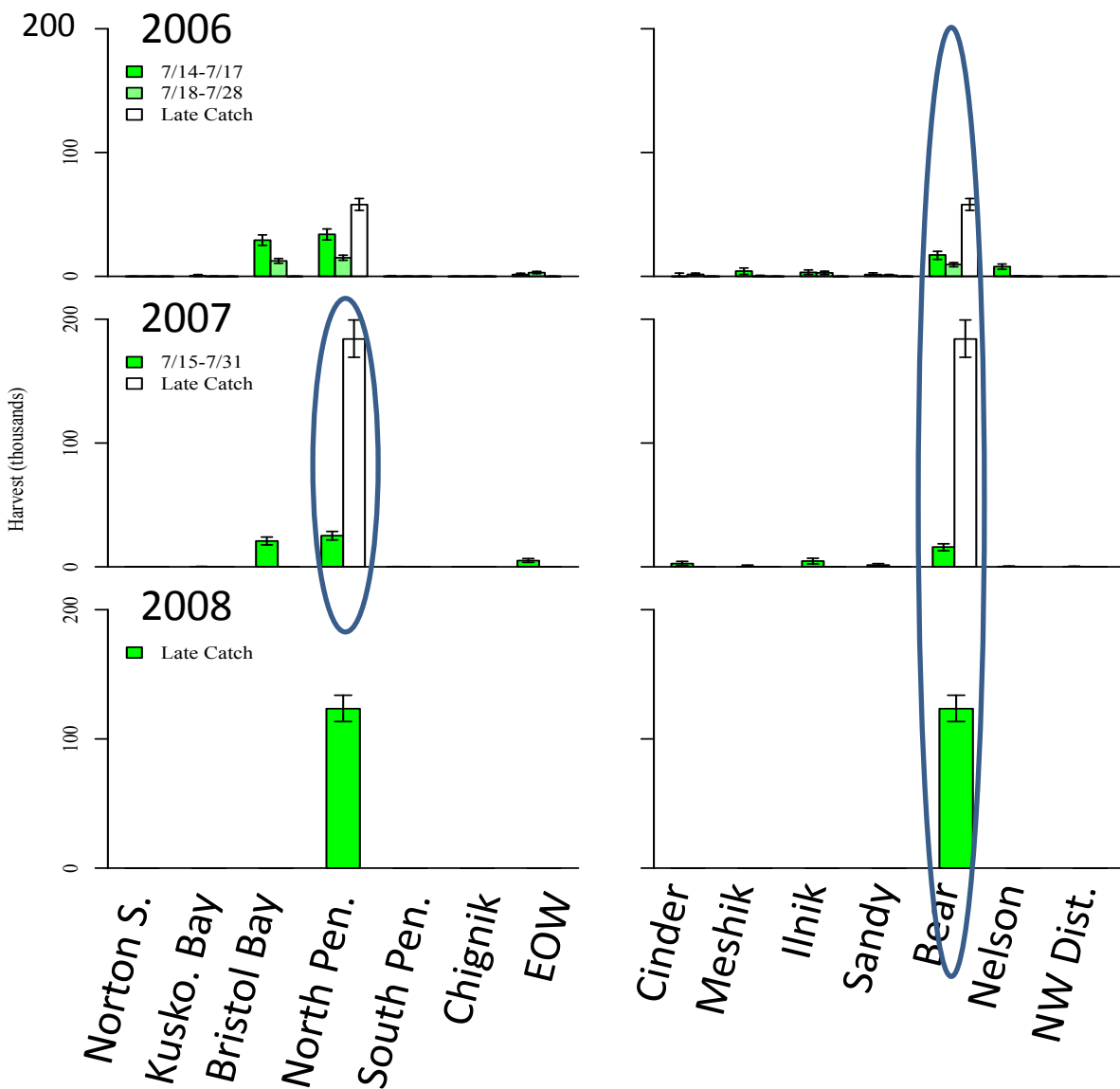
The department submitted RC 8 that separated Bear stock into early and late runs.



Three Hills Section: harvest numbers



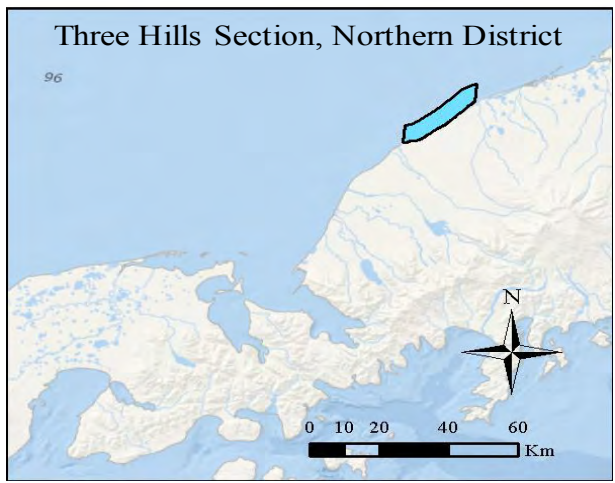
Three Hills Section: harvest numbers



Harvest Rate > 5%:

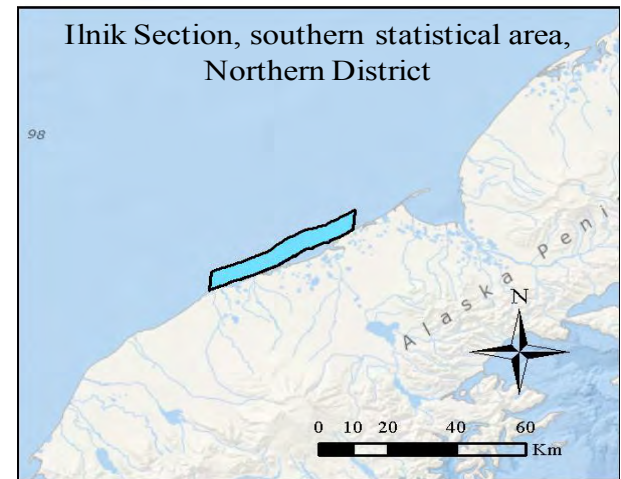
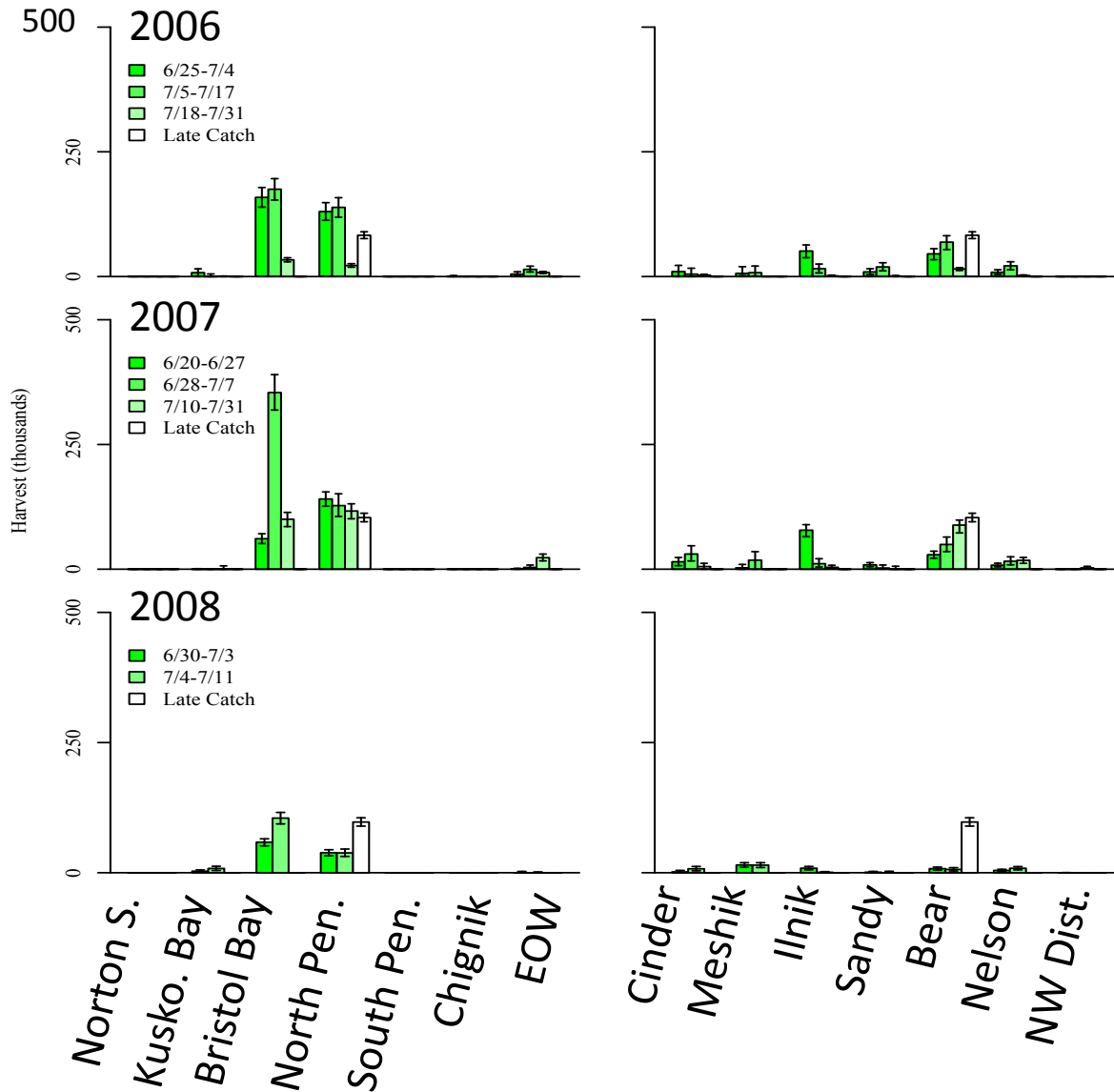
North Peninsula 2007 (6%)
Bear (7 – 12%)

Bristol Bay: 0.0 – 0.1%
Nelson: 0.0 – 1.3%
Bear: 6.7 – 12.1%



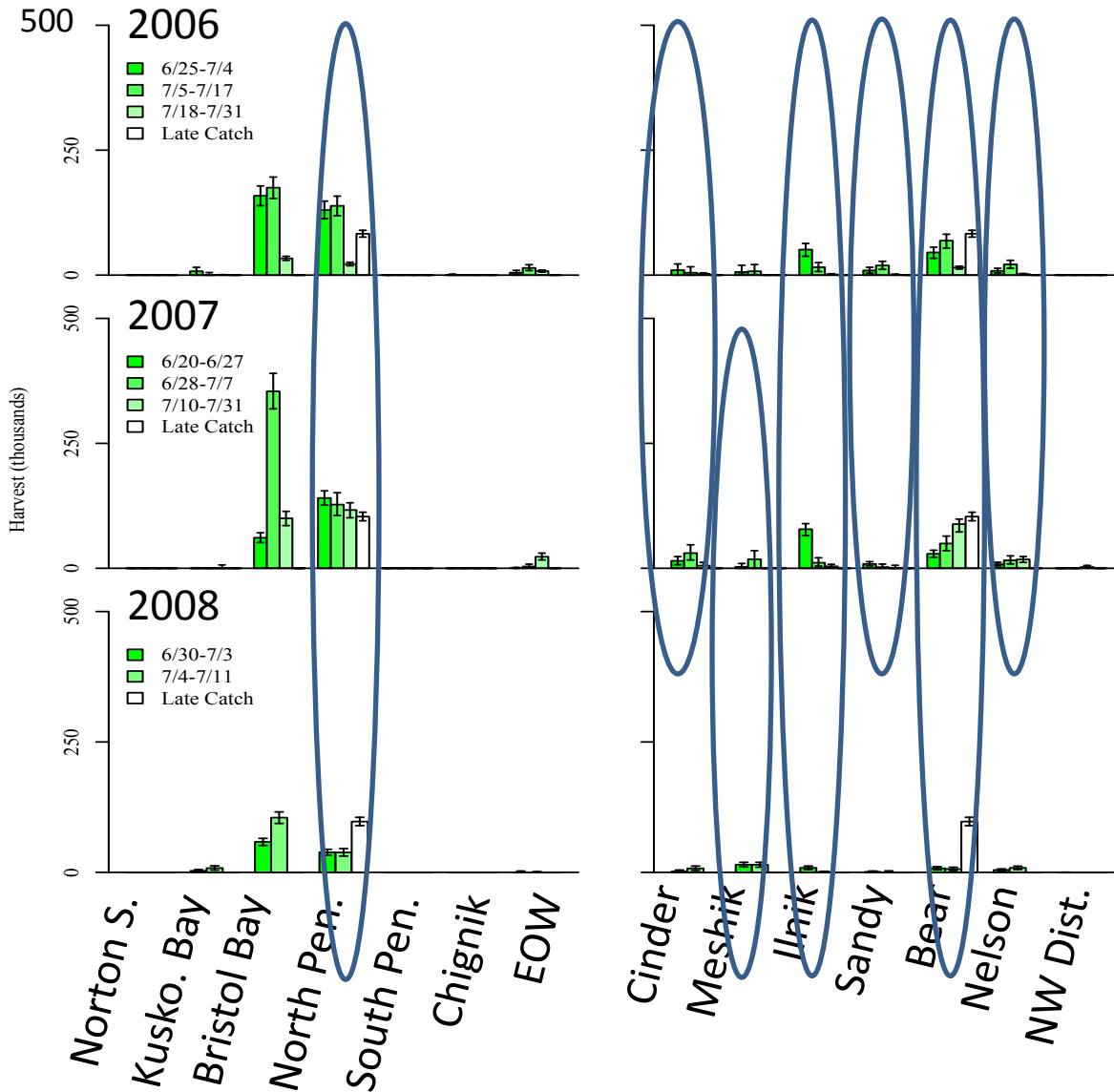


Ilnik Section, southern: harvest numbers





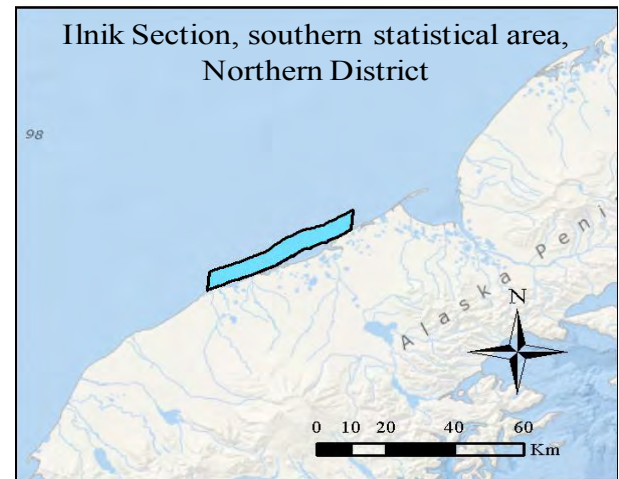
Ilnik Section, southern: harvest numbers



Harvest Rate > 5%:

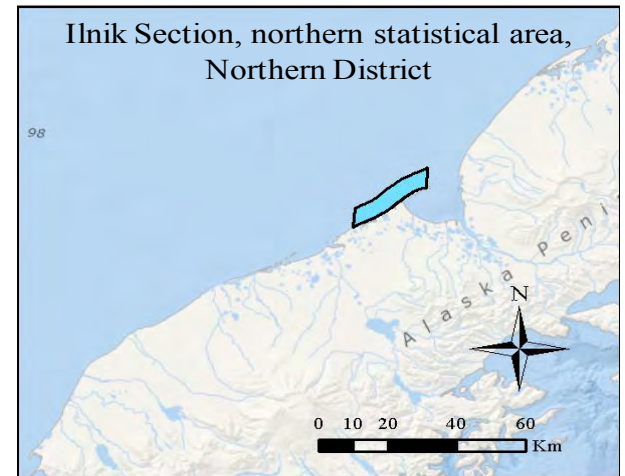
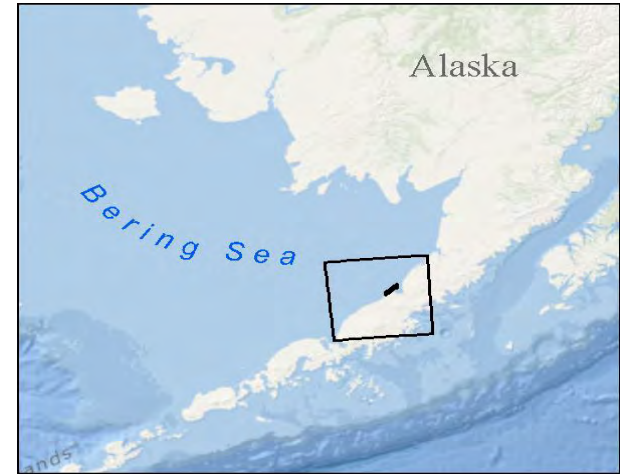
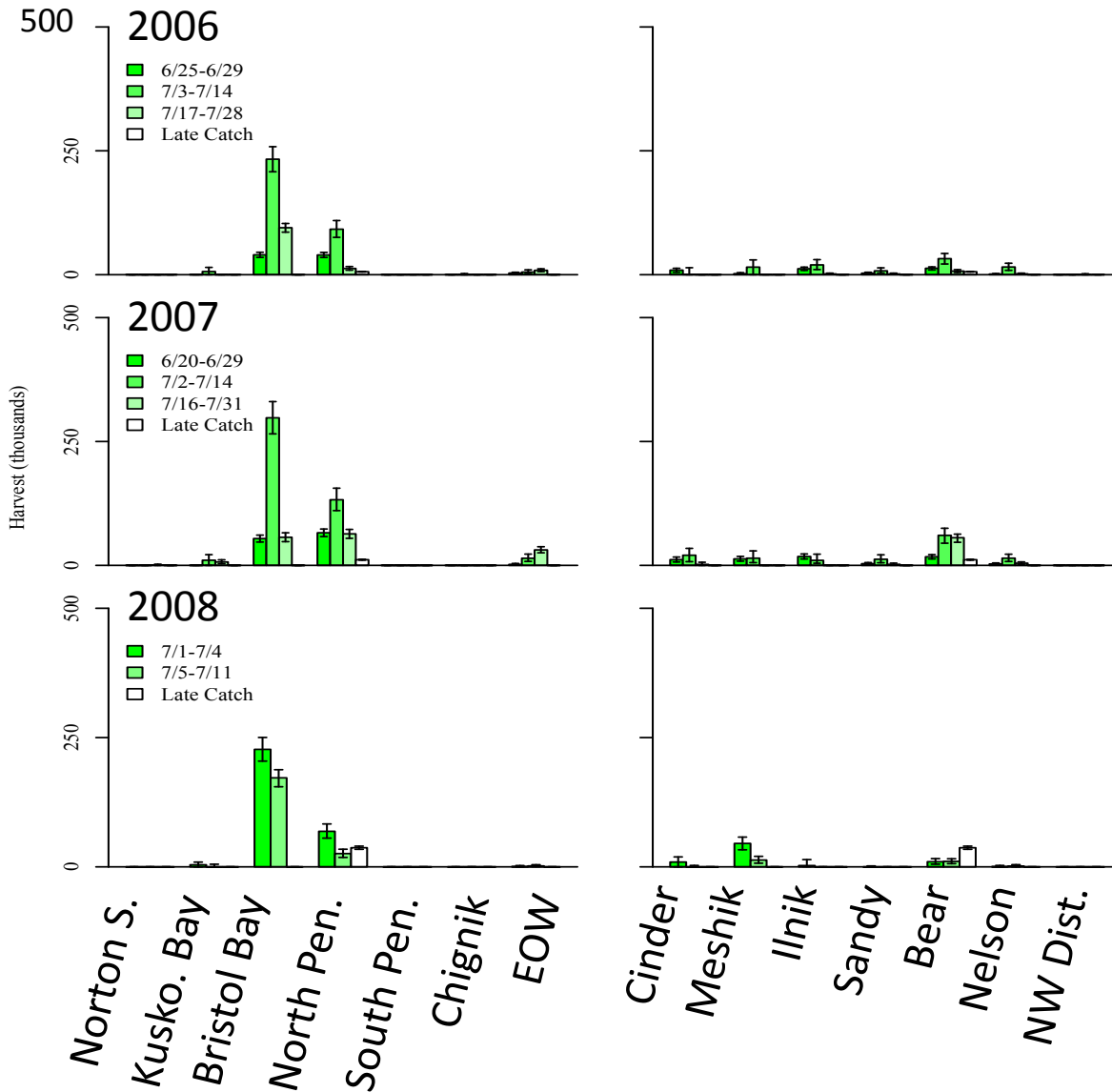
North Peninsula (6 - 13%)
Subregional (0 - 36%)

Bristol Bay: 0.0 – 0.1%
Nelson: 2.9 – 6.5%
Bear: 10.2 – 16.6%



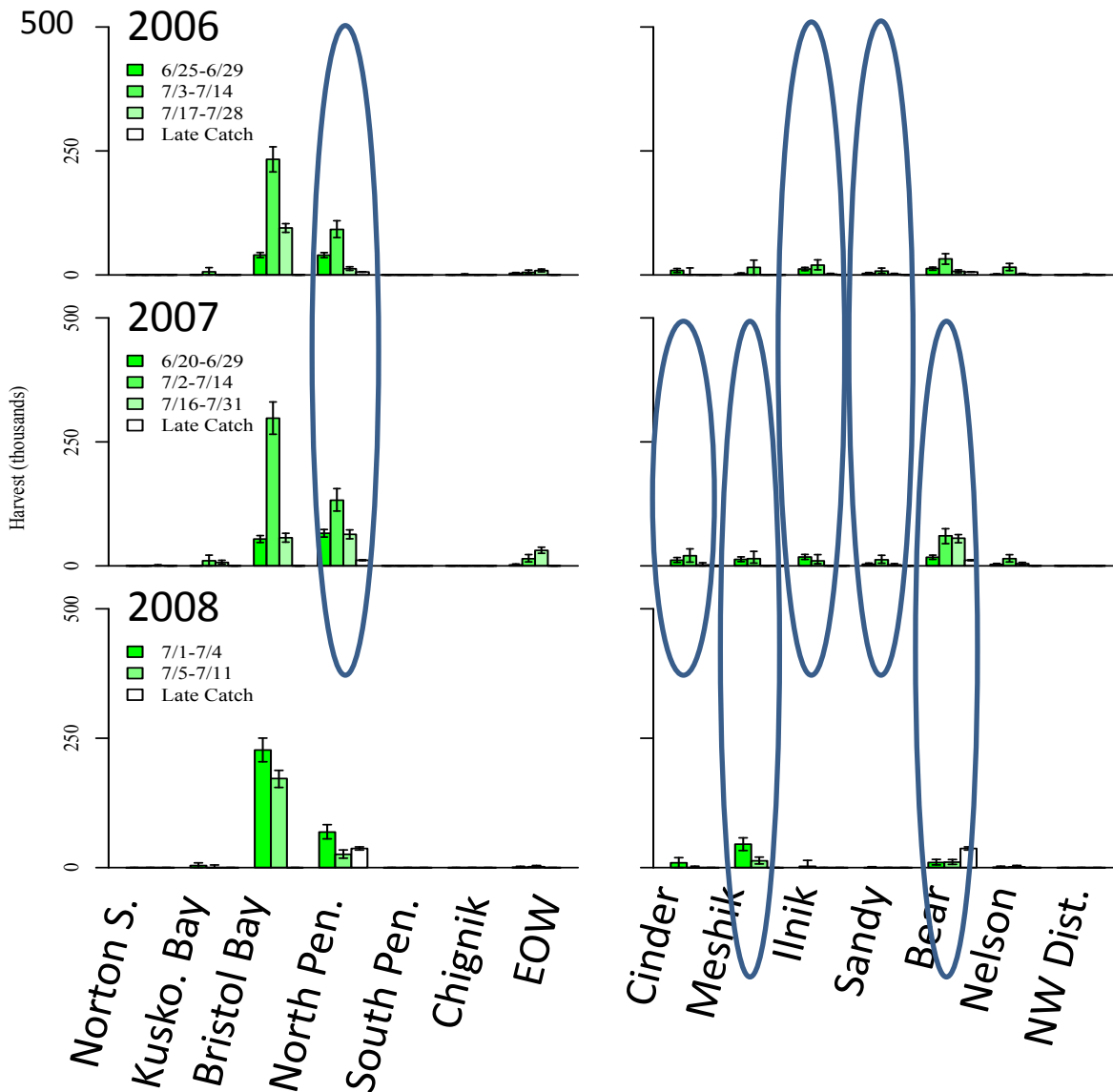


Ilnik Section, northern: harvest numbers





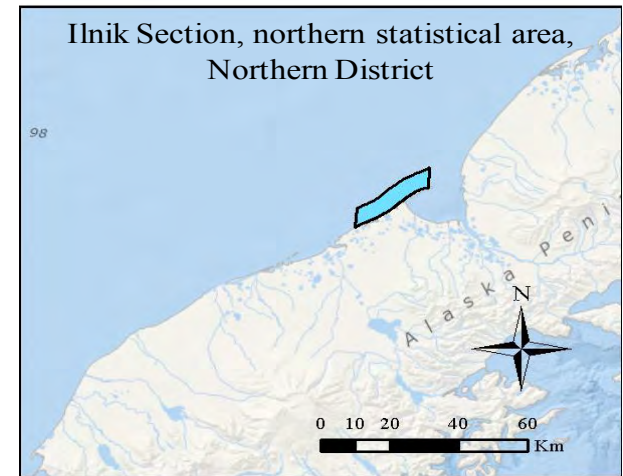
Ilnik Section, northern: harvest numbers



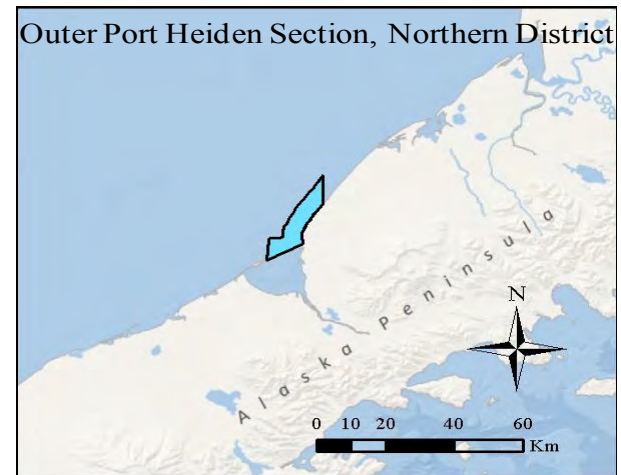
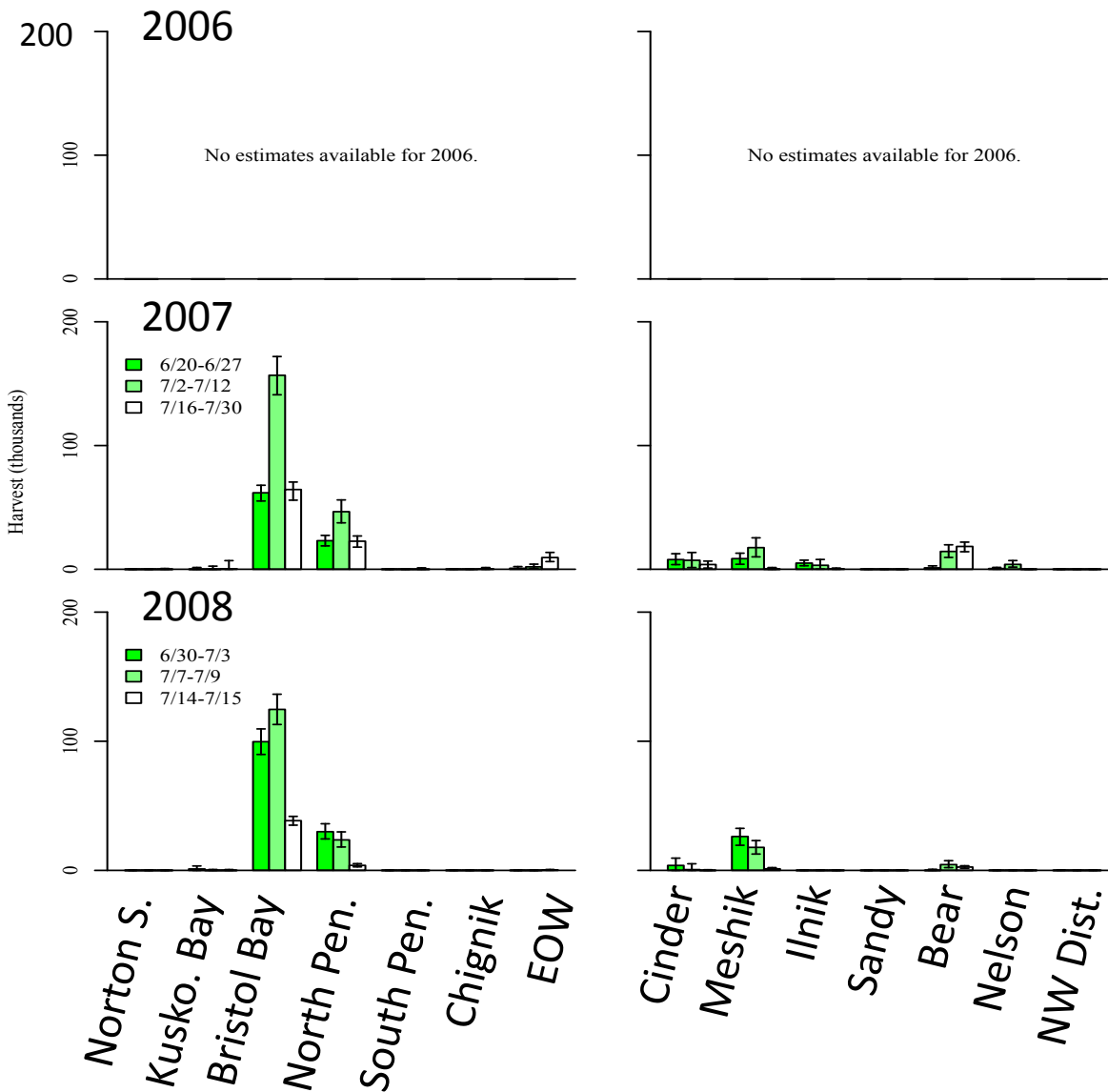
Harvest Rate > 5%:

North Pen. 2006, 2007 (5 – 7%)
Subregional (0 – 20%)

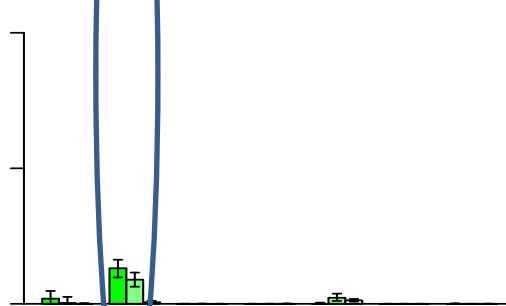
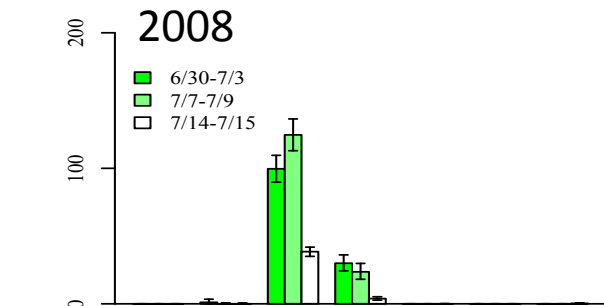
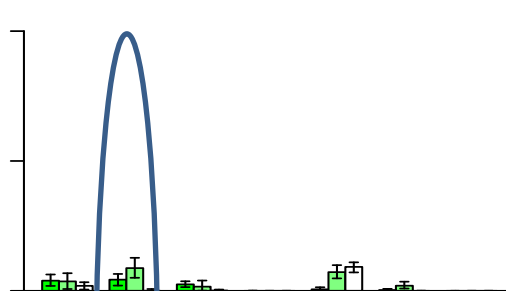
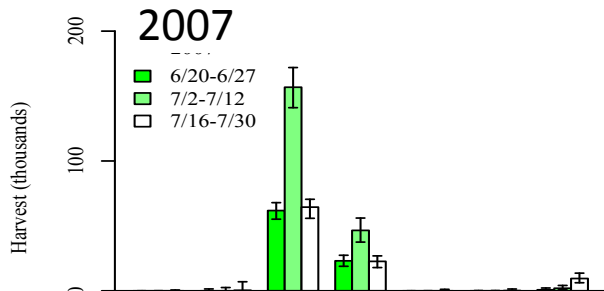
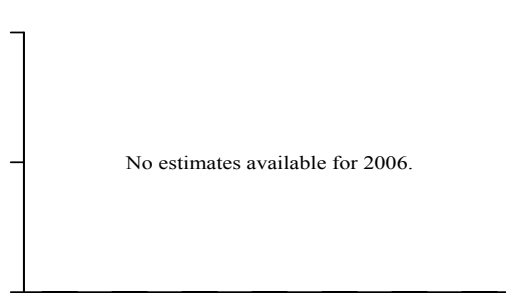
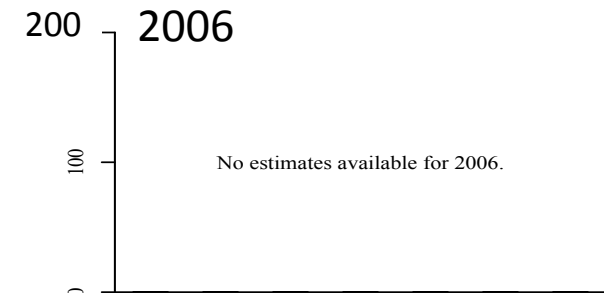
Bristol Bay: 0.8 – 0.9%
Nelson: 0.5 – 3.4%
Bear: 4.5 – 8.6%



Outer Port Heiden: harvest numbers



Outer Port Heiden: harvest numbers



Harvest Rate > 5%:

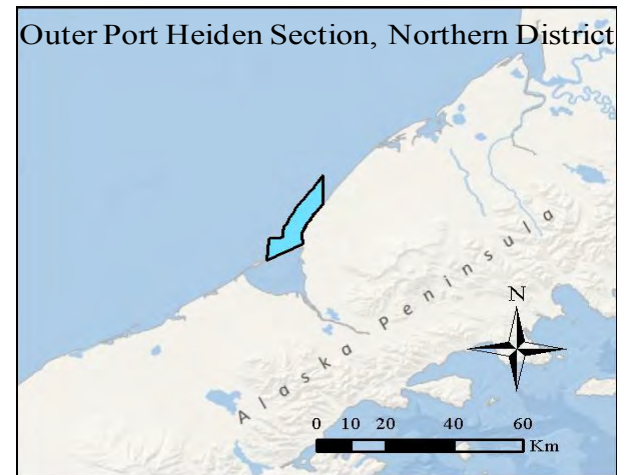
No stock

Meshik (12 – 13%)

Bristol Bay: 0.6 – 0.6%

Nelson: 0.0 – 0.7%

Bear: 0.0 – 2.0%



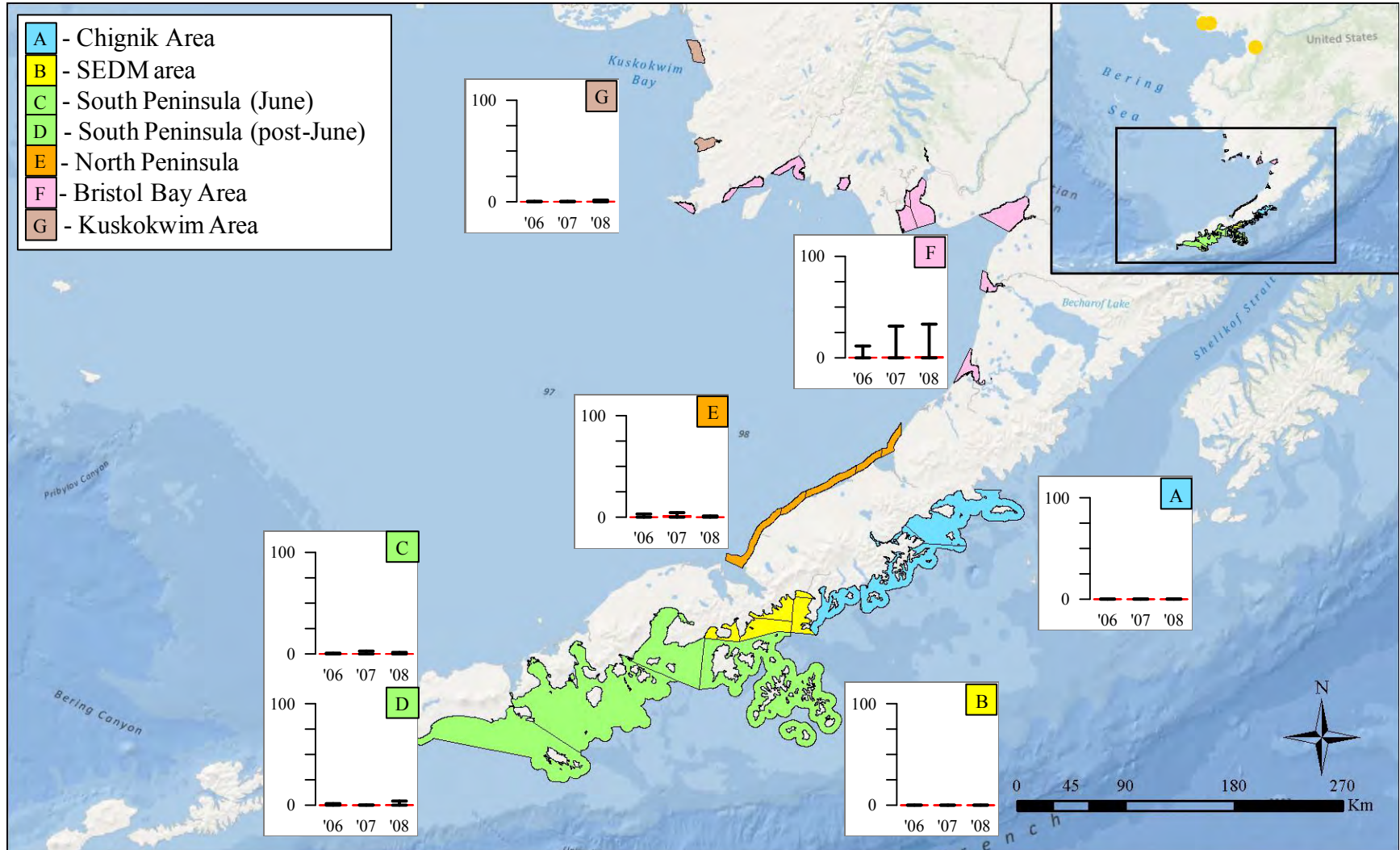
Norton S.
Kusko. Bay
Bristol Bay
North Pen.
South Pen.
Chignik
EOW

Cinder
Meshik
Ilnik
Sandy
Bear
Nelson
NW Dist.

In what fisheries are a given stock caught?



Norton Sound stock: harvest rate



Where to find harvest rates for a specific stock across all fisheries (sockeye salmon)



Special Publication No. 12-24

Harvest and Harvest Rates of Sockeye Salmon Stocks in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2006-2008

by

Christopher Habicht,
Andrew R. Munro,
Tyler H. Dann,
Douglas M. Eggers,
William D. Templin,
Mark J. Witteveen,
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Serena D. Rogers Olive,
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and
Eric C. Volk

November 2012

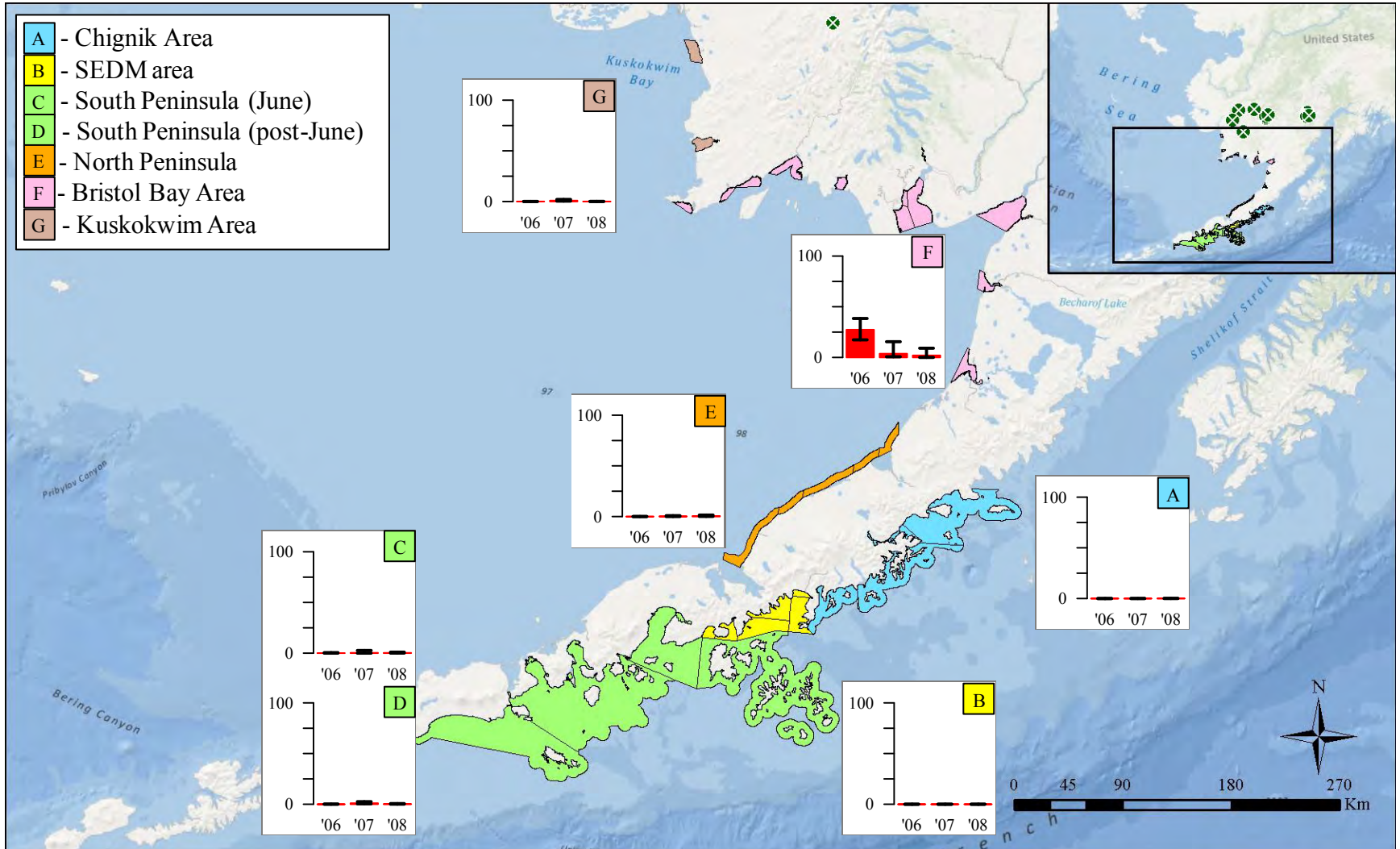
Alaska Department of Fish and Game

Division of Sport Fish and Commercial Fisheries

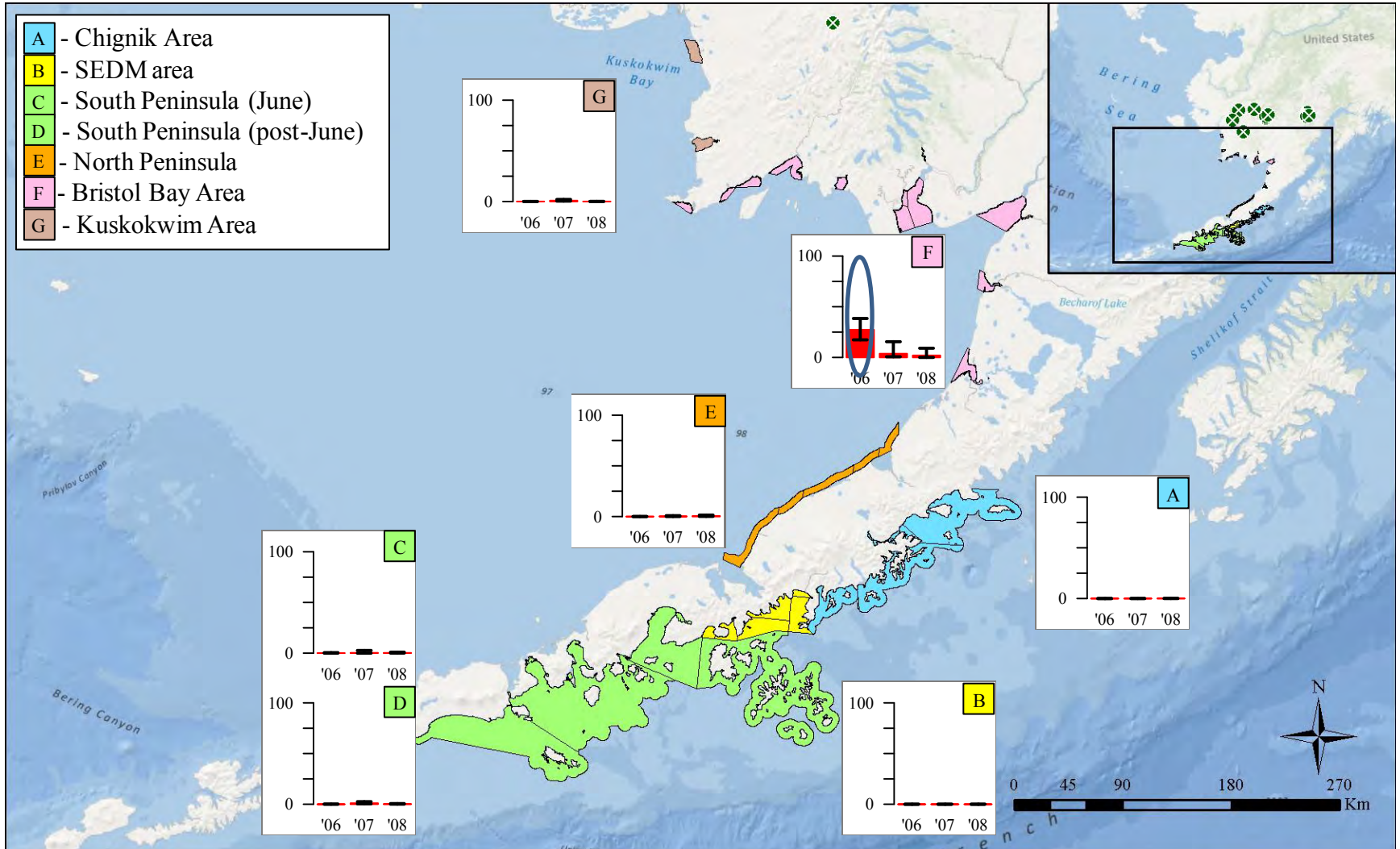


- SP 12-24
- Figures: 53 – 75
- Tables: 105 – 176
 - Tabulated data shown in figures
- Appendices: F1 – F72
 - At fine-scale fishery level
- Order: Starts in Norton Sound, ends in Chignik

