

**APPENDIX I**  
**ADF&G COMMERCIAL FISHERIES EMERGENCY ORDER**

# **COMMERCIAL FISHERIES**

## **Emergency Order**

Under Authority of AS 16.05.060

**ALASKA DEPARTMENT  
OF FISH & GAME**

EMERGENCY ORDER No. 4-GF-01-10

Issued at: Kodiak, Alaska  
December 31, 2009

EFFECTIVE DATE: 12:01 a.m.  
Friday, January 1, 2010

Expiration Date: December 31, 2010  
unless superseded by subsequent  
emergency order

**EXPLANATION:** This emergency order defines commercial parallel groundfish fishing seasons in the Kodiak, Chignik, South Alaska Peninsula, Bering Sea-Aleutian Islands and Chukchi-Beaufort Areas. For these areas, except for the fisheries listed in 1-5 below, this emergency order adopts the groundfish seasons, bycatch limits, and allowable gear types that apply in the adjacent exclusive economic zone (EEZ).

Sector allocations in the EEZ, based on processing activity, will not be recognized in state waters. Adjacent federal waters opened to a gear type, whether to both catcher processor vessels and catcher vessels, or only one of those, will be considered open in state waters to both catcher vessels and catcher processor vessels until closed to all vessels using the designated gear type.

Inseason adjustments to federal seasons, bycatch limits, and allowable gear types will also apply in the parallel fisheries. Fishing seasons or bycatch limits may be modified from those published in the federal register by subsequent emergency order to ensure resource conservation or resource management consistent with the interest of the economy and general well being of the state.

Fishermen should take note of Steller sea lion protection areas in the parallel fisheries, including areas around sea lion haulouts and rookeries. Sea lion protection areas are set forth in federal regulations and are adopted for state waters as set forth in this emergency order. As a result, waters of Alaska that are described in the federal regulations implementing the Steller sea lion protection measures as closed to fishing or closed to gear types are so closed to all vessels, regardless of whether the vessel has a federal fishery permit.

The federal regulations implementing Steller sea lion protection measures for 2010 are posted on the National Marine Fisheries Service (NMFS) web site at <http://www.fakr.noaa.gov/sustainablefisheries/2003hrvstspecssl.htm> or available from NMFS offices in Alaska.

Fishermen should take note of vessel monitoring system requirements set forth in 5 AAC 28.087 Management Measures In Parallel Groundfish Fisheries For Protection Of Steller Sea Lions (c).

Commercial fishing gear is prohibited in certain areas to protect essential fish habitat (EFH). State-waters surrounded by EFH areas are closed by 5 AAC 39.167 Commercial Fishing Gear Prohibited In Waters Of Alaska Surrounding Essential Fish Habitat Areas. EFH areas are described in federal regulation at 50 C.F.R. 679.22, revised as of August 25, 2008.

Fishermen should also take note of seabird avoidance requirements set forth in 5 AAC 28.055 Seabird Avoidance Measures In Groundfish Fisheries. The state has adopted the federal seabird avoidance regulations, 50 C.F.R. 679.24 revised as of January 17, 2008, into state waters for longline vessels greater than 26 feet in length. The federal regulations are posted on the NMFS web site at <http://www.fakr.noaa.gov/protectedresources/seabirds/guide.htm>

Except as expressly stated, this emergency order does not supersede other groundfish provisions in Chapter 28 of the Alaska Administrative Code.

The following groundfish fisheries are not managed under parallel regulations. For the fisheries listed in 1 – 5 below, no parallel season is adopted because seasons and bycatch limits are established in this emergency order or will be established in a later emergency order.

1. The lingcod fishery;
2. The black and blue rockfish fishery in the Kodiak, Chignik, South Alaska Peninsula areas, and state waters of the Bering Sea-Aleutian Islands Area;
3. The dark rockfish fishery;
4. The state-waters season Pacific cod fishery in the Kodiak, Chignik, and South Alaska Peninsula areas, and the Aleutian Islands District of the Bering Sea-Aleutian Islands Area;
5. The state-waters sablefish fishery.

REGULATORY TEXT: Regulations 5 AAC 28.410, 5 AAC 28.510, 5 AAC 28.560, 5 AAC 28.610, 5 AAC 28.650 and 5 AAC 28.710 are superseded as follows, and 5 AAC 28 is amended by adding new sections and subsections, 5 AAC 28.450(e), 5 AAC 28.550, 5 AAC 28.590, and 5 AAC 28.750 to read as follows:

5 AAC 28.410. Fishing Seasons For Kodiak Area. (a) In 2010, except as otherwise provided in this section, groundfish may be taken in waters of the Kodiak Area only during federal fishing seasons

applicable to waters of the Exclusive Economic Zone (EEZ) adjacent to the waters of the Kodiak Area. All federally allowed gear types, bycatch limits and inseason adjustments of allowable gear types, bycatch limits and seasons as announced by the Regional Administrator, National Marine Fisheries Service, and published in the Federal Register, that are applicable to fishing in the adjacent EEZ also apply to fishing in the waters of the Kodiak Area, except that sector allocations in the EEZ based on processing activity will not be recognized in state waters. Adjacent federal waters opened to a gear type, whether to both catcher processor vessels and catcher vessels, or only one of those, will be considered open in state waters to both catcher vessels and catcher processor vessels until closed to all vessels using the designated gear type. This section does not supersede the nonpelagic trawl gear restrictions in 5 AAC 39.164.

- (b) Lingcod may be taken, in a directed fishery or as bycatch, only from July 1 through December 31.
- (c) Lingcod may only be taken as bycatch, not to exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel.
- (d) Black and blue rockfish may be taken, in a directed fishery or as bycatch from January 1 through December 31.
- (e) Black and blue rockfish taken as bycatch may not exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel, unless the vessel operator is operating in accordance with 5 AAC 28.406 (e) and 5 AAC 28.472 (b).
- (f) Dark rockfish may only be taken as bycatch. Bycatch of dark rockfish may not exceed 20% by weight of the directed groundfish species and directed halibut on board the vessel.
- (g) Sablefish may only be taken as bycatch, not to exceed 1% by weight of the directed groundfish species and directed halibut on board the vessel.
- (h) Unless otherwise specified, the maximum bycatch limit for any species of groundfish is 20% by weight of the directed groundfish species and directed halibut on board the vessel. This subsection does not supercede the mandatory retention rules for walleye pollock and Pacific cod as provided in 5 AAC 28.070 (e).
- (i) Pacific cod may be taken during a state-waters season as provided in 5 AAC 28.467.
- (j) Groundfish may be taken with non-pelagic trawl gear in the waters of king crab registration area K, described in 5 AAC 34.400, that are not closed under 5 AAC 39.164 (b) only from
  - (1) January 20 through April 30; and
  - (2) October 1 through November 30.

5 AAC 28.450 Closed Waters In The Kodiak Area (e) Waters of the Kodiak Area that are described in the federal regulations implementing the Steller sea lion protection measures as closed to fishing or closed to gear types are so closed to all vessels, regardless of whether the vessel has a federal fishing permit. In this section, "the federal regulations" means 50 CFR 679.22 and Tables 4,5,6 and 12 in 50 CFR, Part 679, as amended through December 31, 2006. The federal regulations are posted on the National Marine Fisheries Service web site at <http://www.fakr.noaa.gov/sustainablefisheries/2003hrvstspccsl.htm> or available from NMFS offices in Alaska.

5 AAC 28.510. Fishing Seasons For Chignik Area (a) In 2010, except as otherwise provided in this section, groundfish may be taken in waters of the Chignik Area only during federal fishing seasons applicable to waters of the Exclusive Economic Zone (EEZ) adjacent to the waters of the Chignik Area. All federally allowed gear types, bycatch limits, and inseason adjustments of allowable gear types, bycatch limits, and seasons as announced by the Regional Administrator, National Marine Fisheries Service, and published in the Federal Register, that are applicable to fishing in the adjacent EEZ also apply to fishing in the waters of the Chignik Area, except that sector allocations in the EEZ based on processing activity will not be recognized in state waters. Adjacent federal waters opened to a gear type, whether to both catcher processor vessels and catcher vessels, or only one of those, will be considered open in state waters to both catcher vessels and catcher processor vessels until closed to all vessels using the designated gear type. This section does not supersede the nonpelagic trawl gear restrictions in 5 AAC 39.164.

- (b) Lingcod may be taken in a directed fishery or as bycatch, only from July 1 through December 31.
- (c) Black and blue rockfish may be taken, in a directed fishery or as bycatch, from January 1 through December 31.
- (d) Black and blue rockfish taken as bycatch may not exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel.
- (e) Dark rockfish may only be taken as bycatch. Bycatch of dark rockfish may not exceed 20% by weight of the directed groundfish species and directed halibut on board the vessel.
- (f) Sablefish may only be taken as bycatch, not to exceed 1% by weight of the directed groundfish species and directed halibut on board the vessel.
- (g) Unless otherwise specified, the maximum bycatch limit for any species of groundfish is 20% by weight of the directed groundfish species and directed halibut on board the vessel. This subsection does not supercede the mandatory retention rules for walleye pollock and Pacific cod as provided in 5 AAC 28.070 (e).
- (h) Pacific cod may be taken during a state waters season as provided in 5 AAC 28.537.

Chapter 28 is amended by adding a new section: 5 AAC 28.550 Closed Waters In The Chignik Area  
(a) Waters of the Chignik Area that are described in the federal regulations implementing the Steller sea lion protection measures as closed to fishing or closed to gear types are so closed to all vessels, regardless of whether the vessel has a federal fishing permit. In this section, "the federal regulations" means 50 CFR 679.22 and Tables 4,5,6 and 12 in 50 CFR, Part 679, as amended through December 31, 2006. The federal regulations are posted on the National Marine Fisheries Service web site at <http://www.fakr.noaa.gov/sustainablefisheries/2003hrvstspecssl.htm> or available from NMFS offices in Alaska.

5 AAC 28.560. Fishing Seasons For South Alaska Peninsula Area. (a) In 2010, except as otherwise provided in this section, groundfish may be taken in waters of the South Alaska Peninsula Area only during federal fishing seasons applicable to waters of the Exclusive Economic Zone (EEZ) adjacent to the waters of the South Alaska Peninsula Area. All federally allowed gear types, bycatch limits, and inseason adjustments of allowable gear types, bycatch limits, and seasons as announced by the Regional Administrator, National Marine Fisheries Service, and published in the Federal Register, that are applicable to fishing in the adjacent EEZ also apply to fishing in the waters of the South

Alaska Peninsula Area, except that sector allocations in the EEZ based on processing activity will not be recognized in state waters. Adjacent federal waters opened to a gear type, whether to both catcher processor vessels and catcher vessels, or only one of those, will be considered open in state waters to both catcher vessels and catcher processor vessels until closed to all vessels using the designated gear type. This section does not supercede the nonpelagic trawl restrictions in 5 AAC 39.164.

- (b) Lingcod may be taken in a directed fishery or as bycatch, only from January 1 through December 31.
- (c) Black and blue rockfish may be taken, in a directed fishery or as bycatch, from January 1 through December 31.
- (d) Black and blue rockfish taken as bycatch may not exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel.
- (e) Dark rockfish may only be taken as bycatch. Bycatch of dark rockfish may not exceed 20% by weight of the directed groundfish species and directed halibut on board the vessel.
- (f) Sablefish may be taken in state-waters of the Western District of the South Alaska Peninsula Area, from 12:00 noon May 15 through November 15, unless closed earlier by emergency order. Sablefish bycatch is not allowed prior to or after the directed fishery.
- (g) Sablefish may only be taken as bycatch, in state-waters of the Eastern District of the South Alaska Peninsula Area, not to exceed 1% by weight of the directed groundfish species and directed halibut on board the vessel.
- (h) Unless otherwise specified, the maximum bycatch limit for any species of groundfish is 20% by weight of the directed groundfish species and directed halibut on board the vessel. This subsection does not supercede the mandatory retention rules for walleye pollock and Pacific cod as provided in 5 AAC 28.070 (e).
- (i) Pacific cod may be taken during a state-waters season as provided in 5 AAC 28.577.

Chapter 28 is amended by adding a new section: 5 AAC 28.590 Closed Waters In The South Alaska Peninsula Area (a) Waters of the South Alaska Peninsula Area that are described in the federal regulations implementing the Steller sea lion protection measures as closed to fishing or closed to gear types are so closed to all vessels, regardless of whether the vessel has a federal fishing permit. In this section, "the federal regulations" means 50 CFR 679.22 and Tables 4,5,6 and 12 in 50 CFR, Part 679, as amended through December 31, 2006. The federal regulations are posted on the National Marine Fisheries Service web site at <http://www.fakr.noaa.gov/sustainablefisheries/2003hrvstspecssl.htm> or available from NMFS offices in Alaska.

5 AAC 28.610. Fishing Seasons For Bering Sea-Aleutian Islands Area. (a) In 2010, except as otherwise provided in this section, groundfish may be taken in waters of the Bering Sea-Aleutian Islands Area only during federal fishing seasons applicable to waters of the Exclusive Economic Zone (EEZ) adjacent to the waters of the Bering Sea-Aleutian Islands Area. All federally allowed gear types, bycatch limits, and inseason adjustments of allowable gear types, bycatch limits and fishing seasons as announced by the Regional Administrator, National Marine Fisheries Service, and published in the Federal Register, that are applicable to fishing in the adjacent EEZ also apply

to fishing in the waters of the Bering Sea-Aleutian Islands Area, except that sector allocations in the EEZ based on processing activity will not be recognized in state waters. Adjacent federal waters opened to a gear type, whether to both catcher processor vessels and catcher vessels, or only one of those, will be considered open in state waters to both catcher vessels and catcher processor vessels until closed to all vessels using the designated gear type. This section does not supercede the non-pelagic trawl gear restrictions in 5 AAC 39.164.

- (b) Lingcod may be taken only as bycatch, from January 1 through December 31.
- (c) Black and blue rockfish may be taken in state-waters of the Aleutian Islands District of the Bering Sea-Aleutian Islands Area in a directed fishery or as bycatch, from January 1 through December 31.
- (d) Black and blue rockfish taken as bycatch may not exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel.
- (e) Dark rockfish may only be taken as bycatch. Bycatch of dark rockfish may not exceed 5% by weight of the directed groundfish species and directed halibut on board the vessel.
- (f) Sablefish in state-waters of the Aleutian Islands District of the Bering Sea-Aleutian Islands Area may be taken from 12:00 noon May 15 through November 15, unless closed earlier by emergency order. Sablefish bycatch is not allowed prior to or after the directed fishery. In the Bering Sea District of the Bering Sea-Aleutian Islands Area there is no open season for directed sablefish fishing.
- (g) Pacific cod may be taken during a state-waters season as provided in 5 AAC 28.647.
- (h) Pacific cod and rockfish may be taken during the parallel fishery season in state-waters of Sitkin Sound of Adak Island as described in 5 AAC 28.690 (a) only as specified in 5 AAC 28.629 (d).
- (i) Pacific cod and rockfish may be taken during the parallel fishery season from May 1 until September 15 in state-waters of Adak Island as described in 5 AAC 28.690 (b) only as specified in 5 AAC 28.629 (e).
- (j) Pacific cod may not be taken during the parallel Pacific cod fishery by vessels longer than 58 feet in length.
- (k) Unless otherwise specified, the maximum bycatch limit for any species of groundfish is 20% by weight of the directed groundfish species and directed halibut on board the vessel. This subsection does not supercede the mandatory retention rules for walleye pollock and Pacific cod as provided in 5 AAC 28.070 (e).

5 AAC 28.650 Closed Waters In The Bering Sea-Aleutian Islands Area (b) Waters of Bering Sea-Aleutian Islands Area that are described in the federal regulations implementing the Steller sea lion protection measures as closed to fishing or closed to gear types are so closed to all vessels, regardless of whether the vessel has a federal fishing permit. In this section, "the federal regulations" means 50 CFR 679.22 and Tables 4,5,6 and 12 in 50 CFR, Part 679, as amended through December 31, 2006. The federal regulations are posted on the National Marine Fisheries Service web site at <http://www.fakr.noaa.gov/sustainablefisheries/2003hrvstspecssl.htm> or available from NMFS offices in Alaska.

5 AAC 28.710. Fishing Seasons For Chukchi-Beaufort Area. (a) In 2010, there is no open groundfish season.

Chapter 28 is amended by adding a new section: 5 AAC 28.750 Closed Waters In The Chukchi-Beaufort Area

- (a) Waters of the Chukchi-Beaufort Area are closed to all commercial groundfish fishing.

Denby Lloyd, Commissioner  
Alaska Department of Fish and Game

by Delegation to:

Wayne Donaldson  
Regional Groundfish Management Biologist

**JUSTIFICATION:** The Alaska Board of Fisheries has established fisheries for a limited number of groundfish species, and has authorized the commissioner of the Alaska Department of Fish and Game (ADF&G) to open seasons by emergency order, during which bycatch limits, area closures, and gear restrictions may be specified; see, *e.g.*, 5 AAC 28.070, .087, .467. The ADF&G does not have independent programs currently in place to ensure sustained-yield management for all groundfish species in Alaska's territorial waters of the Kodiak, Chignik, South Alaska Peninsula, Bering Sea-Aleutian Islands and Chukchi-Beaufort areas. Groundfish fisheries in these areas often target the same stocks harvested under federal regulations in adjacent waters of the Exclusive Economic Zone (EEZ).

To ensure conservation of the groundfish resources located in territorial waters, the ADF&G generally depends on the fishing season regulations established for the adjacent waters of the EEZ and administered by the National Marine Fisheries Service. The federal regulations allow for inseason adjustments of fishing seasons, closed waters, bycatch and gear to conserve the affected stocks.

To ensure compatible management of the stocks not independently managed by the state, ADF&G would need to issue emergency orders to correspond to all changes made by the federal managers. It is not practical for the department to issue corresponding emergency orders, in a timely manner, to ensure that compatible management is maintained. This would lead to confusion within the fishing industry.

To ensure sustained yield management of groundfish stocks, promote an orderly fishery, and facilitate enforcement of regulations, this emergency order modifies fishing seasons, allowable gear types, closed waters and bycatch limits in the territorial waters of the Kodiak, Chignik, South Alaska Peninsula, Bering Sea-Aleutian Islands and Chukchi-Beaufort Areas to correspond with federal fishery seasons, allowable gear types, closed waters and bycatch limits or inseason adjustments set for the adjacent waters of the EEZ, except for those fisheries independently managed by the state. However, based on the Alaska Supreme Court's decision in Grunert, Alaska Board of Fisheries and the ADF&G may not recognize federal sectors in state waters during parallel groundfish fisheries based on processing type.

The state has also adopted protection measures for Steller sea lions in the parallel Pacific cod, Atka mackerel and walleye pollock fisheries as provided for in 5 AAC 28.087.

Through subsequent emergency orders the department may still specify different seasons for groundfish species within these areas to ensure resource conservation or management consistent with the economy and general well being of the state.

Existing federal regulations do not include management measures for lingcod and dark rockfish or black and blue rockfish in the Gulf of Alaska and territorial waters of the Aleutian Islands and Bering Sea. State regulations will apply for these species in all waters of Alaska's territorial sea and the specified adjacent waters of the EEZ, as provided in 5 AAC 28.010 Application of groundfish regulations.

Lingcod bycatch is restricted to 5% in the Kodiak Area because of the potential for large lingcod bycatch associated with trawl landings. The rockfish and sablefish bycatch limits will coincide with the bycatch limit allowed by the Regional Administrator, National Marine Fisheries Service, except for the Aleutian Islands state-waters sablefish fishery.

The Chukchi-Beaufort Management Area is closed to all commercial fishing for groundfish because there is a lack of information on groundfish resources in this area. NMFS has closed all waters of the EEZ adjacent to the Chukchi-Beaufort Management Area to all commercial groundfish fishing under the Arctic Fishery Management Plan.

**DISTRIBUTION:** This emergency order was distributed to those individuals and organizations maintained on a list in the Westward Region shellfish office, 211 Mission Road, Kodiak, Alaska.

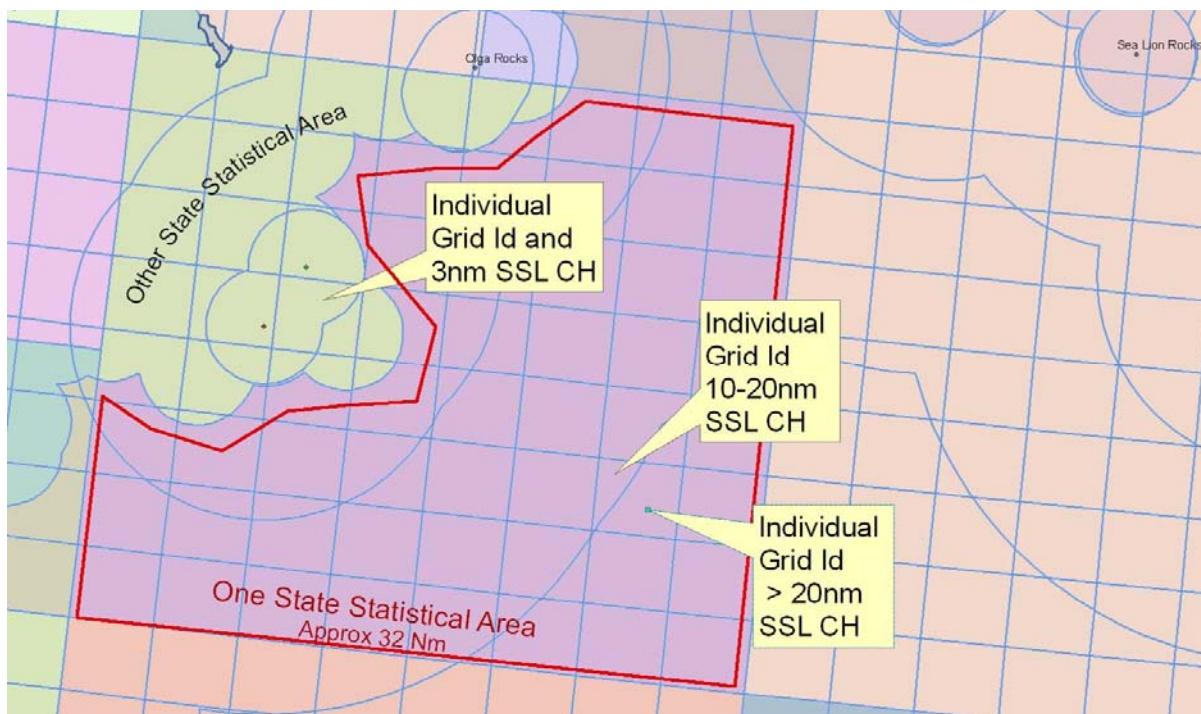
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**APPENDIX II**  
**VESSEL MONITORING SYSTEM ENABLED**  
**CATCH-IN-AREAS DATABASE**

## Appendix 2: VMS-Observer Enabled Catch-In-Areas Database

In 2007, NMFS/Alaska Region began developing a fisheries harvest database that would integrate data acquired from onboard observers and data on vessel movements acquired by satellite through the Vessel Monitoring System (VMS). This VMS-Observer Enabled Catch-In-Areas (VOE-CIA) database is designed to increase the spatial resolution of the Catch Accounting System for both the observed and unobserved vessel fleet and thus to facilitate more accurate analysis of fisheries management issues.

The VOE-CIA database integrates catch data from the Catch Accounting System (which has the spatial resolution of a NMFS Reporting Area) into a database that resolves the GIS data into polygons with areas of approximately seven kilometers. In an unrestricted area, sixty four grid IDs fit inside one state statistical area. However, a given seven-kilometer polygon may be further divided into smaller polygons by the boundary of state statistical areas, the boundary of state and federal waters, or by the boundary of Steller sea lion critical habitat (broken out at 3, 10, and 20 nautical miles from one of 154 Steller sea lion rookeries or haulouts). Where confidentiality needs to be protected, a seven-kilometer polygon may be grouped with others into 20km polygons. Each polygon (the exact size of which will vary with latitude) and its subparts will have a distinct grid ID.



Splitting the Catch Accounting data from NMFS Reporting Areas into these grid IDs requires an iterative and ordered process; no single step can capture all the data. To start, a record is reported and entered into the database, and a unique transaction ID is created for that record. A record is considered either a single haul for an observed vessel, a single fishing trip for an unobserved catcher vessel, or a single week—as designated by the week-ending-date—for an unobserved catcher processor (at present, this is the finest temporal catch resolution currently

available; in 2009, however, catcher processors will begin reporting at a finer temporal resolution).

After the transaction ID is established for that record, one of the following six steps is then used to incorporate the record into the Catch-in-Areas database. (Note that the following tables and figures use 2008 data solely for purposes of illustrating the operations of the database.)

- 1) The first step in the process coordinates the date and time of observed deployment and retrieval of gear with the vessel's VMS points that are within the same observed date and time. This 'fixes' the VMS points associated with an observed haul.

VMS data are designed to transmit position reports every 30 minutes. It is probable that the process could miss the first and last VMS point by only a few minutes since it is based on Observed times. Therefore, a trackline is also drawn between the observed and deployed locations. A distinct set of grid IDs for both the VMS and Observer points are coordinated and associated.

The associated grid IDs from the steps above are then attributed an equal amount of the catch for that record. Hence, a record that has eight grid IDs associated with it will receive 12.50% of the catch for that record from Catch Accounting.

In 2008, 827,140 tons or 47.4% of the catch was matched in Step 1; and 52.6% of the catch remained to be matched in the processes that follow.

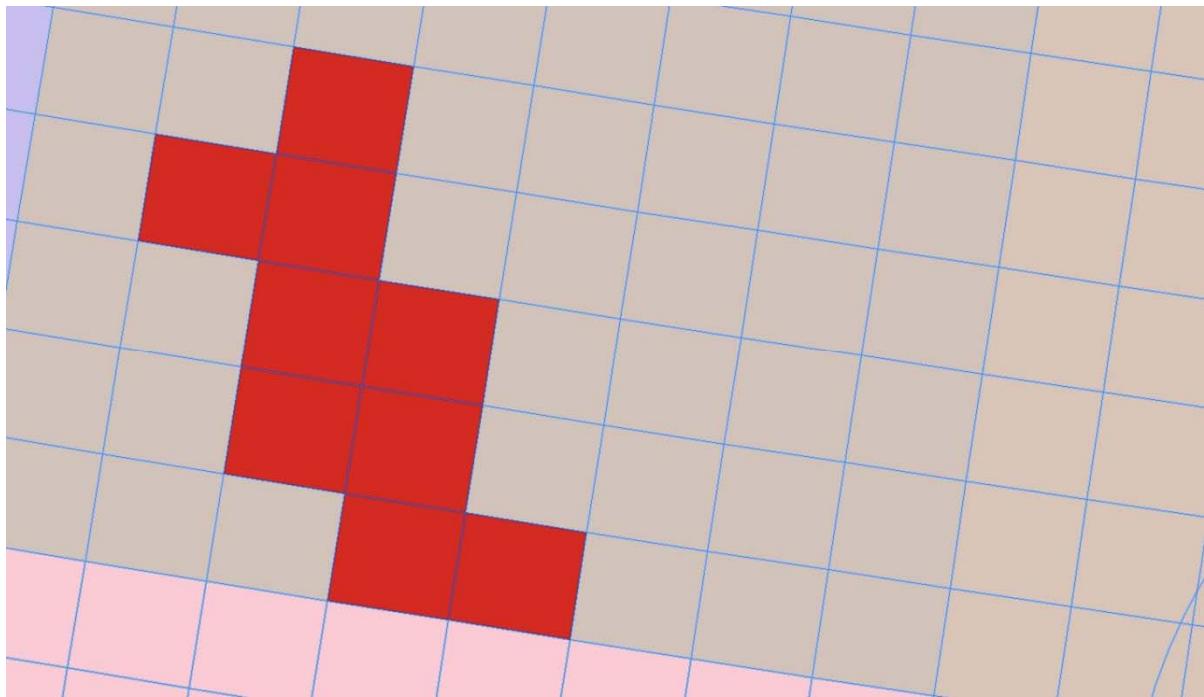
The tables below indicate average number of Grid IDs that were captured in Step 1: VMS-Observer by Date/Time matching process. The average is based on individual hauls shown by each row in the table. The data is shown in three base groups: FMP, FMP and harvest sector, and, FMP, harvest sector, and target fishery.

| FMP | Avg#Grid IDs / Grid |
|-----|---------------------|
| AI  | 6                   |
| BS  | 8                   |
| GOA | 6                   |

| FMP | Harvest Sector | Avg#Grid IDs per Grid |
|-----|----------------|-----------------------|
| AI  | CP             | 7                     |
| AI  | CV             | 12                    |
| BS  | CP             | 7                     |
| BS  | CV             | 16                    |
| GOA | CP             | 6                     |
| GOA | CV             | 5                     |

| FMP | Harvest Sector | Example Species Code | Avg#Grid IDs per Grid |
|-----|----------------|----------------------|-----------------------|
| AI  | CP             | Pcod                 | 7                     |
| AI  | CP             | Rock                 | 3                     |
| AI  | CV             | Pcod                 | 13                    |
| AI  | CV             | Rock                 | 5                     |
| BS  | CP             | Pcod                 | 9                     |
| BS  | CP             | Rock                 | 4                     |
| BS  | CP             | Plck                 | 5                     |
| BS  | CV             | Plck                 | 17                    |
| GOA | CP             | Pcod                 | 7                     |
| GOA | CP             | Rock                 | 4                     |
| GOA | CV             | Rock                 | 4                     |

**A graphic illustrating captured Observed grid IDs (red - highlighted blocks below) from Bering Sea using a combination of VMS and Observer data.**



- 2) The next step uses observer data that were not matched from Step 1. Some vessels are unmatched from Step-1 because transponder IDs may not be directly associated with a vessel ID for a given trip: for example, a vessel may lend a VMS transponder to another vessel, but the database fails to be updated to reflect that before catch is assigned to a trip/haul.

As in the observer data process above, a line is drawn from the observer deployment location to the retrieved location, and the associated grid IDs are identified for that trackline. Catch is equally apportioned between the grid IDs for that record.

In 2008, 219,709 tons or 12.59% of the catch was matched in Step 2; and 40.01% of the catch remained to be matched.

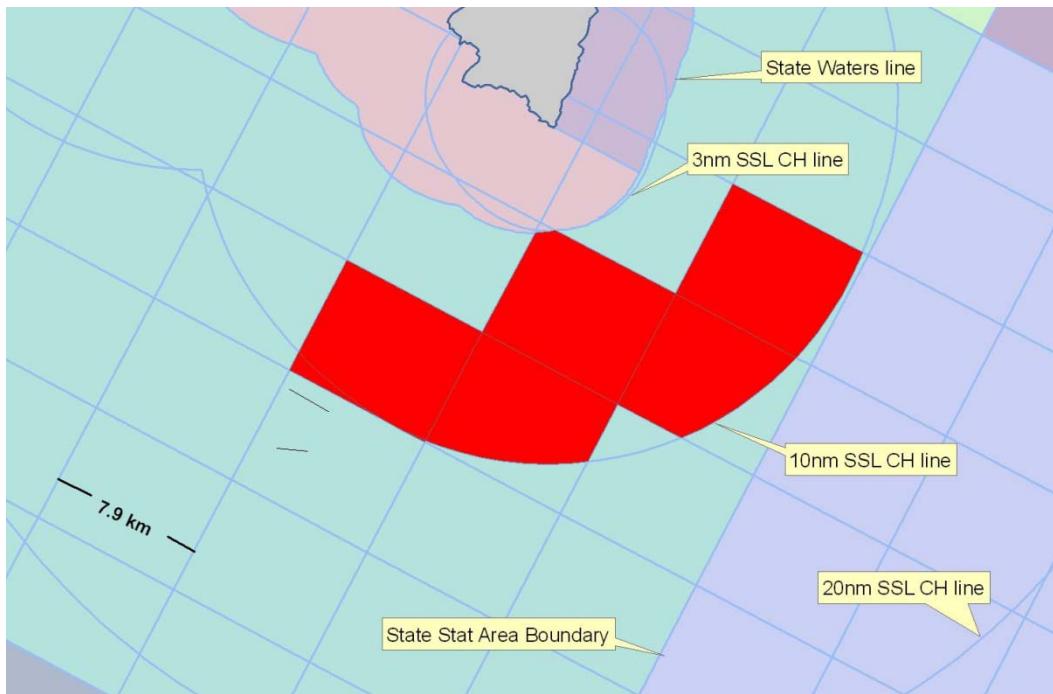
The tables below indicate average number of Grid IDs that were captured in Step 2: an individual observed haul trackline from observed deploy location to the retrieve location. The average is based on individual hauls shown by each row in the table. The data is shown in three base groups: FMP, FMP and harvest sector, and, FMP, harvest sector, and target fishery.

| FMP | Avg#Grid IDs |
|-----|--------------|
| AI  | 6            |
| BS  | 8            |
| GOA | 5            |

| FMP | Harvest Sector | Avg#Grid IDs |
|-----|----------------|--------------|
| AI  | CP             | 7            |
| AI  | CV             | 8            |
| BS  | CP             | 7            |
| BS  | CV             | 16           |
| GOA | CP             | 5            |
| GOA | CV             | 5            |

| FMP | Harvest Sector | Example Species Code | Avg#Grid IDs |
|-----|----------------|----------------------|--------------|
| AI  | CP             | Pcod                 | 8            |
| AI  | CP             | Rock                 | 3            |
| AI  | CV             | Pcod                 | 9            |
| AI  | CV             | Rock                 | 6            |
| BS  | CP             | Pcod                 | 9            |
| BS  | CP             | Rock                 | 4            |
| BS  | CP             | Plck                 | 7            |
| BS  | CV             | Plck                 | 16           |
| GOA | CP             | Pcod                 | 7            |
| GOA | CP             | Rock                 | 4            |
| GOA | CV             | Rock                 | 5            |

**A graphic illustrating captured Observed grid IDs (red - highlighted blocks below) that were not captured in Step 1.**



- 3) The next step uses VMS data to capture an individual record for unobserved catcher vessels. In order to capture a vessel ‘fishing,’ four criteria must be in place: 1) A vessel must be operating between .9 knots and 4.1 knots; 2) a vessel must not be in an area known not to be a fishing area, e.g., very near ports; 3) a vessel must be operating inside at least one of the state statistical areas reported on its fish ticket; and 4) the date of the VMS point must match the date range on the fish ticket.

We use the vessel’s VMS points to calculate vessel speed for the database. In a GIS Albers conic coordinate system, we find the meters traveled using the Pythagorean Theorem and divide that by the time between one VMS point and the next.

A catch record is weighted by how many VMS points are associated with a particular grid ID that met the four criteria above. For example, a vessel transiting through Unimak Pass: the vessel has to slow down to fishing speed (greater than .9 knots and less than 4.1 knots), is not in an area known not to be a fishing area, is inside at least one of the state statistical areas reported for the vessel, and has a trip time within the date range on the fish ticket. A single ping will be associated with that grid ID even though the vessel may not have been fishing. But a few hours later the vessel gets to its fishing grounds and continues to fish for the next two days. The vessel’s trip time was three days. For two days (48 hours) the vessel met all of four of the criteria for fishing.

The single grid ID associated with Unimak Pass receives 1/48<sup>th</sup> (2.08%) of the catch. If the vessel spends a full day in one grid ID, that grid ID gets nearly 50% of the catch. If the vessel then spends the entire next fishing day equally in eight other grid IDs, each of

those eight grid IDs gets 6.25% of the catch. It should be noted that this is a simple example and chances are that a vessel will not meet all four criteria for two full days.

A final adjustment is made after the catch is weighted. Consider a catcher vessel targeting flatfish in the GOA and which uses its MRA to top off with Pacific cod on the way back to port. On the fish ticket the vessel is reported to have been in one state statistical area with a catch composed of mostly flatfish and in another state statistical area with a catch of mostly Pacific cod. We do not reapportion the total amount of the catch; we only adjust the species composition in the grid ID associated with state statistical areas. This algorithm will not change the overall species composition or the overall catch weight associated with a grid ID.

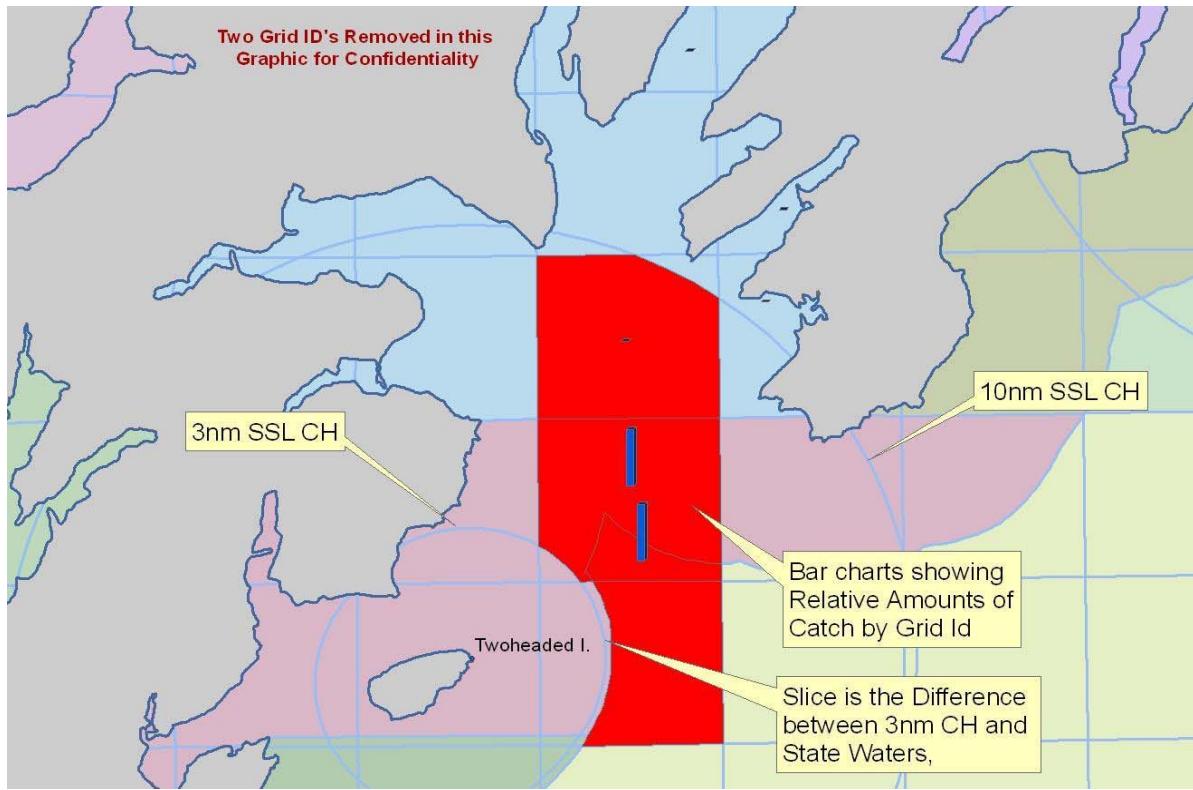
In 2008, 569,074 tons or 32.65% of the catch was matched in Step 3; and 7.35% of the catch remained to be matched in the following steps.

**The tables below indicate average number of grid IDs that were captured in Step 3. The four criteria for the catcher vessel: speed, trip dates, fishing area, and state stat area. The average of captured grid IDs is based on individual trips. The data is shown in two base groups: FMP and FMP and target fishery.**

| FMP | Avg#Grid IDs |
|-----|--------------|
| AI  | 15           |
| BS  | 19           |
| GOA | 10           |

| FMP | Harvest Sector | Example Species Code | Avg#Grid IDs |
|-----|----------------|----------------------|--------------|
| AI  | CV             | Pcod                 | 9            |
| AI  | CV             | Rock                 | 14           |
| AI  | CV             | Plck                 | 7            |
| BS  | CV             | Pcod                 | 17           |
| BS  | CV             | Plck                 | 20           |
| GOA | CV             | Pcod                 | 8            |
| GOA | CV             | Rock                 | 9            |
| GOA | CV             | Plck                 | 7            |

**A graphic illustrating a catcher vessel's trip and the grid IDs captured using the criteria outlined in Step 3. Blue bar charts show relative amounts of catch distribution by grid ID. Captured grid IDs shown in red - highlighted blocks below**



- 4) Some catcher vessels may not accurately report their state statistical areas. In step 4, we drop the requirement for state statistical areas and replace it with NMFS Reporting Areas. The four criteria become: 1) a vessel must be operating between .9 knots and 4.1 knots; 2) a vessel must not be in an area known not to be a fishing area, e.g., very near ports; 3) a vessel is operating inside their reported NMFS Reporting Areas; and 4) the date of the VMS point must match the date range on their fish ticket.

As with Step 3, this catch is weighted as to how many VMS fishing points are associated with a Grid ID. No reapportionment of catch composition is completed in this step.

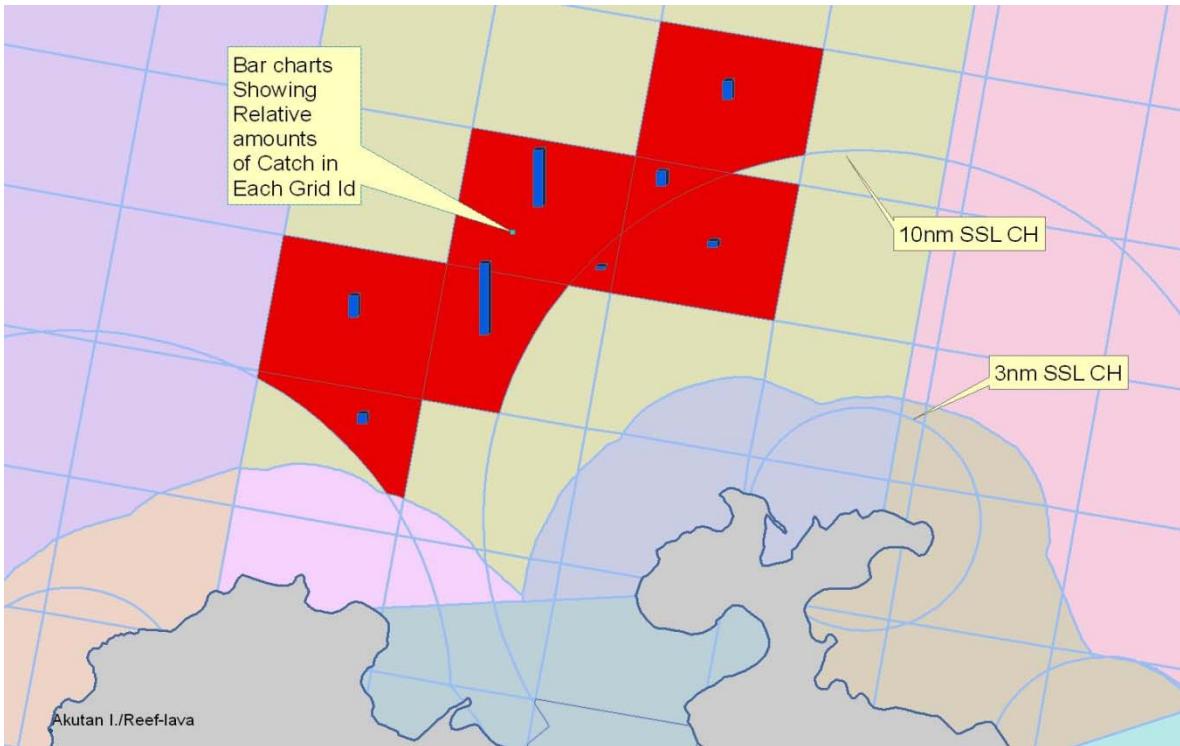
In 2008, 20,683 tons or 1.19% of the catch was matched in Step 4.; and 6.17% of the catch remained to be matched in the following steps.

The tables below indicate average number of Grid IDs that were captured in Step 4. The 4 criteria for the catcher vessel: speed, dates, fishing area, NMFS Reporting Areas. The average is based on individual trips. The data is shown in two base groups: FMP and FMP and target fishery.

| FMP | Avg#Grid IDs |
|-----|--------------|
| AI  | 11           |
| BS  | 13           |
| GOA | 8            |

| FMP | Harvest Sector | Example Species Code | Avg#Grid IDs |
|-----|----------------|----------------------|--------------|
| AI  | CV             | Pcod                 | 6            |
| BS  | CV             | Pcod                 | 10           |
| BS  | CV             | Plck                 | 16           |
| GOA | CV             | Pcod                 | 8            |
| GOA | CV             | Rock                 | 7            |
| GOA | CV             | Plck                 | 8            |

A graphic illustrating a catcher vessel's trip. Grid IDs captured using the criteria outlined in Step 4. Blue bar charts showing relative amounts of catch based on time the vessel spent inside Grid IDs. Captured grid IDs shown in red - highlighted blocks below.



- 5) Step 5 addresses unobserved catcher processors who report weekly on their production. Like an unobserved catcher vessel without a state statistical area, four criteria must be met: 1) A vessel must be operating between .9 knots and 4.1 knots; 2) a vessel must not be in an area known not to be a fishing area, e.g., very near ports; 3) a vessel must be operating inside its reported NMFS Reporting Areas; and 4) the date of the VMS point must match the week ending date reported on the catcher processor's weekly production report. In 2009 with additional reporting for unobserved catch processors, the temporal resolution will increase and hence the data for this step. Additionally, some catcher vessels are captured in this step by week ending date rather than by their reported trip dates.

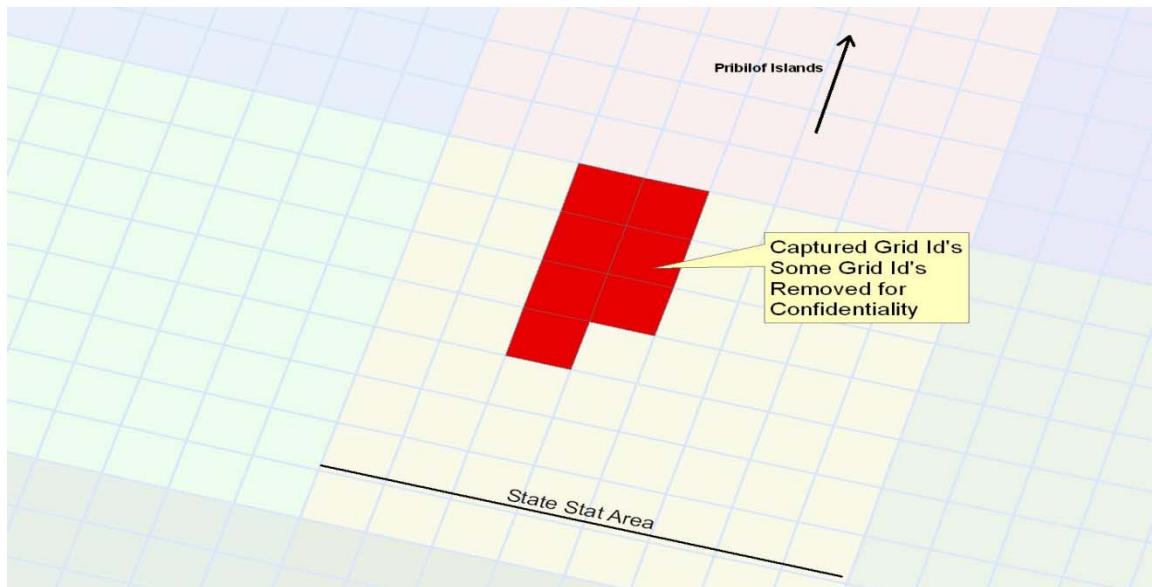
The tables below indicate average number of grid IDs that were captured in Step 5: The four criteria for these unmatched unobserved vessels: speed, week ending date (Saturday), fishing area, and NMFS Reporting Area. The average is based on a week ending date. The data is shown in three base groups: FMP, FMP and harvest sector, and FMP, harvest sector, and target fishery.

| FMP | Avg#Grid<br>IDs |
|-----|-----------------|
| AI  | 3               |
| BS  | 4               |
| GOA | 3               |

| FMP | Harvest<br>Sector | Avg#Grid<br>IDs |
|-----|-------------------|-----------------|
| AI  | CP                | 3               |
| AI  | CV                | 2               |
| BS  | CP                | 4               |
| BS  | CV                | 2               |
| GOA | CP                | 3               |
| GOA | CV                | 2               |

| FMP | Harvest<br>Sector | Example<br>Species<br>Code | Avg#Gri<br>d IDs |
|-----|-------------------|----------------------------|------------------|
| AI  | CP                | Pcod                       | 3                |
| AI  | CV                | Pcod                       | 2                |
| AI  | CV                | Plck                       | 2                |
| BS  | CP                | Pcod                       | 4                |
| BS  | CP                | Plck                       | 3                |
| BS  | CV                | Pcod                       | 2                |
| BS  | CV                | Plck                       | 2                |
| GOA | CP                | Pcod                       | 3                |
| GOA | CP                | Rock                       | 2                |
| GOA | CV                | Pcod                       | 2                |
| GOA | CV                | Rock                       | 2                |
| GOA | CV                | Plck                       | 2                |

**A graphic illustrating an unobserved weekly trip. These grid IDs were captured using the criteria outlined in Step 5. Captured grid IDs shown in red - highlighted blocks below. Some grid IDs were removed for confidentiality.**



Steps 1 through 5 above capture 96.13% (for the 2008 data) of the catch from Catch Accounting inside one of the seven-kilometer grid IDs. The final steps, called Average Vessel, match catch from the previously matched vessels (from steps 1 – 5) to the unmatched vessel records. All but 604 tons (for the 2008 data) of the unmatched catch are matched using this final process.

- 6) The Average Vessel algorithm groups all previously matched vessels operating in the groupings shown below, and then apportions catch equally to the associated grid IDs for the unmatched records. The first grouping includes vessel ID. Vessel ID is included with week ending date, NMFS Reporting Area, Harvest Sector, Gear, Target, etc., as we assume the best extrapolation is on a vessel operating as itself. We have seen this grouping to be effective when a catcher vessel with multiple trips in a single week may not be captured during a single trip due to a reporting or recording error.

The following groupings, shown in the table below, were coordinated by such aspects as Management Program Code, Harvest Sector, NMFS Reporting Area, Gear, Target, and Week Ending Date. After matches for all those groupings are found (between the unmatched records in catch accounting and the previously match records in Catch-In-Areas), the grid IDs are compiled for those matched records and the catch is evenly divided among those grid IDs.