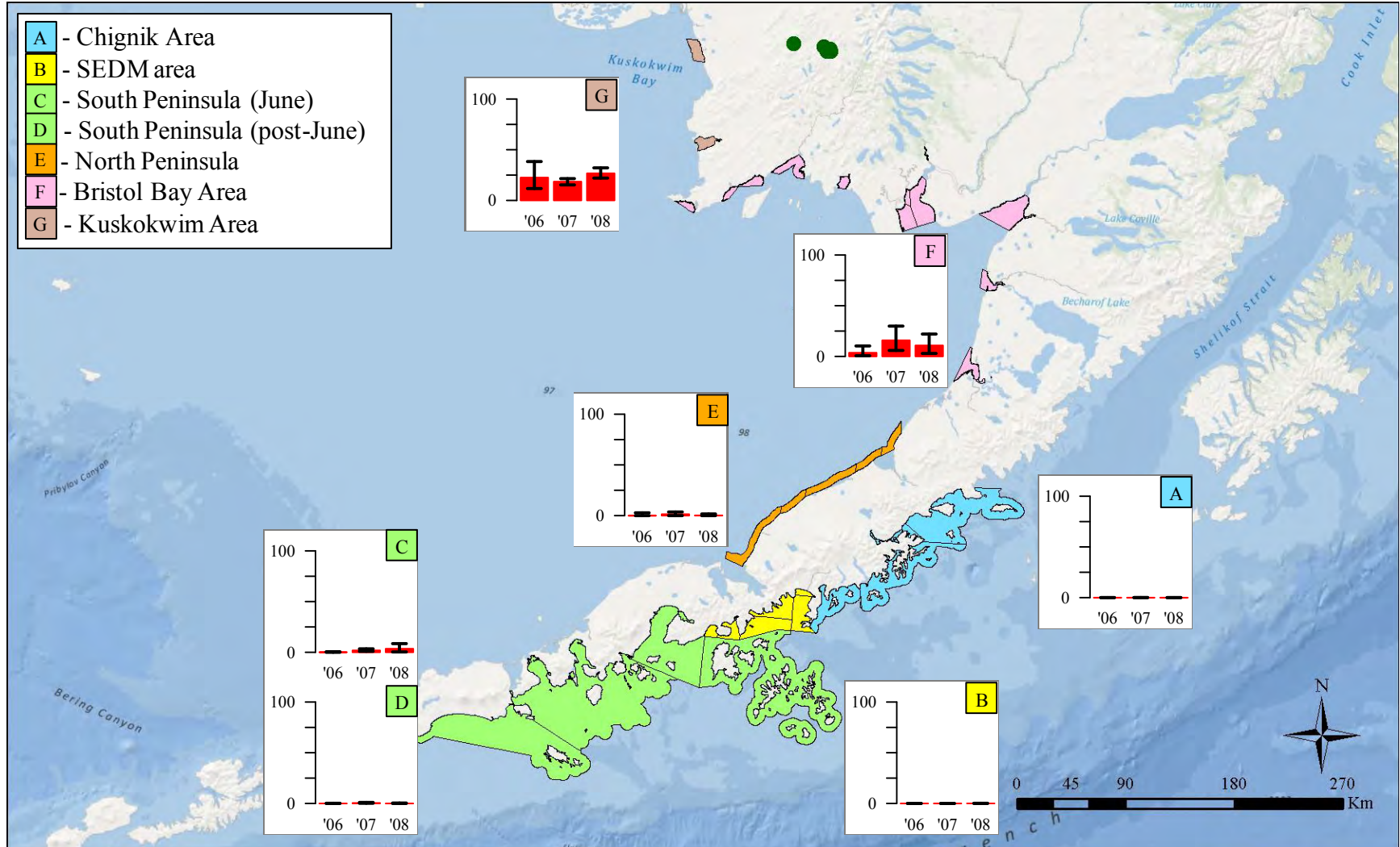
Kuskokwim River stock: harvest rate



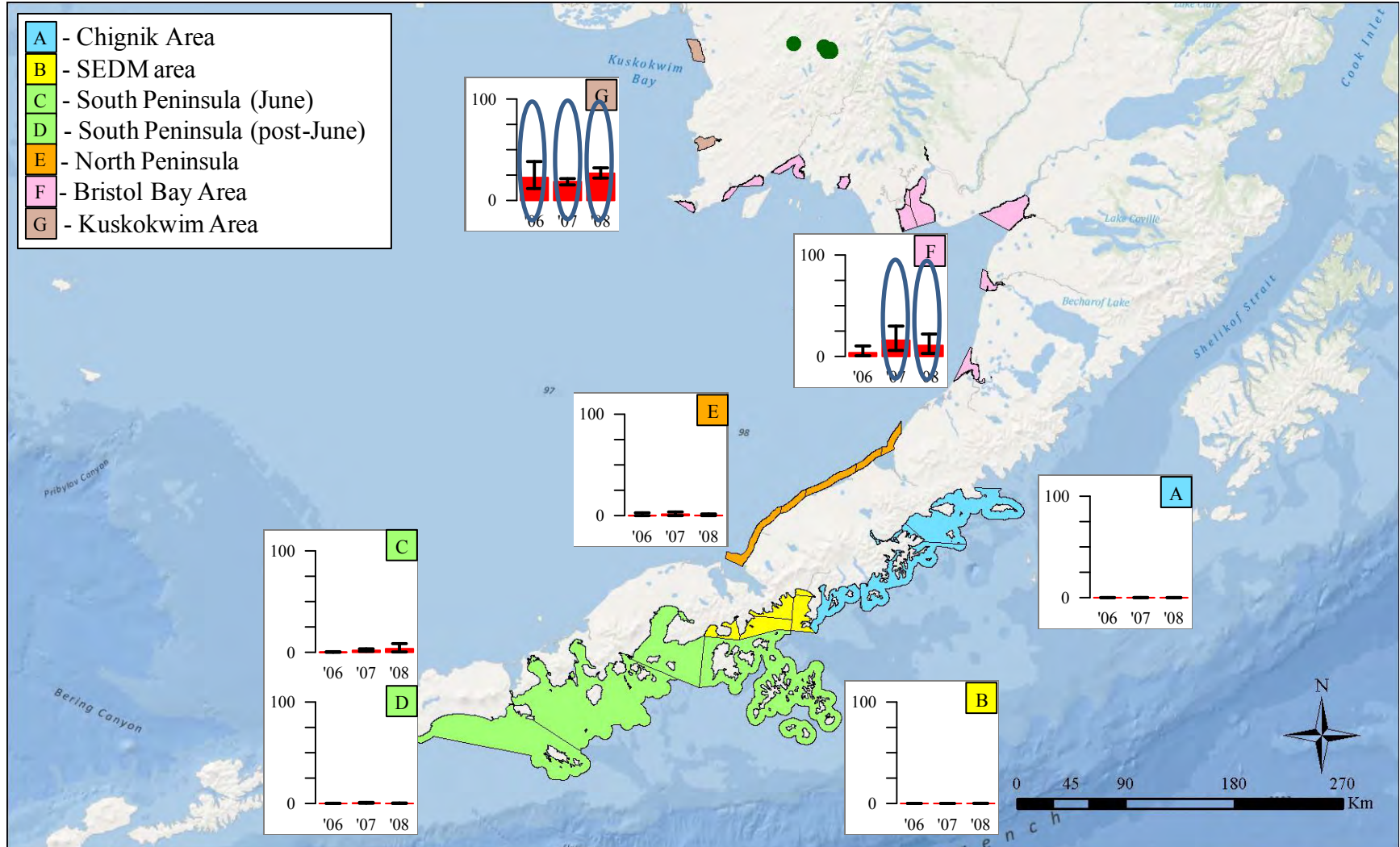
Kuskokwim River stock: harvest rate



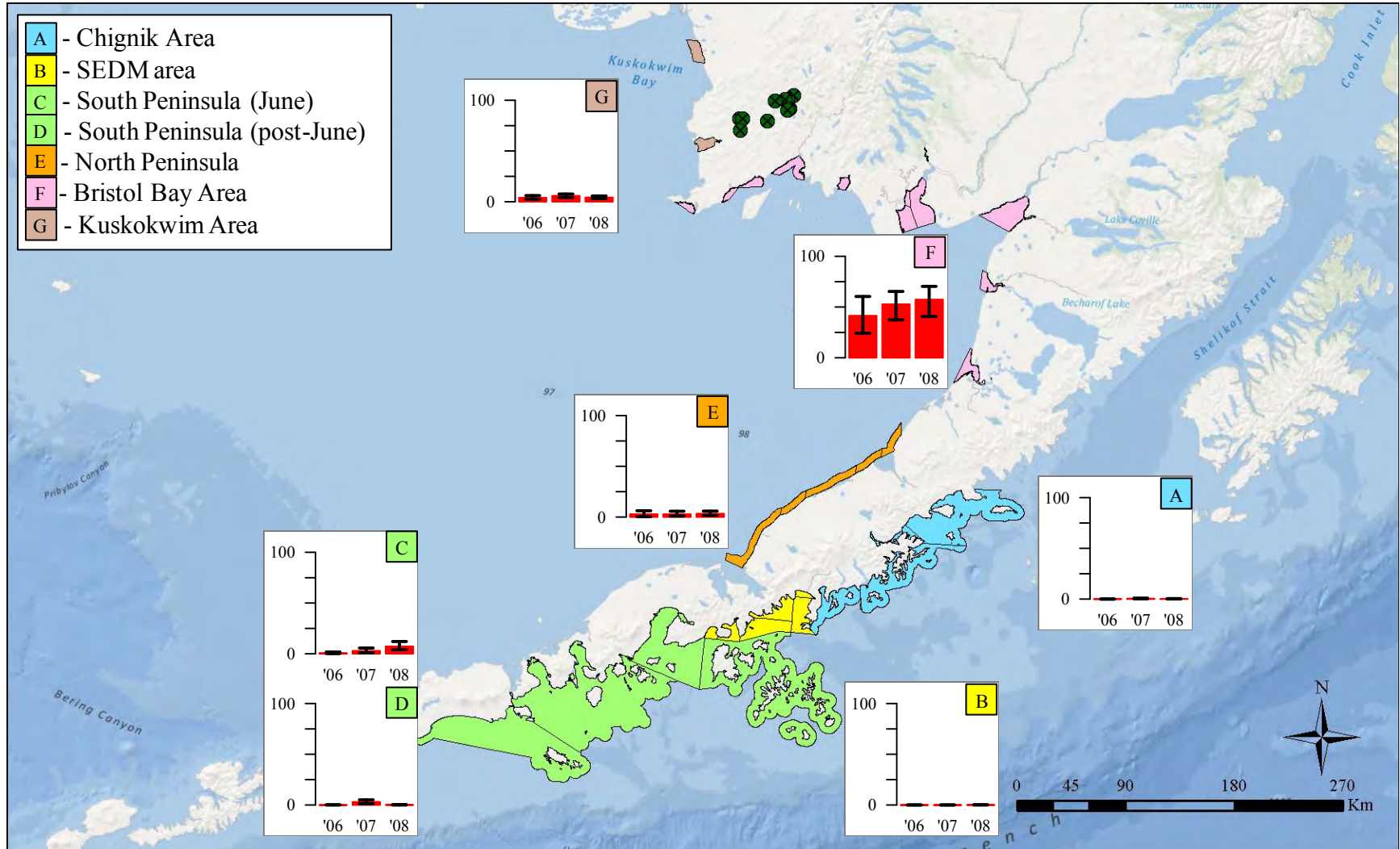
Kanektok River stock: harvest rate



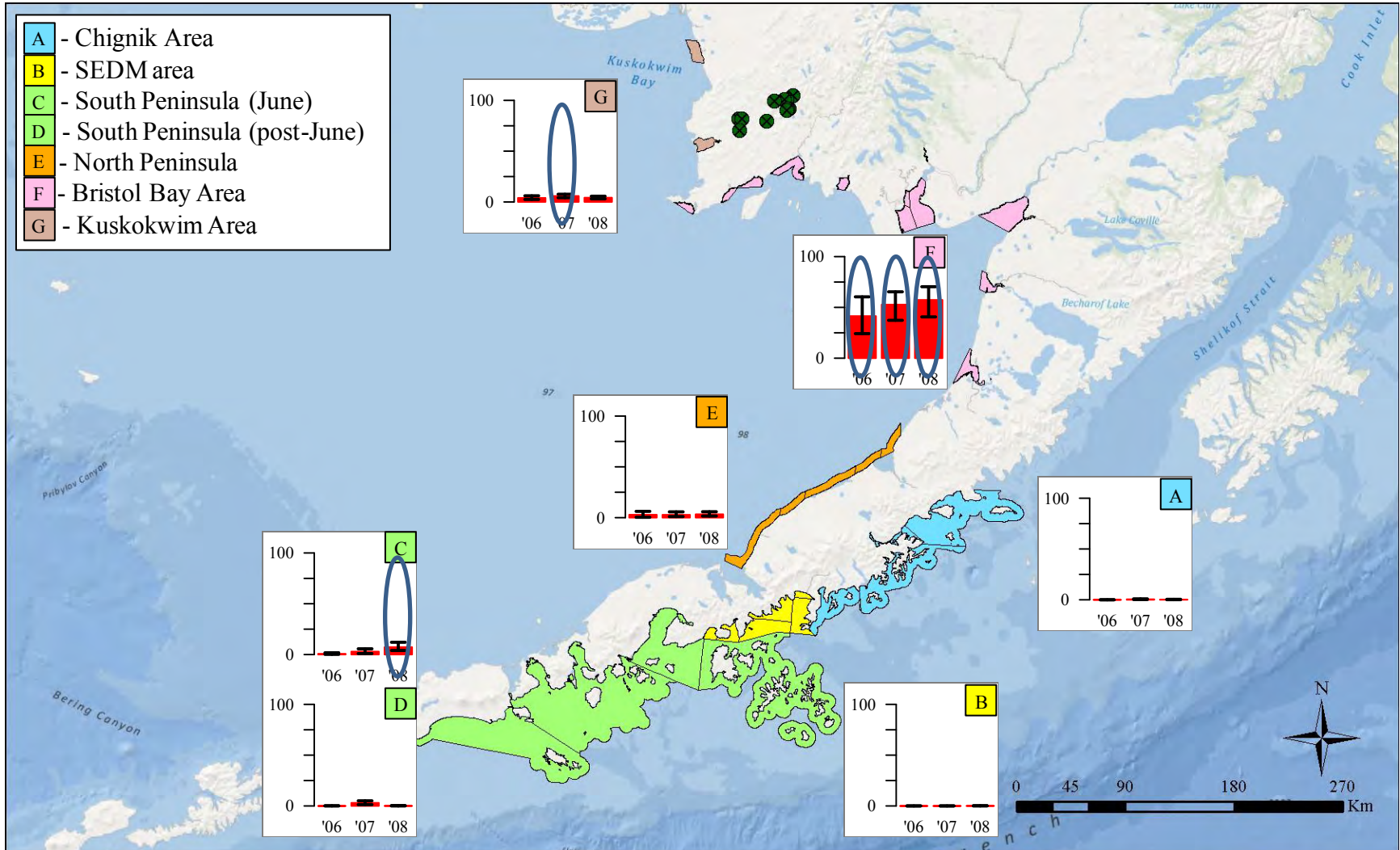
Kanektok River stock: harvest rate



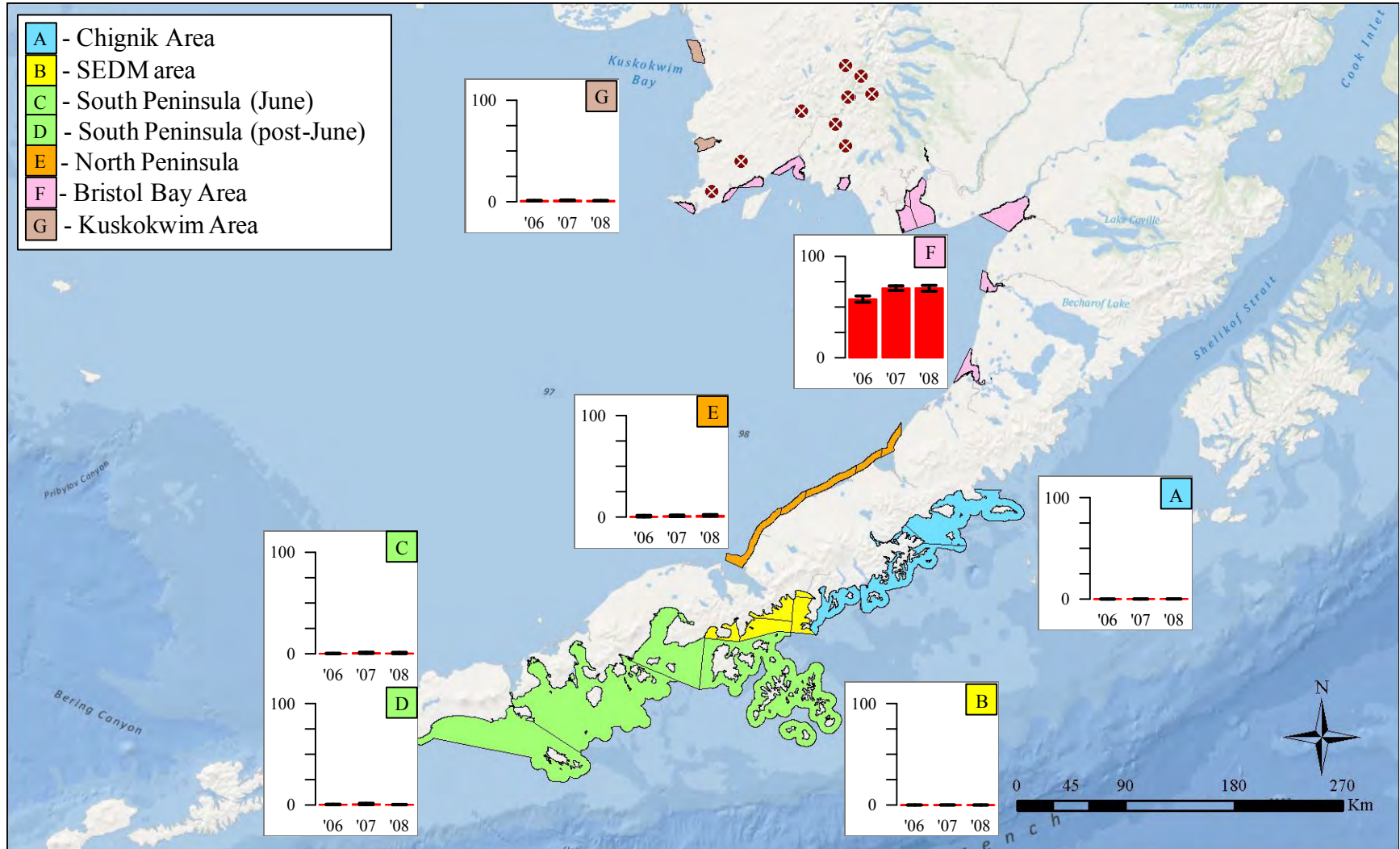
Goodnews River stock: harvest rate



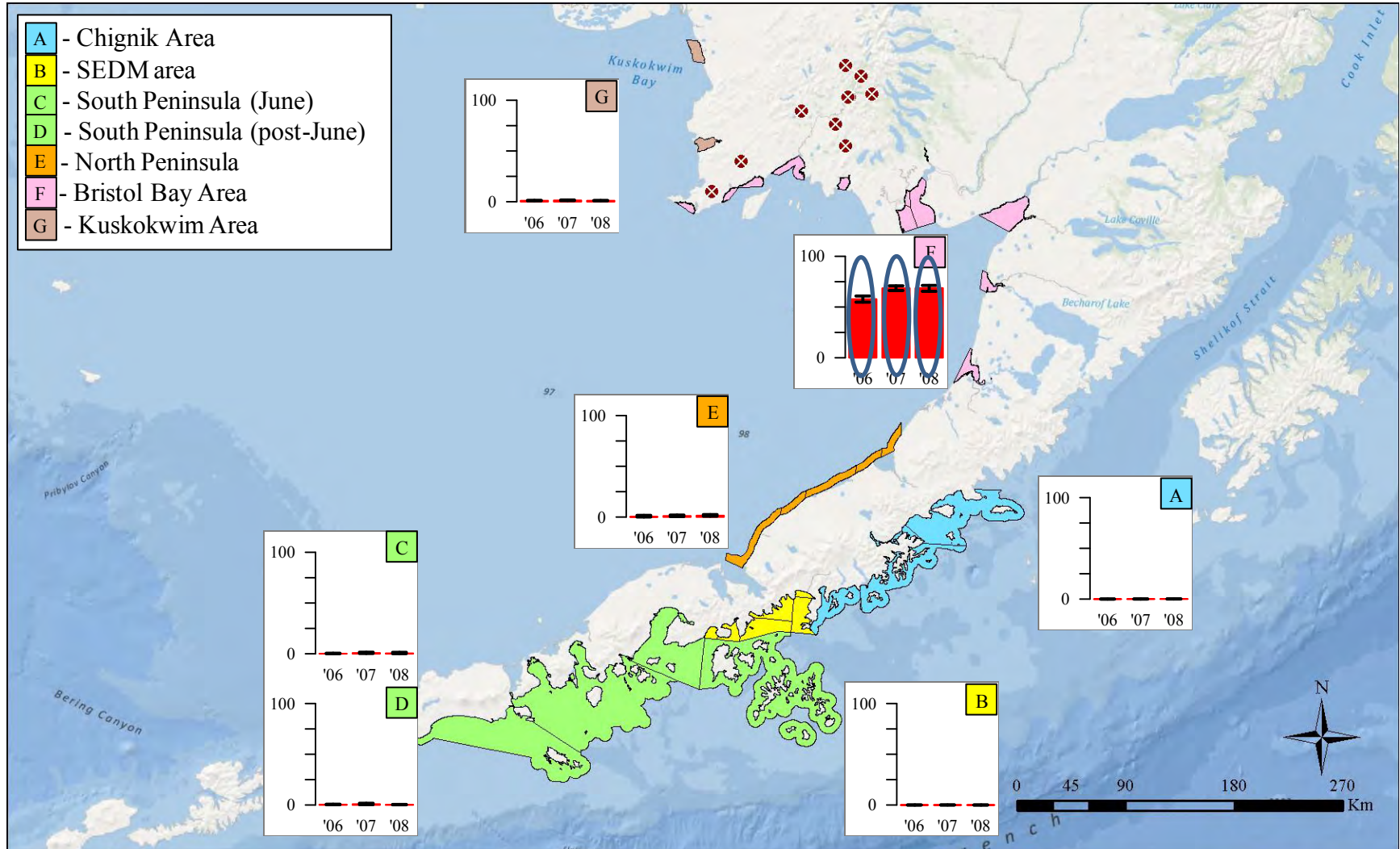
Goodnews River stock: harvest rate



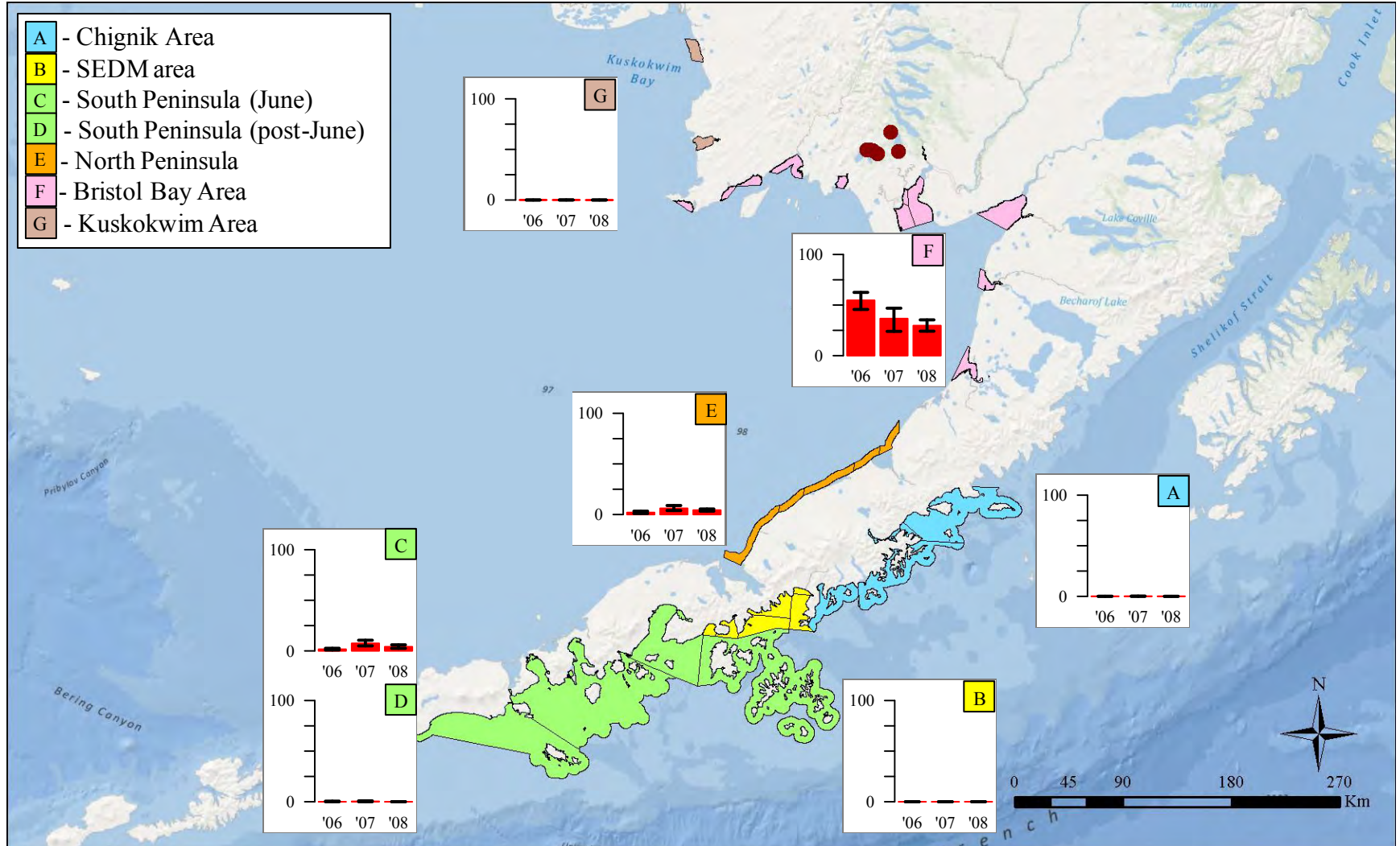
Togiak River stock: harvest rate



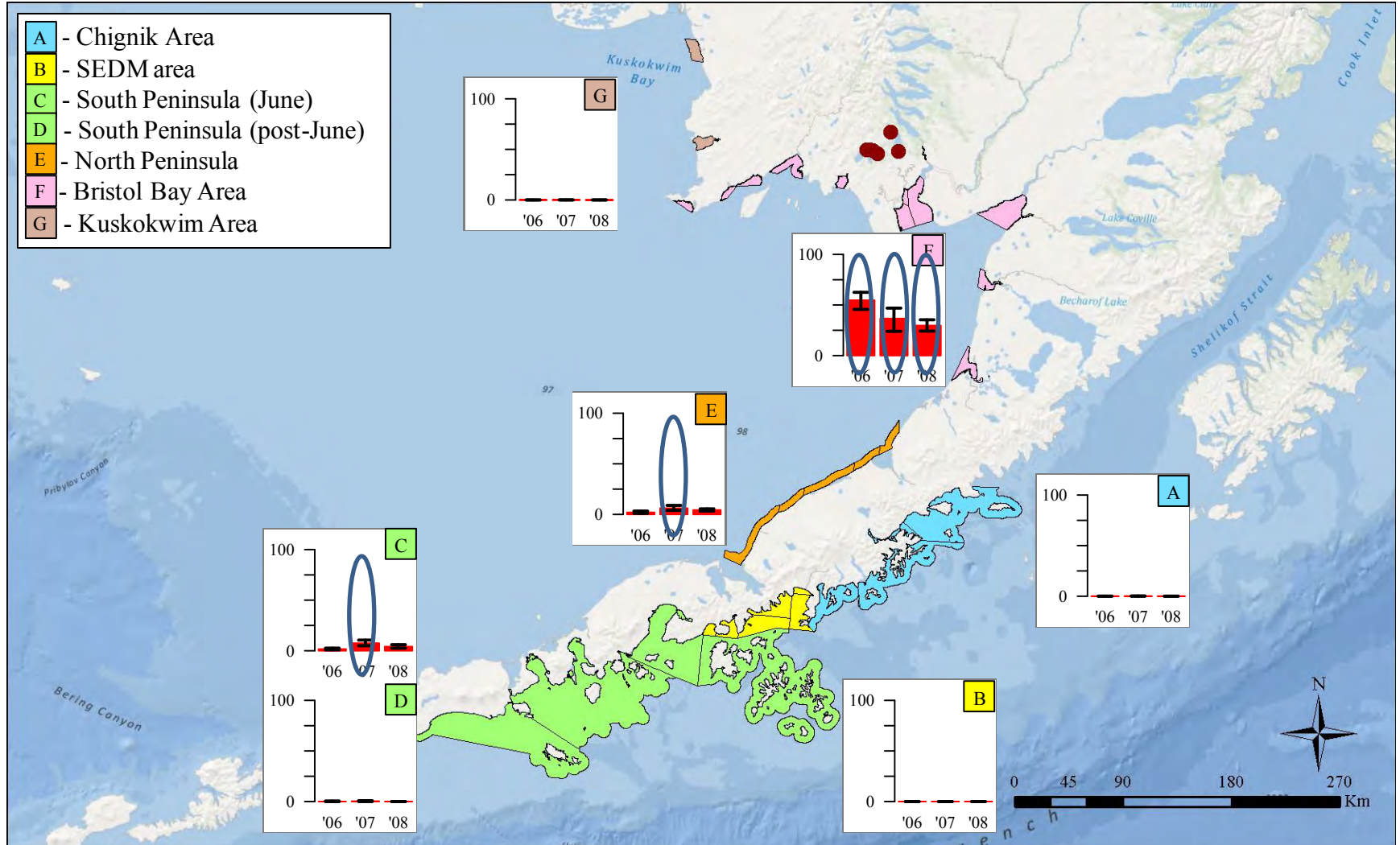
Togiak River stock: harvest rate



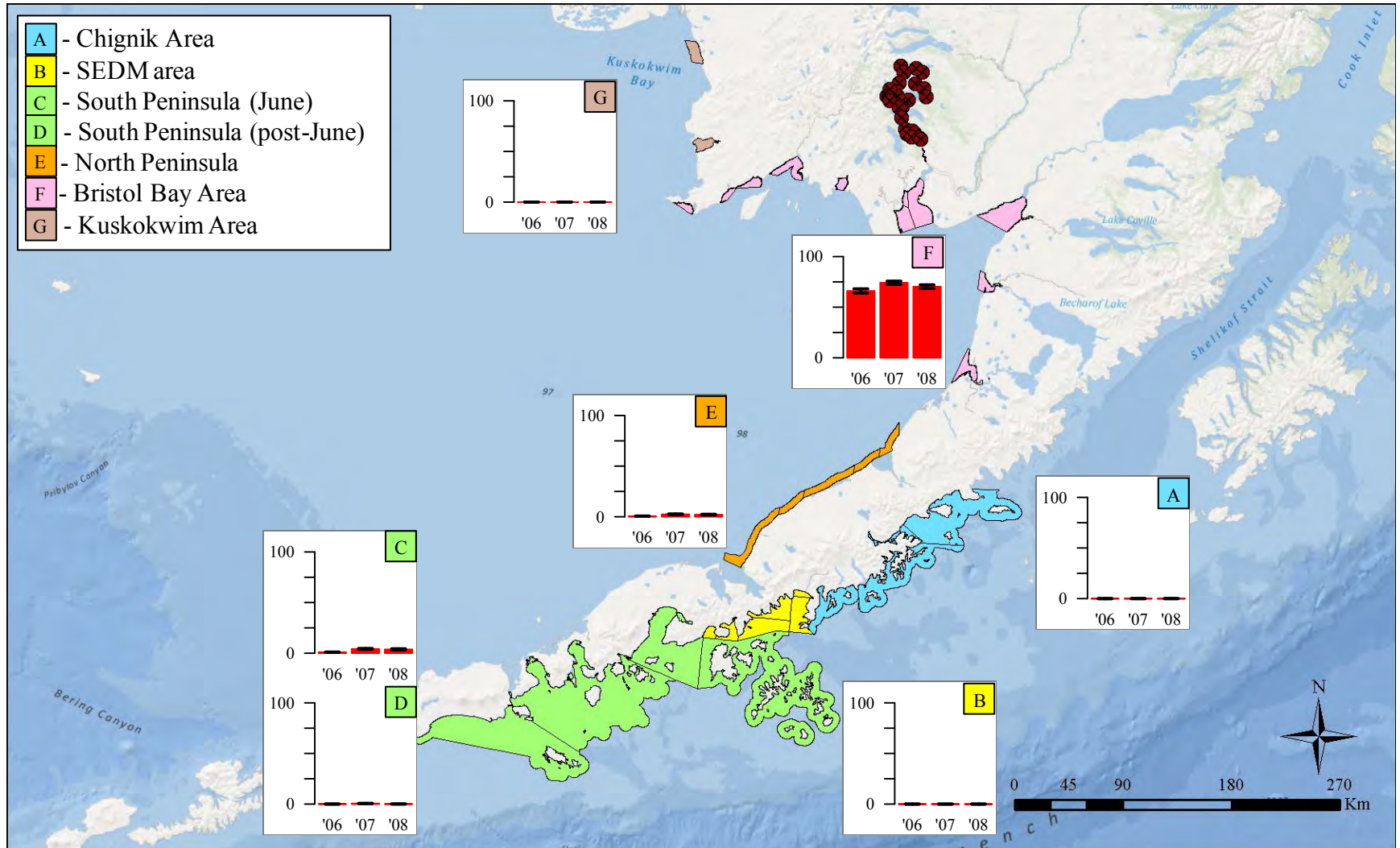
Igushik River stock: harvest rate



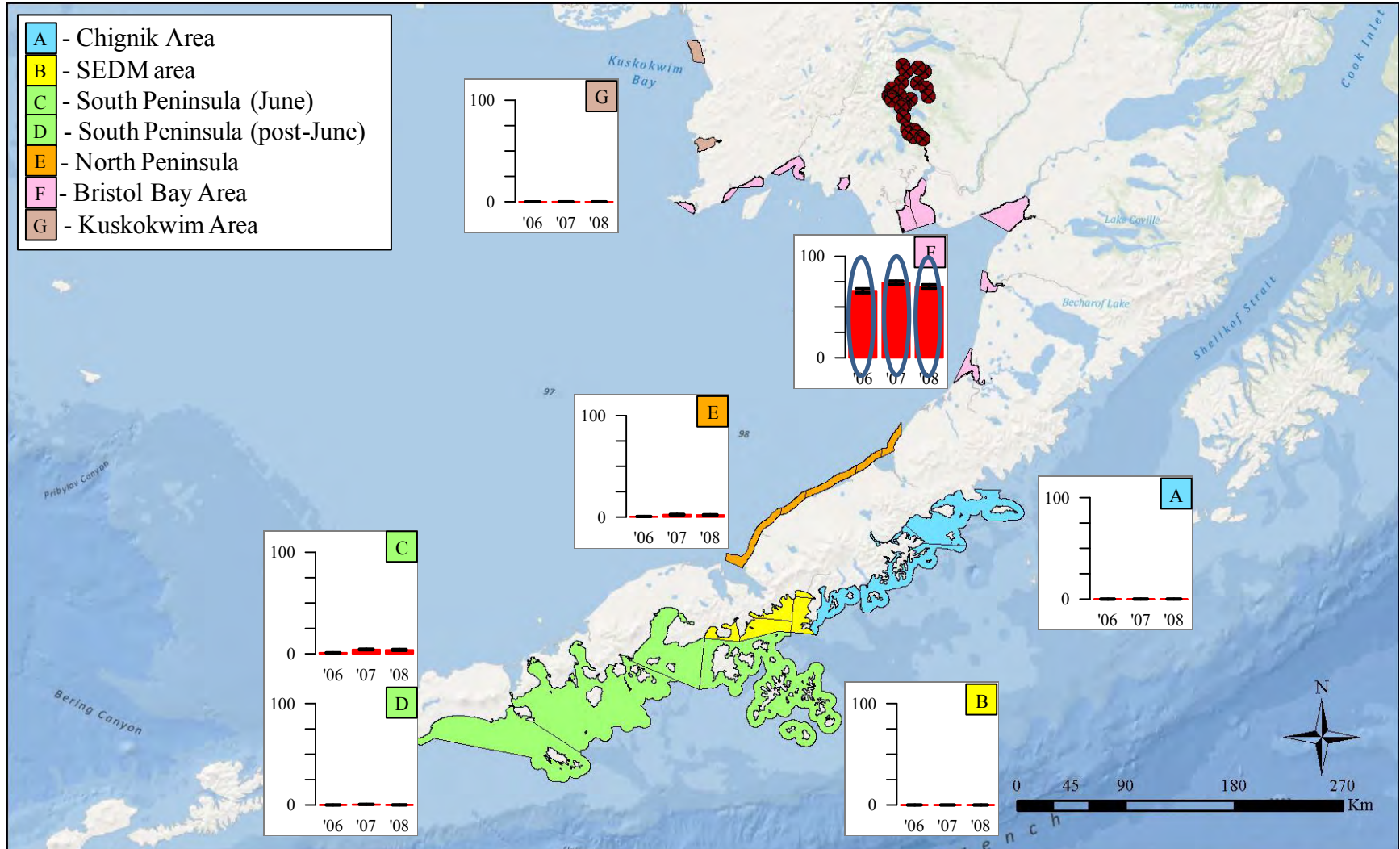
Igushik River stock: harvest rate



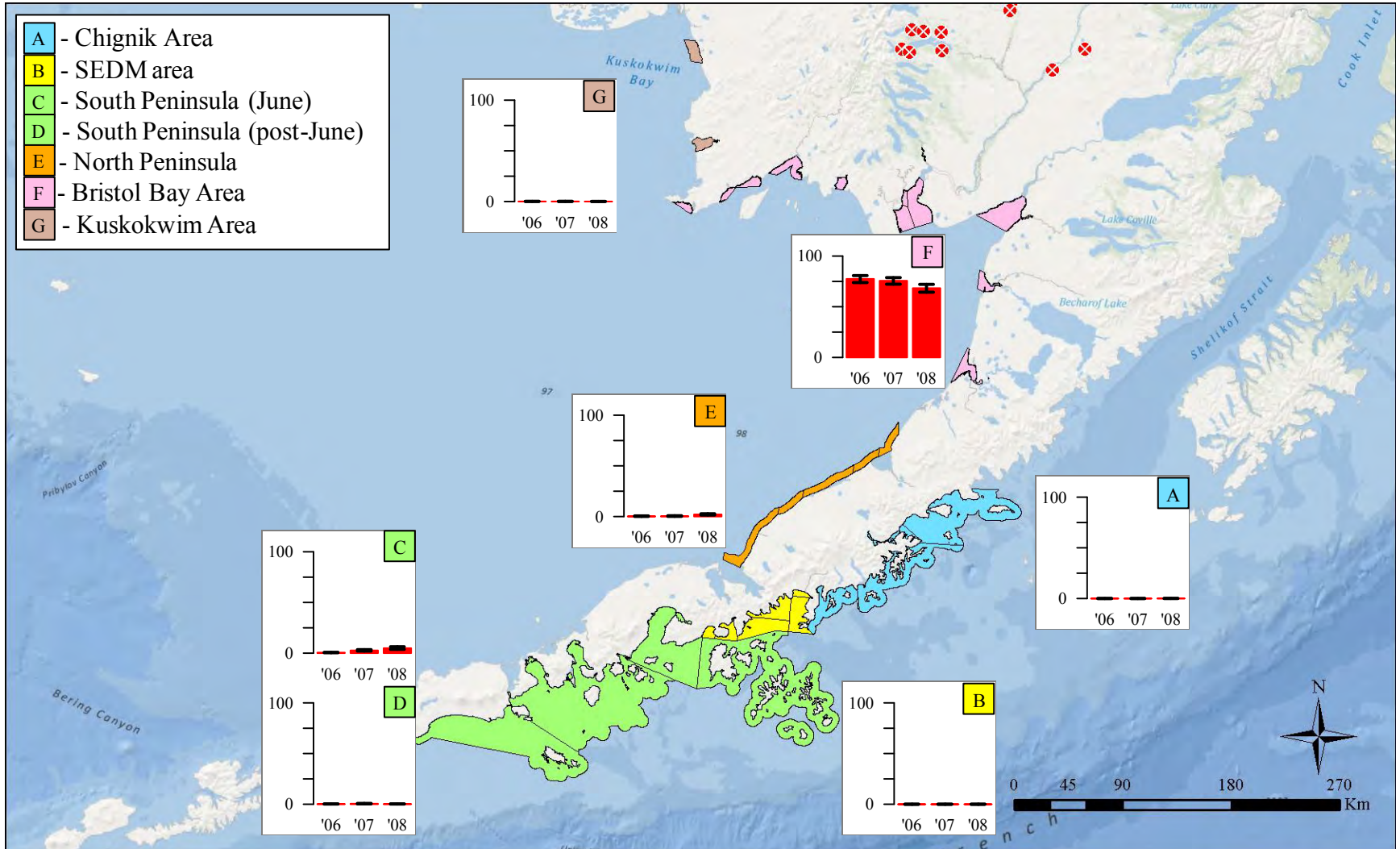
Wood River stock: harvest rate



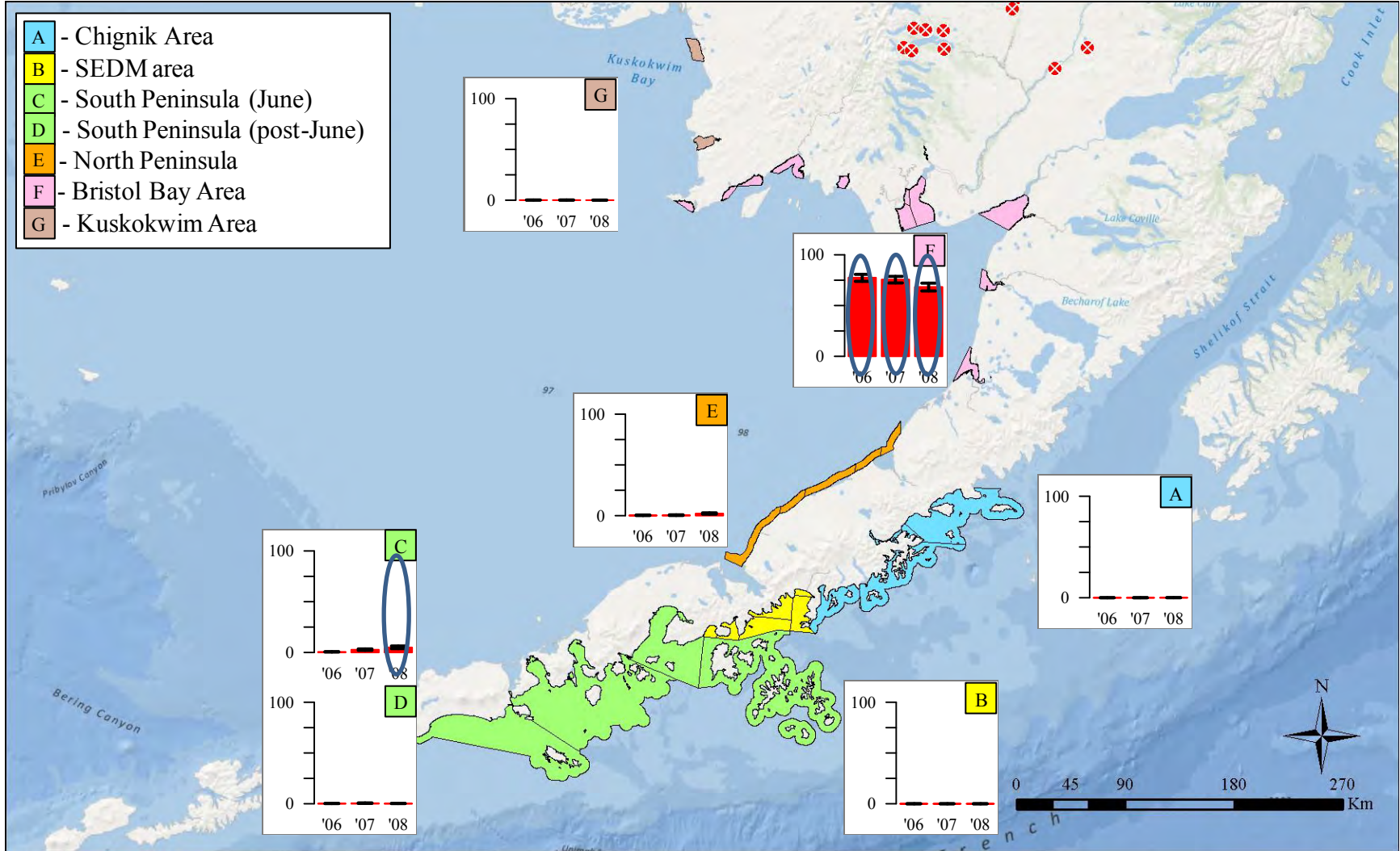
Wood River stock: harvest rate



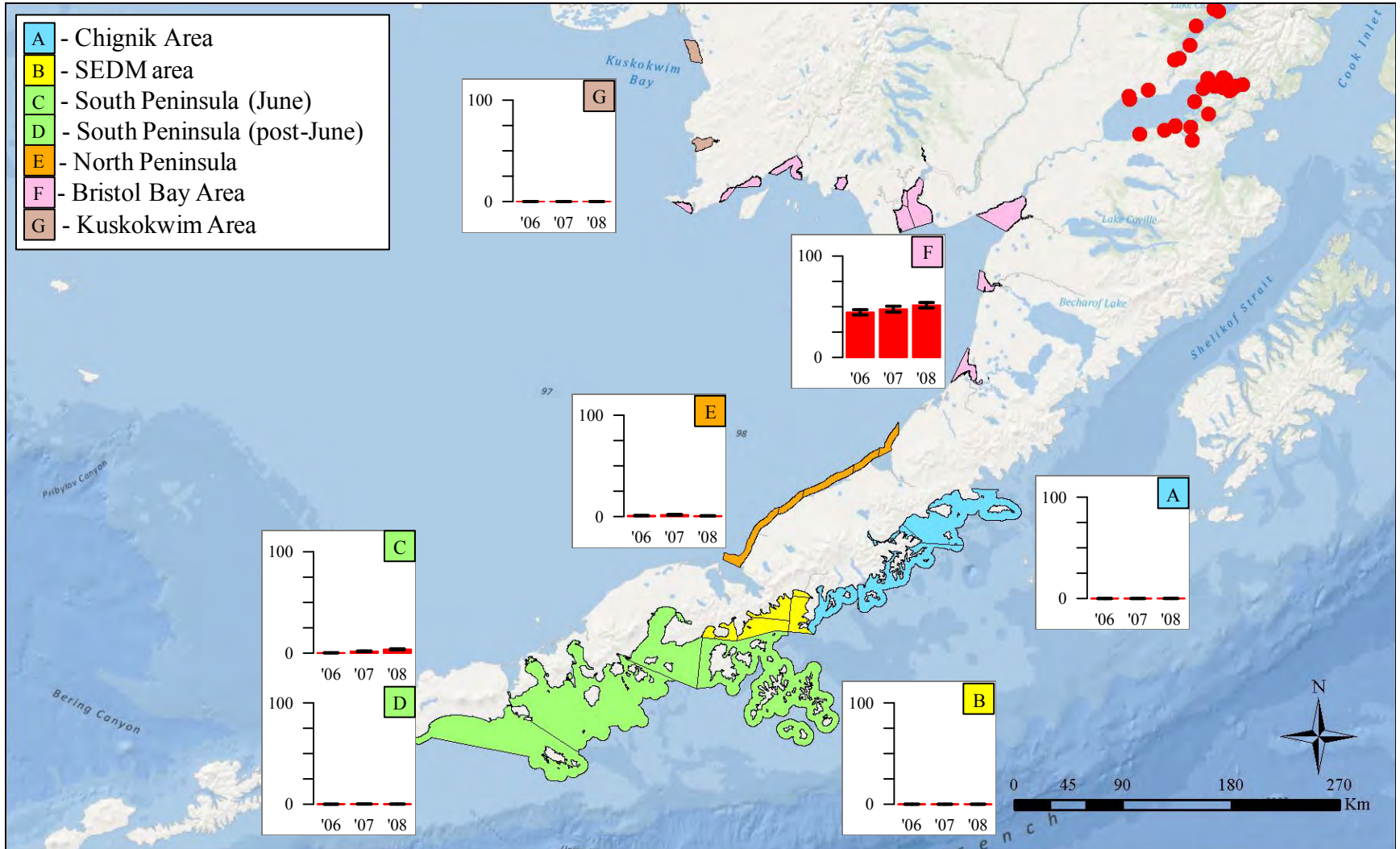
Nushagak River stock: harvest rate



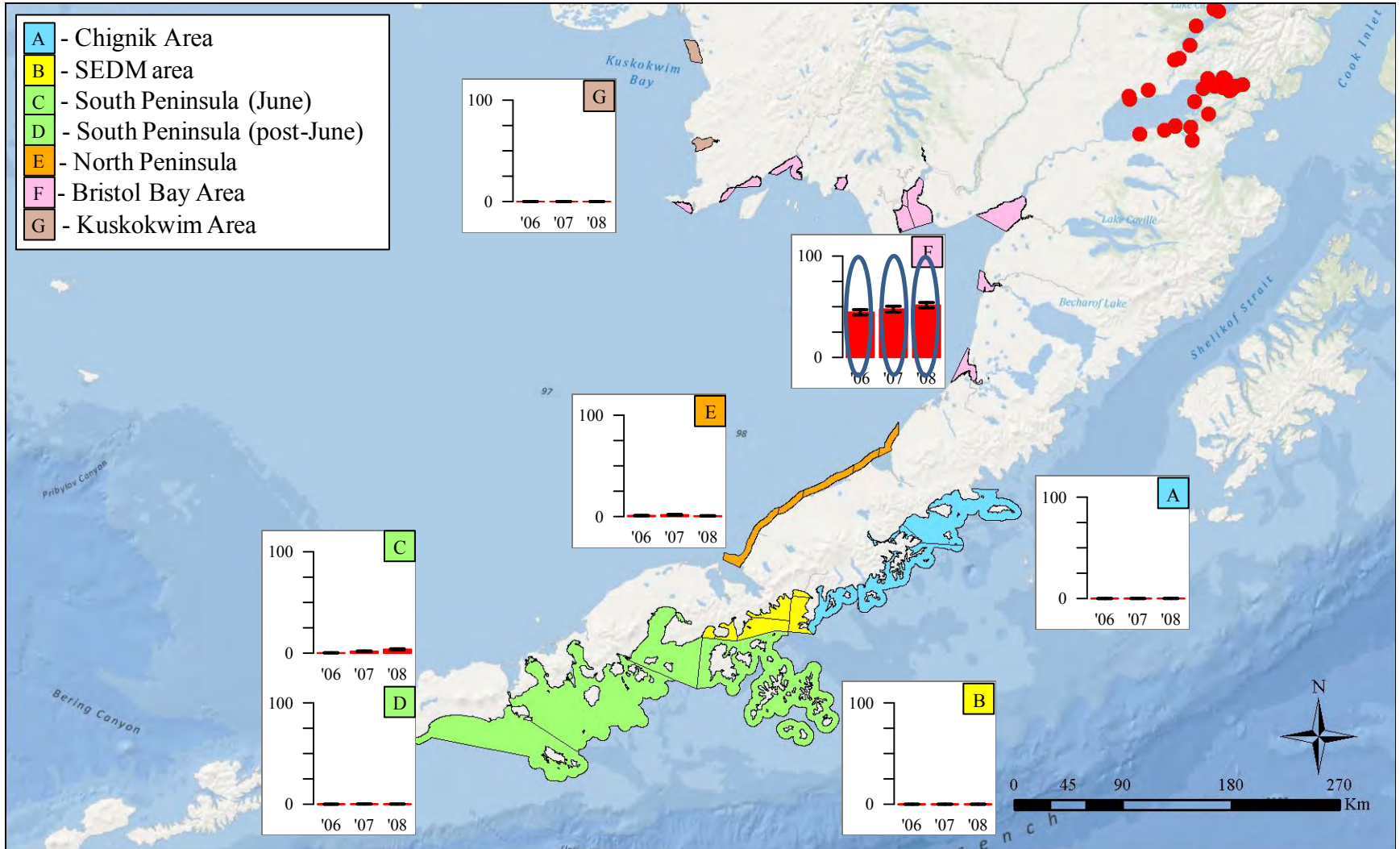
Nushagak River stock: harvest rate



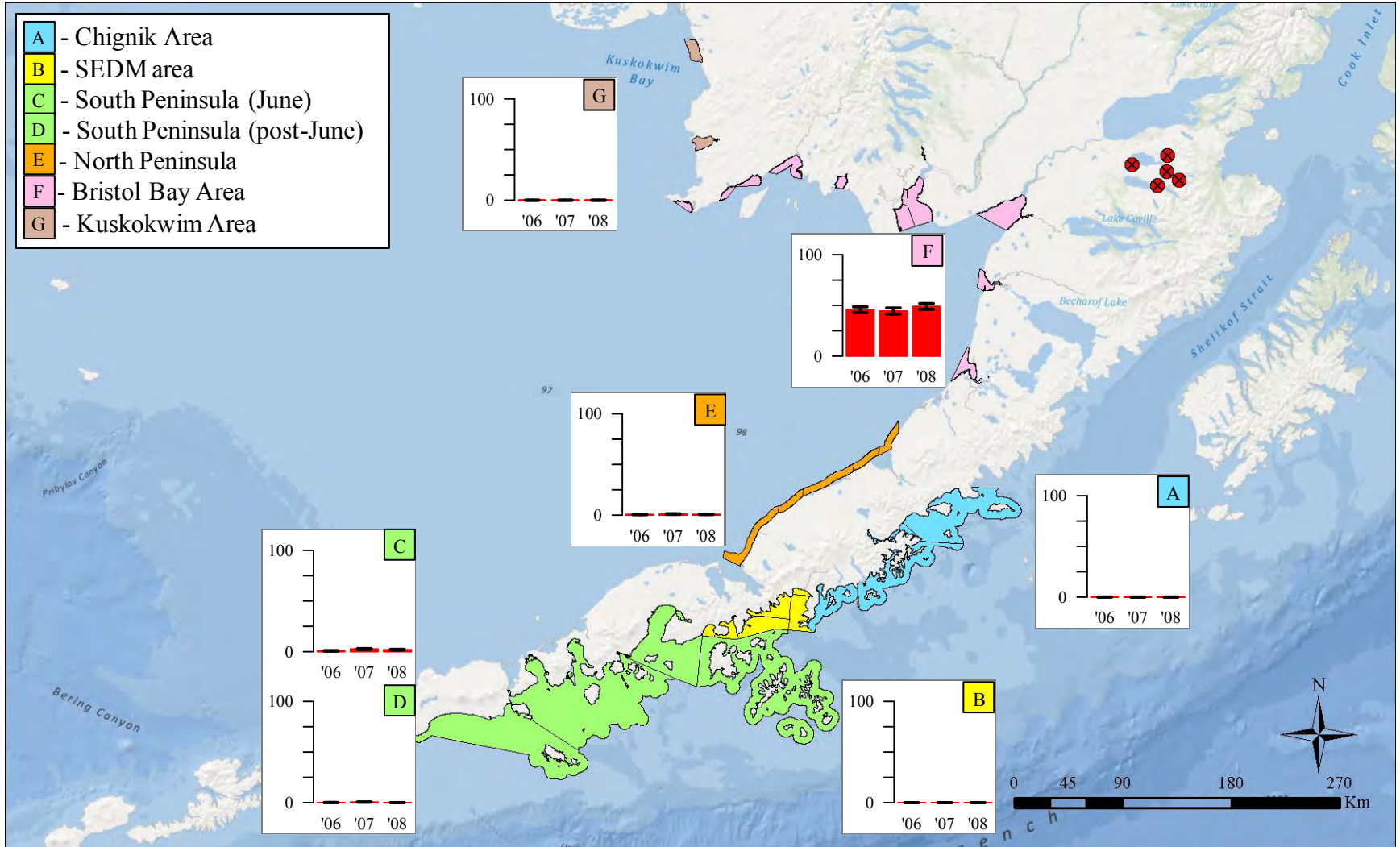
Kvichak River stock: harvest rate



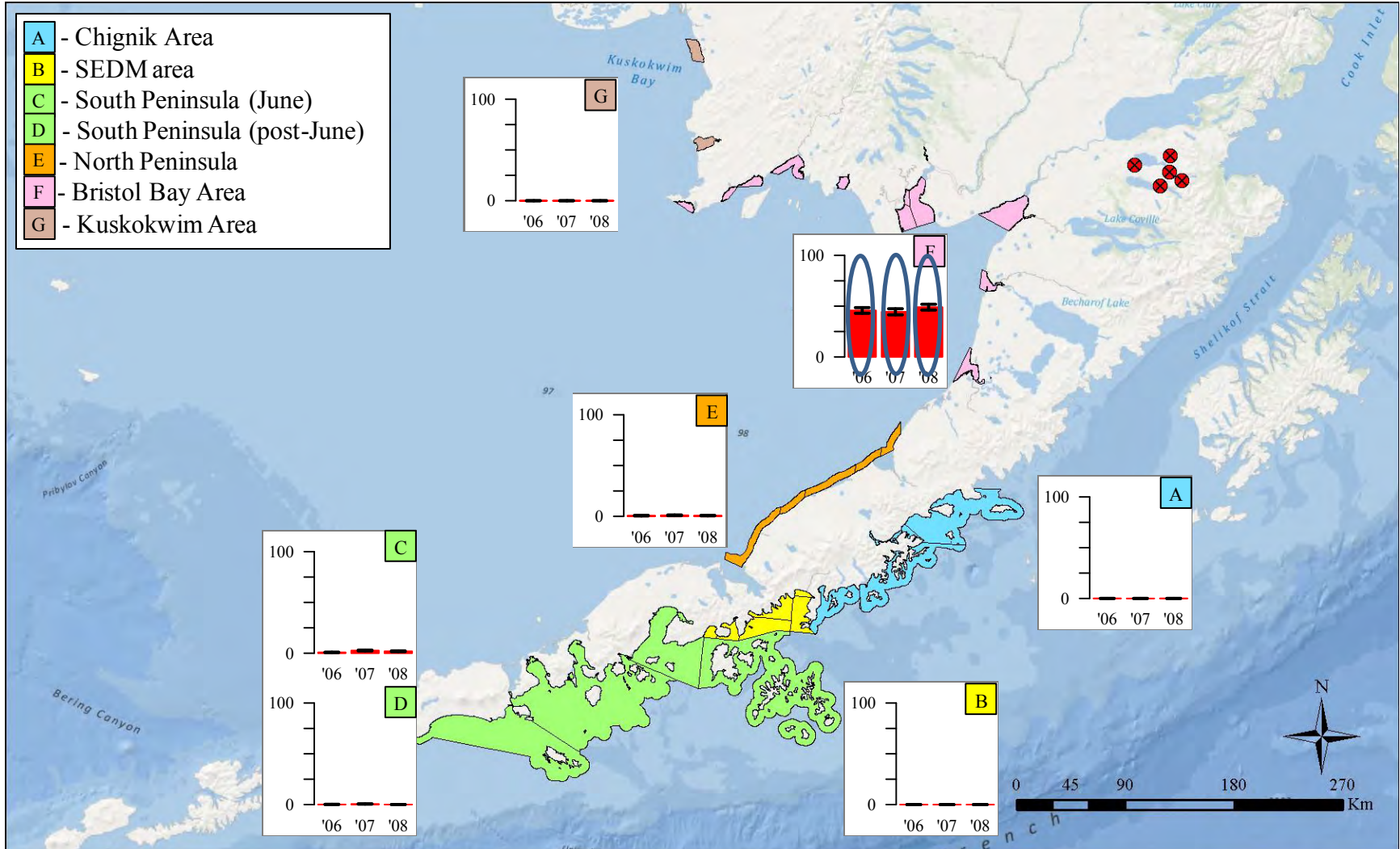
Kvichak River stock: harvest rate



Alagnak River stock: harvest rate

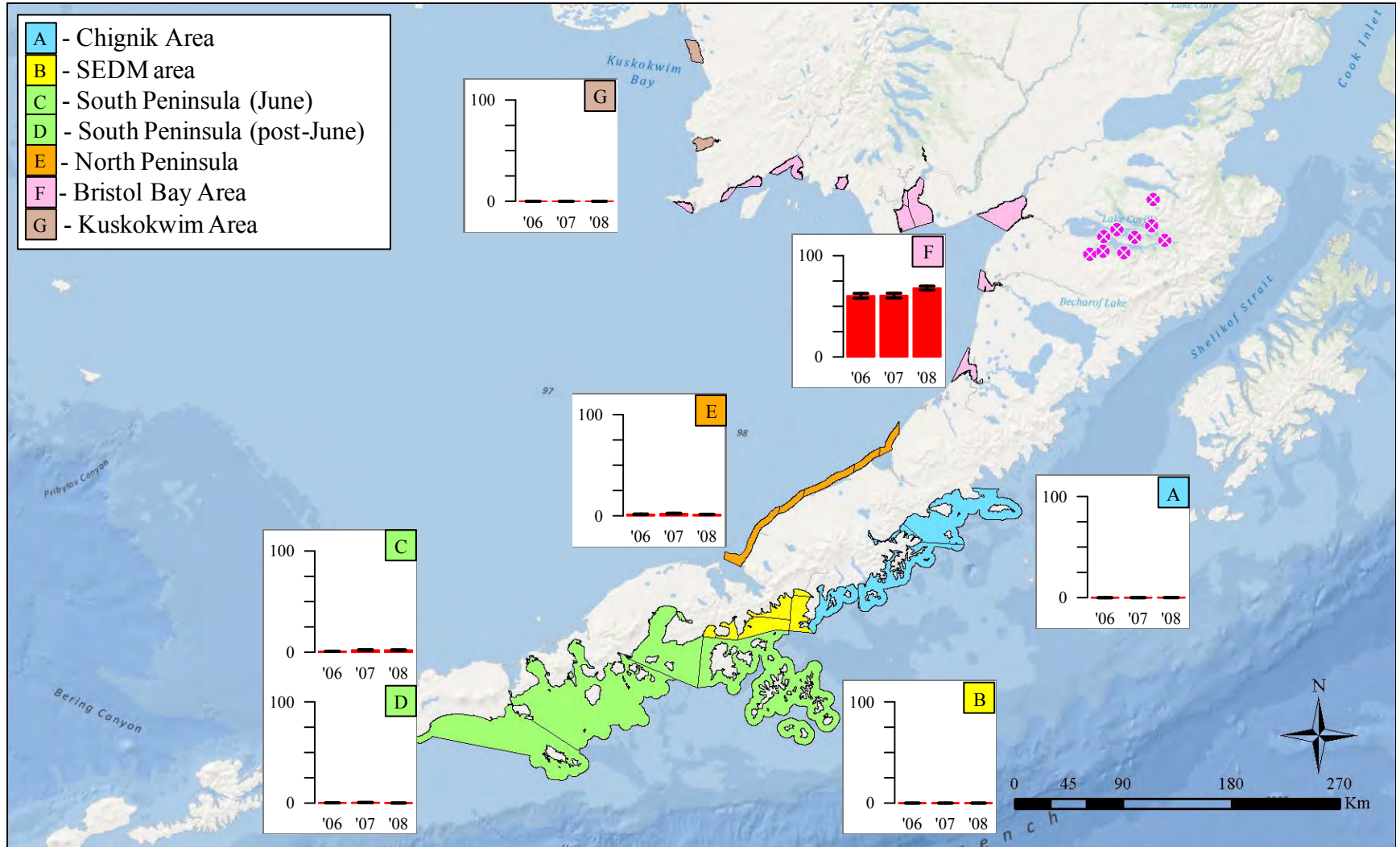


Alagnak River stock: harvest rate



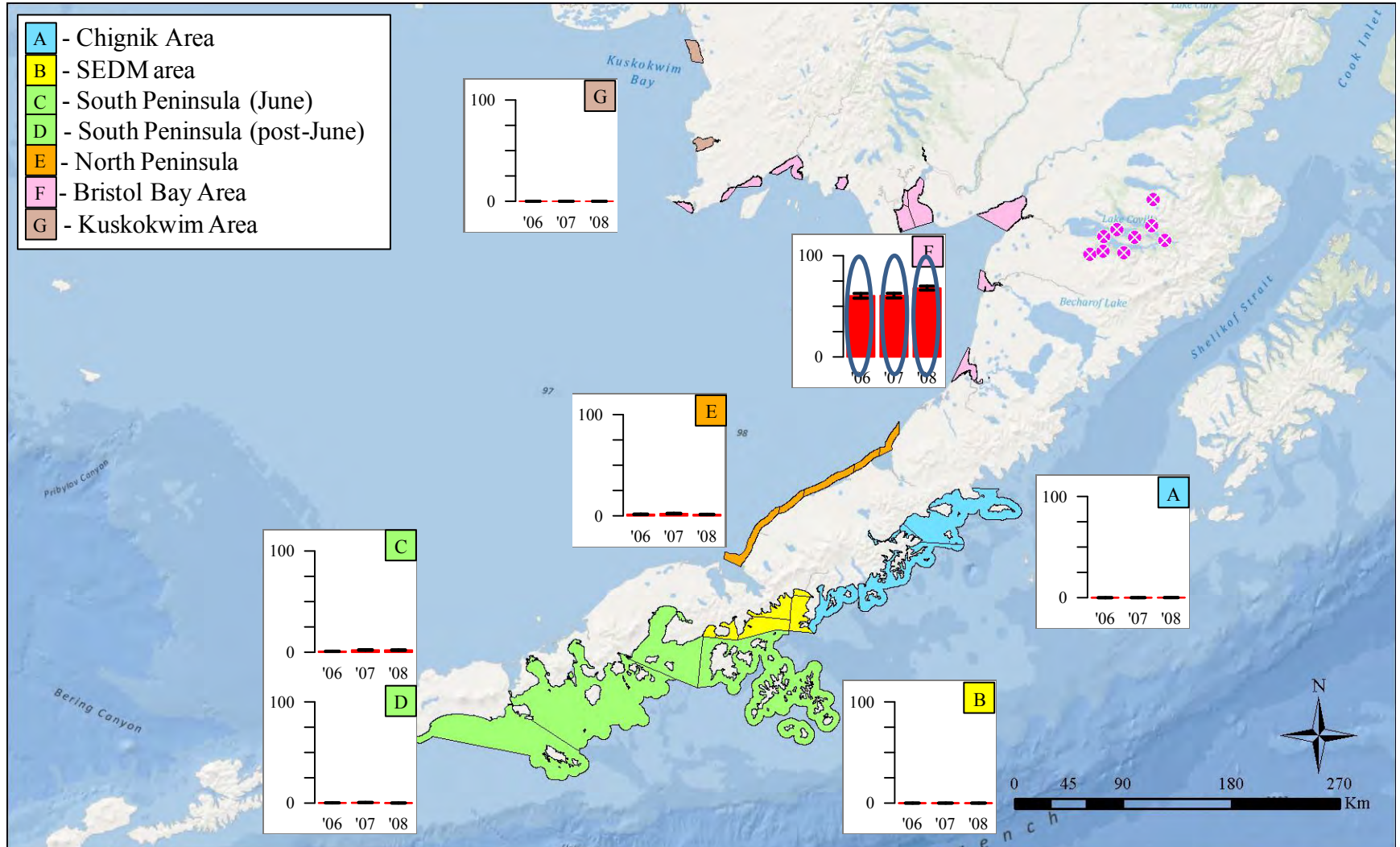


Naknek River stock: harvest rate

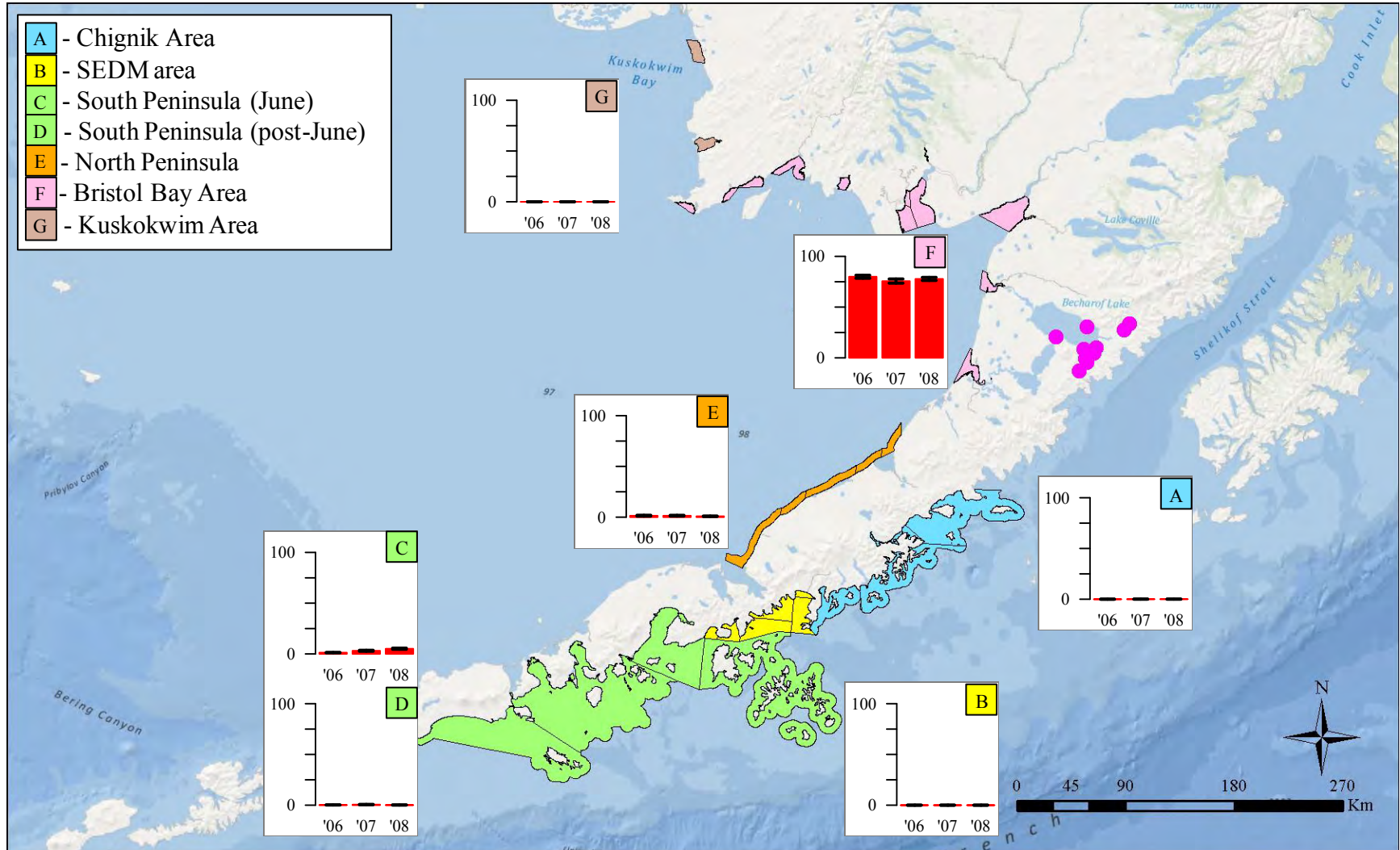




Naknek River stock: harvest rate

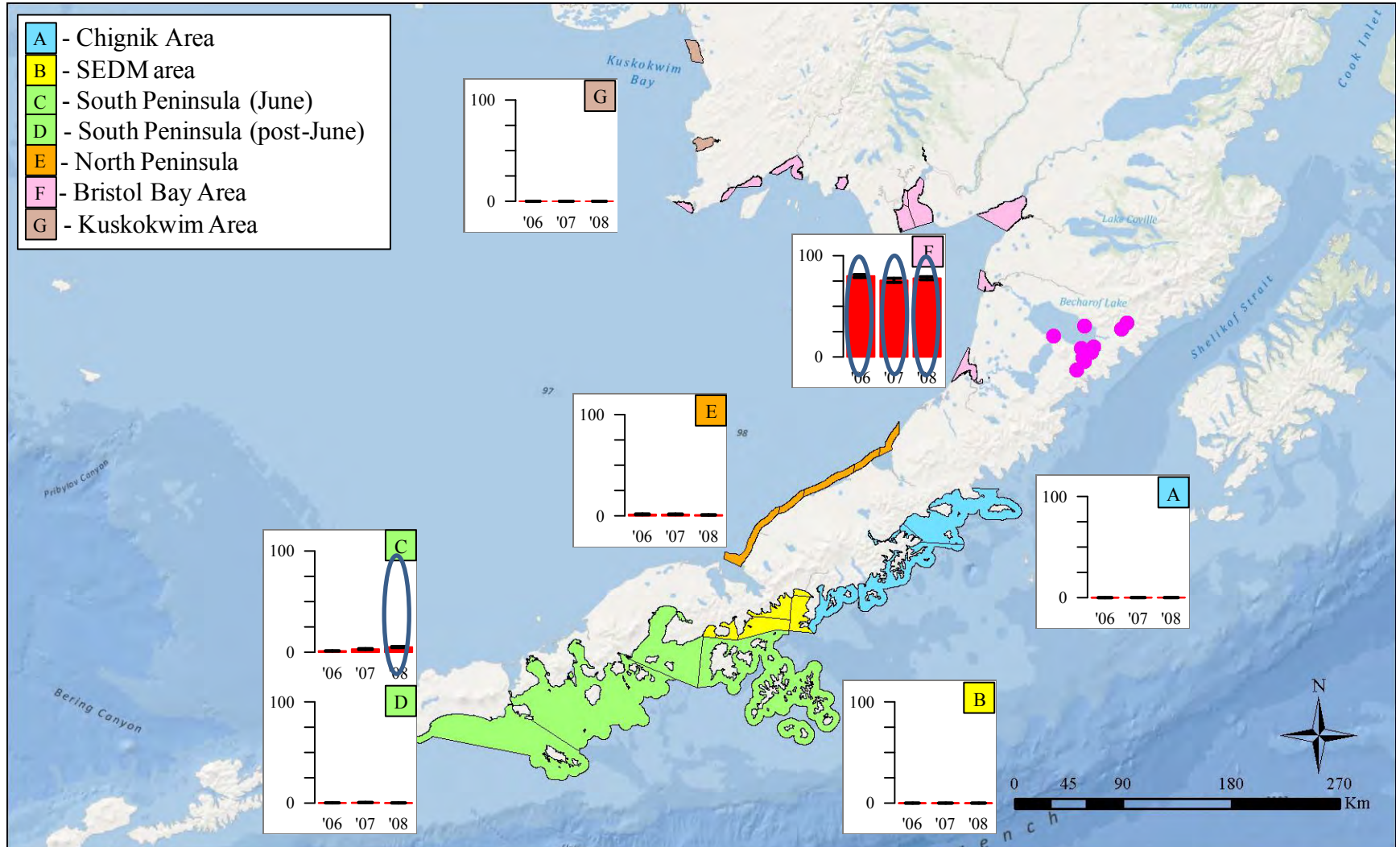


Egegik River stock: harvest rate



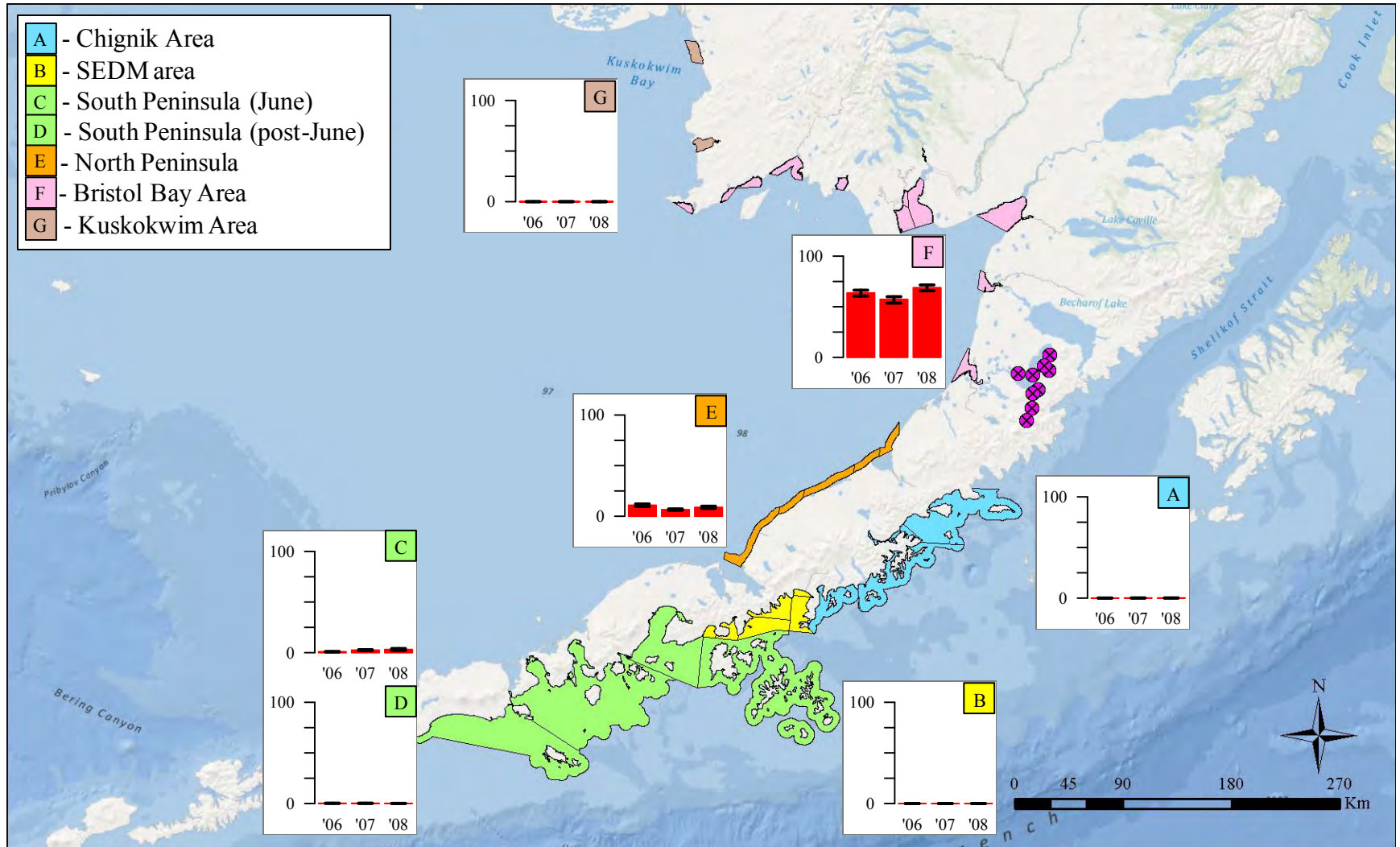


Egegik River stock: harvest rate



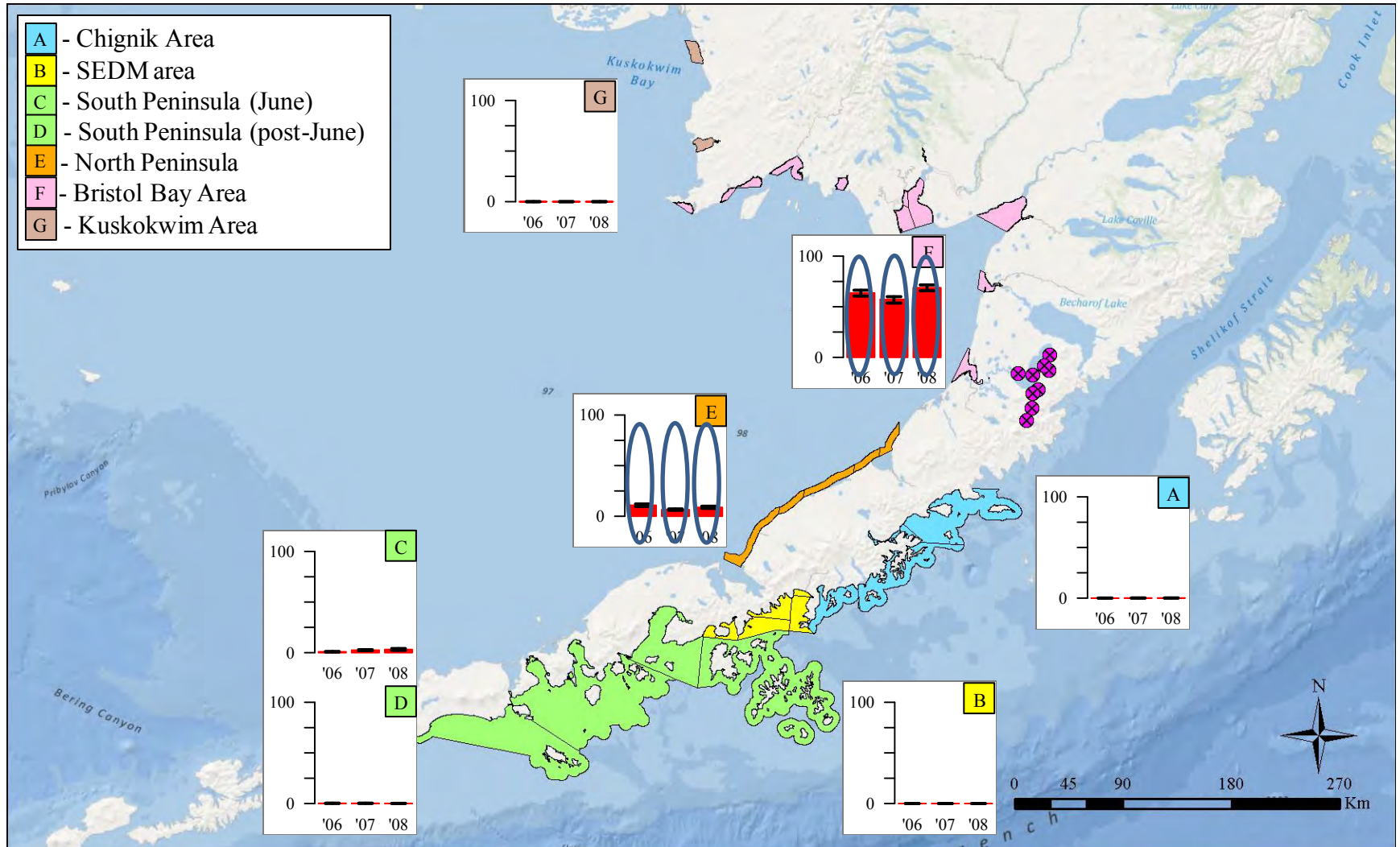


Ugashik River stock: harvest rate

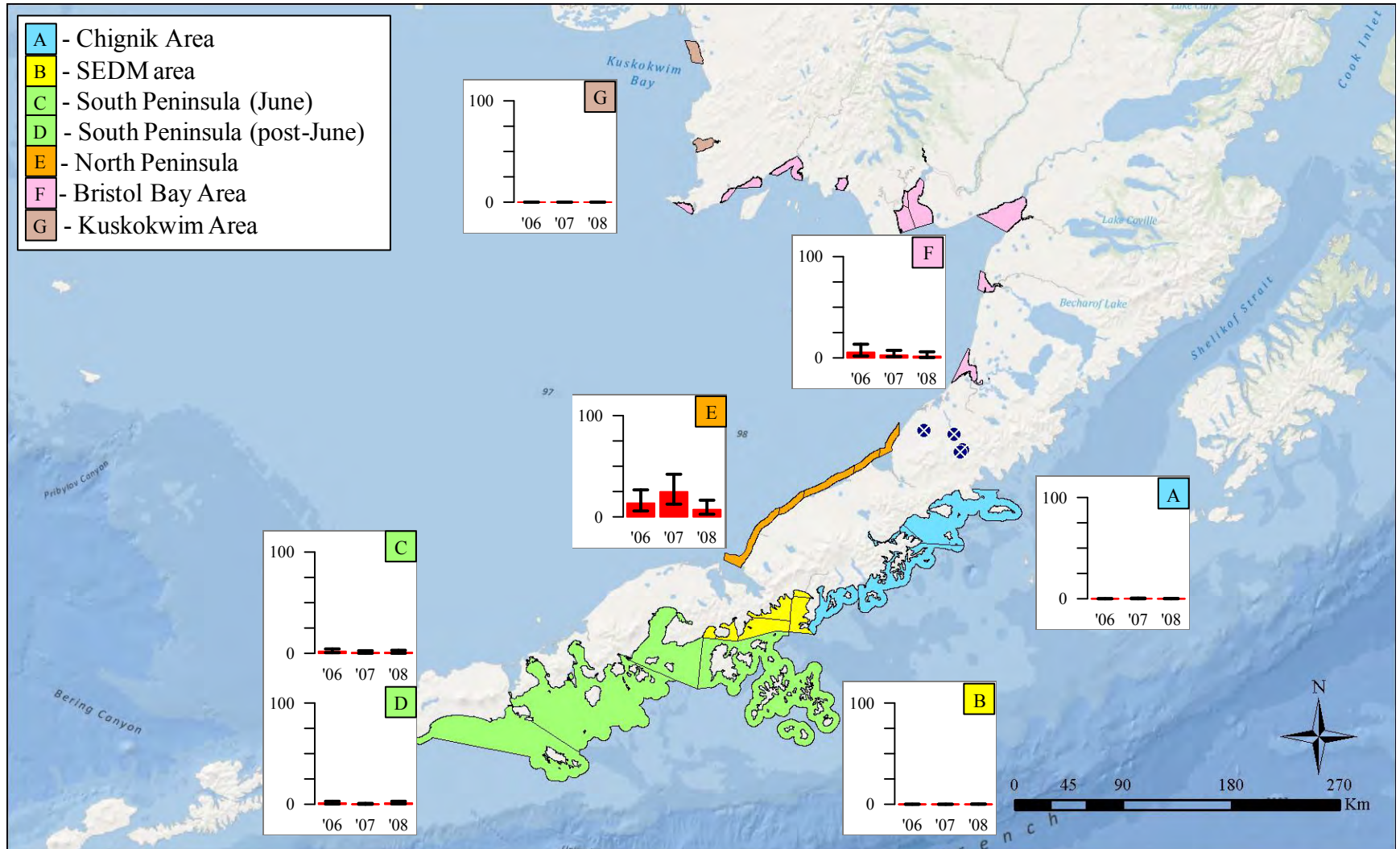




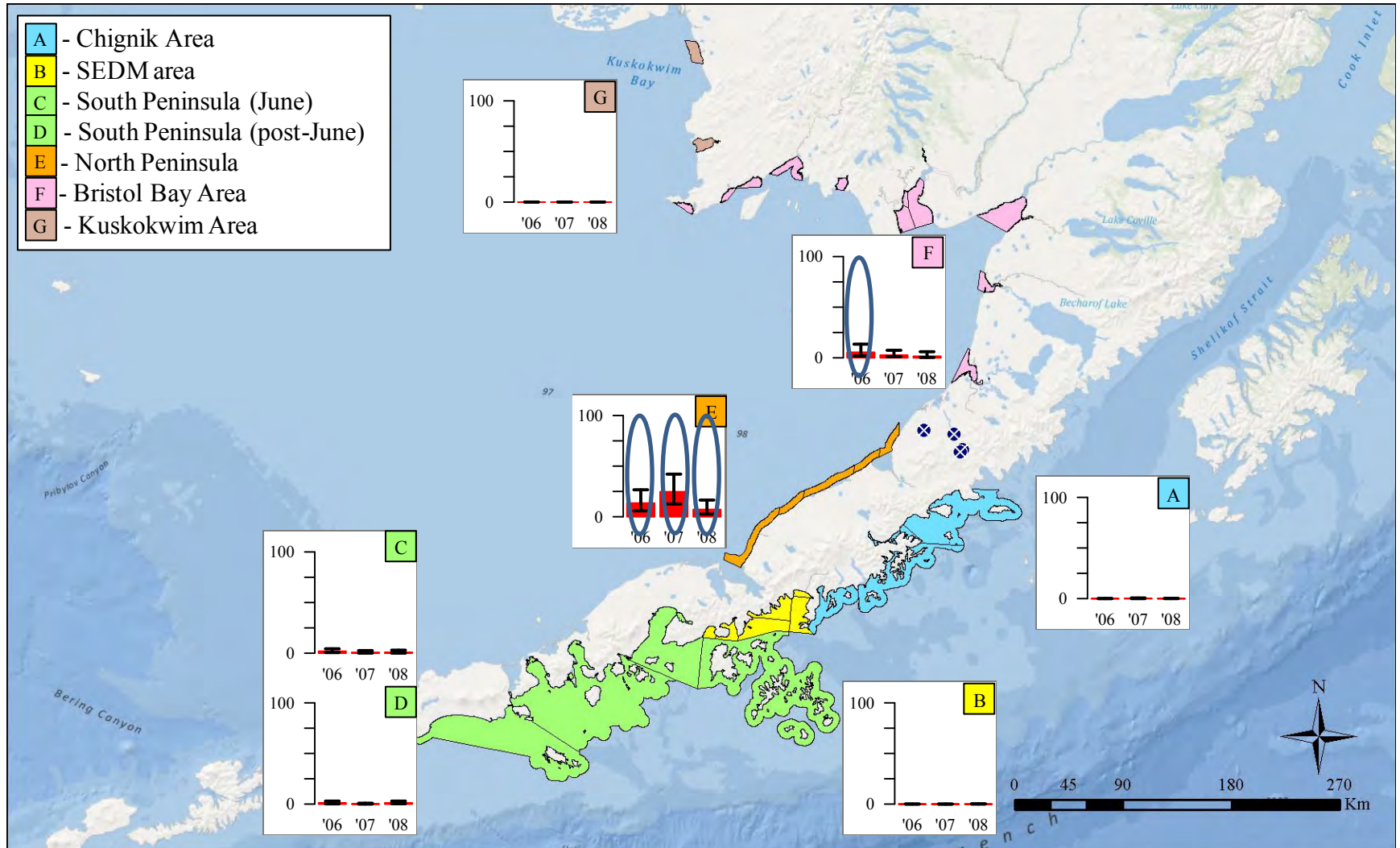
Ugashik River stock: harvest rate



Cinder River stock: harvest rate

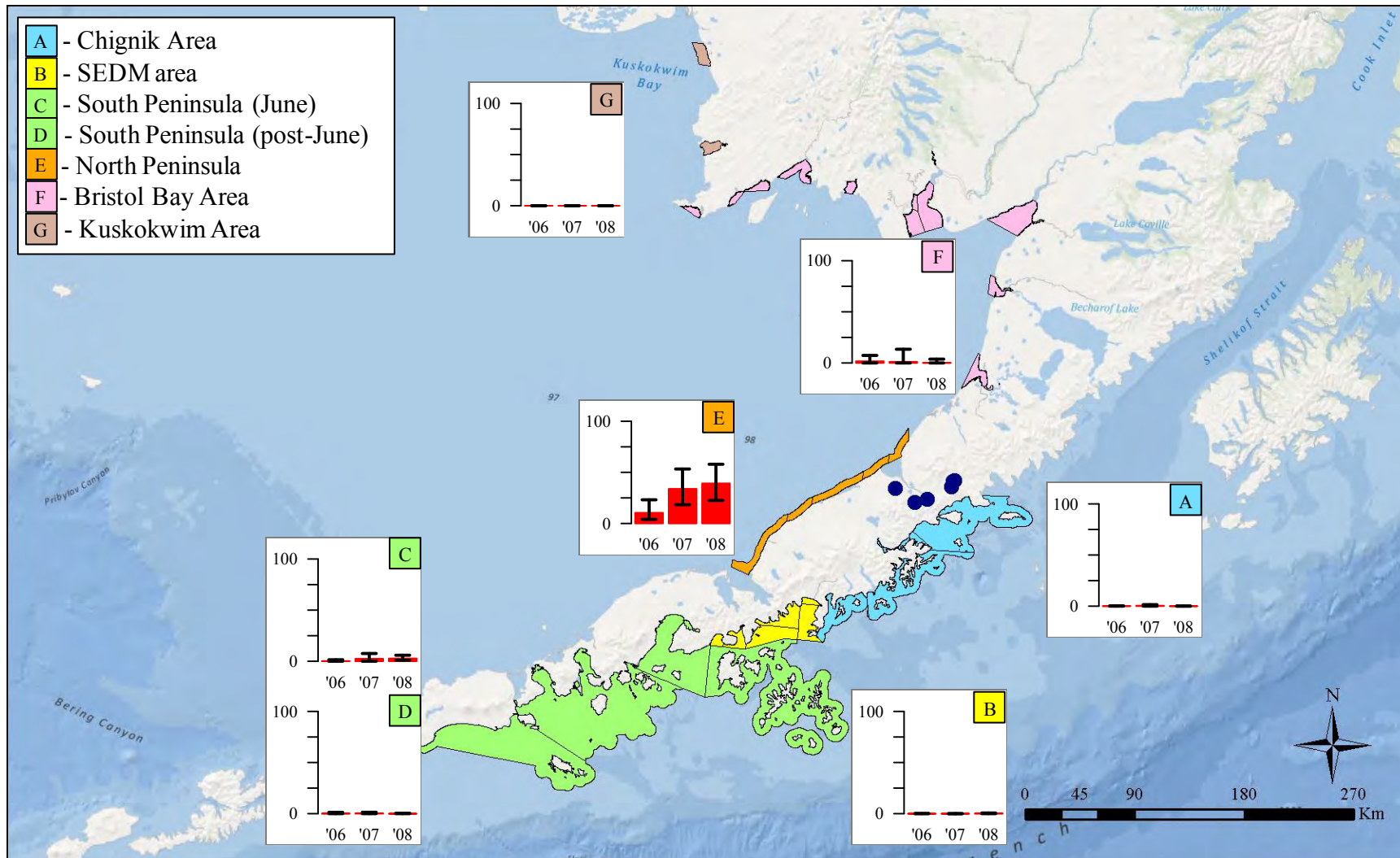


Cinder River stock: harvest rate



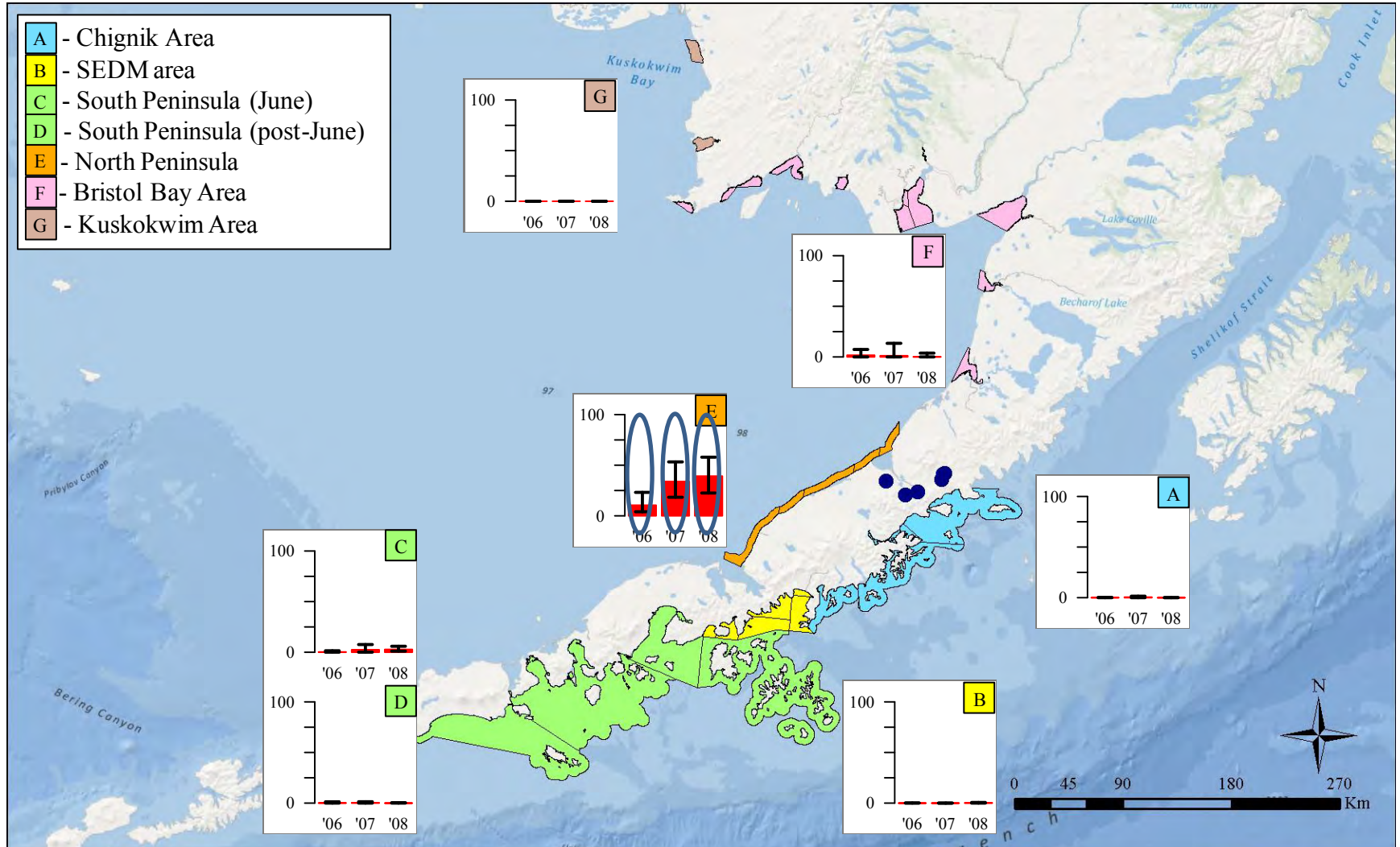


Meshik River stock: harvest rate



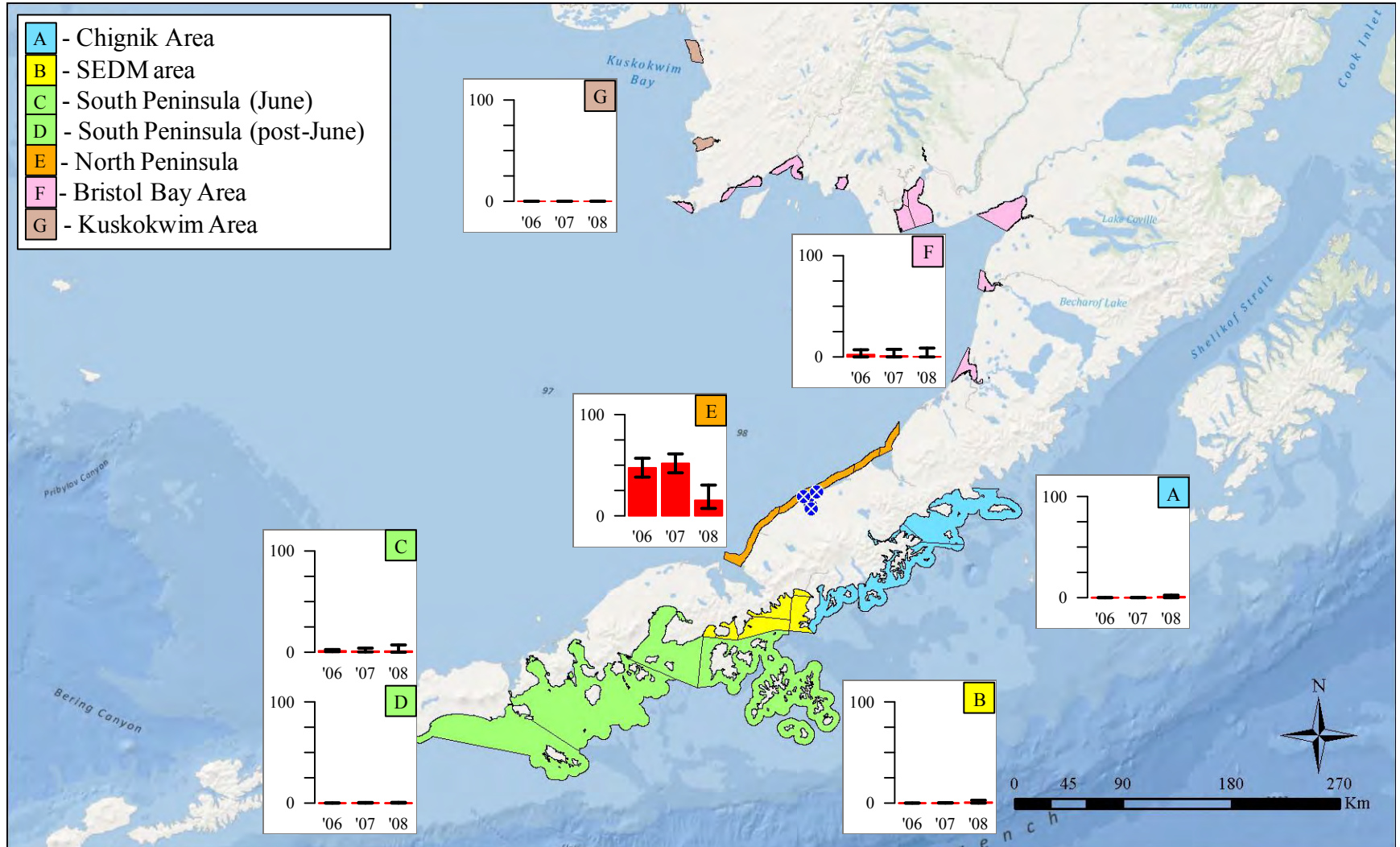


Meshik River stock: harvest rate



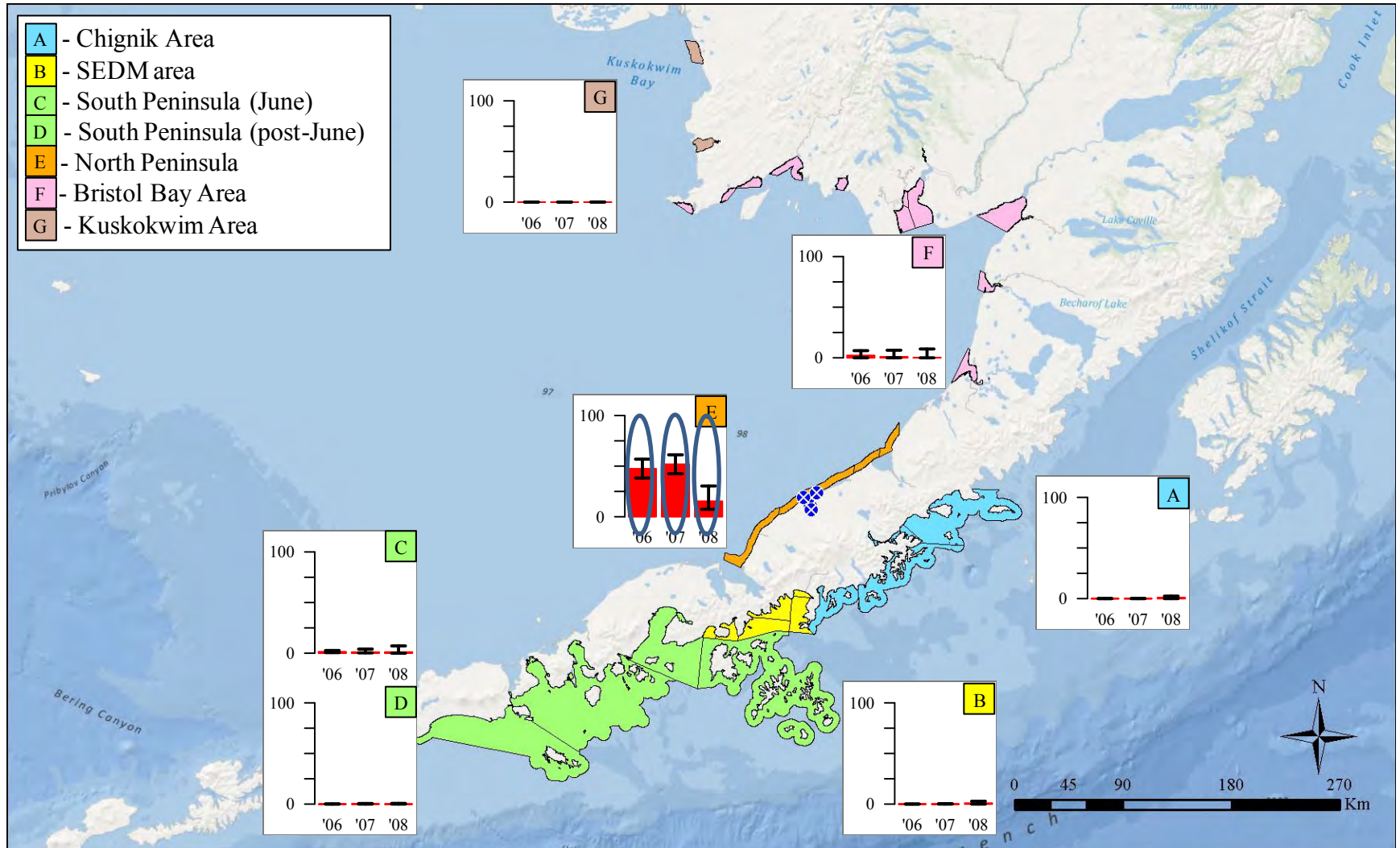


Ilnik River stock: harvest rate



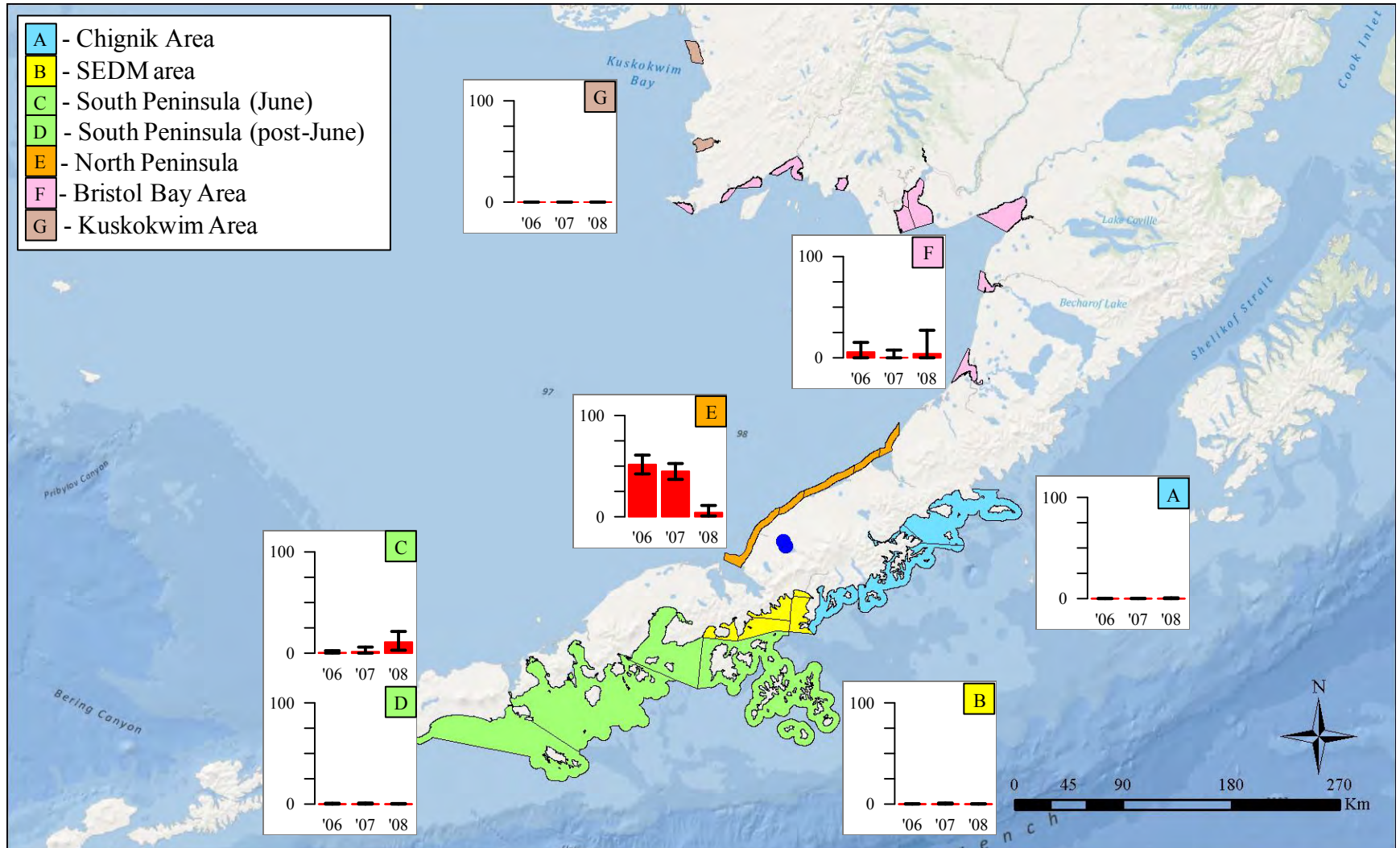


Ilnik River stock: harvest rate



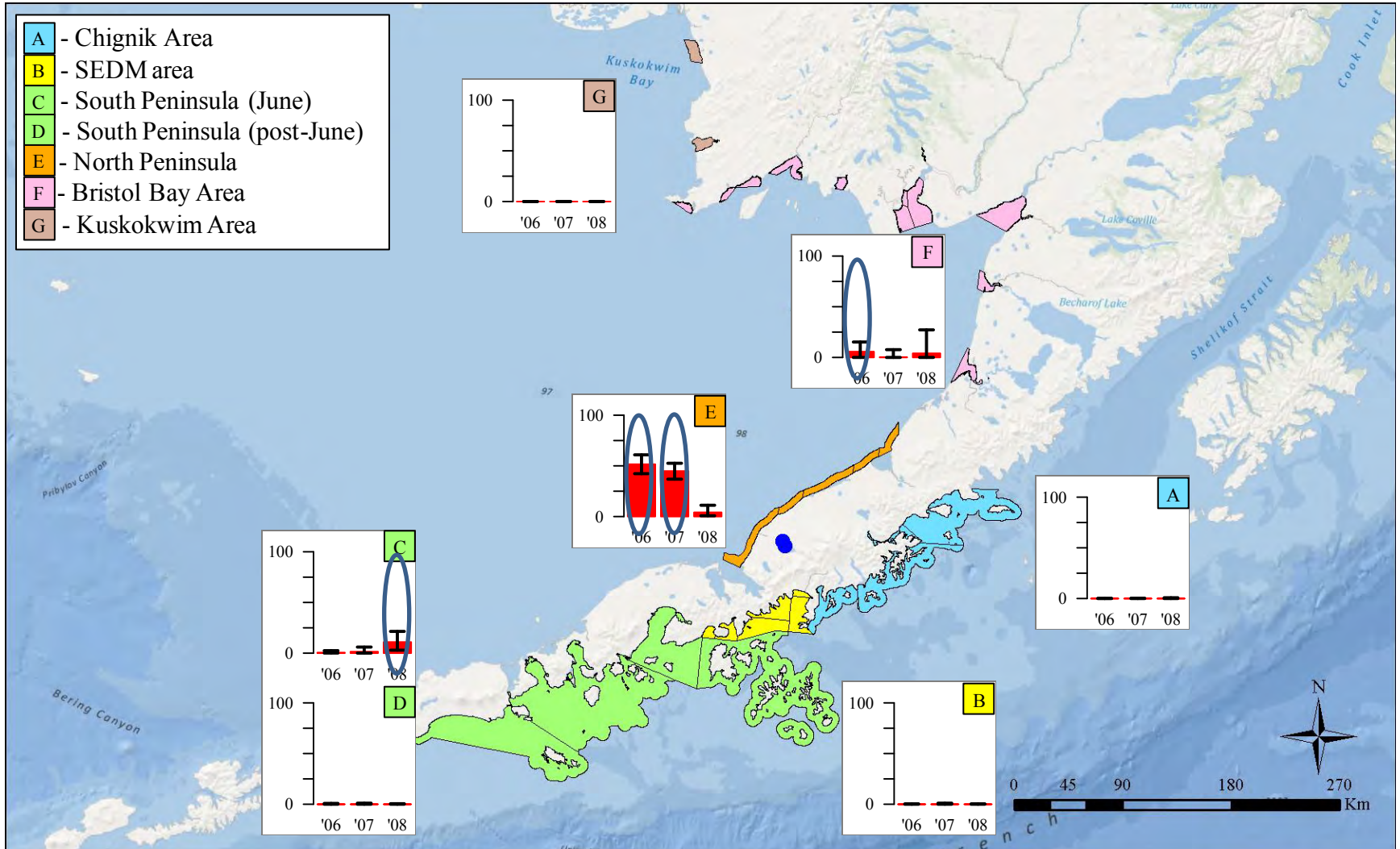