After an average vessel record is apportioned to a set of grid IDs, a transaction ID is created and that vessel record is removed from further matching. The groupings for Average Vessel are then slightly liberalized, and the next groupings are formed, matched and apportioned to grid IDs. As noted above, these steps capture greater than 99.98% of

the catch. Catch that is not captured is often groundfish caught by non-federally permitted groundfish catcher vessels.

### **Match-Groupings for the Iterative Average Vessel Extrapolation Algorithm.**

|                  |               |             |              |             |              |
|------------------|---------------|-------------|--------------|-------------|--------------|
| • Mgt_Prog_Code  | HarvestSector | Rptng Area  | Target, Gear | WeekEndDate | Vessel ID    |
| • Harvest Sector | NMFS Area     | Gear        | Target       | WeekEndDate | Processor ID |
| • Mgt_Prog_Code  | HarvestSector | NMFS Area   | Gear         | Target      | WeekEndDate  |
| • Mgt_Prog_Code  | HarvestSector | NMFS Area   | Gear         | WeekEndDate | Target       |
| • Mgt_Prog_Code  | NMFS Area     | Gear        | Target       | WeekEndDate |              |
| • Harvest Sector | NMFS Area     | Target      | WeekEndDate  |             |              |
| • Harvest Sector | NMFS Area     | Gear        | WeekEndDate  |             |              |
| • NMFS Area      | Gear          | Target      | WeekEndDate  |             |              |
| • NMFS Area      | Target        | WeekEndDate |              |             |              |
| • NMFS Area      | Gear          | WeekEndDate |              |             |              |
| • NMFS Area      | Gear          | Target      | Month        | Year        |              |
| • NMFS Area      | Target        | Month       | Year         |             |              |
| • NMFS Area      | Gear          | Month       | Year         |             |              |
| • FMPAreaCode    | Gear          | Target      | WeekEndDate  |             |              |
| • FMPAreaCode    | Target        | WeekEndDate |              |             |              |
| • FMPAreaCode    | Gear          | WeekEndDate |              |             |              |
| • FMPAreaCode    | Gear          | Target      | Month        | Year        |              |
| • FMPAreaCode    | Target        | Month       | Year         |             |              |
| • FMPAreaCode    | Gear          | Month       | Year         |             |              |

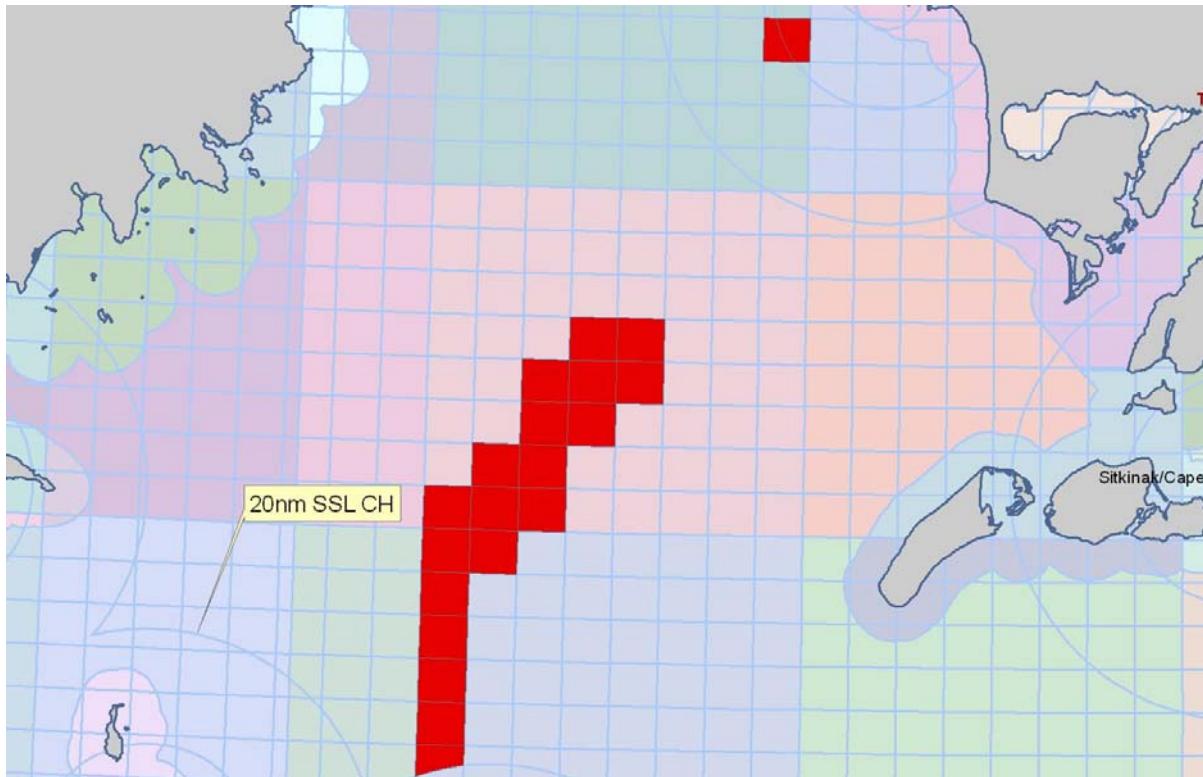
**For clarity, the following summary tables aggregate all 19 levels of the Average Vessel extrapolation algorithm into a single set of tables.**

| FMP | Avg#Grid IDs |
|-----|--------------|
| AI  | 33           |
| BS  | 32           |
| GOA | 28           |

| FMP | Harvest Sector | Avg#Grid IDs |
|-----|----------------|--------------|
| AI  | CP             | 36           |
| AI  | CV             | 23           |
| BS  | CP             | 38           |
| BS  | CV             | 30           |
| GOA | CP             | 33           |
| GOA | CV             | 28           |

| FMP | Harvest Sector | Example Species Code | Avg#Grid IDs |
|-----|----------------|----------------------|--------------|
| AI  | CP             | Pcod                 | 36           |
| AI  | CV             | Pcod                 | 23           |
| BS  | CP             | Pcod                 | 39           |
| BS  | CP             | Plck                 | 24           |
| BS  | CV             | Pcod                 | 33           |
| BS  | CV             | Plck                 | 30           |
| GOA | CP             | Pcod                 | 34           |
| GOA | CP             | Rock                 | 27           |
| GOA | CV             | Pcod                 | 28           |
| GOA | CV             | Rock                 | 28           |
| GOA | CV             | Pcod                 | 13           |
| GOA | CV             | Plck                 | 2            |

This graphic illustrating the Average Vessel Extrapolation Algorithm grid id's that was captured, shown in red - highlighted blocks below. This Average Vessel was grouped and matched on a vessel or group of vessels with the same Harvest Sector, NMFS Reporting Area, Gear Type, Target, and Week Ending Date.



The table below illustrates the amount of catch by each matching method.

| Analysis based on 2008                              |                  |                  |                      |
|---|------------------|------------------|----------------------|
| Matching Method                                     | Tons Matched     | % of Total Catch | Cumulative % Matched |
| VMS-Obs by Time and Obs Trackline                   | 827,140          | 47.39%           | 47.39%               |
| OBS Deploy and Retrieve Trackline                   | 219,709          | 12.59%           | 59.98%               |
| CV-Stat_Area  | 569,754          | 32.65%           | 92.63%               |
| CV-NMFS_Area  | 20,683           | 1.19%            | 93.82%               |
| CP_NMFS_Area  | 40,332           | 2.31%            | 96.13%               |
| Grouping for Extrapolations for unmatched catch:    |                  |                  |                      |
| Avg_MgtPrg_HS_RA_Gr_Tgt_WED_Ves                     | 1,321            | 0.08%            | 96.20%               |
| Avg_HS_RA_Gr_Tgt_WED_VesID                          | 24               | 0.00%            | 96.20%               |
| Avg_HS_RA_Gr_Tgt_WED_PID                            | 32,466           | 1.86%            | 98.07%               |
| Avg_MgtPrg_HS_RA_Gr_Tgt_WED                         | 17,701           | 1.01%            | 99.08%               |
| Avg_MgtPrg_RA_Gr_Tgt_WED                            | 513              | 0.03%            | 99.11%               |
| Avg_HS_RA_Tgt_WED                                   | 5,829            | 0.33%            | 99.44%               |
| Avg_HS_RA_Gr_WED                                    | 4,516            | 0.26%            | 99.70%               |
| Avg_RA_Gr_Tgt_WED                                   | 166              | 0.01%            | 99.71%               |
| Avg_RA_Gr_WED                                       | 447              | 0.03%            | 99.74%               |
| Avg_RA_Tgt_WED                                      | 250              | 0.01%            | 99.75%               |
| Avg_RA_Gr_Mnt_Yr                                    | 2,534            | 0.15%            | 99.90%               |
| Avg_FMP_GrT_Tgt_WED                                 | 894              | 0.05%            | 99.95%               |
| Avg_FMP_Gr_Mnt_Yr                                   | 16               | 0.00%            | 99.95%               |
| Avg_FMP_Tgt_WED                                     | 582              | 0.03%            | 99.98%               |
| Avg_FMP_Gr_WED                                      | 23               | 0.00%            | 99.98%               |
| <b>Total VOE-CIA by Grid_ID to Catch Accounting</b> | <b>1,744,900</b> |                  |                      |
| <b>Total of full Catch Accounting System</b>        | <b>1,745,504</b> |                  |                      |

The final dataset includes data from Steps 1 – 5 above, plus data derived from the Average Vessel processes. This creates a geospatial database that matches the Catch Accounting system. Several additional columns of information are added to Catch Accounting that include Percent in Grid, Weight-In-Grid, Match Source, ‘ESA Critical Habitat,’ ‘679 Critical Habitat,’ and assorted protection areas. Each area of study resides in a separate column (which may be queried) to insure that catch is not double or triple counted.

Match Source is the metadata column. It provides analysts information as to which step captured the data: Step 1: VMS-Obs, Step 2: OBS, Step 3: CV-Stat\_Area, Step 4: CV-NMFS\_Area, Step 5: CP\_NMFS\_Area, or Average Vessel. Average Vessel is further broken down by which groupings were used for the extrapolations. For instance, the first grouping above includes AVG: Harvest Sector-NMFS\_Area GEAR Type, Target, Week Ending Date and Vessel Id. The Average Vessel catch can be removed from queries if requested by the analyst.

With the database complete, it can then be joined back to the GIS, or a GIS feature class can be joined to the native database by the grid ID. Other geospatial data that are currently complete and attached to the CIA include distance from aggregated Steller sea lion Critical habitat sites; distance from individual, overlapping SSL sites; and distance from foraging areas and some of the habitat protection and conservation areas.

**This table illustrates most of the relevant columns in the VOE-CIA dataset. Note that data can be selected independently or grouped by any of the columns below, including, Target Fishery, Gear Type, Vessel ID, Processor, Sector, Management Program, Coop or Group or operating in any of several zones (SSL or Habitat) or management areas.**

| Base Catch Accounting Data    | Additional VOE-CIA Columns       |
|-------------------------------|----------------------------------|
| Reporting Area Code           | 7Km Grid ID                      |
| Catch Activity Date           | Weight In Grid                   |
| Week End Date                 | Match Source: Matching Algorithm |
| Trip Target Date              | Species Adjusted Weight          |
| Year, Month, Quarter          | ADFG STAT AREA                   |
| Catch Report Type Code        | Percent in Grid                  |
| CA Reference / Haul-SLog Join | 20Km Grid ID                     |
| Vessel ID                     | 226 SSL Critical Habitat         |
| Gear Type                     | 679 SSL Critical Habitat         |
| Harvest Sector                | No NPT Areas                     |
| Trip Target Code              |                                  |
| Management Program Code       |                                  |
| AFA Coop ID                   |                                  |
| Processor ID                  |                                  |
| State Waters Flag             |                                  |
| FMP Area Code                 |                                  |
| Species Group Code            |                                  |
| BSAI Processing Sector        |                                  |
| Vessel Size Category          |                                  |
| PSCNQ Processing Sector       |                                  |
| CDQ Group ID                  |                                  |
| Agency Species Code           |                                  |
| Source Table: Obs, WPR, State |                                  |
| Directed Fishing Flags        |                                  |
| Weight Posted                 |                                  |

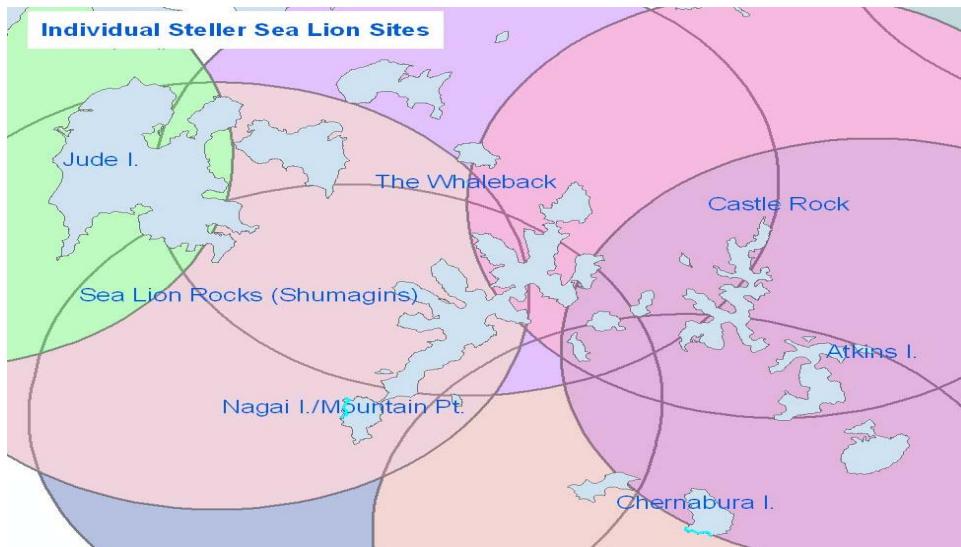
  

| Other Distinct VOE-CIA Datasets |
|---------------------------------|
| Overlapping SSL Sites           |
| PSC: Prohibited Species         |

### **Other Datasets: Prohibited Species and Overlapping Steller Sea Lion Site VOE-CIA Datasets**

Two separate VOE-CIA datasets have also been created: Prohibited Species (PSC) and Overlapping SSL sites. The overlapping SSL site dataset is by each of the 154 Steller sea lion sites, split out by 3, 10 and 20nautical miles; and, where the individual SSL sites overlap, the catch will overlap. This will give analysts and policy makers the ability to look at individual vessels, fleets, and target fisheries, gears types etc., operating in or around each individual SSL sites. Catch by the overlapping Steller sea lion site cannot be grouped and

summed by management areas since catch from the overlapping Steller sea lion sites would be counted several times where the sites overlap.



PSC: The PSC database (PSC) is joined by the associated values to the VOE-CIA and the records divided into Grid ID's in the same proportions that were made with Catch Accounting groundfish database. The noted caveats to this PSC dataset are embedded within the PSC data. These caveats include how the base PSC data was collected and then extrapolated to the non observed fleets.

### Included Prohibited Catch Species.

|                    |
|--------------------|
| Blue King Crab     |
| Bairdi Tanner Crab |
| Chinook            |
| Grenadier          |
| Hake               |
| Golden King Crab   |
| Herring            |
| Halibut            |
| Non Chinook Salmon |
| Other King Crab    |
| Red King Crab      |

### Use of the VOE-CIA for Analytical Purposes

The VOE-CIA database uses an iterative, ordered process to match VMS records, Observer collected data and VMS/Catch Accounting System indicators to a fishing vessel. This gives analysts the capability to analyze unobserved vessels that may have been transparent when only using earlier analytical tools such as observer data. For example, the comparative analysis in the tables below, show a difference in catch between the VOE-CIA and the Expanded Observer Dataset (extrapolated Observer data, also called the EOD) for the

unobserved/small vessel fleet that operates within 3 and 10 nm from unrestricted Steller sea lion sites.

It should be noted that VOE-CIA data only go back as far as 2003. This is due to the unavailability of reliable VMS data and a vessel linked catch accounting system before 2003. Observer data on the other hand goes back to the early 1990s, giving analysts the ability to look at long-term trends in groundfish catch and that can be related to Steller sea lion population trends. Both VOE-CIA and the EOD are utilized in this document to insure the best available data is being used for the appropriate analysis. When considering *trends* in catch it would be inappropriate to mix these data sets or to substitute a single year of catch data from one data set into a trend analysis based on the other data set.

The VOE-CIA gives analysts the ability to look at fine scale spatial groundfish catch data. For instance, ESA listed, Part 226 Critical Habitat for Steller sea lions is designated by 133 Steller Sea lion sites and foraging areas in the Bering Sea, Aleutian Islands and the Gulf of Alaska. These sites are buffered at a radius of 20nm, and for analysis only, are further divided from the point of origin at the Steller sea lion site at 0-3, 3-10, and 10-20nm. It is important to note that the catch shown in foraging areas is only that catch taken outside the 20nm SSL zones.

Catch from the additional 19 ‘RPA sites’ (1998 and 1999) are not included in these tables since the Biological Opinion is predominately looking at ESA listed, Part 226 Critical Habitat. Most of the RPA sites overlap other Steller sea lion sites so most of this RPA catch is accounted for in SSL Critical Habitat.

Table A examines VOE-CIA 2003 data with VOE-CIA 2008 data, using the ESA listed, Part 226 SSL Critical Habitat as the basis of comparison. Note the catch difference in the pollock fishery in the Bering Sea CH/CVOA (Bering Sea Foraging Area). It shows that the fishing fleet is moving north and outside of the CH/CVOA in the Bering Sea. The catch difference reflects a change in species catch composition away from predominately pollock to a more varied species composition.

Table A sums pollock, Atka mackerel, Pacific cod, and ArrowTooth flounder into a single table by Steller sea lion area and FMP area: GOA, AI and BS. Total catch of these species is shown whether or not the species was being targeted.

Table B is the same catch data as in Table A but divided into the four species groups as analyzed in the Biological Opinion. Tables A and B do not compare VOE-CIA to Expanded Observer Data (EOD); but, those comparisons can be found in the final Tables: 1 through 10 below.

**Table A.** A negative or red number represents catch that is lower in 2008 than in 2003.

| FMP | YEAR | Area        | Tons<br>2003 | Tons 2008 | Change/Tons |
|-----|------|-------------|--------------|-----------|-------------|
| AI  | 2003 | Outside CH  | 41,601       | 42,920    | 1,318       |
| AI  | 2003 | 0-3'        | 169          | 646       | 477         |
| AI  | 2003 | 3-10'       | 11,304       | 12,070    | 766         |
| AI  | 2003 | 10-20'      | 30,568       | 36,891    | 6,323       |
| AI  | 2003 | Seguam Pass | 44           | 20        | -23         |
| BS  | 2003 | Outside CH  | 757,228      | 843,081   | 85,853      |
| BS  | 2003 | 0-3'        | 530          | 84        | -446        |
| BS  | 2003 | 3-10'       | 18,561       | 10,081    | -8,480      |
| BS  | 2003 | 10-20'      | 176,371      | 75,783    | -100,588    |
| BS  | 2003 | CH/CVOA     | 569,427      | 221,045   | -348,382    |
| GOA | 2003 | Outside CH  | 54,428       | 54,275    | -153        |
| GOA | 2003 | 0-3'        | 2,566        | 4,988     | 2,423       |
| GOA | 2003 | 3-10'       | 23,824       | 31,117    | 7,294       |
| GOA | 2003 | 10-20'      | 49,614       | 46,235    | -3,379      |
| GOA | 2003 | Shelikof    | 3,663        | 5,580     | 1,916       |

**Table B.** A negative or red number represents catch that is lower in 2008 than in 2003.

| FMP | 226 Critical Habitat | Species | Tons - 2003 | Tons - 2008 | Change/Tons |
|-----|----------------------|---------|-------------|-------------|-------------|
| AI  | Outside of SSL CH    | AMCK    | 31,781      | 38,423      | 6,642       |
| AI  | Outside of SSL CH    | ARTH    | 343         | 333         | -10         |
| AI  | Outside of SSL CH    | PCOD    | 9,030       | 3,640       | -5,390      |
| AI  | Outside of SSL CH    | PLCK    | 447         | 524         | 77          |
| AI  | 3-10'                | AMCK    | 781         | 299         | -482        |
| AI  | 3-10'                | ARTH    | 156         | 811         | 655         |
| AI  | 3-10'                | PCOD    | 9,774       | 10,748      | 974         |
| AI  | 3-10'                | PLCK    | 593         | 212         | -382        |
| AI  | 10-20'               | AMCK    | 16,394      | 18,966      | 2,572       |
| AI  | 10-20'               | ARTH    | 368         | 1,364       | 996         |
| AI  | 10-20'               | PCOD    | 13,285      | 16,022      | 2,737       |
| AI  | 10-20'               | PLCK    | 520         | 538         | 18          |
| AI  | 0-3'                 | AMCK    | 4           | 1           | -3          |
| AI  | 0-3'                 | ARTH    | 13          | 3           | -10         |
| AI  | 0-3'                 | PCOD    | 111         | 637         | 527         |
| AI  | 0-3'                 | PLCK    | 41          | 5           | -36         |
| AI  | Seguam_Pass          | AMCK    | 0           | 0           | 0           |
| AI  | Seguam_Pass          | ARTH    | 35          | 10          | -25         |
| AI  | Seguam_Pass          | PCOD    | 2           | 10          | 8           |
| AI  | Seguam_Pass          | PLCK    | 7           | 0           | -7          |

**Table B continued.**

| FMP | 226 Critical Habitat | Species | Tons - 2003 | Tons - 2008 | Change/Tons |
|-----|----------------------|---------|-------------|-------------|-------------|
| BS  | Outside of SSL CH    | AMCK    | 222         | 17          | -205        |
| BS  | Outside of SSL CH    | ARTH    | 5,606       | 7,760       | 2,155       |
| BS  | Outside of SSL CH    | PCOD    | 93,518      | 100,378     | 6,860       |
| BS  | Outside of SSL CH    | PLCK    | 657,882     | 734,926     | 77,044      |
| BS  | 3-10'                | AMCK    | 200         | 35          | -164        |
| BS  | 3-10'                | ARTH    | 106         | 4,019       | 3,914       |
| BS  | 3-10'                | PCOD    | 7,103       | 2,662       | -4,441      |
| BS  | 3-10'                | PLCK    | 11,153      | 3,364       | -7,789      |
| BS  | 10-20'               | AMCK    | 3,117       | 328         | -2,789      |
| BS  | 10-20'               | ARTH    | 2,467       | 3,603       | 1,136       |
| BS  | 10-20'               | PCOD    | 16,793      | 10,733      | -6,060      |
| BS  | 10-20'               | PLCK    | 153,994     | 61,120      | -92,875     |
| BS  | 0-3'                 | AMCK    | 15          | 2           | -13         |
| BS  | 0-3'                 | ARTH    | 1           | 1           | 0           |
| BS  | 0-3'                 | PCOD    | 405         | 81          | -323        |
| BS  | 0-3'                 | PLCK    | 110         | 1           | -109        |
| BS  | CH/CVOA              | AMCK    | 1,535       | 17          | -1,518      |
| BS  | CH/CVOA              | ARTH    | 3,772       | 3,958       | 186         |
| BS  | CH/CVOA              | PCOD    | 46,660      | 25,818      | -20,843     |
| BS  | CH/CVOA              | PLCK    | 517,460     | 191,253     | -326,207    |

| FMP | 226 Critical Habitat | Species | Tons - 2003 | Tons - 2008 | Change/Tons |
|-----|----------------------|---------|-------------|-------------|-------------|
| GOA | Outside of SSL CH    | AMCK    | 510         | 1,389       | 878         |
| GOA | Outside of SSL CH    | ARTH    | 20,924      | 19,055      | -1,869      |
| GOA | Outside of SSL CH    | PCOD    | 20,403      | 21,715      | 1,312       |
| GOA | Outside of SSL CH    | PLCK    | 12,591      | 12,117      | -474        |
| GOA | 3-10'                | AMCK    | 3           | 91          | 88          |
| GOA | 3-10'                | ARTH    | 1,307       | 3,174       | 1,867       |
| GOA | 3-10'                | PCOD    | 13,932      | 14,383      | 451         |
| GOA | 3-10'                | PLCK    | 8,582       | 13,469      | 4,888       |
| GOA | 10-20'               | AMCK    | 62          | 629         | 567         |
| GOA | 10-20'               | ARTH    | 7,055       | 6,520       | -535        |
| GOA | 10-20'               | PCOD    | 13,728      | 16,318      | 2,590       |
| GOA | 10-20'               | PLCK    | 28,769      | 22,768      | -6,001      |
| GOA | 0-3'                 | AMCK    | 0           | 1           | 0           |
| GOA | 0-3'                 | ARTH    | 3           | 29          | 26          |
| GOA | 0-3'                 | PCOD    | 2,369       | 4,748       | 2,379       |
| GOA | 0-3'                 | PLCK    | 193         | 211         | 17          |
| GOA | Shelikof             | ARTH    | 1,073       | 541         | -532        |
| GOA | Shelikof             | PCOD    | 2,009       | 1,752       | -257        |
| GOA | Shelikof             | PLCK    | 581         | 3,287       | 2,706       |

### Comparison between Catch-In-Areas database and Expanded Observer Database

The following tables analyze the difference between catch reported by the VOE-CIA and the Expanded Observer Database (EOD), inside each RCA area, by distance zone (0-3 nm, 3-10 nm, and 10-20 nm) and year. 2003 through 2008 pollock, Atka mackerel, Pacific cod, and

ArrowTooth flounder catch is analyzed here. At the time of this analysis, 2009 CIA data was incomplete and is therefore not shown. Differences are indicated between the VOE-CIA and EOD in the observed fleet and as noted, the unobserved or partially observed smaller vessel fleet that often operates between 0-10 nm from SSL sites. An example of the catch differences between these two databases in the partially observed, small vessel fleet, see 2003: SSL BiOp Area 8, in zone 3-10, for Pacific cod.

Negative numbers represent EOD catch that was less than was estimated in the CIA. These lower estimates are due to fewer observed hauls in a given area. The small catch discrepancies inside the Steller sea lion zones were understood by authors when doing their analyzes. And while some of these estimates were lower in the EOD than in the CIA, they were viewed as a conservative approach to evaluate relationships between catch and Steller sea lion trends in adjacent areas.

TAC refers to limits that vary spatially by target fisheries from NMFS Reporting Areas and by the FMP extents. TAC was not disaggregated in this analysis by area and therefore should not be used a direct indication of the status of each fishery by the RCA without first looking at the spatial extent of the TAC. TAC for RCA 6 is the BS or BSAI, depending on fishery. GOA TAC is not included in RCA 6.

**2003**

| SSL BiOp Area 1             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|--------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2003 | 0  | 51    | 99    | 0        | 150         | 355                      | 0  | 86    | 72    |          | 158         | 305                      | 0  | -35    | 27    | 0        | -8          | -15                      | 1,000   | 31%     |
| Pacific Cod                 | 2003 | 0  | 1460  | 1211  | 0        | 2,671       | 3,323                    | 3  | 17    | 1000  |          | 1,020       | 2,974                    | -3   | 1,443  | 211   | 0        | 1,651       | 3,301                    | 207,500 | 1%      |
| Atka Mackerel               | 2003 | 0  | 21    | 5,357 | 0        | 5,378       | 19,077                   | 0  | 1,377 | 3369  |          | 4,746       | 17,884                   | 0  | -1,356 | 1,988 | 0        | 632         | 1,265                    | 19,990  | 89%     |
| ArrowTooth Flounder         | 2003 | 0  | 7     | 44    | 0        | 51          | 141                      | 1  | 58    | 38    |          | 97          | 135                      | -1   | -51    | 6     | 0        | -46         | -92                      | 12,000  | 1%      |
| <i>Sum all four species</i> | 2003 | 0  | 1,539 | 6,711 | 0        | 8,250       | 22,896                   | 4  | 1,538 | 4,478 | 0        | 6,020       | 21,298                   | -4   | 1      | 2,233 | 0        | 2,230       | 4,459                    | 240,490 | 9%      |

| SSL BiOp Area 2             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |        |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2003 | 0  | 263  | 70     | 0        | 333         | 437                      | 6  | 370   | 80     |          | 456         | 553                      | -6   | -107 | -10   | 0        | -123        | -116                     | 1,000   | 55%     |
| Pacific Cod                 | 2003 | 14   | 287  | 1,457  | 0        | 1,758       | 4,645                    | 20   | 477   | 1323   |          | 1,821       | 4,618                    | -6   | -190 | 134   | 0        | -63         | 27                       | 207,500 | 2%      |
| Atka Mackerel               | 2003 | 0  | 105  | 12,629 | 0        | 12,734      | 26,086                   | 0  | 181   | 12097  |          | 12,278      | 24,835                   | 0  | -76  | 532   | 0        | 456         | 1,251                    | 29,360  | 85%     |
| ArrowTooth Flounder         | 2003 | 0  | 8    | 19     | 0        | 27          | 102                      | 0  | 13    | 18     |          | 31          | 116                      | 0  | -5   | 1     | 0        | -4          | -14                      | 12,000  | 1%      |
| <i>Sum all four species</i> | 2003 | 14   | 663  | 14,175 | 0        | 14,852      | 31,270                   | 27   | 1,042 | 13,518 | 0        | 14,586      | 30,123                   | -13  | -379 | 657   | 0        | 266         | 1,147                    | 249,860 | 12%     |

| SSL BiOp Area 3             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 3 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2003 | 59   | 124   | 7     |          | 190         | 191                      | 35   | 145   | 9     |          | 189         | 191                      | 24   | -21  | -2    | 0        | 1           | 0                        | 1,000   | 19%     |
| Pacific Cod                 | 2003 | 1  | 716   | 457   |          | 1,174       | 1,175                    | 38   | 1,388 | 412   |          | 1,838       | 1,844                    | -37  | -672 | 45    | 0        | -664        | -669                     | 207,500 | 1%      |
| Atka Mackerel               | 2003 | 7  | 362   | 799   |          | 1,168       | 1,189                    | 4  | 271   | 342   |          | 616         | 643                      | 3  | 91   | 457   | 0        | 552         | 546                      | 29,360  | 2%      |
| ArrowTooth Flounder         | 2003 | 18   | 52    | 29    |          | 99          | 100                      | 12   | 59    | 28    |          | 99          | 104                      | 6  | -7   | 1     | 0        | 0           | -4                       | 12,000  | 1%      |
| <i>Sum all four species</i> | 2003 | 85   | 1,254 | 1,292 | 0        | 2,631       | 2,655                    | 89   | 1,862 | 791   | 0        | 2,742       | 2,782                    | -4   | -608 | 501   | 0        | -111        | -127                     | 249,860 | 1%      |

| SSL BiOp Area 4             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |       |          |             | Total<br>Catch<br>Area 4 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|--------|-------|----------|-------------|--------------------------|---------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2003 | 0  | 9     | 280   |          | 289         | 398                      | 0  | 10    | 233   |          | 243         | 326                      | 0  | -1     | 47    | 0        | 46          | 72                       | 1,000   | 33%     |
| Pacific Cod                 | 2003 | 0  | 4,489 | 6,101 |          | 10,590      | 14,437                   | 50   | 6,471 | 4636  |          | 11,157      | 14,338                   | -50  | -1,982 | 1,465 | 0        | -567        | 99                       | 207,500 | 7%      |
| Atka Mackerel               | 2003 | 0  | 190   | 196   |          | 386         | 411                      | 0  | 111   | 296   |          | 407         | 420                      | 0  | 79     | -100  | 0        | -21         | -9                       | 10,650  | 4%      |
| ArrowTooth Flounder         | 2003 | 0  | 38    | 50    |          | 88          | 109                      | 0  | 27    | 57    |          | 85          | 109                      | 0  | 11     | -7    | 0        | 3           | 0                        | 12,000  | 1%      |
| <i>Sum all four species</i> | 2003 | 0  | 4,726 | 6,627 | 0        | 11,353      | 15,355                   | 50   | 6,620 | 5,221 | 0        | 11,892      | 15,194                   | -50  | -1,894 | 1,406 | 0        | -539        | 161                      | 231,150 | 7%      |

| SSL BiOp Area 5     |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 5 | TAC     | CIA/TAC |
|---------------------|------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
| Gear                | Year | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock             | 2003 | 0  | 19   | 191   | 11       | 221         | 301                      |  | 11   | 127   | 0        | 139         | 232                      | 0  | 8    | 64    | 11       | 82          | 69                       | 1,000   | 23%     |
| Pacific Cod         | 2003 | 0  | 10   | 6,325 | 1        | 6,336       | 8,871                    |  | 61   | 5918  | 10       | 5,988       | 8,468                    | 0  | -51  | 407   | -9       | 348         | 403                      | 207,500 | 4%      |
| Atka Mackerel       | 2003 | 0  | 56   | 336   | 1        | 393         | 6,149                    |  | 131  | 291   | 0        | 423         | 5,178                    | 0  | -75  | 45    | 1        | -30         | 971                      | 10,650  | 49%     |
| ArrowTooth Flounder | 2003 | 0  | 17   | 325   | 45       | 387         | 533                      |  | 39   | 228   | 10       | 276         | 451                      | 0  | -22  | 97    | 35       | 111         | 82                       | 12,000  | 4%      |

|                             |      |   |     |       |    |       |        |   |     |       |    |       |        |   |      |     |    |     |       |         |    |
|-----------------------------|------|---|-----|-------|----|-------|--------|---|-----|-------|----|-------|--------|---|------|-----|----|-----|-------|---------|----|
| <i>Sum all four species</i> | 2003 | 0 | 102 | 7,177 | 58 | 7,337 | 15,854 | 0 | 242 | 6,564 | 20 | 6,826 | 14,329 | 0 | -140 | 613 | 38 | 511 | 1,525 | 231,150 | 6% |
|-----------------------------|------|---|-----|-------|----|-------|--------|---|-----|-------|----|-------|--------|---|------|-----|----|-----|-------|---------|----|

| SSL BiOp Area 6             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |         |          |             |           | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |          |             |         |           |       | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |         |         |         |           |             | Total<br>Catch<br>Area 6 | TAC  | CIA/TAC |          |             |
|-----------------------------|------|--|--------|---------|----------|-------------|-----------|--------------------------|--|----------|-------------|---------|-----------|-------|--------------------------|--|---------|---------|---------|-----------|-------------|--------------------------|------|---------|----------|-------------|
| Gear                        | Year | 0-3  | 3-10   | 10-20   | Foraging | Total<br>CH | 0-3       | 3-10                     | 10-20  | Foraging | Total<br>CH | 0-3     | 3-10      | 10-20 | Foraging                 | Total<br>CH  | 0-3     | 3-10    | 10-20   | Foraging  | Total<br>CH | 0-3                      | 3-10 | 10-20   | Foraging | Total<br>CH |
| Pollock                     | 2003 | 126  | 14365  | 185766  | 468,478  | 668,735     | 1,492,079 | 110                      | 11,168   | 154116   | 517,479     | 682,873 | 1,341,342 | 16    | 3,197                    | 31,650   | -49,001 | -14,138 | 150,737 | 1,491,760 | 90%         |                          |      |         |          |             |
| Pacific Cod                 | 2003 | 112  | 9,178  | 15,070  | 25,983   | 50,343      | 179,472   | 448                      | 7,205  | 17366    | 46,853      | 71,873  | 165,948   | -336  | 1,973                    | -2,296   | -20,870 | -21,530 | 13,524  | 207,500   | 80%         |                          |      |         |          |             |
| Atka Mackerel               | 2003 | 6  | 419    | 4,440   | 374      | 5,239       | 5,462     | 15                       | 200  | 3117     | 1,541       | 4,873   | 5,064     | -9    | 219                      | 1,323  | -1,167  | 366     | 398     | 10,650    | 48%         |                          |      |         |          |             |
| ArrowTooth Flounder         | 2003 | 0  | 74     | 2255    | 3,550    | 5,879       | 11,187    | 1                        | 112  | 2609     | 3,897       | 6,619   | 14,500    | -1    | -38                      | -354   | -347    | -740    | -3,313  | 12,000    | 121%        |                          |      |         |          |             |
| <i>Sum all four species</i> | 2003 | 244  | 24,036 | 207,531 | 498,385  | 730,196     | 1,688,200 | 574                      | 18,686   | 177,208  | 569,771     | 766,238 | 1,526,854 | -330  | 5,350                    | 30,323   | -71,386 | -36,042 | 161,346 | 1,721,910 | 89%         |                          |      |         |          |             |

| SSL BiOp Area 7             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |        |          |             |        | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |          |             |        |        |        | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |     |        |        |          |             | Total<br>Catch<br>Area 7 | TAC  | CIA/TAC |          |             |
|-----------------------------|------|--|--------|--------|----------|-------------|--------|--------------------------|--|----------|-------------|--------|--------|--------|--------------------------|--|-----|--------|--------|----------|-------------|--------------------------|------|---------|----------|-------------|
| Gear                        | Year | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH | 0-3    | 3-10                     | 10-20  | Foraging | Total<br>CH | 0-3    | 3-10   | 10-20  | Foraging                 | Total<br>CH  | 0-3 | 3-10   | 10-20  | Foraging | Total<br>CH | 0-3                      | 3-10 | 10-20   | Foraging | Total<br>CH |
| Pollock                     | 2003 | 0  | 5961   | 5329   |          | 11,290      | 14,528 | 160                      | 5,959  | 5779     |             | 11,898 | 15,774 | -160   | 2                        | -450   | 0   | -608   | -1,246 | 16,788   | 94%         |                          |      |         |          |             |
| Pacific Cod                 | 2003 | 18   | 8,662  | 4,877  |          | 13,557      | 20,274 | 1,038                    | 9,806  | 5300     |             | 16,145 | 20,433 | -1,020 | -1,144                   | -423   | 0   | -2,588 | -159   | 15,450   | 132%        |                          |      |         |          |             |
| Atka Mackerel               | 2003 | 0  | 100    | 42     |          | 142         | 417    | 0                        | C  | 59       |             | 59     | 445    | 0      |                          | -17  | 0   | 83     | -28    | 600      | 74%         |                          |      |         |          |             |
| ArrowTooth Flounder         | 2003 | 0  | 447    | 1872   |          | 2,319       | 6,497  | 1                        | 50   | 301      |             | 352    | 5,690  | -1     | 397                      | 1,571  | 0   | 1,967  | 807    | 8,000    | 71%         |                          |      |         |          |             |
| <i>Sum all four species</i> | 2003 | 18   | 15,170 | 12,120 | 0        | 27,308      | 41,716 | 1,199                    | 15,815   | 11,439   | 0           | 28,453 | 42,342 | -1,181 | -745                     | 681  | 0   | -1,145 | -626   | 40,838   | 104%        |                          |      |         |          |             |

| SSL BiOp Area 8 |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             |        | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |          |             |        |        |        | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |       |          |             | Total<br>Catch<br>Area 8 | TAC  | CIA/TAC |          |             |
|-----------------|------|--|------|-------|----------|-------------|--------|--------------------------|--|----------|-------------|--------|--------|--------|--------------------------|--|------|-------|-------|----------|-------------|--------------------------|------|---------|----------|-------------|
| Gear            | Year | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH | 0-3    | 3-10                     | 10-20  | Foraging | Total<br>CH | 0-3    | 3-10   | 10-20  | Foraging                 | Total<br>CH  | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH | 0-3                      | 3-10 | 10-20   | Foraging | Total<br>CH |
| Pollock         | 2003 | 0  | 292  | 13559 | 341      | 14,192      | 19,455 | 0                        | 356  | 12328    | 362         | 13,046 | 19,776 | 0      | -64                      | 1,231  | -21  | 1,146 | -321  | 19,685   | 100%        |                          |      |         |          |             |
| Pacific Cod     | 2003 | 0  | 72   | 3,994 | 172      | 4,238       | 6,983  | 1,091                    | 810  | 1467     | 1,094       | 4,462  | 7,080  | -1,091 | -738                     | 2,527  | -922 | -224  | -97   | 22,690   | 31%         |                          |      |         |          |             |
| Atka Mackerel   | 2003 | 0  | 0    | 3     | 0        | 3           | 138    | 0                        | 0  | C        | 0           | 1      | 142    | 0      | 0                        |  | 0    | 2     | -4    | 600      | 24%         |                          |      |         |          |             |

|                             |      |   |     |        |       |        |        |       |       |        |       |        |        |        |      |       |        |       |      |        |     |
|-----------------------------|------|---|-----|--------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|------|-------|--------|-------|------|--------|-----|
| ArrowTooth Flounder         | 2003 | 0 | 336 | 3609   | 532   | 4,477  | 8,747  | 0     | 368   | 2989   | 701   | 4,058  | 8,734  | 0      | -32  | 620   | -169   | 419   | 13   | 25,000 | 35% |
| <i>Sum all four species</i> | 2003 | 0 | 700 | 21,165 | 1,045 | 22,910 | 35,323 | 1,091 | 1,535 | 16,784 | 2,158 | 21,568 | 35,731 | -1,091 | -835 | 4,378 | -1,113 | 1,342 | -408 | 67,975 | 53% |

| SSL BiOp Area 9             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |        |          |             | Total<br>Catch<br>Area 9 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2003 | 0  | 1668  | 8964   | 202      | 10,834      | 11,229                   | 33   | 1,614 | 9736   | 219      | 11,602      | 12,321                   | -33  | 54    | -772   | -17      | -768        | -1,092                   | 10,339 | 119%    |
| Pacific Cod                 | 2003 | 0  | 4,565 | 4,096  | 236      | 8,897       | 22,761                   | 164  | 2,930 | 6307   | 915      | 10,316      | 23,099                   | -164   | 1,635 | -2,211 | -679     | -1,419      | -338                     | 24,000 | 96%     |
| Atka Mackerel               | 2003 | 0  | 0     | 1      | 0        | 1           | 21                       | 0  | 0     | 0      | 0        | 1           | 21                       | 0  | 0     | 1      | 0        | 0           | 0                        | 600    | 3%      |
| ArrowTooth Flounder         | 2003 | 0  | 910   | 5740   | 702      | 7,352       | 13,355                   | C  | 879   | 3615   | 372      | 4,866       | 13,401                   |  | 31    | 2,125  | 330      | 2,486       | -46                      | 25,000 | 54%     |
| <i>Sum all four species</i> | 2003 | 0  | 7,143 | 18,801 | 1,140    | 27,084      | 47,366                   | 197  | 5,423 | 19,658 | 1,506    | 26,784      | 48,842                   | -197   | 1,720 | -857   | -366     | 300         | -1,476                   | 38,339 | 127%    |

| SSL BiOp Area 10            |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC   | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|-------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |       |         |
| Pollock                     | 2003 | 0  | 768   | 2155  |          | 2,923       | 3,484                     | 0  | 637  | 805   |          | 1,442       | 2,115                     | 0  | 131  | 1,350 | 0        | 1,481       | 1,369                     | 1,078 | 196%    |
| Pacific Cod                 | 2003 | 0  | 357   | 494   |          | 851         | 968                       | 33   | 277  | 75    |          | 385         | 469                       | -33  | 80   | 419   | 0        | 466         | 499                       | 2,400 | 20%     |
| Atka Mackerel               | 2003 | 0  | 0     | 0     |          | 0           | 0                         | C  | C    |       |          | 0           | 0                         | 0  | 0    | 0     | 0        | 0           | 0                         | 600   | 0%      |
| ArrowTooth Flounder         | 2003 | 0  | 0     | 39    |          | 39          | 144                       | 0  | 0    | 0     |          | 0           | 71                        | 0  | 0    | 39    | 0        | 39          | 73                        | 2,500 | 3%      |
| <i>Sum all four species</i> | 2003 | 0  | 1,125 | 2,688 | 0        | 3,813       | 4,596                     | 33   | 914  | 881   | 0        | 1,828       | 2,655                     | -33  | 211  |       | 0        | 1,985       | 1,941                     | 6,578 | 40%     |