Sandy River stock: harvest rate



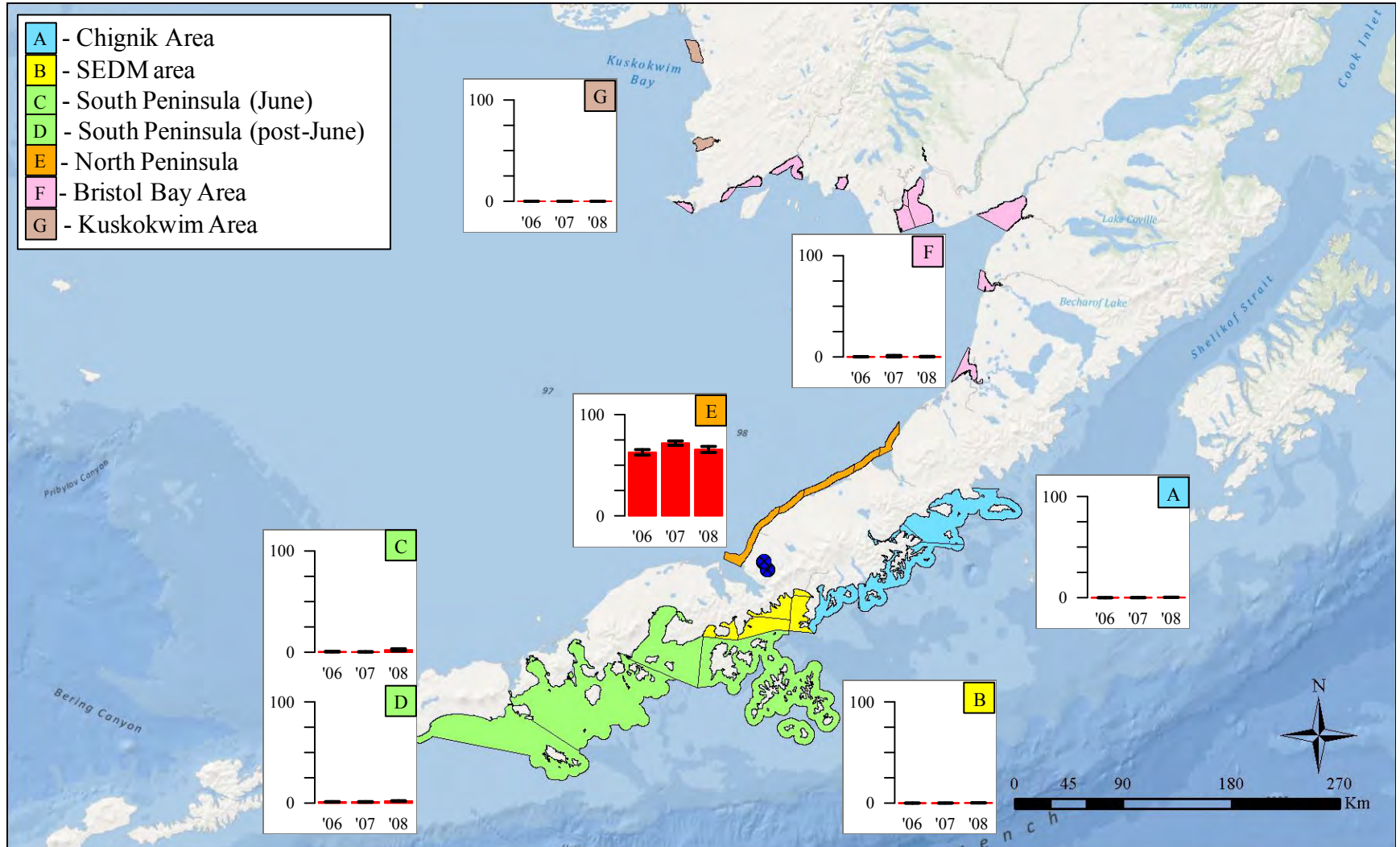


Sandy River stock: harvest rate



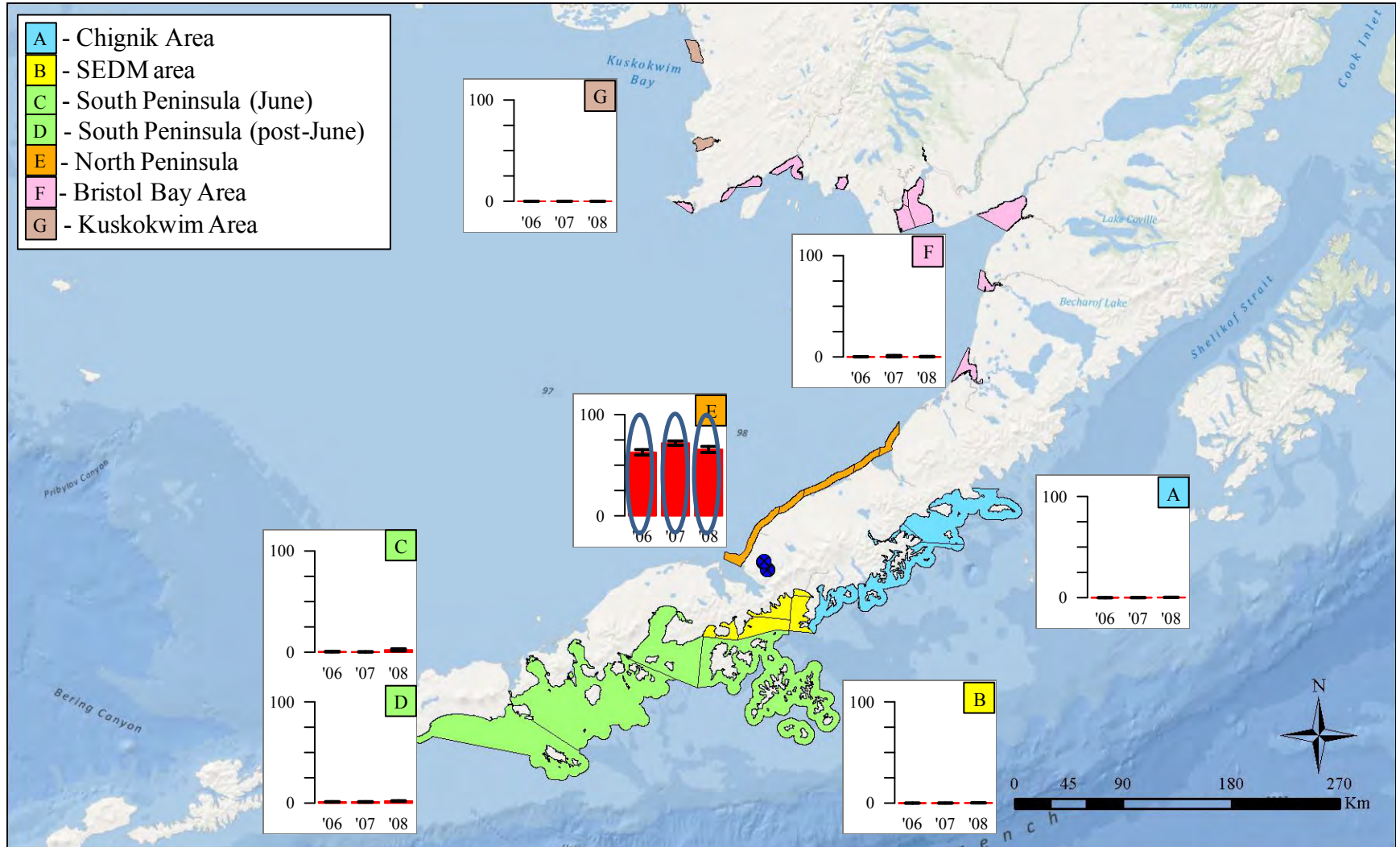


Bear River stock: harvest rate



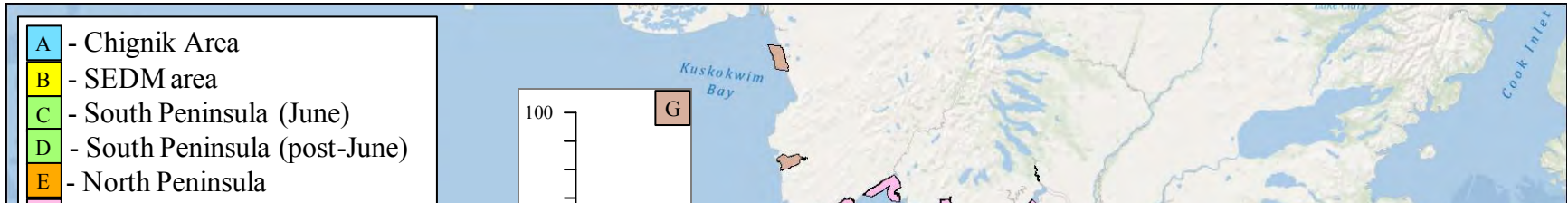


Bear River stock: harvest rate

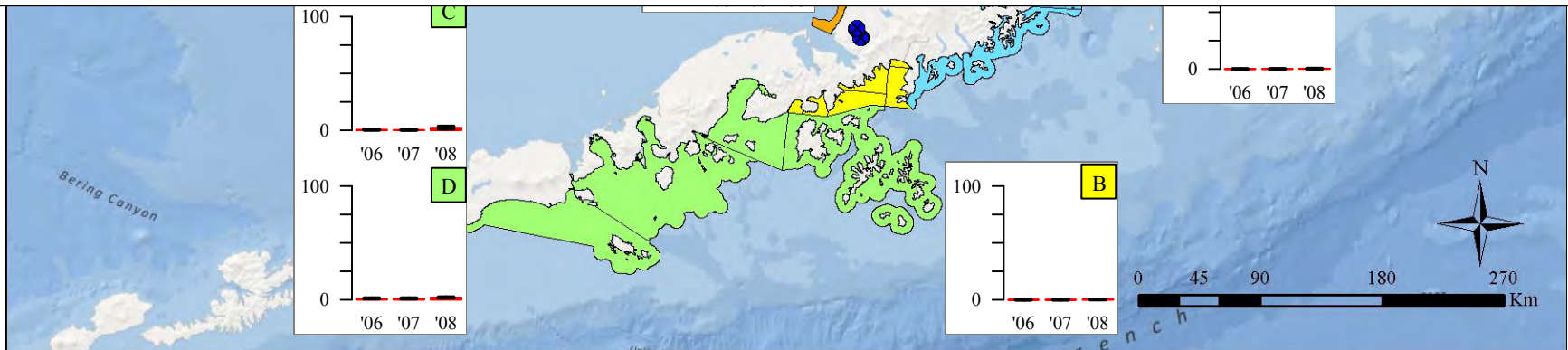




Bear River stock: harvest rate

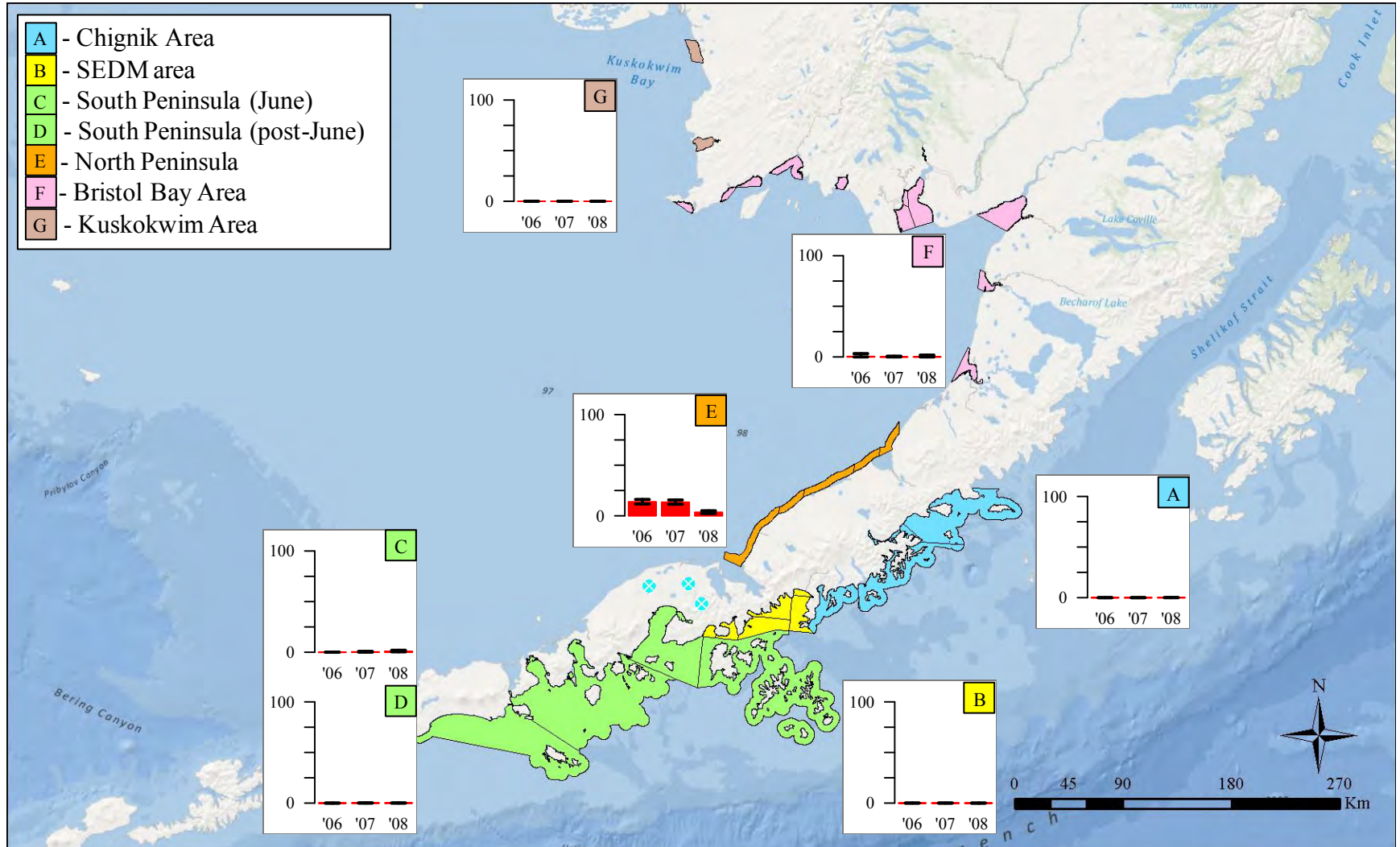


The department submitted RC 8 that separated Bear stock into early and late runs.



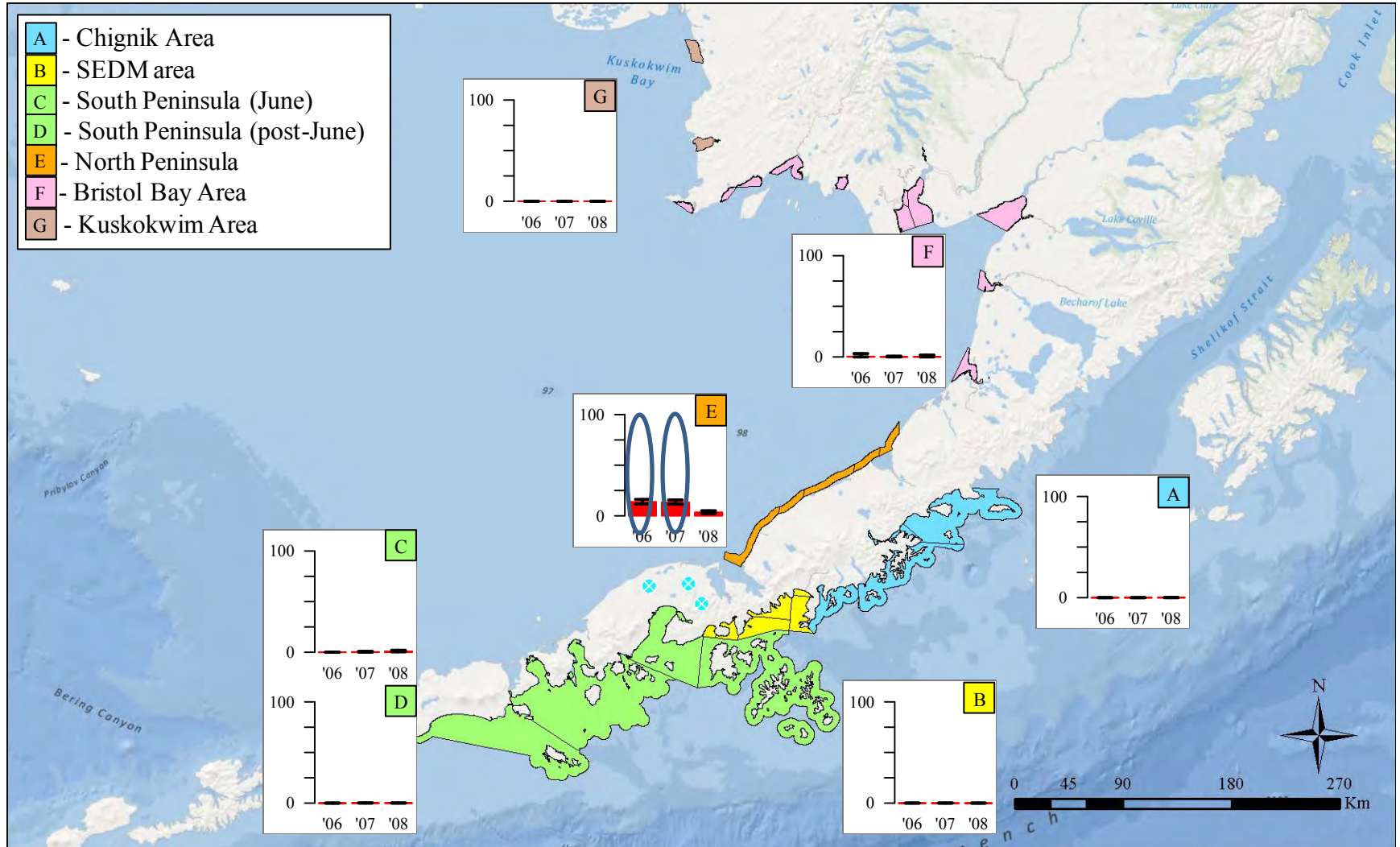


Nelson River stock: harvest rate



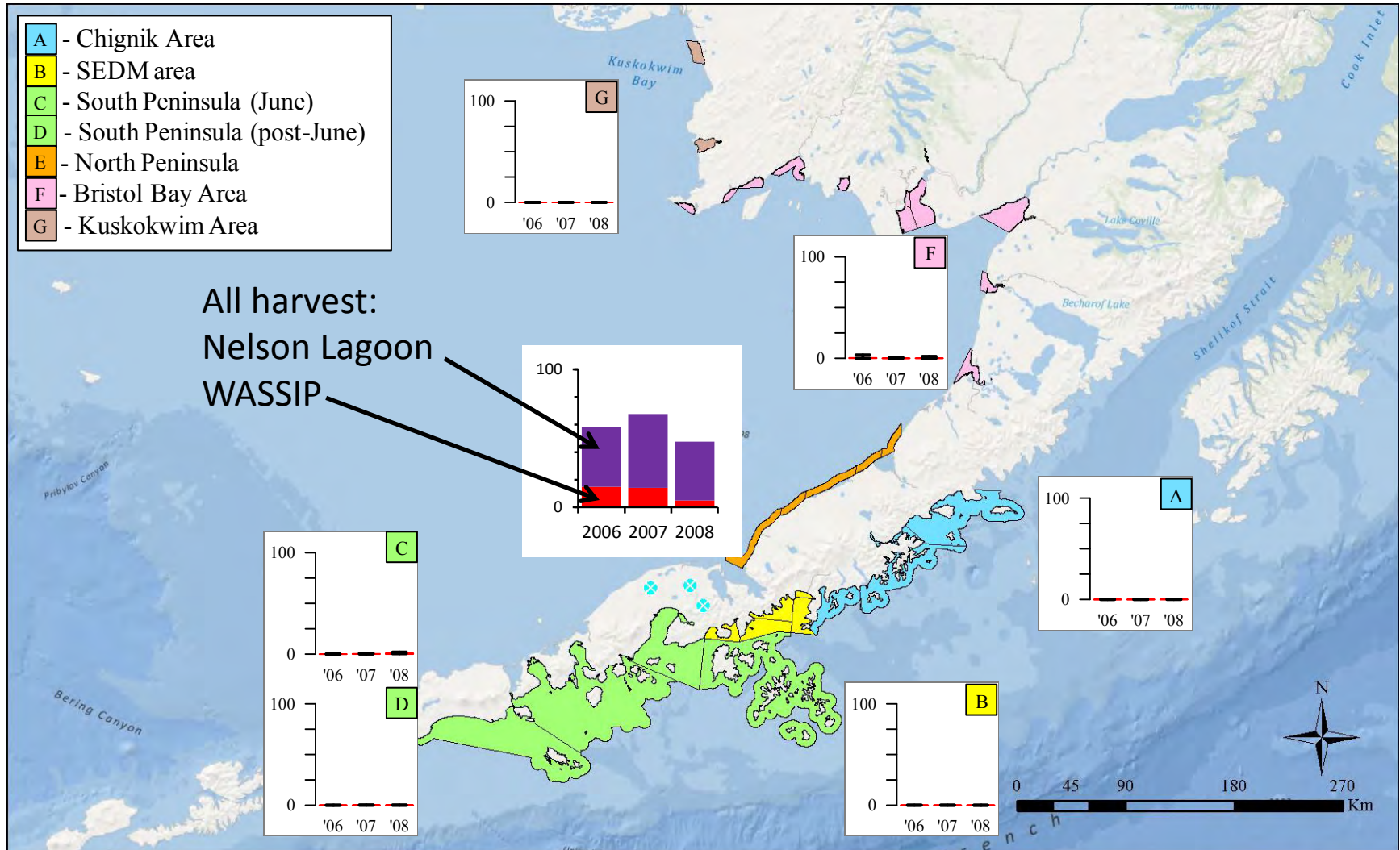


Nelson River stock: harvest rate

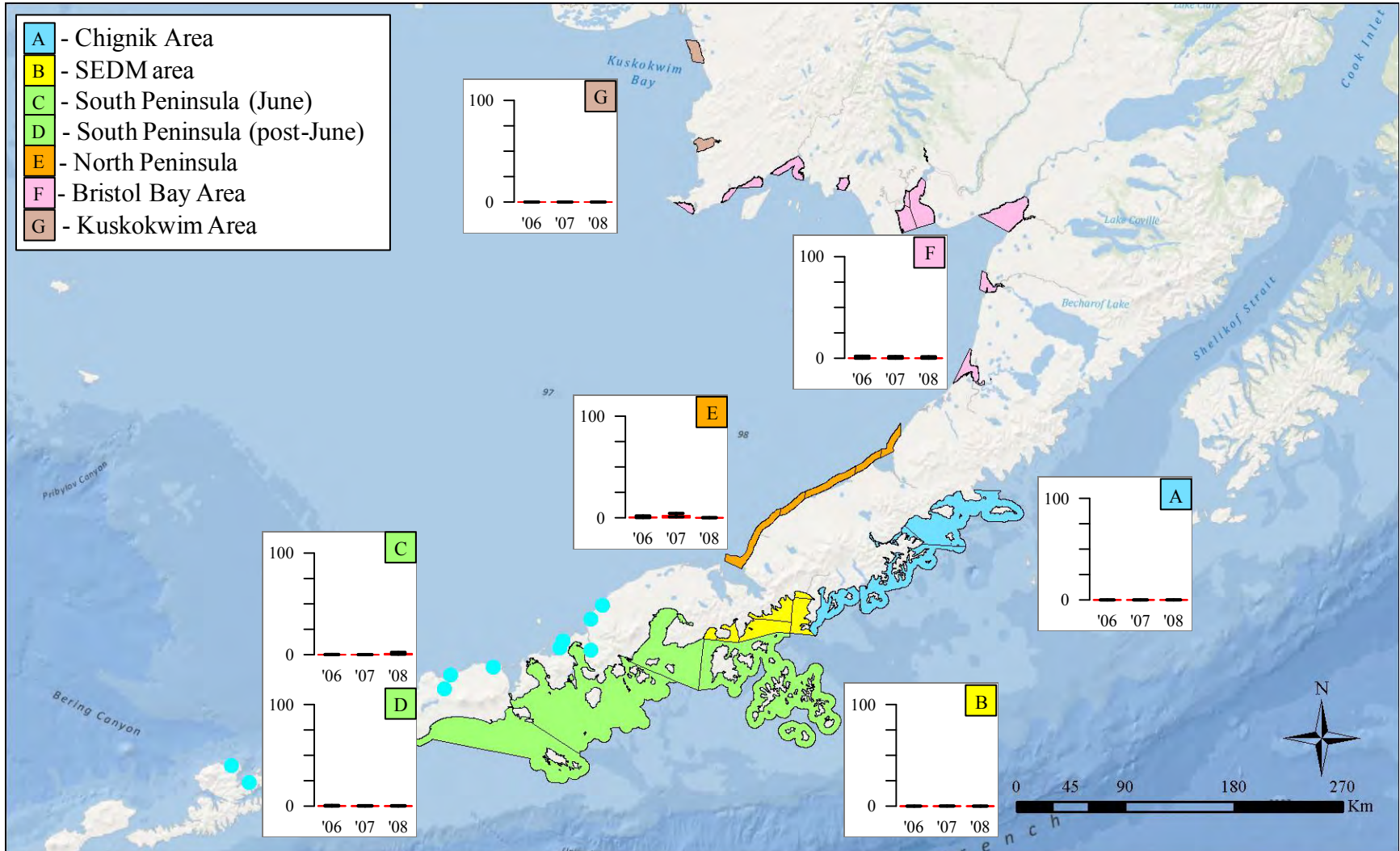




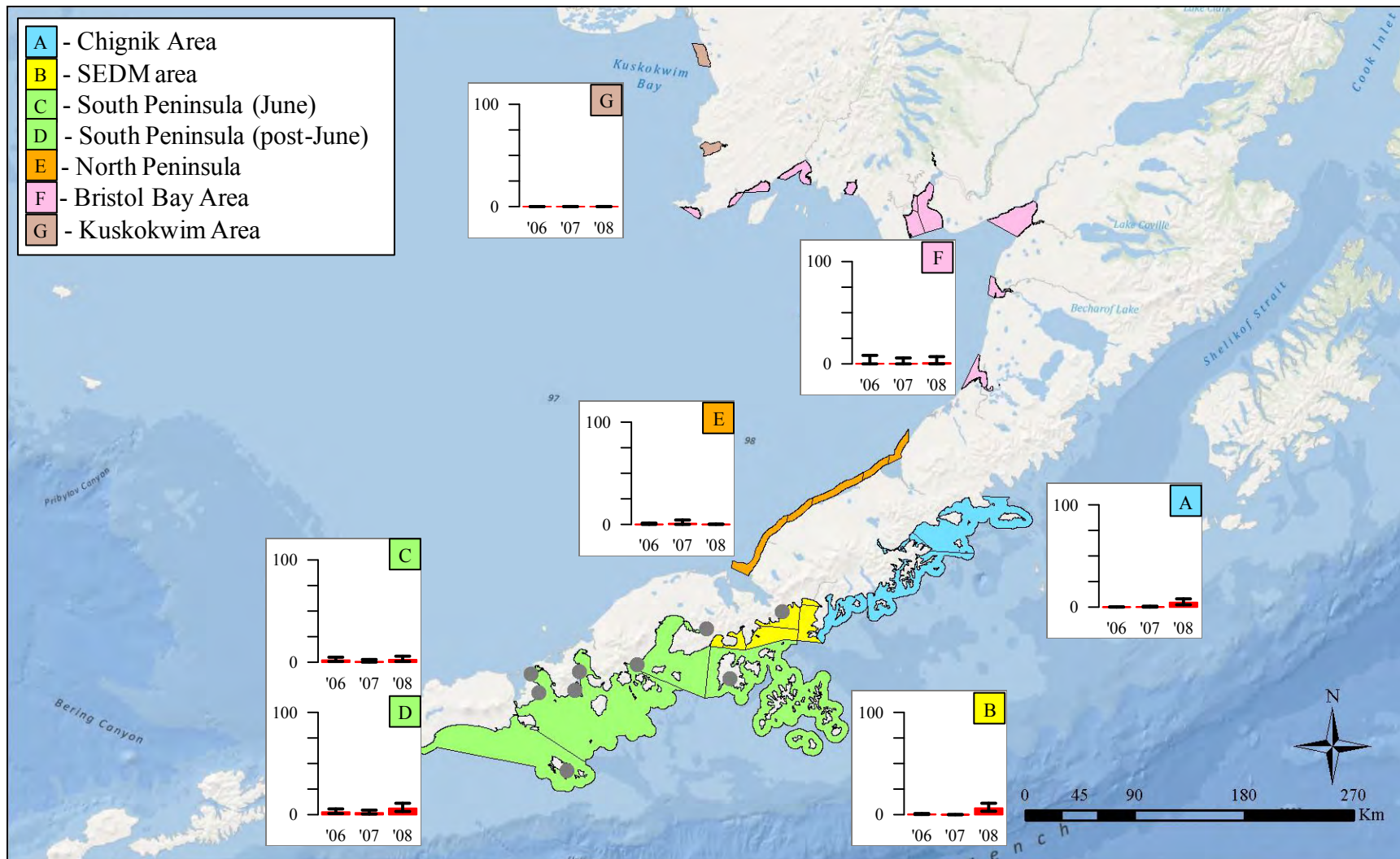
Nelson River stock: harvest rate



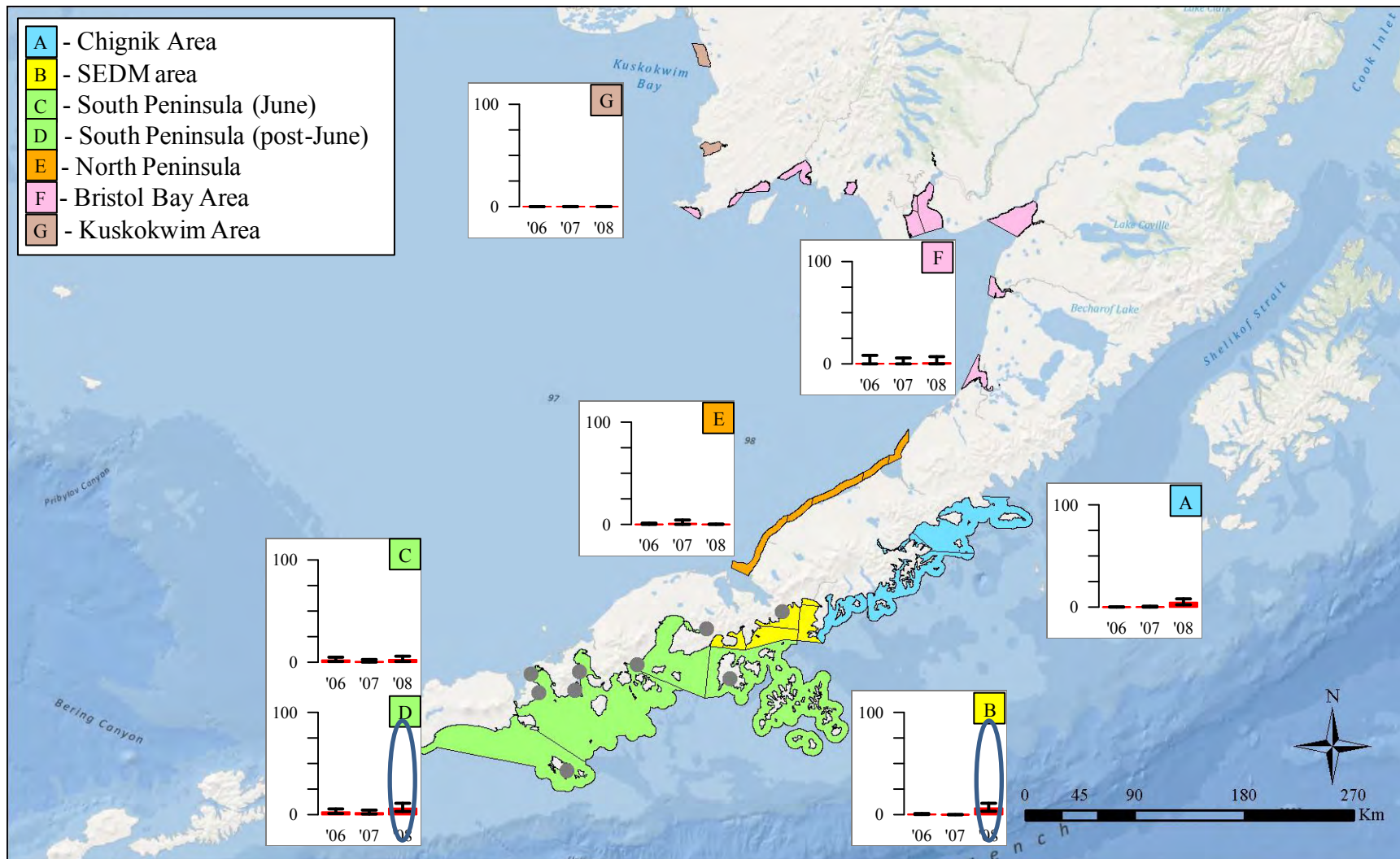
Northwestern District - Black Hills stock: harvest rate



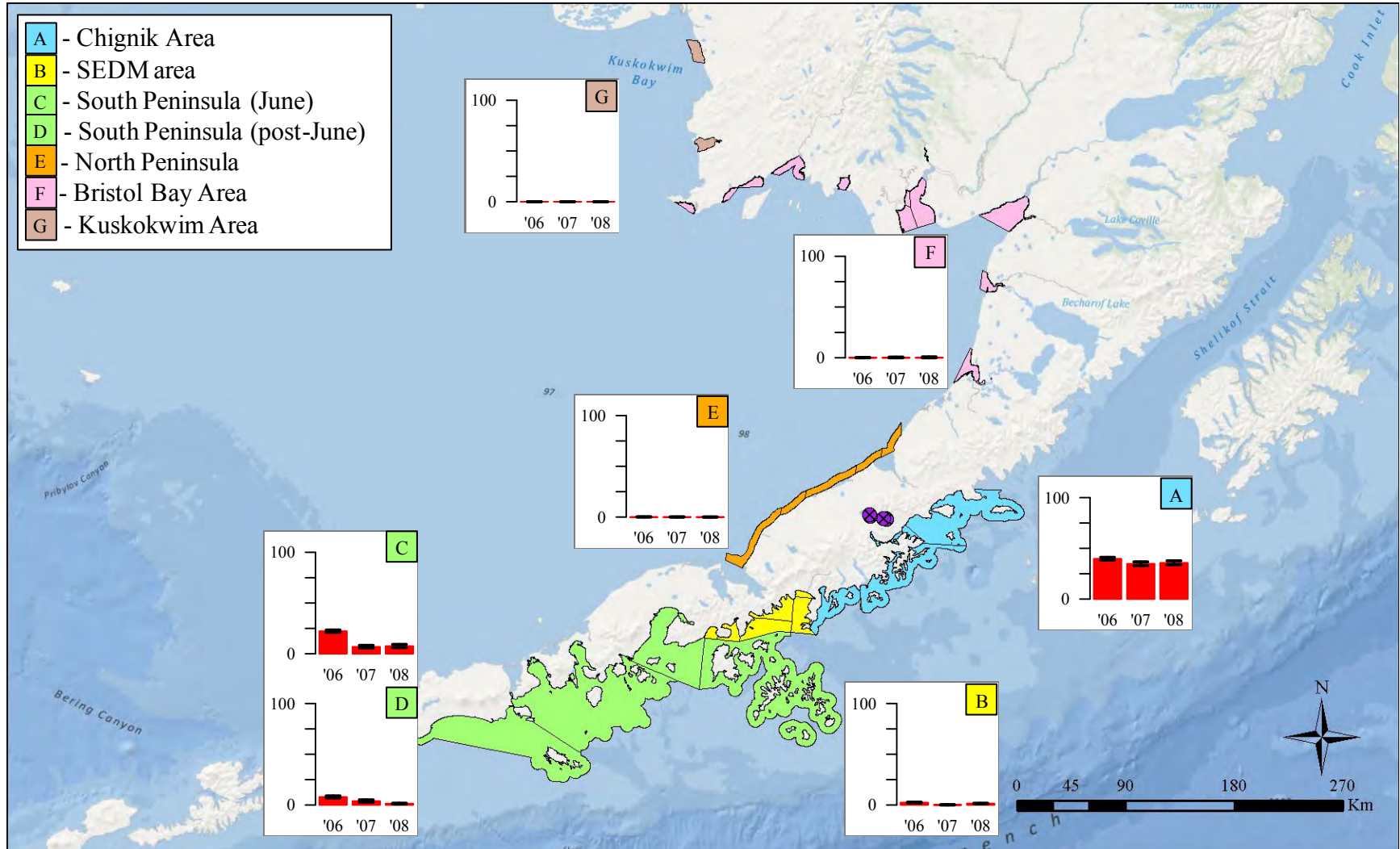
South Peninsula stock: harvest rate



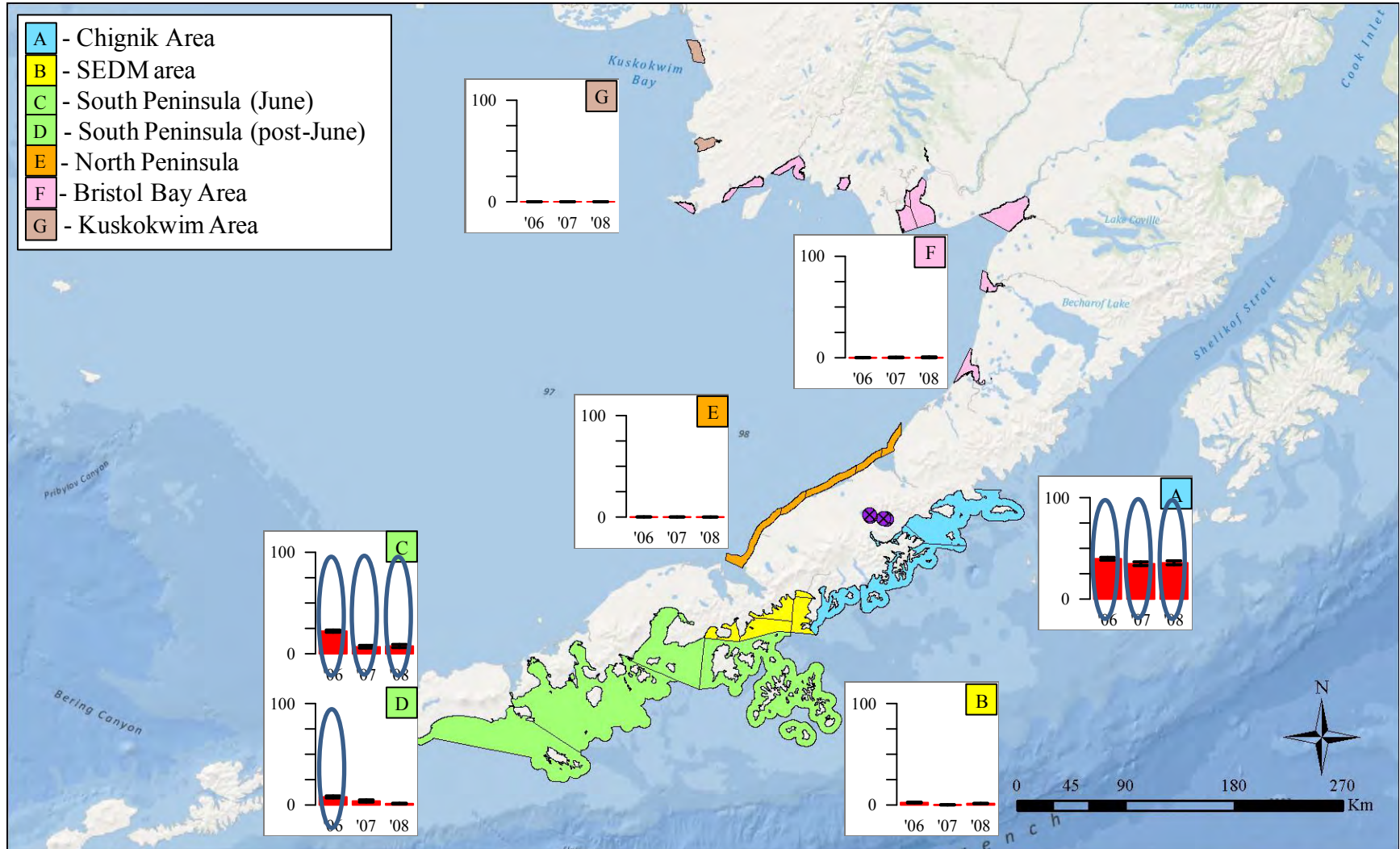
South Peninsula stock: harvest rate



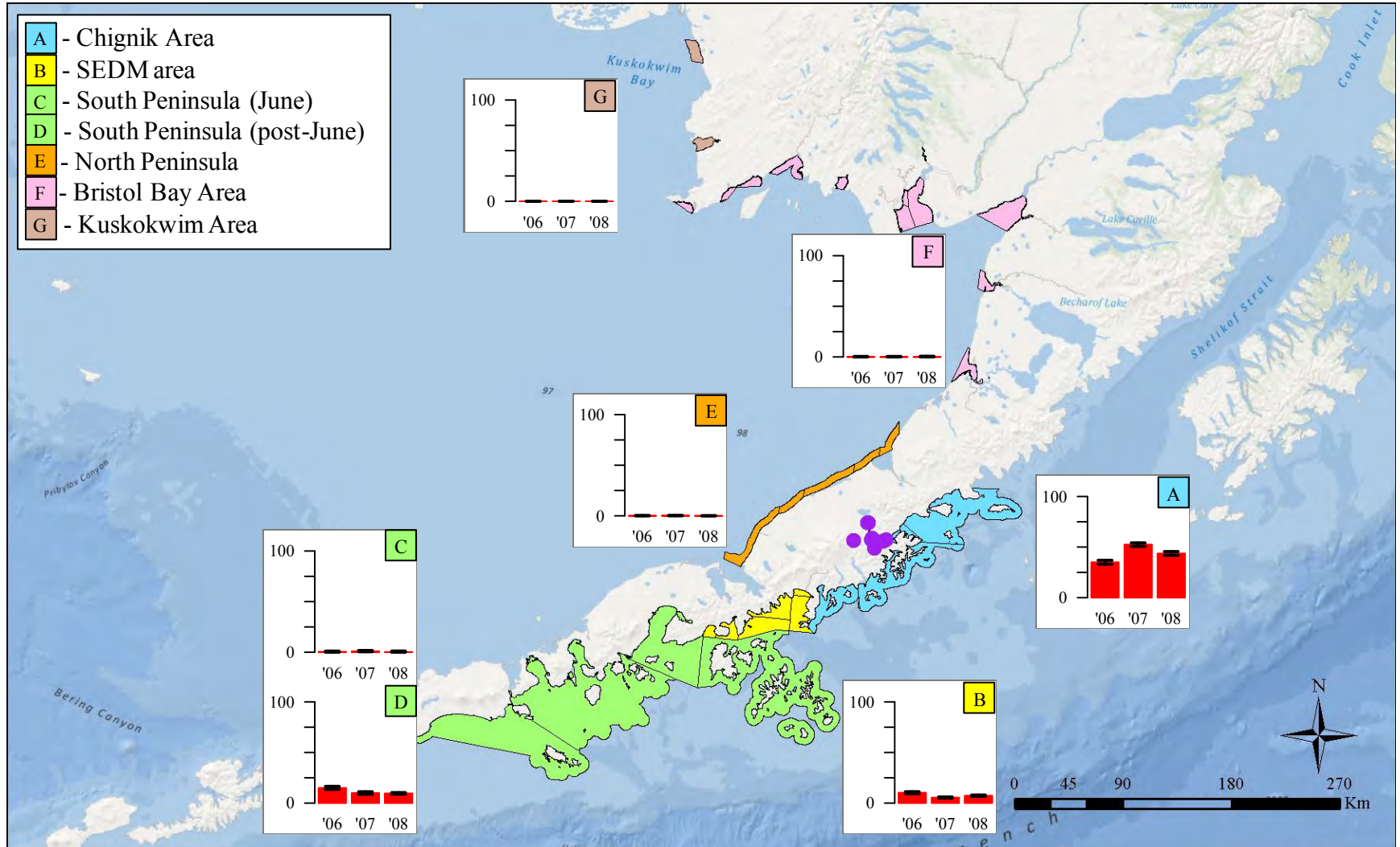
Black Lake stock (Chignik): harvest rate



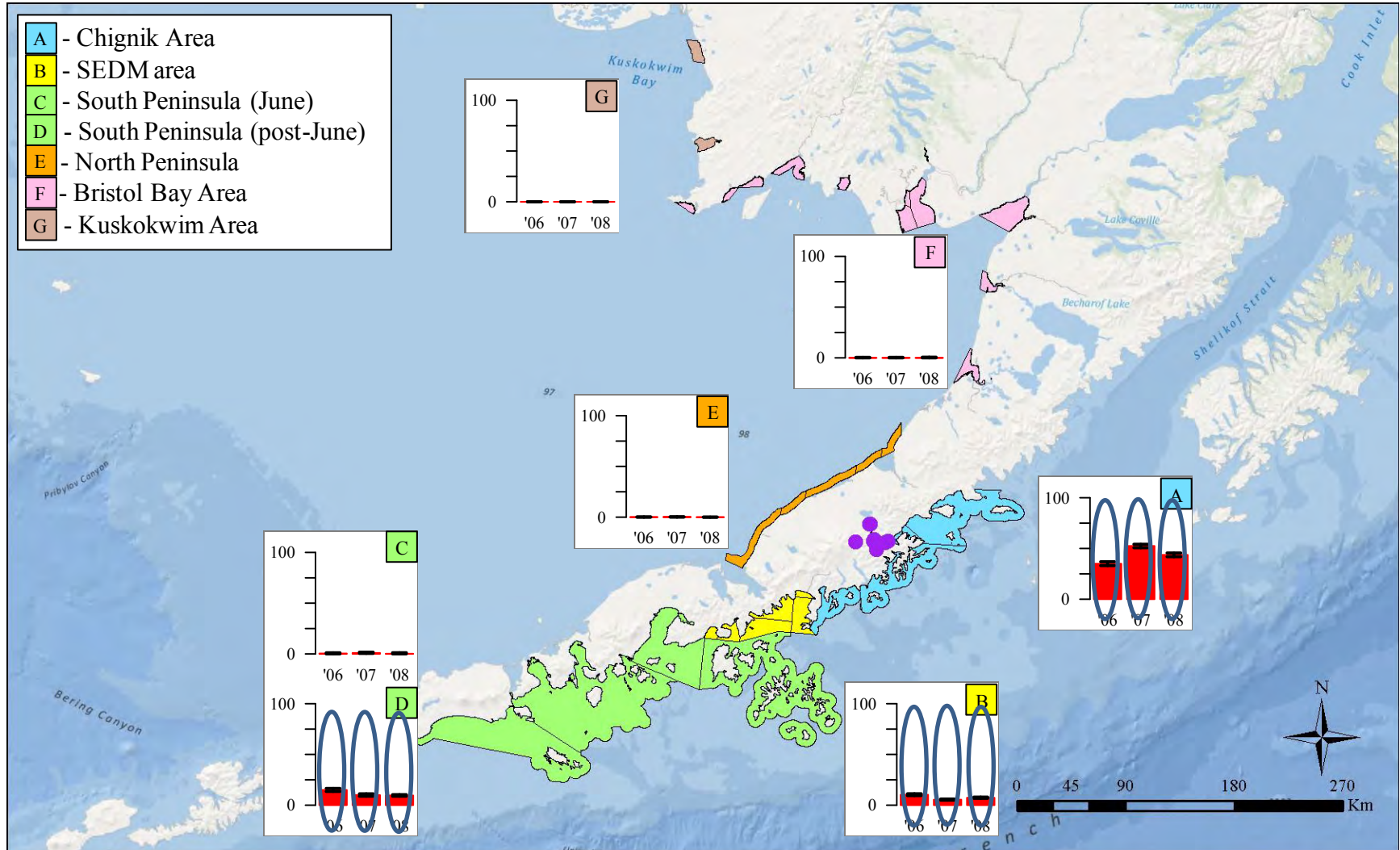
Black Lake stock (Chignik): harvest rate



Chignik Lake stock (Chignik): harvest rate



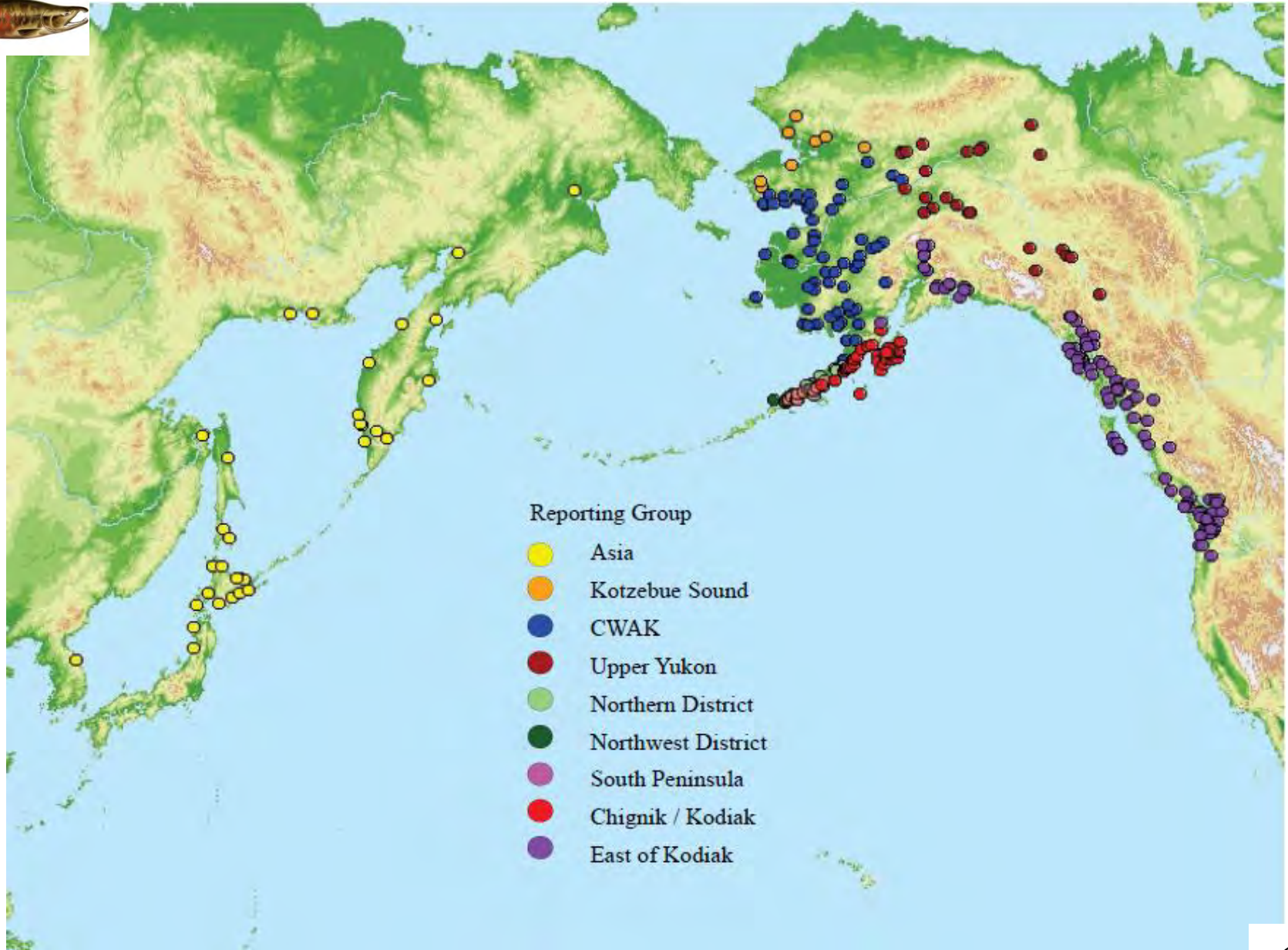
Chignik Lake stock (Chignik): harvest rate



Chum salmon results



Baseline reporting groups, chum salmon



Where to find stock definitions for chum salmon



Special Publication No. 12-26

Chum Salmon Baseline for the Western Alaska Salmon Stock Identification Program

by

Nicholas A. DeCovich,
Tyler H. Dann,
Serena D. Rogers Olive,
Heather L. Liller,
Elisabeth K.C. Fox,
James R. Jasper,
Erica L. Chenoweth,
Christopher Habicht,
and
William D. Templin

November 2012

Alaska Department of Fish and Game

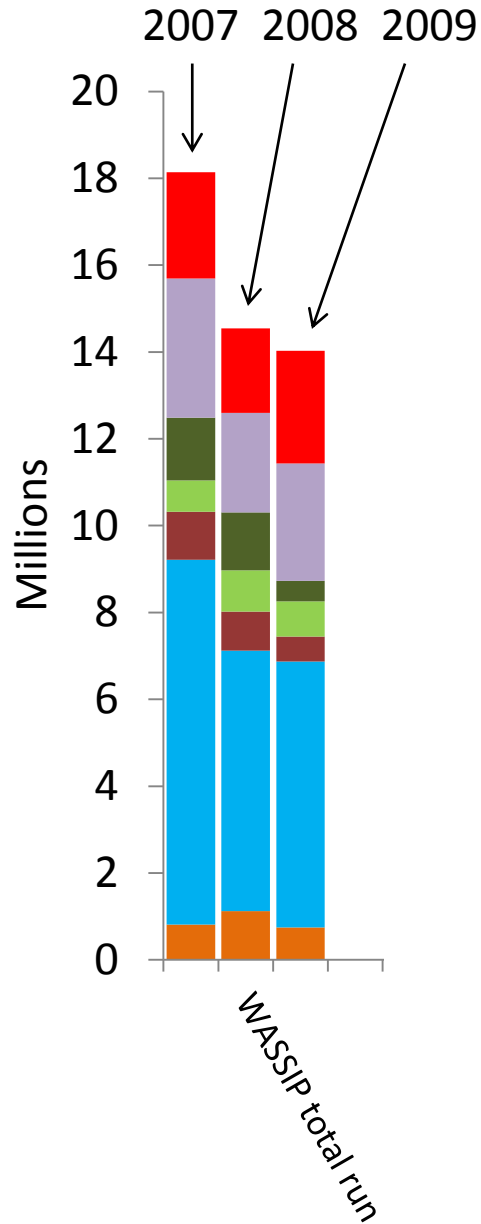
Divisions of Sport Fish and Commercial Fisheries



- SP 12-26
- Figures: 3 – 5
- Table: 1
- Order: Starts in Asia, ends in Washington



Total WASSIP area run: Chum salmon

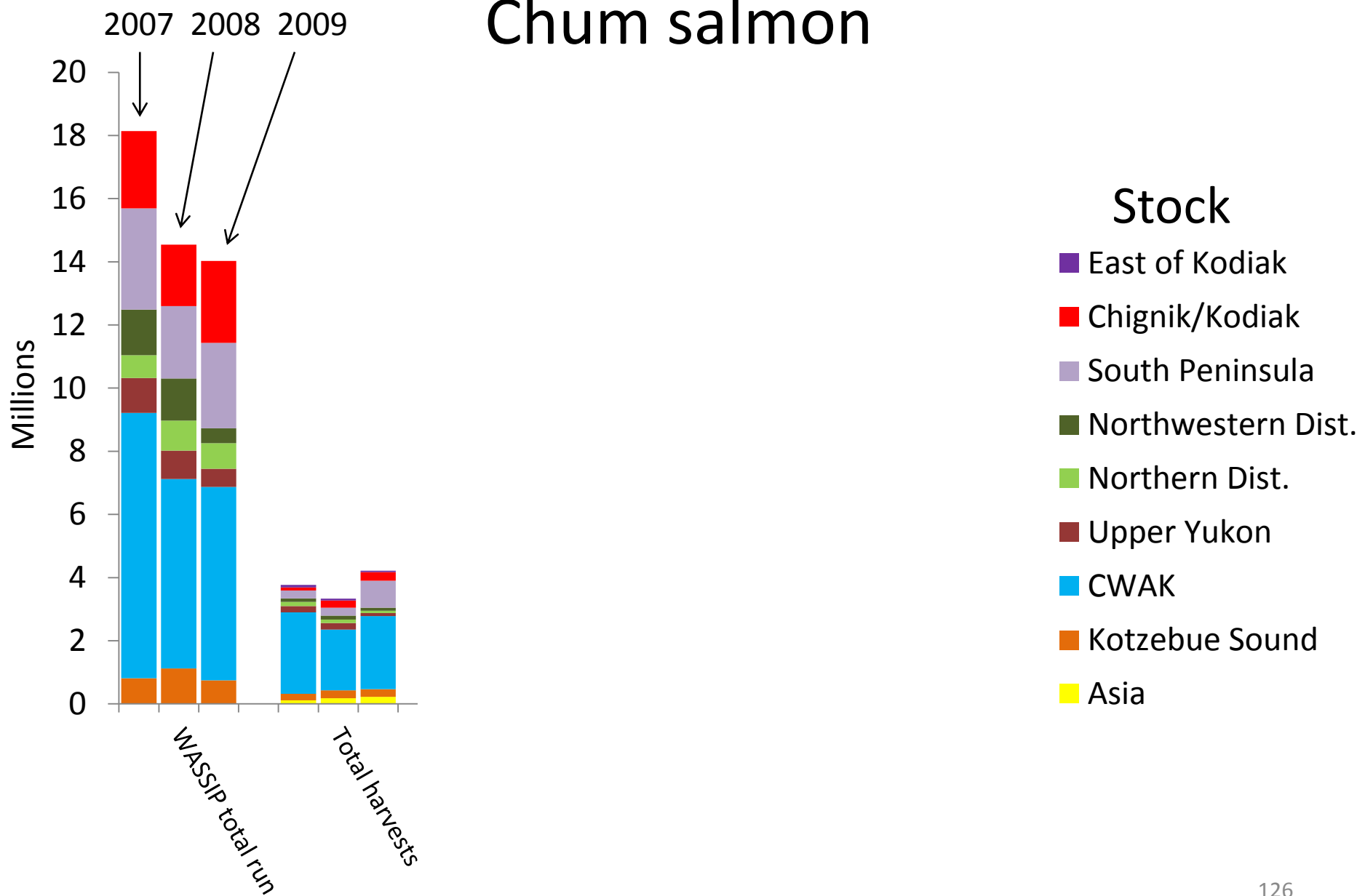


Stock

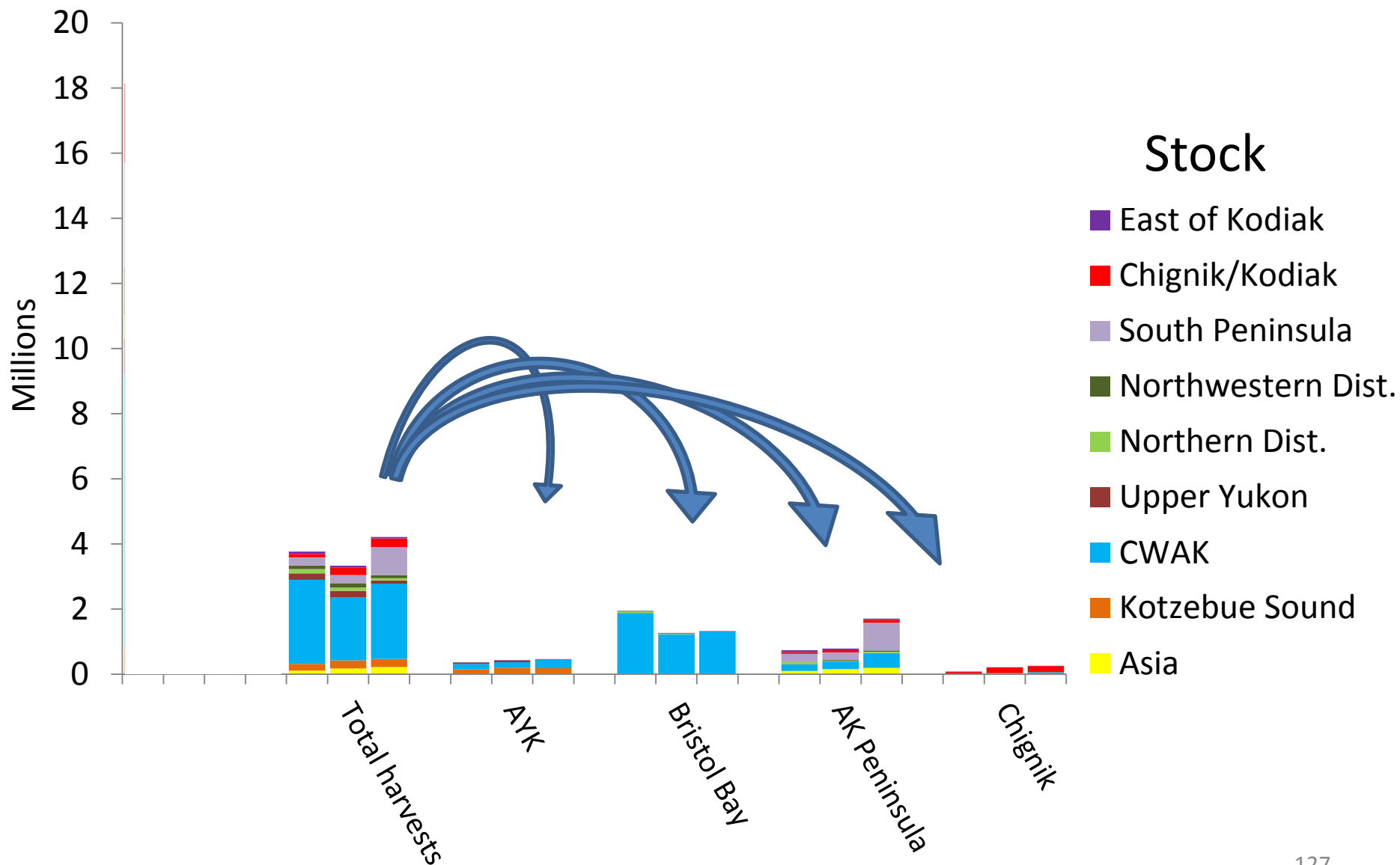
- Chignik/Kodiak
- South Peninsula
- Northwestern Dist.
- Northern Dist.
- Upper Yukon
- CWAK
- Kotzebue Sound



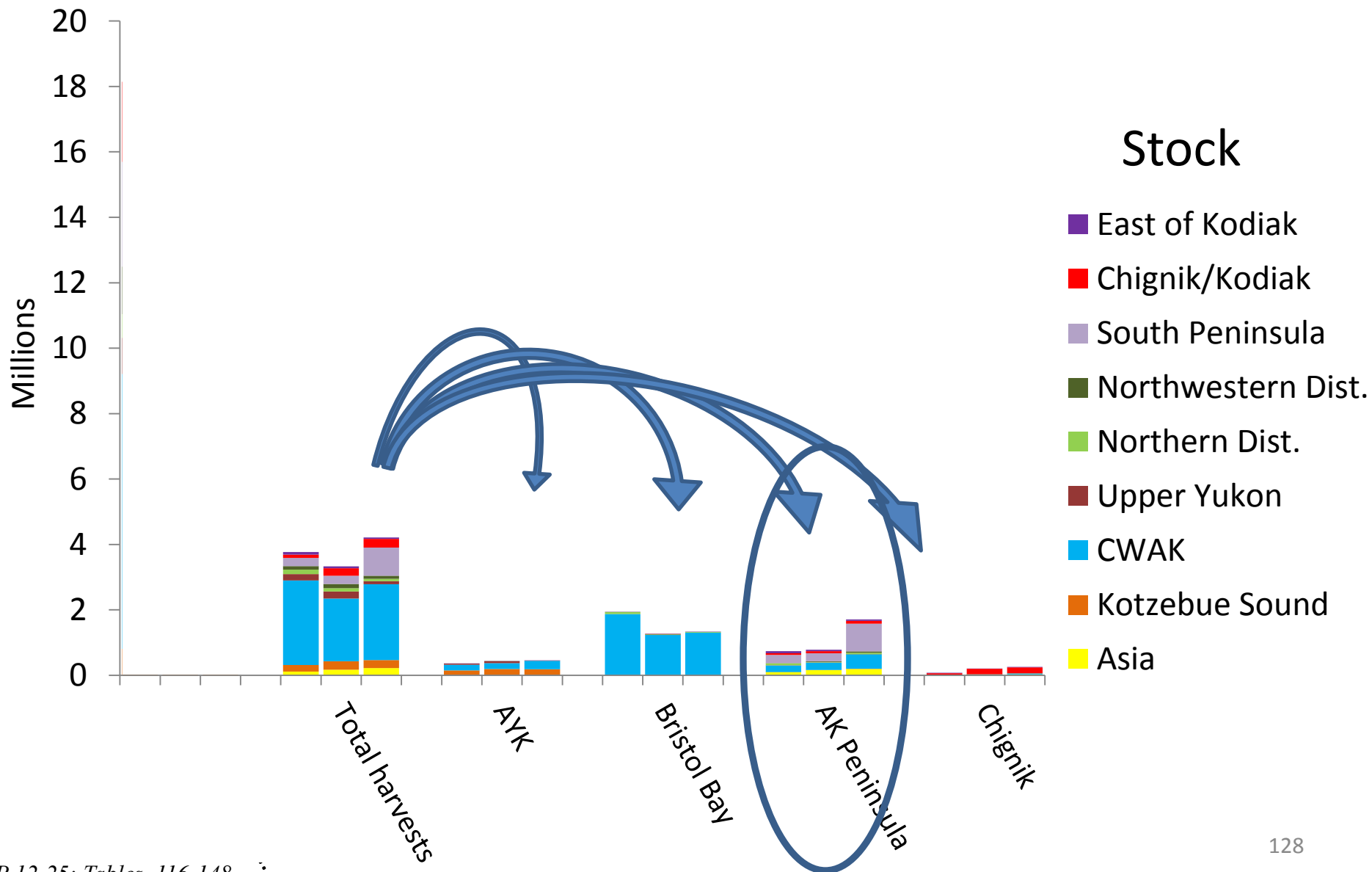
Total WASSIP area run and harvest: Chum salmon



Total WASSIP area harvest divided by area: Chum salmon



Total WASSIP area harvest divided by area: Chum salmon



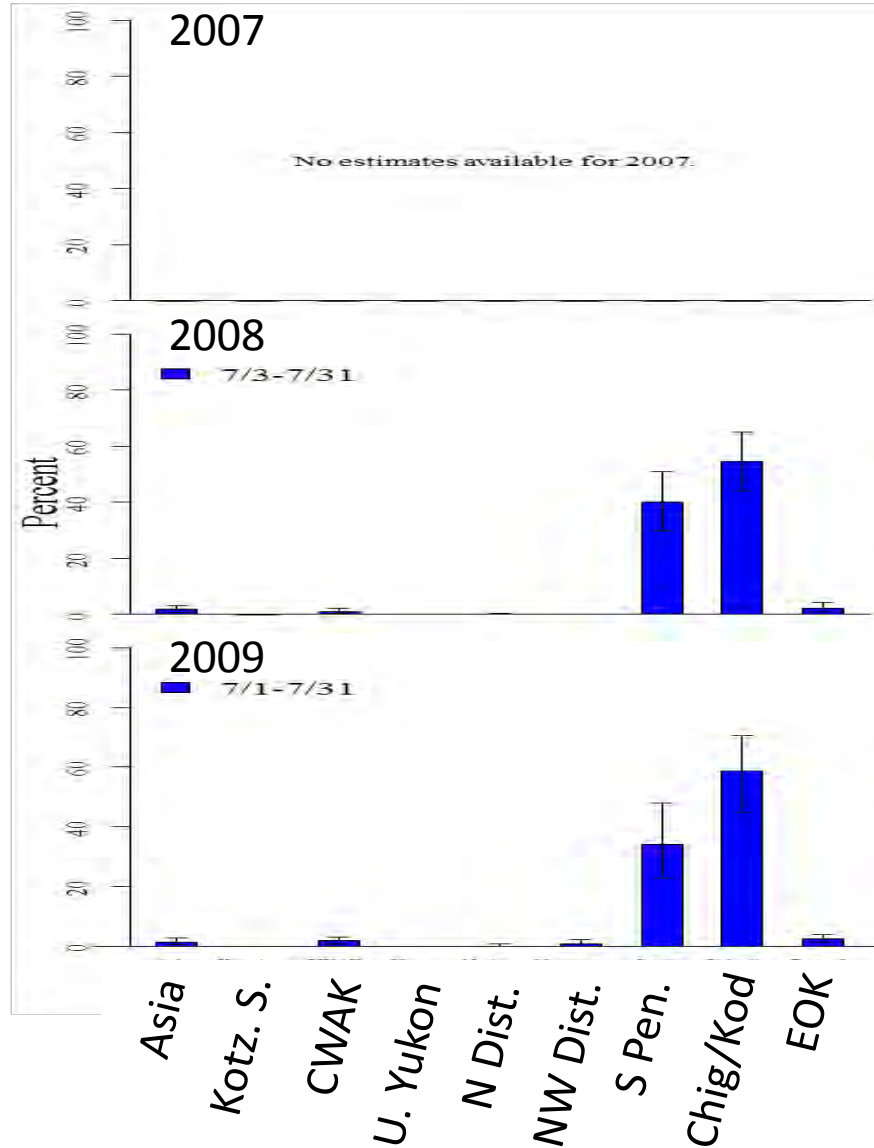


What stocks are caught in a given fishery?

Southeastern District Mainland (SEDM): stock compositions



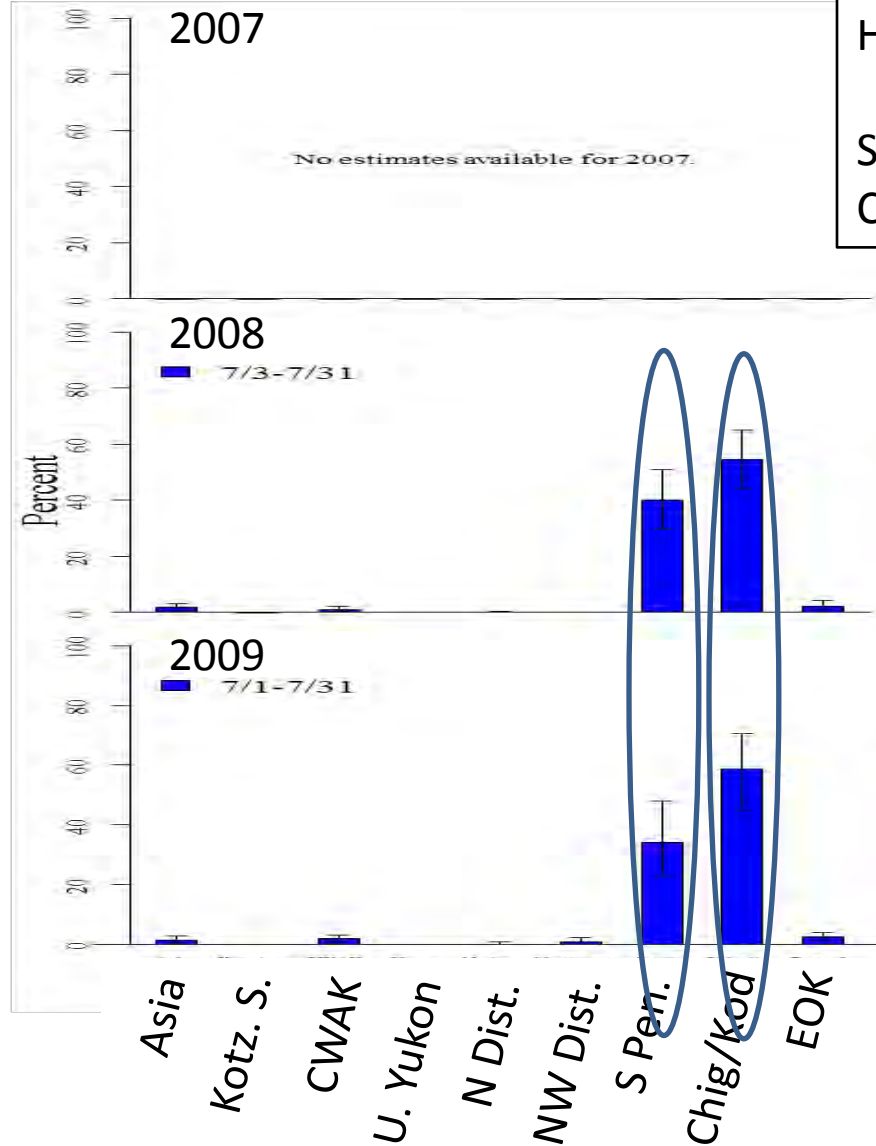
Proposal 211



Southeastern District Mainland (SEDM): stock compositions



Proposal 211



Harvest composition > 5%:
South Pen. (34 – 40%)
Chignik/Kodiak (55 – 59%)



Where to find stock composition rates for a given fishery (chum salmon)



Special Publication No. 12-23

Stock Composition of Chum Salmon Harvests in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2007-2009

by
William D. Templin,
Nicholas A. DeCovich,
Serena D. Rogers Olive,
Heather L. Liller,
Elisabeth K.C. Fox,
James R. Jasper,
Mark J. Witteveen,
Tim T. Baker,
Kathrine G. Howard,
Andrew R. Munro,
Eric C. Volk
and
Christopher Habicht

November 2012

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



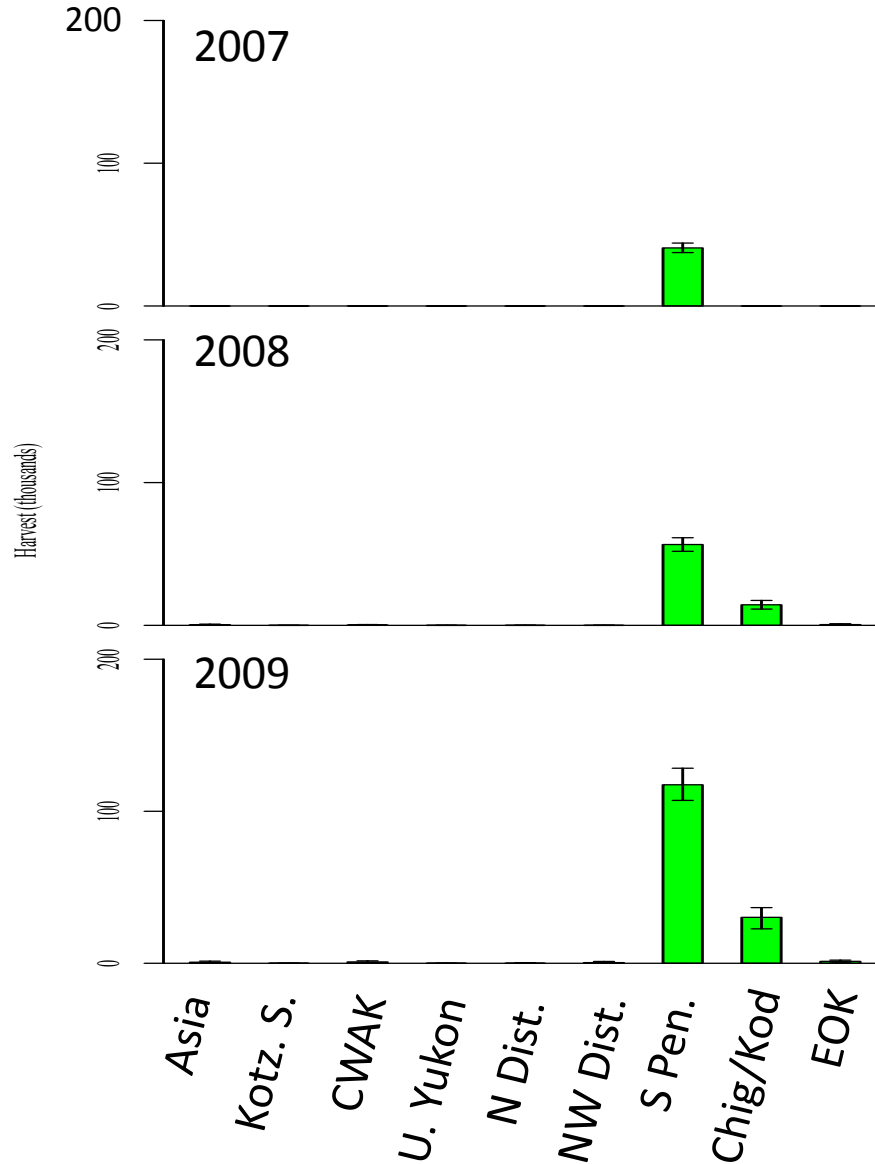
- SP 12-23
- Figures: 2 – 35
- Tables: 2 – 62
 - Tabulated data shown in figures
- Order: Starts in Chignik, ends in Kotzebue

Southeastern District Mainland (SEDM) :



Proposal 211

harvest numbers

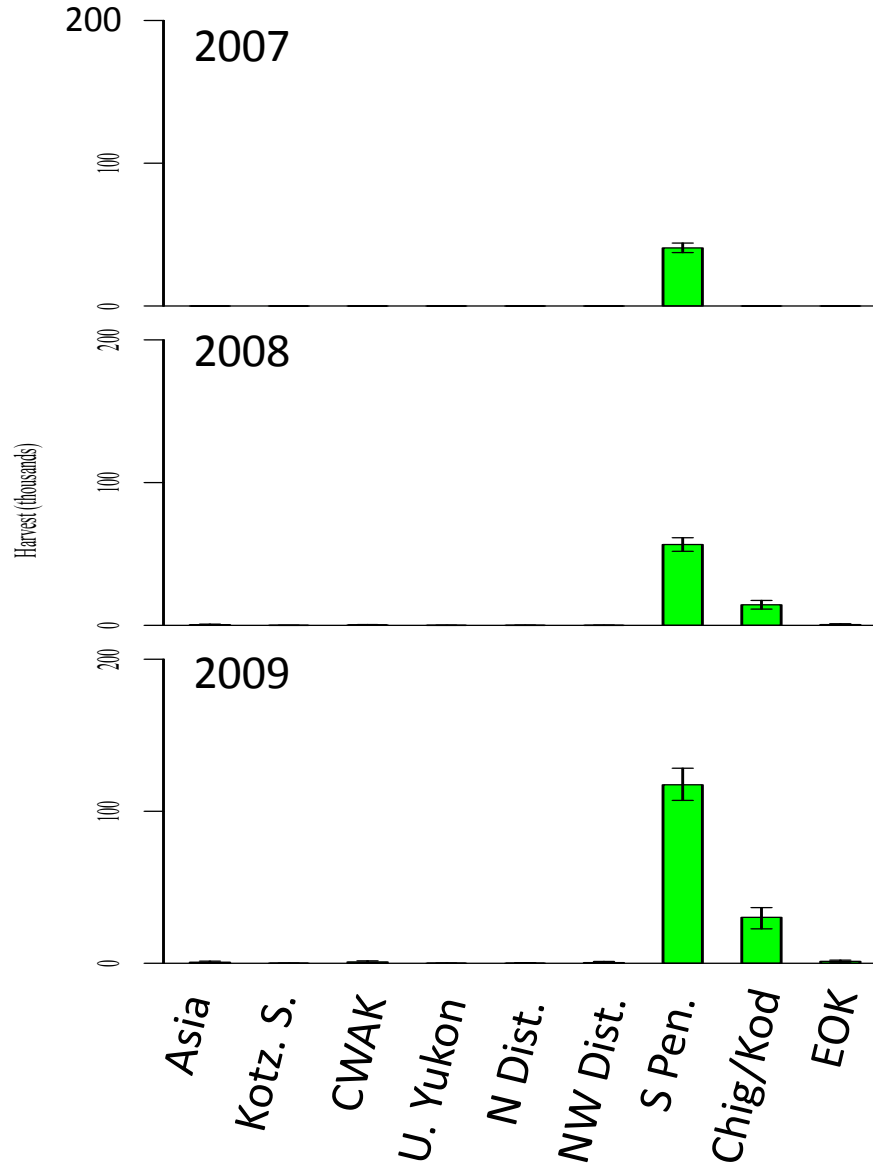


Southeastern District Mainland (SEDM) :



Proposal 211

harvest numbers



Where to find stock-specific harvest numbers for a given fishery (chum salmon)



Special Publication No. 12-25

Harvest and Harvest Rates of Chum Salmon Stocks in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2007–2009

by

Andrew R. Munro,
Christopher Habicht,
Tyler H. Dann,
Douglas M. Eggers,
William D. Templin,
Mark J. Witteveen,
Timothy T. Baker,
Kathrine G. Howard,
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November 2012

Alaska Department of Fish and Game Division of Sport Fish and Commercial Fisheries

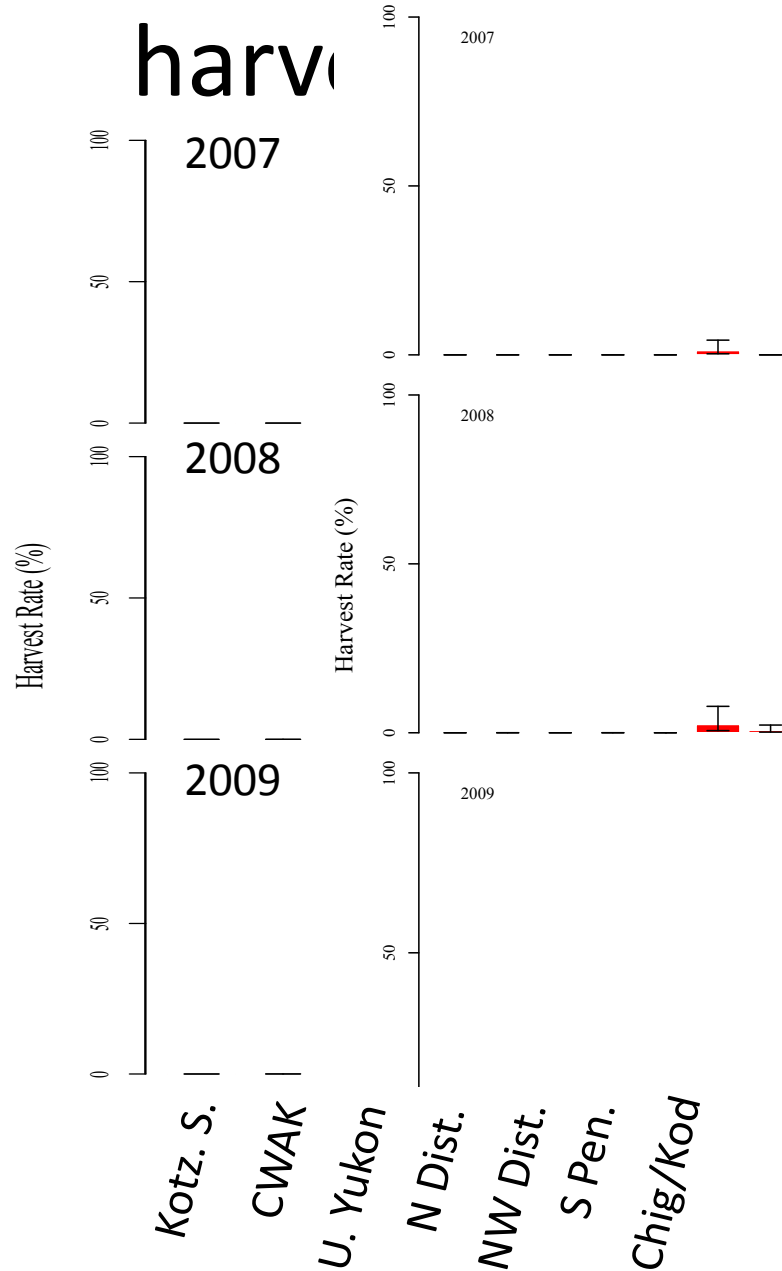


- SP 12-25
- Figures: 3 – 39
- Appendices: C1 - C266
 - Tabulated data shown in figures
- Order: Starts in Chignik, ends in Kotzebue

Southeastern District Mainland (SEDM):



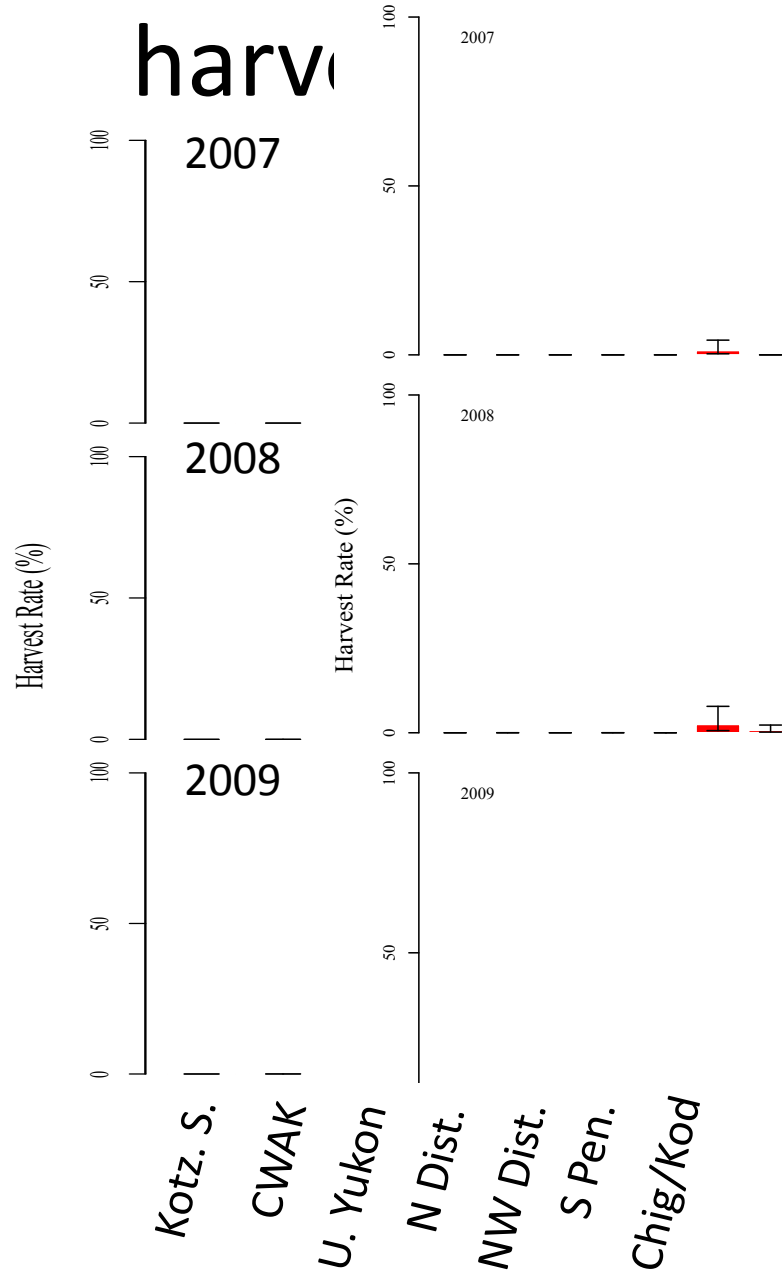
Proposal 211



Southeastern District Mainland (SEDM):



Proposal 211



Where to find stock-specific harvest rates for a given fishery (chum salmon)



Special Publication No. 12-25

Harvest and Harvest Rates of Chum Salmon Stocks in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2007–2009

by

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November 2012

Alaska Department of Fish and Game Division of Sport Fish and Commercial Fisheries

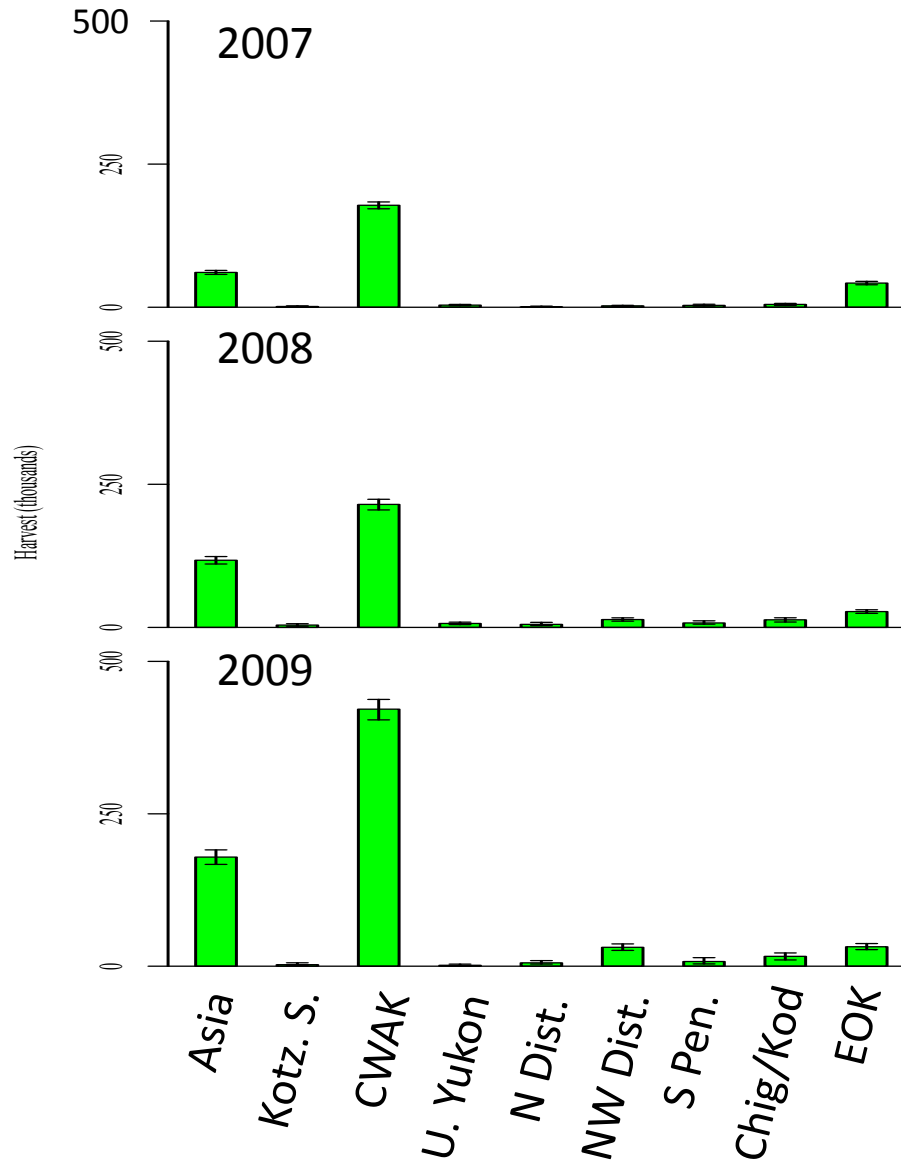


- SP 12-25
- Figures: 40 – 76
- Tables: 7 – 148
 - Tabulated data shown in figures
- Order: Starts in Chignik, ends in Kotzebue

South Peninsula (June): harvest numbers



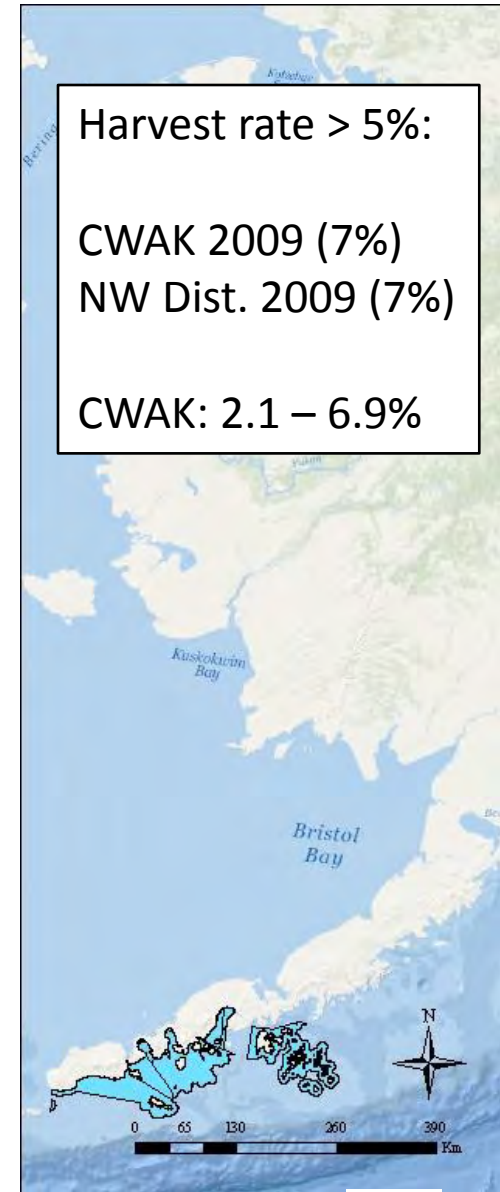
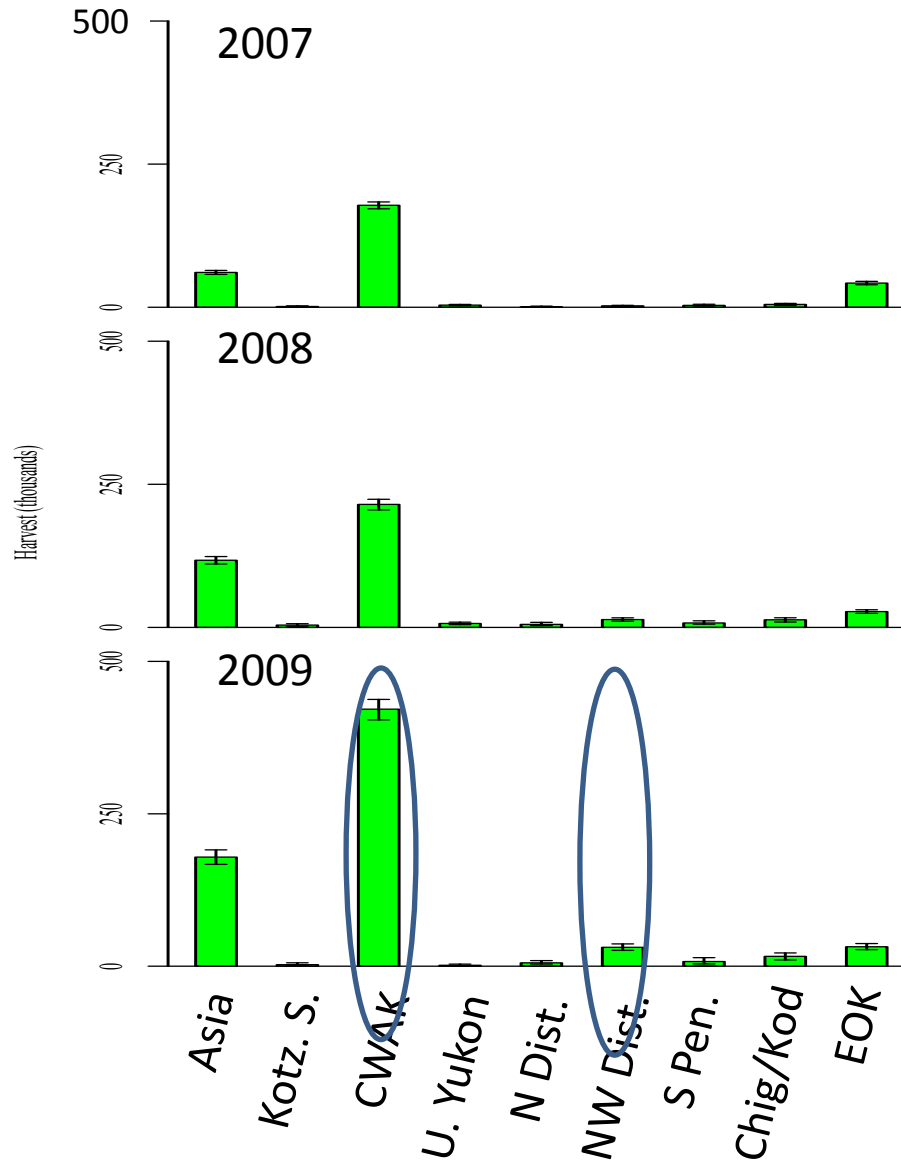
Proposals 179,
180, 181, 183,
210, 211



South Peninsula (June): harvest numbers



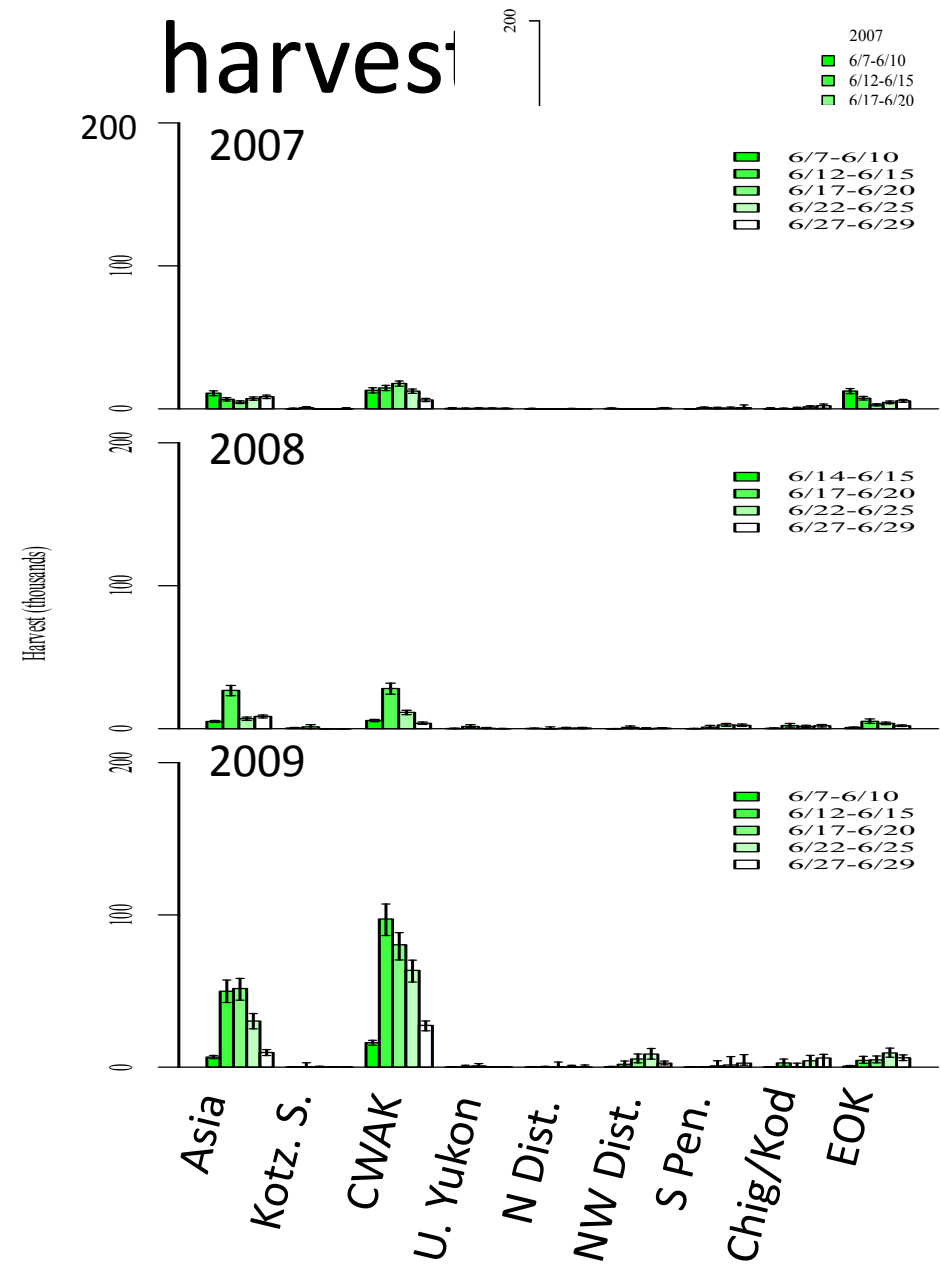
Proposals 179,
180, 181, 183,
210, 211



Shumagin Islands Section (June):