## 2004

| SSL BiOp Area 1             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2004 | 0  | 86    | 79    | 0        | 165         | 550                      | 0  | 91    | 69    |          | 160         | 245                      | 0  | -5   | 10    | 0        | 5           | 305                      | 1,000   | 25%     |
| Pacific Cod                 | 2004 | 2  | 1,135 | 1,706 | 0        | 2,843       | 3,228                    | C  | 1,325 | 2028  |          | 3,353       | 3,639                    |  | -190 | -322  | 0        | -510        | -411                     | 215,500 | 2%      |
| Atka Mackerel               | 2004 | 0  | 9     | 727   | 0        | 736         | 18,375                   | 0  | 19    | 1291  |          | 1,310       | 19,547                   | 0  | -10  | -564  | 0        | -574        | -1,172                   | 20,660  | 95%     |
| ArrowTooth Flounder         | 2004 | 0  | 11    | 20    | 0        | 31          | 128                      | 0  | 16    | 33    |          | 49          | 127                      | 0  | -5   | -13   | 0        | -18         | 1                        | 12,000  | 1%      |
| <i>Sum all four species</i> | 2004 | 2  | 1,241 | 2,532 | 0        | 3,775       | 22,281                   | 0  | 1,451 | 3,421 | 0        | 4,872       | 23,558                   |  | -210 | -889  | 0        | -1,097      | -1,277                   | 249,160 | 9%      |

| SSL BiOp Area 2             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2004 | 0  | 40    | 97     | 0        | 137         | 286                      | 0  | 141   | 96     |          | 237         | 373                      | 0  | -101 | 1     | 0        | -100        | -87                      | 1,000   | 37%     |
| Pacific Cod                 | 2004 | 42   | 1,195 | 2,152  | 0        | 3,389       | 5,008                    | 73   | 1,588 | 1488   |          | 3,150       | 4,890                    | -31  | -393 | 664   | 0        | 239         | 118                      | 215,500 | 2%      |
| Atka Mackerel               | 2004 | 30   | 1     | 12,907 | 0        | 12,938      | 27,899                   | C  | 446   | 12300  |          | 12,746      | 27,799                   |  | -445 | 607   | 0        | 192         | 100                      | 31,100  | 89%     |
| ArrowTooth Flounder         | 2004 | 1  | 10    | 73     | 0        | 84          | 156                      | 1  | 16    | 64     |          | 82          | 157                      | 0  | -6   | 9     | 0        | 2           | -1                       | 12,000  | 1%      |
| <i>Sum all four species</i> | 2004 | 73   | 1,246 | 15,229 | 0        | 16,548      | 33,349                   | 75   | 2,192 | 13,948 | 0        | 16,214      | 33,219                   |  | -946 | 1,281 | 0        | 334         | 130                      | 259,600 | 13%     |

| SSL BiOp Area 3             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 3 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2004 | 82   | 53   | 2     |          | 137         | 139                      | 57   | 80    | 5     |          | 143         | 144                      | 25   | -27  | -3    | 0        | -6          | -5                       | 1,000   | 14%     |
| Pacific Cod                 | 2004 | 7  | 718  | 843   |          | 1,568       | 1,569                    | 56   | 1,358 | 657   |          | 2,072       | 2,072                    | -49  | -640 | 186   | 0        | -504        | -503                     | 215,500 | 1%      |
| Atka Mackerel               | 2004 | 39   | 143  | 2,216 |          | 2,398       | 2,405                    | 51   | 164   | 2155  |          | 2,370       | 2,378                    | -12  | -21  | 61    | 0        | 28          | 27                       | 31,100  | 8%      |
| ArrowTooth Flounder         | 2004 | 16   | 36   | 21    |          | 73          | 79                       | 12   | 59    | 27    |          | 98          | 103                      | 4  | -23  | -6    | 0        | -25         | -24                      | 12,000  | 1%      |
| <i>Sum all four species</i> | 2004 | 144  | 950  | 3,082 | 0        | 4,176       | 4,192                    | 177  | 1,661 | 2,844 | 0        | 4,682       | 4,697                    | -33  | -711 | 238   | 0        | -506        | -505                     | 259,600 | 2%      |

| SSL BiOp Area 4             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 4 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2004 | 0  | 9     | 124   |          | 133         | 150                      | 0  | 14    | 60    |          | 74          | 123                      | 0  | -5   | 64    | 0        | 59          | 27                       | 1,000   | 12%     |
| Pacific Cod                 | 2004 | 21   | 5,268 | 5,883 |          | 11,172      | 12,556                   | 84   | 4,599 | 5644  |          | 10,326      | 11,648                   | -63  | 669  | 239   | 0        | 846         | 908                      | 215,500 | 5%      |
| Atka Mackerel               | 2004 | 0  | 160   | 125   |          | 285         | 285                      | 0  | 175   | 138   |          | 313         | 321                      | 0  | -15  | -13   | 0        | -28         | -36                      | 11,240  | 3%      |
| ArrowTooth Flounder         | 2004 | 1  | 34    | 28    |          | 63          | 69                       |  | 24    | 27    |          | 51          | 63                       |  | 10   | 1     | 0        | 12          | 6                        | 12,000  | 1%      |
| <i>Sum all four species</i> | 2004 | 22   | 5,471 | 6,160 | 0        | 11,653      | 13,060                   | 84   | 4,812 | 5,869 | 0        | 10,765      | 12,155                   |  | 659  | 291   | 0        | 888         | 905                      | 239,740 | 5%      |

| SSL BiOp Area 5             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 5 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2004 | 0  | 38   | 116   | 0        | 154         | 301                      |  | 11   | 140   | 0        | 151         | 273                      | 0  | 27   | -24   | 0        | 3           | 28                       | 1,000   | 27%     |
| Pacific Cod                 | 2004 | 0  | 88   | 3,993 | 0        | 4,081       | 6,491                    |  | 90   | 4044  | C        | 4,134       | 6,617                    | 0  | -2   | -51   |          | -53         | -126                     | 215,500 | 3%      |
| Atka Mackerel               | 2004 | 0  | 50   | 61    | 0        | 111         | 3,559                    |  | 50   | 65    | 0        | 115         | 3,360                    | 0  | 0    | -4    | 0        | -4          | 199                      | 11,240  | 30%     |
| ArrowTooth Flounder         | 2004 | 0  | 79   | 117   | 14       | 210         | 369                      |  | 37   | 163   | 15       | 215         | 368                      | 0  | 42   | -46   | -1       | -5          | 1                        | 12,000  | 3%      |
| <i>Sum all four species</i> | 2004 | 0  | 255  | 4,287 | 14       | 4,556       | 10,720                   | 0  | 188  | 4,412 | 15       | 4,615       | 10,618                   | 0  | 67   | -125  |          | -59         | 102                      | 239,740 | 4%      |

| SSL BiOp Area 6             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |         |          |             |           | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |         |          |             |           |      | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |             |         |       |           |          | Total<br>Catch<br>Area 6 | TAC | CIA/TAC |
|-----------------------------|------|--|--------|---------|----------|-------------|-----------|--------------------------|--|---------|----------|-------------|-----------|------|--------------------------|--|-------------|---------|-------|-----------|----------|--------------------------|-----|---------|
|                             |      | 0-3  | 3-10   | 10-20   | Foraging | Total<br>CH | 0-3       |                          | 3-10   | 10-20   | Foraging | Total<br>CH | 0-3       | 3-10 | 10-20                    | Foraging   | Total<br>CH | 0-3     | 3-10  | 10-20     | Foraging | Total<br>CH              |     |         |
| Pollock                     | 2004 | 0  | 10561  | 105710  | 492,337  | 608,608     | 1,482,910 | 8                        | 8,516  | 104833  | 544,609  | 657,966     | 1,481,207 | -8   | 2,045                    | 877  | -52,272     | -49,358 | 1,703 | 1,492,000 | 99%      |                          |     |         |
| Pacific Cod                 | 2004 | 22   | 7,739  | 14,863  | 29,517   | 52,141      | 184,002   | 118                      | 6,139  | 18039   | 45,314   | 69,610      | 184,993   | -96  | 1,600                    | -3,176   | -15,797     | -17,469 | -991  | 215,500   | 86%      |                          |     |         |
| Atka Mackerel               | 2004 | 0  | 504    | 5,009   | 623      | 6,136       | 6,535     | C                        | 332  | 4520    | 1,916    | 6,767       | 7,091     |      | 172                      | 489  | -1,293      | -631    | -556  | 11,240    | 63%      |                          |     |         |
| ArrowTooth Flounder         | 2004 | 1  | 236    | 3507    | 7,183    | 10,927      | 17,575    | 22                       | 205  | 3595    | 7,237    | 11,059      | 17,855    | -21  | 31                       | -88  | -54         | -132    | -280  | 12,000    | 149%     |                          |     |         |
| <i>Sum all four species</i> | 2004 | 23   | 19,040 | 129,089 | 529,660  | 677,812     | 1,691,022 | 148                      | 15,191   | 130,987 | 599,076  | 745,403     | 1,691,147 |      | 3,849                    | -1,898   | -69,416     | -67,591 | -125  | 1,730,740 | 98%      |                          |     |         |

| SSL BiOp Area 7             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             |        | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |          |             |        |        | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |             |        |        |        |          | Total<br>Catch<br>Area 7 | TAC | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------|--------------------------|--|--------|----------|-------------|--------|--------|--------------------------|--|-------------|--------|--------|--------|----------|--------------------------|-----|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH | 0-3    |                          | 3-10   | 10-20  | Foraging | Total<br>CH | 0-3    | 3-10   | 10-20                    | Foraging   | Total<br>CH | 0-3    | 3-10   | 10-20  | Foraging | Total<br>CH              |     |         |
| Pollock                     | 2004 | 0  | 3728  | 9469   |          | 13,197      | 20,860 | 0                        | 3,587  | 11723  |          | 15,310      | 22,367 | 0      | 141                      | -2,254   | 0           | -2,113 | -1,507 | 22,930 | 98%      |                          |     |         |
| Pacific Cod                 | 2004 | 0  | 3,604 | 7,938  |          | 11,542      | 20,261 | 2,084                    | 7,454  | 5774   |          | 15,312      | 20,253 | -2,084 | -3,850                   | 2,164  | 0           | -3,770 | 8      | 16,957 | 119%     |                          |     |         |
| Atka Mackerel               | 2004 | 0  | 69    | 93     |          | 162         | 777    | 0                        | 3  | 166    |          | 170         | 840    | 0      | 66                       | -73  | 0           | -8     | -63    | 600    | 140%     |                          |     |         |
| ArrowTooth Flounder         | 2004 | 0  | 535   | 610    |          | 1,145       | 2,573  | 0                        | 26   | 4191   |          | 4,217       | 9,041  | 0      | 509                      | -3,581   | 0           | -3,072 | -6,468 | 8,000  | 113%     |                          |     |         |
| <i>Sum all four species</i> | 2004 | 0  | 7,936 | 18,110 | 0        | 26,046      | 44,471 | 2,084                    | 11,069   | 21,855 | 0        | 35,009      | 52,501 | -2,084 | -3,133                   | -3,745   | 0           | -8,963 | -8,030 | 48,487 | 108%     |                          |     |         |

| SSL BiOp Area 8             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 8 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2004 | 0  | 299   | 14741  | 2,287    | 17,327      | 19,646                   | 0  | 468   | 14437  | 2,001    | 16,905      | 19,150                   | 0  | -169 | 304   | 286      | 422         | 496                      | 26,490 | 72%     |
| Pacific Cod                 | 2004 | 160  | 1,220 | 2,085  | 1,155    | 4,620       | 7,346                    | 1,349  | 720   | 1520   | 1,118    | 4,708       | 7,249                    | -1,189   | 500  | 565   | 37       | -88         | 97                       | 27,116 | 27%     |
| Atka Mackerel               | 2004 | 0  | 0     | 2      | 0        | 2           | 28                       | 0  | 0     | 0      | 0        | 0           | 30                       | 0  | 0    | 2     | 0        | 2           | -2                       | 600    | 5%      |
| ArrowTooth Flounder         | 2004 | 0  | 44    | 723    | 651      | 1,418       | 2,266                    | C  | 10    | 752    | 93       | 855         | 2,214                    |  | 34   | -29   | 558      | 563         | 52                       | 25,000 | 9%      |
| <i>Sum all four species</i> | 2004 | 160  | 1,563 | 17,551 | 4,093    | 23,367      | 29,286                   | 1,349  | 1,199 | 16,709 | 3,212    | 22,468      | 28,642                   | -1,189   | 364  | 842   | 881      | 899         | 644                      | 79,206 | 36%     |

| SSL BiOp Area 9             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |        |          |             | Total<br>Catch<br>Area 9 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2004 |  | 849   | 17832  | 66       | 18,747      | 19,296                   | C  | 1,359 | 17134  | 38       | 18,531      | 20,309                   |  | -510  | 698    | 28       | 216         | -1,013                   | 14,040 | 145%    |
| Pacific Cod                 | 2004 | 87   | 7,214 | 7,031  | 129      | 14,461      | 27,111                   | 763  | 5,694 | 8342   | 695      | 15,494      | 27,536                   | -676   | 1,520 | -1,311 | -566     | -1,033      | -425                     | 27,116 | 102%    |
| Atka Mackerel               | 2004 | 0  | 1     | 1      | 0        | 2           | 9                        | 0  | C     | 2      | 0        | 2           | 19                       | 0  |       | -1     | 0        | 0           | -10                      | 600    | 3%      |
| ArrowTooth Flounder         | 2004 | 0  | 287   | 5333   | 276      | 5,896       | 10,054                   | 6  | 980   | 6490   | 1,669    | 9,145       | 13,950                   | -6   | -693  | -1,157 | -1,393   | -3,249      | -3,896                   | 25,000 | 56%     |
| <i>Sum all four species</i> | 2004 | 87   | 8,351 | 30,197 | 471      | 39,106      | 56,470                   | 769  | 8,033 | 31,969 | 2,402    | 43,173      | 61,813                   | -682   | 317   | -1,772 | -1,931   | -4,067      | -5,343                   | 66,756 | 93%     |

| SSL BiOp Area 10            |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC   | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|---------------------------|--|-------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|-------|---------|
| Gear                        | Year | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |       |         |
| Pollock                     | 2004 | 0  | 0    | 748   |          | 748         | 1,353                     | 0  | 406   | 696   |          | 1,102       | 1,510                     | 0  | -406 | 52    | 0        | -354        | -157                      | 1,280 | 118%    |
| Pacific Cod                 | 2004 | 0  | 24   | 11    |          | 35          | 164                       |  | 8     | 5     |          | 12          | 114                       |  | 16   | 6     | 0        | 23          | 50                        | 3,960 | 3%      |
| Atka Mackerel               | 2004 | 0  | 0    | 0     |          | 0           | 0                         |  |       |       |          | 0           | 0                         | 0  | -2   | -2    | 0        | 0           | 0                         | 600   | 0%      |
| ArrowTooth Flounder         | 2004 | 0  | 0    | 17    |          | 17          | 137                       |  | 2     | 2     |          | 4           | 93                        |  |      |       | 0        | 13          | 44                        | 2,500 | 4%      |
| <i>Sum all four species</i> | 2004 | 248  | 574  | 1,761 | 0        | 2,583       | 1,654                     | 176  | 1,047 | 334   | 0        | 1,557       | 1,717                     | 72   | -473 | 1,427 | 0        | 1,026       | 557                       | 8,340 | 21%     |

2005

| SSL BiOp Area 1             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2005 | 0  | 239  | 72    | 0        | 311         | 550                      | C  | 204  | 94    |          | 298         | 516                      |  | 35   | -22   | 0        | 13          | 34                       | 19,000  | 3%      |
| Pacific Cod                 | 2005 | 0  | 363  | 2,960 | 0        | 3,323       | 4,225                    | 0  | 564  | 2886  |          | 3,450       | 4,177                    | 0  | -201 | 74    | 0        | -127        | 48                       | 206,000 | 2%      |
| Atka Mackerel               | 2005 | 0  | 2    | 3,543 | 0        | 3,545       | 19,130                   | 0  | 17   | 3542  |          | 3,559       | 19,496                   | 0  | -15  | 1     | 0        | -14         | -366                     | 20,000  | 97%     |
| ArrowTooth Flounder         | 2005 | 1  | 7    | 20    | 0        | 28          | 178                      | 2  | 12   | 23    |          | 36          | 183                      | -1   | -5   | -3    | 0        | -8          | -5                       | 12,000  | 2%      |
| <i>Sum all four species</i> | 2005 | 1  | 611  | 6,595 | 0        | 7,207       | 24,083                   | 2  | 797  | 6,545 | 0        | 7,344       | 24,373                   | -1   | -186 | 50    | 0        | -137        | -290                     | 257,000 | 9%      |

| SSL BiOp Area 2             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2005 | 0  | 54    | 46     | 0        | 100         | 166                      |  | 104   | 40     |          | 145         | 201                      |  | -50  | 6     | 0        | -45         | -35                      | 19,000  | 1%      |
| Pacific Cod                 | 2005 | 0  | 793   | 743    | 0        | 1,536       | 2,779                    | 0  | 794   | 825    |          | 1,619       | 2,469                    | 0  | -1   | -82   | 0        | -83         | 310                      | 206,000 | 1%      |
| Atka Mackerel               | 2005 | 0  | 225   | 15,707 | 0        | 15,932      | 31,648                   | 0  | 381   | 15462  |          | 15,843      | 31,209                   | 0  | -156 | 245   | 0        | 89          | 439                      | 35,500  | 88%     |
| ArrowTooth Flounder         | 2005 | 0  | 5     | 13     | 0        | 18          | 65                       |  | 22    | 11     |          | 33          | 80                       |  | -17  | 2     | 0        | -15         | -15                      | 12,000  | 1%      |
| <i>Sum all four species</i> | 2005 | 0  | 1,077 | 16,509 | 0        | 17,586      | 34,658                   | 0  | 1,302 | 16,338 | 0        | 17,640      | 33,958                   | 0  | -225 | 171   | 0        | -54         | 700                      | 272,500 | 12%     |

| SSL BiOp Area 3             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 3 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2005 | 41   | 59    | 13    |          | 113         | 113                      | 49   | 160   | 6     |          | 215         | 215                      | -8   | -101 | 7     | 0        | -102        | -102                     | 19,000  | 1%      |
| Pacific Cod                 | 2005 |  | 650   | 454   |          | 1,104       | 1,104                    |  | 643   | 440   |          | 1,083       | 1,085                    |  | 7    | 14    | 0        | 21          | 19                       | 206,000 | 1%      |
| Atka Mackerel               | 2005 | 15   | 439   | 3,784 |          | 4,238       | 4,244                    | 16   | 259   | 3827  |          | 4,102       | 4,107                    | -1   | 180  | -43   | 0        | 136         | 137                      | 35,500  | 12%     |
| ArrowTooth Flounder         | 2005 | 10   | 64    | 39    |          | 113         | 113                      | 18   | 67    | 35    |          | 120         | 120                      | -8   | -3   | 4     | 0        | -7          | -7                       | 12,000  | 1%      |
| <i>Sum all four species</i> | 2005 | 66   | 1,212 | 4,290 | 0        | 5,568       | 5,574                    | 82   | 1,129 | 4,308 | 0        | 5,519       | 5,527                    | -16  | 83   | -18   | 0        | 49          | 47                       | 272,500 | 2%      |

| SSL BiOp Area 4             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 4 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2005 | 0  | 6     | 17    |          | 23          | 212                      | 0  | 6     | 17    |          | 24          | 182                      | 0  | 0    | 0     | 0        | -1          | 30                       | 19,000  | 1%      |
| Pacific Cod                 | 2005 | 0  | 3,845 | 2,118 |          | 5,963       | 6,795                    |  | 4,210 | 2815  |          | 7,025       | 7,806                    |  | -365 | -697  | 0        | -1,062      | -1,011                   | 206,000 | 4%      |
| Atka Mackerel               | 2005 | 0  | 27    | 4     |          | 31          | 32                       |  | 21    | 9     |          | 30          | 31                       |  | 6    | -5    | 0        | 1           | 1                        | 7,500   | 0%      |
| ArrowTooth Flounder         | 2005 | 0  | 43    | 10    |          | 53          | 63                       |  | 38    | 14    |          | 52          | 62                       |  | 5    | -4    | 0        | 1           | 1                        | 12,000  | 1%      |
| <i>Sum all four species</i> | 2005 | 0  | 3,921 | 2,149 | 0        | 6,070       | 7,102                    | 0  | 4,276 | 2,856 | 0        | 7,131       | 8,080                    | 0  | -355 | -707  | 0        | -1,061      | -978                     | 244,500 | 3%      |

| SSL BiOp Area 5             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 5 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2005 | 0  | 11   | 484   | 11       | 506         | 580                      |  | 16   | 373   |          | 389         | 508                      | 0  | -5   | 111   |          | 117         | 72                       | 19,000  | 3%      |
| Pacific Cod                 | 2005 | 0  | 229  | 5,926 | 0        | 6,155       | 7,475                    |  | 308  | 5135  | 31       | 5,474       | 7,147                    | 0  | -79  | 791   | -31      | 681         | 328                      | 206,000 | 3%      |
| Atka Mackerel               | 2005 | 0  | 135  | 272   | 1        | 408         | 3,421                    |  | 144  | 321   |          | 465         | 3,631                    | 0  | -9   | -49   |          | -57         | -210                     | 7,500   | 48%     |
| ArrowTooth Flounder         | 2005 | 0  | 59   | 263   | 37       | 359         | 413                      |  | 32   | 263   | 30       | 324         | 386                      | 0  | 27   | 0     | 7        | 35          | 27                       | 12,000  | 3%      |
| <i>Sum all four species</i> | 2005 | 0  | 434  | 6,945 | 49       | 7,428       | 11,889                   | 0  | 500  | 6,092 | 61       | 6,653       | 11,671                   | 0  | -66  | 853   | -24      | 775         | 218                      | 244,500 | 5%      |

| SSL BiOp Area 6             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |        |          |             | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |        |          |             | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |        |          |             | Total<br>Catch<br>Area 6 | TAC       | CIA/TAC |
|-----------------------------|------|--|--------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|-----------|---------|
|                             |      | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          |           |         |
| Pollock                     | 2005 | 0  | 9004   | 80915  | 365,081  | 455,000     | 1,486,963                | 24   | 6,478  | 79222  | 423,718  | 509,442     | 1,484,746                | -24  | 2,526 | 1,693  | -58,637  | -54,442     | 2,217                    | 1,478,500 | 100%    |
| Pacific Cod                 | 2005 | 0  | 5,327  | 9,882  | 30,769   | 45,978      | 186,827                  | 83   | 4,513  | 13350  | 48,162   | 66,108      | 184,307                  | -83  | 814   | -3,468 | -17,393  | -20,130     | 2,520                    | 206,000   | 89%     |
| Atka Mackerel               | 2005 | 0  | 694    | 2,444  | 95       | 3,233       | 3,523                    | 6  | 291    | 1875   | 844      | 3,016       | 3,498                    | -6   | 403   | 569    | -749     | 217         | 25                       | 7,500     | 47%     |
| ArrowTooth Flounder         | 2005 | 0  | 204    | 1690   | 3,911    | 5,805       | 13,524                   | 1  | 167    | 2100   | 4,831    | 7,099       | 13,743                   | -1   | 37    | -410   | -920     | -1,294      | -219                     | 12,000    | 115%    |
| <i>Sum all four species</i> | 2005 | 0  | 15,229 | 94,931 | 399,856  | 510,016     | 1,690,837                | 114  | 11,449 | 96,547 | 477,555  | 585,665     | 1,686,294                | -114   | 3,780 | -1,616 | -77,699  | -75,649     | 4,543                    | 1,704,000 | 99%     |

| SSL BiOp Area 7             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |        |          |             | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |        |          |             | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |        |          |             | Total<br>Catch<br>Area 7 | TAC    | CIA/TAC |
|-----------------------------|------|--|--------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2005 | 920  | 9274   | 6439   |          | 16,633      | 16,708                   | 35   | 8,992  | 13173  |          | 22,200      | 29,468                   | 885  | 282  | -6,734 | 0        | -5,567      | -12,760                  | 30,380 | 97%     |
| Pacific Cod                 | 2005 | 0  | 5,973  | 3,857  |          | 9,830       | 18,070                   | 2,361  | 6,620  | 4706   |          | 13,687      | 16,756                   | -2,361   | -647 | -849   | 0        | -3,857      | 1,314                    | 15,687 | 107%    |
| Atka Mackerel               | 2005 | 0  | 0      | 120    |          | 120         | 410                      | 0  | 4      | 79     |          | 83          | 440                      | 0  | -4   | 41     | 0        | 37          | -30                      | 600    | 73%     |
| ArrowTooth Flounder         | 2005 | 31   | 768    | 293    |          | 1,092       | 2,299                    |  | 131    | 442    |          | 573         | 2,261                    | #####  | 637  | -149   | 0        | 519         | 38                       | 8,000  | 28%     |
| <i>Sum all four species</i> | 2005 | 951  | 16,015 | 10,709 | 0        | 27,675      | 37,487                   | 2,396  | 15,747 | 18,400 | 0        | 36,543      | 48,925                   | #####  | 268  | -7,691 | 0        | -8,868      | -11,438                  | 54,667 | 89%     |

| SSL BiOp Area 8             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |         |          |             | Total<br>Catch<br>Area 8 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|-------|---------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20   | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2005 | 0  | 2020  | 16953  | 467      | 19,440      | 27,370                   | 894  | 886   | 16800  | 526      | 19,106      | 27,798                   | -894   | 1,134 | 153     | -59      | 334         | -428                     | 34,404 | 81%     |
| Pacific Cod                 | 2005 | 0  | 23    | 904    | 927      | 1,854       | 1,630                    | 0  | 413   | 1259   | 1,313    | 2,984       | 4,725                    | 0  | -390  | -355    | -386     | -1,130      | -3,095                   | 25,086 | 19%     |
| Atka Mackerel               | 2005 | 0  | 0     | 2      | 0        | 2           | 379                      | 0  | 0     |        | 1        | 1           | 381                      | 0  | 0     | #VALUE! | -1       | 1           | -2                       | 600    | 64%     |
| ArrowTooth Flounder         | 2005 | 0  | 570   | 3502   | 250      | 4,322       | 5,645                    | 0  | 45    | 2275   | 334      | 2,655       | 5,632                    | 0  | 525   | 1,227   | -84      | 1,667       | 13                       | 25,000 | 23%     |
| <i>Sum all four species</i> | 2005 | 0  | 2,613 | 21,361 | 1,644    | 25,618      | 35,024                   | 895  | 1,344 | 20,334 | 2,174    | 24,746      | 38,536                   | -895   | 1,269 | #VALUE! | -530     | 872         | -3,512                   | 85,090 | 45%     |

| SSL BiOp Area 9             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |        |          |             | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |        |          |             | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |        |          |             | Total<br>Catch<br>Area 9 | TAC    | CIA/TAC |
|-----------------------------|------|--|--------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2005 | 0  | 2589   | 15995  | 308      | 18,892      | 19,147                   | 14   | 2,997  | 15750  | 345      | 19,106      | 19,700                   | -14  | -408  | 245    | -37      | -214        | -553                     | 18,718 | 105%    |
| Pacific Cod                 | 2005 | 163  | 7,489  | 4,098  | 198      | 11,948      | 24,380                   | 458  | 5,959  | 6067   | 652      | 13,136      | 24,751                   | -295   | 1,530 | -1,969 | -454     | -1,188      | -371                     | 25,086 | 99%     |
| Atka Mackerel               | 2005 | 0  | 1      | 1      | 0        | 2           | 5                        | 0  | 1      | 2      | 0        | 3           | 19                       | 0  | 0     | -1     | 0        | -1          | -14                      | 600    | 3%      |
| ArrowTooth Flounder         | 2005 | 0  | 1434   | 6484   | 959      | 8,877       | 11,486                   |  | 1,402  | 6077   | 1,126    | 8,605       | 11,747                   |  | 32    | 407    | -167     | 272         | -261                     | 25,000 | 47%     |
| <i>Sum all four species</i> | 2005 | 163  | 11,513 | 26,578 | 1,465    | 39,719      | 55,018                   | 472  | 10,360 | 27,895 | 2,122    | 40,850      | 56,218                   | -309   | 1,153 | -1,317 | -657     | -1,131      | -1,200                   | 69,404 | 81%     |

| SSL BiOp Area 10            |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC   | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|-------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |       |         |
| Pollock                     | 2005 | 0  | 412  | 1954  |          | 2,366       | 3,391                     | 0  | 339  | 2072  |          | 2,410       | 2,736                     | 0  | 73   | -118  | 0        | -44         | 655                       | 1,688 | 162%    |
| Pacific Cod                 | 2005 | 0  | 0    | 0     |          | 0           | 85                        |  |      | 13    |          | 13          | 89                        |  |      | -13   | 0        | -13         | -4                        | 3,660 | 2%      |
| Atka Mackerel               | 2005 | 0  | 0    | 0     |          | 0           | 0                         |  |      |       |          | 0           | 0                         | 0  | 0    | 0     | 0        | 0           | 0                         | 600   | 0%      |
| ArrowTooth Flounder         | 2005 | 0  | 1    | 12    |          | 13          | 82                        |  | 14   | 7     |          | 22          | 42                        |  | -13  | 5     | 0        | -9          | 40                        | 2,500 | 2%      |
| <i>Sum all four species</i> | 2005 | 0  | 413  | 1,966 | 0        | 2,379       | 3,558                     | 0  | 353  | 2,092 | 0        | 2,445       | 2,866                     | 0  | 60   | -126  | 0        | -66         | 692                       | 8,448 | 34%     |

2006

| SSL BiOp Area 1             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2006 | 0  | 51    | 37    | 0        | 88          | 216                      | 0  | 58    | 40    |          | 98          | 220                      | 0  | -7   | -3    | 0        | -10         | -4                       | 19,000  | 1%      |
| Pacific Cod                 | 2006 | 118  | 1,950 | 2,521 | 0        | 4,589       | 4,774                    | 83   | 1,523 | 2835  |          | 4,442       | 4,578                    | 35   | 427  | -314  | 0        | 147         | 196                      | 194,000 | 2%      |
| Atka Mackerel               | 2006 | 0  | 10    | 3,669 | 0        | 3,679       | 14,962                   | 0  | 13    | 3457  |          | 3,469       | 14,616                   | 0  | -3   | 212   | 0        | 210         | 346                      | 41,360  | 35%     |
| ArrowTooth Flounder         | 2006 | 0  | 22    | 42    | 0        | 64          | 170                      | 0  | 20    | 39    |          | 58          | 172                      | 0  | 2    | 3     | 0        | 6           | -2                       | 13,000  | 1%      |
| <i>Sum all four species</i> | 2006 | 118  | 2,033 | 6,269 | 0        | 8,420       | 20,122                   | 84   | 1,613 | 6,371 | 0        | 8,067       | 19,585                   | 34   | 420  | -102  | 0        | 353         | 537                      | 267,360 | 7%      |

| SSL BiOp Area 2             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |        |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |        |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |        |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |
|-----------------------------|------|--|------|--------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|---------|---------|
|                             |      | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2006 | 0  | 0    | 67     | 0        | 67          | 198                      |  | 5    | 81     |          | 86          | 199                      |  | -5   | -14    | 0        | -19         | -1                       | 19,000  | 1%      |
| Pacific Cod                 | 2006 | 0  | 253  | 831    | 0        | 1,084       | 1,647                    |  | 366  | 765    |          | 1,131       | 1,671                    |  | -113 | 66     | 0        | -47         | -24                      | 194,000 | 1%      |
| Atka Mackerel               | 2006 | 0  | 9    | 16,024 | 0        | 16,033      | 36,602                   |  | 293  | 17229  |          | 17,522      | 37,119                   |  | -284 | -1,205 | 0        | -1,489      | -517                     | 46,860  | 79%     |
| ArrowTooth Flounder         | 2006 | 0  | 2    | 13     | 0        | 15          | 522                      |  | 2    | 13     |          | 15          | 653                      |  | 0    | 0      | 0        | 0           | -131                     | 13,000  | 5%      |
| <i>Sum all four species</i> | 2006 | 0  | 264  | 16,935 | 0        | 17,199      | 38,969                   | 0  | 665  | 18,089 | 0        | 18,754      | 39,642                   | 0  | -401 | -1,154 | 0        | -1,555      | -673                     | 272,860 | 15%     |

| SSL BiOp Area 3             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |       |             | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 3 | TAC | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|-----|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging |       | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |     |         |
| Pollock                     | 2006 | 10   | 65   | 1     |          | 76    | 76          | 9                        | 227  | 42    |       | 277      | 277         | 1                        | -162   | -41  | 0     | -201     | -201        | 19,000                   | 1%  |         |
| Pacific Cod                 | 2006 | 2  | 384  | 581   |          | 967   | 967         | 13                       | 1,806  | 1072  |       | 2,890    | 2,895       | -11                      | -1,422   | -491 | 0     | -1,923   | -1,928      | 194,000                  | 1%  |         |
| Atka Mackerel               | 2006 | 0  | 357  | 2,311 |          | 2,668 | 2,668       | 0                        | 402  | 2334  |       | 2,736    | 2,736       | 0                        | -45  | -23  | 0     | -68      | -68         | 46,860                   | 6%  |         |
| ArrowTooth Flounder         | 2006 | 13   | 130  | 53    |          | 196   | 195         | 11                       | 114  | 47    |       | 173      | 175         | 2                        | 16   | 6    | 0     | 23       | 20          | 13,000                   | 1%  |         |
| <i>Sum all four species</i> | 2006 | 25   | 936  | 2,946 | 0        | 3,907 | 3,906       | 33                       | 2,549  | 3,495 | 0     | 6,077    | 6,084       | -8                       | -1,613   | -549 | 0     | -2,170   | -2,178      | 272,860                  | 2%  |         |

| SSL BiOp Area 4             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |       |             | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 4 | TAC | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|-----|---------|
|                             |      | 0-3  | 3-10  | 10-20 | Foraging |       | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |     |         |
| Pollock                     | 2006 | 0  | 105   | 11    |          | 116   | 122         | 0                        | 58   | 531   |       | 589      | 926         | 0                        | 47   | -520 | 0     | -473     | -804        | 19,000                   | 5%  |         |
| Pacific Cod                 | 2006 | 74   | 3,112 | 1,804 |          | 4,990 | 6,042       | 93                       | 2,882  | 1905  |       | 4,880    | 5,965       | -19                      | 230  | -101 | 0     | 110      | 77          | 194,000                  | 3%  |         |
| Atka Mackerel               | 2006 | 0  | 36    | 21    |          | 57    | 58          | 0                        | 40   | 10    |       | 51       | 51          | 0                        | -4   | 11   | 0     | 6        | 7           | 21,780                   | 0%  |         |
| ArrowTooth Flounder         | 2006 | 0  | 82    | 45    |          | 127   | 144         |                          | 35   | 35    |       | 70       | 85          |                          | 47   | 10   | 0     | 57       | 59          | 13,000                   | 1%  |         |
| <i>Sum all four species</i> | 2006 | 74   | 3,335 | 1,881 | 0        | 5,290 | 6,366       | 93                       | 3,015  | 2,481 | 0     | 5,590    | 7,027       | -19                      | 320  | -600 | 0     | -300     | -661        | 247,780                  | 3%  |         |

| SSL BiOp Area 5             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |        |             | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |       |          |             | Total<br>Catch<br>Area 5 | TAC | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|--------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|-----|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging |        | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          |     |         |
| Pollock                     | 2006 | 0  | 0    | 1073  | 2        | 1,075  | 1,115       | 0                        | 0  | 66    |       | 66       | 123         | 0                        | 0  | 1,007 |       | 1,009    | 992         | 19,000                   | 1%  |         |
| Pacific Cod                 | 2006 | 0  | 115  | 8,170 | 3        | 8,288  | 10,369      |                          | 99   | 7311  | 5     | 7,415    | 9,081       |                          | 16   | 859   | -2    | 873      | 1,288       | 194,000                  | 5%  |         |
| Atka Mackerel               | 2006 | 0  | 7    | 350   | 0        | 357    | 4,280       |                          |  | 379   |       | 379      | 4,195       |                          | #VALUE!  | -29   |       | -22      | 85          | 21,780                   | 19% |         |
| ArrowTooth Flounder         | 2006 | 0  | 59   | 214   | 36       | 309    | 420         |                          | 24   | 228   | 31    | 283      | 391         |                          | 35   | -14   | 5     | 26       | 29          | 13,000                   | 3%  |         |
| <i>Sum all four species</i> | 2006 | 0  | 181  | 9,807 | 41       | 10,029 | 16,184      | 0                        | 123  | 7,984 | 36    | 8,142    | 13,790      | 0                        | #VALUE!  | 1,823 | 3     | 1,887    | 2,394       | 247,780                  | 6%  |         |

| SSL BiOp Area 6             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |        |         |          |             | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |         |          |             | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |        |          |             | Total<br>Catch<br>Area 6 | TAC       | CIA/TAC |
|-----------------------------|------|--|--------|---------|----------|-------------|--------------------------|--|--------|---------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|-----------|---------|
|                             |      | 0-3  | 3-10   | 10-20   | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20   | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          |           |         |
| Pollock                     | 2006 | 0  | 7110   | 117441  | 276,173  | 400,724     | 1,494,547                | 11   | 6,381  | 106638  | 327,874  | 440,904     | 1,490,047                | -11  | 729   | 10,803 | -51,701  | -40,180     | 4,500                    | 1,485,000 | 100%    |
| Pacific Cod                 | 2006 | 8  | 4,953  | 8,365   | 24,188   | 37,514      | 175,226                  | 79   | 4,478  | 12912   | 43,717   | 61,186      | 171,098                  | -71  | 475   | -4,547 | -19,529  | -23,672     | 4,128                    | 194,000   | 88%     |
| Atka Mackerel               | 2006 | 0  | 410    | 2,009   | 124      | 2,543       | 3,142                    | 9  | 352    | 1316    | 1,083    | 2,760       | 3,188                    | -9   | 58    | 693    | -959     | -217        | -46                      | 21,780    | 15%     |
| ArrowTooth Flounder         | 2006 | 0  | 127    | 1268    | 3,237    | 4,632       | 11,936                   | 0  | 119    | 1338    | 3,844    | 5,302       | 12,295                   | 0  | 8     | -70    | -607     | -670        | -359                     | 13,000    | 95%     |
| <i>Sum all four species</i> | 2006 | 8  | 12,600 | 129,083 | 303,722  | 445,413     | 1,684,851                | 100  | 11,330 | 122,204 | 376,519  | 510,152     | 1,676,628                | -92  | 1,270 | 6,879  | -72,797  | -64,739     | 8,223                    | 1,713,780 | 98%     |

| SSL BiOp Area 7             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 7 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2006 | 0  | 2643  | 7087   |          | 9,730       | 16,577                   |  | 2,038 | 12271  |          | 14,309      | 21,323                   |  | 605    | -5,184 | 0        | -4,579      | -4,746                   | 29,187 | 73%     |
| Pacific Cod                 | 2006 | 0  | 2,491 | 6,831  |          | 9,322       | 15,842                   | 2,831  | 7,033 | 5605   |          | 15,469      | 17,478                   | -2,831   | -4,542 | 1,226  | 0        | -6,147      | -1,636                   | 20,141 | 87%     |
| Atka Mackerel               | 2006 | 0  | 0     | 81     |          | 81          | 556                      | 0  | 2     | 51     |          | 53          | 553                      | 0  | -2     | 30     | 0        | 28          | 3                        | 1,500  | 37%     |
| ArrowTooth Flounder         | 2006 | 0  | 245   | 194    |          | 439         | 1,765                    | 4  | 162   | 289    |          | 454         | 1,887                    | -4   | 83     | -95    | 0        | -15         | -122                     | 8,000  | 24%     |
| <i>Sum all four species</i> | 2006 | 0  | 5,379 | 14,193 | 0        | 19,572      | 34,740                   | 2,835  | 9,235 | 18,216 | 0        | 30,286      | 41,241                   | -2,835   | -3,856 | -4,023 | 0        | -10,714     | -6,501                   | 58,828 | 70%     |

| SSL BiOp Area 8             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |        |          |             | Total<br>Catch<br>Area 8 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2006 | 0  | 1227  | 18751  | 476      | 20,454      | 25,831                   | 108  | 1,367 | 16442  | 590      | 18,506      | 25,243                   | -108   | -140 | 2,309  | -114     | 1,948       | 588                      | 30,775 | 82%     |
| Pacific Cod                 | 2006 | 0  | 8     | 792    | 1,766    | 2,566       | 3,935                    | 421  | 632   | 1800   | 1,784    | 4,637       | 7,131                    | -421   | -624 | -1,008 | -18      | -2,071      | -3,196                   | 28,405 | 25%     |
| Atka Mackerel               | 2006 | 0  | 0     | 3      | 0        | 3           | 269                      | 0  | 0     | 0      |          | 0           | 270                      | 0  | 0    | 3      |          | 3           | -1                       | 25,000 | 1%      |
| ArrowTooth Flounder         | 2006 | 0  | 166   | 5880   | 1,024    | 7,070       | 8,397                    |  | 114   | 4180   | 571      | 4,865       | 8,174                    |  | 52   | 1,700  | 453      | 2,205       | 223                      |        |         |
| <i>Sum all four species</i> | 2006 | 0  | 1,401 | 25,426 | 3,266    | 30,093      | 38,432                   | 530  | 2,113 | 22,422 | 2,944    | 28,009      | 40,817                   | -530   | -712 | 3,004  | 322      | 2,084       | -2,385                   | 84,180 | 48%     |

| SSL BiOp Area 9             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |        |          |             | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 9 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2006 | 164  | 2517  | 12972  | 53       | 15,706      | 17,110                   | 133  | 3,357  | 13557  | 130      | 17,177      | 19,002                   | 31   | -840   | -585   | -77      | -1,471      | -1,892                   | 18,619 | 102%    |
| Pacific Cod                 | 2006 | 127  | 1,817 | 4,410  | 37       | 6,391       | 19,968                   | 1,166  | 5,929  | 5699   | 339      | 13,134      | 20,431                   | -1,039   | -4,112 | -1,289 | -302     | -6,743      | -463                     | 28,405 | 72%     |
| Atka Mackerel               | 2006 | 0  | 8     | 12     | 0        | 20          | 45                       | 0  | 20     | 5      | 0        | 25          | 47                       | 0  | -12    | 7      | 0        | -5          | -2                       | 25,000 | 0%      |
| ArrowTooth Flounder         | 2006 | 59   | 3784  | 6720   | 1,235    | 11,798      | 17,087                   | 24   | 3,498  | 7686   | 367      | 11,575      | 17,245                   | 35   | 286    | -966   | 868      | 223         | -158                     | 0      |         |
| <i>Sum all four species</i> | 2006 | 350  | 8,126 | 24,114 | 1,325    | 33,915      | 54,210                   | 1,324  | 12,804 | 26,947 | 837      | 41,911      | 56,726                   | -974   | -4,678 | -2,833 | 488      | -7,996      | -2,516                   | 72,024 | 79%     |

| SSL BiOp Area 10            |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC   | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|-------|---------|
|                             |      | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |       |         |
| Pollock                     | 2006 | 0  | 576  | 626   | 1,202    | 2,404       | 4,237                     |  | 578  | 850   |          | 1,428       | 3,048                     |  | -2   | -224  | 1,202    | 976         | 1,189                     | 1,809 | 168%    |
| Pacific Cod                 | 2006 | 0  | 327  | 65    |          | 392         | 402                       | C  | 199  | 18    |          | 217         | 266                       |  | 128  | 47    | 0        | 175         | 136                       | 3,718 | 7%      |
| Atka Mackerel               | 2006 | 0  | 0    | 0     |          | 0           | 0                         | 0  | 0    |       | 0        | 0           | 0                         | 0  | 0    | 0     | 0        | 0           | 0                         | 1,500 | 0%      |
| ArrowTooth Flounder         | 2006 | 0  | 1    | 24    |          | 25          | 85                        | 0  | 13   | 14    |          | 27          | 57                        | 0  | -12  | 10    | 0        | -2          | 28                        | 2,500 | 2%      |
| <i>Sum all four species</i> | 2006 | 0  | 904  | 715   | 1,202    | 2,821       | 4,724                     | 0  | 791  | 881   | 0        | 1,672       | 3,370                     |  | 113  | -166  | 1,202    | 1,149       | 1,354                     | 9,527 | 35%     |

2007

| SSL BiOp Area 1             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |    |
|-----------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|----|
|                             | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |    |
| Pollock                     | 2007   | 0    | 7     | 50       | 0           | 57                       | 122  | 0    | 6     | 52       | 58          | 123                      | 0  | 1    | -2    | 0        | -1          | -1                       | 19,000  | 1%      |    |
| Pacific Cod                 | 2007   | 37   | 1,445 | 3,691    | 0           | 5,173                    | 5,446  | 27   | 1,321 | 3339     | 4,687       | 4,992                    | 10   | 124  | 352   | 0        | 486         | 454                      | 170,720 | 3%      |    |
| Atka Mackerel               | 2007   | 0    | 3     | 3,904    | 0           | 3,907                    | 9,401  | 0    | 2     | 3666     | 3,668       | 9,102                    | 0  | 1    | 238   | 0        | 239         | 299                      | 9,600   | 95%     |    |
| ArrowTooth Flounder         | 2007   | 0    | 10    | 15       | 0           | 25                       | 106  | C    | 12    | 27       | 39          | 118                      |  | -2   | -12   | 0        | -14         | -12                      | 20,000  | 1%      |    |
| <i>Sum all four species</i> | 2007   | 37   | 1,465 | 7,660    | 0           | 9,162                    | 15,075   | 28   | 1,341 | 7,083    | 0           | 8,452                    | 14,335   |      | 124   | 577      | 0           | 710                      | 740     | 219,320 | 7% |

| SSL BiOp Area 2             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |       |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |        |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |     |
|-----------------------------|--|------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|---------|---------|-----|
|                             | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          |         |         |     |
| Pollock                     | 2007   | 0    | 34    | 44       | 0           | 78                       | 209  | 0    | 36    | 44       | 80          | 213                      | 0  | -2   | 0      | 0        | -2          | -4                       | 19,000  | 1%      |     |
| Pacific Cod                 | 2007   | 5    | 565   | 889      | 0           | 1,459                    | 2,247  | 45   | 775   | 875      | 1,696       | 2,419                    | -40  | -210 | 14     | 0        | -237        | -172                     | 170,720 | 1%      |     |
| Atka Mackerel               | 2007   | 0    | 10    | 7,572    | 0           | 7,582                    | 21,461   | 0    | 192   | 8768     | 8,960       | 22,494                   | 0  | -182 | -1,196 | 0        | -1,378      | -1,033                   | 29,600  | 76%     |     |
| ArrowTooth Flounder         | 2007   | 0    | 13    | 32       | 0           | 45                       | 171  | 0    | 10    | 31       | 41          | 159                      | 0  | 3    | 1      | 0        | 4           | 12                       | 20,000  | 1%      |     |
| <i>Sum all four species</i> | 2007   | 5    | 622   | 8,537    | 0           | 9,164                    | 24,088   | 45   | 1,014 | 9,718    | 0           | 10,777                   | 25,284   | -40  | -392   | -1,181   | 0           | -1,613                   | -1,196  | 239,320 | 11% |

| SSL BiOp Area 3             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |      |       | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |     |       |       | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |     |      |     | Total<br>Catch<br>Area 3 | TAC  | CIA/TAC |         |     |
|-----------------------------|--|------|-----|------|-------|--------------------------|--|-------|-----|-------|-------|--------------------------|--|-------|-----|------|-----|--------------------------|------|---------|---------|-----|
|                             | Gear   | Year | 0-3 | 3-10 | 10-20 | Foraging                 | Total<br>CH  |       |     |       |       |                          |  |       |     |      |     |                          |      |         |         |     |
|                             |  |      |     |      |       |                          |  |       |     |       |       |                          |  |       |     |      |     |                          |      |         |         |     |
| Pollock                     | 2007   |      | 14  | 184  | 36    |                          | 234  | 235   | 63  | 169   | 24    |                          | 255  | 256   | -49 | 15   | 12  | 0                        | -21  | -21     | 19,000  | 1%  |
| Pacific Cod                 | 2007   |      | 7   | 514  | 1,071 |                          | 1,592  | 1,610 | 106 | 1,011 | 1,090 |                          | 2,207  | 2,227 | -99 | -497 | -19 | 0                        | -615 | -617    | 170,720 | 1%  |
| Atka Mackerel               | 2007   |      | 85  | 243  | 4,054 |                          | 4,382  | 4,381 | 30  | 163   | 4,005 |                          | 4,198  | 4,224 | 55  | 80   | 49  | 0                        | 184  | 157     | 29,600  | 14% |
| ArrowTooth Flounder         | 2007   |      | 10  | 39   | 39    |                          | 88   | 92    | 7   | 34    | 40    |                          | 81   | 86    | 3   | 5    | -1  | 0                        | 7    | 6       | 20,000  | 0%  |
| <i>Sum all four species</i> | 2007   |      | 116 | 980  | 5,200 | 0                        | 6,296  | 6,318 | 206 | 1,377 | 5,158 | 0                        | 6,742  | 6,793 | -90 | -397 | 42  | 0                        | -446 | -475    | 239,320 | 3%  |

| SSL BiOp Area 4             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |       |       | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |     |       |       | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |      |        |        | Total<br>Catch<br>Area 4 | TAC    | CIA/TAC |         |    |
|-----------------------------|--|------|-----|-------|-------|--------------------------|--|--------|-----|-------|-------|--------------------------|--|--------|------|--------|--------|--------------------------|--------|---------|---------|----|
|                             | Gear   | Year | 0-3 | 3-10  | 10-20 | Foraging                 | Total<br>CH  |        |     |       |       |                          |  |        |      |        |        |                          |        |         |         |    |
|                             |  |      |     |       |       |                          |  |        |     |       |       |                          |  |        |      |        |        |                          |        |         |         |    |
| Pollock                     | 2007   |      | 0   | 11    | 3     |                          | 14   | 919    | 0   | 130   | 503   |                          | 633  | 1,001  | 0    | -119   | -500   | 0                        | -619   | -82     | 19,000  | 5% |
| Pacific Cod                 | 2007   |      | 6   | 5,000 | 3,623 |                          | 8,629  | 10,501 | 125 | 6,517 | 4,502 |                          | 11,145   | 13,069 | -119 | -1,517 | -879   | 0                        | -2,516 | -2,568  | 170,720 | 8% |
| Atka Mackerel               | 2007   |      | 0   | 20    | 4     |                          | 24   | 26     | 0   | 19    | 6     |                          | 25   | 26     | 0    | 1      | -2     | 0                        | -1     | 0       | 23,800  | 0% |
| ArrowTooth Flounder         | 2007   |      | 0   | 36    | 25    |                          | 61   | 71     |     | 47    | 45    |                          | 91   | 111    |      | -11    | -20    | 0                        | -30    | -40     | 20,000  | 1% |
| <i>Sum all four species</i> | 2007   |      | 6   | 5,067 | 3,655 | 0                        | 8,728  | 11,517 | 126 | 6,713 | 5,056 | 0                        | 11,894   | 14,207 | -120 | -1,646 | -1,401 | 0                        | -3,166 | -2,690  | 233,520 | 6% |

| SSL BiOp Area 5             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |      |        | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |   |     |       | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |   |    |       | Total<br>Catch<br>Area 5 | TAC   | CIA/TAC |         |     |
|-----------------------------|--|------|-----|------|--------|--------------------------|--|--------|---|-----|-------|--------------------------|--|--------|---|----|-------|--------------------------|-------|---------|---------|-----|
|                             | Gear   | Year | 0-3 | 3-10 | 10-20  | Foraging                 | Total<br>CH  |        |   |     |       |                          |  |        |   |    |       |                          |       |         |         |     |
|                             |  |      |     |      |        |                          |  |        |   |     |       |                          |  |        |   |    |       |                          |       |         |         |     |
| Pollock                     | 2007   |      | 0   | 30   | 548    | 5                        | 583  | 1,038  |   | 14  | 557   |                          | 571  | 927    | 0 | 16 | -9    |                          | 12    | 111     | 19,000  | 5%  |
| Pacific Cod                 | 2007   |      | 8   | 135  | 9,557  | 1                        | 9,701  | 13,317 |   | 105 | 7620  | 34                       | 7,759  | 11,343 |   | 30 | 1,937 | -33                      | 1,942 | 1,974   | 170,720 | 7%  |
| Atka Mackerel               | 2007   |      | 0   | 94   | 315    | 0                        | 409  | 20,298 |   | 100 | 310   | 0                        | 411  | 19,896 |   | -6 | 5     | 0                        | -2    | 402     | 23,800  | 84% |
| ArrowTooth Flounder         | 2007   |      | 0   | 30   | 109    | 32                       | 171  | 360    |   | 22  | 139   | 30                       | 190  | 360    | 0 | 8  | -30   | 2                        | -19   | 0       | 20,000  | 2%  |
| <i>Sum all four species</i> | 2007   |      | 8   | 289  | 10,529 | 38                       | 10,864   | 35,013 | 0 | 241 | 8,627 | 64                       | 8,931  | 32,526 | 0 | 48 | 1,902 | -31                      | 1,933 | 2,487   | 233,520 | 14% |

| SSL BiOp Area 6             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |         |          |             | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |         |          |             | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 6 | TAC       | CIA/TAC |
|-----------------------------|------|--|-------|---------|----------|-------------|--------------------------|--|-------|---------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|-----------|---------|
|                             |      | 0-3  | 3-10  | 10-20   | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20   | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |           |         |
| Pollock                     | 2007 | 0  | 2653  | 120356  | 300,327  | 423,336     | 1,352,127                | 11   | 2,636 | 111297  | 330,621  | 444,566     | 1,354,857                | -11  | 17     | 9,059  | -30,294  | -21,230     | -2,730                   | 1,394,000 | 97%     |
| Pacific Cod                 | 2007 | 3  | 1,470 | 9,241   | 24,089   | 34,803      | 141,879                  | 113  | 2,652 | 12516   | 29,045   | 44,325      | 143,789                  | -110   | -1,182 | -3,275 | -4,956   | -9,522      | -1,910                   | 170,720   | 84%     |
| Atka Mackerel               | 2007 | 0  | 402   | 2,080   | 484      | 2,966       | 3,025                    | 0  | 246   | 1990    | 621      | 2,857       | 3,038                    | 0  | 156    | 90     | -137     | 109         | -13                      | 23,800    | 13%     |
| ArrowTooth Flounder         | 2007 | 0  | 108   | 2028    | 2,820    | 4,956       | 11,248                   | 1  | 131   | 2239    | 2,620    | 4,991       | 11,676                   | -1   | -23    | -211   | 200      | -35         | -428                     | 20,000    | 58%     |
| <i>Sum all four species</i> | 2007 | 3  | 4,633 | 133,705 | 327,720  | 466,061     | 1,508,279                | 125  | 5,665 | 128,042 | 362,907  | 496,739     | 1,513,360                | -122   | -1,032 | 5,663  | -35,187  | -30,678     | -5,081                   | 1,608,520 | 94%     |

| SSL BiOp Area 7             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 7 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|
|                             |      | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2007 | 709  | 2166  | 4716   |          | 7,591       | 16,708                   | 14   | 2,744 | 10755  |          | 13,513      | 17,447                   | 695  | -578   | -6,039 | 0        | -5,922      | -739                     | 25,012 | 70%     |
| Pacific Cod                 | 2007 | 0  | 1,514 | 13,566 |          | 15,080      | 21,860                   | 2,329  | 5,310 | 5103   |          | 12,742      | 15,651                   | -2,329   | -3,796 | 8,463  | 0        | 2,338       | 6,209                    | 20,141 | 78%     |
| Atka Mackerel               | 2007 | 0  | 0     | 510    |          | 510         | 1,274                    | 0  | 58    | 535    |          | 594         | 1,267                    | 0  | -58    | -25    | 0        | -84         | 7                        | 1,500  | 84%     |
| ArrowTooth Flounder         | 2007 | 95   | 270   | 542    |          | 907         | 2,723                    | 5  | 86    | 601    |          | 692         | 2,568                    | 90   | 184    | -59    | 0        | 215         | 155                      | 8,000  | 32%     |
| <i>Sum all four species</i> | 2007 | 804  | 3,950 | 19,334 | 0        | 24,088      | 42,565                   | 2,348  | 8,199 | 16,995 | 0        | 27,542      | 36,933                   | -1,544   | -4,249 | 2,339  | 0        | -3,454      | 5,632                    | 54,653 | 68%     |

| SSL BiOp Area 8             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |       |       | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |        |          | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 8 | TAC    | CIA/TAC |     |  |  |  |
|-----------------------------|--|------|-------|-------|-------|--------------------------|--|-------|-------|--------|----------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|-----|--|--|--|
|                             |  |      |       |       |       |                          |  |       |       |        |          |                          |  |        |        |          |             |                          |        |         |     |  |  |  |
|                             | Gear   | Year | 0-3   | 3-10  | 10-20 | Foraging                 | Total<br>CH  | 0-3   | 3-10  | 10-20  | Foraging | Total<br>CH              | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |     |  |  |  |
| Pollock                     | 2007   | 0    | 5550  | 8179  | 407   | 14,136                   | 17,381   | 1     | 3,276 | 8948   | 376      | 12,601                   | 17,839   | -1     | 2,274  | -769     | 31          | 1,535                    | -458   | 20,890  | 85% |  |  |  |
| Pacific Cod                 | 2007   | 0    | 15    | 36    | 2,175 | 2,226                    | 4,063  | 1,091 | 1,526 | 2552   | 1,609    | 6,778                    | 9,787  | -1,091 | -1,511 | -2,516   | 566         | -4,552                   | -5,724 | 28,405  | 34% |  |  |  |
| Atka Mackerel               | 2007   | 0    | 0     | 0     | 0     | 0                        | 154  | 0     | 0     | 0      | 0        | 1                        | 155  | 0      | 0      | 0        | 0           | -1                       | -1     | 1,500   | 10% |  |  |  |
| ArrowTooth Flounder         | 2007   | 0    | 75    | 1535  | 2,272 | 3,882                    | 5,295  | 1     | 52    | 857    | 2,700    | 3,610                    | 5,414  | -1     | 23     | 678      | -428        | 272                      | -119   | 25,000  | 22% |  |  |  |
| <i>Sum all four species</i> | 2007   | 0    | 5,640 | 9,750 | 4,854 | 20,244                   | 26,893   | 1,094 | 4,854 | 12,357 | 4,684    | 22,990                   | 33,194   | -1,094 | 786    | -2,607   | 170         | -2,746                   | -6,301 | 75,795  | 44% |  |  |  |

| SSL BiOp Area 9             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |        |       | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |        |          | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 9 | TAC | CIA/TAC |      |  |  |  |
|-----------------------------|--|------|-------|--------|-------|--------------------------|--|-------|--------|--------|----------|--------------------------|--|--------|--------|----------|-------------|--------------------------|-----|---------|------|--|--|--|
|                             |  |      |       |        |       |                          |  |       |        |        |          |                          |  |        |        |          |             |                          |     |         |      |  |  |  |
|                             | Gear   | Year | 0-3   | 3-10   | 10-20 | Foraging                 | Total<br>CH  | 0-3   | 3-10   | 10-20  | Foraging | Total<br>CH              | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |     |         |      |  |  |  |
| Pollock                     | 2007   | 0    | 1446  | 13473  | 43    | 14,962                   | 16,184   | 143   | 2,199  | 11679  | 150      | 14,170                   | 16,003   | -143   | -753   | 1,794    | -107        | 792                      | 181 | 14,850  | 108% |  |  |  |
| Pacific Cod                 | 2007   | 13   | 3,426 | 8,283  | 0     | 11,722                   | 21,968   | 905   | 5,409  | 6995   | 609      | 13,918                   | 21,838   | -892   | -1,983 | 1,288    | -609        | -2,196                   | 130 | 28,405  | 77%  |  |  |  |
| Atka Mackerel               | 2007   | 0    | 12    | 3      | 0     | 15                       | 21   | 0     | 5      | 8      | 0        | 13                       | 21   | 0      | 7      | -5       | 0           | 2                        | 0   | 1,500   | 1%   |  |  |  |
| ArrowTooth Flounder         | 2007   | 19   | 3733  | 6128   | 0     | 9,880                    | 16,764   | 13    | 2,569  | 6047   | 1,001    | 9,630                    | 16,799   | 6      | 1,164  | 81       | -1,001      | 250                      | -35 | 25,000  | 67%  |  |  |  |
| <i>Sum all four species</i> | 2007   | 32   | 8,617 | 27,887 | 43    | 36,579                   | 54,937   | 1,061 | 10,180 | 24,729 | 1,761    | 37,732                   | 54,662   | -1,029 | -1,563 | 3,158    | -1,718      | -1,153                   | 275 | 69,755  | 78%  |  |  |  |

| SSL BiOp Area 10            | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |      |       | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |     |      |       |          | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC  | CIA/TAC |     |  |  |  |
|-----------------------------|--|------|-----|------|-------|---------------------------|--|-----|------|-------|----------|---------------------------|--|------|-------|----------|-------------|---------------------------|------|---------|-----|--|--|--|
|                             |  |      |     |      |       |                           |  |     |      |       |          |                           |  |      |       |          |             |                           |      |         |     |  |  |  |
|                             | Gear   | Year | 0-3 | 3-10 | 10-20 | Foraging                  | Total<br>CH  | 0-3 | 3-10 | 10-20 | Foraging | Total<br>CH               | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |      |         |     |  |  |  |
| Pollock                     | 2007   | 0    | 41  | 386  |       | 427                       | 596  | 0   |      | 9     |          | 9                         | 95   | 0    |       | 377      |             | 418                       | 501  | 1,398   | 7%  |  |  |  |
| Pacific Cod                 | 2007   | 0    | 54  | 284  |       | 338                       | 433  | 41  | 437  | 186   |          | 664                       | 752  | -41  | -383  | 98       | 0           | -326                      | -319 | 3,718   | 20% |  |  |  |
| Atka Mackerel               | 2007   | 0    | 0   | 0    |       | 0                         | 0  | 0   | 0    | 0     |          | 0                         | 0  | 0    | 0     | 0        | 0           | 0                         | 0    | 1,500   | 0%  |  |  |  |
| ArrowTooth Flounder         | 2007   | 0    | 0   | 24   |       | 24                        | 149  | 7   | 6    | 16    |          | 29                        | 95   | -7   | -6    | 8        | 0           | -5                        | 54   | 2,500   | 4%  |  |  |  |
| <i>Sum all four species</i> | 2007   | 0    | 95  | 694  | 0     | 789                       | 1,578  | 48  | 443  | 210   | 0        | 702                       | 942  | -48  | -389  | 484      | 0           | 87                        | 236  | 9,116   | 10% |  |  |  |

2008

| SSL BiOp Area 1             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>1 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 1 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 1 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2008 | 0  | 36    | 34     | 0        | 70          | 114                      | 0  | 41    | 28     |          | 69          | 113                      | 0  | -5   | 6     | 0        | 1           | 1                        | 19,000  | 1%      |
| Pacific Cod                 | 2008 | 0  | 2,917 | 5,793  | 0        | 8,710       | 9,151                    | 7  | 2,525 | 4,459  |          | 6,991       | 7,284                    | -7   | 392  | 1,334 | 0        | 1,719       | 1,867                    | 170,720 | 4%      |
| Atka Mackerel               | 2008 | 0  | 15    | 5,940  | 0        | 5,955       | 16,509                   |  | 10    | 5,714  |          | 5,723       | 16,269                   | 0  | 5    | 226   | 0        | 232         | 240                      | 16,900  | 96%     |
| ArrowTooth Flounder         | 2008 | 0  | 21    | 25     | 0        | 46          | 200                      | 0  | 28    | 39     |          | 67          | 202                      | 0  | -7   | -14   | 0        | -21         | -2                       | 75,000  | 0%      |
| <i>Sum all four species</i> | 2008 | 0  | 2,989 | 11,792 | 0        | 14,781      | 25,974                   | 8  | 2,603 | 10,239 | 0        | 12,850      | 23,868                   | -8   | 386  | 1,553 | 0        | 1,931       | 2,106                    | 281,620 | 8%      |

| SSL BiOp Area 2             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |       |          |             | Total<br>Catch Area<br>2 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 2 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 2 | TAC     | CIA/TAC |
|-----------------------------|------|--|-------|-------|----------|-------------|--------------------------|--|-------|-------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|---------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |         |         |
| Pollock                     | 2008 | 0  | 2     | 31    | 0        | 33          | 123                      | 0  | 2     | 31    |          | 33          | 123                      | 0  | 0    | 0     | 0        | 0           | 0                        | 19,000  | 1%      |
| Pacific Cod                 | 2008 | 50   | 1,894 | 585   | 0        | 2,529       | 2,870                    | 379  | 2,629 | 696   |          | 3,703       | 4,000                    | -329   | -735 | -111  | 0        | -1,174      | -1,130                   | 170,720 | 2%      |
| Atka Mackerel               | 2008 | 0  | 167   | 8,404 | 0        | 8,571       | 17,917                   | 1  | 142   | 8,625 |          | 8,768       | 18,137                   | -1   | 25   | -221  | 0        | -197        | -220                     | 24,300  | 75%     |
| ArrowTooth Flounder         | 2008 | 0  | 3     | 34    | 0        | 37          | 91                       | 0  | 4     | 30    |          | 34          | 83                       | 0  | -1   | 4     | 0        | 3           | 8                        | 75,000  | 0%      |
| <i>Sum all four species</i> | 2008 | 50   | 2,066 | 9,054 | 0        | 11,170      | 21,001                   | 380  | 2,777 | 9,382 | 0        | 12,539      | 22,344                   | -330   | -711 | -328  | 0        | -1,369      | -1,343                   | 289,020 | 8%      |

| SSL BiOp Area 3             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |       |       | Total<br>Catch Area<br>3 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |     |       |       | Total<br>Catch<br>Area 3 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |      |     |      | Total<br>Catch<br>Area 3 | TAC  | CIA/TAC |         |     |
|-----------------------------|--|------|-----|-------|-------|--------------------------|--|-------|-----|-------|-------|--------------------------|--|-------|------|-----|------|--------------------------|------|---------|---------|-----|
|                             | Gear   | Year | 0-3 | 3-10  | 10-20 | Foraging                 | Total<br>CH  |       |     |       |       |                          |  |       |      |     |      |                          |      |         |         |     |
|                             |  |      |     |       |       |                          |  |       |     |       |       |                          |  |       |      |     |      |                          |      |         |         |     |
| Pollock                     | 2008   |      | 7   | 125   | 36    |                          | 168  | 168   | 4   | 141   | 14    |                          | 159  | 160   | 3    | -16 | 22   | 0                        | 9    | 8       | 19,000  | 1%  |
| Pacific Cod                 | 2008   |      | 0   | 1,100 | 340   |                          | 1,440  | 1,441 | 122 | 1,026 | 450   |                          | 1,598  | 1,625 | -122 | 74  | -110 | 0                        | -158 | -184    | 170,720 | 1%  |
| Atka Mackerel               | 2008   |      | 0   | 113   | 4,447 |                          | 4,560  | 4,560 | 0   | 96    | 4,468 |                          | 4,564  | 4,564 | 0    | 17  | -21  | 0                        | -4   | -4      | 24,300  | 19% |
| ArrowTooth Flounder         | 2008   |      | 3   | 87    | 54    |                          | 144  | 148   | 2   | 76    | 63    |                          | 141  | 144   | 1    | 11  | -9   | 0                        | 3    | 4       | 75,000  | 0%  |
| <i>Sum all four species</i> | 2008   |      | 10  | 1,425 | 4,877 | 0                        | 6,312  | 6,317 | 128 | 1,339 | 4,996 | 0                        | 6,462  | 6,493 | -118 | 86  | -119 | 0                        | -149 | -176    | 289,020 | 2%  |

| SSL BiOp Area 4             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |       |       | Total<br>Catch Area<br>4 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |     |       |       | Total<br>Catch<br>Area 4 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |       |      |      |        | Total<br>Catch<br>Area 4 | TAC    | CIA/TAC |         |    |
|-----------------------------|--|------|-----|-------|-------|--------------------------|--|-------|-----|-------|-------|--------------------------|--|-------|------|------|--------|--------------------------|--------|---------|---------|----|
|                             | Gear   | Year | 0-3 | 3-10  | 10-20 | Foraging                 | Total<br>CH  |       |     |       |       |                          |  |       |      |      |        |                          |        |         |         |    |
|                             |  |      |     |       |       |                          |  |       |     |       |       |                          |  |       |      |      |        |                          |        |         |         |    |
| Pollock                     | 2008   |      | 0   | 22    | 47    |                          | 69   | 470   | 0   | 5     | 178   |                          | 183  | 407   | 0    | 17   | -131   | 0                        | -114   | 63      | 19,000  | 2% |
| Pacific Cod                 | 2008   |      | 0   | 3,616 | 2,092 |                          | 5,708  | 6,910 | 130 | 4,353 | 3,136 |                          | 7,618  | 8,226 | -130 | -737 | -1,044 | 0                        | -1,910 | -1,316  | 170,720 | 5% |
| Atka Mackerel               | 2008   |      | 0   | 51    | 1     |                          | 52   | 53    | 0   | 48    | 1     |                          | 50   | 51    | 0    | 3    | 0      | 0                        | 2      | 2       | 19,500  | 0% |
| ArrowTooth Flounder         | 2008   |      | 0   | 28    | 21    |                          | 49   | 78    | 1   | 23    | 68    |                          | 92   | 117   | -1   | 5    | -47    | 0                        | -43    | -39     | 75,000  | 0% |
| <i>Sum all four species</i> | 2008   |      | 0   | 3,717 | 2,161 | 0                        | 5,878  | 7,511 | 131 | 4,428 | 3,383 | 0                        | 7,943  | 8,801 | -131 | -711 | -1,222 | 0                        | -2,066 | -1,290  | 284,220 | 3% |

| SSL BiOp Area 5             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |     |       |        | Total<br>Catch Area<br>5 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |   |     |       | Total<br>Catch<br>Area 5 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |   |     |       | Total<br>Catch<br>Area 5 | TAC   | CIA/TAC |         |     |
|-----------------------------|--|------|-----|-------|--------|--------------------------|--|--------|---|-----|-------|--------------------------|--|--------|---|-----|-------|--------------------------|-------|---------|---------|-----|
|                             | Gear   | Year | 0-3 | 3-10  | 10-20  | Foraging                 | Total<br>CH  |        |   |     |       |                          |  |        |   |     |       |                          |       |         |         |     |
|                             |  |      |     |       |        |                          |  |        |   |     |       |                          |  |        |   |     |       |                          |       |         |         |     |
| Pollock                     | 2008   |      | 0   | 14    | 328    | 0                        | 342  | 404    |   | 24  | 287   | 0                        | 311  | 477    | 0 | -10 | 41    | 0                        | 31    | -73     | 19,000  | 3%  |
| Pacific Cod                 | 2008   |      | 0   | 366   | 8,569  | 0                        | 8,935  | 11,821 |   | 216 | 7,286 | 10                       | 7,512  | 9,926  | 0 | 150 | 1,283 | -10                      | 1,423 | 1,895   | 170,720 | 6%  |
| Atka Mackerel               | 2008   |      | 0   | 2     | 194    | 0                        | 196  | 18,650 |   | 2   | 158   | 0                        | 161  | 18,669 | 0 | 0   | 36    | 0                        | 35    | -19     | 19,500  | 96% |
| ArrowTooth Flounder         | 2008   |      | 0   | 838   | 1,036  | 8                        | 1,882  | 1,998  |   | 681 | 1,214 | 10                       | 1,904  | 2,021  | 0 | 157 | -178  | -2                       | -22   | -23     | 75,000  | 3%  |
| <i>Sum all four species</i> | 2008   |      | 0   | 1,220 | 10,127 | 8                        | 11,355   | 32,873 | 0 | 923 | 8,945 | 20                       | 9,888  | 31,092 | 0 | 297 | 1,182 | -12                      | 1,468 | 1,781   | 284,220 | 11% |

| SSL BiOp Area 6             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |        |          |             | Total<br>Catch Area<br>6 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |      |        |          |             | Total<br>Catch<br>Area 6 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 6 | TAC    | CIA/TAC   |     |
|-----------------------------|--|------|--------|----------|-------------|--------------------------|--|------|--------|----------|-------------|--------------------------|--|------|-------|----------|-------------|--------------------------|--------|-----------|-----|
|                             | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          |        |           |     |
| Pollock                     | 2008   | 0    | 5,708  | 67,120   | 173,693     | 246,521                  | 992,601  | 1    | 3,375  | 61,160   | 191,253     | 255,789                  | 990,811  | -1   | 2,333 | 5,960    | -17,560     | -9,268                   | 1,790  | 1,000,000 | 99% |
| Pacific Cod                 | 2008   | 24   | 2,457  | 7,732    | 22,659      | 32,872                   | 140,492  | 88   | 2,766  | 11,374   | 25,876      | 40,105                   | 142,530  | -64  | -309  | -3,642   | -3,217      | -7,233                   | -2,038 | 170,720   | 83% |
| Atka Mackerel               | 2008   | 0    | 49     | 353      | 6           | 408                      | 447  | 2    | 36     | 344      | 17          | 398                      | 416  | -2   | 13    | 9        | -11         | 10                       | 31     | 19,500    | 2%  |
| ArrowTooth Flounder         | 2008   | 1    | 4,110  | 3,284    | 3,113       | 10,508                   | 19,387   | 1    | 4,026  | 3,716    | 3,963       | 11,705                   | 19,530   | 0    | 84    | -432     | -850        | -1,197                   | -143   | 75,000    | 26% |
| <i>Sum all four species</i> | 2008   | 25   | 12,324 | 78,489   | 199,471     | 290,309                  | 1,152,927  | 91   | 10,203 | 76,594   | 221,109     | 307,997                  | 1,153,285  | -66  | 2,121 | 1,895    | -21,638     | -17,686                  | -358   | 1,265,220 | 91% |

| SSL BiOp Area 7             | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |        |          |             | Total<br>Catch Area<br>7 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 7 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 7 | TAC    | CIA/TAC |      |
|-----------------------------|--|------|--------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|------|
|                             | 0-3  | 3-10 | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |      |
| Pollock                     | 2008   | 0    | 6,020  | 3,751    |             | 9,771                    | 13,986   | 178   | 11,008 | 5,091    |             | 16,277                   | 17,090   | -178   | -4,988 | -1,340   | 0           | -6,506                   | -3,104 | 17,602  | 97%  |
| Pacific Cod                 | 2008   | 26   | 4,831  | 7,173    |             | 12,030                   | 18,661   | 2,183 | 5,444  | 5,788    |             | 13,415                   | 17,777   | -2,157 | -613   | 1,385    | 0           | -1,385                   | 884    | 19,449  | 91%  |
| Atka Mackerel               | 2008   | 0    | 174    | 459      |             | 633                      | 1,734  | 0     | 89     | 611      |             | 701                      | 1,769  | 0      | 85     | -152     | 0           | -68                      | -35    | 1,500   | 118% |
| ArrowTooth Flounder         | 2008   | 0    | 616    | 383      |             | 999                      | 2,919  | 7     | 304    | 458      |             | 769                      | 2,946  | -7     | 312    | -75      | 0           | 230                      | -27    | 8,000   | 37%  |
| <i>Sum all four species</i> | 2008   | 26   | 11,641 | 11,766   | 0           | 23,433                   | 37,300   | 2,368 | 16,846 | 11,948   | 0           | 31,162                   | 39,582   | -2,342 | -5,205 | -182     | 0           | -7,729                   | -2,282 | 46,551  | 85%  |

| SSL BiOp Area 8             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>8 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |        |          |             | Total<br>Catch<br>Area 8 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |        |          |             | Total<br>Catch<br>Area 8 | TAC    | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|--------------------------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--------|---------|
| Gear                        | Year | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                          | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2008 | 0  | 513  | 6,922 | 2,760    | 10,195      | 17,225                   | 0  | 657   | 7,521  | 3,238    | 11,417      | 18,066                   | 0  | -144   | -599   | -478     | -1,222      | -841                     | 19,181 | 94%     |
| Pacific Cod                 | 2008 | 0  | 35   | 550   | 8,006    | 8,591       | 11,481                   | 1,771  | 1,288 | 2,321  | 1,521    | 6,902       | 11,598                   | -1,771   | -1,253 | -1,771 | 6,485    | 1,689       | -117                     | 28,426 | 41%     |
| Atka Mackerel               | 2008 | 0  | 0    | 0     | 0        | 0           | 316                      | 0  | 2     | 1      | 0        | 3           | 319                      | 0  | -2     | -1     | 0        | -3          | -3                       | 1,500  | 21%     |
| ArrowTooth Flounder         | 2008 | 0  | 248  | 1,721 | 477      | 1,721       | 4,253                    | 0  | 284   | 1,008  | 320      | 1,613       | 3,927                    | 0  | -36    | 713    | 157      | 108         | 326                      | 30,000 | 13%     |
| <i>Sum all four species</i> | 2008 | 0  | 796  | 9,193 | 11,243   | 21,232      | 32,959                   | 1,772  | 2,232 | 10,851 | 5,079    | 19,934      | 33,910                   | -1,772   | -1,436 | -1,658 | 6,164    | 1,297       | -635                     | 79,107 | 43%     |

| SSL BiOp Area 9             |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |       |        |          |             | Total<br>Catch Area<br>9 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |        |        |          |             | Total<br>Catch<br>Area 9 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |        |       |          |             | Total<br>Catch<br>Area 9 | TAC    | CIA/TAC |
|-----------------------------|------|--|-------|--------|----------|-------------|--------------------------|--|--------|--------|----------|-------------|--------------------------|--|--------|-------|----------|-------------|--------------------------|--------|---------|
| Gear                        | Year | 0-3  | 3-10  | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20  | Foraging | Total<br>CH |                          | 0-3  | 3-10   | 10-20 | Foraging | Total<br>CH |                          |        |         |
| Pollock                     | 2008 | 162  | 1205  | 11,710 | 7        | 11,710      | 16,314                   | 33   | 1,790  | 10,087 | 49       | 11,958      | 15,367                   | 129  | -585   | 1,623 | -42      | -248        | 947                      | 13,640 | 113%    |
| Pacific Cod                 | 2008 | 24   | 2,971 | 8721   | 13       | 3,008       | 24,226                   | 611  | 6,504  | 7,264  | 231      | 14,610      | 25,023                   | 587  | -3,533 | 1,457 | -218     | -11,602     | -797                     | 28,426 | 88%     |
| Atka Mackerel               | 2008 | 0  | 0     | 0      | 0        | 0           | 4                        | 0  | 0      | 0      |          | 1           | 4                        | 0  | 0      | 0     | 0        | -1          | 0                        | 1,500  | 0%      |
| ArrowTooth Flounder         | 2008 | 0  | 1,560 | 4,639  | 454      | 6,653       | 22,043                   | 21   | 2,564  | 4,885  | 221      | 7,691       | 22,067                   | -21  | -1,004 | -246  | 233      | -1,038      | -24                      | 30,000 | 74%     |
| <i>Sum all four species</i> | 2008 | 186  | 5,736 | 25,070 | 474      | 31,466      | 62,583                   | 665  | 10,859 | 22,236 | 500      | 34,260      | 62,461                   | -479   | -5,123 | 2,834 | -26      | -2,794      | 126                      | 73,566 | 85%     |

| SSL BiOp Area 10            |      | AMOUNT (mt) of Catch in CH areas<br>Extrapolated observer database (EOD) |      |       |          |             | Total<br>Catch Area<br>10 | AMOUNT (mt) of Catch in CH areas<br>Catch In Area Database (CIA) |       |       |          |             | Total<br>Catch<br>Area 10 | AMOUNT (mt) of Catch in CH areas<br>Difference between EOD and CIA |      |       |          |             | Total<br>Catch<br>Area 10 | TAC   | CIA/TAC |
|-----------------------------|------|--|------|-------|----------|-------------|---------------------------|--|-------|-------|----------|-------------|---------------------------|--|------|-------|----------|-------------|---------------------------|-------|---------|
| Gear                        | Year | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10  | 10-20 | Foraging | Total<br>CH |                           | 0-3  | 3-10 | 10-20 | Foraging | Total<br>CH |                           |       |         |
| Pollock                     | 2008 | 0  | 0    | 701   |          | 701         | 1,166                     | 0  | 2     | 27    |          | 29          | 1,165                     | 0  | -2   | 674   | 0        | 672         | 1                         | 1,517 | 77%     |
| Pacific Cod                 | 2008 | 248  | 574  | 1038  |          | 1,860       | 2,109                     | 176  | 1,031 | 299   |          | 1,507       | 1,617                     | 72   | -457 | 739   | 0        | 353         | 492                       | 2,394 | 68%     |
| Atka Mackerel               | 2008 | 0  | 0    | 0     |          | 0           | 0                         |  | 0     |       |          | 0           | 0                         | 0  | 0    | 0     | 0        | 0           | 0                         | 1,500 | 0%      |
| ArrowTooth Flounder         | 2008 | 0  | 0    | 22    |          | 22          | 130                       | 0  | 14    | 7     |          | 22          | 67                        | 0  | -14  | 15    | 0        | 0           | 63                        | 2,500 | 3%      |
| <i>Sum all four species</i> | 2008 | 248  | 574  | 1,761 | 0        | 2,583       | 3,275                     | 176  | 1,047 | 334   | 0        | 1,557       | 2,848                     | 72   | -473 | 1,427 | 0        | 1,026       | 557                       | 7,911 | 36%     |

**APPENDIX III**  
**FISHERIES CATCH DATA ANALYSIS FOR THE BERING SEA,**  
**ALEUTIAN ISLANDS, AND GULF OF ALASKA**

Figure III-1. Areas used to designate “Expanded Observer Data” points as catch taken in the Bering Sea (BS), Gulf of Alaska (GOA), or the Aleutian Islands (AI) regions.

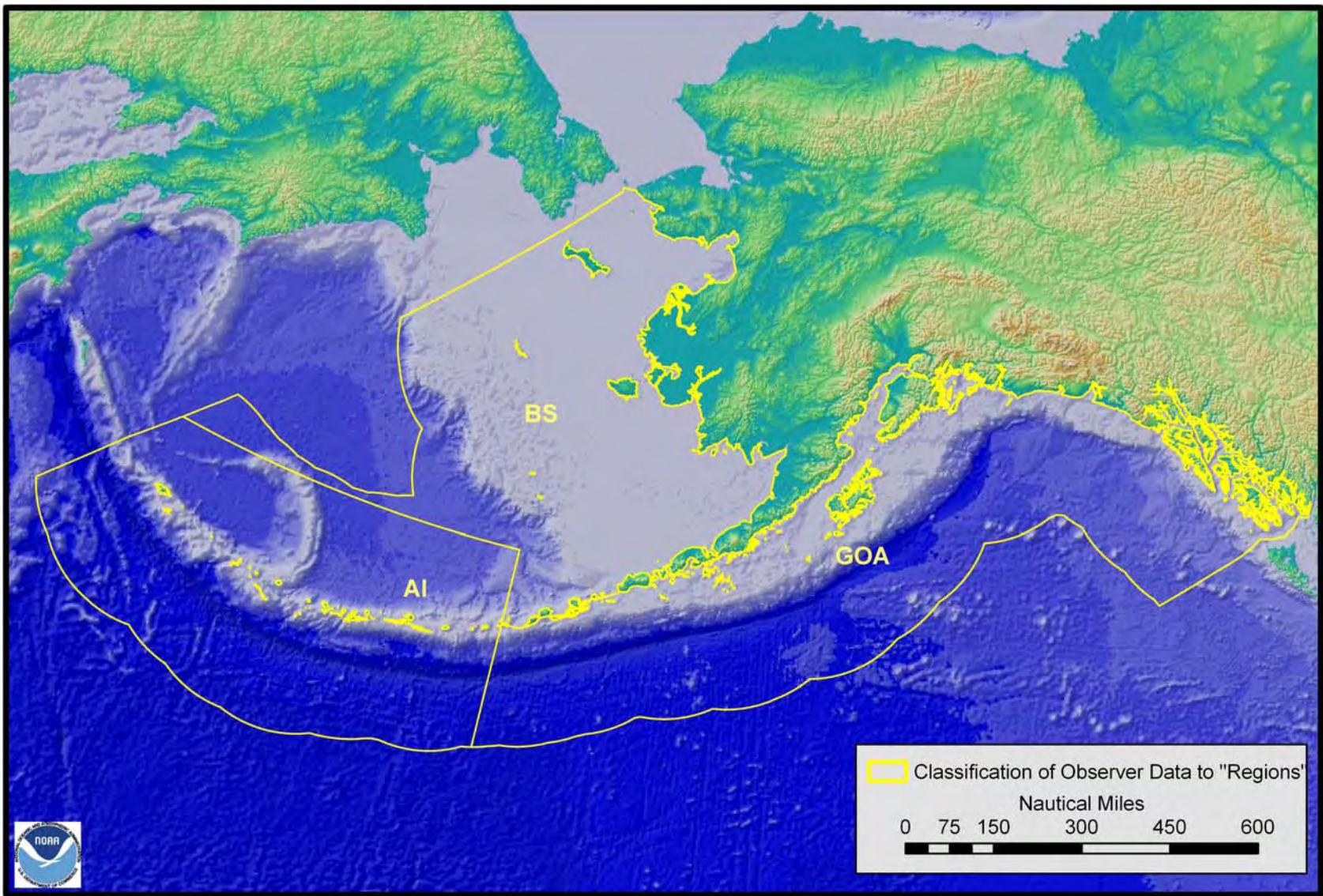


Figure III-2. Bering Sea - catch in critical habitat and total catch of Pollock, Pacific cod and Atka mackerel 1991-2008.

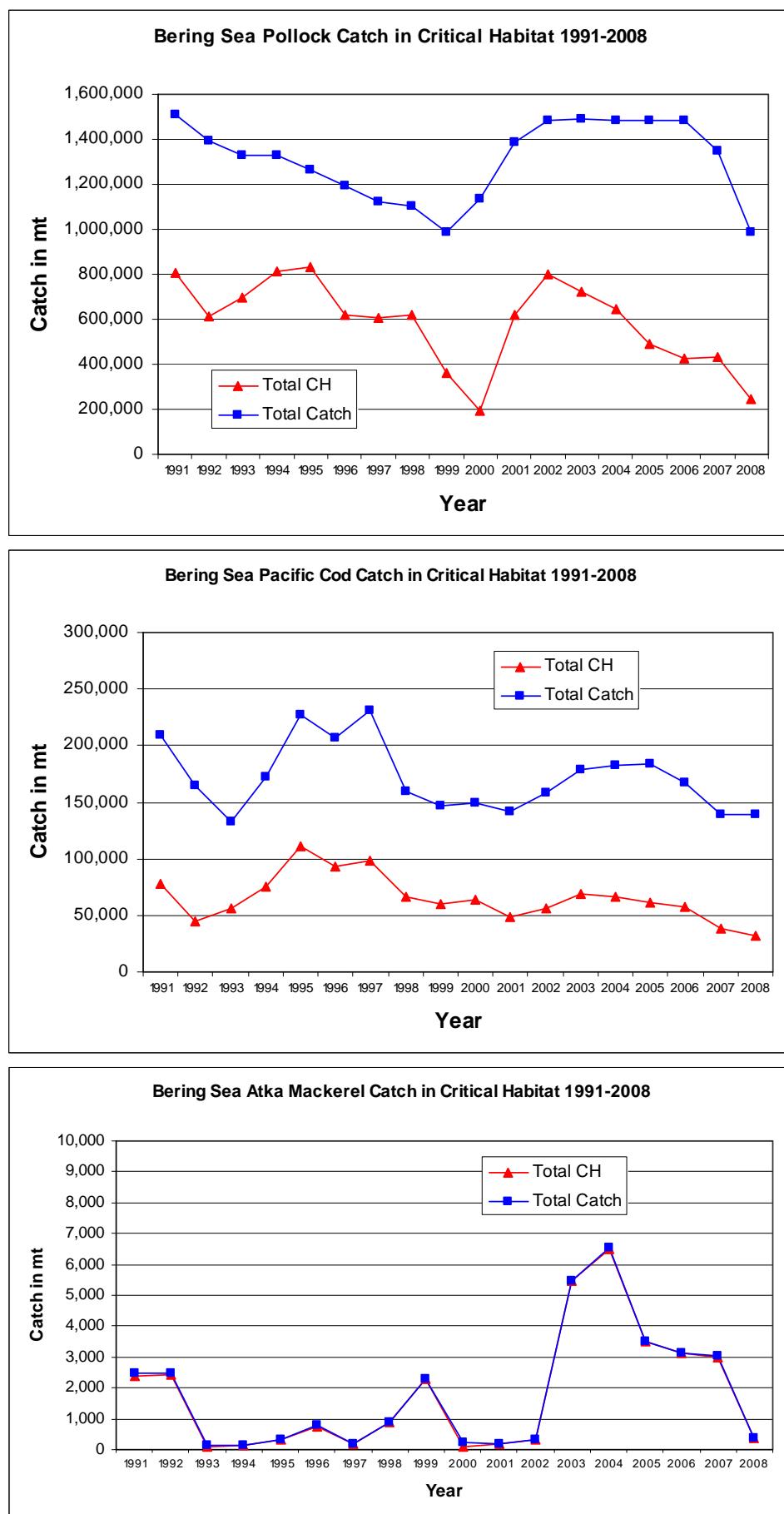


Figure III-3. Gulf of Alaska - catch in critical habitat and total catch of Pollock, Pacific cod, and Atka mackerel, 1991-2008.

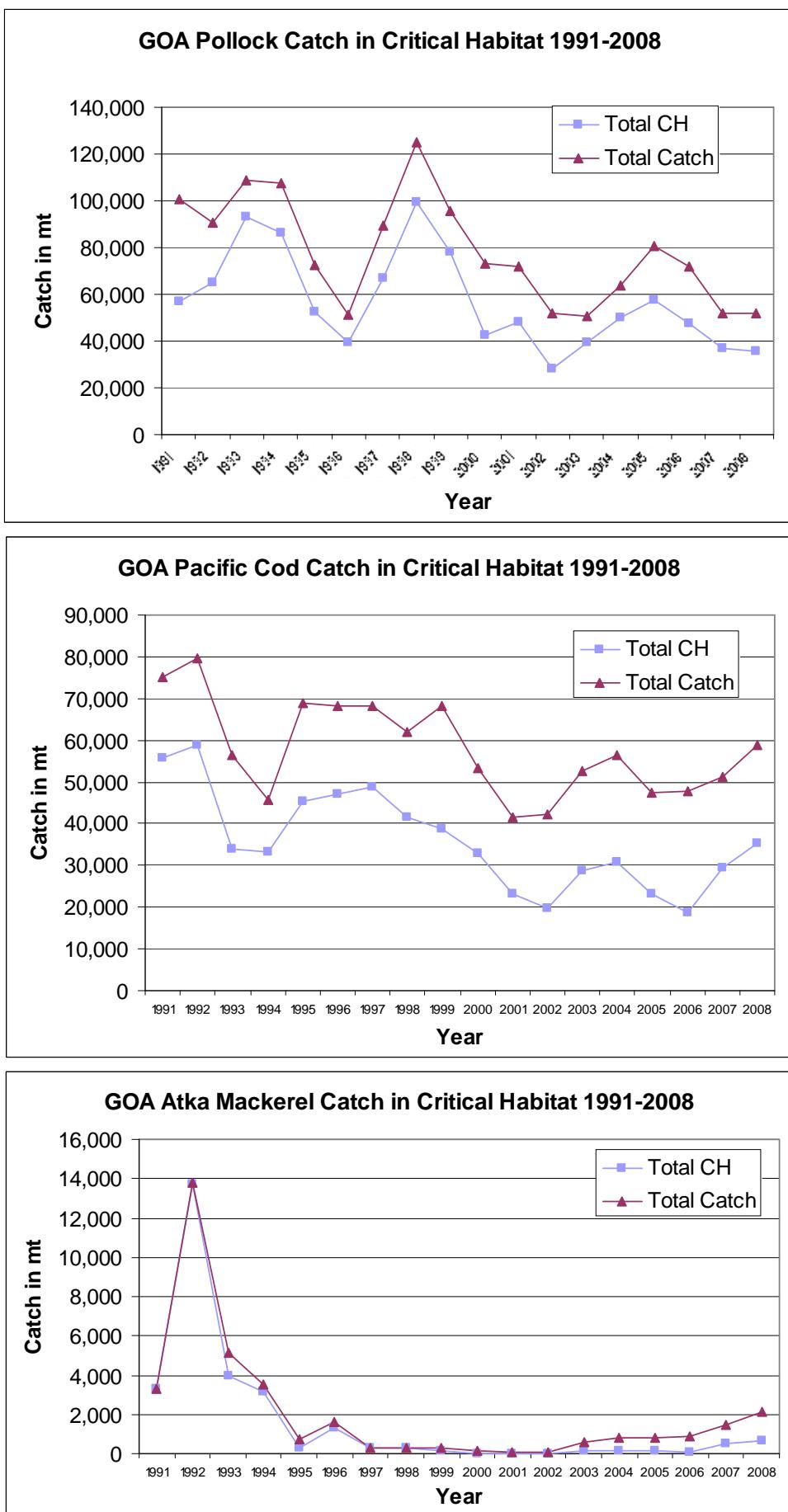


Figure III-4. Aleutian Islands - catch in critical habitat and total catch of Pollock, Pacific cod, and Atka mackerel, 1991-2008.

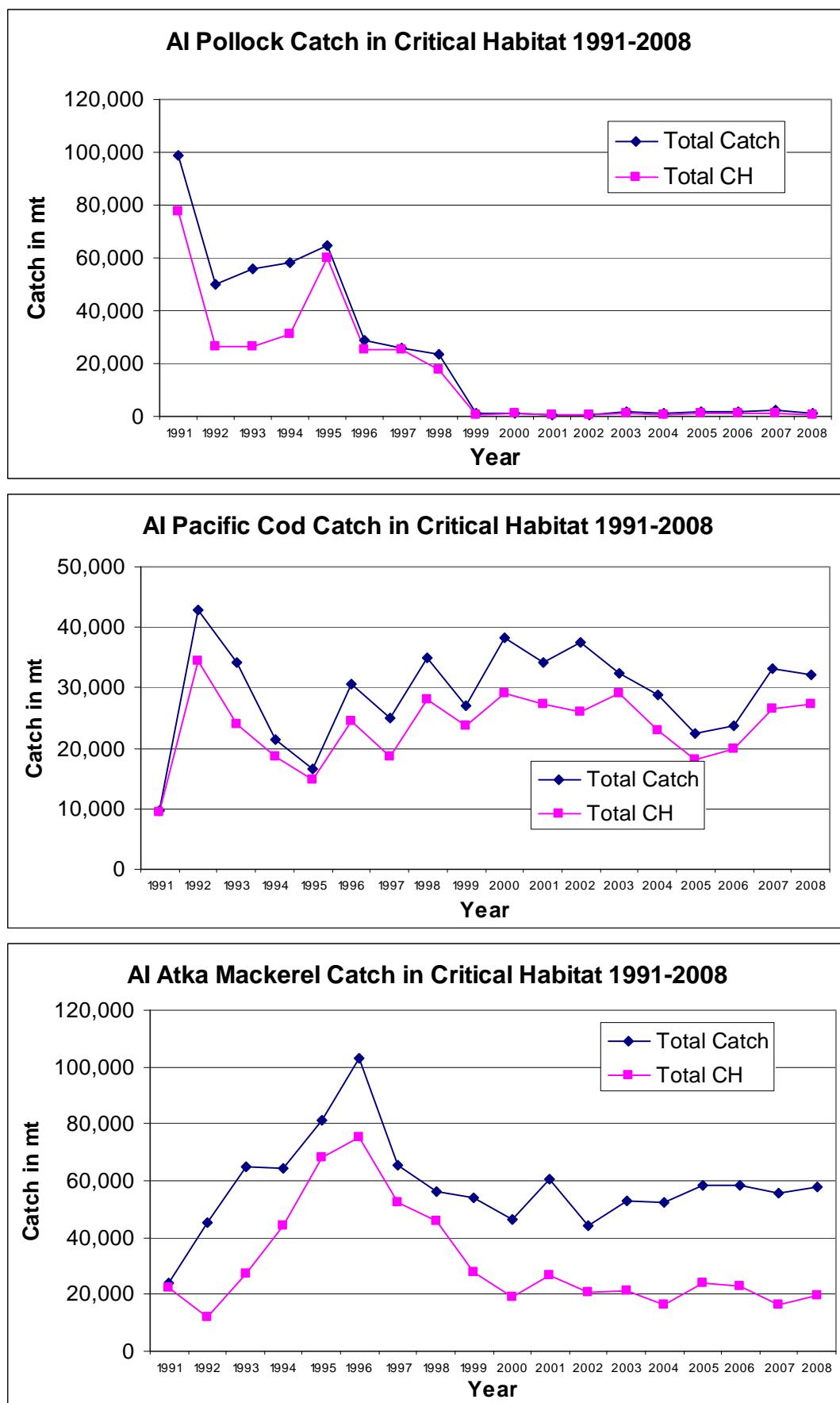


Figure III-5. Catch in critical habitat and total catch of Arrowtooth flounder in the Bering Sea, Gulf of Alaska, and the Aleutian Islands, 1991-2008.

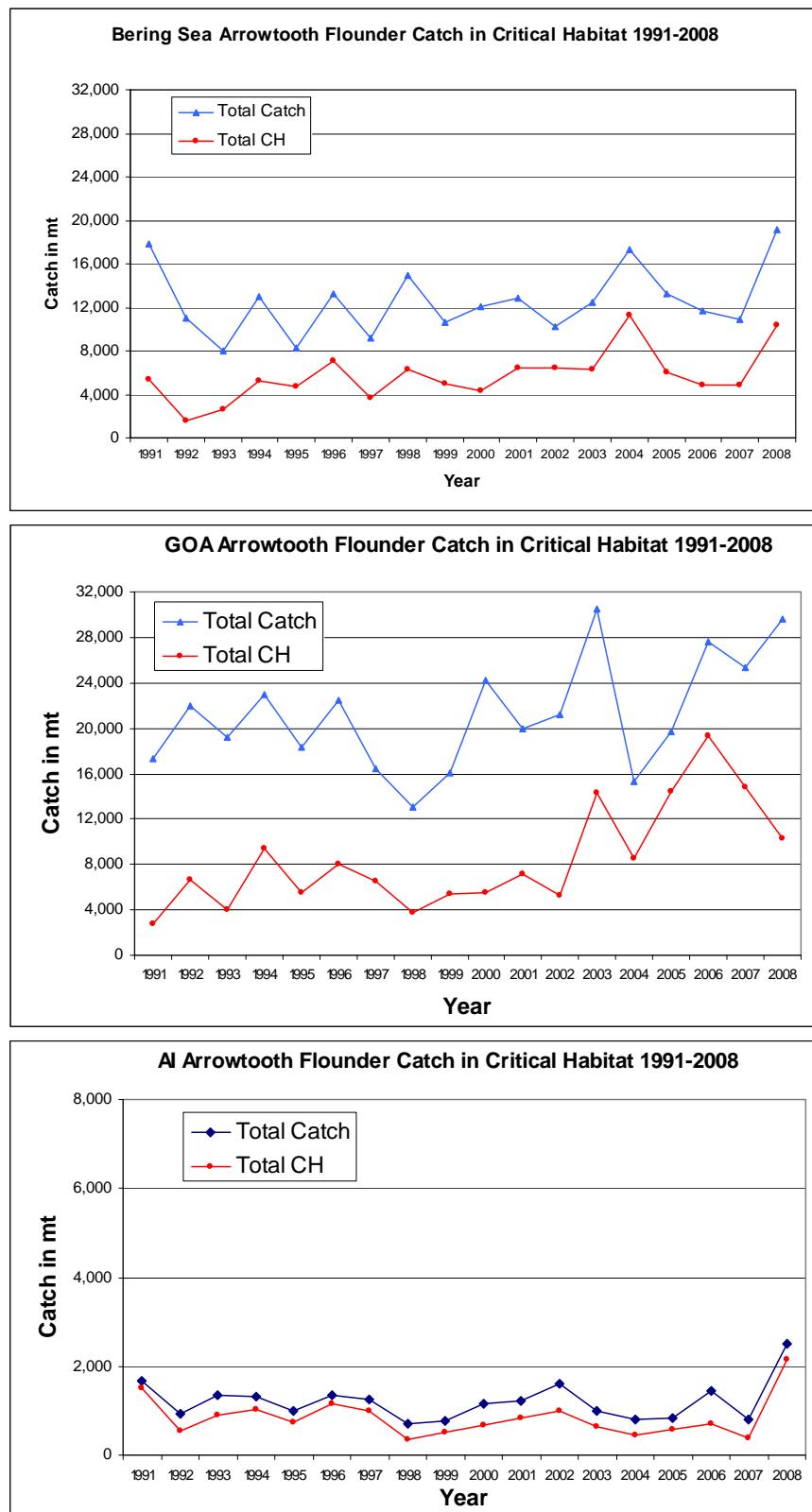


Figure III-6. Proportion of catch within 0-3 nm, 3-10nm, 10-20nm, and foraging areas of critical habitat in the Bering Sea, Gulf of Alaska, and Aleutian Islands by gear types from 1998-2008.

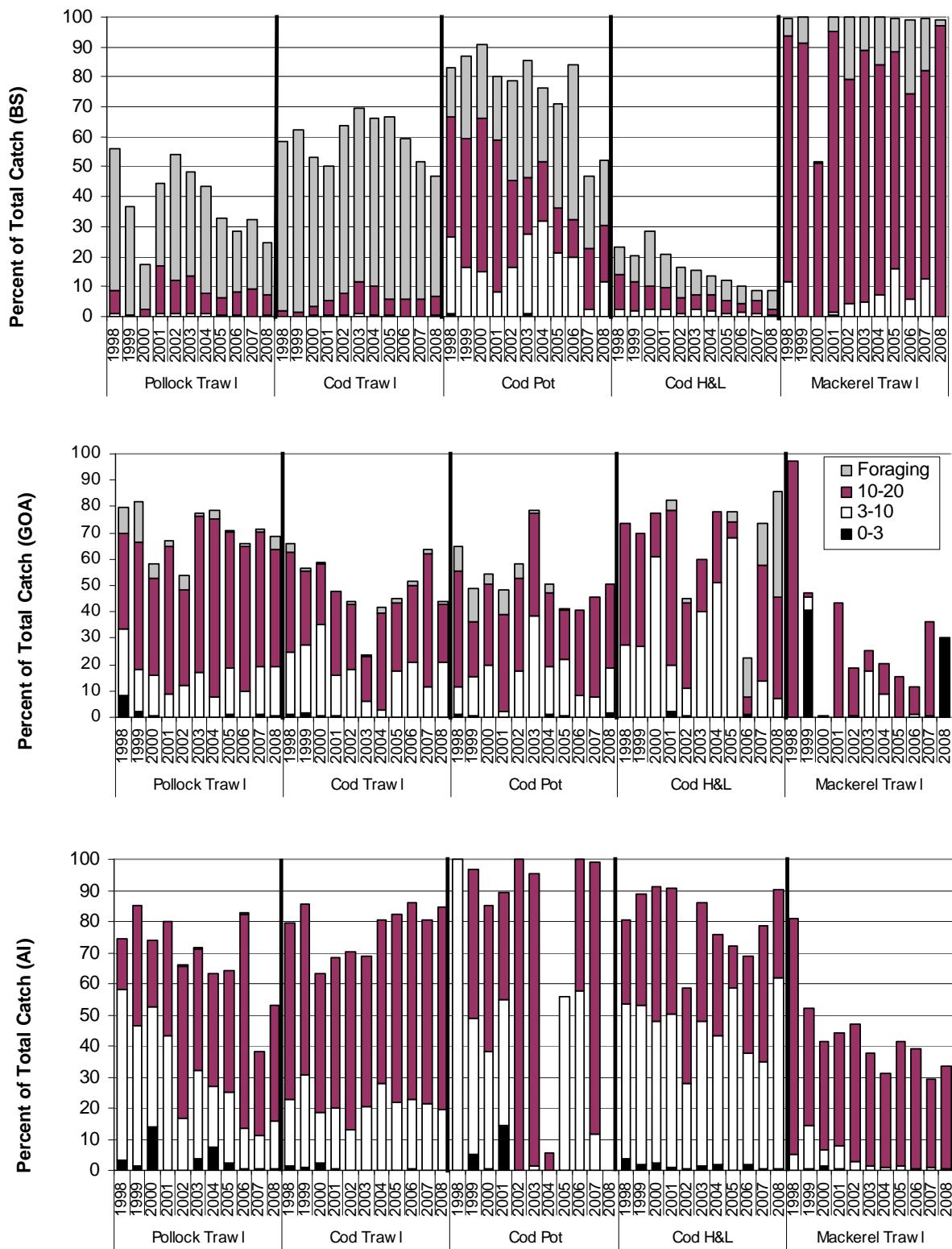


Figure III-6. Proportion of catch within 0-3 nm, 3-10nm, 10-20nm, and foraging areas of critical habitat in the Bering Sea, Gulf of Alaska, and Aleutian Islands by gear types from 1998-2008.