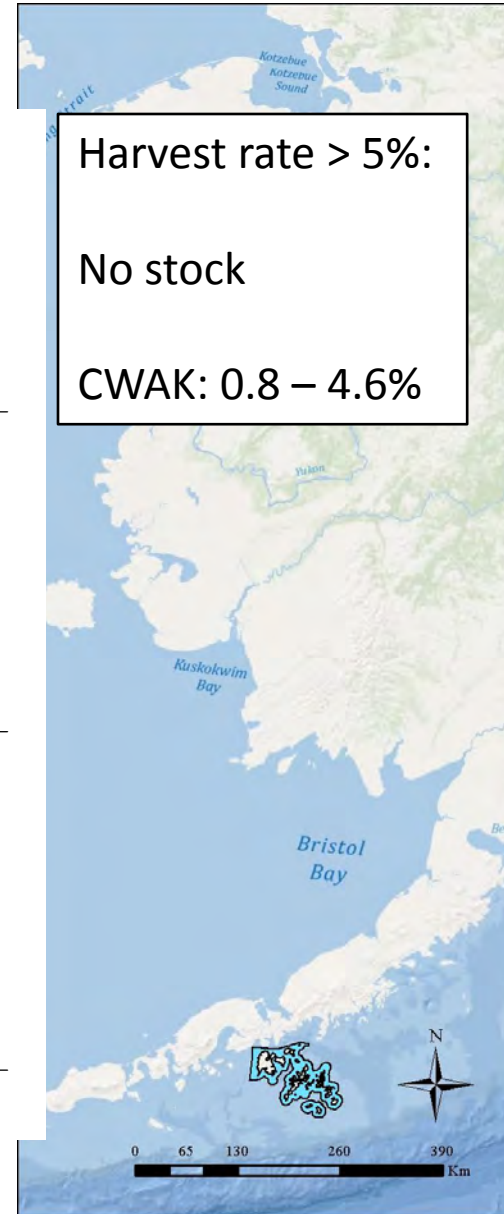
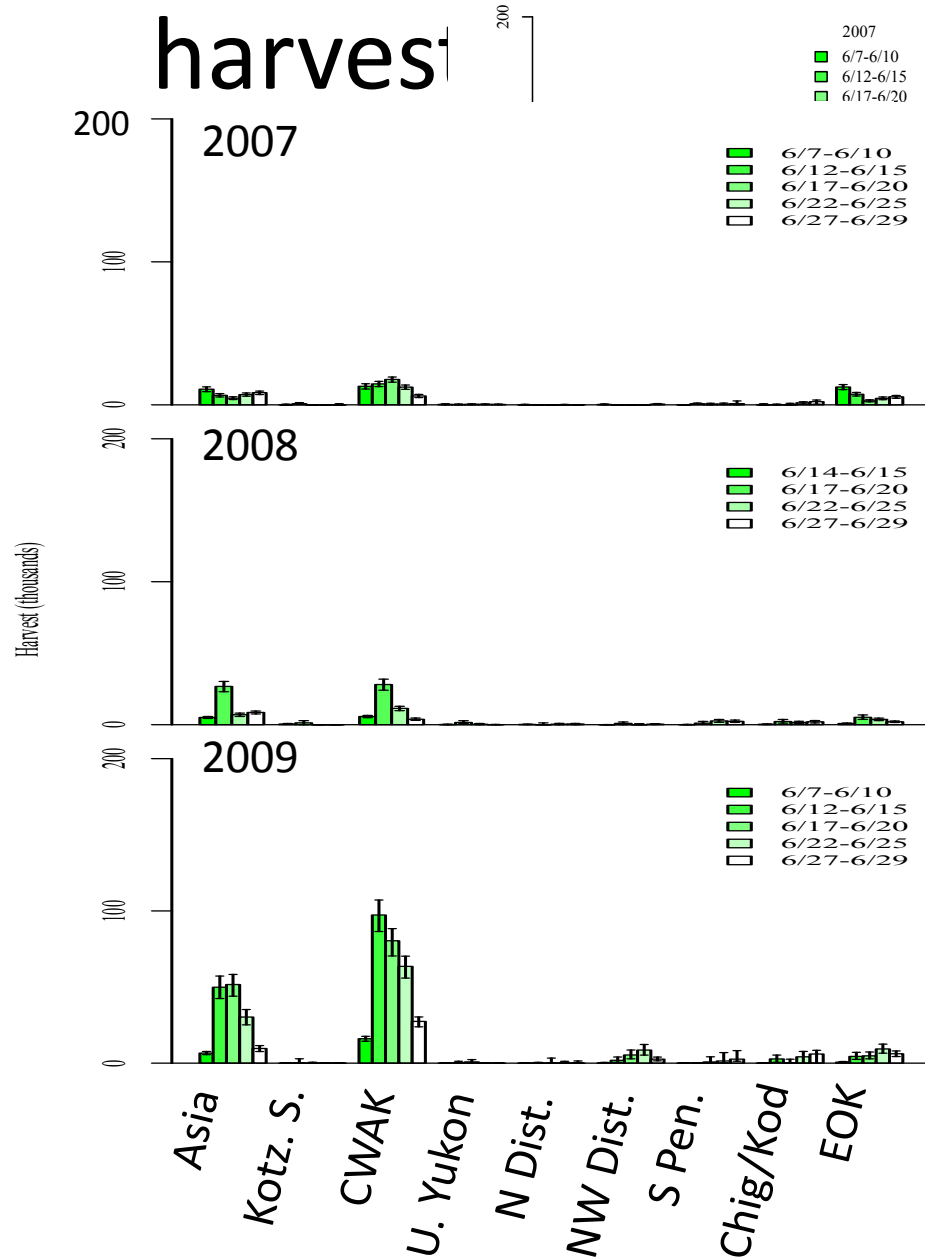
Proposals 179,
180, 181, 183,
210, 211



Shumagin Islands Section (June):



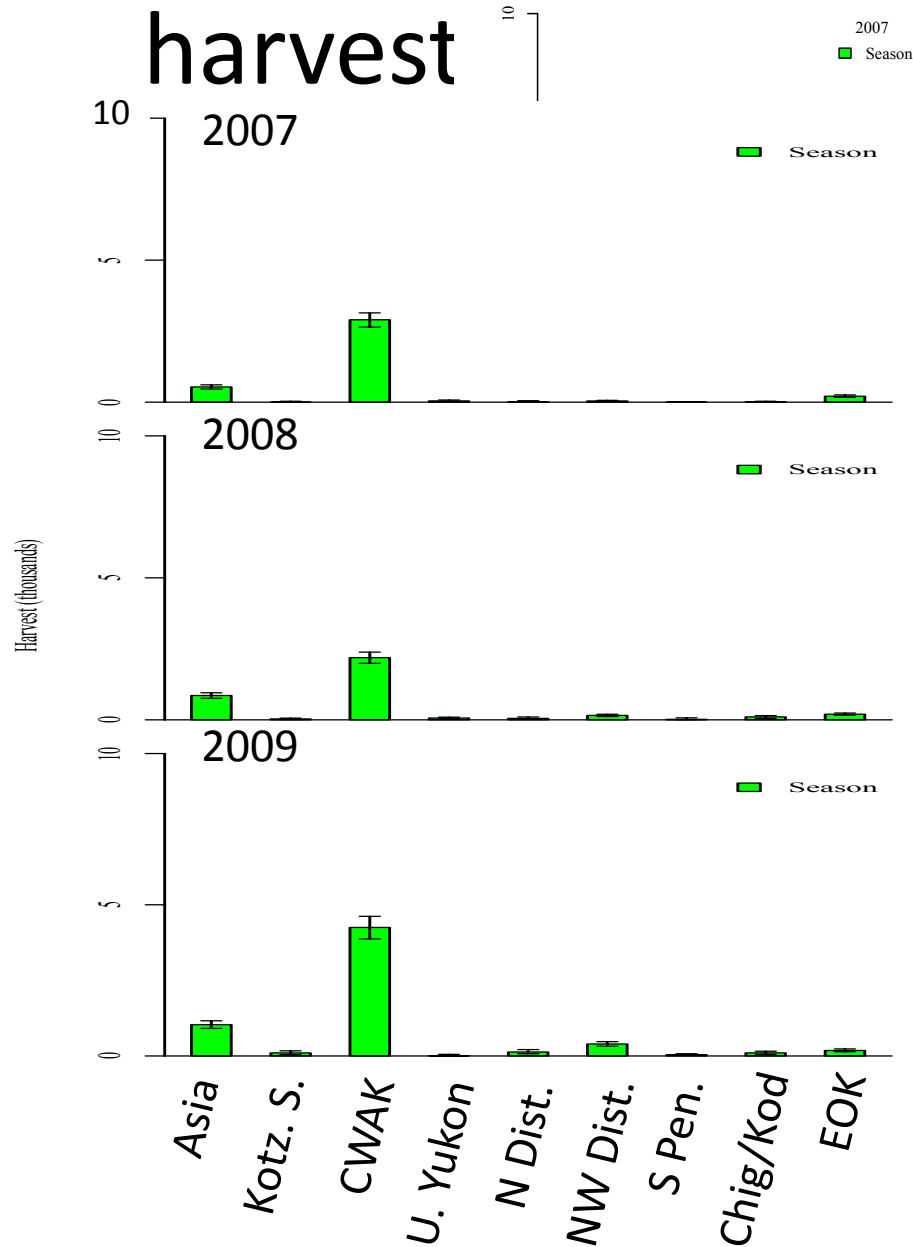
Proposals 179,
180, 181, 183,
210, 211



Dolgoi Island area (June):



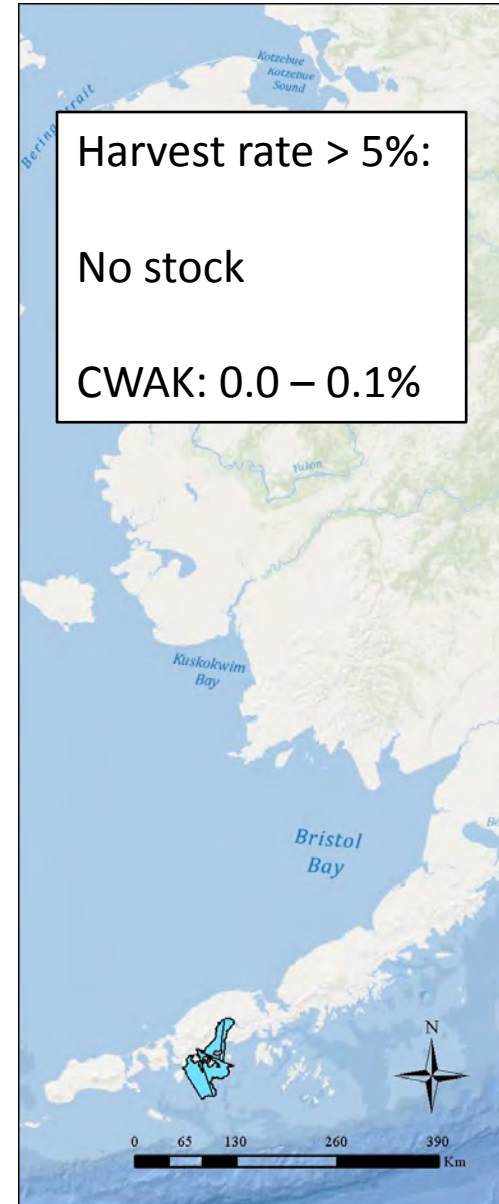
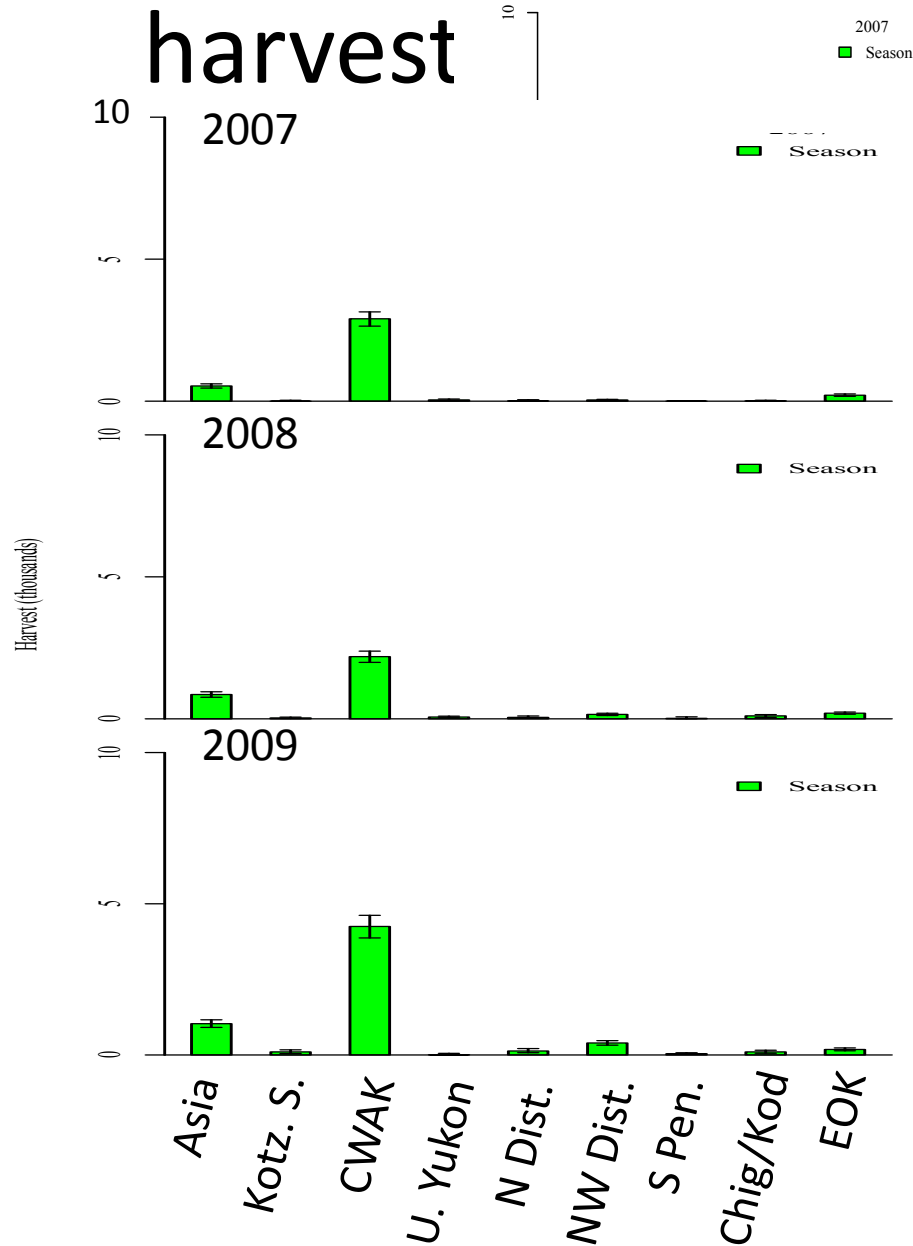
Proposals 183,
211



Dolgoi Island area (June):



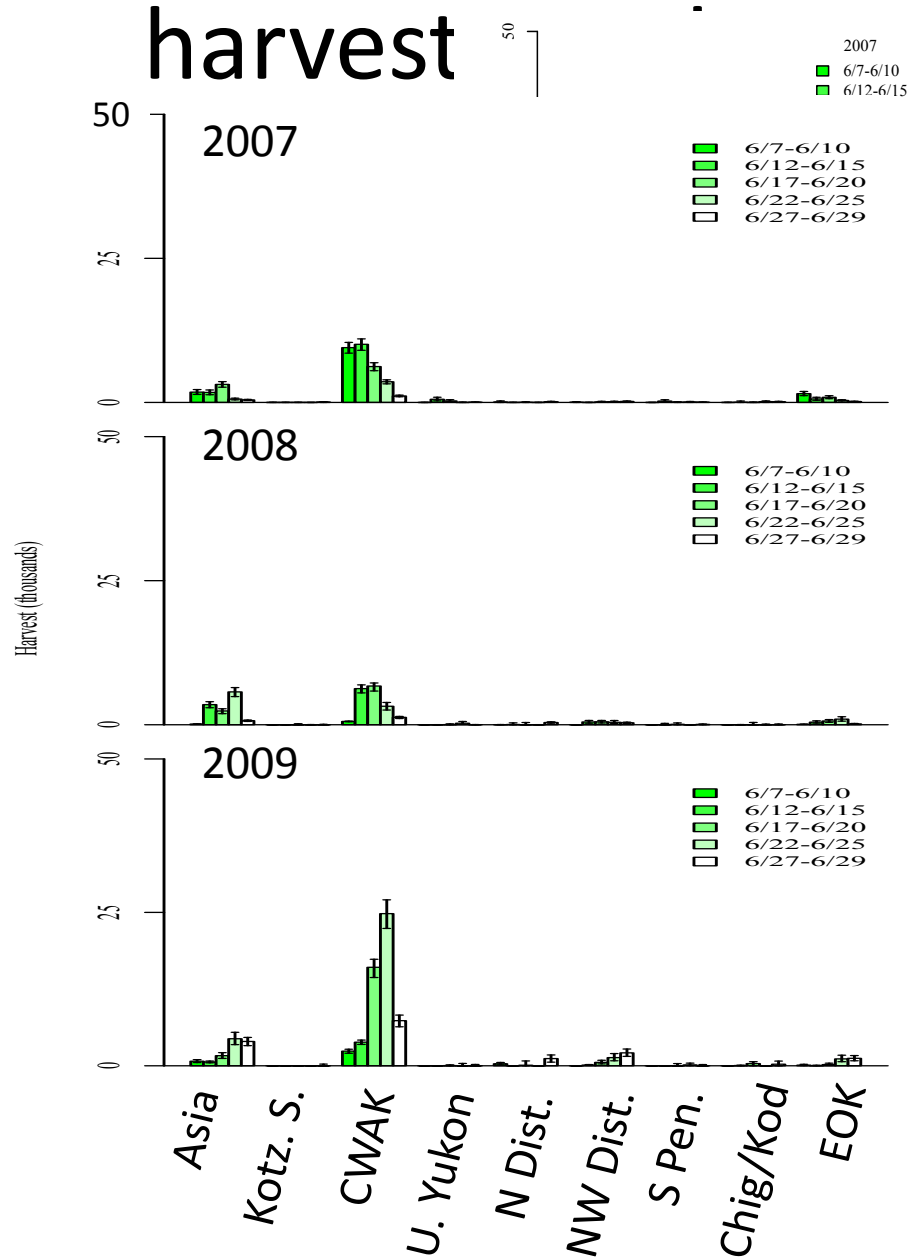
Proposals 183,
211



Ikatan area (June): harvest



Proposals 183,
211

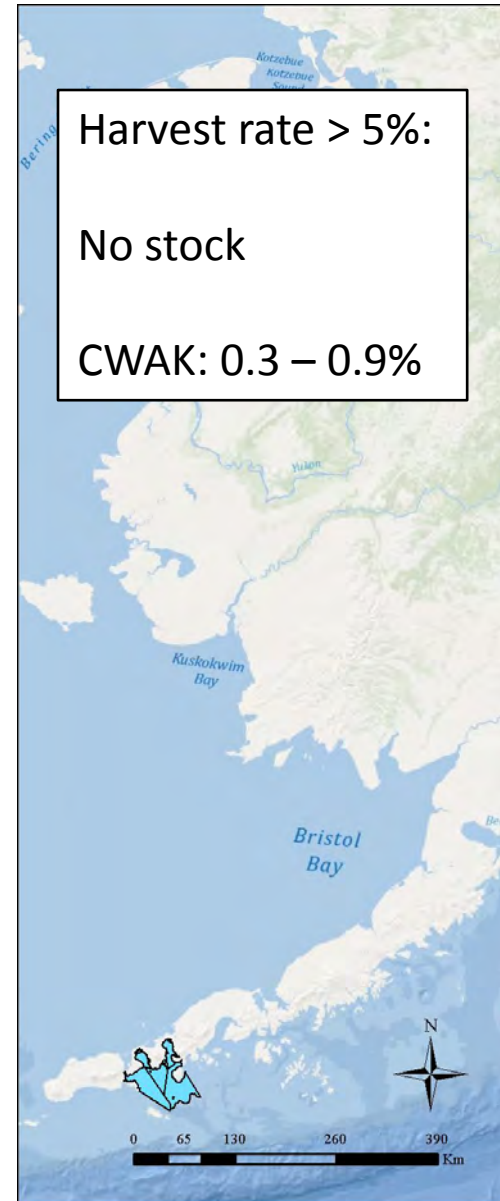
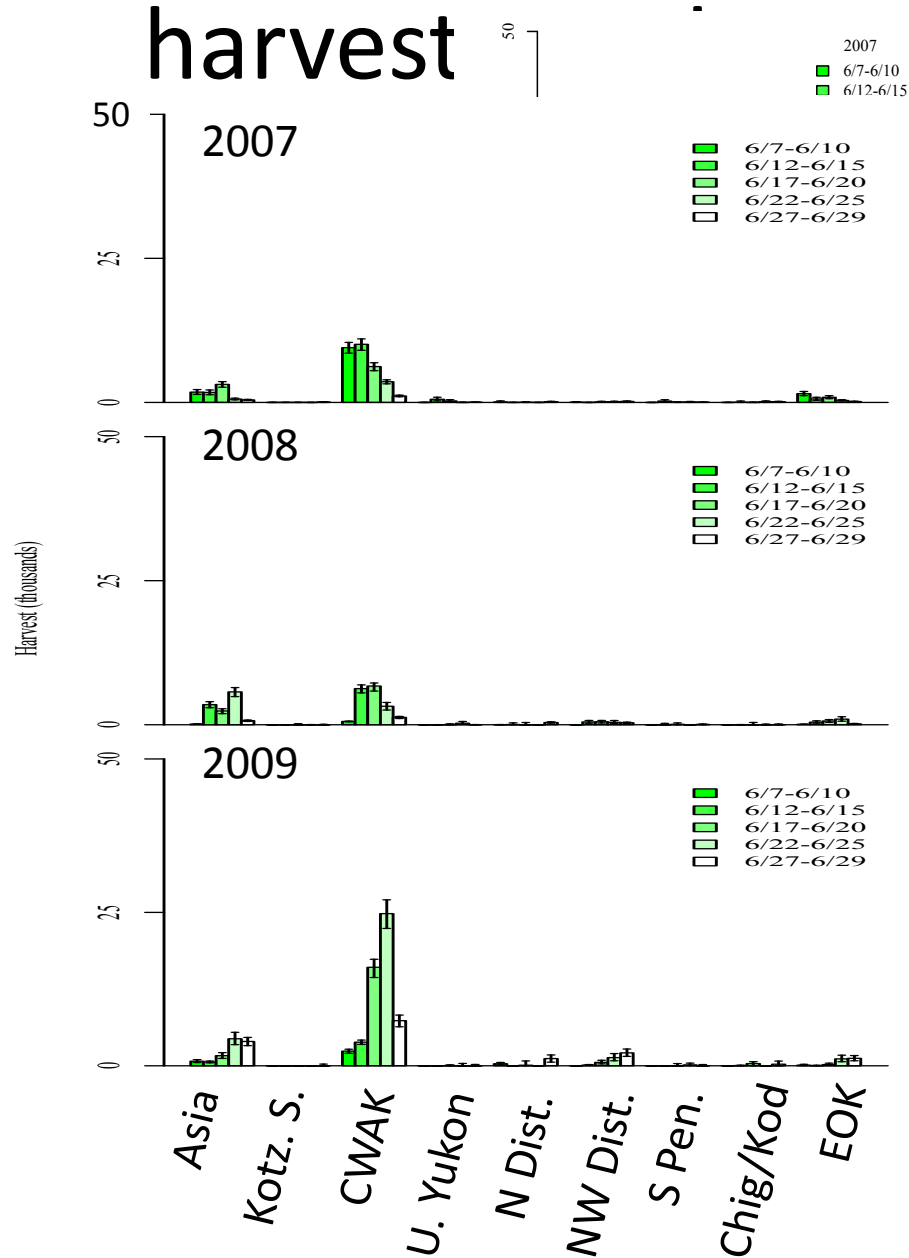


Ikatan area (June):

harvest



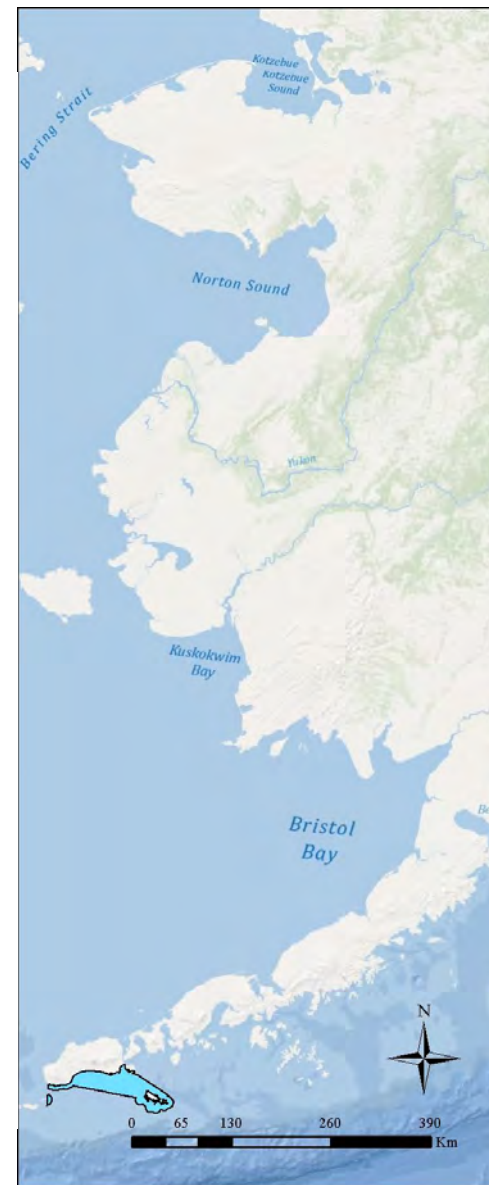
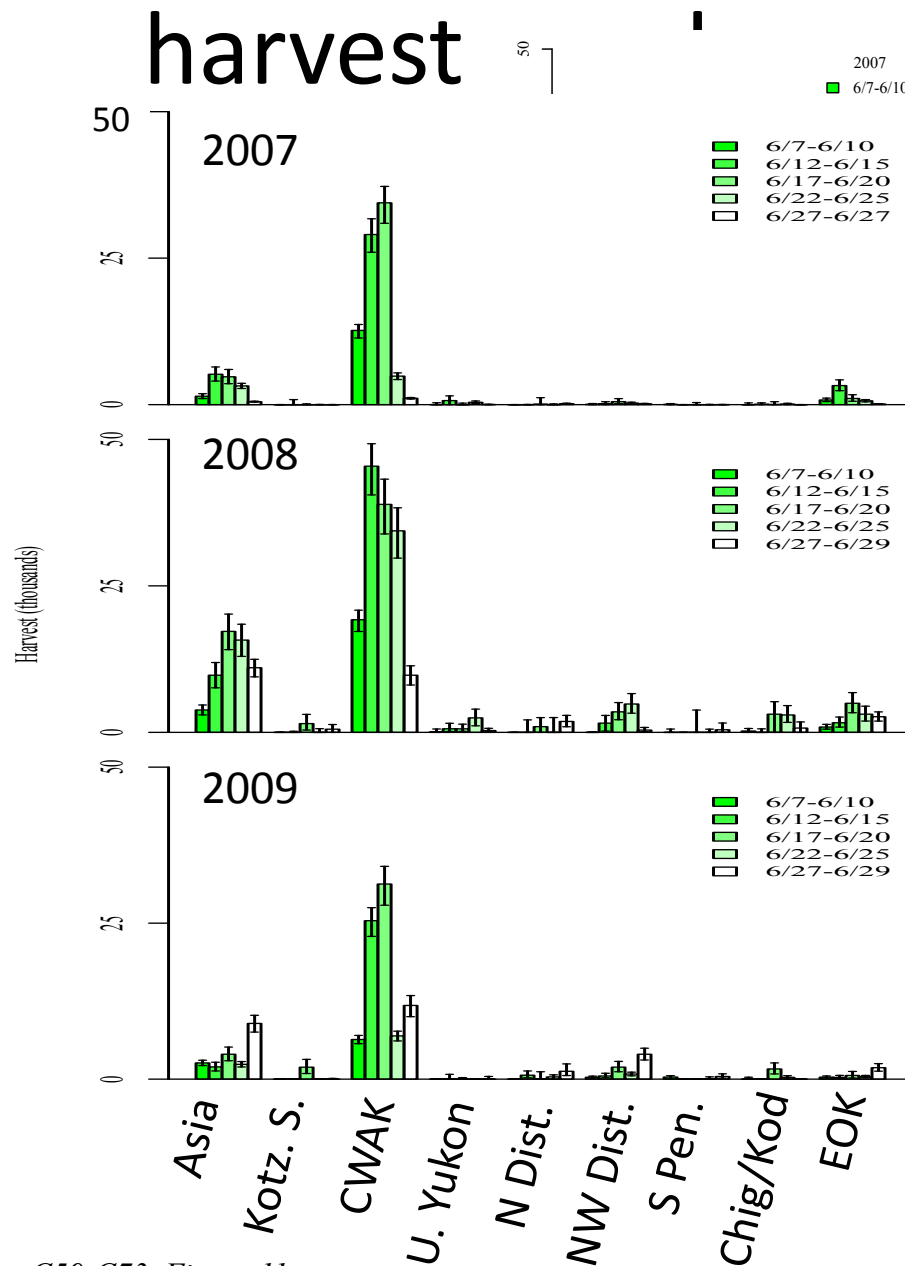
Proposals 183,
211



Unimak District (June):



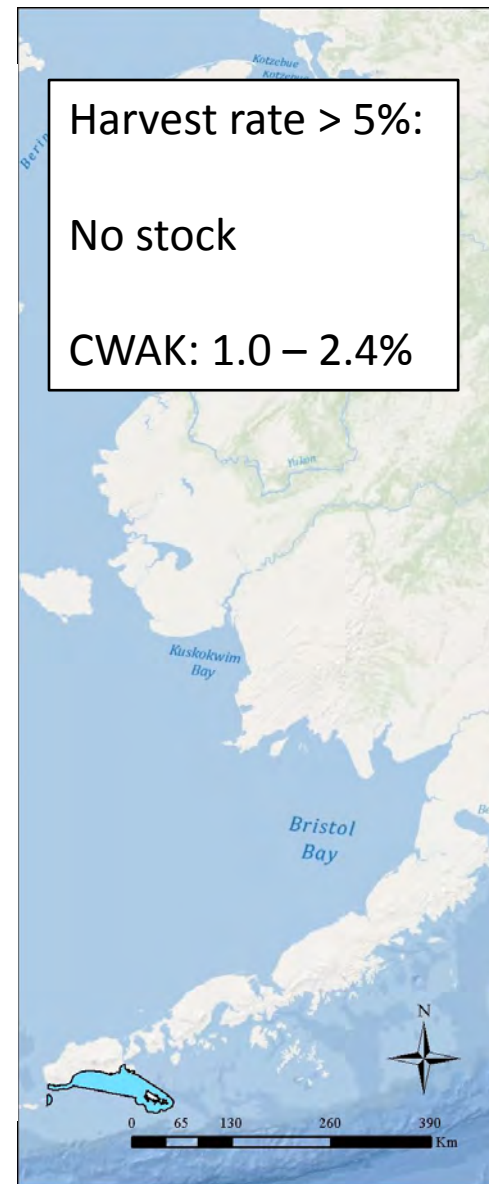
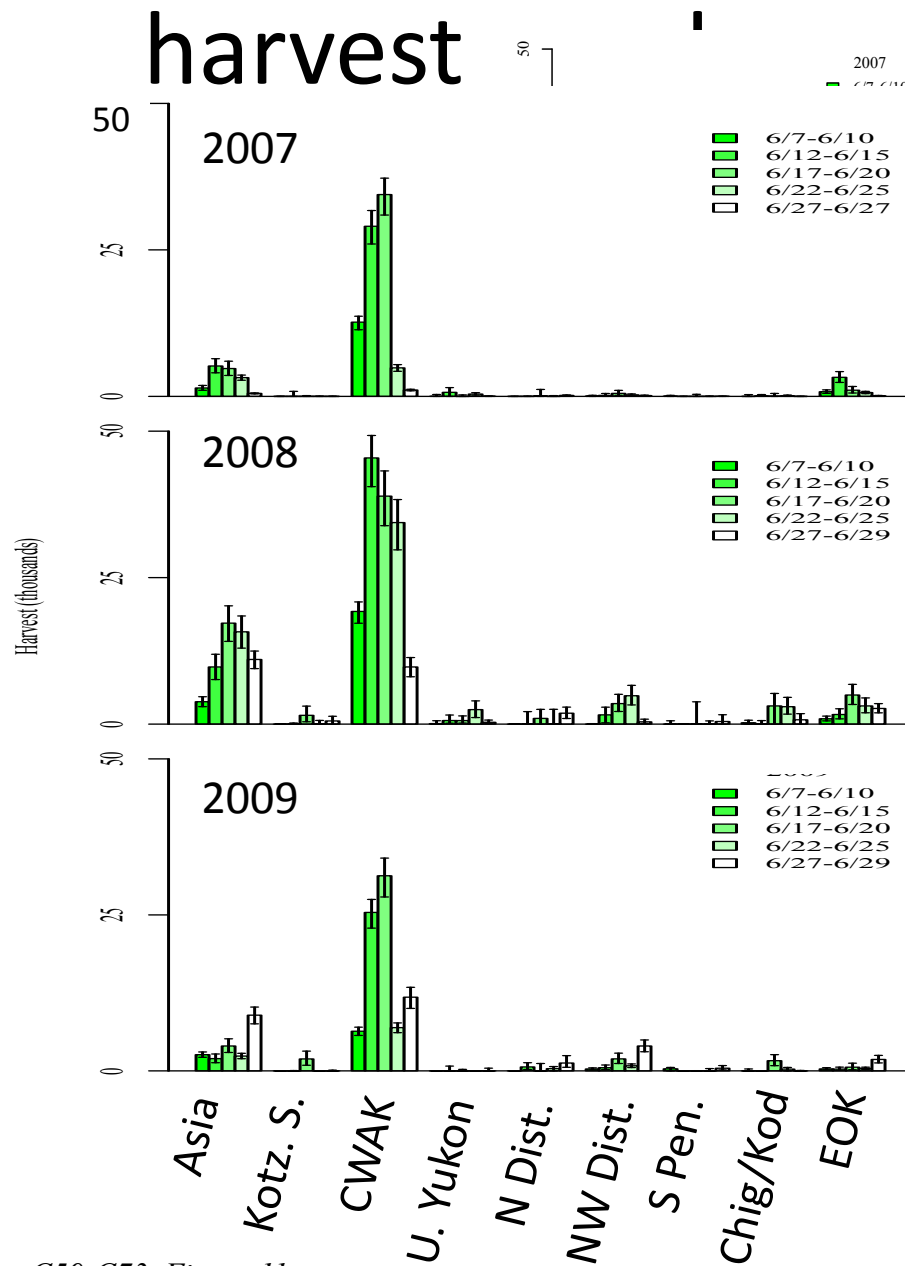
Proposals 179,
180, 181, 183,
210, 211



Unimak District (June):



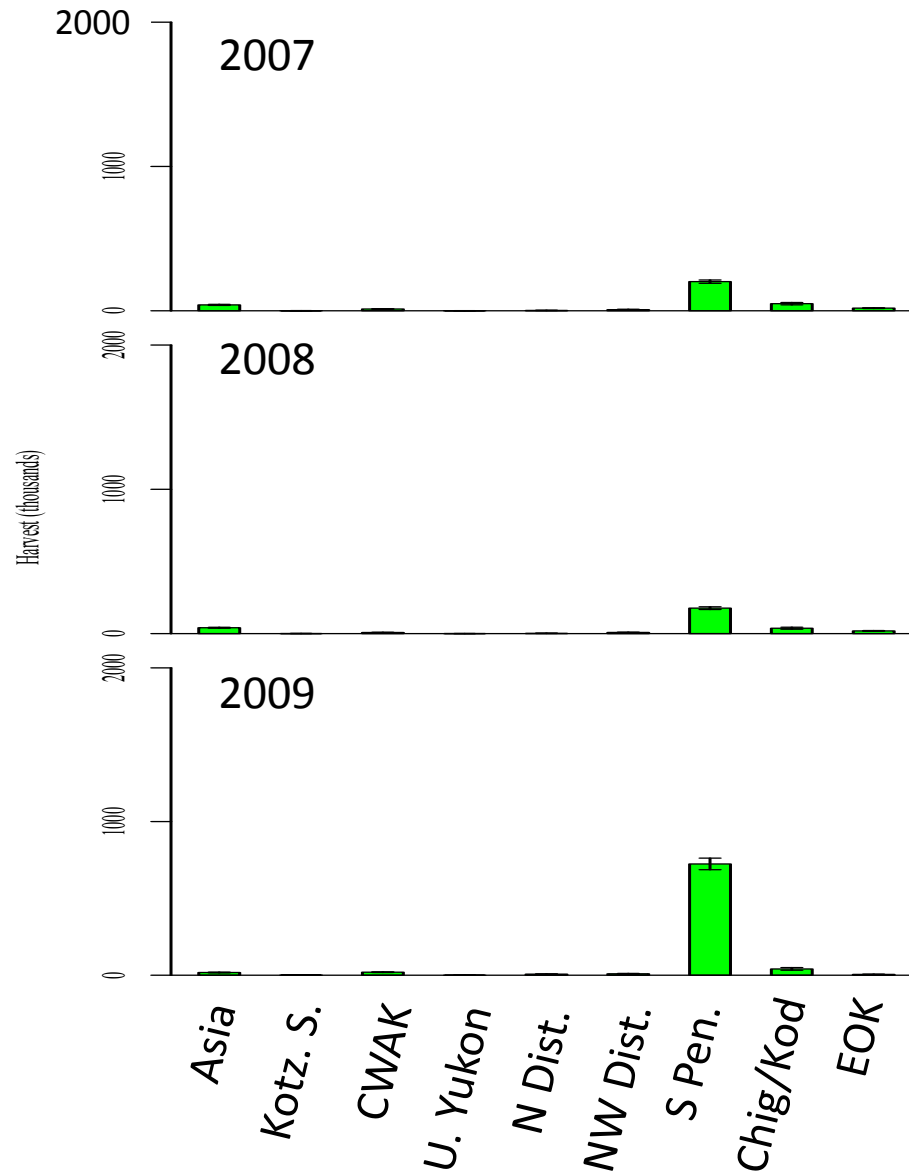
Proposals 179,
180, 181, 183,
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South Peninsula (post-June) : harvest numbers



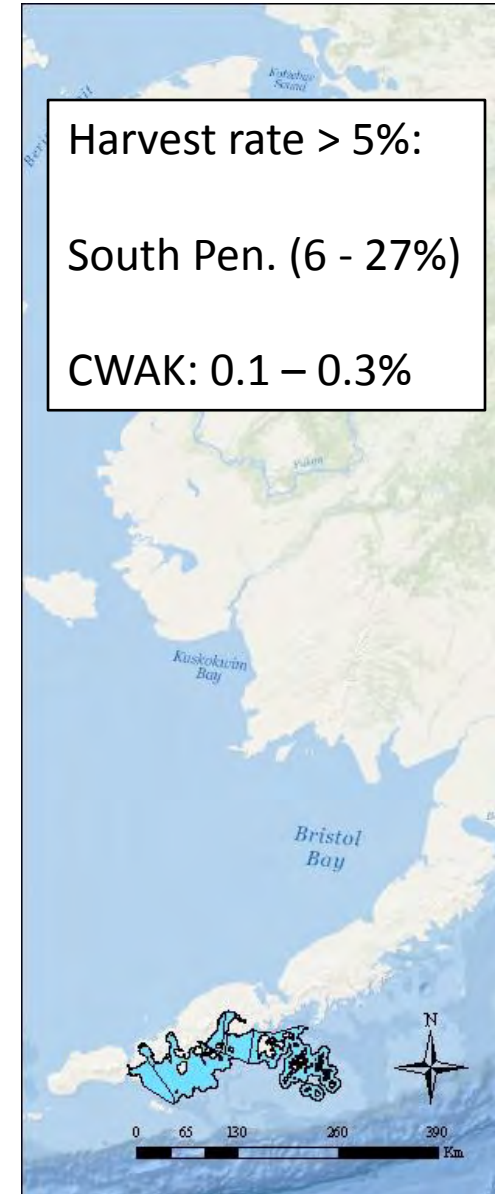
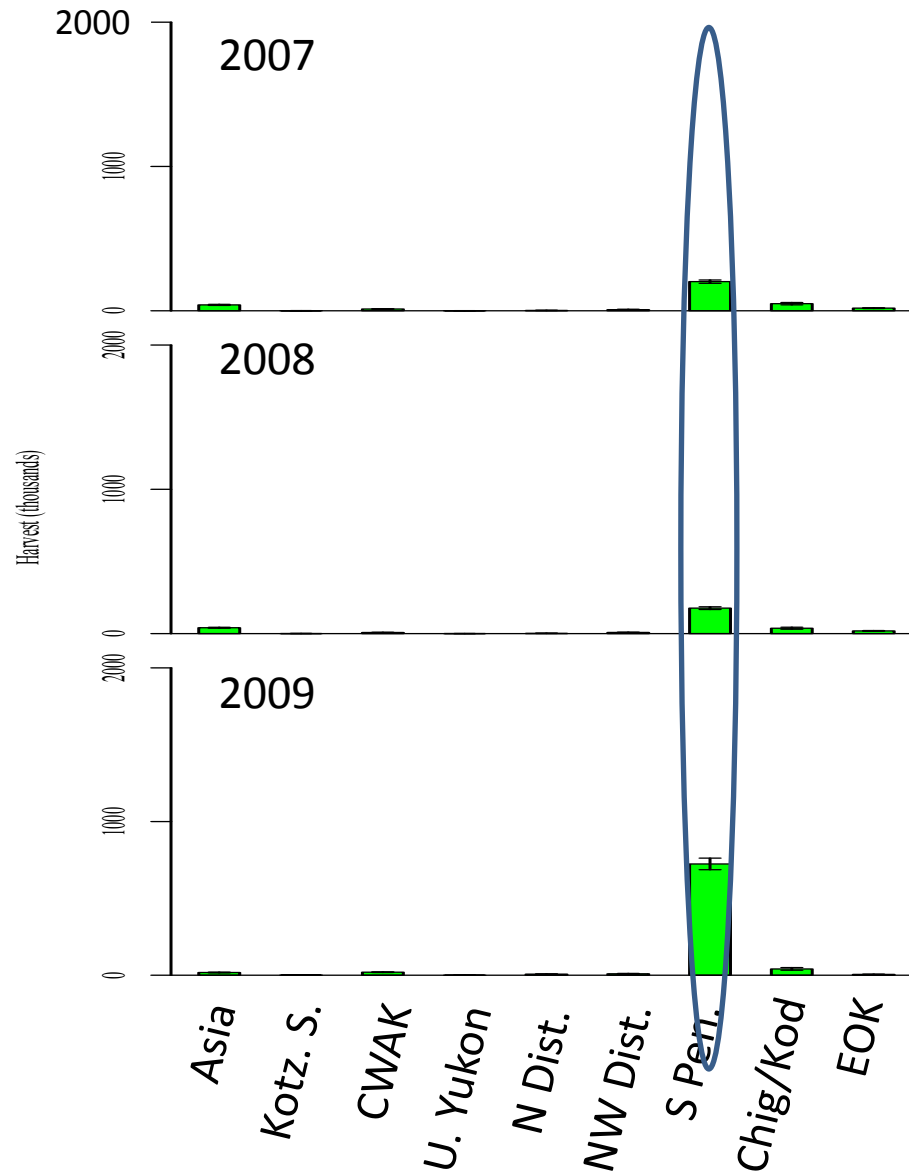
Proposals 187,
188, 189, 190,
210, 211



South Peninsula (post-June) : harvest numbers



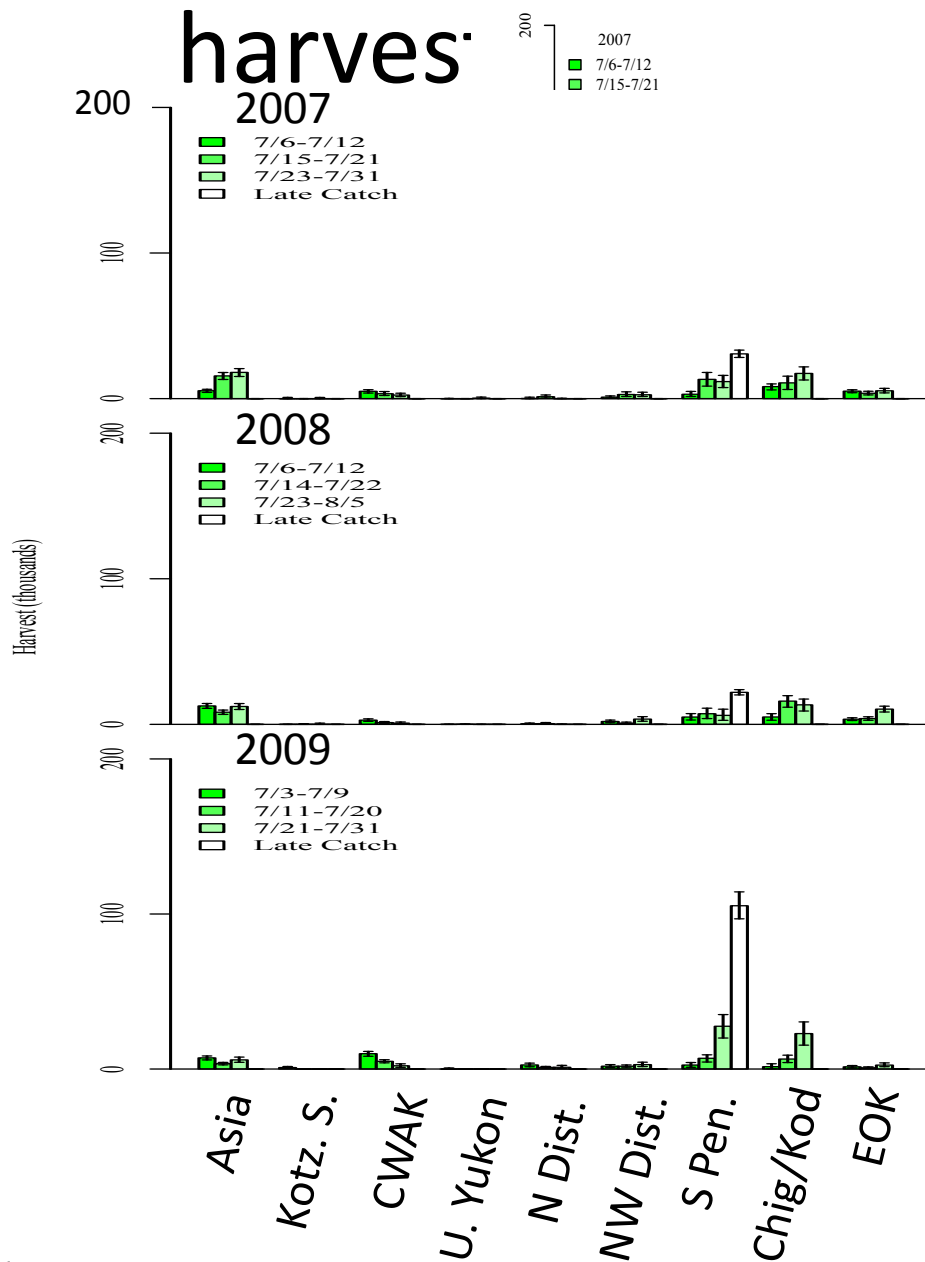
Proposals 187,
188, 189, 190,
210, 211



Shumagin Islands Section (post-June):



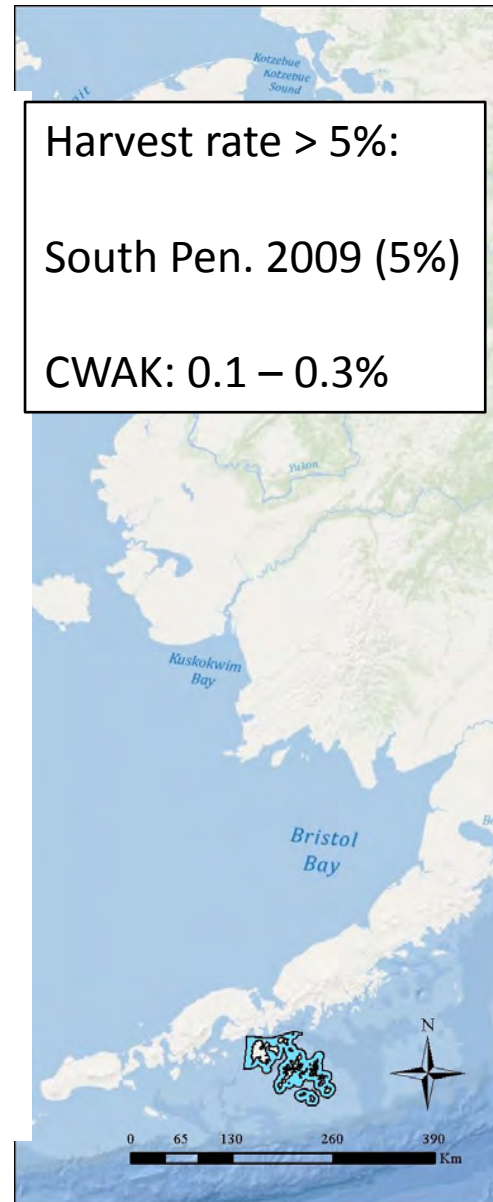
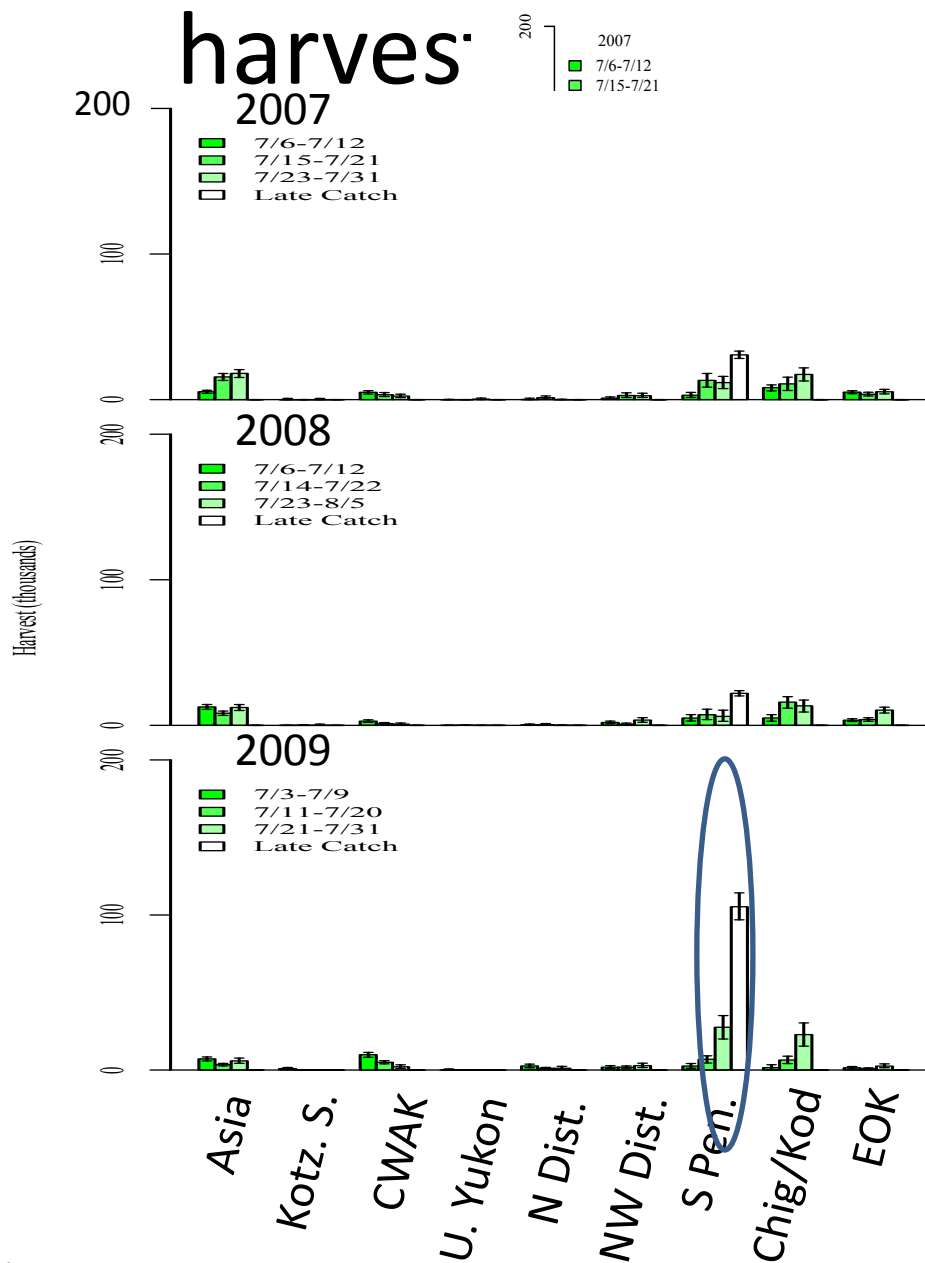
Proposals 187,
188, 189, 190,
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Shumagin Islands Section (post-June):