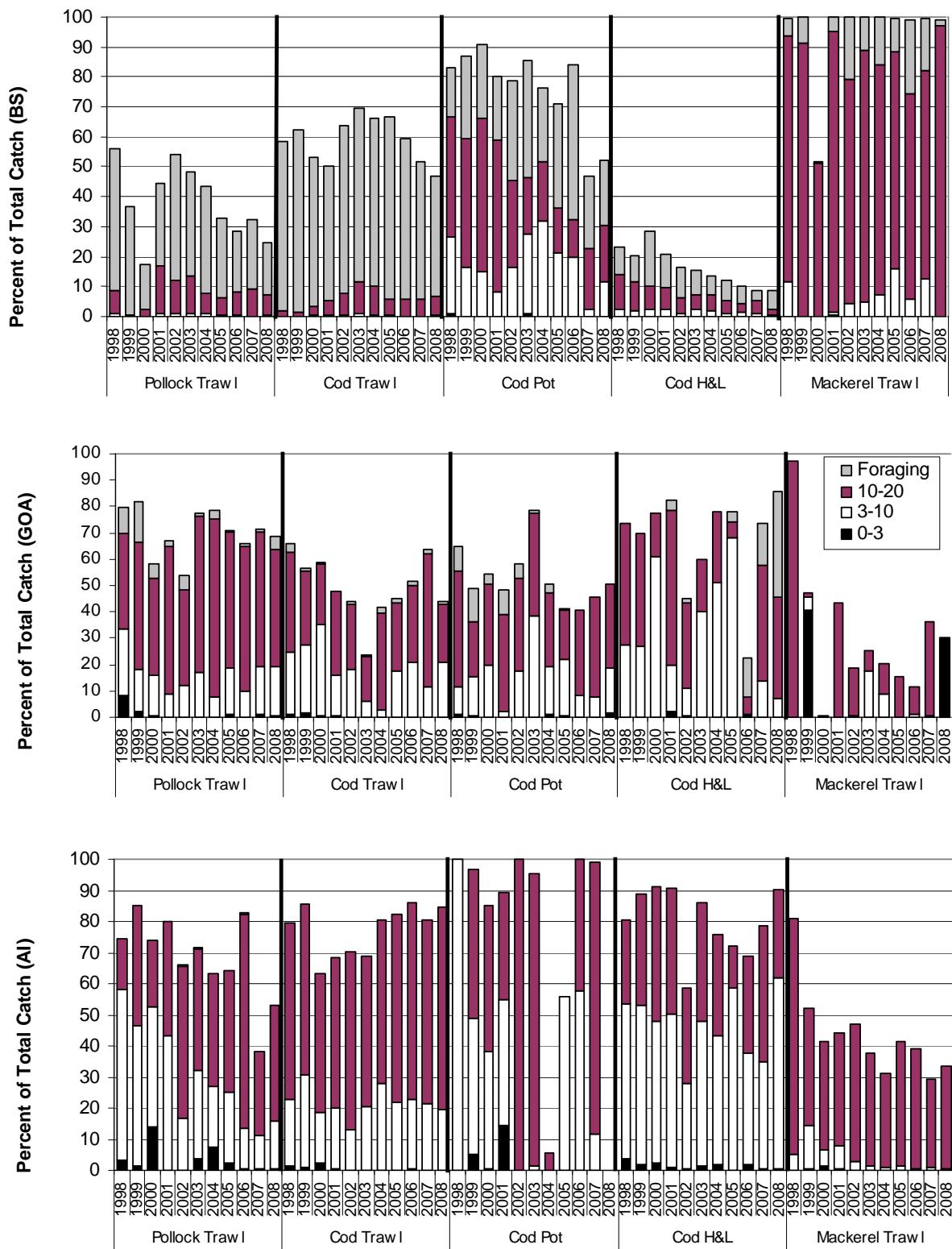


Figure III-7. Proportion of catch taken within Steller sea lion critical habitat in the Bering Sea, Gulf of Alaska, and Aleutian Islands by gear types from 1998-2008.

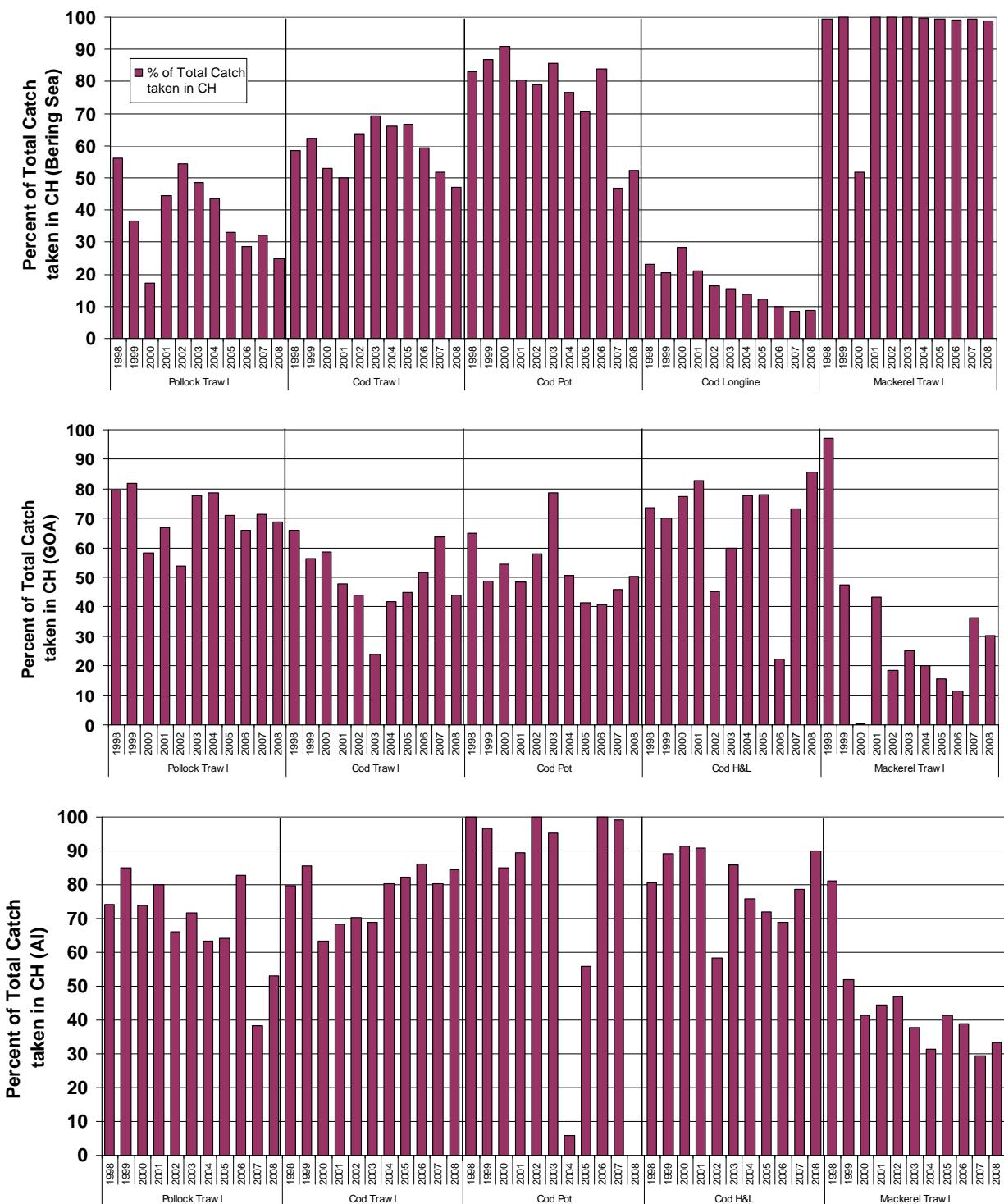


Figure III-8. Proportion of Arrowtooth flounder catch within 0-3 nm, 3-10nm, 10-20nm, and foraging areas of critical habitat in the Bering Sea, Gulf of Alaska, and Aleutian Islands by gear types from 1998-2008.

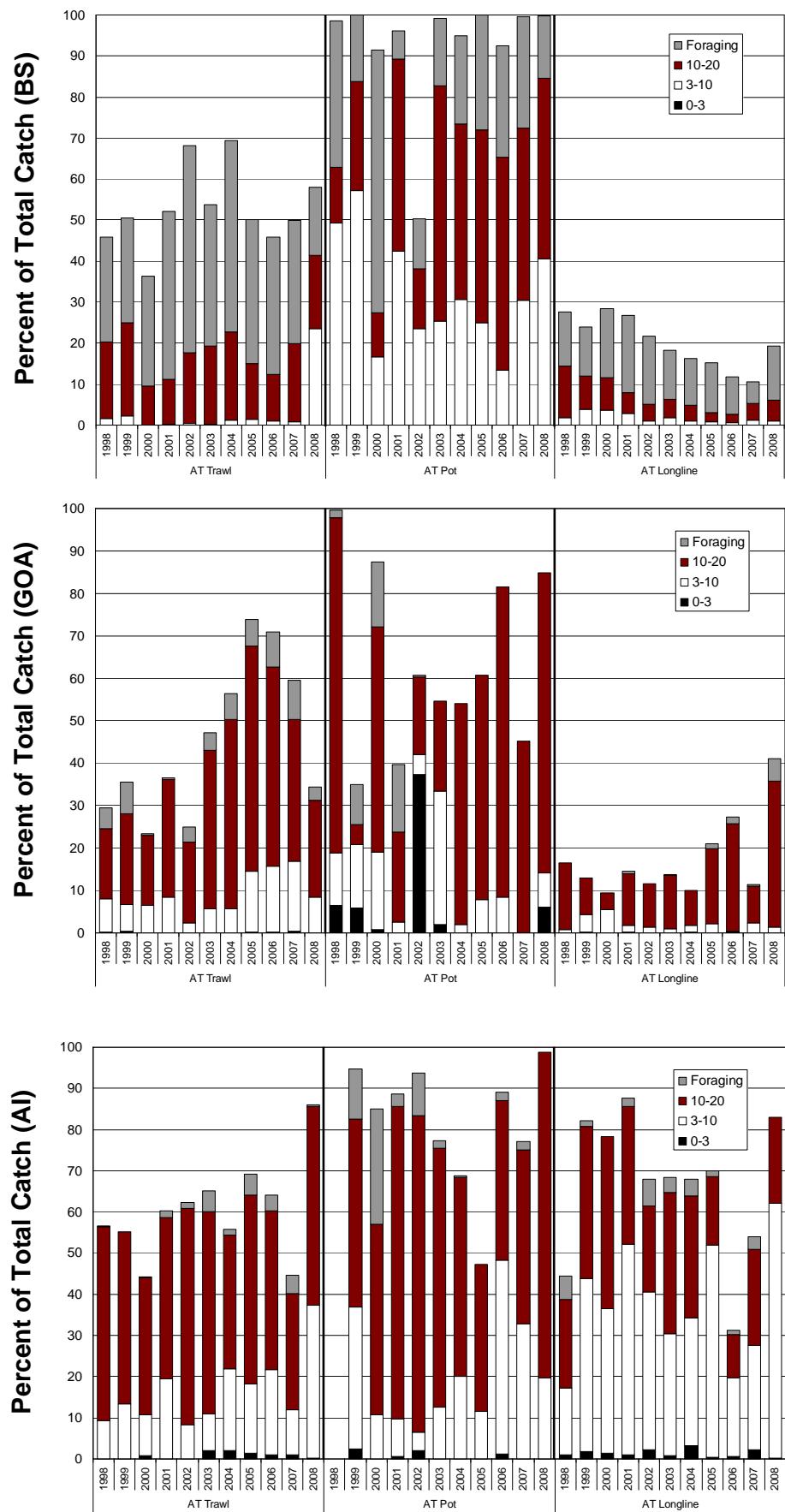


Figure III-9. Percent of the annual catch of Pacific cod harvested in the Bering Sea trawl, pot, longline fisheries in each quarter of the year from 1998-2008.

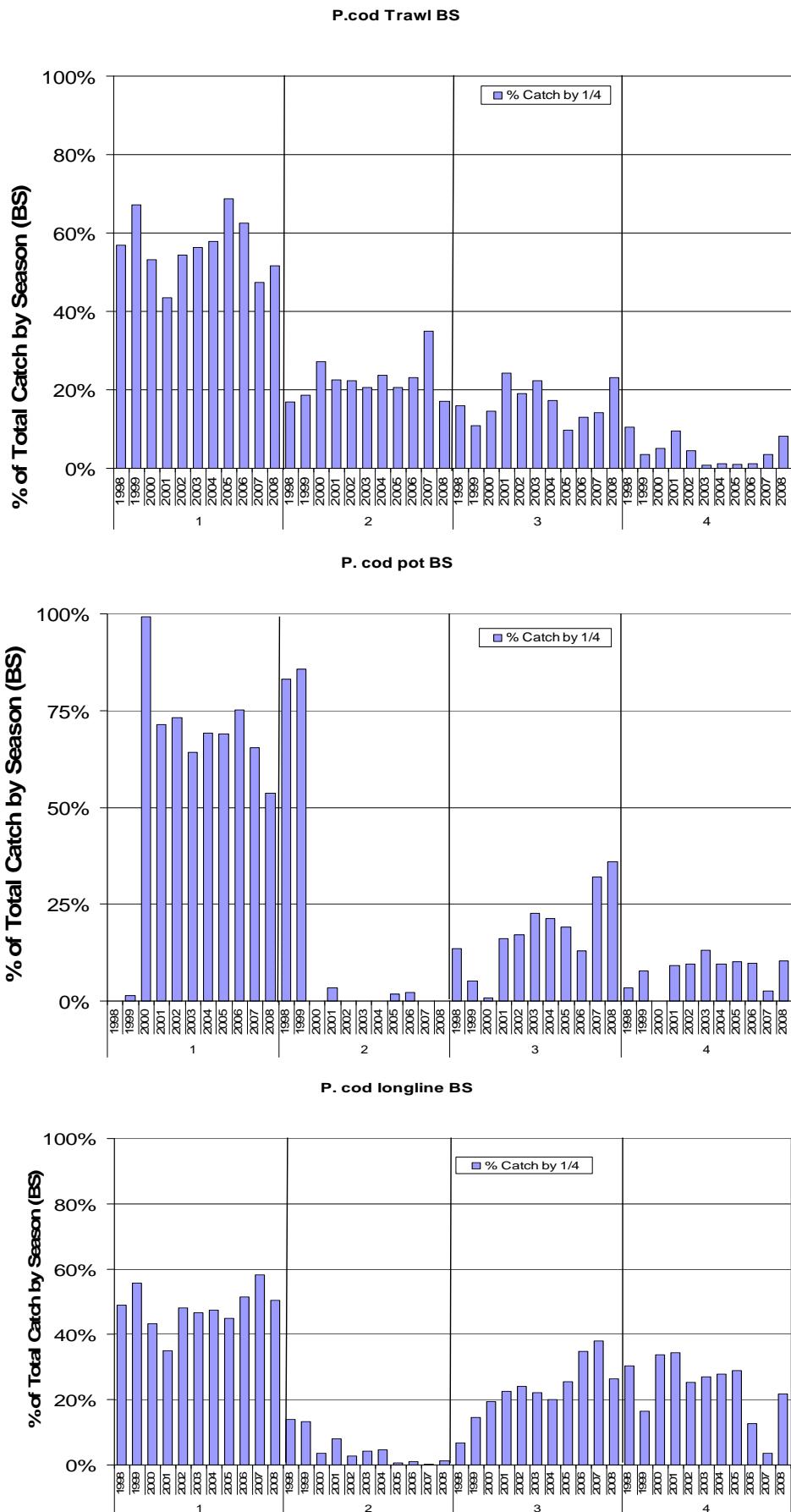


Figure III-10. Percent of the annual catch of Pacific cod harvested in trawl, pot, and longline fisheries from the Gulf of Alaska in each quarter of the year from 1998-2008.

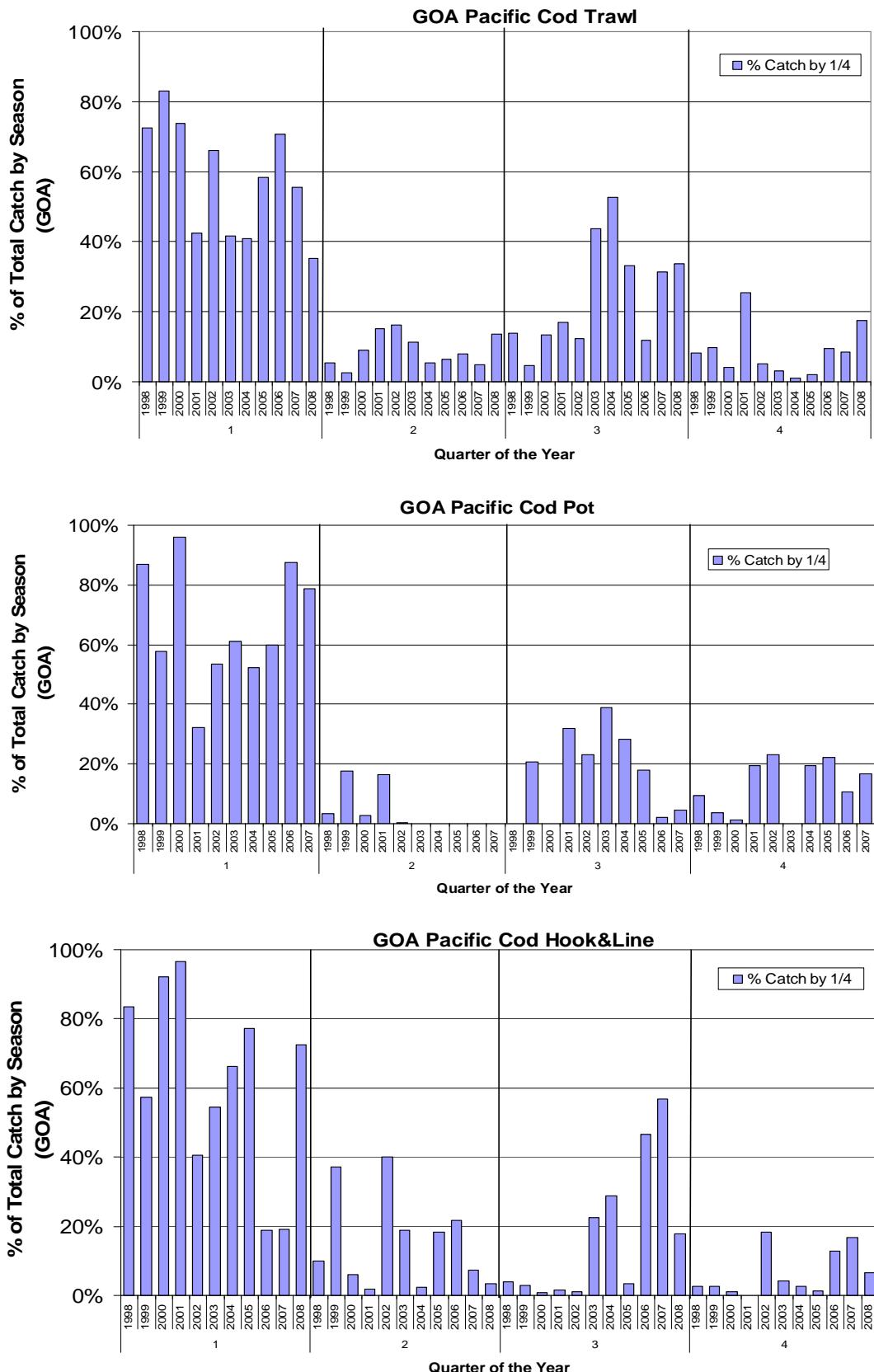


Figure III-11. Percent of the annual catch of Pacific cod harvested from critical habitat zones in each quarter by the trawl, pot, and longline fisheries from the Aleutian Islands, 1998-2008.

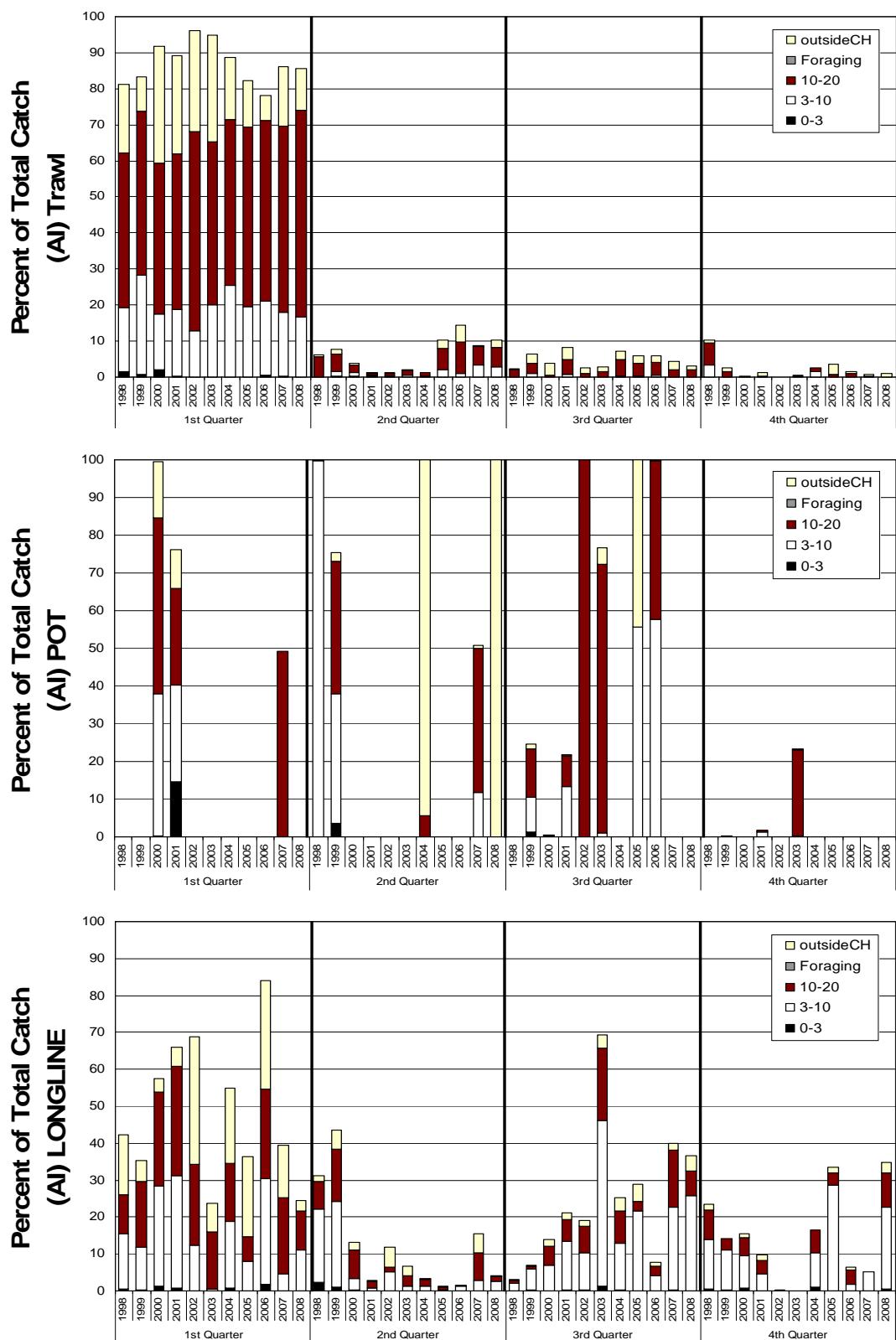


Figure III-12. Seasonal catch of Pacific cod by all gear types in the Gulf of Alaska, Bering Sea and the Aleutian Islands, 1998-2008.

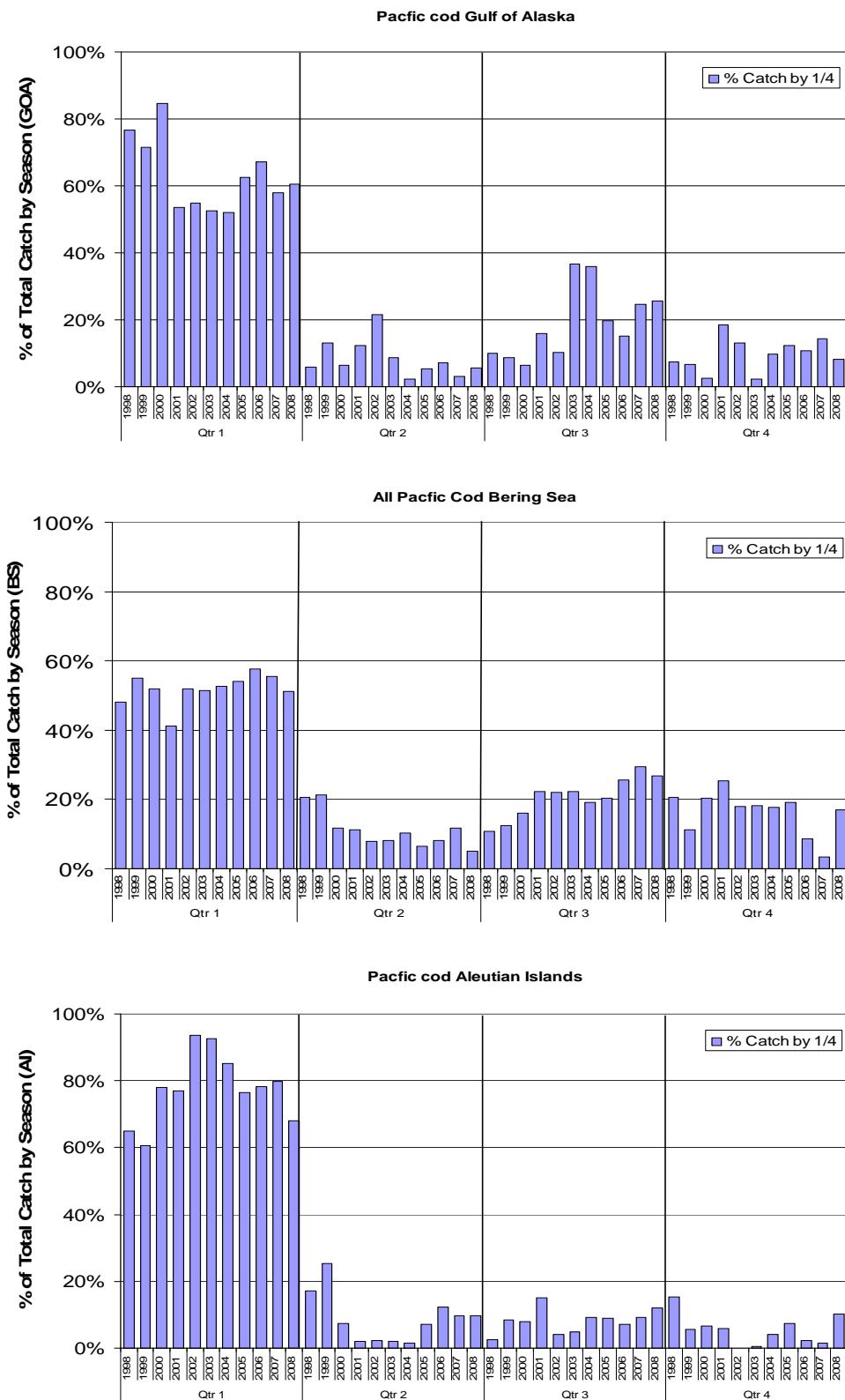


Figure III-13. Percent of the annual catch of pollock harvested in each quarter of the year from 1998-2008.

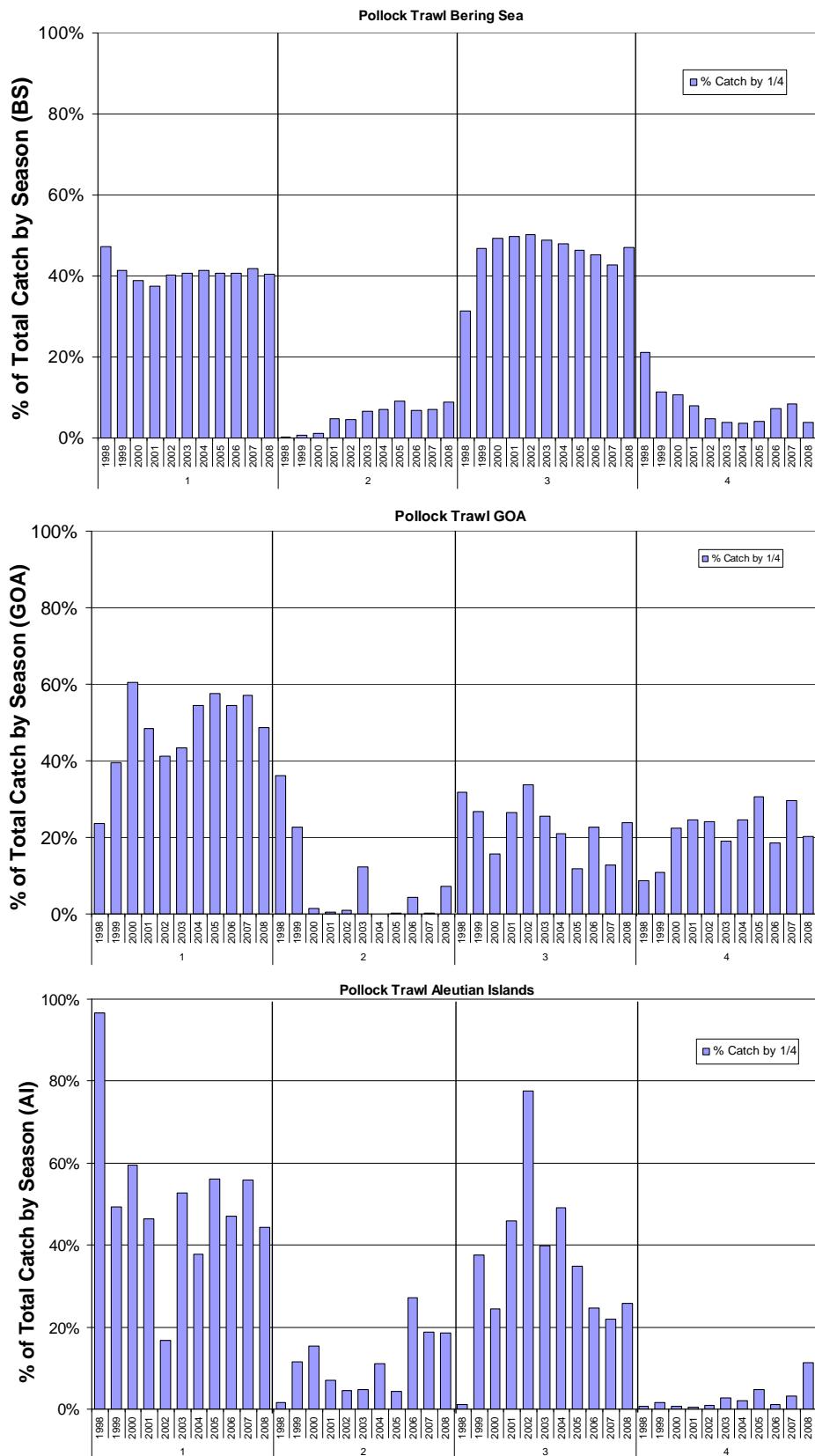


Figure III-14. Percent of the annual catch of Atka mackerel harvested in the Bering Sea, Aleutian Islands, and Gulf of Alaska by trawl in each quarter of the year from 1998-2008.

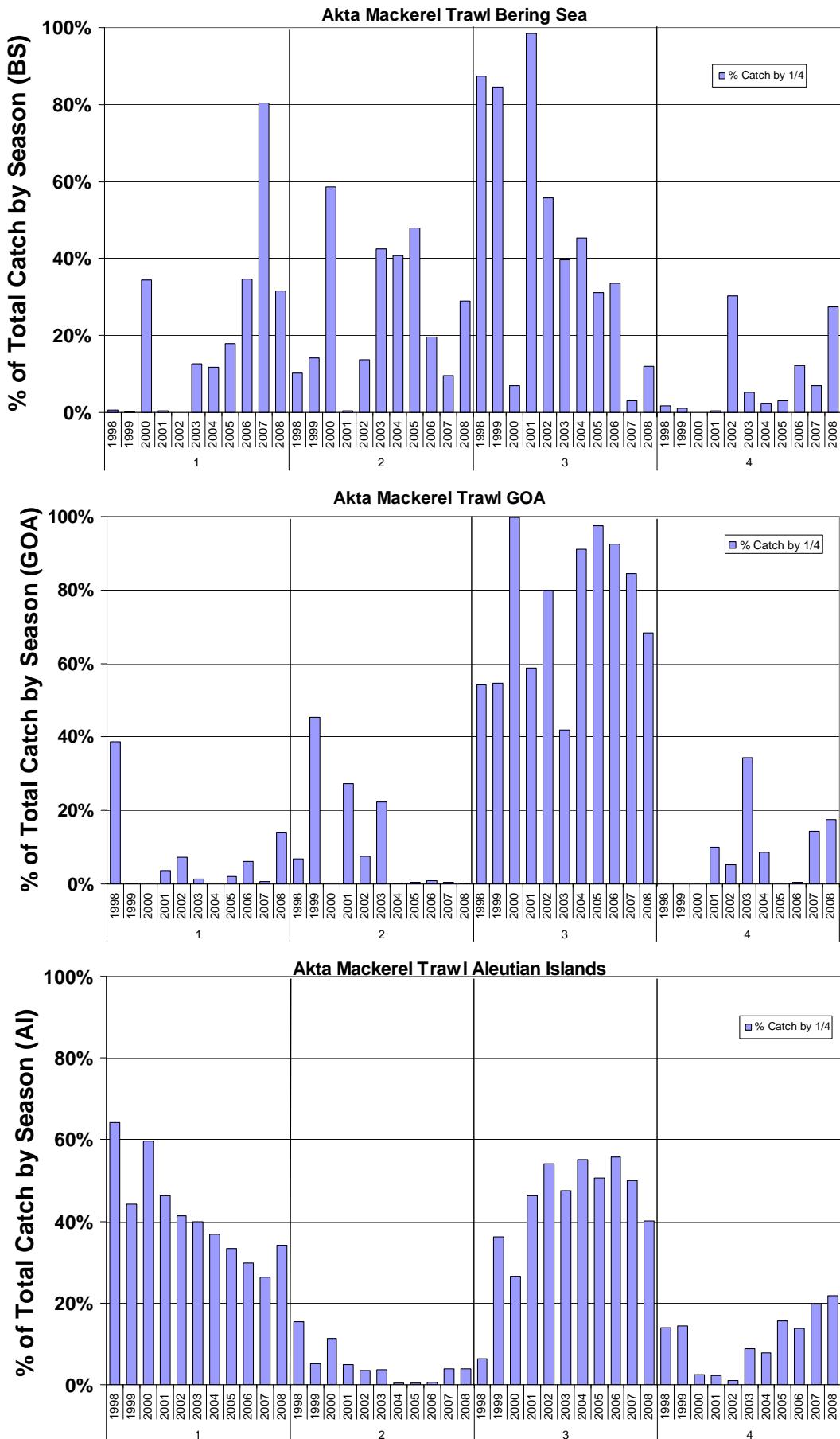


Figure III-15. Percent of the annual catch of arrowtooth flounder harvested in the Bering Sea, Gulf of Alaska, and the Aleutian Islands by trawl in each quarter of the year from 1998-2008.

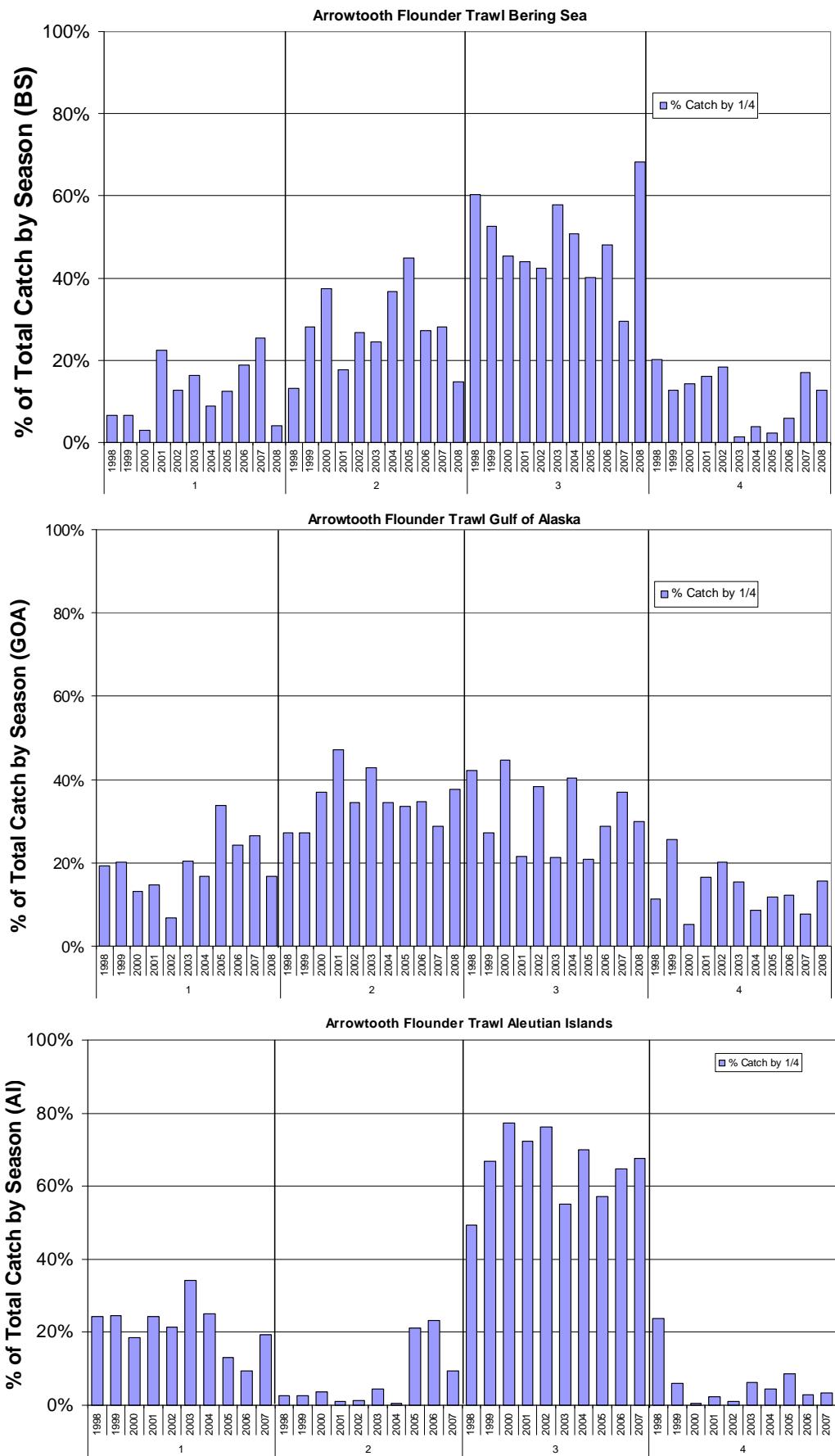


Figure III-16. Seasonal dispersion in the pollock catch in the Eastern Bering Sea, within (black) and outside (gray) of critical habitat. Y axis is per cent of total annual catch (source L. Fritz, NMML). Lower: Duration of directed fishery based on observer data (J. Ianelli, AFSC).

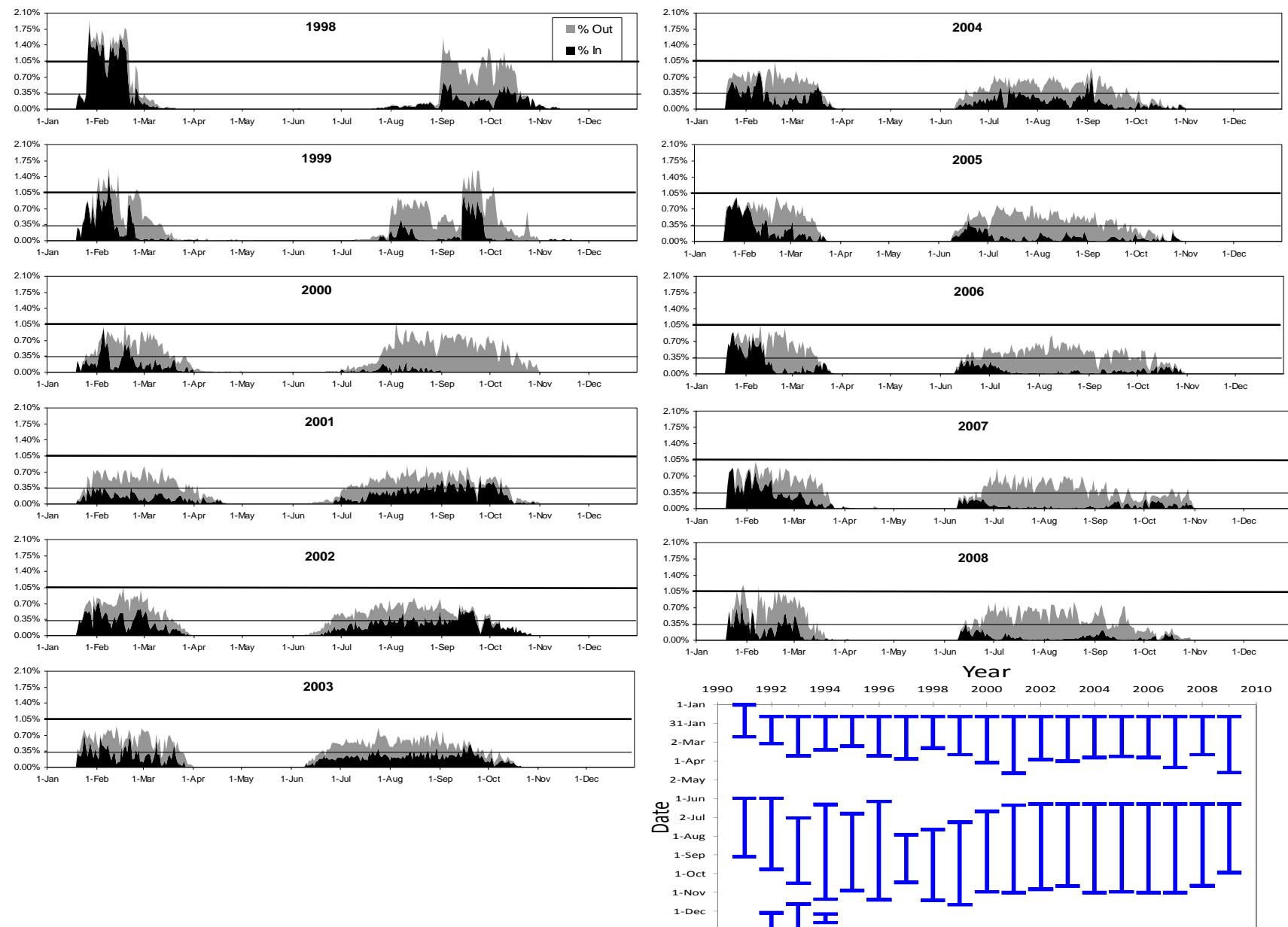
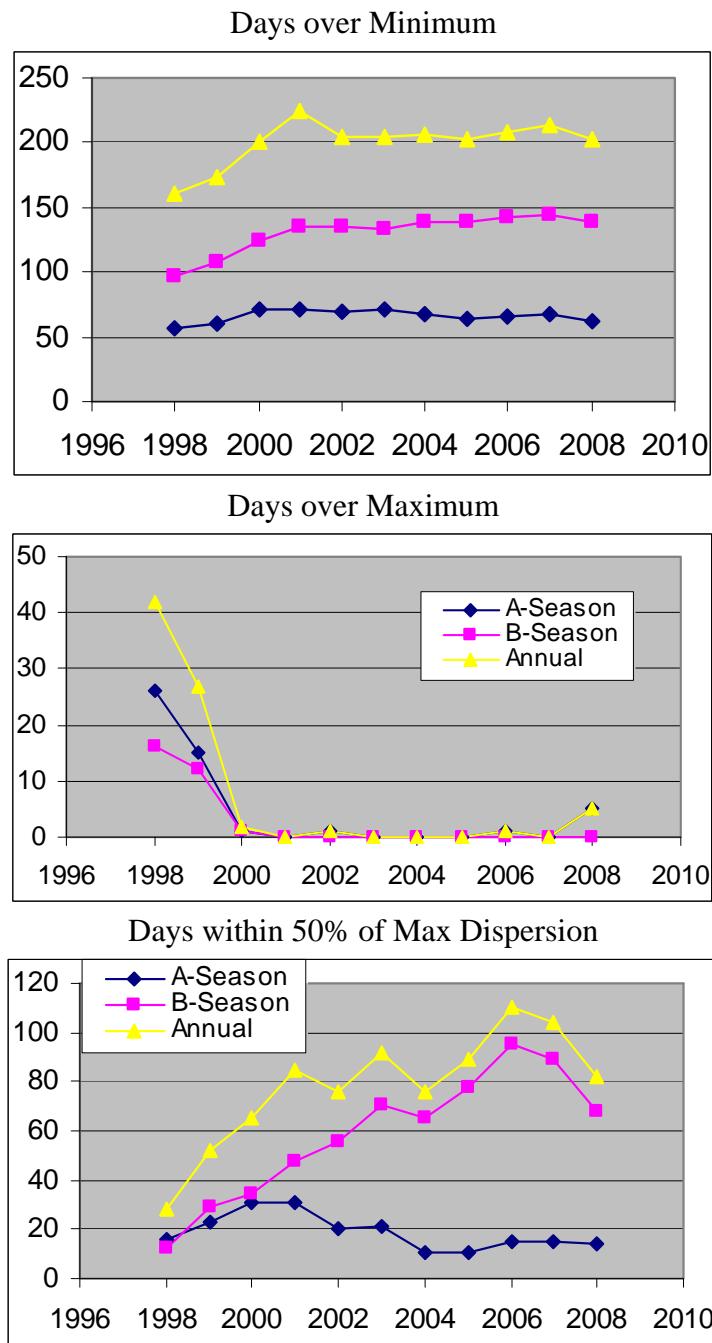


Figure III-17. Daily catch rates of pollock in the Eastern Bering Sea. Table (bottom) provides average catch rates in mt for the entire region in the years 1998-2008 (source: L. Fritz, NMML).



| Season | Catch/day                   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   |
|--------|-----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A      | Average in EBS              | 7,222  | 5,685  | 6,130  | 7,288  | 8,188  | 8,320  | 8,377  | 8,259  | 8,298  | 7,781  | 5,436  |
|        | Max in EBS                  | 21,527 | 15,940 | 12,338 | 11,419 | 15,695 | 13,199 | 15,006 | 14,206 | 15,769 | 13,498 | 11,518 |
|        | Average in Critical Habitat | 5,686  | 2,861  | 2,408  | 2,356  | 4,286  | 3,989  | 4,137  | 4,111  | 3,724  | 4,242  | 2,103  |
| B      | Average in EBS              | 3,728  | 3,728  | 4,450  | 5,348  | 5,686  | 5,701  | 5,588  | 5,688  | 5,712  | 5,069  | 3,760  |
|        | Max in EBS                  | 17,122 | 15,317 | 12,701 | 11,741 | 12,179 | 12,799 | 13,017 | 11,529 | 12,314 | 11,688 | 8,132  |
|        | Average in Critical Habitat | 1,323  | 987    | 273    | 2,818  | 3,193  | 2,790  | 2,226  | 1,234  | 1,005  | 811    | 575    |

Figure III-18. Age 3+ biomass of walleye pollock in the eastern Bering Sea (upper) and Gulf of Alaska (lower) regions, 1977-2008 (blue lines and right y-axes in both panels: Dorn et al. 2007; Ianelli et al. 2007). Total catch of pollock within each region (black lines and left y-axes) and pollock catch within Steller sea lion critical habitat in each region (red lines and left y-axes) are also plotted; upper plot includes catches of pollock in Aleutian Islands region.