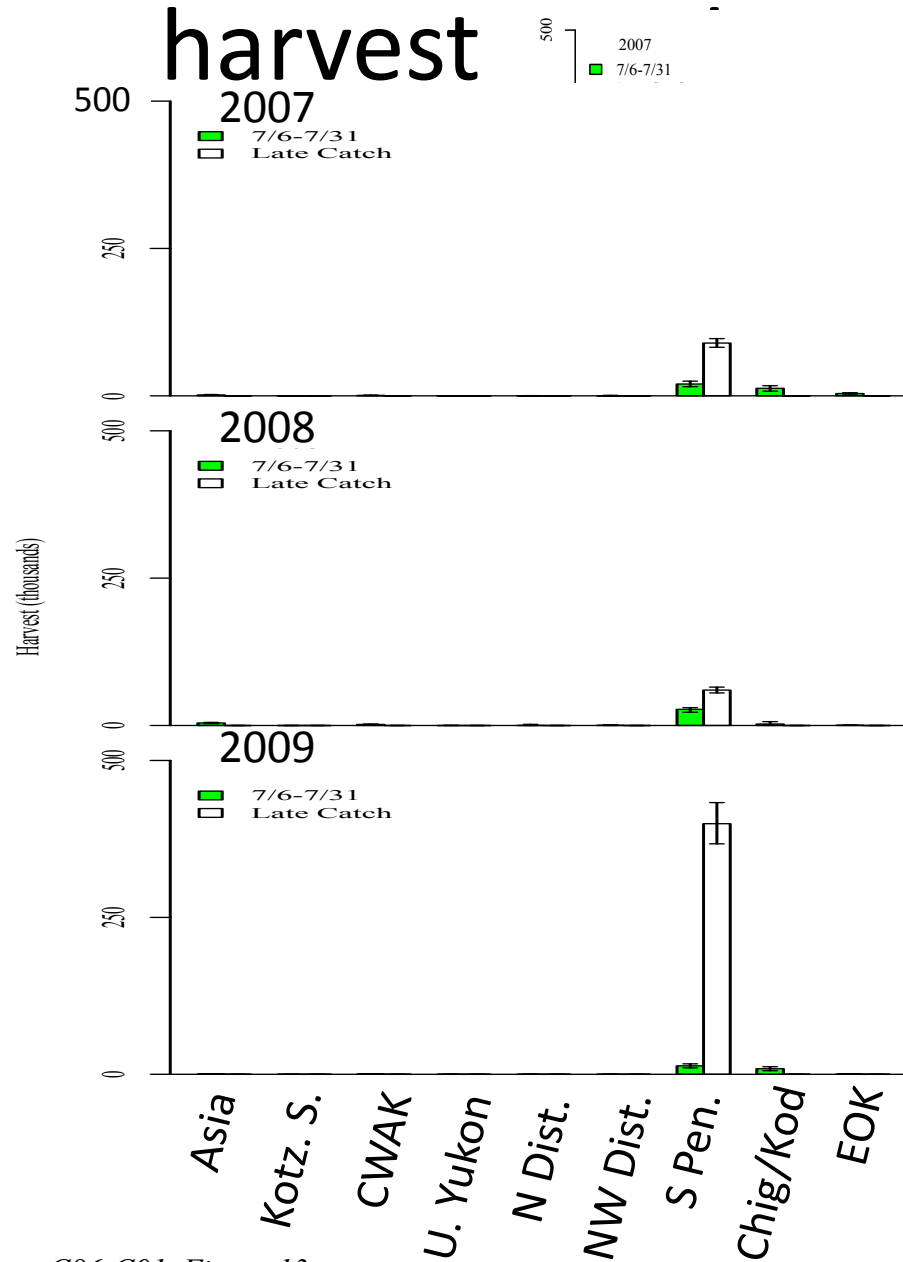
Proposals 187,
188, 189, 190,
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Dolgoi Island area (post-June):



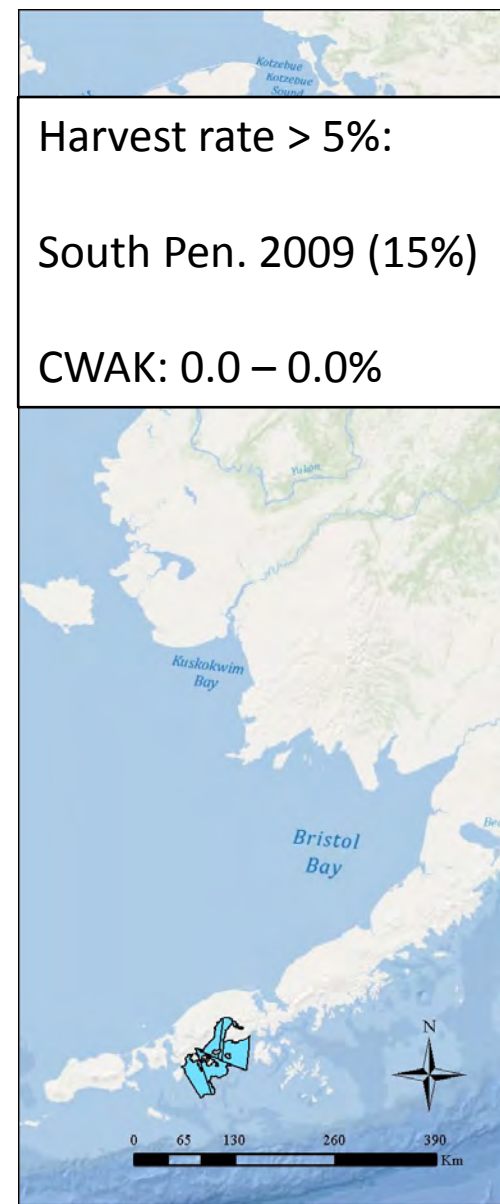
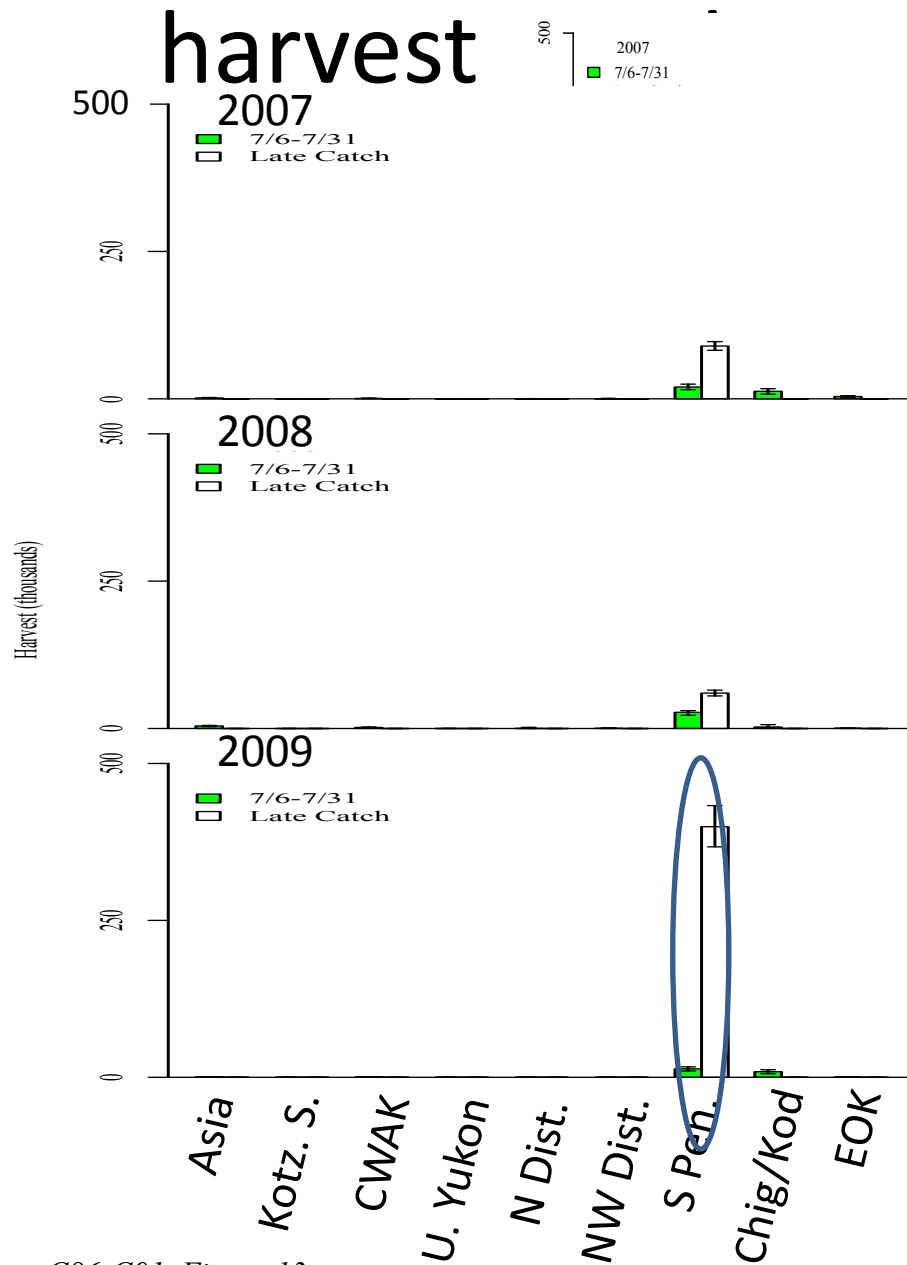
Proposals 187,
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Dolgoi Island area (post-June):



Proposals 187,
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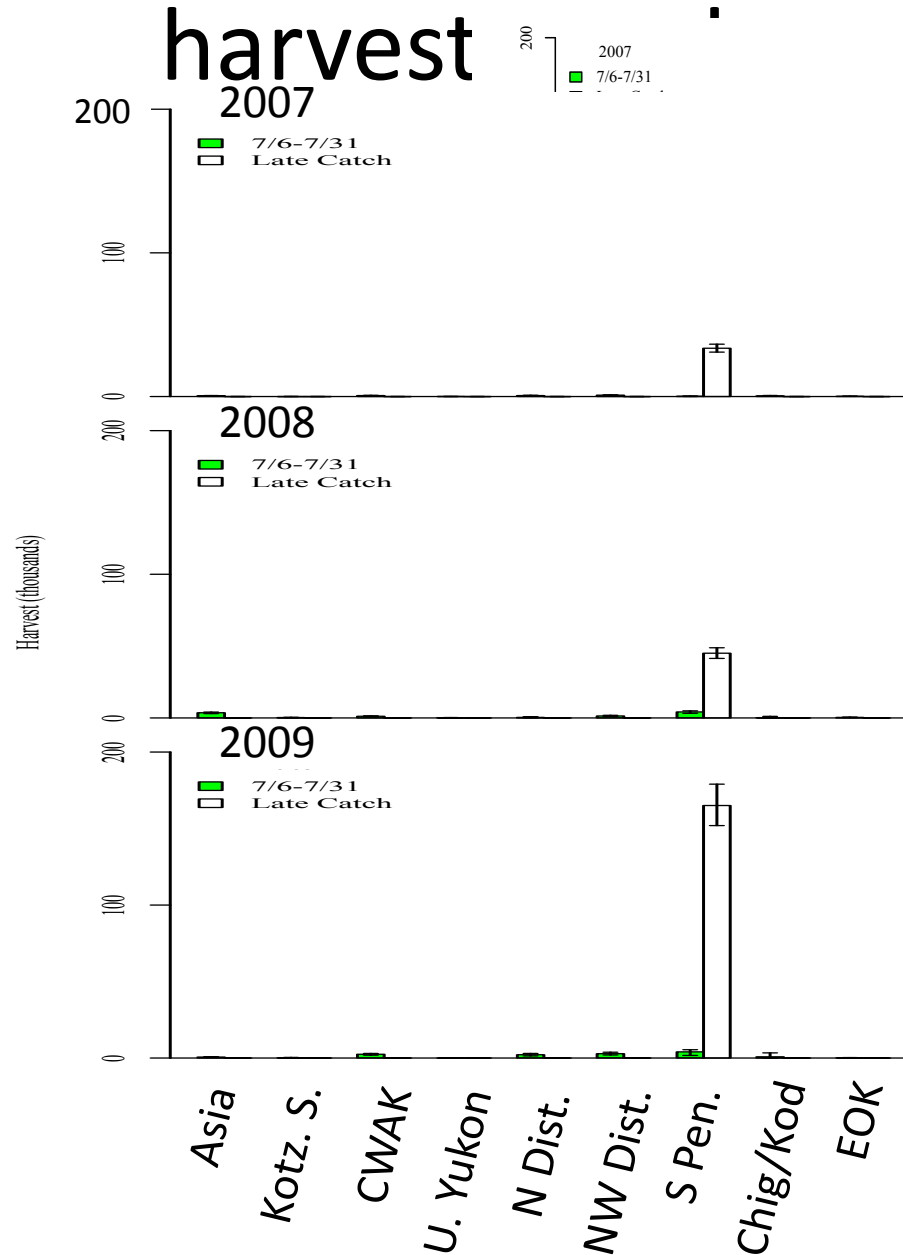


Harvest rate > 5%:
South Pen. 2009 (15%)
CWAK: 0.0 – 0.0%

Ikatan area (post-June):



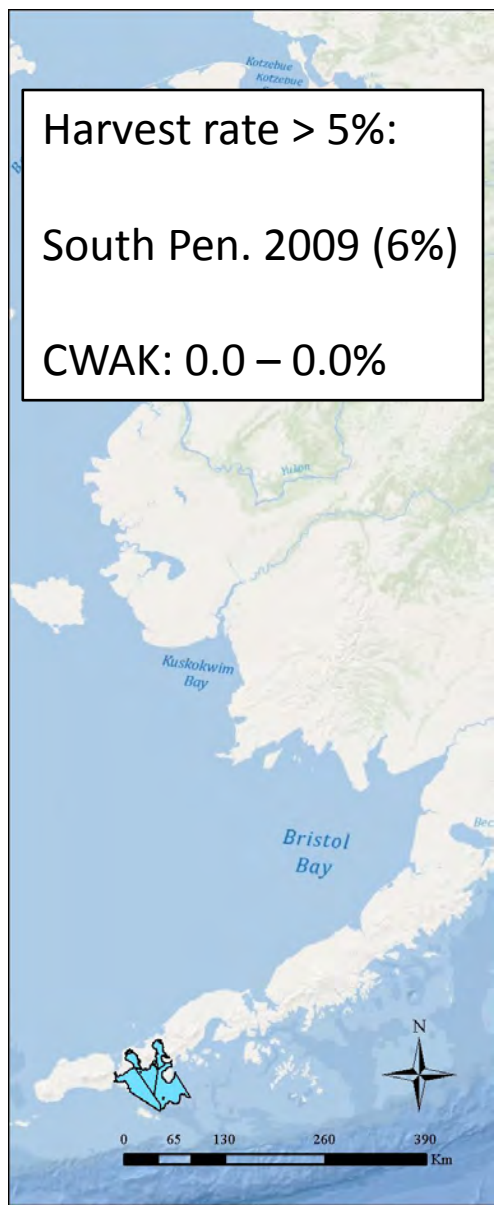
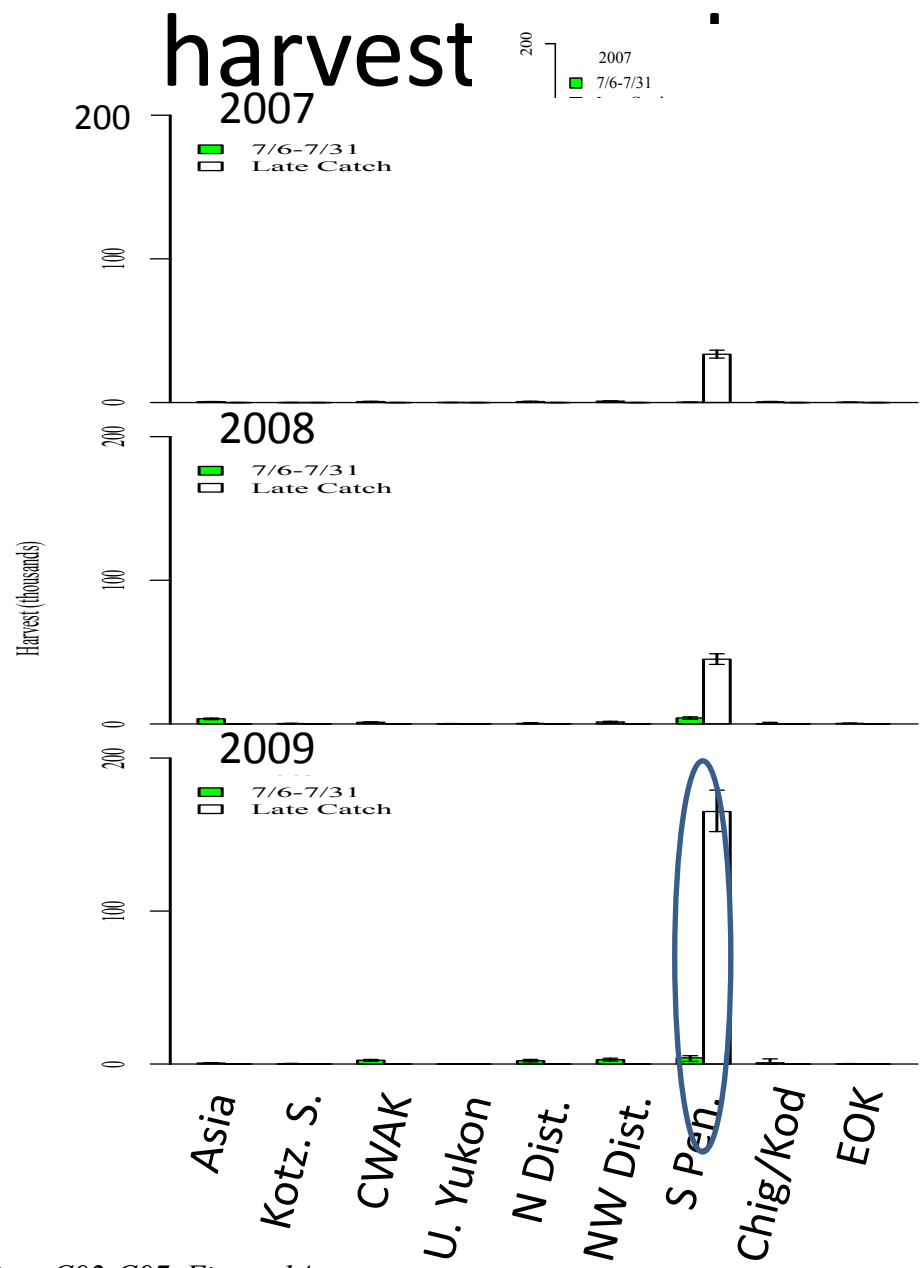
Proposals 187,
188, 189, 190,
210, 211



Ikatan area (post-June):



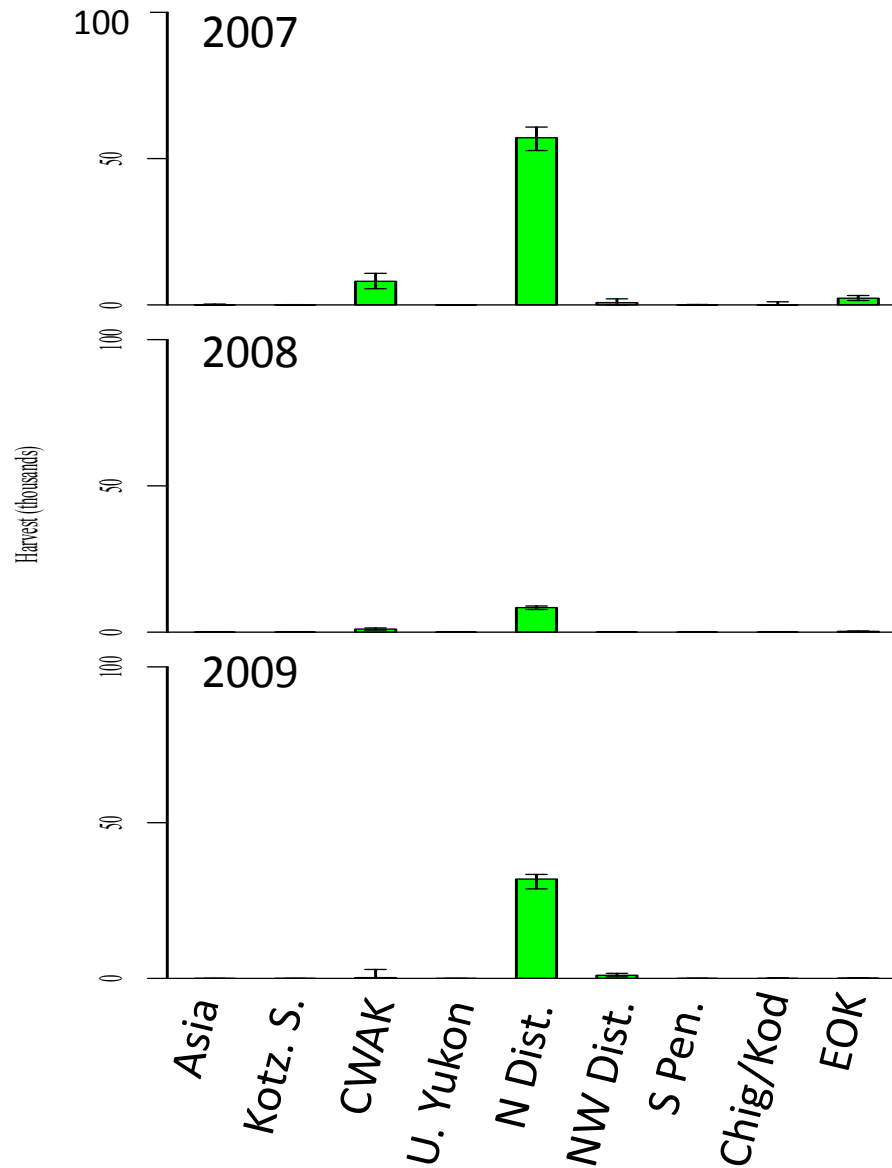
Proposals 187,
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Northern District : harvest numbers



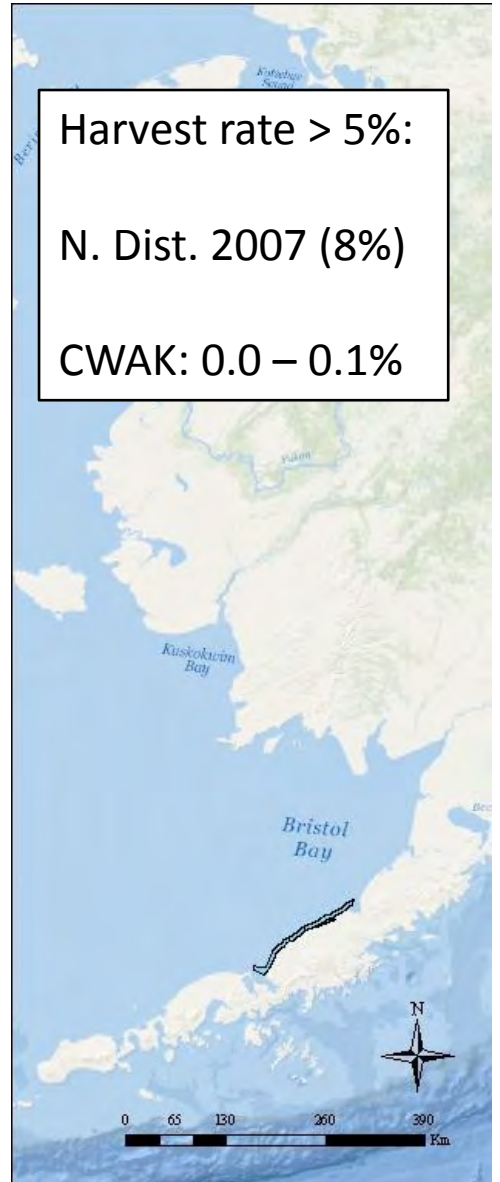
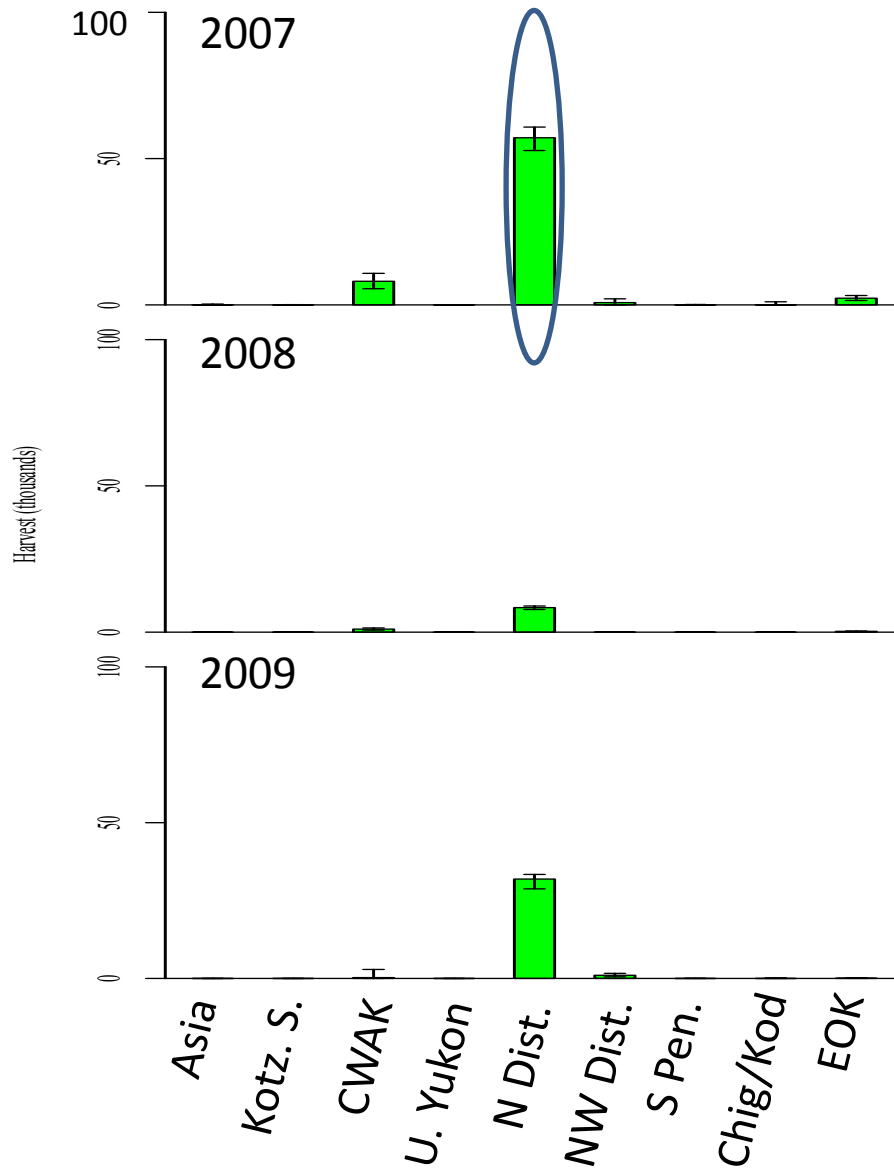
Proposals 208, 211



Northern District : harvest numbers



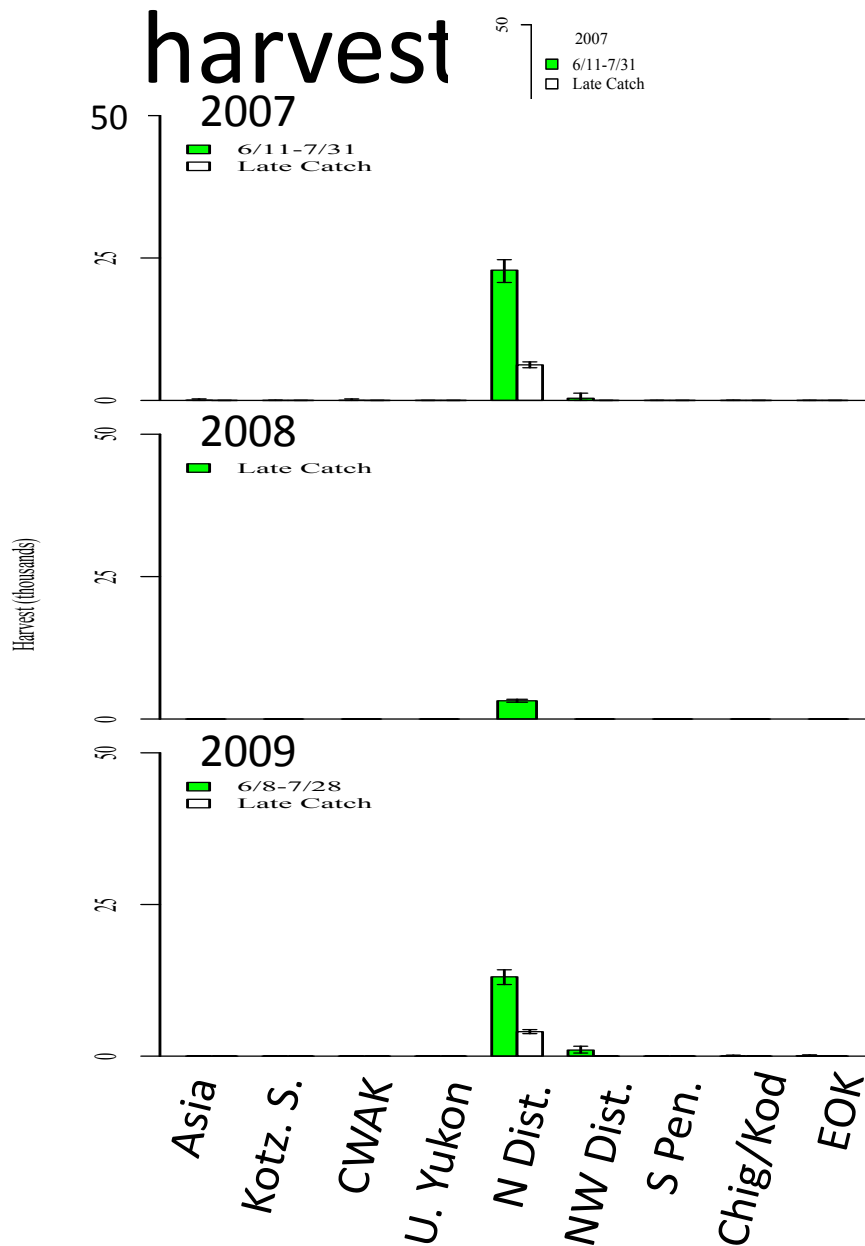
Proposals 208, 211



Bear River Section:



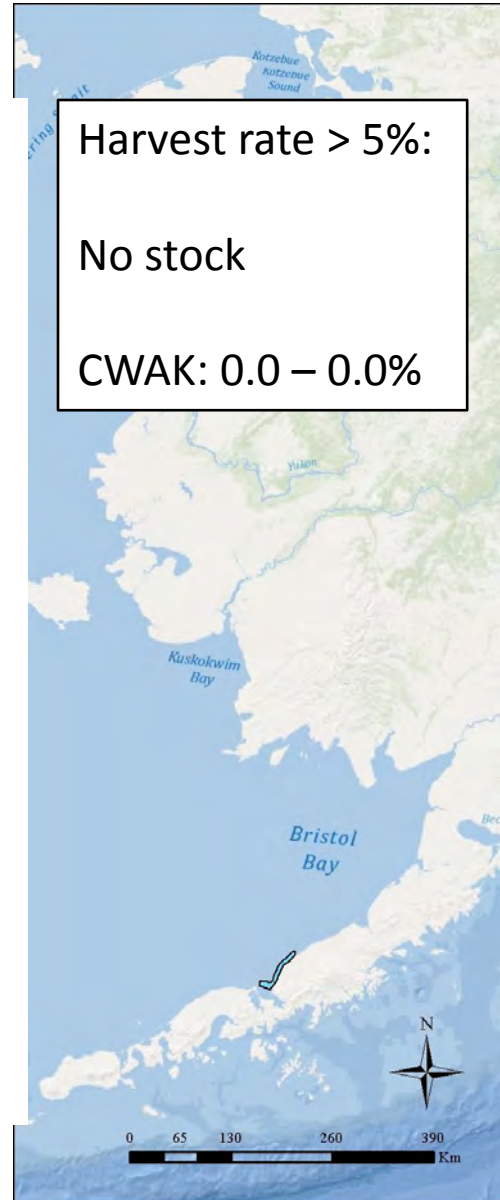
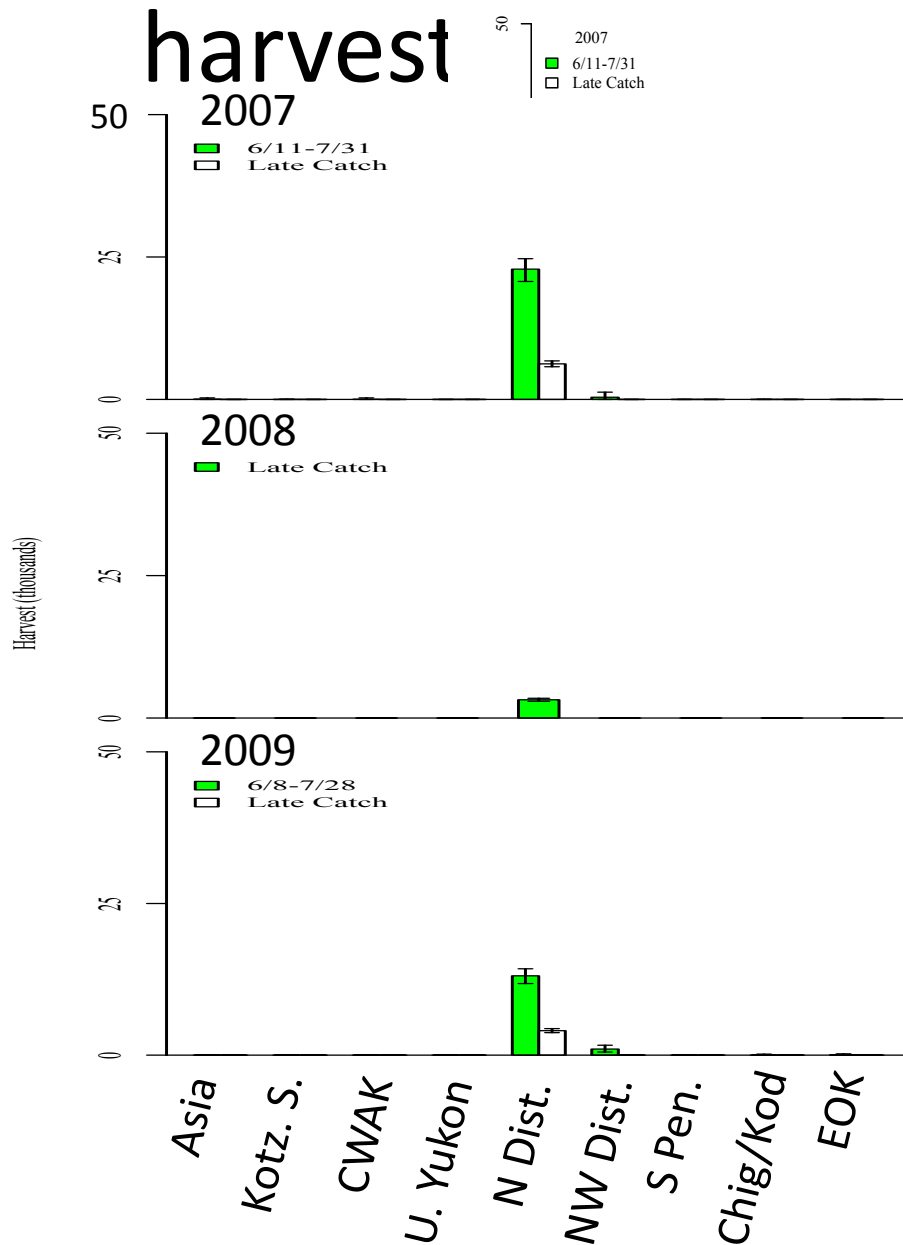
Proposals 208,
211



Bear River Section:



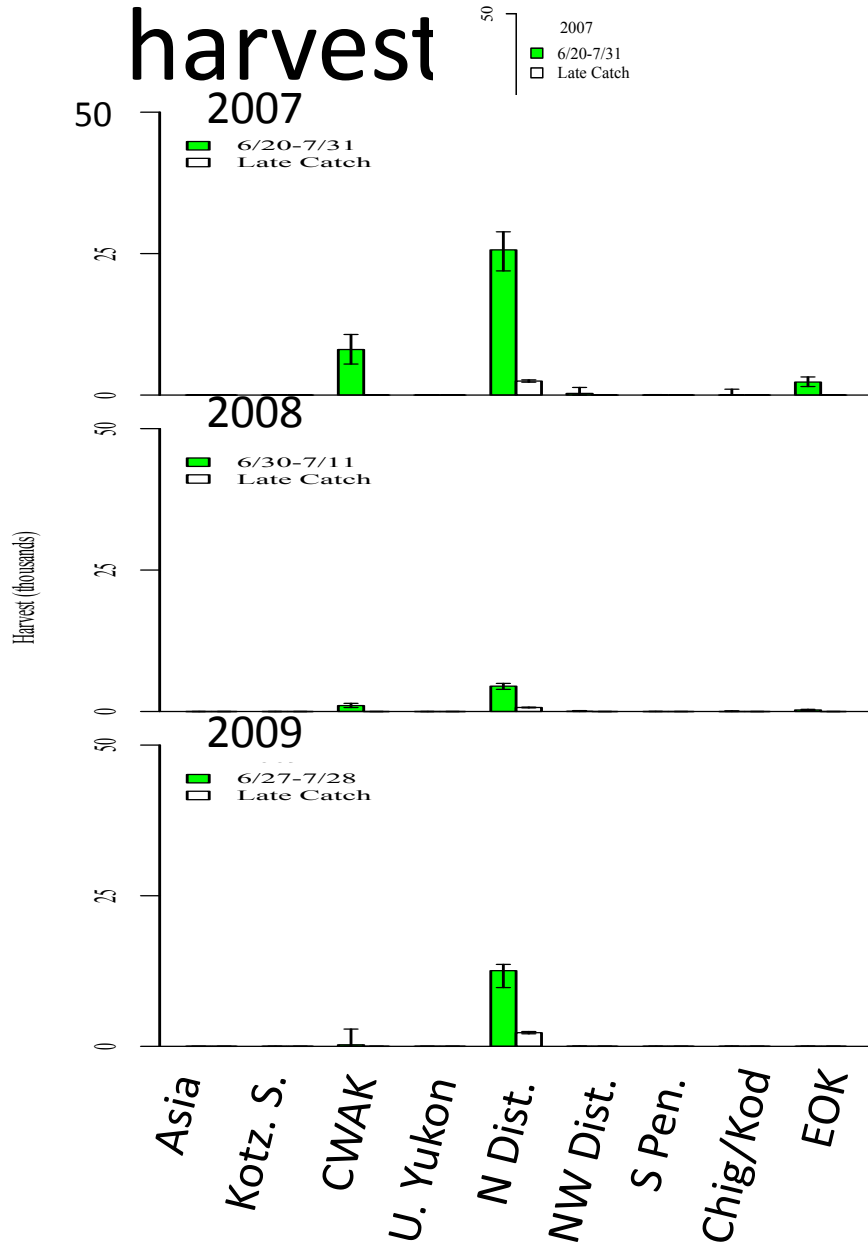
Proposals 208,
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Three Hills and Ilnik sections:



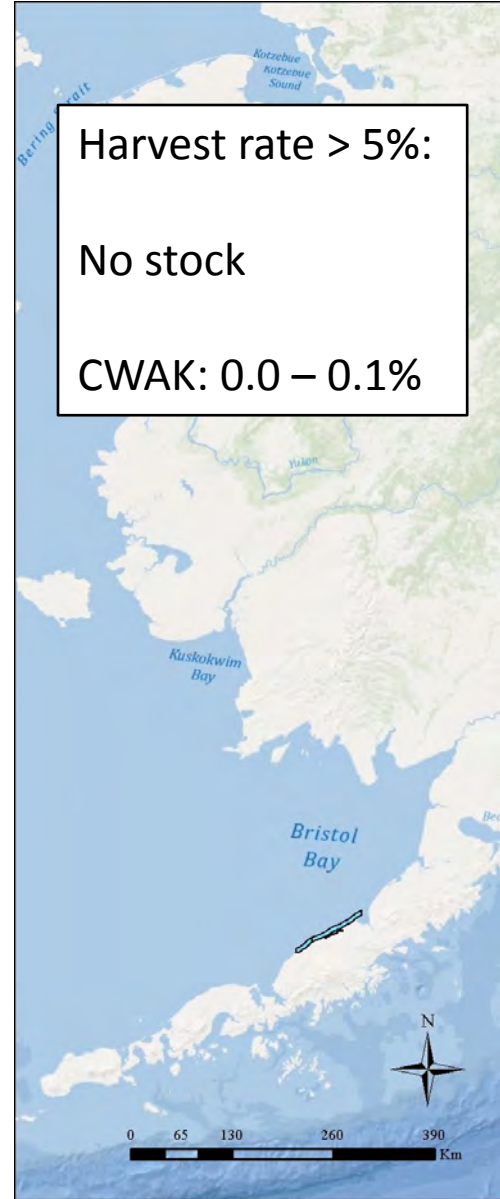
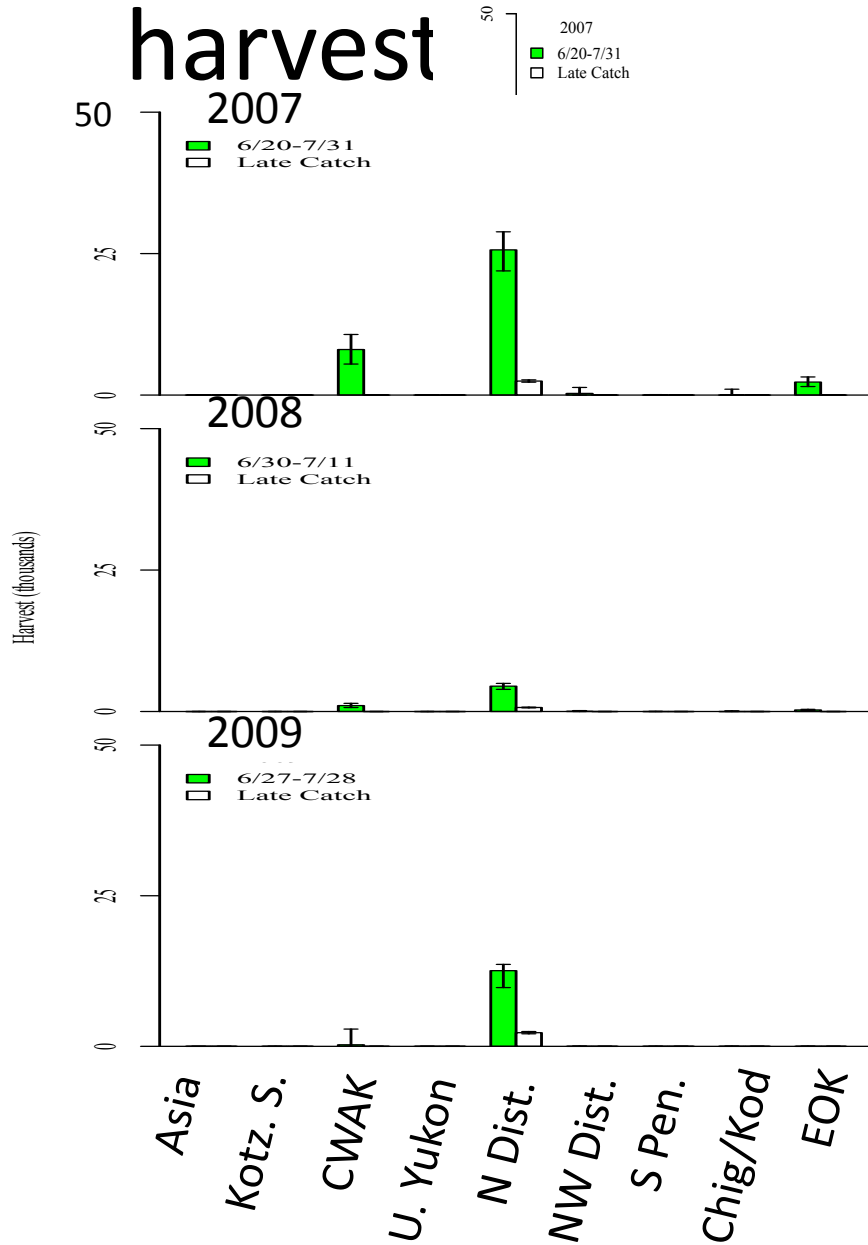
Proposals 208, 211



Three Hills and Ilnik sections:



Proposals 208, 211



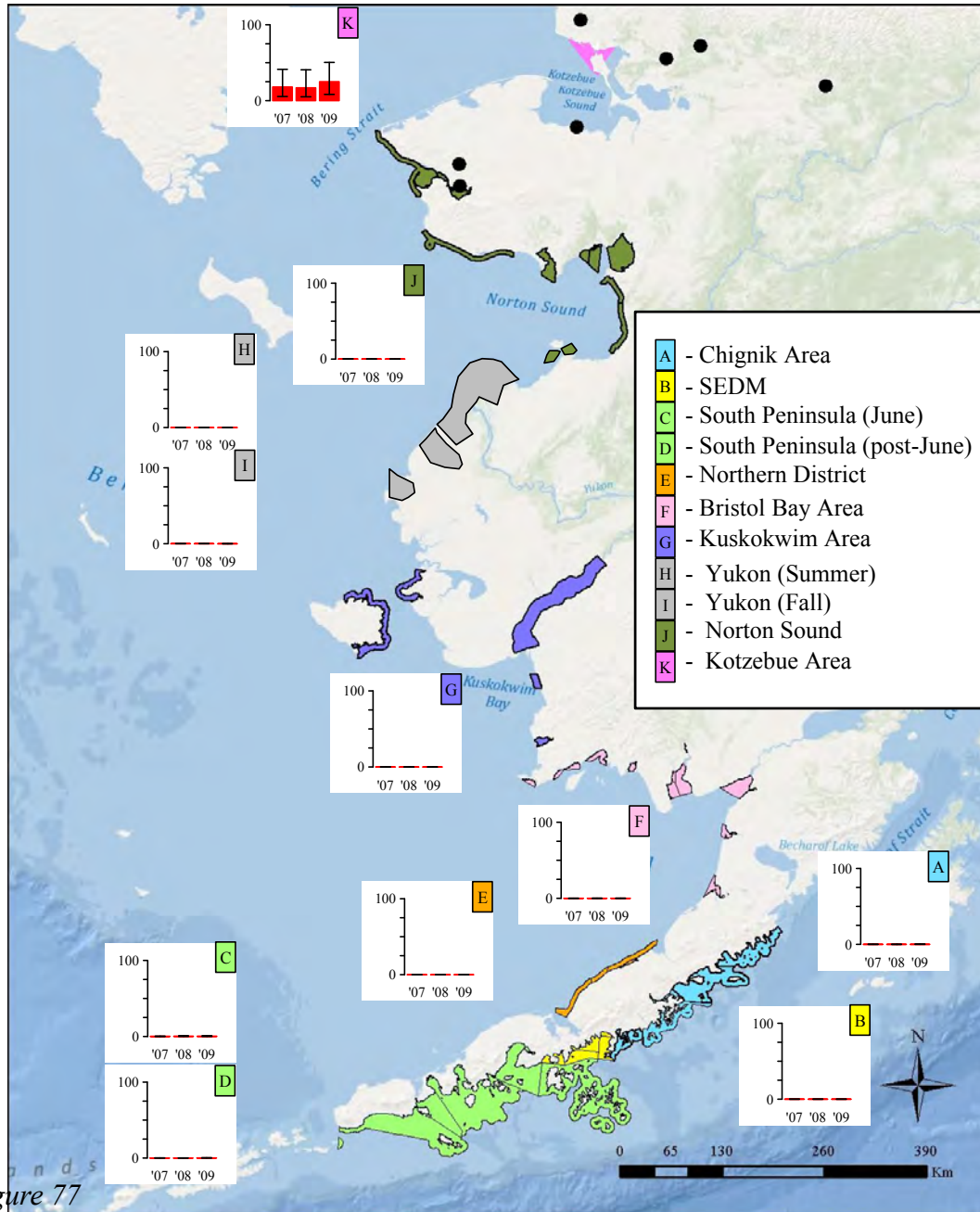
In what fisheries are a given stock
caught?



Kotzebue stock: harvest rates



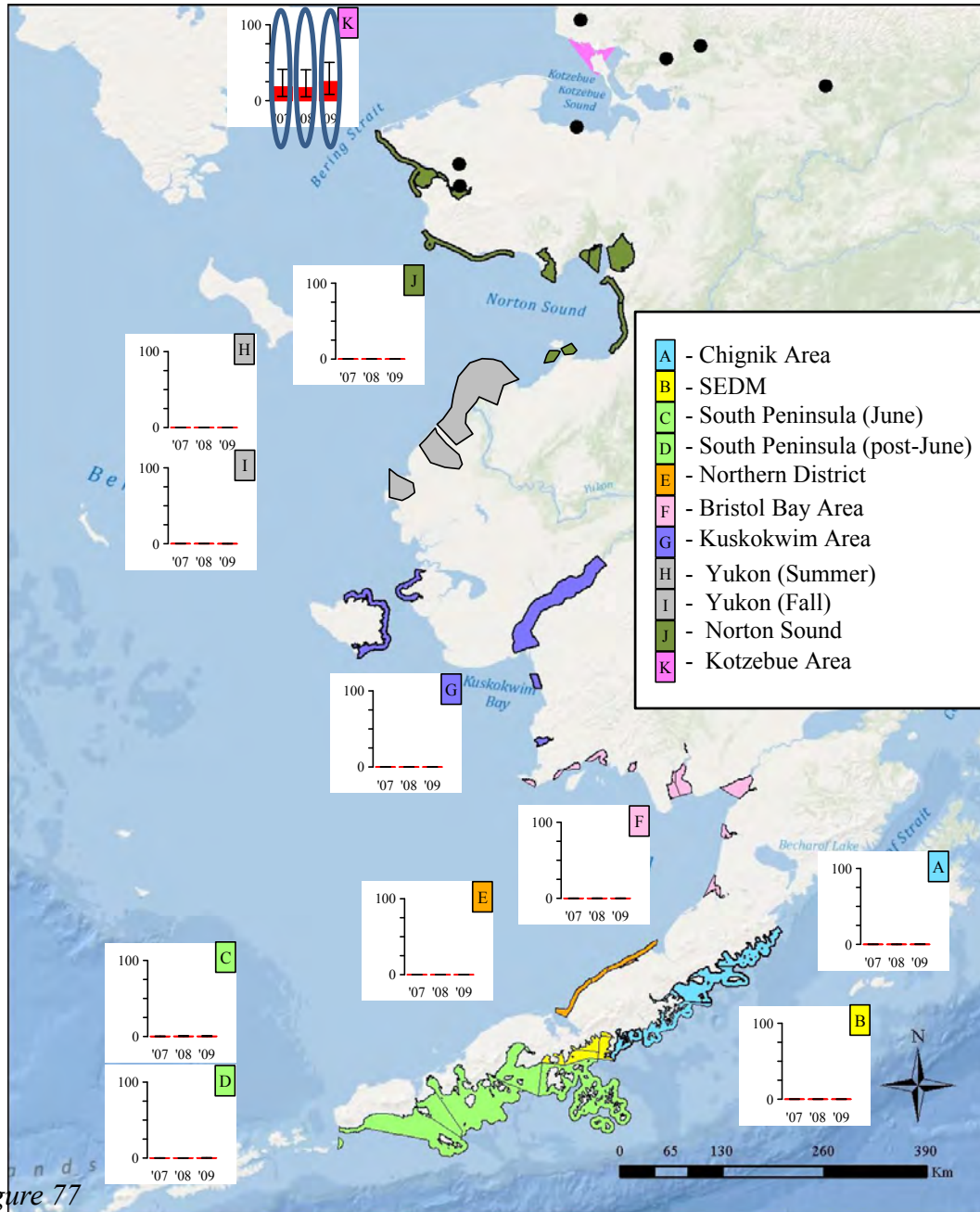
Proposal 211



Kotzebue stock: harvest rates



Proposal 211



Harvest rate > 5%:
Kotzebue (17-25%)

Where to find harvest rates for a specific stock across all fisheries (chum salmon)



Special Publication No. 12-25

Harvest and Harvest Rates of Chum Salmon Stocks in Fisheries of the Western Alaska Salmon Stock Identification Program (WASSIP), 2007–2009

by

Andrew R. Munro,
Christopher Habicht,
Tyler H. Dann,
Douglas M. Eggers,
William D. Templin,
Mark J. Witteveen,
Timothy T. Baker,
Kathrine G. Howard,
James R. Jasper,
Serena D. Rogers Olive,
Heather L. Liller,
Erica L. Chenoweth,
and
Eric C. Volk

November 2012

Alaska Department of Fish and Game Division of Sport Fish and Commercial Fisheries

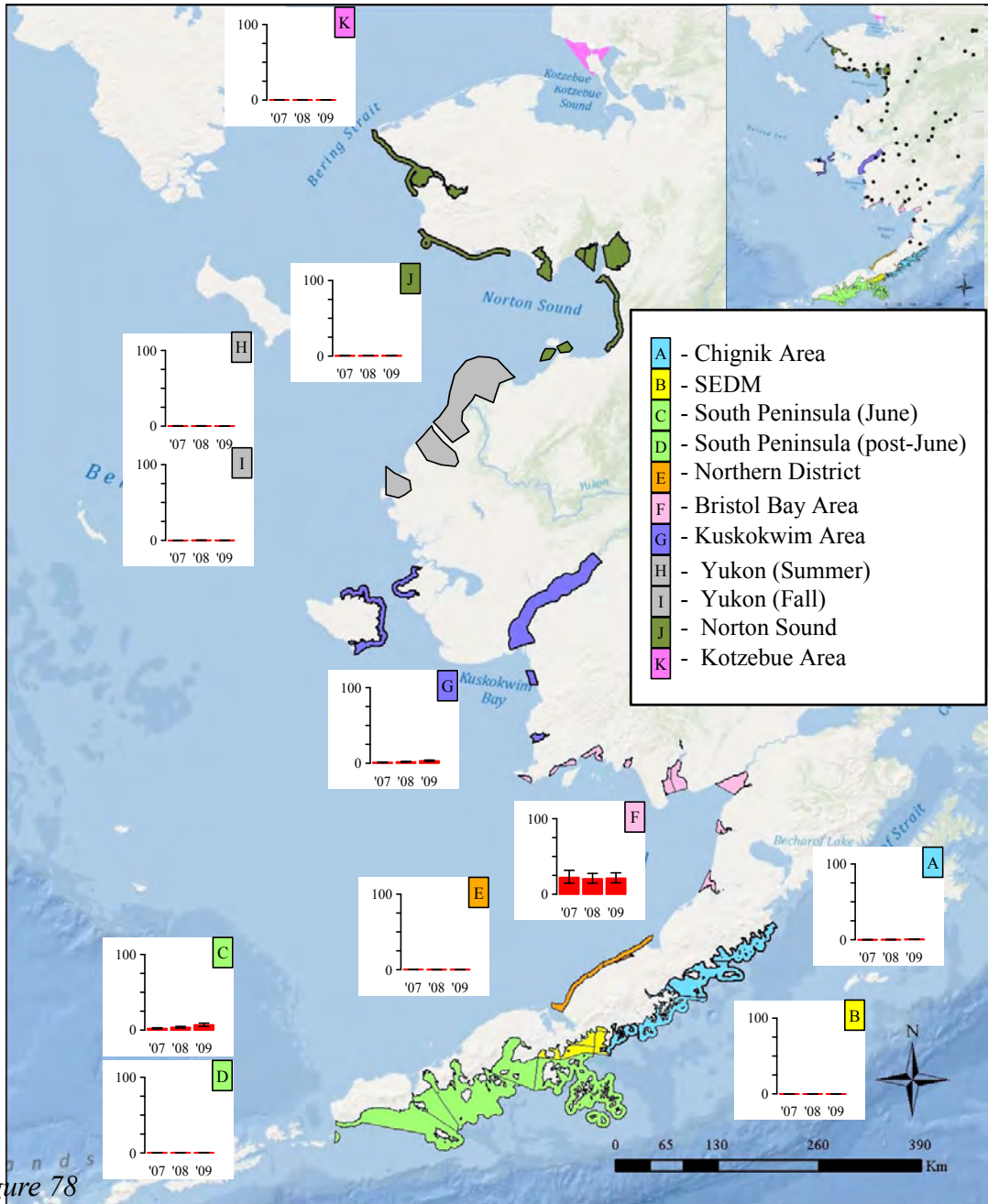


- SP 12-25
- Figures: 77 – 83
- Tables: 152 – 178
 - Tabulated data shown in figures
- Order: Starts in Asia, ends in East of Kodiak

Coastal Western Alaska stock: harvest rates



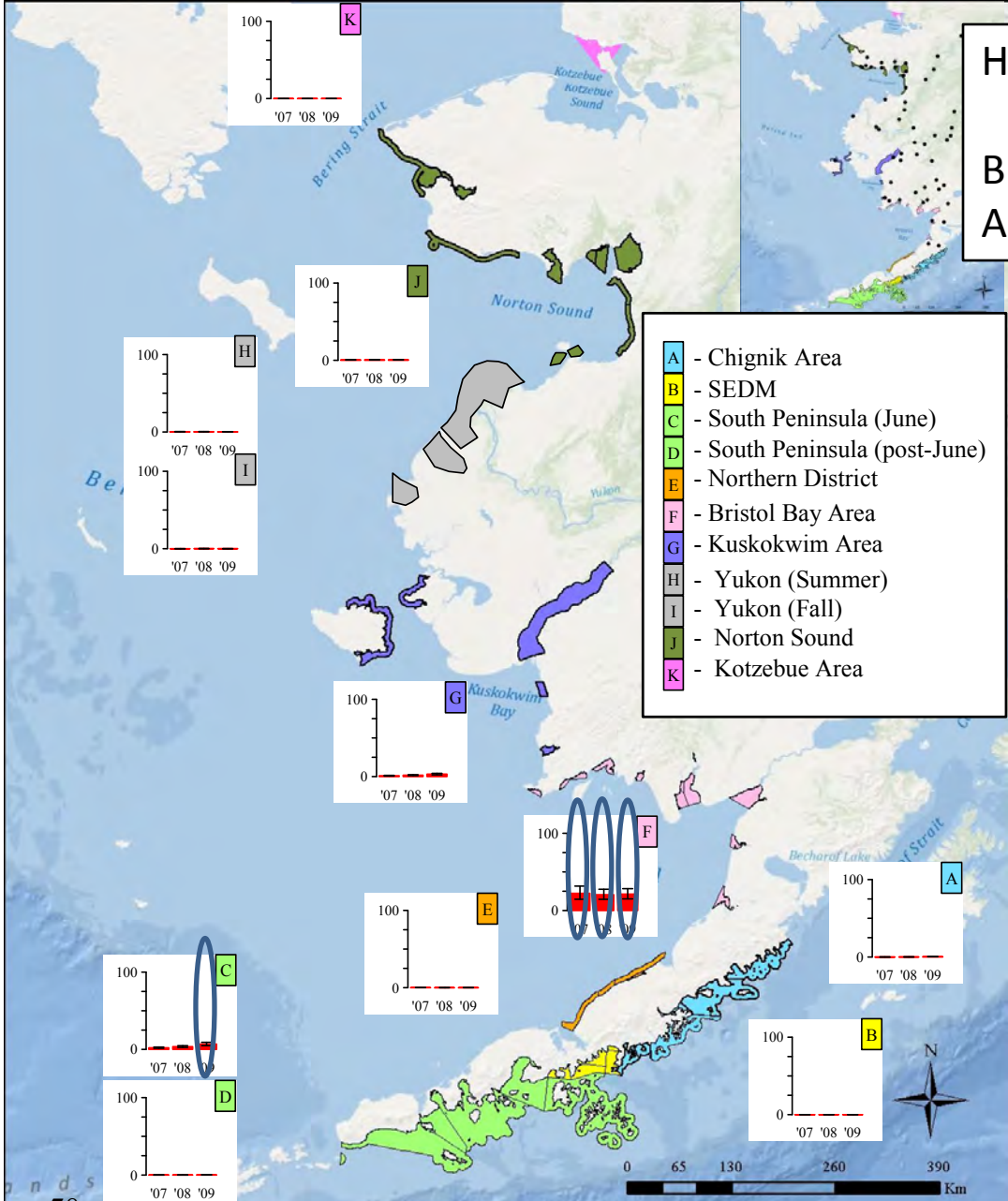
Proposal 211



Coastal Western Alaska stock: harvest rates



Proposal 211



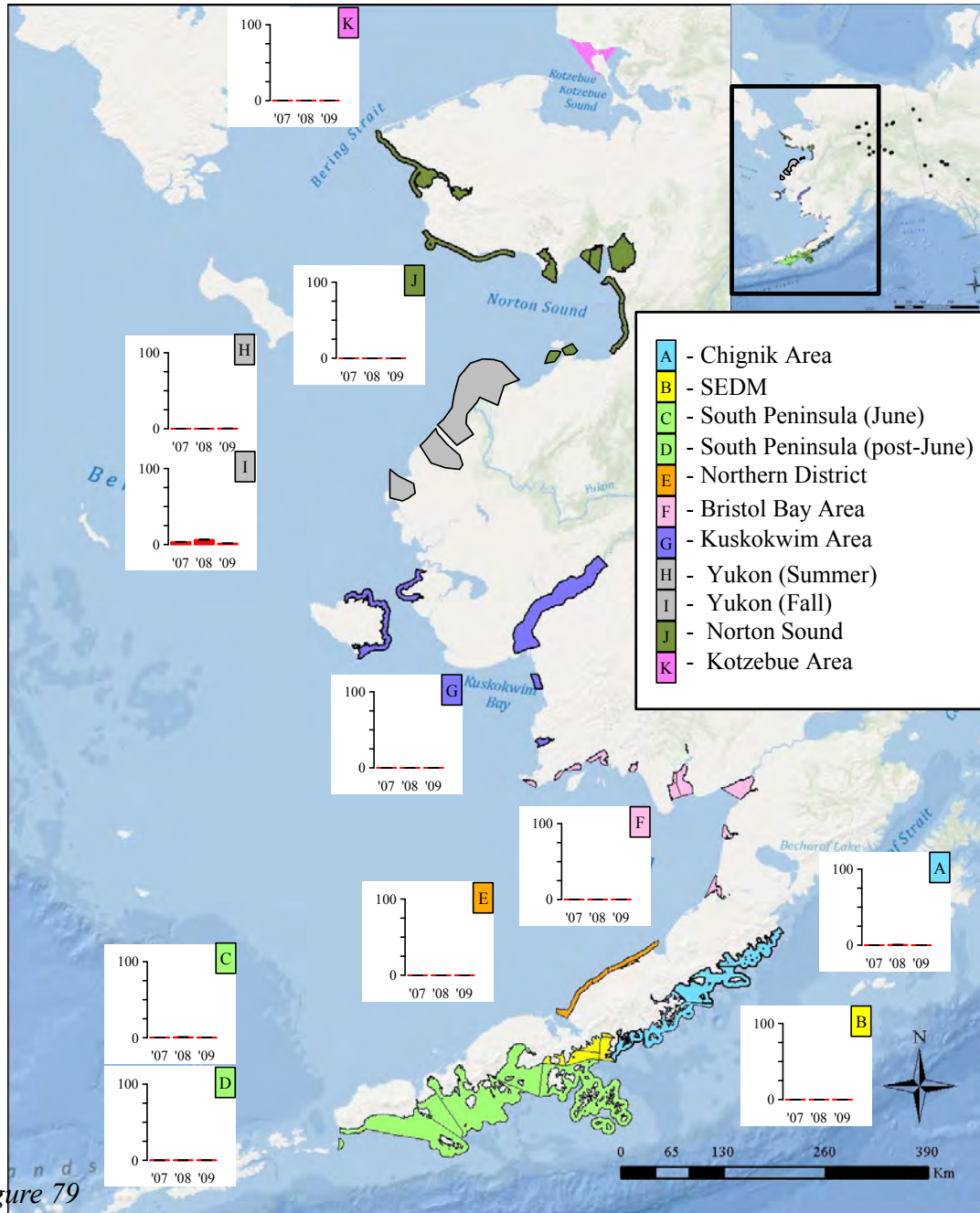
Harvest rate > 5%:
 Bristol Bay (21-22%)
 AK Pen (June) '09 (7%)

- A - Chignik Area
- B - SEDM
- C - South Peninsula (June)
- D - South Peninsula (post-June)
- E - Northern District
- F - Bristol Bay Area
- G - Kuskokwim Area
- H - Yukon (Summer)
- I - Yukon (Fall)
- J - Norton Sound
- K - Kotzebue Area

Upper Yukon River stock: harvest rates



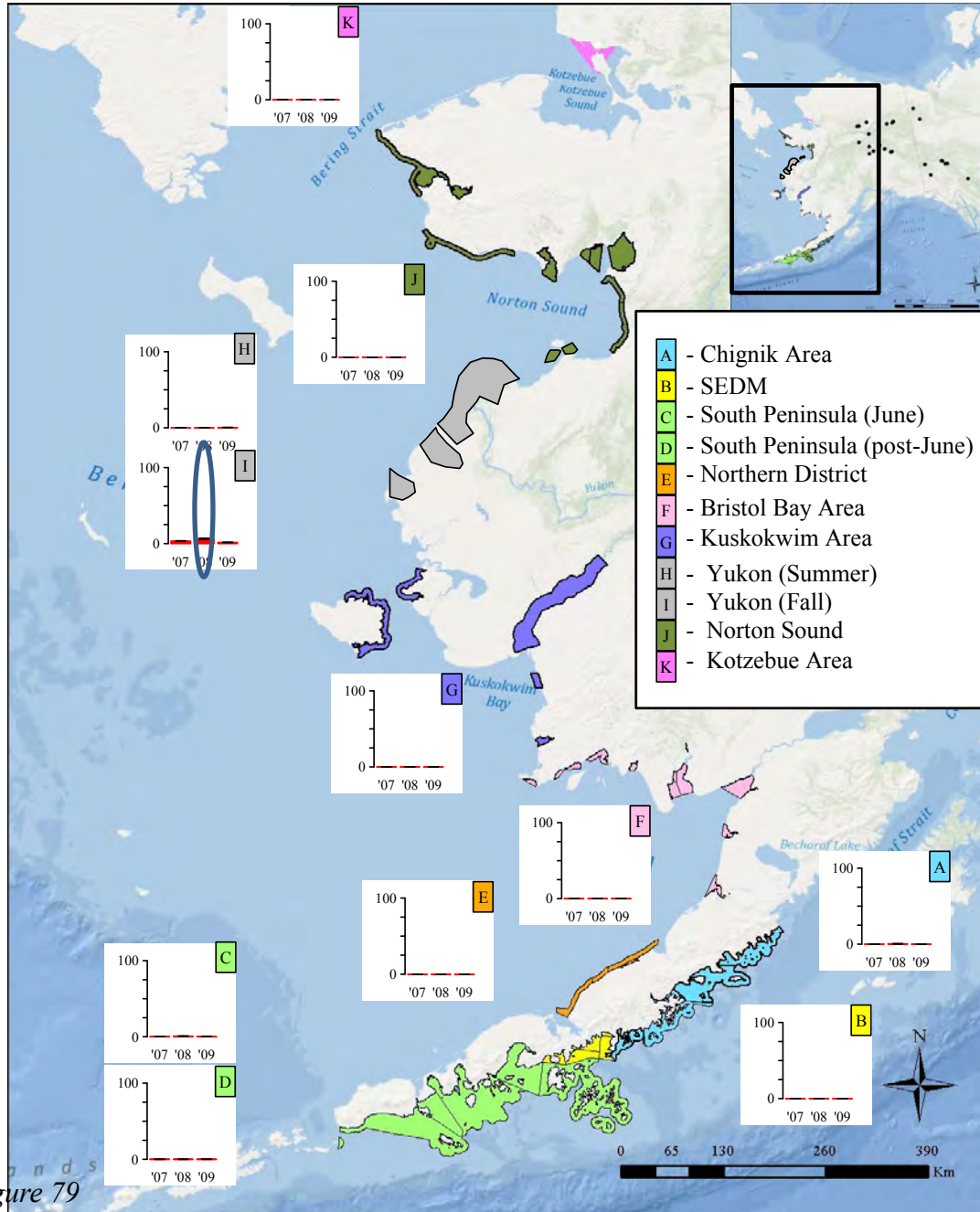
Proposal 211



Upper Yukon River stock: harvest rates



Proposal 211

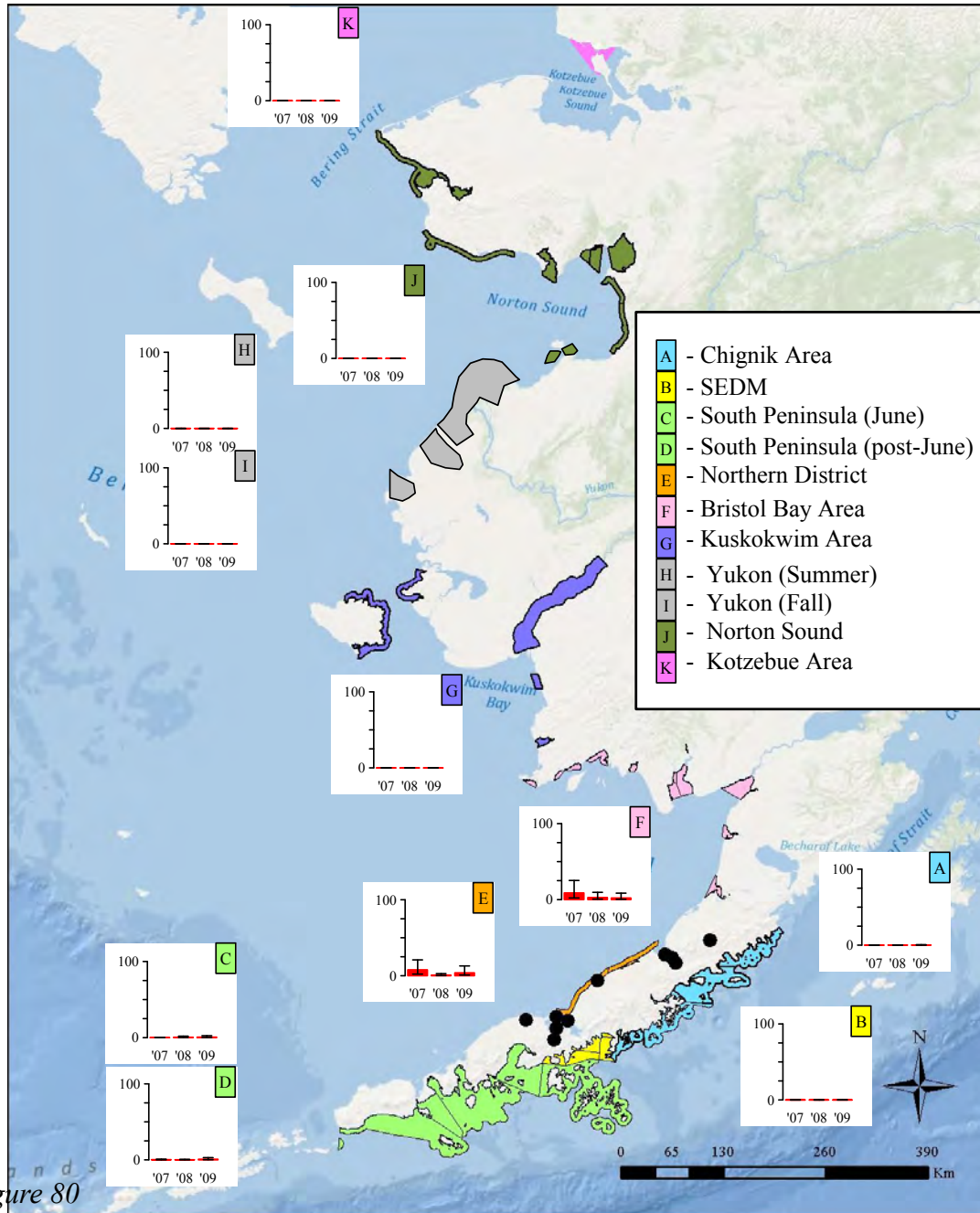


Harvest rate > 5%:
Yukon Fall '08 (6%)

Northern District stock: harvest rates



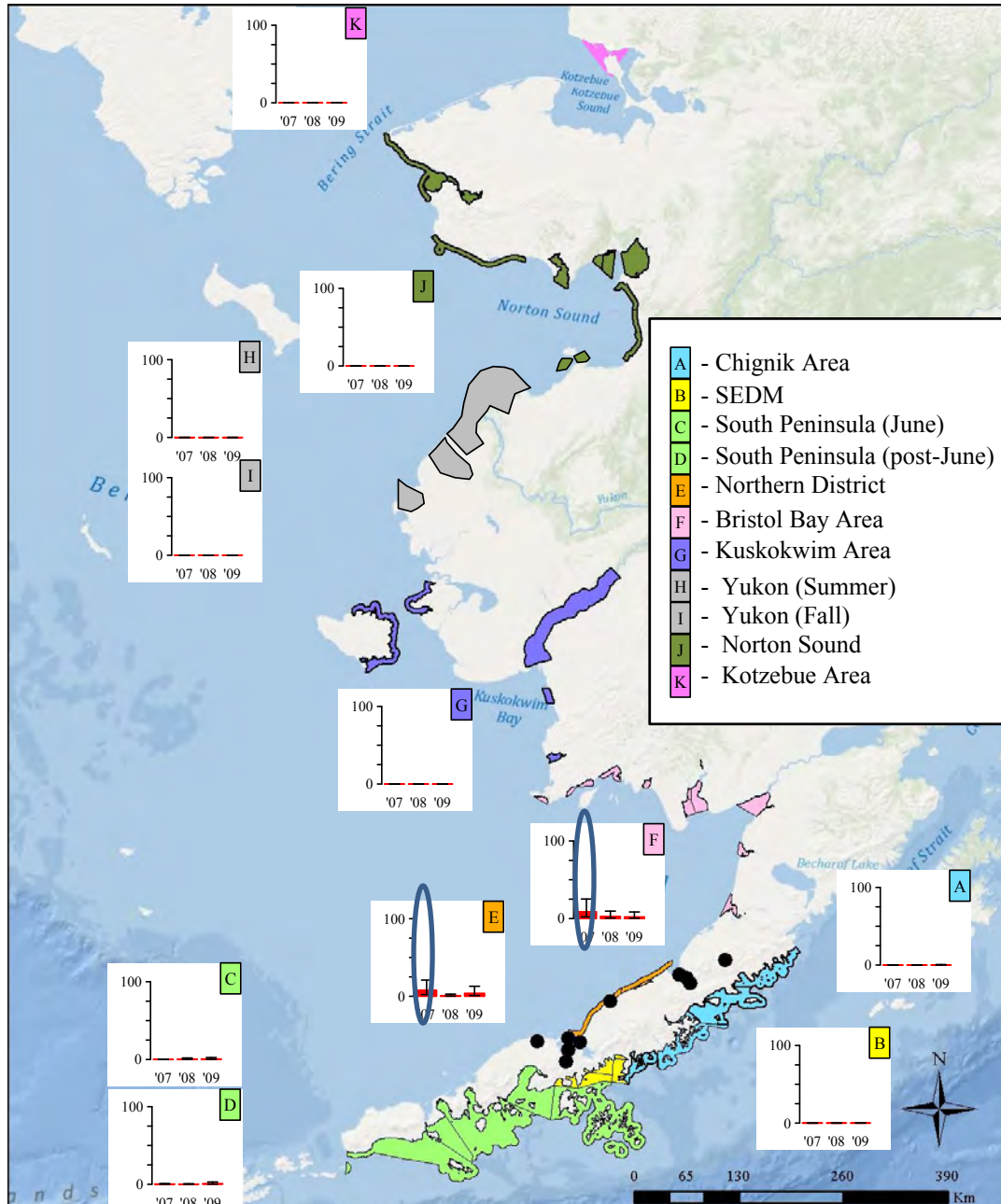
Proposal 211



Northern District stock: harvest rates



Proposal 211

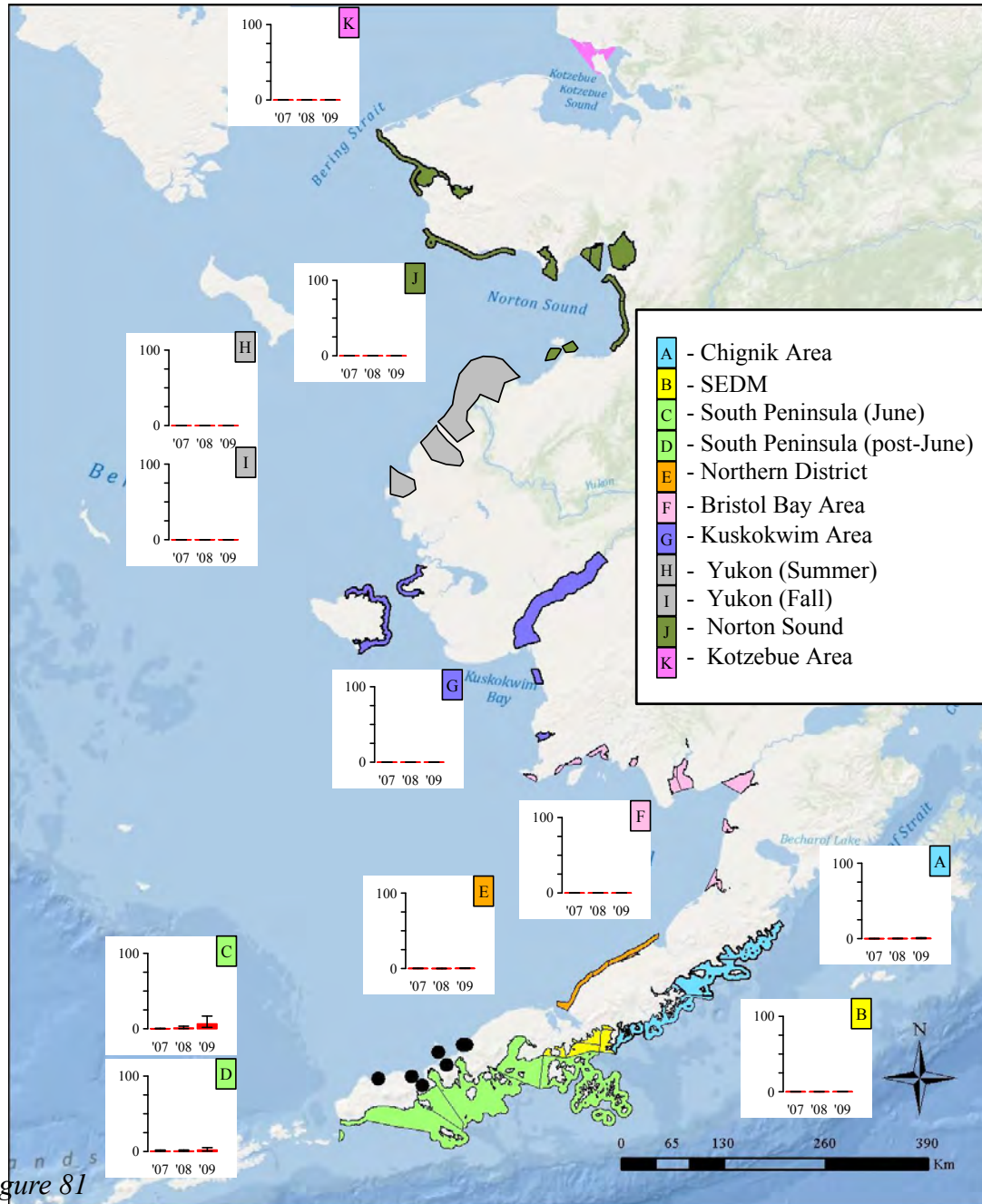


Harvest rate > 5%:
 N. Dist. '07 (8%)
 Bristol Bay '07 (9%)

Northwestern District stock: harvest rates



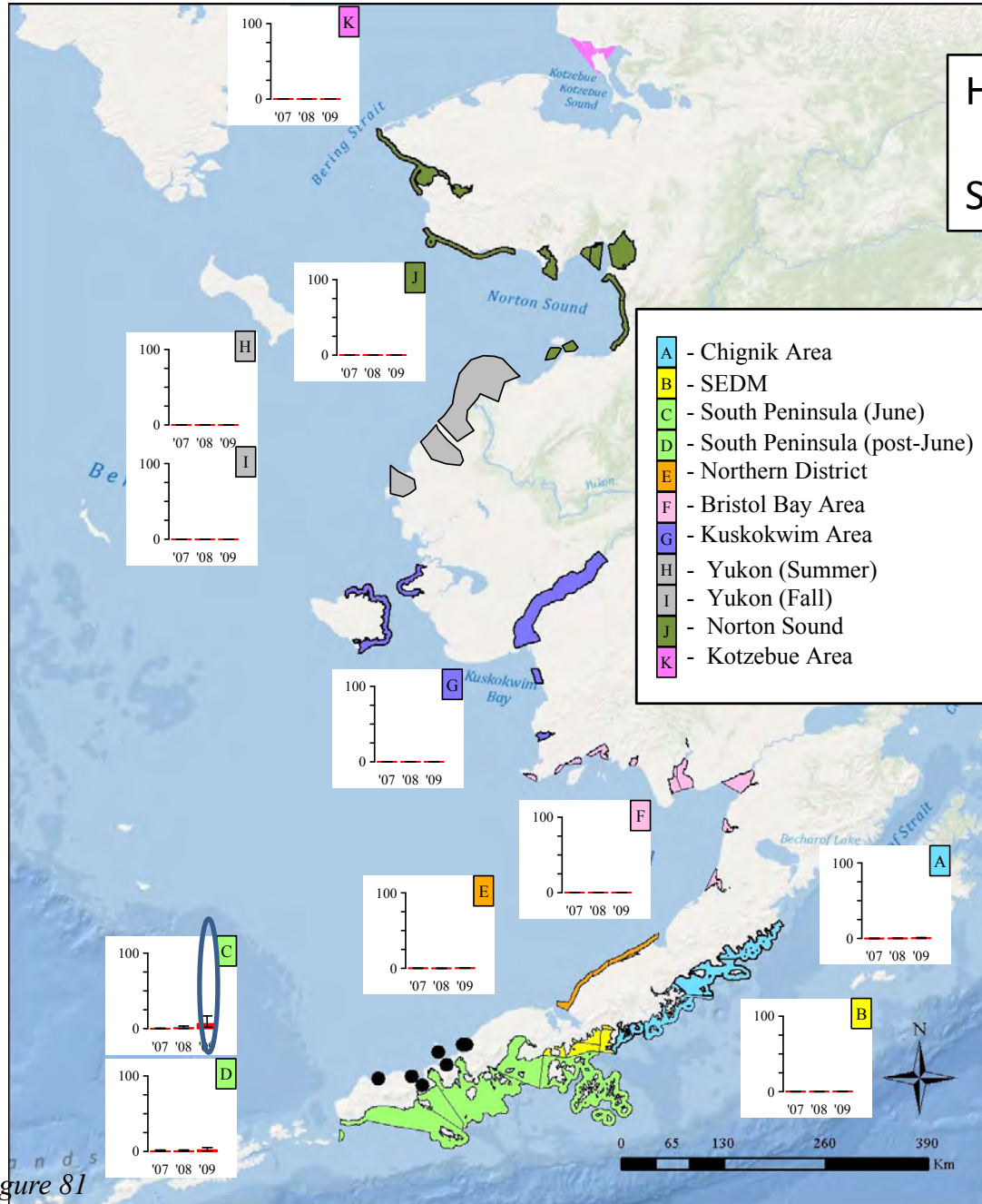
Proposal 211



Northwestern District stock: harvest rates



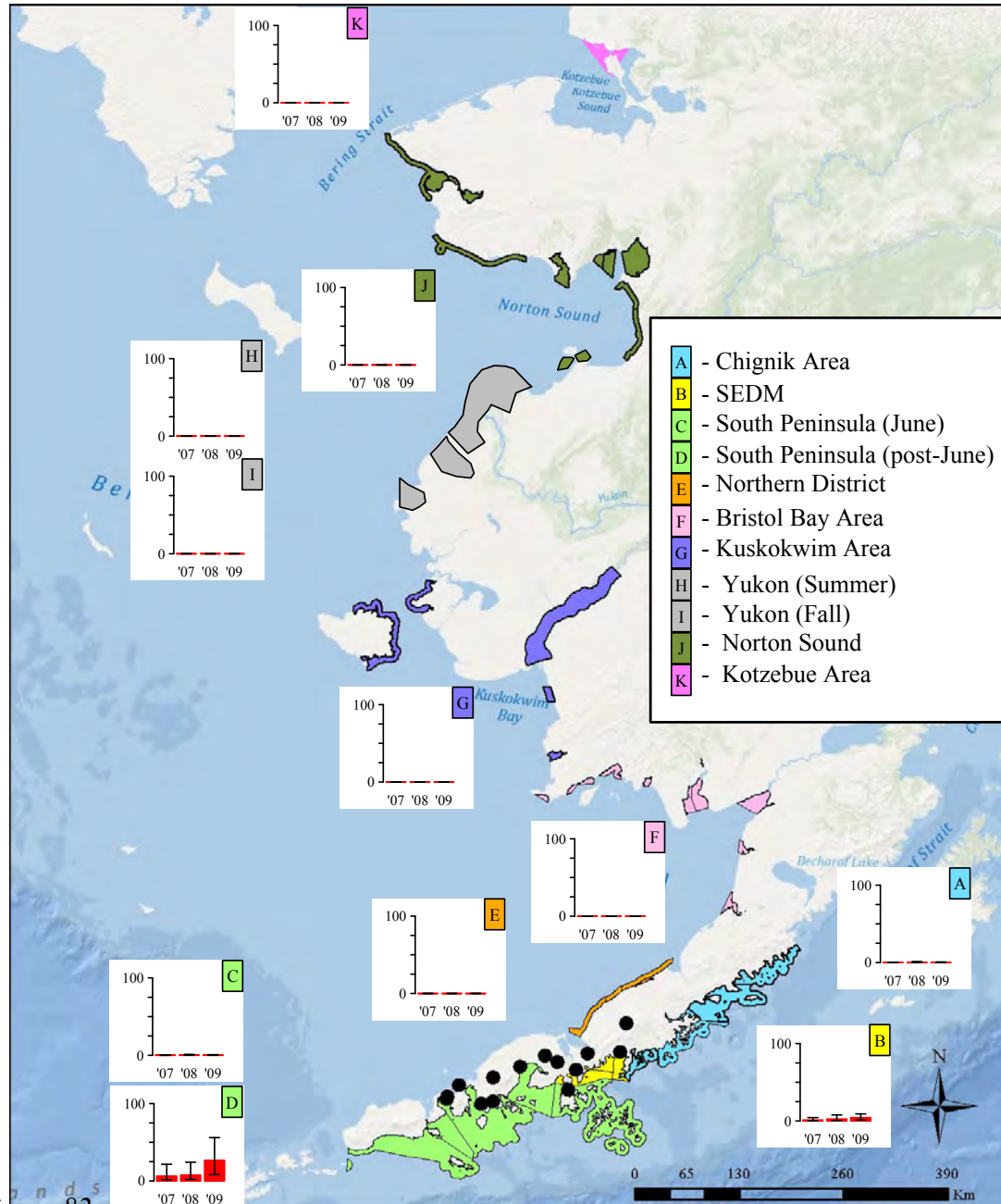
Proposal 211



South Peninsula stock: harvest rates



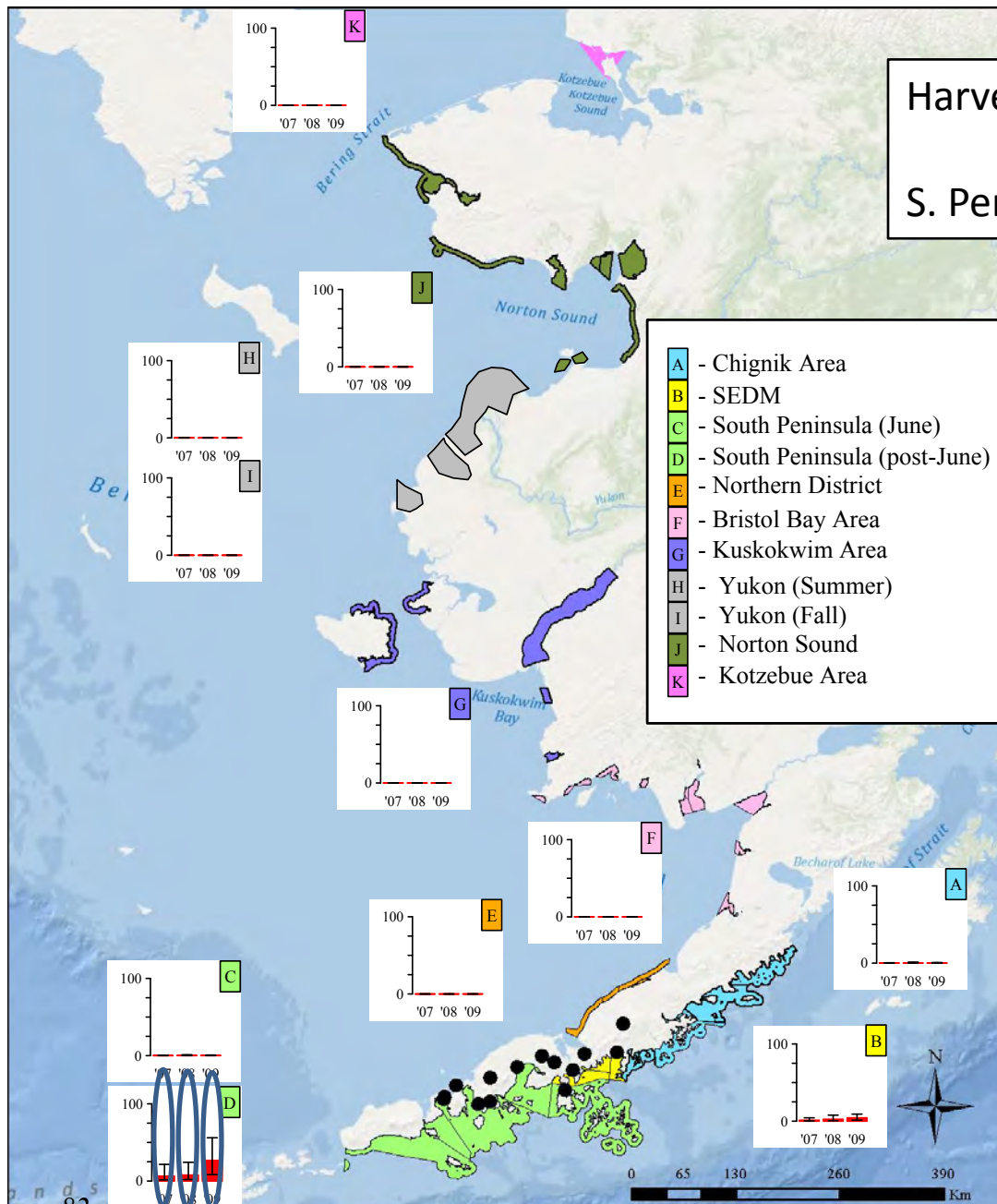
Proposal 211



South Peninsula stock: harvest rates



Proposal 211

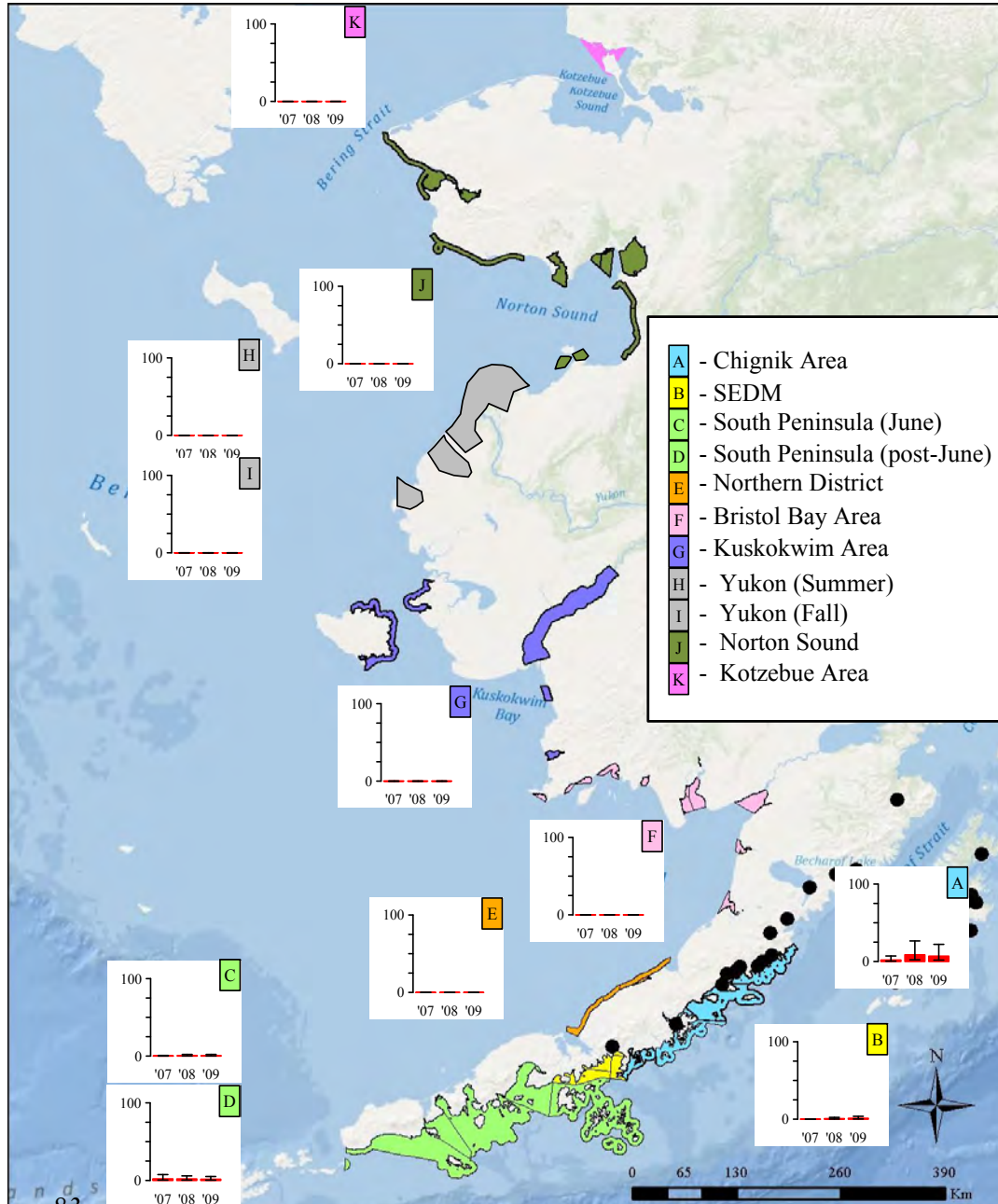


Harvest rate > 5%:
S. Pen (post-June)(6-27%)

Chignik/Kodiak stock: harvest rates



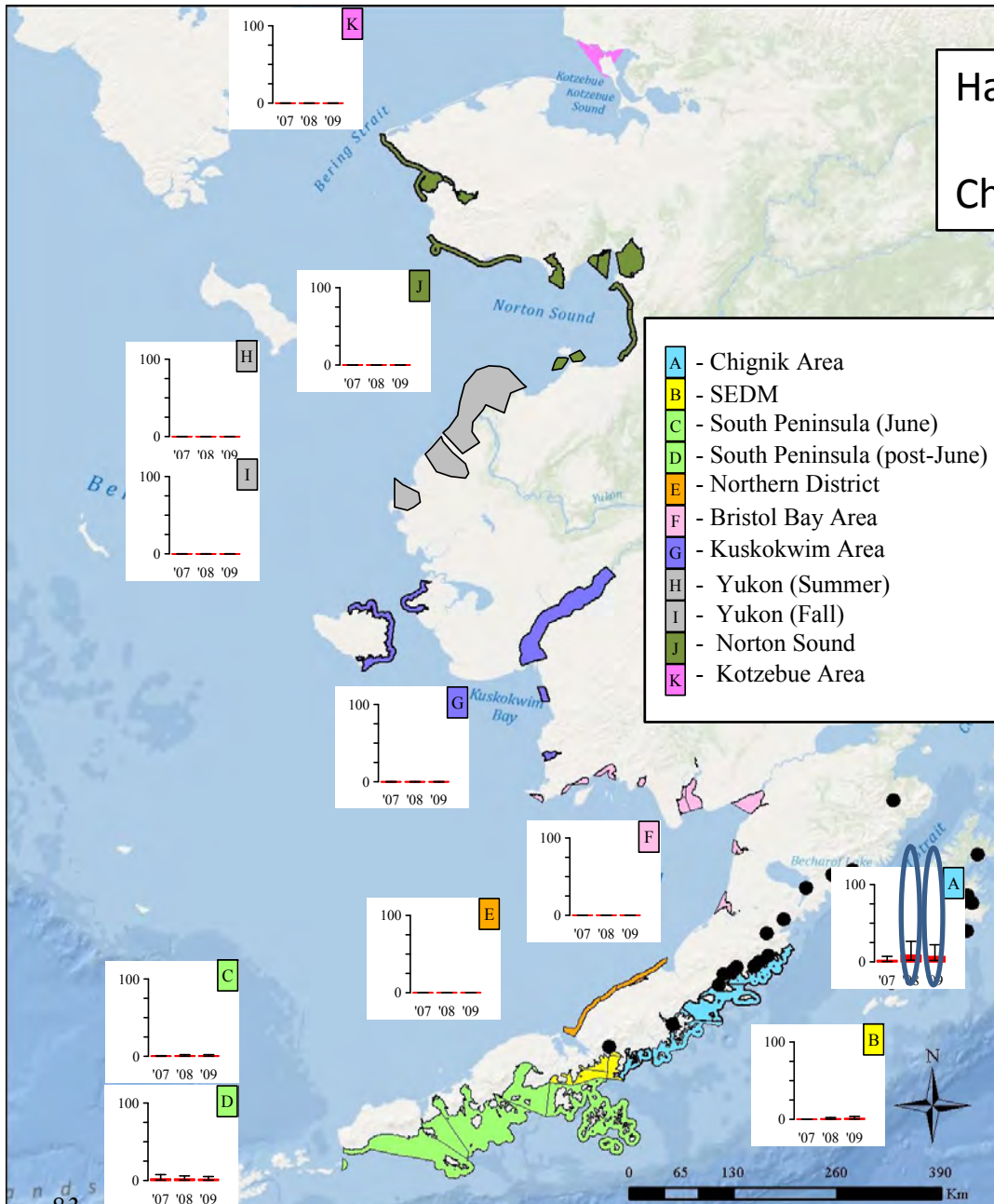
Proposal 211



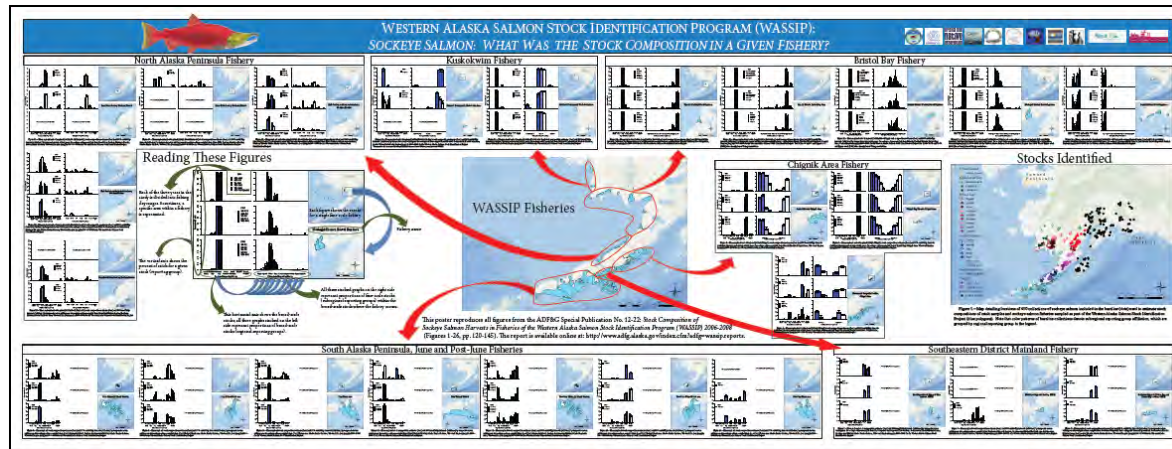
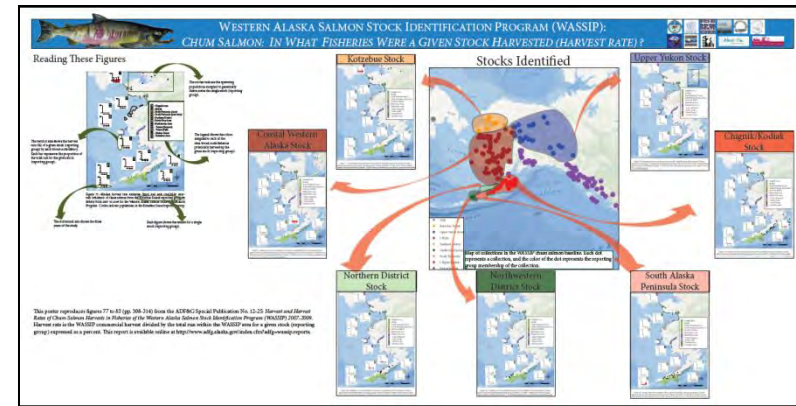
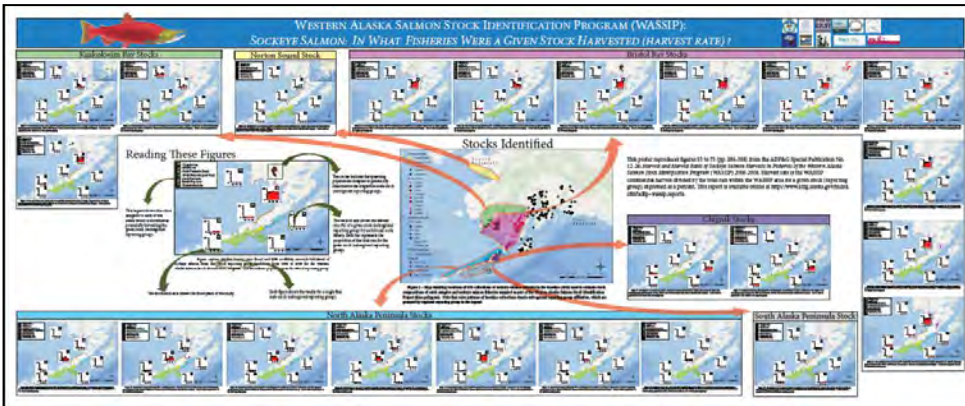
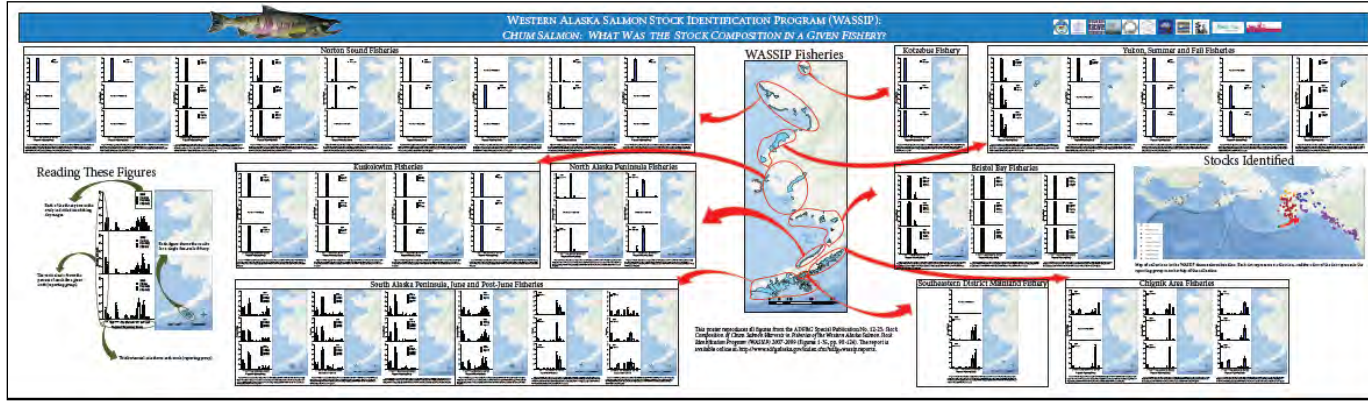
Chignik/Kodiak stock: harvest rates



Proposal 211



Posters of results are available



Reference slide for proposals

Proposal	Slide numbers
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174	21-42, 118-121
175	21-42, 118-121
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180	139-142, 147-48
181	43-46, 51-52, 139-142, 147-48
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203	61-62, 72-73
204	61-62, 72-73
205	61-73
206	61-73
208	61-73, 157-162
209	All sockeye slides
210	53-60, 139-142, 147-156
211	All slides

Summary

- A large collaborative effort in many ways
 - Number of organizations and people
 - Geographic extent and fisheries involved
 - Number of fish sampled and analyzed
 - Detail of results reported
- Information is publicly available
 - Website: <http://www.adfg.alaska.gov/index.cfm?adfg=wassip.reports>
 - Background information – agendas, meeting notes, technical documents
 - 9 final reports