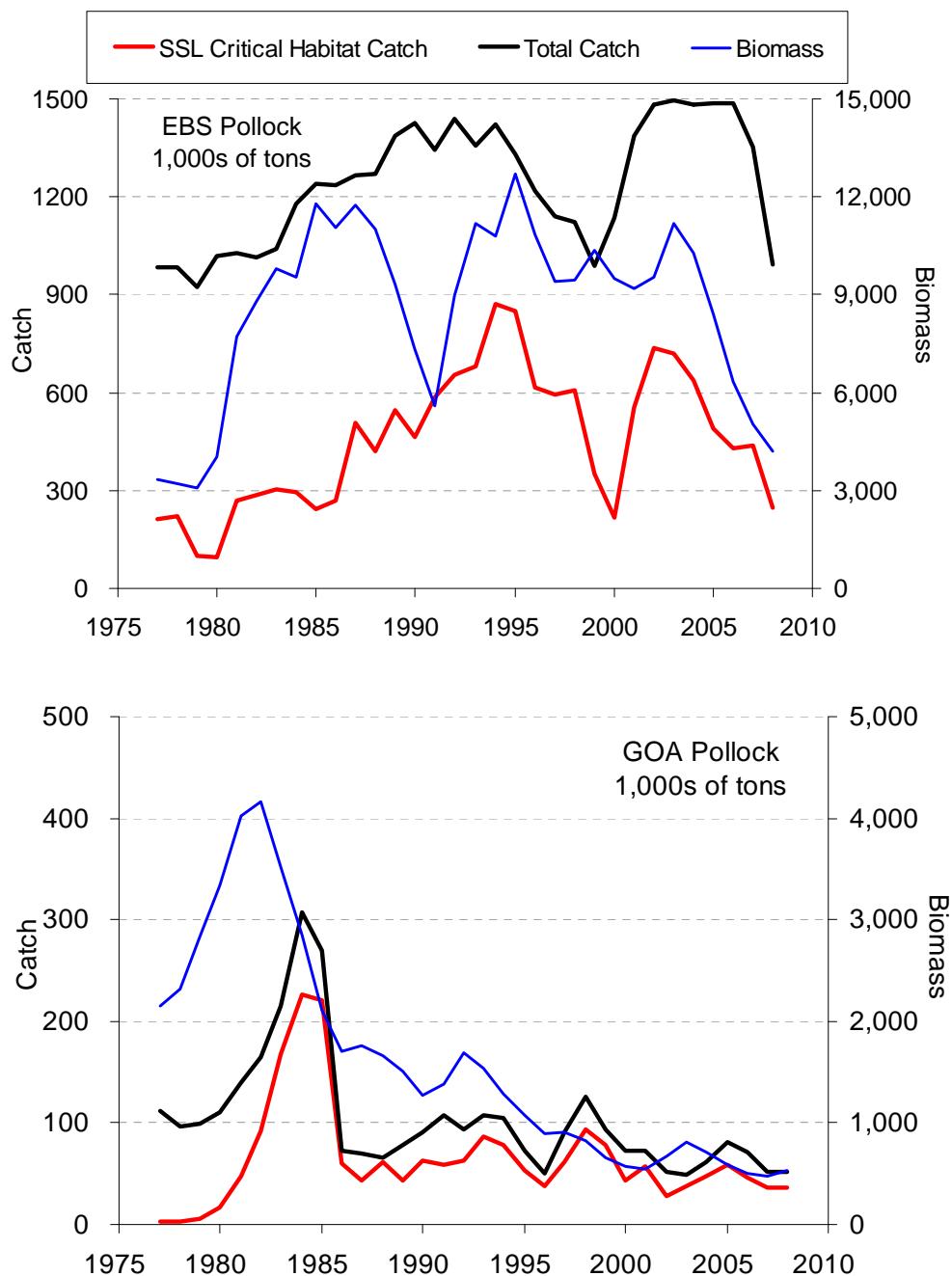


Table III-1. Summary of catch (mt) in critical habitat by zones from 1991-2008 in the Bering Sea area.

| BS Pollock Catch by Zones 1991-2008 |     |        |         |         |          |         |         | Total CH | Total Catch | CH % |
|-------------------------------------|-----|--------|---------|---------|----------|---------|---------|----------|-------------|------|
| Year                                | 0-3 | 3-10   | 10-20   | 0-20    | Foraging | Rookery | Haulout |          |             |      |
| 1991                                | 391 | 48,030 | 302,858 | 351,279 | 456,367  | 239,645 | 264,491 | 807,647  | 1,511,661   | 53.4 |
| 1992                                | 0   | 8,580  | 131,714 | 140,294 | 472,983  | 58,677  | 103,379 | 613,277  | 1,392,718   | 44.0 |
| 1993                                | 362 | 10,137 | 103,974 | 114,473 | 581,942  | 74,099  | 54,867  | 696,415  | 1,328,523   | 52.4 |
| 1994                                | 414 | 11,510 | 113,331 | 125,255 | 686,688  | 98,024  | 65,645  | 811,943  | 1,330,432   | 61.0 |
| 1995                                | 289 | 11,610 | 131,566 | 143,464 | 691,848  | 142,429 | 54,418  | 835,313  | 1,264,578   | 66.1 |
| 1996                                | 0   | 8,939  | 100,878 | 109,817 | 512,401  | 100,957 | 50,606  | 622,218  | 1,193,261   | 52.1 |
| 1997                                | 118 | 7,229  | 66,247  | 73,594  | 533,670  | 61,764  | 44,256  | 607,264  | 1,124,589   | 54.0 |
| 1998                                | 107 | 9,147  | 88,807  | 98,062  | 520,275  | 66,933  | 65,007  | 618,337  | 1,101,283   | 56.1 |
| 1999                                | 0   | 476    | 5,266   | 5,742   | 356,077  | 1,915   | 4,974   | 361,819  | 989,931     | 36.5 |
| 2000                                | 8   | 1,932  | 25,528  | 27,467  | 169,032  | 1,807   | 26,593  | 196,500  | 1,132,754   | 17.3 |
| 2001                                | 227 | 10,751 | 224,929 | 235,907 | 380,516  | 175,101 | 137,180 | 616,423  | 1,387,366   | 44.4 |
| 2002                                | 129 | 12,146 | 168,060 | 180,335 | 621,508  | 143,217 | 110,585 | 801,843  | 1,481,359   | 54.1 |
| 2003                                | 162 | 14,597 | 185,930 | 200,689 | 519,784  | 135,067 | 159,323 | 720,473  | 1,490,754   | 48.3 |
| 2004                                | 0   | 10,837 | 105,476 | 116,313 | 527,679  | 68,098  | 95,487  | 643,991  | 1,480,654   | 43.5 |
| 2005                                | 0   | 9,000  | 80,837  | 89,837  | 399,106  | 53,980  | 74,487  | 488,943  | 1,482,990   | 33.0 |
| 2006                                | 0   | 7,044  | 117,324 | 124,368 | 302,323  | 83,028  | 87,403  | 426,691  | 1,486,433   | 28.7 |
| 2007                                | 0   | 2,644  | 120,304 | 122,949 | 311,527  | 92,491  | 84,099  | 434,476  | 1,350,891   | 32.2 |
| 2008                                | 0   | 3,625  | 67,065  | 70,690  | 196,359  | 49,609  | 45,226  | 244,384  | 989,329     | 24.7 |

| BS Pacific Cod Catch by Zones 1991-2008 |     |       |        |        |          |         |         | Total CH | Total Catch | CH % |
|---|-----|-------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                    | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                    | 169 | 6,068 | 13,176 | 19,412 | 58,409   | 13,078  | 17,469  | 77,822   | 209,274     | 37.2 |
| 1992                                    | 183 | 3,346 | 7,819  | 11,347 | 33,117   | 5,664   | 10,197  | 44,464   | 164,440     | 27.0 |
| 1993                                    | 11  | 2,417 | 6,517  | 8,945  | 46,727   | 4,271   | 7,909   | 55,672   | 133,153     | 41.8 |
| 1994                                    | 18  | 5,149 | 10,592 | 15,758 | 60,129   | 10,172  | 14,349  | 75,887   | 172,076     | 44.1 |
| 1995                                    | 130 | 6,505 | 16,424 | 23,059 | 88,348   | 17,436  | 20,285  | 111,407  | 227,570     | 49.0 |
| 1996                                    | 161 | 8,012 | 19,234 | 27,407 | 66,254   | 21,857  | 23,546  | 93,661   | 207,256     | 45.2 |
| 1997                                    | 16  | 5,910 | 20,877 | 26,804 | 70,915   | 18,770  | 23,789  | 97,719   | 230,901     | 42.3 |
| 1998                                    | 145 | 5,415 | 15,963 | 21,523 | 44,689   | 12,207  | 19,750  | 66,212   | 159,904     | 41.4 |
| 1999                                    | 37  | 3,588 | 14,115 | 17,740 | 42,209   | 11,581  | 15,896  | 59,949   | 146,546     | 40.9 |
| 2000                                    | 50  | 4,219 | 14,498 | 18,766 | 45,135   | 12,146  | 14,451  | 63,901   | 149,497     | 42.7 |
| 2001                                    | 26  | 3,610 | 15,766 | 19,402 | 29,548   | 11,705  | 18,130  | 48,950   | 141,124     | 34.7 |
| 2002                                    | 33  | 3,336 | 12,641 | 16,010 | 39,582   | 11,598  | 14,269  | 55,592   | 158,031     | 35.2 |
| 2003                                    | 234 | 8,623 | 14,697 | 23,555 | 45,405   | 17,719  | 21,462  | 68,960   | 178,233     | 38.7 |
| 2004                                    | 20  | 7,736 | 14,534 | 22,290 | 43,493   | 16,477  | 20,357  | 65,784   | 182,478     | 36.1 |
| 2005                                    | 0   | 5,133 | 9,848  | 14,981 | 46,059   | 9,657   | 13,482  | 61,040   | 183,444     | 33.3 |
| 2006                                    | 8   | 4,989 | 8,211  | 13,208 | 43,793   | 8,595   | 12,053  | 57,001   | 167,745     | 34.0 |
| 2007                                    | 3   | 1,322 | 9,201  | 10,526 | 27,632   | 6,371   | 9,316   | 38,158   | 138,855     | 27.5 |
| 2008                                    | 11  | 2,456 | 7,292  | 9,759  | 22,659   | 5,452   | 8,723   | 32,418   | 138,558     | 23.4 |

Table III-1 (continued). Summary of catch (mt) in critical habitat by zones from 1991-2008 in the Bering Sea area.

| BS Atka Mackerel Catch by Zones 1991-2008 |     |       |       |       |          |         |         | Total CH | Total Catch | CH %  |
|---|-----|-------|-------|-------|----------|---------|---------|----------|-------------|-------|
| Year                                      | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |       |
| 1991                                      | 0   | 1,040 | 1,295 | 2,335 | 29       | 2,253   | 2,122   | 2,364    | 2,486       | 95.1  |
| 1992                                      | 0   | 6     | 1,281 | 1,287 | 1,134    | 1,235   | 1,053   | 2,421    | 2,485       | 97.4  |
| 1993                                      | 0   | 0     | 59    | 59    | 52       | 55      | 81      | 111      | 163         | 68.1  |
| 1994                                      | 0   | 4     | 23    | 27    | 108      | 22      | 23      | 135      | 135         | 100.0 |
| 1995                                      | 1   | 124   | 133   | 259   | 75       | 257     | 222     | 333      | 338         | 98.6  |
| 1996                                      | 0   | 47    | 575   | 622   | 137      | 619     | 585     | 759      | 783         | 96.9  |
| 1997                                      | 0   | 40    | 105   | 145   | 24       | 145     | 126     | 169      | 176         | 95.8  |
| 1998                                      | 0   | 112   | 730   | 842   | 51       | 839     | 576     | 893      | 901         | 99.2  |
| 1999                                      | 0   | 6     | 2,102 | 2,108 | 200      | 2,107   | 1,961   | 2,308    | 2,309       | 100.0 |
| 2000                                      | 0   | 0     | 110   | 110   | 1        | 107     | 191     | 111      | 215         | 51.6  |
| 2001                                      | 1   | 3     | 191   | 195   | 10       | 195     | 122     | 205      | 205         | 100.0 |
| 2002                                      | 0   | 29    | 223   | 252   | 61       | 251     | 129     | 313      | 313         | 100.0 |
| 2003                                      | 9   | 417   | 4,440 | 4,866 | 589      | 4,841   | 3,748   | 5,455    | 5,461       | 99.9  |
| 2004                                      | 0   | 504   | 5,009 | 5,513 | 1,005    | 5,508   | 4,584   | 6,518    | 6,532       | 99.8  |
| 2005                                      | 0   | 693   | 2,444 | 3,136 | 364      | 3,088   | 2,759   | 3,500    | 3,518       | 99.5  |
| 2006                                      | 0   | 410   | 2,008 | 2,418 | 696      | 2,296   | 2,176   | 3,114    | 3,139       | 99.2  |
| 2007                                      | 0   | 401   | 2080  | 2481  | 516      | 2,479   | 2,319   | 2,997    | 3,021       | 99.2  |
| 2008                                      | 0   | 49    | 336   | 385   | 6        | 385     | 373     | 391      | 396         | 98.9  |

| BS Arrowtooth Flounder Catch by Zones 1991-2008 |     |       |       |       |          |         |         | Total CH | Total Catch | CH %  |
|---|-----|-------|-------|-------|----------|---------|---------|----------|-------------|-------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |       |
| 1991  | 1   | 802   | 962   | 1,765 | 1,740    | 1,515   | 1,506   | 5,427    | 17,814      | 30.46 |
| 1992  | 0   | 64    | 712   | 776   | 789      | 343     | 706     | 1,566    | 10,965      | 14.28 |
| 1993  | 0   | 86    | 808   | 895   | 1,701    | 708     | 352     | 2,595    | 7,950       | 32.64 |
| 1994  | 14  | 426   | 1,860 | 2,300 | 2,929    | 1,788   | 1,864   | 5,229    | 12,991      | 40.25 |
| 1995  | 1   | 147   | 1,421 | 1,570 | 3,143    | 1,326   | 878     | 4,713    | 8,281       | 56.91 |
| 1996  | 0   | 204   | 1,970 | 2,174 | 4,891    | 1,950   | 869     | 7,065    | 13,307      | 53.09 |
| 1997  | 2   | 132   | 655   | 789   | 2,897    | 460     | 477     | 3,686    | 9,227       | 39.95 |
| 1998  | 0   | 236   | 2,593 | 2,829 | 3,454    | 2,526   | 1,289   | 6,283    | 14,977      | 41.95 |
| 1999  | 0   | 265   | 2,234 | 2,499 | 2,527    | 2,404   | 1,307   | 5,025    | 10,590      | 47.45 |
| 2000  | 1   | 60    | 1,127 | 1,187 | 3,090    | 1,039   | 703     | 4,278    | 12,071      | 35.44 |
| 2001  | 0   | 82    | 1,337 | 1,419 | 4,972    | 1,216   | 746     | 6,392    | 12,837      | 49.79 |
| 2002  | 0   | 95    | 1,606 | 1,701 | 4,730    | 1,503   | 682     | 6,430    | 10,209      | 62.99 |
| 2003  | 0   | 76    | 2,190 | 2,266 | 3,975    | 1,889   | 1,392   | 6,241    | 12,480      | 50.01 |
| 2004  | 0   | 238   | 3,485 | 3,724 | 7,539    | 3,526   | 2,430   | 11,263   | 17,302      | 65.09 |
| 2005  | 0   | 194   | 1,603 | 1,797 | 4,274    | 1,671   | 1,231   | 6,071    | 13,292      | 45.68 |
| 2006  | 0   | 112   | 1,230 | 1,342 | 3,576    | 1,101   | 854     | 4,918    | 11,664      | 42.16 |
| 2007  | 0   | 107   | 1,884 | 1,991 | 2,910    | 1,698   | 1,405   | 4,901    | 10,834      | 45.24 |
| 2008  | 0   | 4,112 | 3,181 | 7,293 | 3,113    | 7,034   | 6,034   | 10,407   | 19,133      | 54.4  |

Table III-2. Summary of catch (mt) in Critical Habitat by zones from 1991-2008 in the Gulf of Alaska area.

| GOA Pollock Catch by Zones 1991-2008 |        |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|--------------------------------------|--------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                 | 0-3    | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                 | 2,836  | 19,892 | 31,218 | 53,946 | 3,194    | 8,658   | 49,804  | 57,140   | 100,481     | 56.9 |
| 1992                                 | 1,996  | 12,647 | 44,919 | 59,562 | 5,493    | 6,224   | 57,402  | 65,056   | 90,848      | 71.6 |
| 1993                                 | 7,233  | 29,652 | 49,416 | 86,300 | 6,885    | 20,378  | 80,951  | 93,185   | 108,901     | 85.6 |
| 1994                                 | 1,856  | 23,898 | 51,133 | 76,886 | 9,113    | 19,134  | 74,840  | 85,999   | 107,328     | 80.1 |
| 1995                                 | 124    | 7,393  | 38,651 | 46,167 | 6,369    | 11,779  | 39,408  | 52,536   | 72,570      | 72.4 |
| 1996                                 | 804    | 9,991  | 23,652 | 34,446 | 4,726    | 5,818   | 33,281  | 39,172   | 51,260      | 76.4 |
| 1997                                 | 2,525  | 20,645 | 33,719 | 56,889 | 9,763    | 2,831   | 55,869  | 66,652   | 89,365      | 74.6 |
| 1998                                 | 10,387 | 31,267 | 45,384 | 87,038 | 12,633   | 3,912   | 86,851  | 99,671   | 125,098     | 79.7 |
| 1999                                 | 1,856  | 15,242 | 46,261 | 63,359 | 15,003   | 3,703   | 63,236  | 78,362   | 95,590      | 82.0 |
| 2000                                 | 204    | 11,729 | 26,611 | 38,544 | 4,131    | 9,743   | 38,464  | 42,675   | 72,923      | 58.5 |
| 2001                                 | 61     | 6,341  | 40,378 | 46,779 | 1,480    | 9,578   | 46,761  | 48,259   | 72,076      | 67.0 |
| 2002                                 | 0      | 6,312  | 18,843 | 25,155 | 2,775    | 3,389   | 25,129  | 27,930   | 51,919      | 53.8 |
| 2003                                 | 0      | 8,689  | 30,103 | 38,792 | 543      | 4,290   | 38,658  | 39,335   | 50,678      | 77.6 |
| 2004                                 | 1      | 4,877  | 42,907 | 47,784 | 2,353    | 6,269   | 47,695  | 50,137   | 63,689      | 78.7 |
| 2005                                 | 920    | 14,298 | 41,420 | 56,639 | 774      | 6,308   | 56,553  | 57,413   | 80,829      | 71.0 |
| 2006                                 | 164    | 7,031  | 39,553 | 46,748 | 529      | 4,302   | 46,584  | 47,278   | 71,871      | 65.8 |
| 2007                                 | 709    | 9,211  | 26,806 | 36,727 | 450      | 6,561   | 36,816  | 37,177   | 52,107      | 71.3 |
| 2008                                 | 162    | 9,820  | 23,140 | 33,122 | 2,767    | 4,738   | 30,958  | 35,895   | 51,965      | 69.0 |

| GOA Pacific Cod Catch by Zones 1991-2008 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                     | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                     | 3,096 | 19,883 | 31,364 | 54,343 | 1,533    | 28,540  | 42,602  | 55,876   | 75,199      | 74.3 |
| 1992                                     | 586   | 14,672 | 42,814 | 58,072 | 699      | 25,993  | 42,499  | 58,796   | 79,469      | 74.0 |
| 1993                                     | 573   | 12,483 | 18,658 | 31,713 | 2,042    | 4,611   | 29,393  | 33,755   | 56,451      | 59.8 |
| 1994                                     | 1,424 | 9,884  | 21,349 | 32,657 | 690      | 12,172  | 27,165  | 33,347   | 45,749      | 72.9 |
| 1995                                     | 773   | 14,925 | 27,368 | 43,066 | 2,334    | 17,382  | 31,960  | 45,400   | 68,876      | 65.9 |
| 1996                                     | 801   | 16,235 | 27,236 | 44,272 | 2,845    | 22,548  | 35,433  | 47,117   | 68,183      | 69.1 |
| 1997                                     | 3,252 | 19,543 | 24,336 | 47,131 | 1,508    | 17,294  | 41,715  | 48,639   | 68,054      | 71.5 |
| 1998                                     | 458   | 13,701 | 25,050 | 39,209 | 2,347    | 14,281  | 34,985  | 41,556   | 61,957      | 67.1 |
| 1999                                     | 816   | 15,495 | 19,611 | 35,923 | 2,682    | 11,098  | 34,451  | 38,605   | 68,068      | 56.7 |
| 2000                                     | 97    | 19,108 | 12,937 | 32,141 | 726      | 13,790  | 31,299  | 32,868   | 53,391      | 61.6 |
| 2001                                     | 334   | 5,711  | 16,194 | 22,239 | 1,094    | 7,773   | 18,860  | 23,333   | 41,451      | 56.3 |
| 2002                                     | 84    | 6,474  | 12,372 | 18,930 | 889      | 4,155   | 17,771  | 19,819   | 42,248      | 46.9 |
| 2003                                     | 18    | 14,277 | 13,871 | 28,166 | 408      | 7,350   | 23,122  | 28,574   | 52,608      | 54.3 |
| 2004                                     | 249   | 12,065 | 17,168 | 29,482 | 1,284    | 3,291   | 27,684  | 30,766   | 56,560      | 54.4 |
| 2005                                     | 163   | 13,591 | 8,894  | 22,648 | 686      | 6,320   | 22,200  | 23,334   | 47,516      | 49.1 |
| 2006                                     | 127   | 4,657  | 12,253 | 17,037 | 1,802    | 2,629   | 16,729  | 18,840   | 47,745      | 39.5 |
| 2007                                     | 13    | 5,158  | 22,209 | 27,380 | 2,175    | 5,432   | 23,556  | 29,555   | 51,381      | 57.5 |
| 2008                                     | 329   | 8,875  | 17,988 | 27,192 | 8,019    | 9,093   | 26,741  | 35,328   | 59,011      | 59.9 |

Table III-2. (Continued). Summary of catch (mt) in Critical Habitat by zones from 1991-2008 in the Gulf of Alaska area.

| GOA Atka Mackerel Cod Catch by Zones 1991-2008 |     |      |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10 | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 0   | 95   | 3,192  | 3,287  | 0        | 3,223   | 67      | 3,287    | 3,301       | 99.6 |
| 1992   | 0   | 1    | 13,698 | 13,699 | 0        | 13,682  | 1,910   | 13,699   | 13,835      | 99.0 |
| 1993   | 0   | 138  | 3,853  | 3,991  | 0        | 4,019   | 18      | 3,991    | 5,133       | 77.7 |
| 1994   | 3   | 67   | 3,111  | 3,181  | 0        | 3,172   | 10      | 3,181    | 3,537       | 89.9 |
| 1995   | 2   | 42   | 234    | 279    | 0        | 219     | 63      | 279      | 699         | 39.9 |
| 1996   | 0   | 279  | 1,015  | 1,294  | 0        | 1,267   | 32      | 1,294    | 1,586       | 81.6 |
| 1997   | 0   | 6    | 317    | 323    | 0        | 261     | 130     | 323      | 328         | 98.5 |
| 1998   | 1   | 0    | 307    | 308    | 0        | 283     | 308     | 308      | 317         | 97   |
| 1999   | 106 | 12   | 5      | 124    | 0        | 6       | 120     | 124      | 261         | 47.4 |
| 2000   | 0   | 0    | 1      | 1      | 1        | 0       | 1       | 1        | 169         | 0.9  |
| 2001   | 0   | 0    | 30     | 30     | 0        | 15      | 17      | 30       | 70          | 43.0 |
| 2002   | 0   | 1    | 16     | 17     | 0        | 2       | 15      | 17       | 85          | 19.8 |
| 2003   | 0   | 102  | 45     | 147    | 0        | 116     | 133     | 147      | 579         | 25.4 |
| 2004   | 0   | 70   | 96     | 166    | 0        | 90      | 76      | 166      | 818         | 20.3 |
| 2005   | 0   | 2    | 122    | 124    | 0        | 31      | 94      | 124      | 798         | 15.6 |
| 2006   | 0   | 8    | 96     | 104    | 0        | 3       | 102     | 104      | 874         | 11.9 |
| 2007   | 0   | 12   | 513    | 525    | 0        | 513     | 25      | 537      | 1,453       | 36.9 |
| 2008   | 0   | 174  | 477    | 651    | 0        | 503     | 345     | 651      | 2,106       | 30.9 |

| GOA Arrowtooth flounder catch by Zones 1991-2008 |     |       |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|-------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 21  | 380   | 2,203  | 2,604  | 101      | 1,139   | 2,165   | 2,705    | 17,352      | 15.6 |
| 1992   | 113 | 1,334 | 5,070  | 6,518  | 187      | 1,771   | 5,846   | 6,705    | 22,010      | 30.5 |
| 1993   | 43  | 960   | 2,964  | 3,967  | 45       | 1,409   | 3,456   | 4,012    | 19,209      | 20.9 |
| 1994   | 136 | 1,105 | 6,555  | 7,796  | 1,571    | 3,739   | 7,442   | 9,366    | 22,958      | 40.8 |
| 1995   | 42  | 1,101 | 3,213  | 4,356  | 1,175    | 1,236   | 3,916   | 5,531    | 18,375      | 30.1 |
| 1996   | 60  | 1,670 | 4,480  | 6,210  | 1,830    | 2,494   | 5,937   | 8,040    | 22,523      | 35.7 |
| 1997   | 89  | 1,521 | 3,906  | 5,515  | 1,003    | 1,054   | 5,021   | 6,518    | 16,411      | 39.7 |
| 1998   | 34  | 952   | 2,164  | 3,150  | 598      | 782     | 2,696   | 3,747    | 13,013      | 28.8 |
| 1999   | 50  | 991   | 3,279  | 4,320  | 1,084    | 1,413   | 3,898   | 5,405    | 16,073      | 33.6 |
| 2000   | 6   | 1,572 | 3,826  | 5,403  | 99       | 1,701   | 4,712   | 5,502    | 24,252      | 22.7 |
| 2001   | 7   | 1,636 | 5,377  | 7,021  | 103      | 1,190   | 6,693   | 7,124    | 19,964      | 35.7 |
| 2002   | 3   | 491   | 4,011  | 4,505  | 709      | 2,203   | 3,812   | 5,214    | 21,222      | 24.6 |
| 2003   | 0   | 1,695 | 11,329 | 13,024 | 1,233    | 3,975   | 11,974  | 14,257   | 30,477      | 46.8 |
| 2004   | 1   | 867   | 6,705  | 7,573  | 927      | 1,553   | 6,793   | 8,499    | 15,335      | 55.4 |
| 2005   | 31  | 2,782 | 10,378 | 13,191 | 1,209    | 1,361   | 12,703  | 14,400   | 19,764      | 72.9 |
| 2006   | 59  | 4,211 | 12,856 | 17,126 | 2,259    | 1,253   | 17,068  | 19,385   | 27,651      | 70.1 |
| 2007   | 114 | 4,078 | 8,375  | 12,567 | 2,272    | 873     | 12,518  | 14,839   | 25,375      | 58.5 |
| 2008   | 1   | 2,428 | 6,869  | 9,298  | 958      | 679     | 9,013   | 10,256   | 29,659      | 34.6 |

Table III-3. Summary of catch (mt) in Critical Habitat by zones from 1991-2008 in the Aleutian Islands area.

| AI Pollock Catch by Zones 1991-2008 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|-------------------------------------|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                | 38    | 7,655  | 65,658 | 73,351 | 4,271    | 2,268   | 73,242  | 77,622   | 98,604      | 78.7 |
| 1992                                | 14    | 6,302  | 20,148 | 26,465 | 17       | 6,488   | 25,488  | 26,482   | 50,205      | 52.7 |
| 1993                                | 32    | 9,770  | 16,417 | 26,219 | 0        | 9,635   | 20,987  | 26,219   | 55,989      | 46.8 |
| 1994                                | 488   | 8,327  | 16,643 | 25,458 | 5,676    | 9,314   | 22,254  | 31,134   | 58,084      | 53.6 |
| 1995                                | 4,647 | 45,743 | 9,887  | 60,277 | 1        | 24,838  | 56,091  | 60,278   | 64,925      | 92.8 |
| 1996                                | 2,069 | 21,152 | 1,938  | 25,159 | 1        | 10,957  | 24,967  | 25,160   | 29,062      | 86.6 |
| 1997                                | 3,329 | 17,460 | 4,330  | 25,118 | 1        | 10,270  | 24,694  | 25,119   | 25,940      | 96.8 |
| 1998                                | 819   | 13,079 | 3,800  | 17,698 | 0        | 2,241   | 17,206  | 17,699   | 23,822      | 74.3 |
| 1999                                | 14    | 458    | 385    | 857    | 0        | 390     | 767     | 857      | 1,010       | 84.9 |
| 2000                                | 169   | 482    | 276    | 927    | 3        | 476     | 876     | 929      | 1,244       | 74.7 |
| 2001                                | 1     | 350    | 303    | 654    | 1        | 535     | 538     | 655      | 820         | 79.9 |
| 2002                                | 0     | 160    | 263    | 424    | 1        | 334     | 322     | 425      | 607         | 70.0 |
| 2003                                | 0     | 432    | 508    | 940    | 11       | 677     | 1,006   | 951      | 1,650       | 57.6 |
| 2004                                | 82    | 226    | 419    | 727    | 0        | 413     | 584     | 727      | 1,148       | 63.3 |
| 2005                                | 41    | 368    | 631    | 1,041  | 1        | 423     | 901     | 1,042    | 1,621       | 64.3 |
| 2006                                | 10    | 222    | 1,189  | 1,420  | 4        | 240     | 1,286   | 1,424    | 1,727       | 82.5 |
| 2007                                | 14    | 265    | 682    | 962    | 5        | 392     | 912     | 967      | 2,523       | 38.3 |
| 2008                                | 7     | 199    | 476    | 681    | 0        | 405     | 583     | 681      | 1,278       | 53.3 |

| AI Pacific Cod Catch by Zones 1991-2008 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|---|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                    | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                    | 536   | 4,637  | 4,138  | 9,310  | 16       | 6,372   | 6,755   | 9,326    | 9,797       | 95.2 |
| 1992                                    | 1,037 | 14,495 | 18,968 | 34,500 | 19       | 20,748  | 23,792  | 34,519   | 42,932      | 80.4 |
| 1993                                    | 346   | 9,536  | 14,016 | 23,897 | 1        | 12,136  | 19,638  | 23,898   | 34,172      | 69.9 |
| 1994                                    | 312   | 6,821  | 11,423 | 18,556 | 3        | 12,967  | 15,905  | 18,560   | 21,399      | 86.7 |
| 1995                                    | 1,316 | 5,523  | 7,938  | 14,777 | 17       | 9,054   | 12,227  | 14,794   | 16,534      | 89.5 |
| 1996                                    | 439   | 9,015  | 14,993 | 24,446 | 3        | 13,874  | 19,982  | 24,449   | 30,526      | 80.1 |
| 1997                                    | 400   | 9,128  | 9,168  | 18,695 | 49       | 10,123  | 16,656  | 18,745   | 25,072      | 74.8 |
| 1998                                    | 818   | 11,611 | 15,560 | 27,989 | 4        | 17,696  | 22,607  | 27,992   | 34,901      | 80.2 |
| 1999                                    | 444   | 10,177 | 13,200 | 23,821 | 1        | 12,465  | 20,238  | 23,822   | 27,166      | 87.7 |
| 2000                                    | 827   | 11,375 | 16,963 | 29,164 | 5        | 14,143  | 24,348  | 29,169   | 38,338      | 76.1 |
| 2001                                    | 274   | 12,084 | 15,011 | 27,369 | 10       | 17,064  | 20,539  | 27,379   | 34,102      | 80.3 |
| 2002                                    | 22    | 5,447  | 20,577 | 26,046 | 2        | 8,063   | 23,389  | 26,048   | 37,596      | 69.3 |
| 2003                                    | 99    | 7,448  | 21,511 | 29,057 | 1        | 11,629  | 20,396  | 29,058   | 32,452      | 89.5 |
| 2004                                    | 72    | 8,404  | 14,576 | 23,053 | 0        | 13,090  | 19,835  | 23,053   | 28,851      | 79.9 |
| 2005                                    | 1     | 5,968  | 12,201 | 18,169 | 0        | 8,716   | 16,728  | 18,169   | 22,466      | 80.9 |
| 2006                                    | 194   | 5,839  | 13,923 | 19,956 | 3        | 6,892   | 17,862  | 19,958   | 23,824      | 83.8 |
| 2007                                    | 62    | 7,658  | 18,831 | 26,552 | 1        | 8,399   | 24,042  | 26,552   | 33,121      | 80.2 |
| 2008                                    | 50    | 9,893  | 17,379 | 27,322 | 0        | 13,170  | 23,131  | 27,322   | 32,192      | 84.9 |

Table III-3 (continued). Summary of catch (mt) in Critical Habitat by zones from 1991-2008 in the Aleutian Islands area.

| AI Atka Mackerel Catch by Zones 1991-2008 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|---|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                      | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                      | 300   | 21,080 | 1,250  | 22,629 | 3        | 22,370  | 22,425  | 22,632   | 24,140      | 93.8 |
| 1992                                      | 760   | 4,373  | 7,040  | 12,173 | 0        | 7,140   | 10,998  | 12,173   | 45,103      | 27.0 |
| 1993                                      | 191   | 791    | 26,219 | 27,201 | 0        | 54,867  | 24,739  | 27,201   | 64,934      | 41.9 |
| 1994                                      | 1,032 | 4,960  | 38,018 | 44,010 | 0        | 36,627  | 38,497  | 44,010   | 64,457      | 68.3 |
| 1995                                      | 205   | 6,141  | 62,025 | 68,370 | 0        | 62,755  | 41,611  | 68,370   | 81,214      | 84.2 |
| 1996                                      | 1,004 | 9,983  | 64,488 | 75,476 | 1        | 59,826  | 44,003  | 75,476   | 103,158     | 73.2 |
| 1997                                      | 2,039 | 4,460  | 45,892 | 52,391 | 0        | 41,717  | 32,589  | 52,391   | 65,665      | 79.8 |
| 1998                                      | 75    | 2,935  | 42,556 | 45,566 | 0        | 39,608  | 23,979  | 45,566   | 56,196      | 81.1 |
| 1999                                      | 237   | 7,484  | 20,338 | 28,059 | 0        | 23,354  | 16,965  | 28,059   | 53,928      | 52.0 |
| 2000                                      | 676   | 2,390  | 16,132 | 19,198 | 0        | 17,233  | 6,956   | 19,198   | 46,403      | 41.4 |
| 2001                                      | 392   | 4,463  | 22,021 | 26,876 | 0        | 23,764  | 15,249  | 26,876   | 60,545      | 44.4 |
| 2002                                      | 41    | 1,303  | 19,486 | 20,830 | 0        | 17,880  | 5,977   | 20,830   | 44,331      | 47.0 |
| 2003                                      | 0     | 712    | 20,359 | 21,072 | 1        | 16,070  | 6,254   | 21,073   | 52,912      | 39.8 |
| 2004                                      | 69    | 363    | 16,036 | 16,468 | 0        | 15,774  | 3,574   | 16,468   | 52,523      | 31.4 |
| 2005                                      | 15    | 828    | 23,311 | 24,155 | 3        | 24,038  | 13,721  | 24,157   | 58,475      | 41.3 |
| 2006                                      | 0     | 420    | 22,374 | 22,794 | 0        | 22,649  | 5,106   | 22,795   | 58,571      | 38.9 |
| 2007                                      | 85    | 370    | 15,849 | 16,303 | 0        | 15,648  | 8,697   | 16,303   | 55,566      | 29.3 |
| 2008                                      | 0     | 348    | 19,179 | 19,527 | 0        | 7,244   | 11,306  | 19,527   | 57,690      | 33.8 |

| AI Arrowtooth Flounder Catch by Zones 1991-2008 |     |      |       |       |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 12  | 460  | 1,008 | 1,480 | 22       | 1,260   | 571     | 1,502    | 1,676       | 89.7 |
| 1992  | 4   | 115  | 393   | 512   | 22       | 269     | 355     | 534      | 947         | 56.4 |
| 1993  | 13  | 122  | 757   | 892   | 10       | 630     | 453     | 902      | 1,346       | 67.0 |
| 1994  | 3   | 97   | 882   | 982   | 33       | 774     | 597     | 1,015    | 1,307       | 77.6 |
| 1995  | 9   | 118  | 590   | 717   | 14       | 576     | 610     | 731      | 1,001       | 73.1 |
| 1996  | 6   | 143  | 983   | 1,133 | 14       | 1,019   | 285     | 1,147    | 1,345       | 85.2 |
| 1997  | 12  | 302  | 685   | 999   | 0        | 811     | 514     | 999      | 1,240       | 80.6 |
| 1998  | 3   | 83   | 262   | 347   | 14       | 255     | 275     | 361      | 695         | 52.0 |
| 1999  | 6   | 198  | 311   | 515   | 5        | 331     | 410     | 520      | 782         | 66.5 |
| 2000  | 13  | 232  | 425   | 670   | 3        | 475     | 466     | 673      | 1,156       | 58.2 |
| 2001  | 5   | 354  | 459   | 818   | 20       | 526     | 631     | 838      | 1,220       | 68.7 |
| 2002  | 4   | 186  | 789   | 979   | 33       | 708     | 682     | 1,012    | 1,602       | 63.2 |
| 2003  | 18  | 122  | 467   | 607   | 45       | 389     | 527     | 653      | 986         | 66.2 |
| 2004  | 18  | 170  | 259   | 447   | 14       | 302     | 342     | 462      | 802         | 57.6 |
| 2005  | 11  | 179  | 345   | 535   | 37       | 449     | 356     | 571      | 831         | 68.7 |
| 2006  | 13  | 295  | 367   | 674   | 36       | 567     | 409     | 711      | 1,451       | 49.0 |
| 2007  | 10  | 128  | 220   | 359   | 32       | 225     | 305     | 390      | 800         | 48.8 |
| 2008  | 4   | 978  | 1,171 | 2,153 | 8        | 2,026   | 883     | 2,161    | 2,516       | 85.9 |

Table III-4

Comparison of the change from 1999 and 2005 as a percent of the portion of catch in critical habitat by zones.  
 A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH"  
 refers to the total catch (mt) in critical habitat areas including the foraging areas.

| Gulf of Alaska      |      | GOA % of Total Catch in CH areas |      |           |          |          | Change from 1999 to 2005 as % |         |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|----------------------------------|------|-----------|----------|----------|-------------------------------|---------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                              | 3-10 | 10-<br>20 | Foraging | Total CH | 3-10                          | 10-20   | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 1.9                              | 15.9 | 48.4      | 15.7     | 82.0     | +10.9%                        | +6.0%   | -13.4%   | 78,227                     | -26.6%  | 95,428                               | -15.3% decrease                       |
|                     | 2005 | 1.1                              | 17.7 | 51.3      | 1.0      | 71.0     |                               |         |          | 57,396                     |   | 80,811                               |                                       |
| Cod Trawl           | 1999 | 1.9                              | 25.5 | 28.0      | 0.9      | 56.3     | -30.2%                        | -8.9%   | -20.4%   | 20,800                     | -68.7%  | 36,925                               | -60.7% decrease                       |
|                     | 2005 | 0.0                              | 17.8 | 25.5      | 1.5      | 44.8     |                               |         |          | 6,507                      |   | 14,509                               |                                       |
| Cod Pot             | 1999 | 0.5                              | 14.8 | 21.0      | 12.5     | 48.8     | +42.7%                        | -9.3%   | -15.0%   | 9,164                      | +10.3%  | 18,786                               | +29.8% increase                       |
|                     | 2005 | 0.7                              | 21.1 | 19.1      | 0.7      | 41.5     |                               |         |          | 10,105                     |   | 24,377                               |                                       |
| Cod Longline        | 1999 | 0.1                              | 26.7 | 43.2      | 0.0      | 69.9     | +155.0%                       | -85.2%  | +11.4%   | 8,641                      | -22.2%  | 12,358                               | -30.2% decrease                       |
|                     | 2005 | 0.0                              | 68.0 | 6.4       | 3.5      | 77.9     |                               |         |          | 6,722                      |   | 8,631                                |                                       |
| Atka Mackerel Trawl | 1999 | 40.7                             | 4.7  | 2.1       | 0.0      | 47.4     | -97.2%                        | +650.3% | -67.2%   | 124                        | -1.7%   | 260                                  | +199.2% increase                      |
|                     | 2005 | 0.0                              | 0.1  | 15.4      | 0.0      | 15.6     |                               |         |          | 121                        |   | 779                                  |                                       |

| Bering Sea          |      | BS % of Total Catch in CH areas |      |           |          |          | Change from 1999 to 2005 as % |         |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|---------------------------------|------|-----------|----------|----------|-------------------------------|---------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                             | 3-10 | 10-<br>20 | Foraging | Total CH | 3-10                          | 10-20   | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 0.0                             | 0.0  | 0.5       | 36.1     | 36.6     | +1286.1%                      | +993.5% | -9.8%    | 361,120                    | +35.3%  | 985,914                              | +50.0% increase                       |
|                     | 2005 | 0.0                             | 0.6  | 5.5       | 27.0     | 33.0     |                               |         |          | 488,492                    |   | 1,478,746                            |                                       |
| P. Cod Trawl        | 1999 | 0.0                             | 0.0  | 1.5       | 60.9     | 62.4     | +2098.6%                      | +256.6% | +6.8%    | 32,362                     | +8.3%   | 51,893                               | +1.4% increase                        |
|                     | 2005 | 0.0                             | 0.4  | 5.2       | 61.0     | 66.6     |                               |         |          | 35,054                     |   | 52,621                               |                                       |
| P. Cod Pot          | 1999 | 0.2                             | 16.2 | 42.8      | 27.7     | 86.8     | +30.5%                        | -64.1%  | -18.5%   | 10,711                     | +12.0%  | 12,333                               | +37.4% increase                       |
|                     | 2005 | 0.0                             | 21.1 | 15.4      | 34.3     | 70.8     |                               |         |          | 11,994                     |   | 16,947                               |                                       |
| P. Cod Longline     | 1999 | 0.0                             | 1.9  | 9.8       | 8.7      | 20.5     | -38.5%                        | -59.6%  | -40.1%   | 16,867                     | -17.0%  | 82,320                               | +38.3%                                |
|                     | 2005 | 0.0                             | 1.2  | 4.0       | 7.1      | 12.3     |                               |         |          | 13,992                     |   | 113,876                              |                                       |
| Atka Mackerel Trawl | 1999 | 0.0                             | 0.0  | 91.3      | 8.6      | 100.0    | +229504.5%                    | -20.7%  | -0.4%    | 2,298                      | +42.8%  | 2,299                                | +43.5% increase                       |
|                     | 2005 | 0.0                             | 16.2 | 72.4      | 11.0     | 99.5     |                               |         |          | 3,282                      |   | 3,298                                |                                       |

Table III-4. Continued.

| Aleutian Islands    |      | AI % of Total Catch in CH areas |      |           |          |          | Change from 1999 to 2005 as % |         |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|---------------------------------|------|-----------|----------|----------|-------------------------------|---------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                             | 3-10 | 10-<br>20 | Foraging | Total CH | 3-10                          | 10-20   | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 1.3                             | 45.3 | 38.4      | 0.0      | 85.0     | -50.1%                        | +1.7%   | -24.4%   | 846                        | +22.8%  | 996                                  | +62.5% increase                       |
|                     | 2005 | 2.5                             | 22.6 | 39.0      | 0.1      | 64.2     |                               |         |          | 1,039                      |   | 1,618                                |                                       |
| P. Cod Trawl        | 1999 | 1.0                             | 29.7 | 54.8      | 0.0      | 85.5     | -26.2%                        | +9.9%   | -3.9%    | 14,056                     | +14.7%  | 16,437                               | +19.3% increase                       |
|                     | 2005 | 0.0                             | 21.9 | 60.2      | 0.0      | 82.2     |                               |         |          | 16,116                     |   | 19,613                               |                                       |
| P. Cod Pot          | 1999 | 5.0                             | 43.8 | 47.8      | 0.0      | 96.5     | +27.3%                        | -100.0% | -42.3%   | 2,755                      | -100.0%   | 2,854                                | -100.0% decrease                      |
|                     | 2005 | 0.0                             | 55.7 | 0.0       | 0.0      | 55.7     |                               |         |          | 0.012                      |   | 0.021                                |                                       |
| P. Cod Longline     | 1999 | 1.8                             | 51.4 | 35.9      | 0.0      | 89.0     | +13.9%                        | -62.4%  | -19.2%   | 7,011                      | -70.7%  | 7,875                                | -63.8% decrease                       |
|                     | 2005 | 0.0                             | 58.5 | 13.5      | 0.0      | 72.0     |                               |         |          | 2,054                      |   | 2,853                                |                                       |
| Atka Mackerel Trawl | 1999 | 0.4                             | 13.8 | 37.7      | 0.0      | 52.0     | -90.0%                        | +5.7%   | -20.5%   | 27,987                     | -13.8%  | 53,856                               | +8.5%                                 |
|                     | 2005 | 0.0                             | 1.4  | 39.9      | 0.0      | 41.3     |                               |         |          | 24,138                     |   | 58,455                               |                                       |

| BS, AI, and GOA combined             |      | % of Total Catch in all CH areas |      |           |          |          | Change from 1999 to 2005 as % |       |          |
|--------------------------------------|------|----------------------------------|------|-----------|----------|----------|-------------------------------|-------|----------|
| ALL GEAR                             |      | 0-3                              | 3-10 | 10-<br>20 | Foraging | Total CH | 3-10                          | 10-20 | Total CH |
| All Pollock, cod, mackerel fisheries | 1999 | 0.3%                             | 3.8% | 8.8%      | 30.0%    | 42.9%    | -30.4%                        | +9.4% | -20.7%   |
|                                      | 2005 | 0.1%                             | 2.7% | 9.6%      | 23.8%    | 36.1%    |                               |       |          |

**Table III-5**

Comparison of the change from 1999 and 2007 as a percent of the portion of catch in critical habitat by zones.  
A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH"  
refers to the total catch (mt) in critical habitat areas including the foraging areas.

| Gulf of Alaska      |      | GOA % of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2007 as % |          |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|----------------------------------|------|-------|----------|----------|-------------------------------|----------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20    | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 1.9                              | 15.9 | 48.4  | 15.7     | 82.0     | +10.9%                        | +6.5%    | -12.9%   | 78,227                     | -52.6%  | 95,428                               | -45.6% decrease                       |
|                     | 2007 | 1.4                              | 17.7 | 51.5  | 0.8      | 71.4     |                               |          |          | 37,060                     |   | 51,916                               |                                       |
| Cod Trawl           | 1999 | 1.9                              | 25.5 | 28.0  | 0.9      | 56.3     | -55.4%                        | +81.1%   | +13.0%   | 20,800                     | -54.9%  | 36,925                               | -60.1% decrease                       |
|                     | 2007 | 0.1                              | 11.4 | 50.7  | 1.5      | 63.7     |                               |          |          | 9,387                      |   | 14,746                               |                                       |
| Cod Pot             | 1999 | 0.5                              | 14.8 | 21.0  | 12.5     | 48.8     | -49.5%                        | +82.5%   | -6.1%    | 9,164                      | +21.9%  | 18,786                               | +29.8% increase                       |
|                     | 2007 | 0.0                              | 7.5  | 38.4  | 0.0      | 45.8     |                               |          |          | 11,175                     |   | 24,382                               |                                       |
| Cod Longline        | 1999 | 0.1                              | 26.7 | 43.2  | 0.0      | 69.9     | -49.2%                        | +1.8%    | +5.0%    | 8,641                      | +4.1%   | 12,358                               | -0.9%                                 |
|                     | 2007 | 0.0                              | 13.6 | 44.0  | 44.0     | 73.4     |                               |          |          | 8,993                      |   | 12,252                               |                                       |
| Atka Mackerel Trawl | 1999 | 40.7                             | 4.7  | 2.1   | 0.0      | 47.4     | -83.0%                        | +1619.3% | -22.0%   | 124                        | +333.3%   | 260                                  | +455.7% increase                      |
|                     | 2007 | 0.0                              | 0.8  | 35.4  | 0.0      | 37.0     |                               |          |          | 535                        |   | 1,447                                |                                       |

| Bering Sea          |      | BS % of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2007 as % |          |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|---------------------------------|------|-------|----------|----------|-------------------------------|----------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                             | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20    | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 0.0                             | 0.0  | 0.5   | 36.1     | 36.6     | +343.1%                       | +1686.0% | -12.1%   | 361,120                    | +20.2%  | 985,914                              | +36.7% increase                       |
|                     | 2007 | 0.0                             | 0.2  | 8.9   | 23.1     | 32.2     |                               |          |          | 434,090                    |   | 1,347,549                            |                                       |
| P. Cod Trawl        | 1999 | 0.0                             | 0.0  | 1.5   | 60.9     | 62.4     | +956.5%                       | +274.5%  | -17.0%   | 32,362                     | -26.9%  | 51,893                               | -11.9% decrease                       |
|                     | 2007 | 0.0                             | 0.2  | 5.4   | 46.1     | 51.8     |                               |          |          | 23,665                     |   | 45,710                               |                                       |
| P. Cod Pot          | 1999 | 0.2                             | 16.2 | 42.8  | 27.7     | 86.8     | -86.2%                        | -52.1%   | -46.2%   | 10,711                     | -25.0%  | 12,333                               | +39.4% increase                       |
|                     | 2007 | 0.0                             | 2.2  | 20.5  | 24.0     | 46.7     |                               |          |          | 8,033                      |   | 17,192                               |                                       |
| P. Cod Longline     | 1999 | 0.0                             | 1.9  | 9.8   | 8.7      | 20.5     | -41.7%                        | -57.3%   | -58.5%   | 16,867                     | -61.7%  | 82,320                               | -7.7% decrease                        |
|                     | 2007 | 0.0                             | 1.1  | 4.2   | 3.2      | 8.5      |                               |          |          | 6,460                      |   | 75,953                               |                                       |
| Atka Mackerel Trawl | 1999 | 0.0                             | 0.0  | 91.3  | 8.6      | 100.0    | +180270.1%                    | -24.1%   | -0.6%    | 2,298                      | +27.9%  | 2,299                                | +28.8% increase                       |
|                     | 2007 | 0.0                             | 12.7 | 69.3  | 17.3     | 99.3     |                               |          |          | 2,940                      |   | 2,960                                |                                       |

**Table III-5.** Continued.

| Aleutian Islands                        |      | AI % of Total Catch in CH areas         |             |              |                 |                 | Change from 1999 to 2007 as %        |              |                 | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---|------|---|-------------|--------------|-----------------|-----------------|--------------------------------------|--------------|-----------------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                                    | Year | 0-3                                     | 3-10        | 10-20        | Foraging        | Total CH        | 3-10                                 | 10-20        | Total CH        |                            |   |                                      |                                       |
| Pollock trawl                           | 1999 | 1.3                                     | 45.3        | 38.4         | 0.0             | 85.0            | -76.9%                               | -29.7%       | -55.0%          | 846                        | +13.5%  | 996                                  | +152.6% increase                      |
|   | 2007 | 0.6                                     | 10.5        | 27.0         | 0.2             | 38.2            |                                      |              |                 | 961                        |   | 2,515                                |                                       |
| P. Cod Trawl                            | 1999 | 1.0                                     | 29.7        | 54.8         | 0.0             | 85.5            | -28.3%                               | +7.5%        | -6.0%           | 14,056                     | +63.7%  | 16,437                               | +74.1% increase                       |
|   | 2007 | 0.2                                     | 21.3        | 58.9         | 0.0             | 80.4            |                                      |              |                 | 23,009                     |   | 28,620                               |                                       |
| P. Cod Pot                              | 1999 | 5.0                                     | 43.8        | 47.8         | 0.0             | 96.5            | -73.2%                               | +83.2%       | +2.8%           | 2,755                      | -99.9%  | 2,854                                | -99.9% decrease                       |
|   | 2007 | 0.0                                     | 11.7        | 87.5         | 0.0             | 99.2            |                                      |              |                 | 2                          |   | 2                                    |                                       |
| P. Cod Longline                         | 1999 | 1.8                                     | 51.4        | 35.9         | 0.0             | 89.0            | -32.4%                               | +21.6%       | -11.6%          | 7,011                      | -49.5%  | 7,875                                | -42.9% decrease                       |
|   | 2007 | 0.4                                     | 34.7        | 43.7         | 0.0             | 78.7            |                                      |              |                 | 3,541                      |   | 4,499                                |                                       |
| Atka Mackerel Trawl                     | 1999 | 0.4                                     | 13.8        | 37.7         | 0.0             | 52.0            | -95.4%                               | -24.4%       | -43.6%          | 27,987                     | -41.8%  | 53,856                               | +3.1% increase                        |
|   | 2007 | 0.2                                     | 0.6         | 28.5         | 0.0             | 29.3            |                                      |              |                 | 16,278                     |   | 55,541                               |                                       |
| <b>BS, AI, and GOA combined</b>         |      | <b>% of Total Catch in all CH areas</b> |             |              |                 |                 | <b>Change from 1999 to 2007 as %</b> |              |                 |                            |   |                                      |                                       |
| <b>ALL GEAR</b>                         |      | <b>0-3</b>                              | <b>3-10</b> | <b>10-20</b> | <b>Foraging</b> | <b>Total CH</b> | <b>3-10</b>                          | <b>10-20</b> | <b>Total CH</b> |                            |   |                                      |                                       |
| All Pollock, cod,<br>mackerel fisheries | 1999 | 0.3%                                    | 3.8%        | 8.8%         | 30.1%           | 42.9%           | -58.1%                               | +46.3%       | -32.6%          |                            |   |                                      |                                       |
|   | 2007 | 0.1%                                    | 1.6%        | 12.8%        | 20.3%           | 34.7%           |                                      |              |                 |                            |   |                                      |                                       |

**Table III-6.**

Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat by zones.  
A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH"  
refers to the total catch (mt) in critical habitat areas including the foraging areas.

| Gulf of Alaska      |      | GOA % of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2008 as % |         |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|----------------------------------|------|-------|----------|----------|-------------------------------|---------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20   | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 1.9                              | 15.9 | 48.4  | 15.7     | 82.0     | +17.2%                        | -7.8%   | -16.0%   | 78,227                     | -54.5%  | 95,428                               | -45.9% decrease                       |
|                     | 2008 | 0.3                              | 18.7 | 44.6  | 5.3      | 68.9     |                               |         |          | 35,575                     |   | 51,639                               |                                       |
| Cod Trawl           | 1999 | 1.9                              | 25.5 | 28.0  | 0.9      | 56.3     | -18.4%                        | -22.2%  | -22.2%   | 20,800                     | -57.6%  | 36,925                               | -45.5% decrease                       |
|                     | 2008 | 0.0                              | 20.8 | 21.8  | 1.2      | 43.8     |                               |         |          | 8,822                      |   | 20,142                               |                                       |
| Cod Pot             | 1999 | 0.5                              | 14.8 | 21.0  | 12.5     | 48.8     | +16.1%                        | +49.8%  | +3.2%    | 9,164                      | +5.9%   | 18,786                               | +2.6%                                 |
|                     | 2008 | 1.7                              | 17.1 | 31.5  | 0.0      | 50.3     |                               |         |          | 9,703                      |   | 19,278                               |                                       |
| Cod Longline        | 1999 | 0.1                              | 26.7 | 43.2  | 0.0      | 69.9     | -73.6%                        | -10.9%  | +22.7%   | 8,641                      | +94.5%  | 12,358                               | +58.5% increase                       |
|                     | 2008 | 0.0                              | 7.0  | 38.4  | 39.7     | 85.8     |                               |         |          | 16,803                     |   | 19,591                               |                                       |
| Atka Mackerel Trawl | 1999 | 40.7                             | 4.7  | 2.1   | 0.0      | 47.4     | +76.9%                        | +972.6% | -35.9%   | 124                        | +413.5%   | 260                                  | +701.6% increase                      |
|                     | 2008 | 0.0                              | 8.3  | 22.1  | 0.0      | 30.4     |                               |         |          | 634                        |   | 2,087                                |                                       |

| Bering Sea          |      | BS % of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2008 as % |          |          | AMT (mt)<br>catch in<br>CH | % change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>(mt) entire<br>region | as % change in amt<br>caught from '99 |
|---------------------|------|---------------------------------|------|-------|----------|----------|-------------------------------|----------|----------|----------------------------|---|--------------------------------------|---------------------------------------|
| Gear                | Year | 0-3                             | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20    | Total CH |                            |   |                                      |                                       |
| Pollock trawl       | 1999 | 0.0                             | 0.0  | 0.5   | 36.1     | 36.6     | +739.5%                       | +1262.9% | -32.5%   | 361,120                    | -32.6%  | 985,914                              | -0.2%                                 |
|                     | 2008 | 0.0                             | 0.4  | 6.8   | 17.6     | 24.7     |                               |          |          | 243,432                    |   | 984,081                              |                                       |
| P. Cod Trawl        | 1999 | 0.0                             | 0.0  | 1.5   | 60.9     | 62.4     | +2566.4%                      | +329.8%  | -24.5%   | 32,362                     | -51.3%  | 51,893                               | -35.5% decrease                       |
|                     | 2008 | 0.0                             | 0.5  | 6.3   | 40.3     | 47.1     |                               |          |          | 15,762                     |   | 33,483                               |                                       |
| P. Cod Pot          | 1999 | 0.2                             | 16.2 | 42.8  | 27.7     | 86.8     | -28.5%                        | -55.3%   | -39.9%   | 10,711                     | -17.7%  | 12,333                               | +36.8% increase                       |
|                     | 2008 | 0.0                             | 11.6 | 19.1  | 21.6     | 52.2     |                               |          |          | 8,815                      |   | 16,877                               |                                       |
| P. Cod Longline     | 1999 | 0.0                             | 1.9  | 9.8   | 8.7      | 20.5     | -79.8%                        | -77.2%   | -56.6%   | 16,867                     | -53.5%  | 82,320                               | +7.1% increase                        |
|                     | 2008 | 0.0                             | 0.4  | 2.2   | 6.3      | 8.9      |                               |          |          | 7,842                      |   | 88,198                               |                                       |
| Atka Mackerel Trawl | 1999 | 0.0                             | 0.0  | 91.3  | 8.6      | 100.0    | +2798.2%                      | +6.1%    | -1.0%    | 2,298                      | -85.7%  | 2,299                                | -85.6% decrease                       |
|                     | 2008 | 0.0                             | 0.2  | 96.9  | 1.8      | 98.9     |                               |          |          | 328                        |   | 332                                  |                                       |

**Table III-6.** Continued.

| Aleutian Islands                     |      | AI % of Total Catch in CH areas         |             |              |                 |                 | Change from 1999 to 2008 as %        |              |                 | AMT (mt) catch in CH | % change in amount of fish removed from CH | Total Catch (mt) entire region | as % change in amt caught from '99 |
|--------------------------------------|------|---|-------------|--------------|-----------------|-----------------|--------------------------------------|--------------|-----------------|----------------------|--|--------------------------------|------------------------------------|
| Gear                                 | Year | 0-3                                     | 3-10        | 10-20        | Foraging        | Total CH        | 3-10                                 | 10-20        | Total CH        |                      |  |                                |                                    |
| Pollock trawl                        | 1999 | 1.3                                     | 45.3        | 38.4         | 0.0             | 85.0            | -66.3%                               | -2.9%        | -37.5%          | 846                  | -20.4%                                     | 996                            | +27.4% increase                    |
|                                      | 2008 | 0.5                                     | 15.3        | 37.3         | 0.0             | 53.1            |                                      |              |                 | 673                  |  | 1,269                          |                                    |
| P. Cod Trawl                         | 1999 | 1.0                                     | 29.7        | 54.8         | 0.0             | 85.5            | -33.6%                               | +18.0%       | -1.3%           | 14,056               | +38.7%                                     | 16,437                         | +40.5% increase                    |
|                                      | 2008 | 0.0                                     | 19.7        | 64.7         | 0.0             | 84.4            |                                      |              |                 | 19,497               |  | 23,094                         |                                    |
| P. Cod Pot                           | 1999 | 5.0                                     | 43.8        | 47.8         | 0.0             | 96.5            | -100.0%                              | -100.0%      | -100.0%         | 2,755                | -100.0%                                    | 2,854                          | -85.6% decrease                    |
|                                      | 2008 | 0.0                                     | 0.0         | 0.0          | 0.0             | 0.0             |                                      |              |                 | 0                    |  | 410                            |                                    |
| P. Cod Longline                      | 1999 | 1.8                                     | 51.4        | 35.9         | 0.0             | 89.0            | +19.6%                               | -21.9%       | +1.2%           | 7,011                | +11.6%                                     | 7,875                          | +10.3% increase                    |
|                                      | 2008 | 0.6                                     | 61.4        | 28.1         | 0.0             | 90.1            |                                      |              |                 | 7,825                |  | 8,689                          |                                    |
| Atka Mackerel Trawl                  | 1999 | 0.4                                     | 13.8        | 37.7         | 0.0             | 52.0            | -96.1%                               | -12.7%       | -35.6%          | 27,987               | -31.1%                                     | 53,856                         | +7.0% increase                     |
|                                      | 2008 | 0.0                                     | 0.5         | 32.9         | 0.0             | 33.5            |                                      |              |                 | 19,291               |  | 57,642                         |                                    |
| <b>BS, AI, and GOA combined</b>      |      | <b>% of Total Catch in all CH areas</b> |             |              |                 |                 | <b>Change from 1999 to 2008 as %</b> |              |                 |                      |  |                                |                                    |
| <b>ALL GEAR</b>                      |      | <b>0-3</b>                              | <b>3-10</b> | <b>10-20</b> | <b>Foraging</b> | <b>Total CH</b> | <b>3-10</b>                          | <b>10-20</b> | <b>Total CH</b> |                      |  |                                |                                    |
| All Pollock, cod, mackerel fisheries | 1999 | 0.3%                                    | 3.8%        | 8.8%         | 30.1%           | 42.9%           | -30.4%                               | +31.4%       | -48.2%          |                      |  |                                |                                    |
|                                      | 2008 | 0.0%                                    | 2.7%        | 11.5%        | 15.6%           | 29.8%           |                                      |              |                 |                      |  |                                |                                    |

**APPENDIX IV**  
**FISHERIES CATCH DATA IN CRITICAL HABITAT- FIGURES  
AND TABLES**

Figure IV-1.1. RCA 1: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

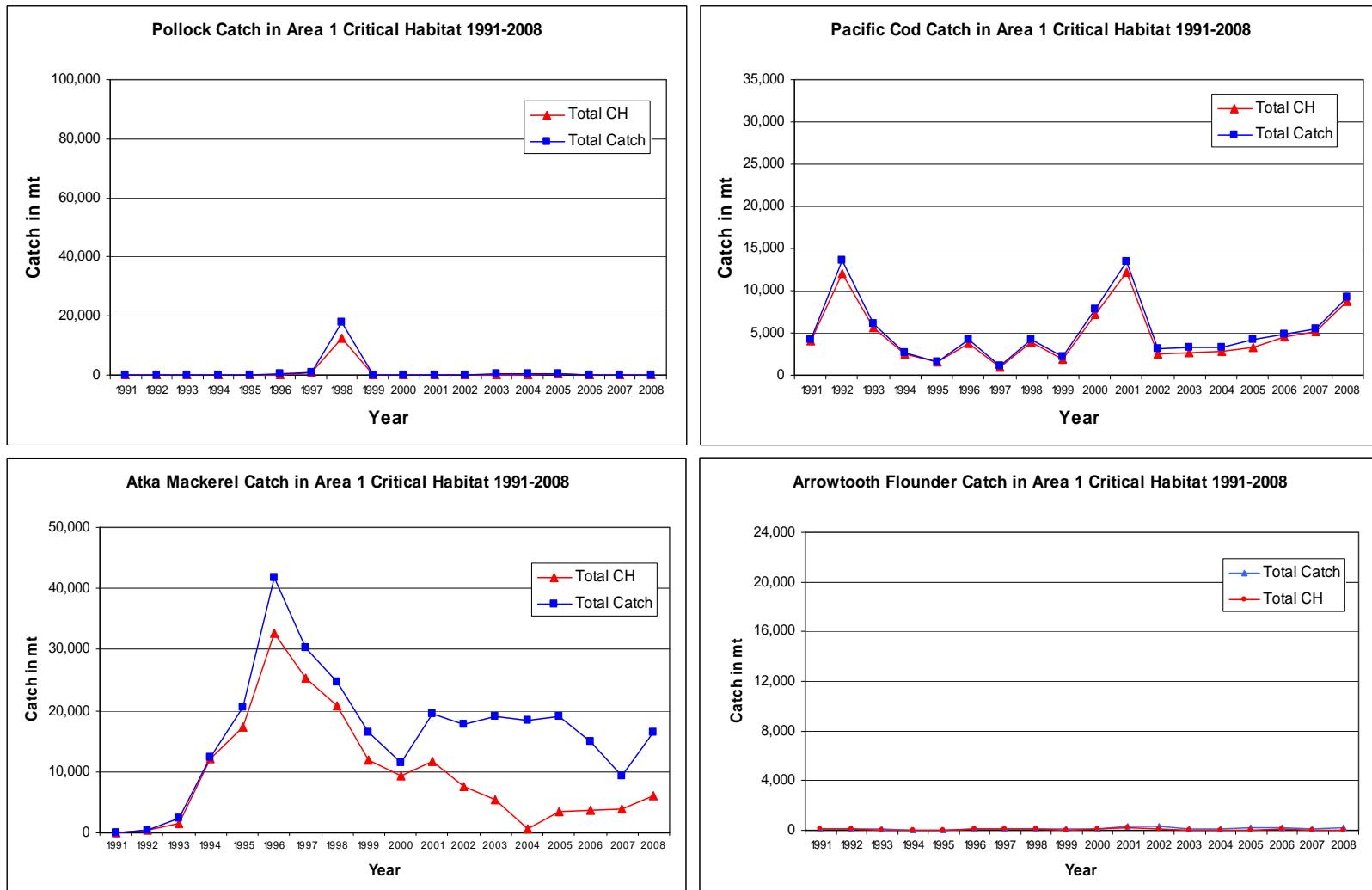


Figure IV-1.2. RCA 2: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

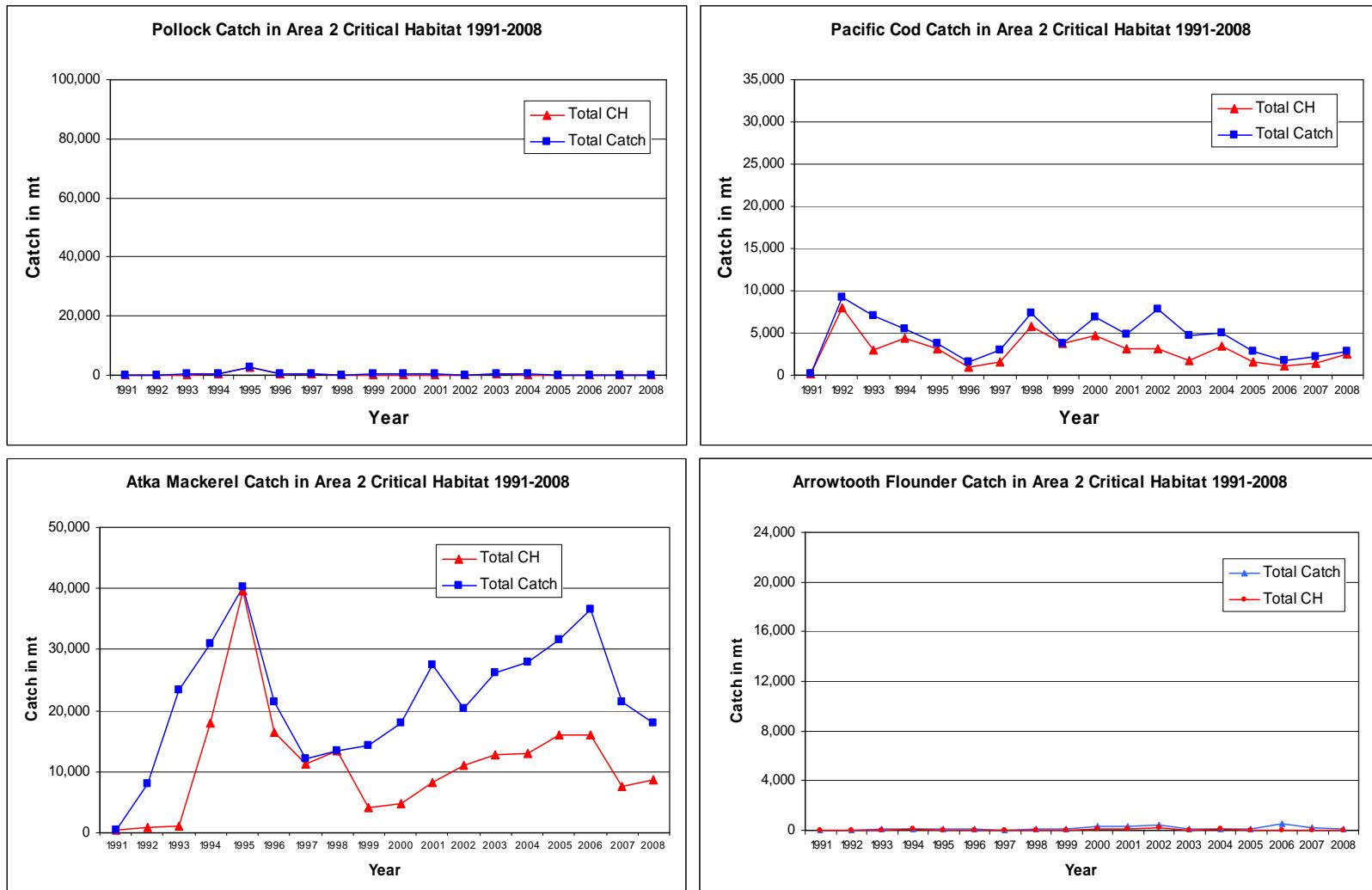


Figure IV-1.3. RCA 3: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

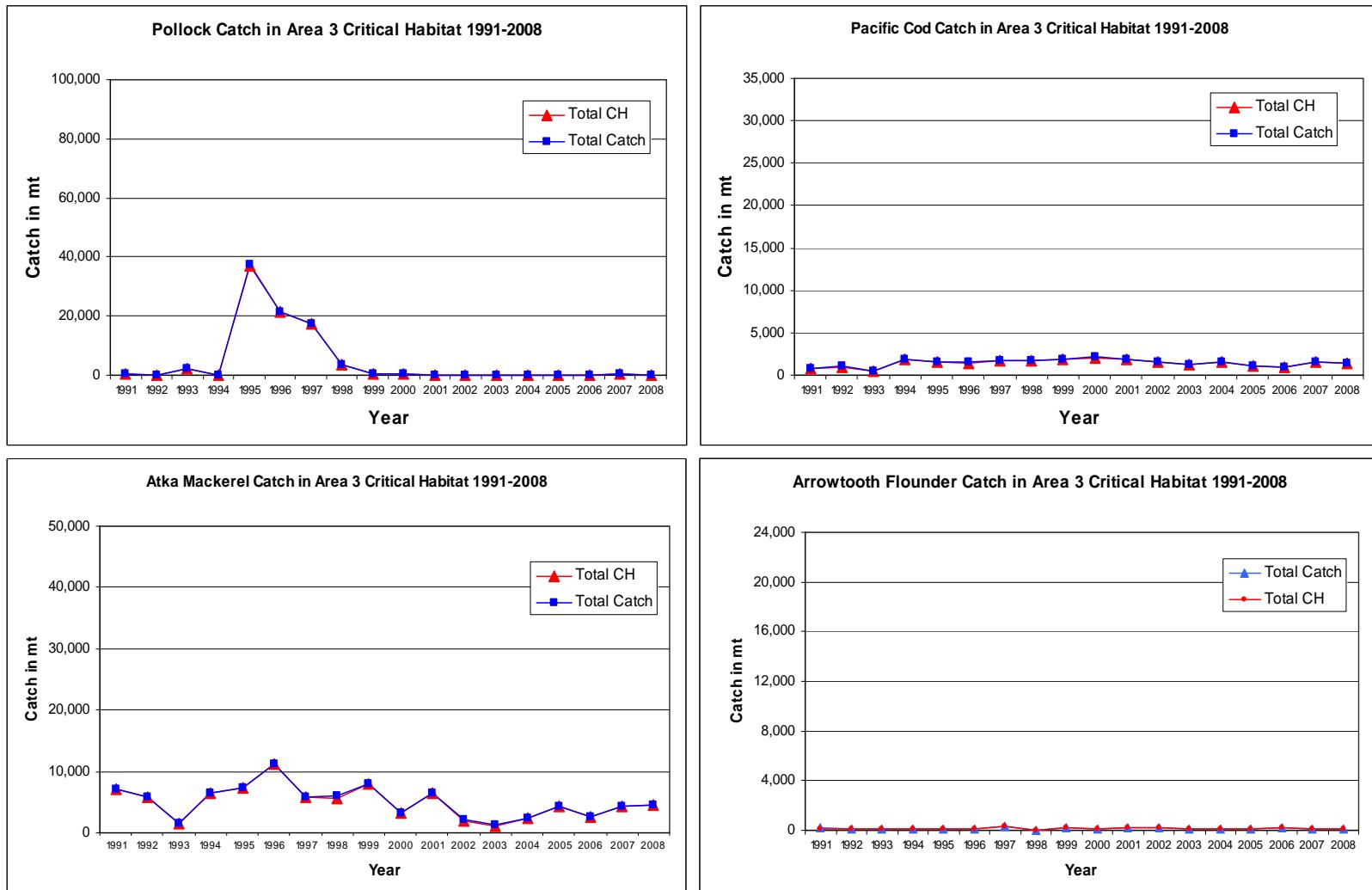


Figure IV-1.4. RCA 4: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

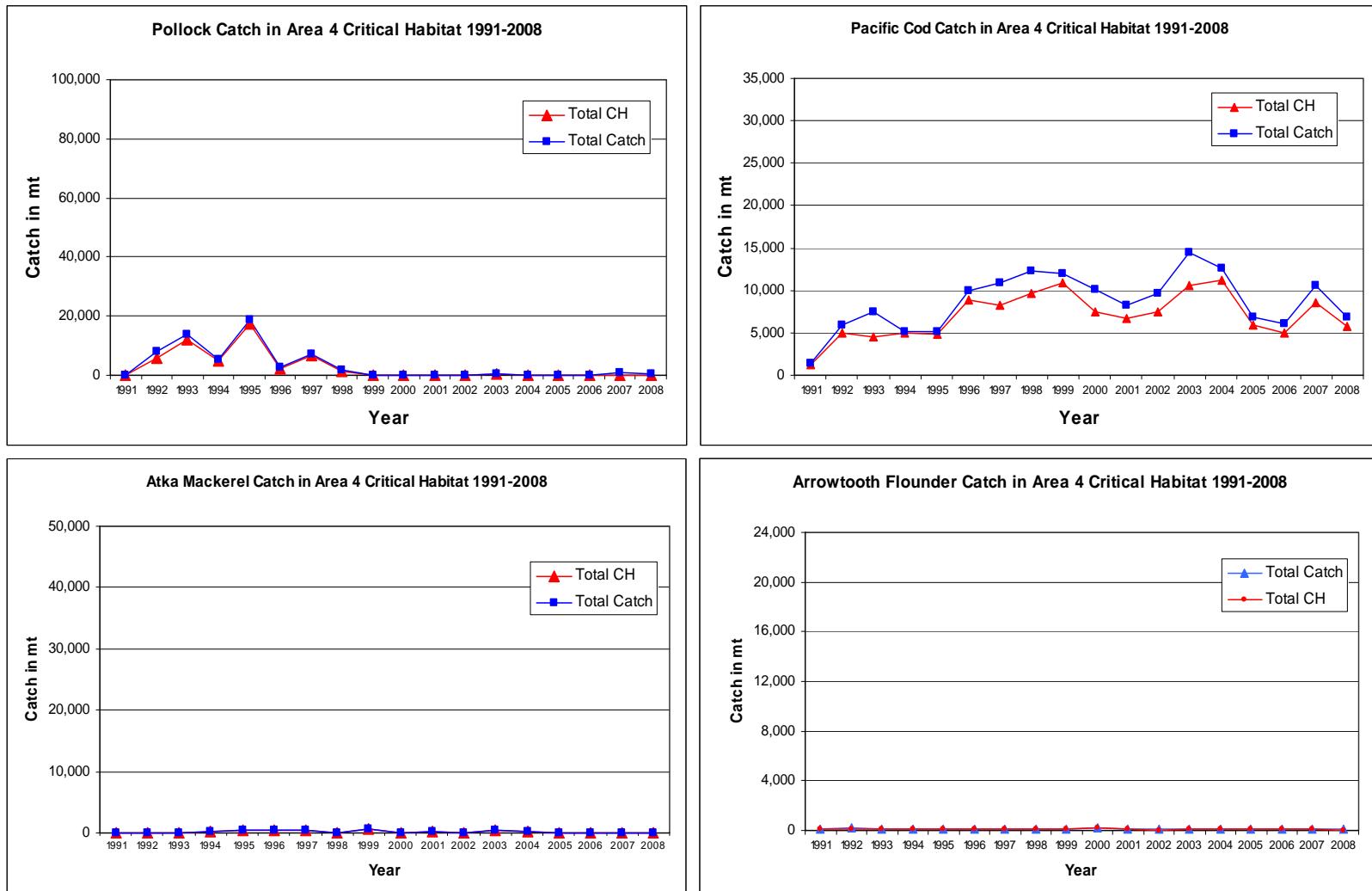


Figure IV-1.5. RCA 5: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

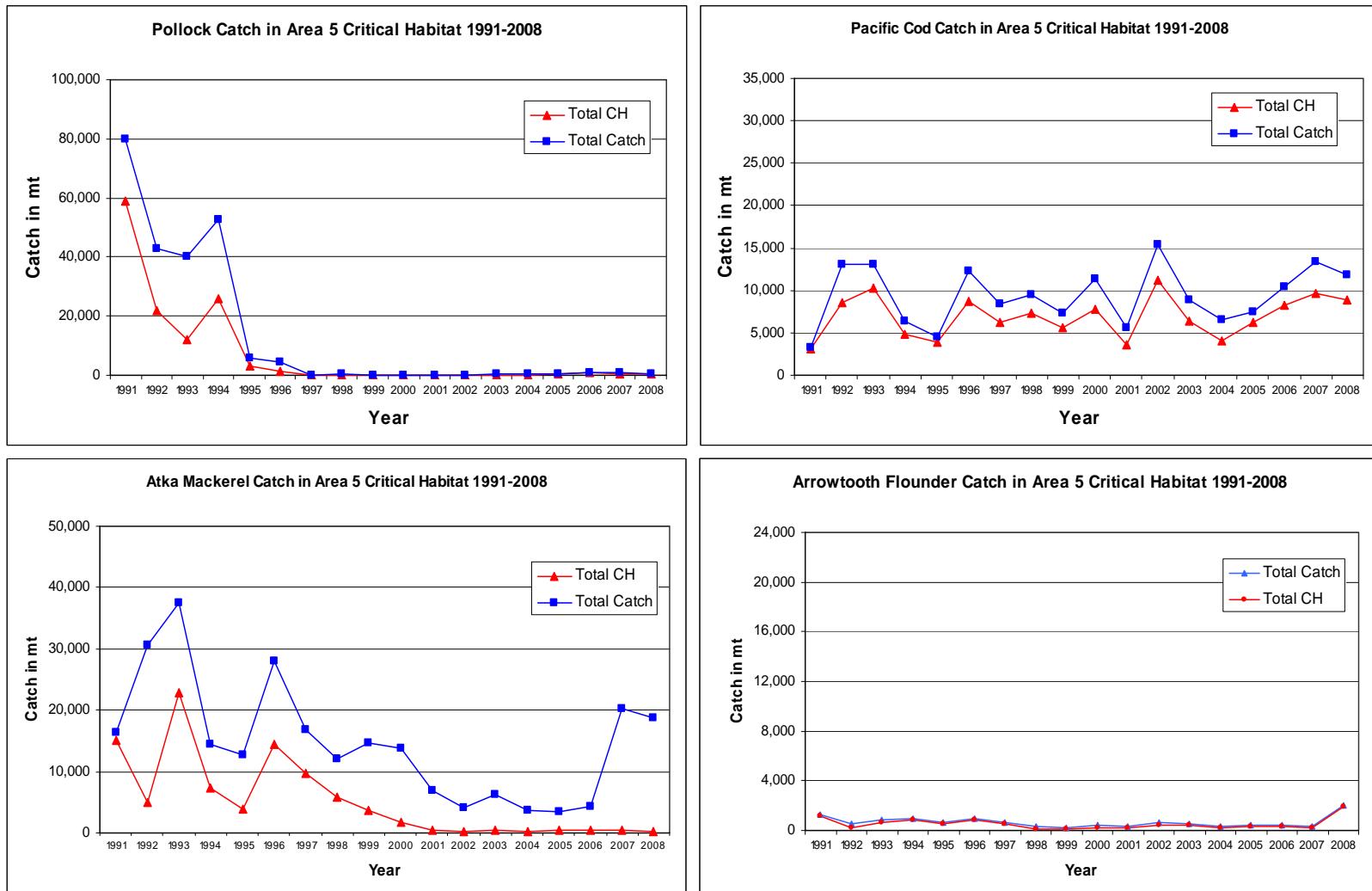


Figure IV-1.6. RCA - 6: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch differs by an order of magnitude for most figures in this series.

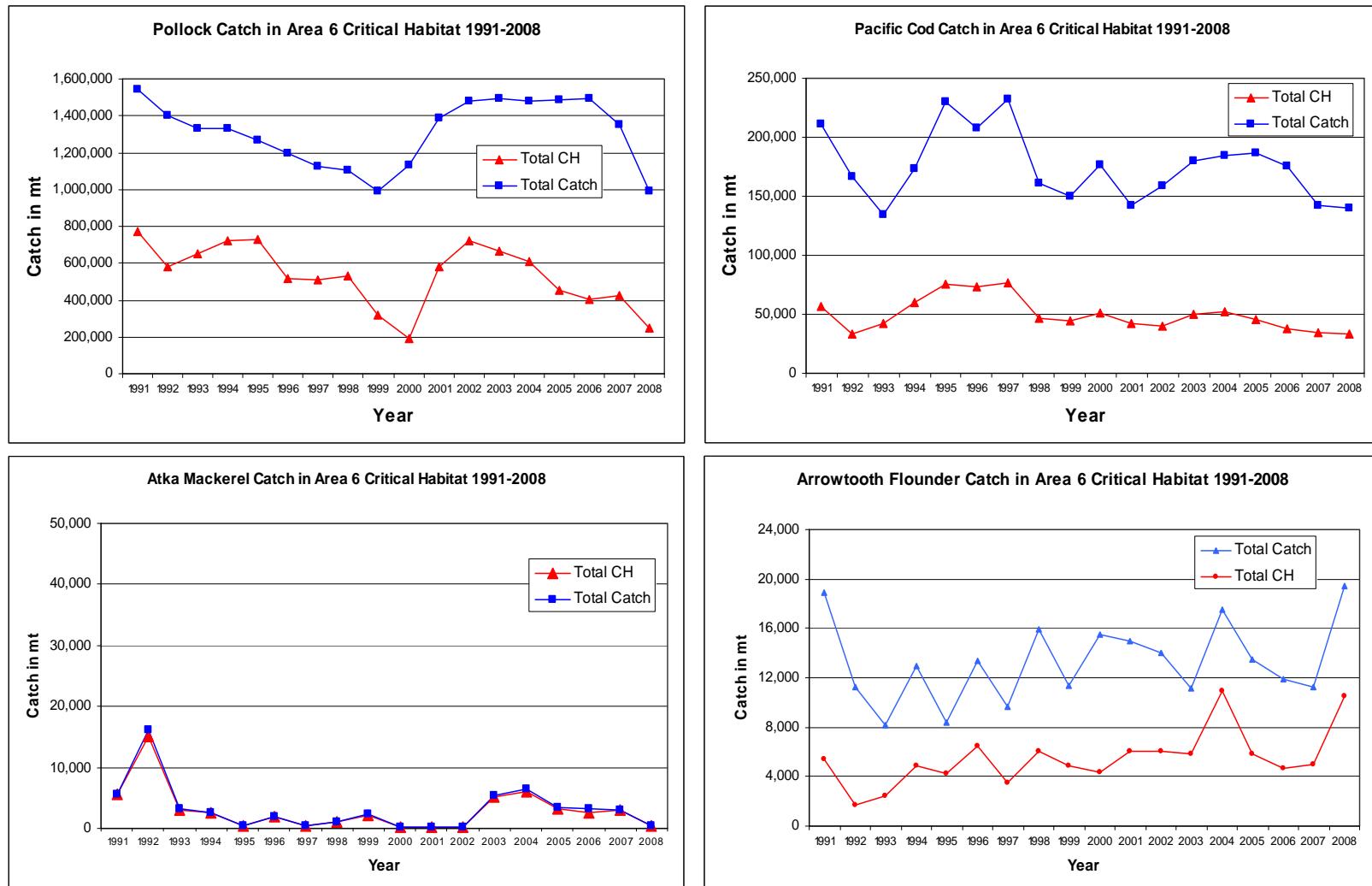


Figure IV-1.7. RCA 7: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

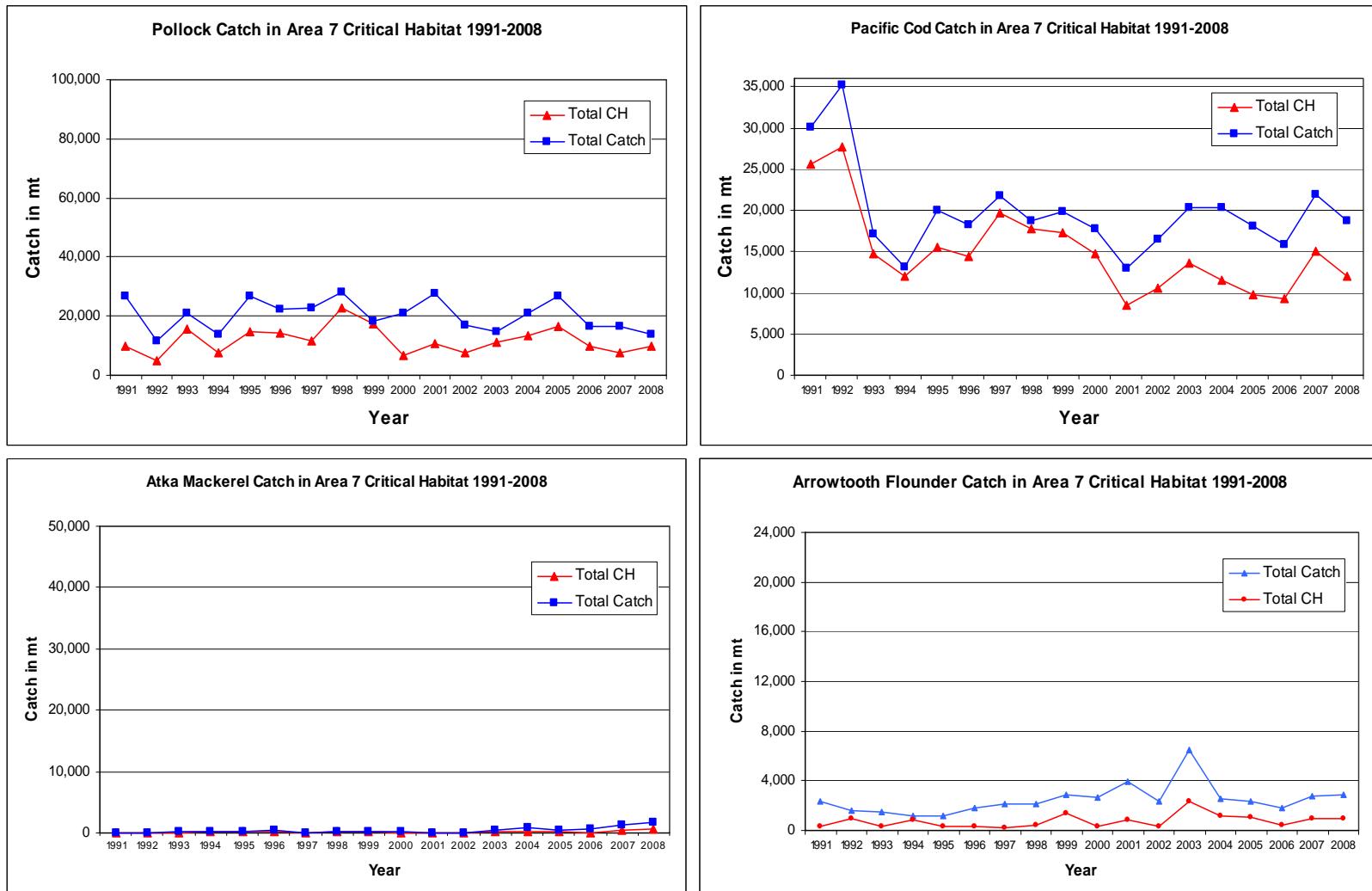


Figure IV-1.8. RCA 8: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

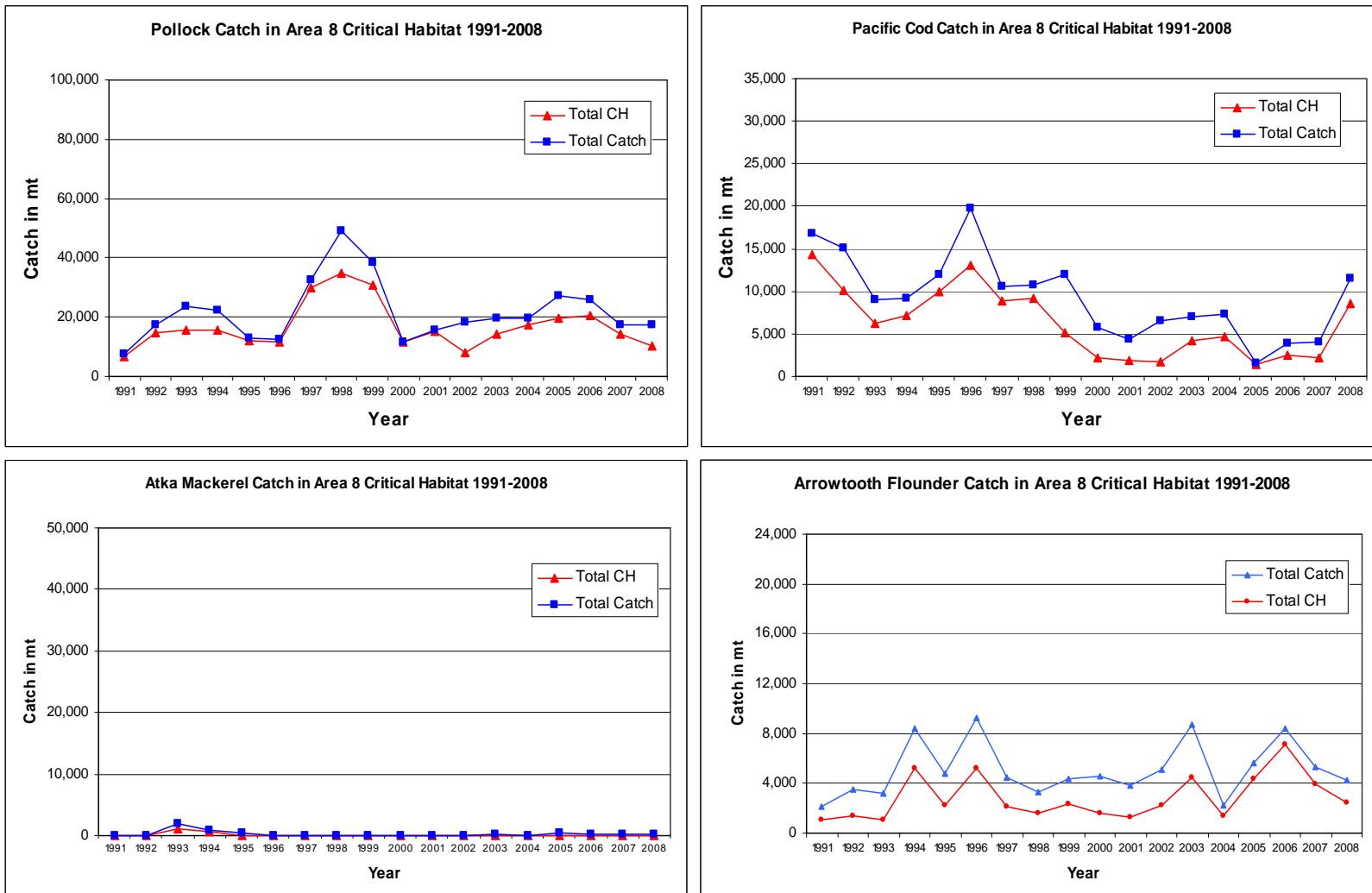


Figure IV-1.9. RCA 9: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

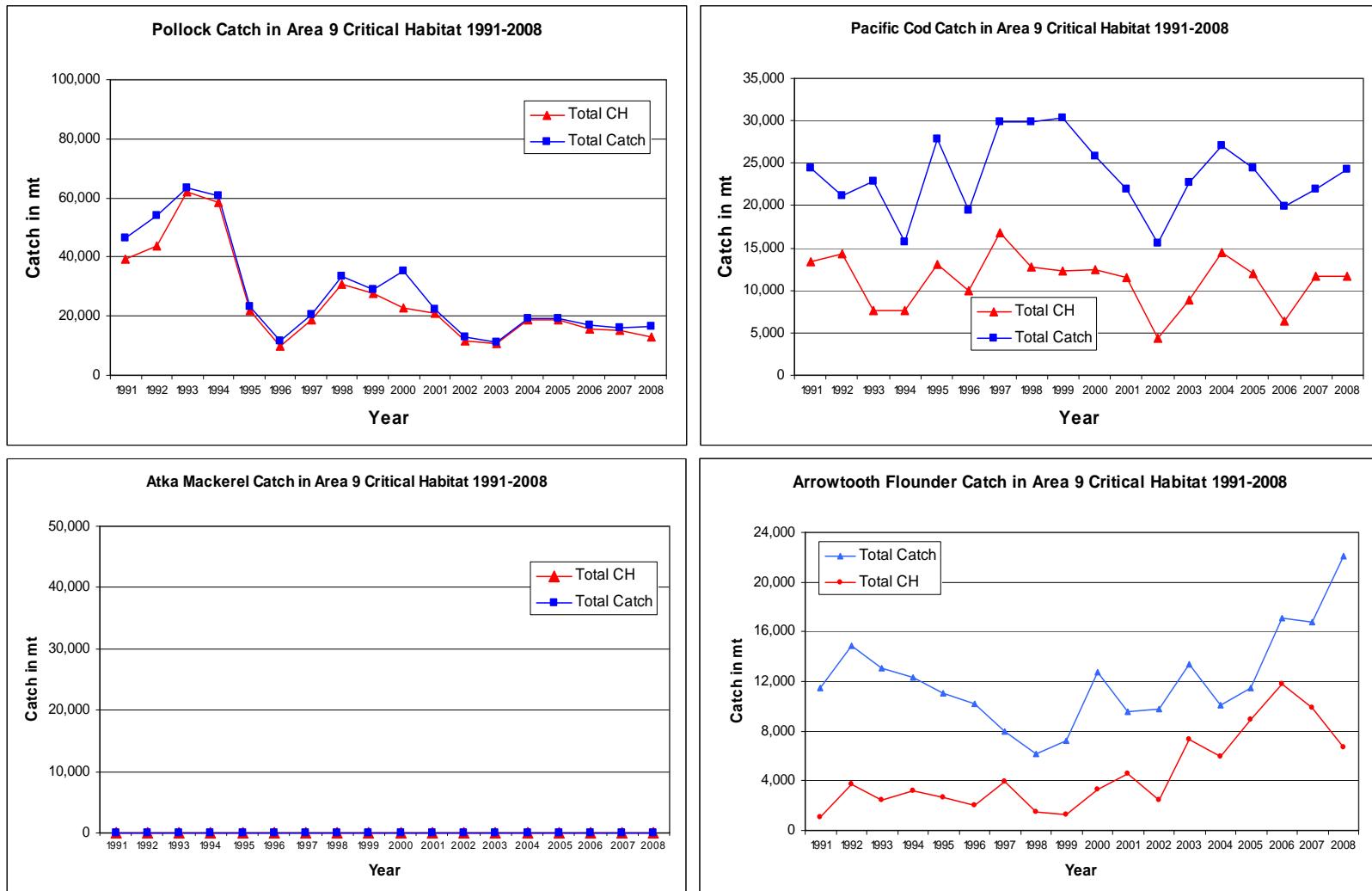


Figure IV-1.10. RCA 10: Catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder throughout each of the fishery analysis areas: total catch all four species within each area and that portion of the catch within Steller sea lion Critical Habitat for each area, 1991-2008. Note: Y-axis for catch is held consistent by species for most figures in this series.

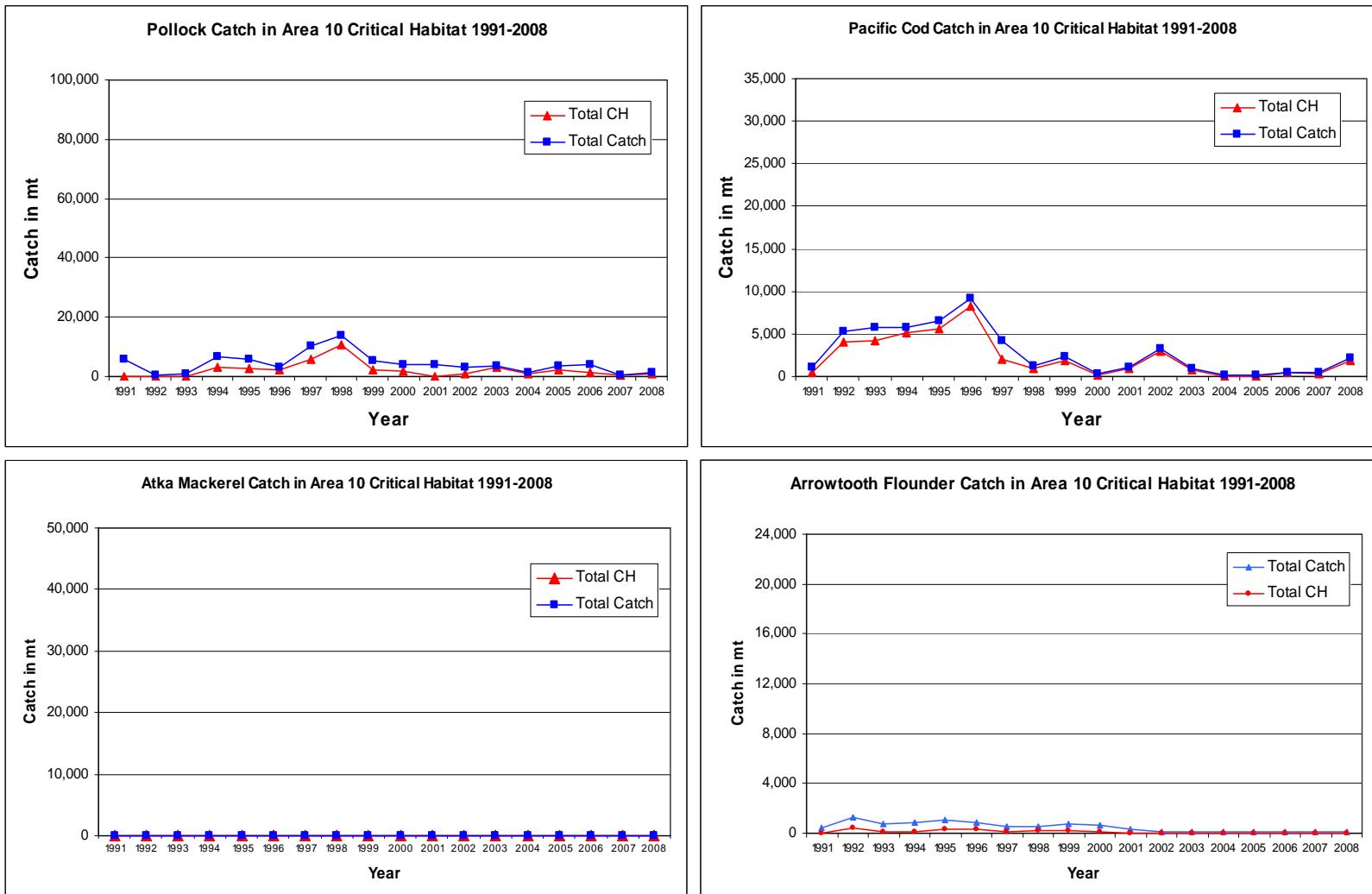


Figure IV-2.1. RCA 1: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

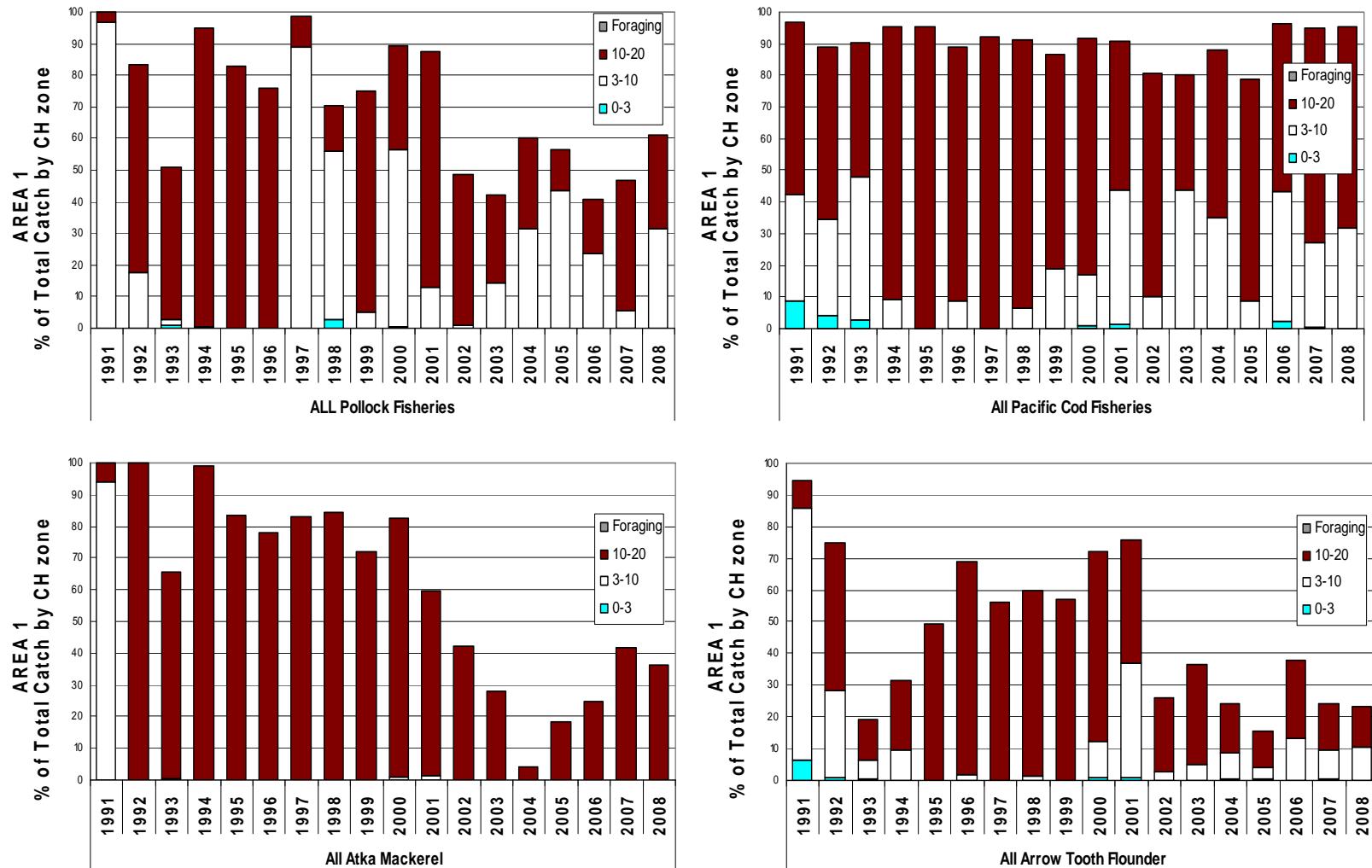


Figure IV-2.2. RCA 2: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

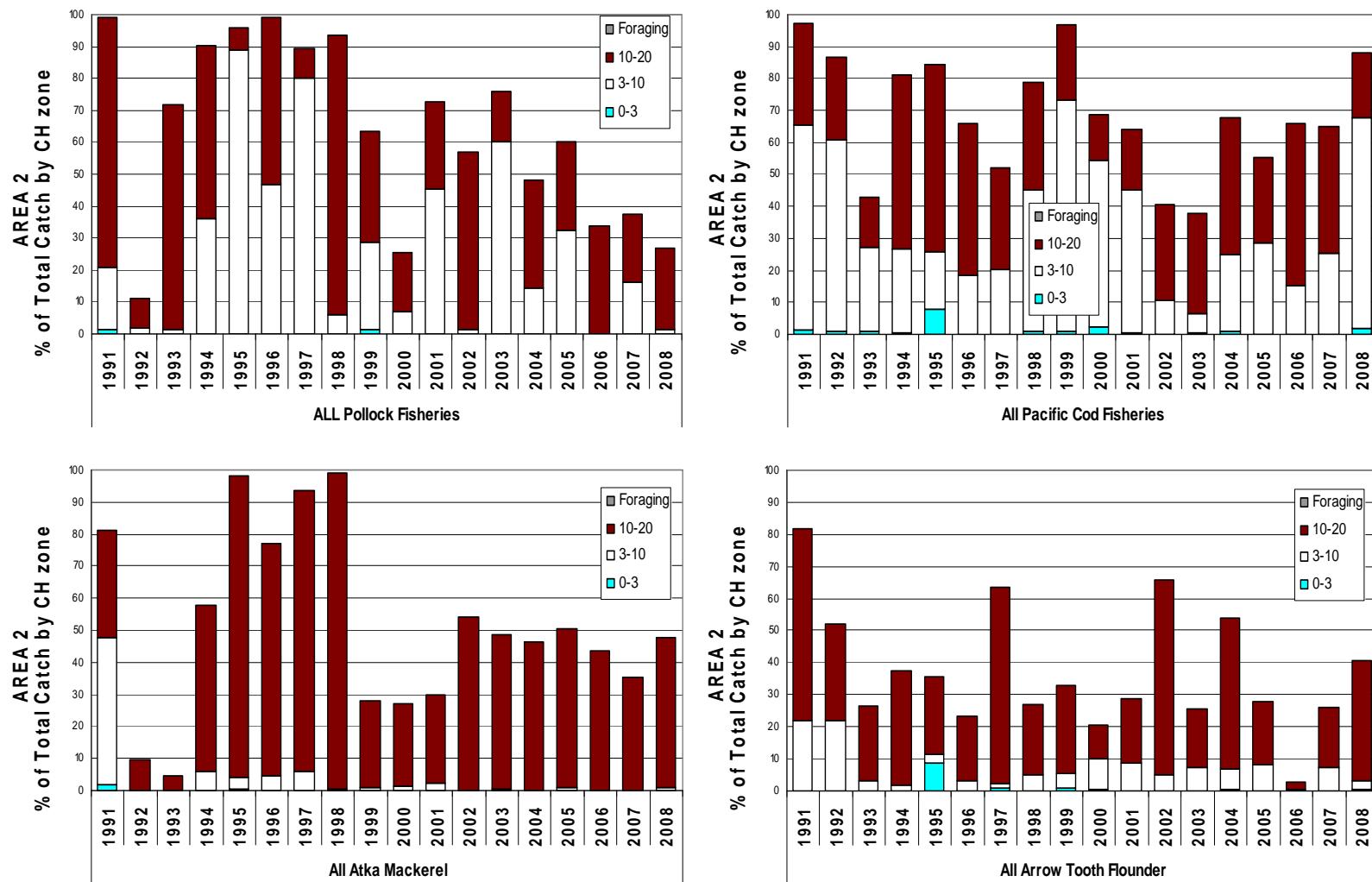


Figure IV-2.3. RCA 3: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

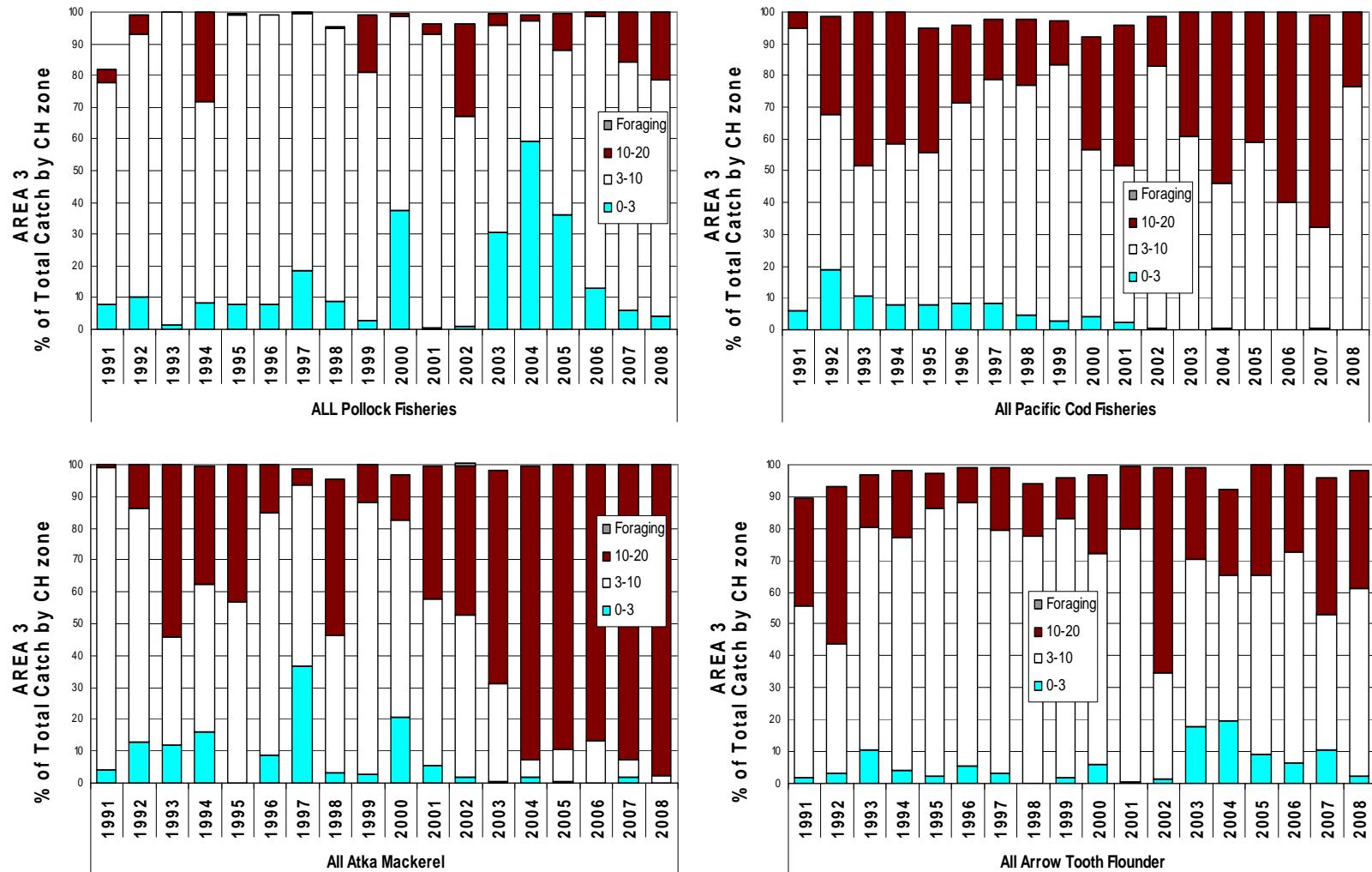


Figure IV-2.4. RCA 4: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

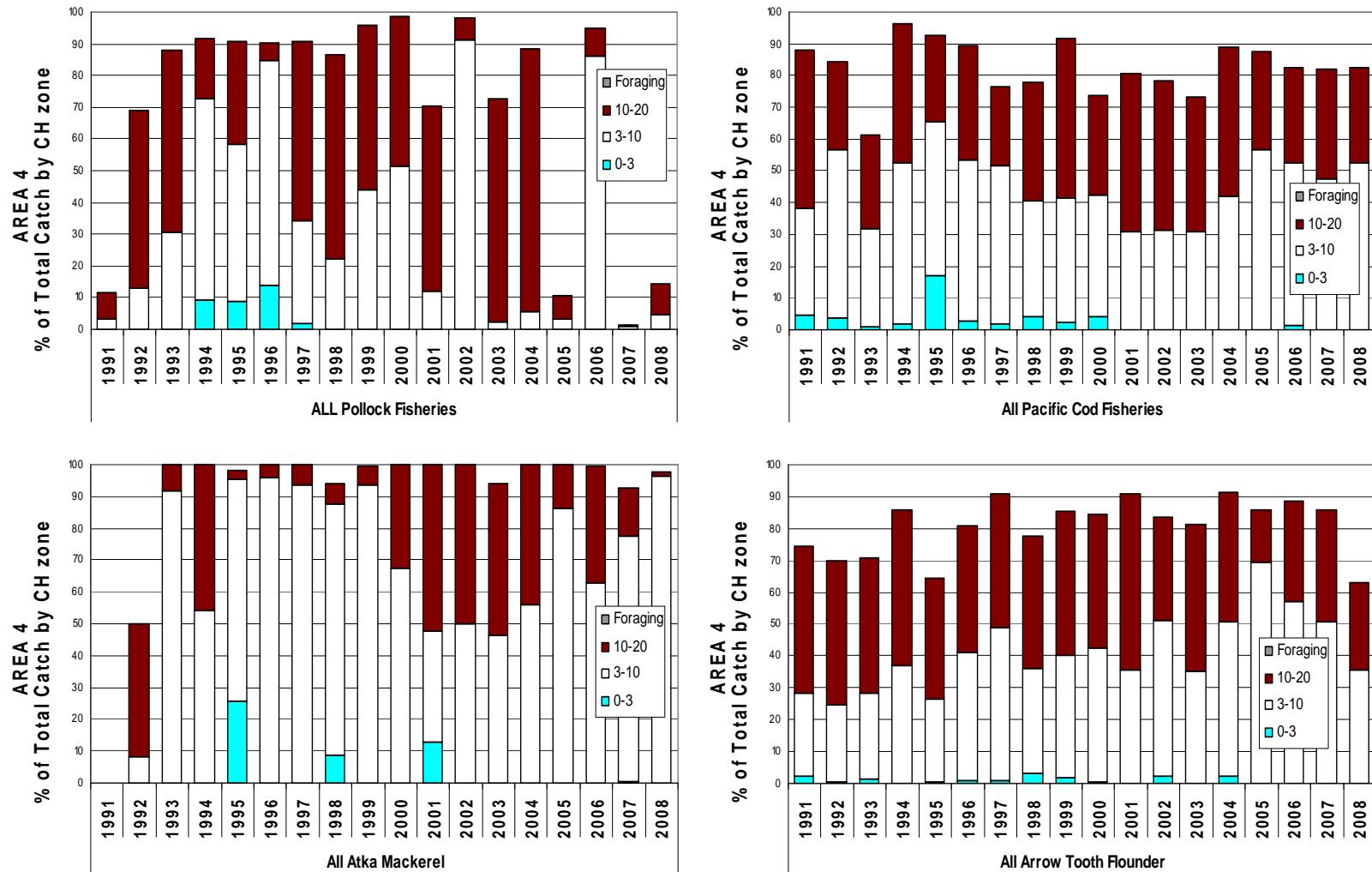


Figure IV-2.5. RCA 5: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

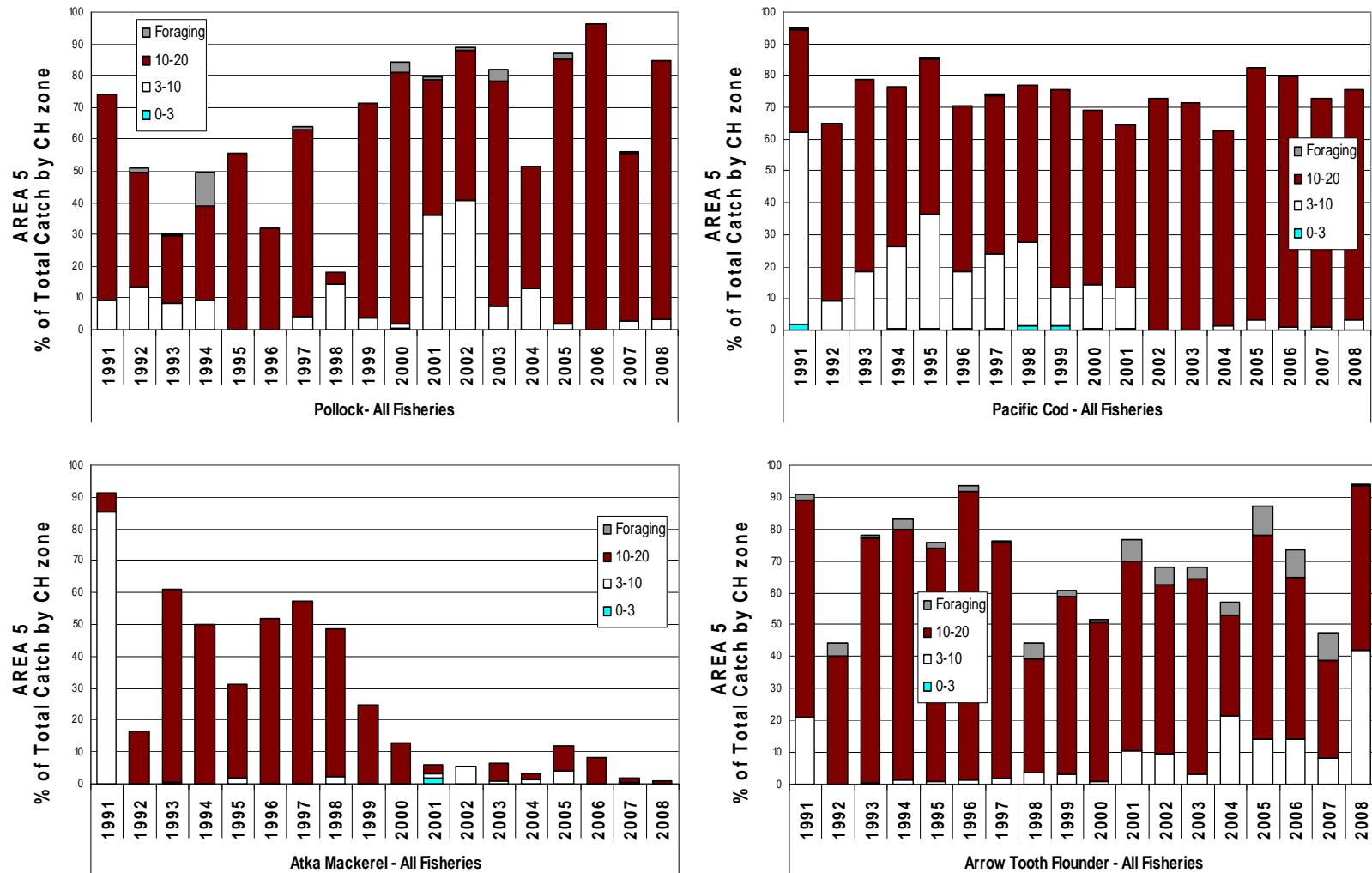


Figure IV-2.6. RCA 6: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

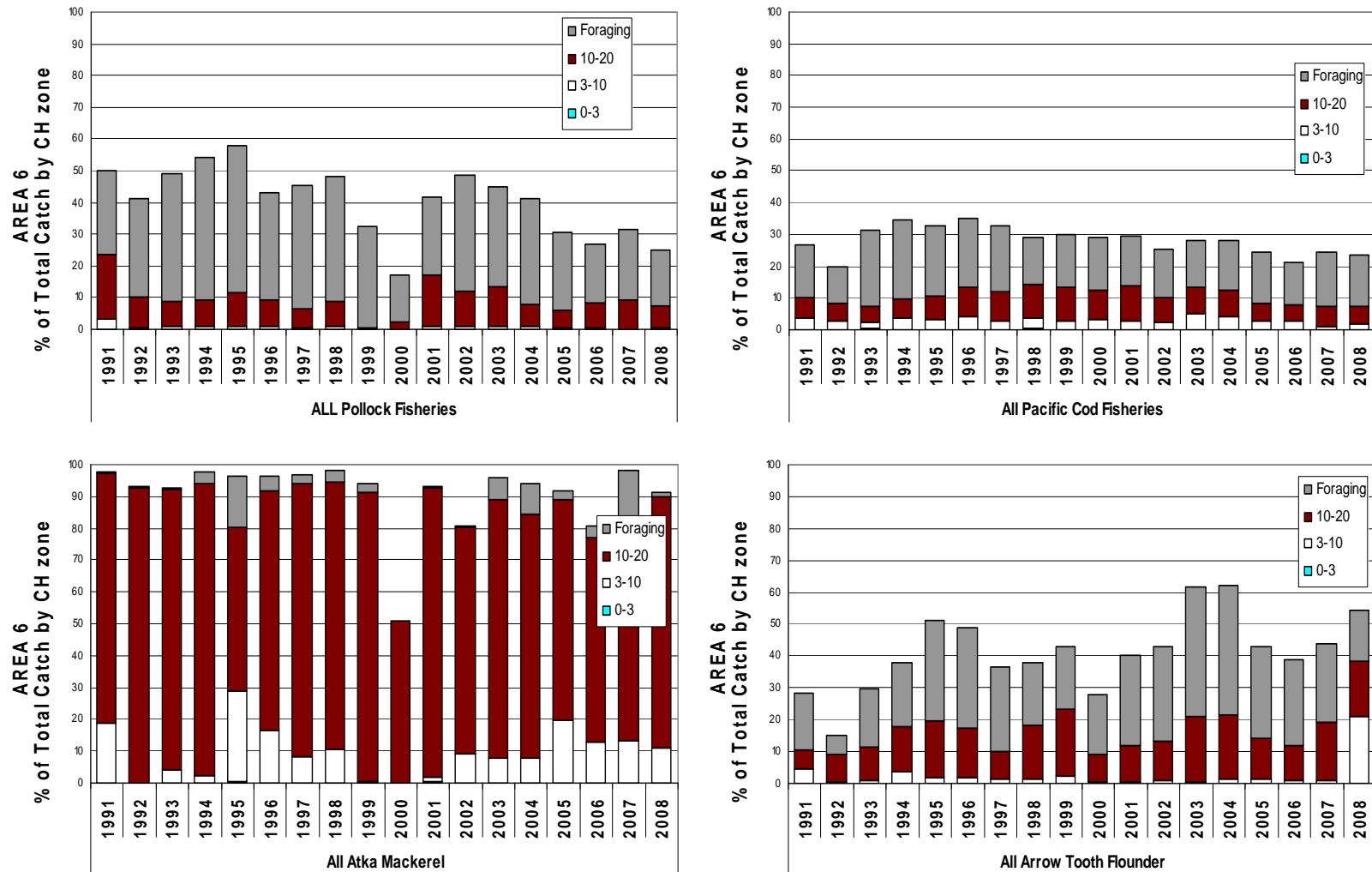


Figure IV-2.7. RCA 7: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

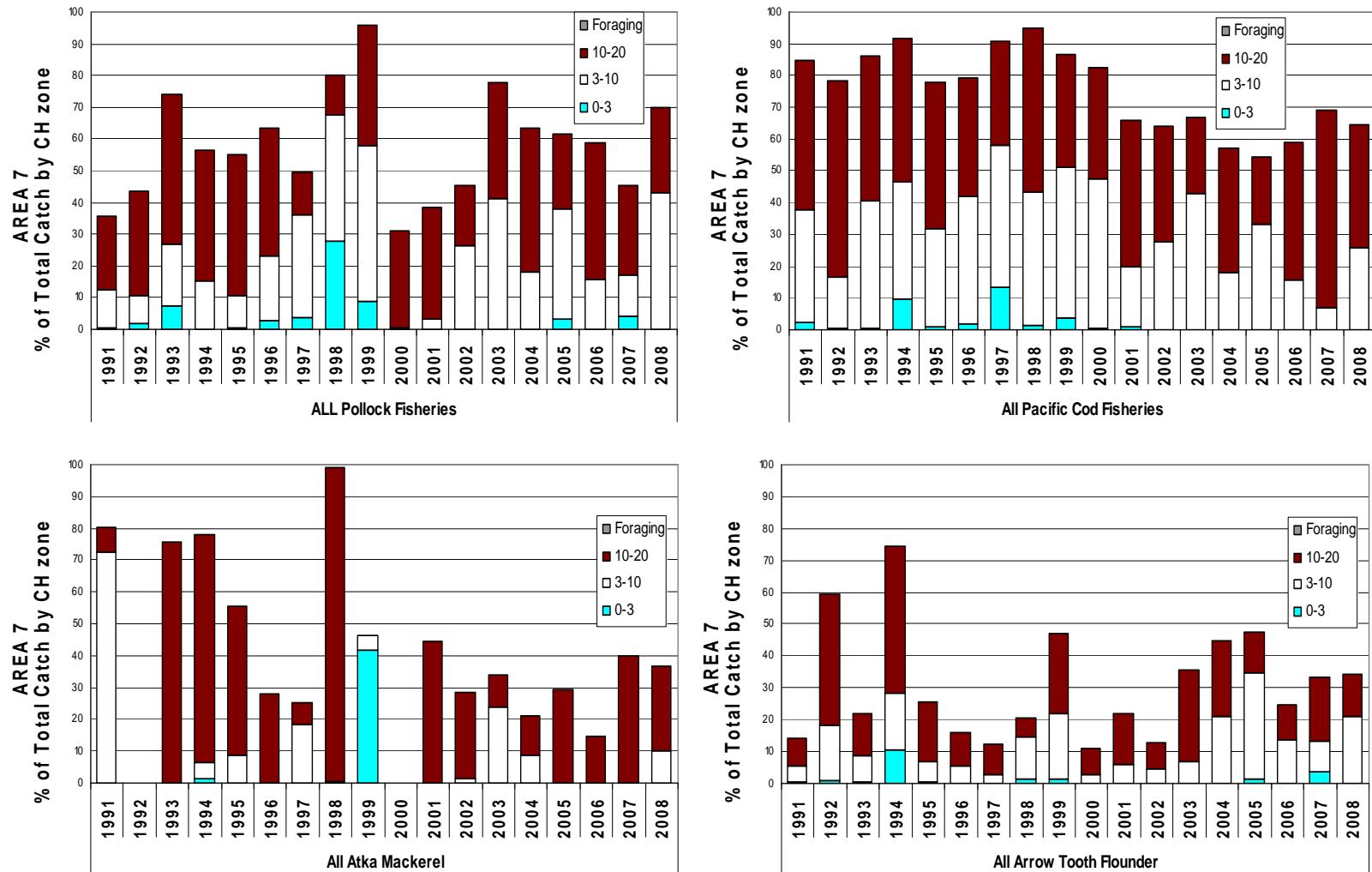


Figure IV-2.8. RCA 8: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

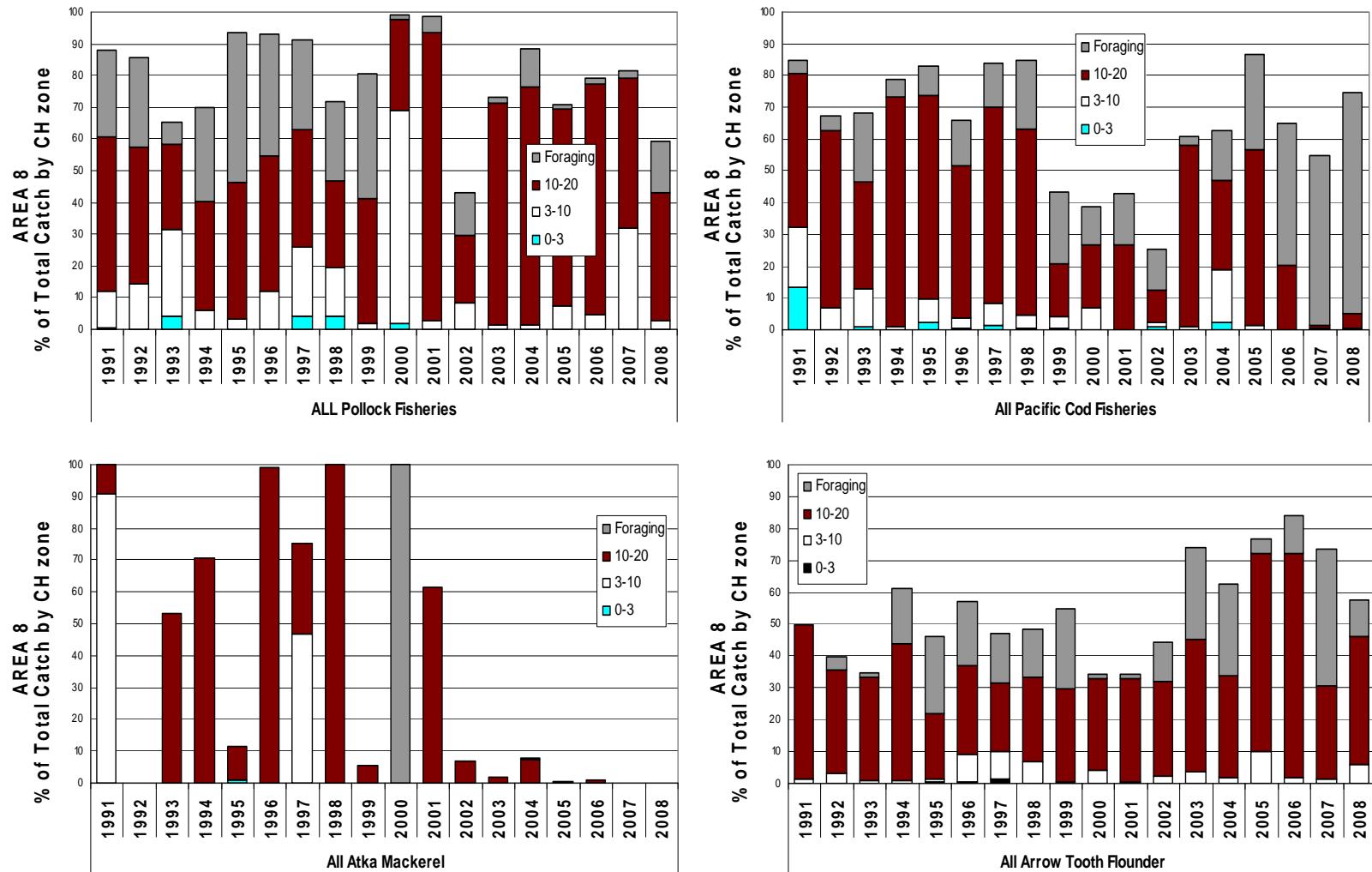


Figure IV-2.9. RCA 9: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

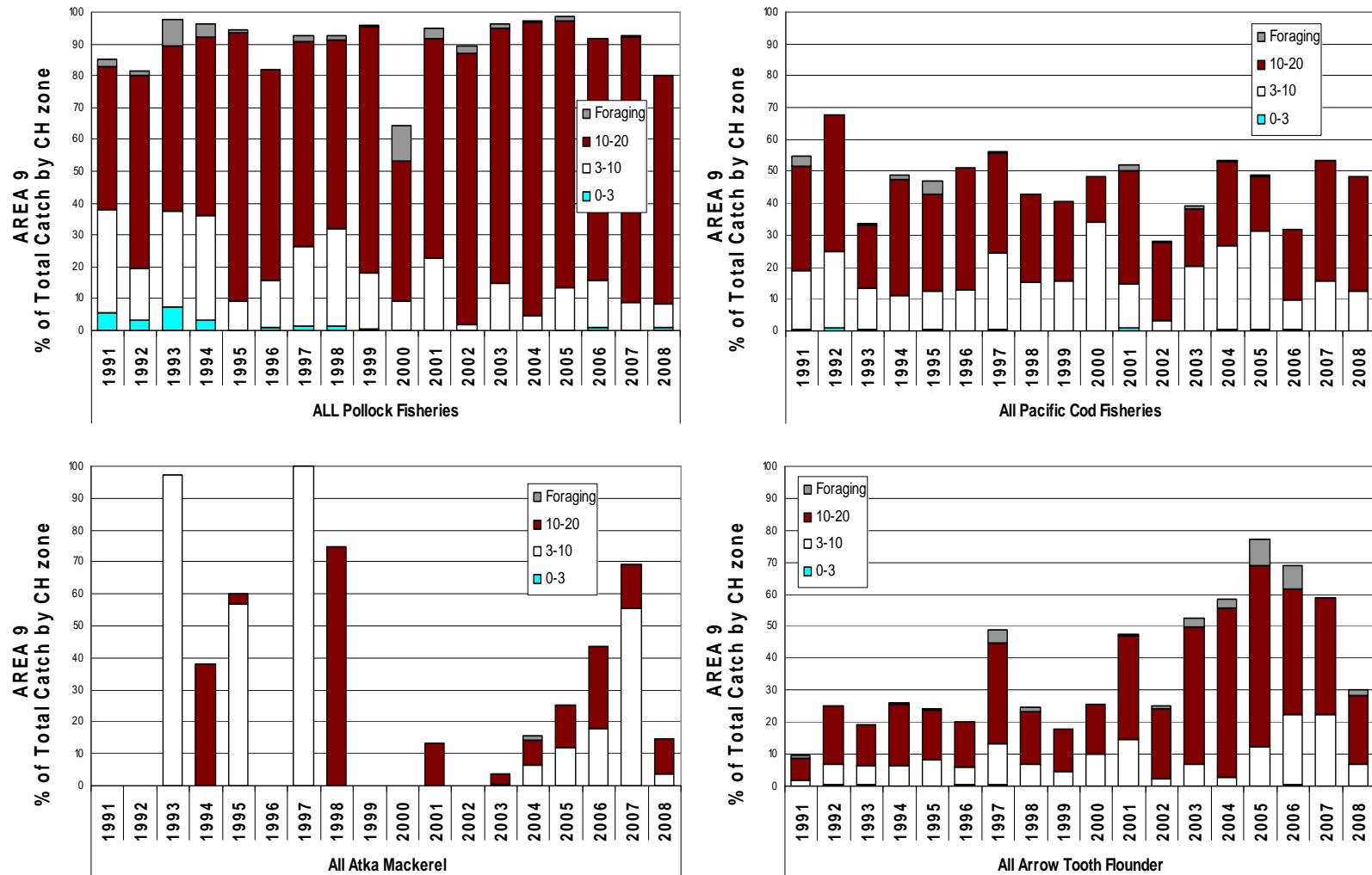


Figure IV-2.10. RCA 10: Proportion of the catch of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder in various zones of Steller Sea Lion Critical Habitat throughout each of the fishery analysis areas; 1991-2008.

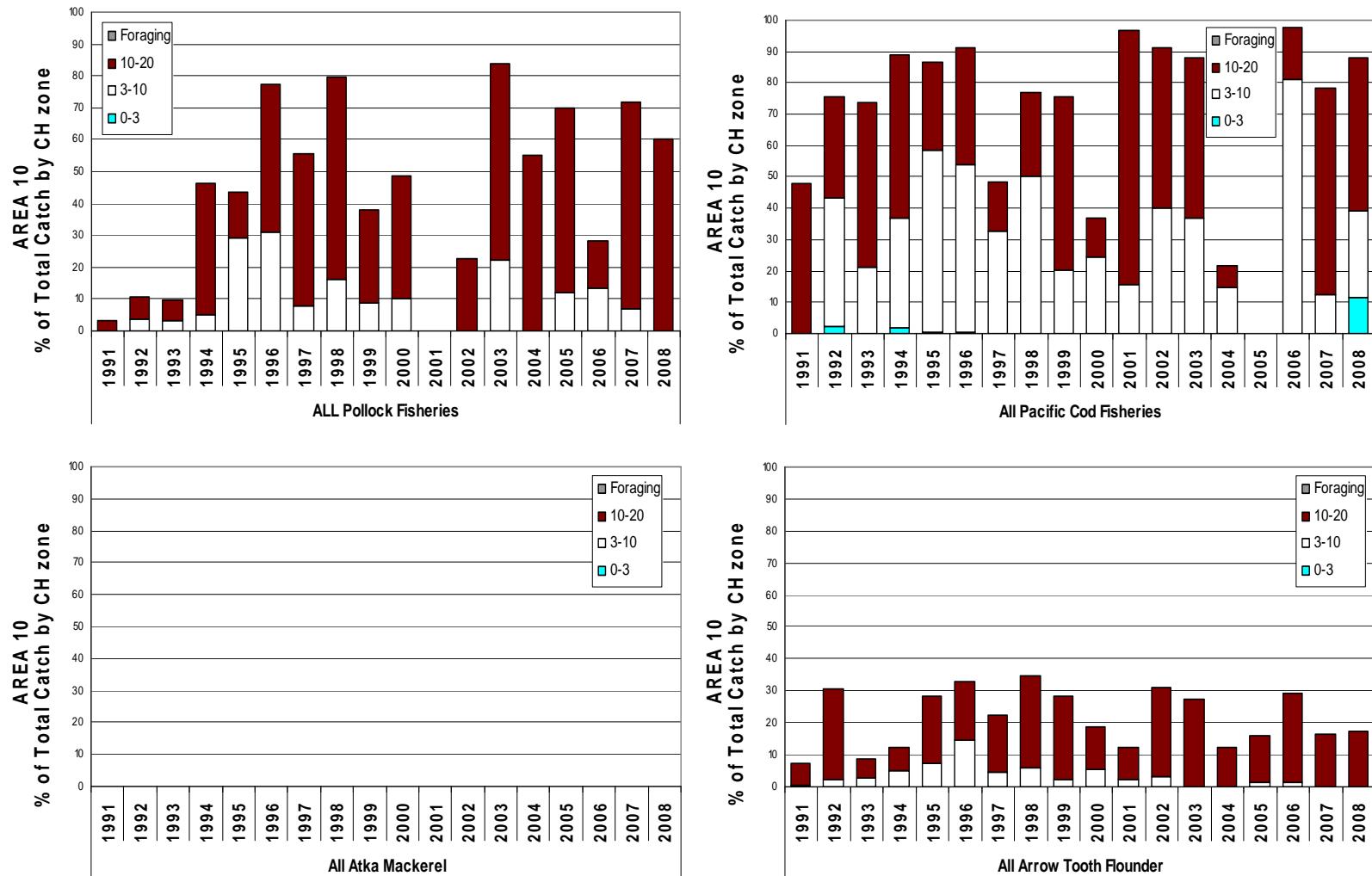


Figure IV-3.1. RCA 1: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

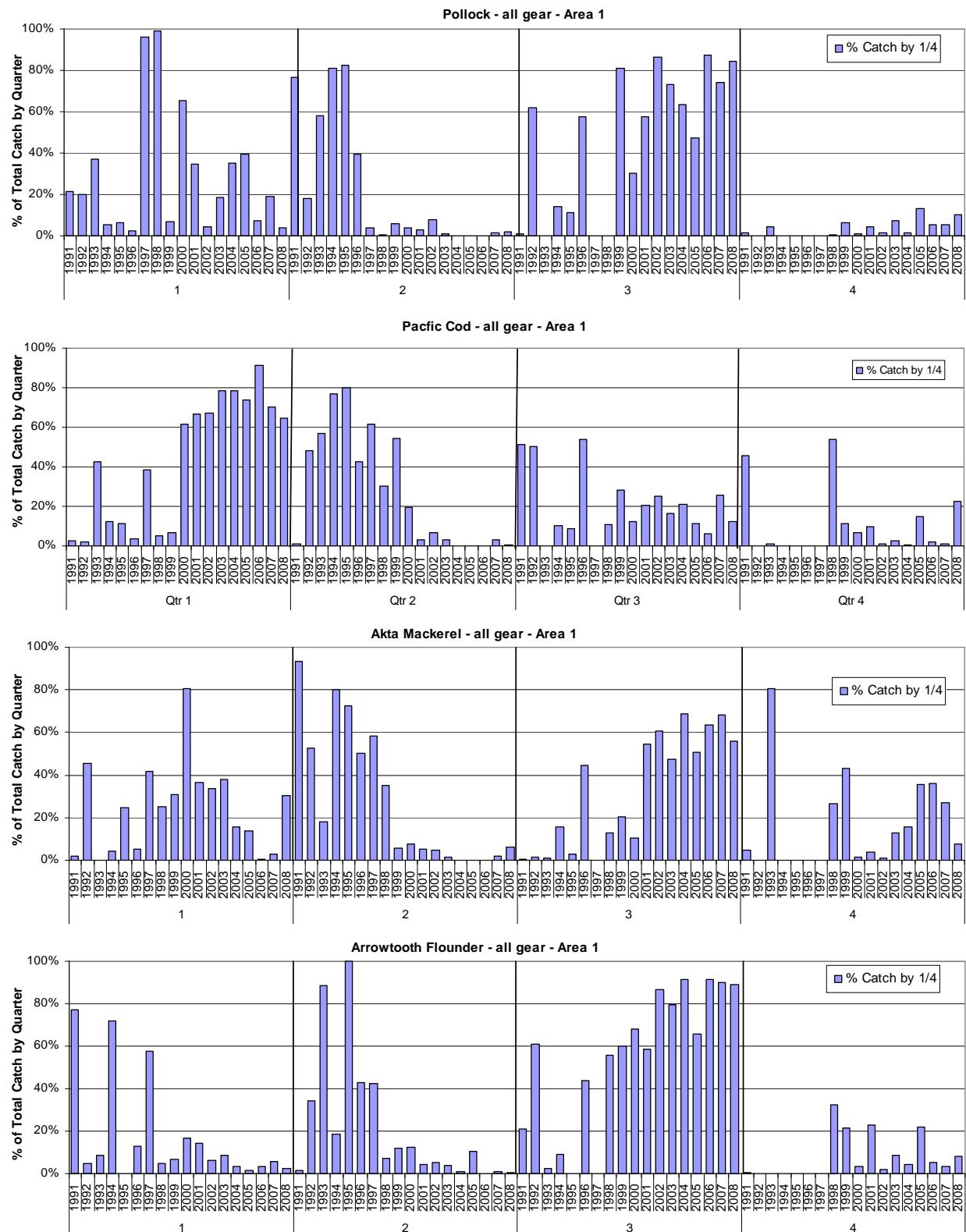


Figure IV-3.2. RCA 2: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

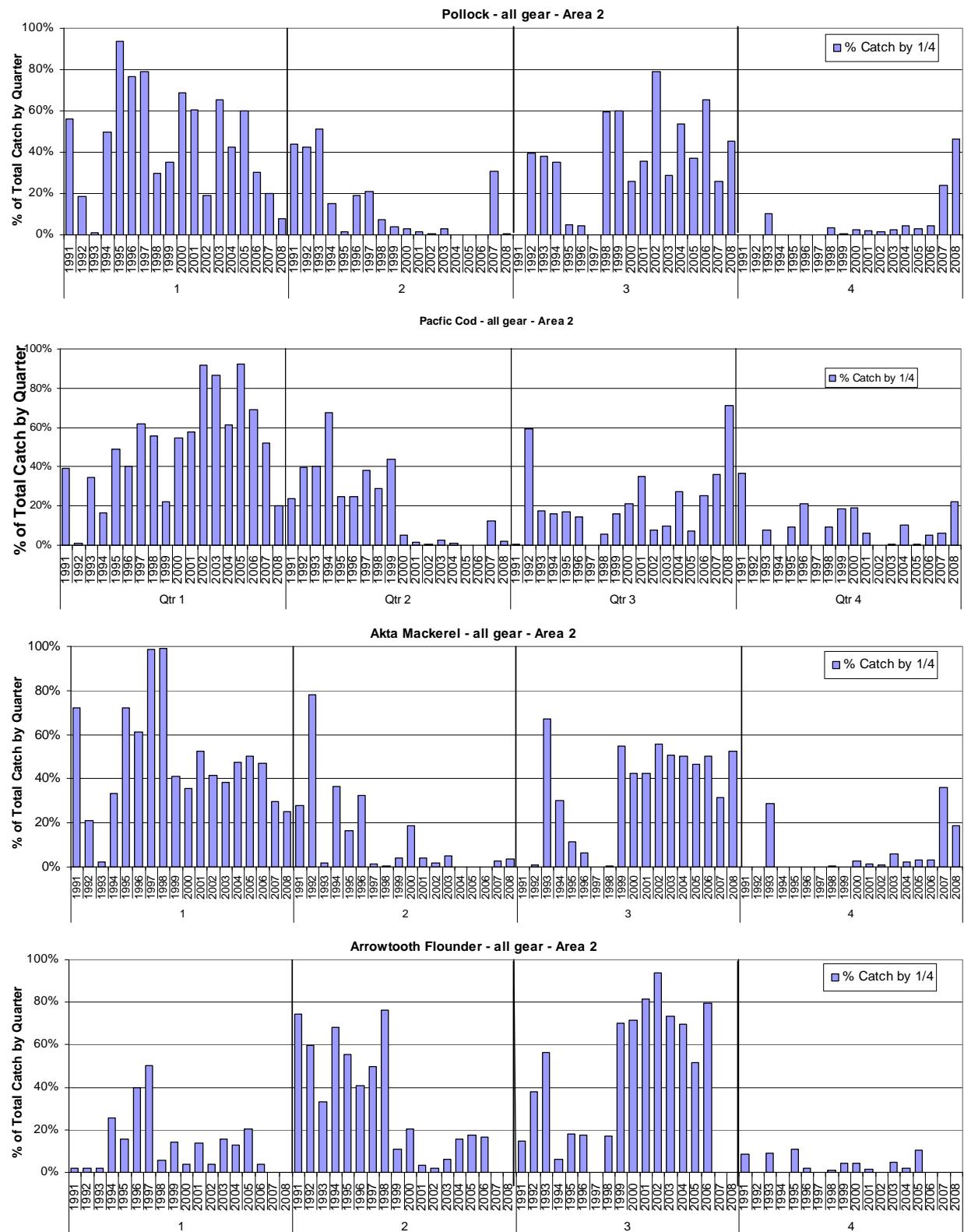


Figure IV-3.3. RCA 3: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

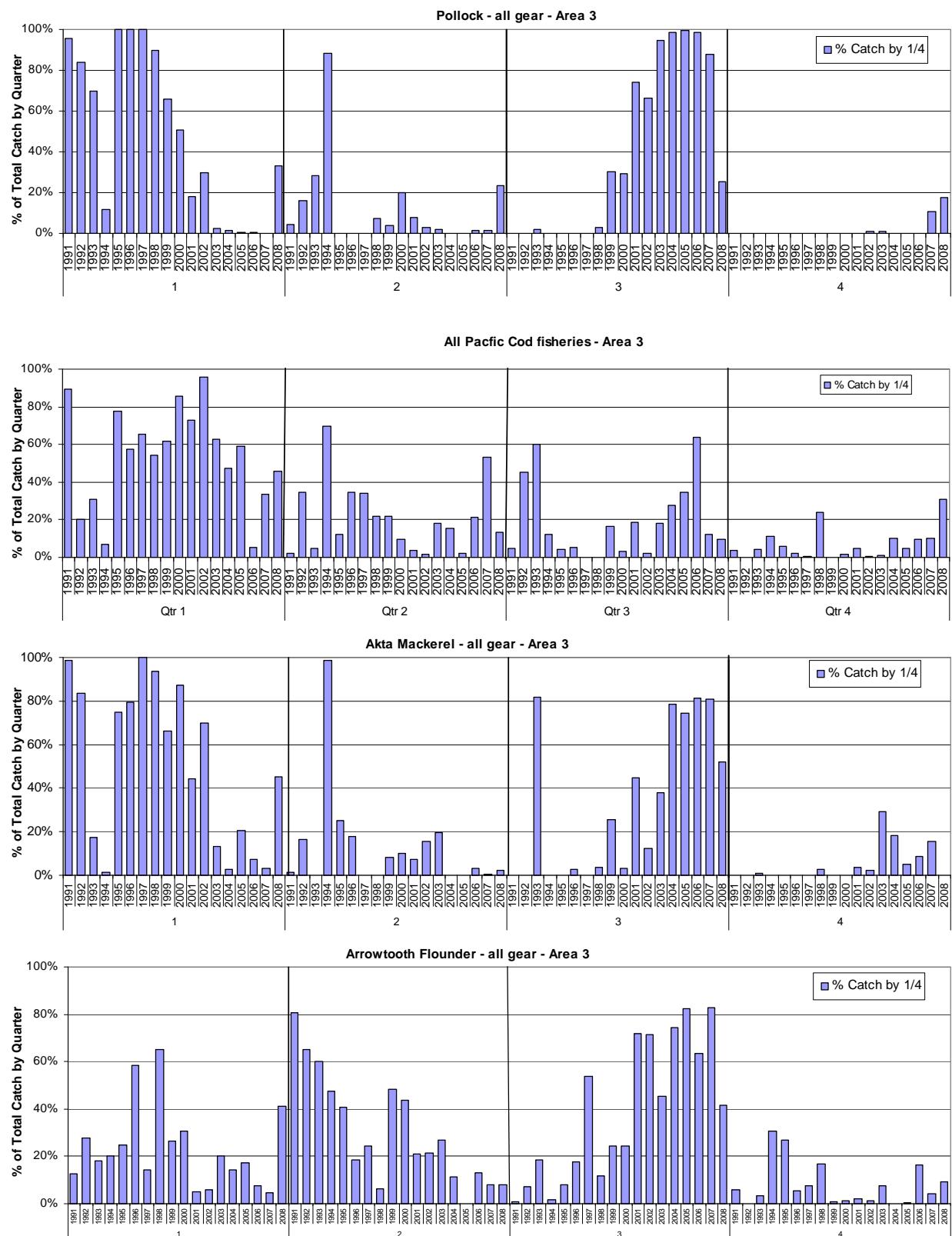


Figure IV-3.4. RCA 4: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

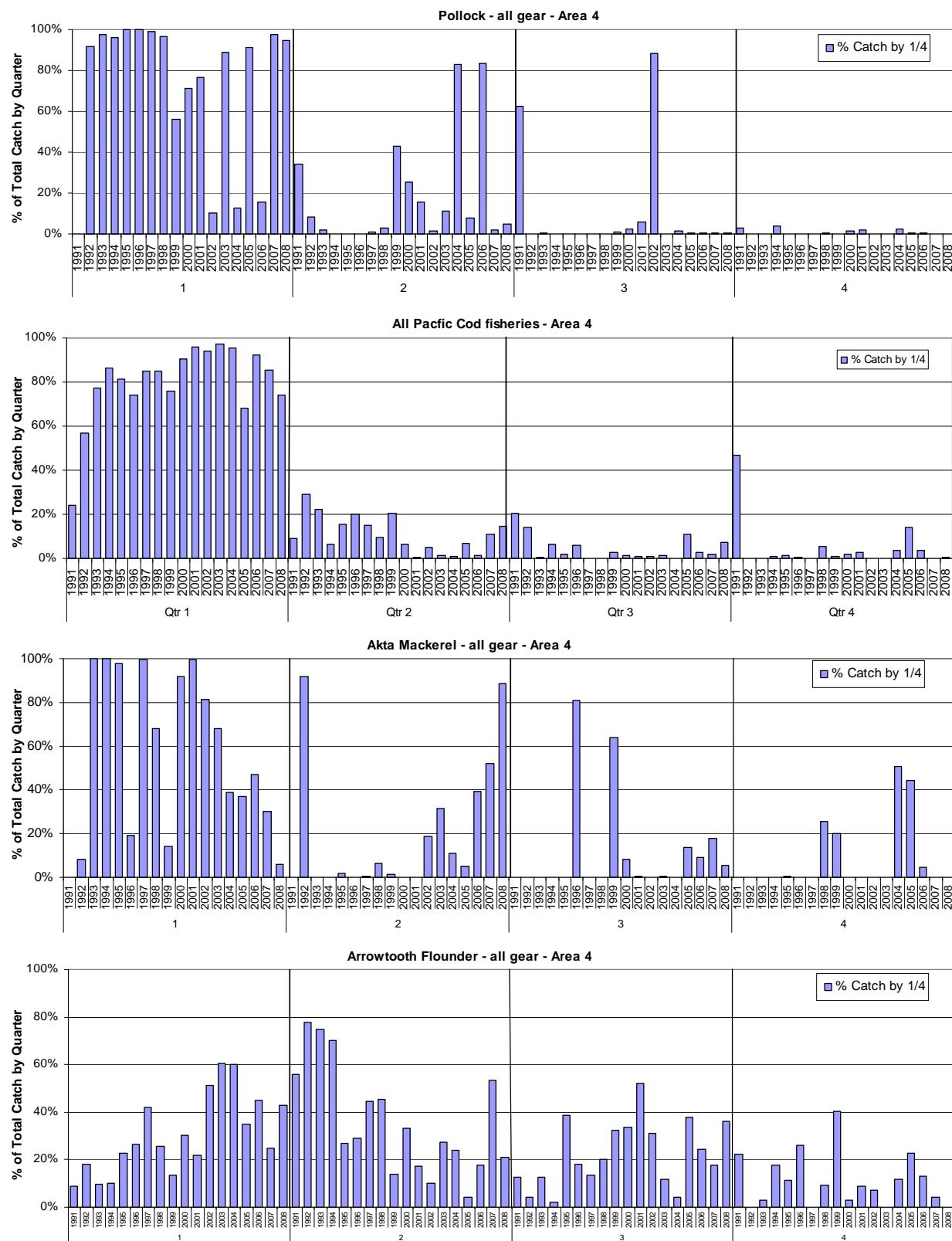


Figure IV-3.5. RCA 5: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

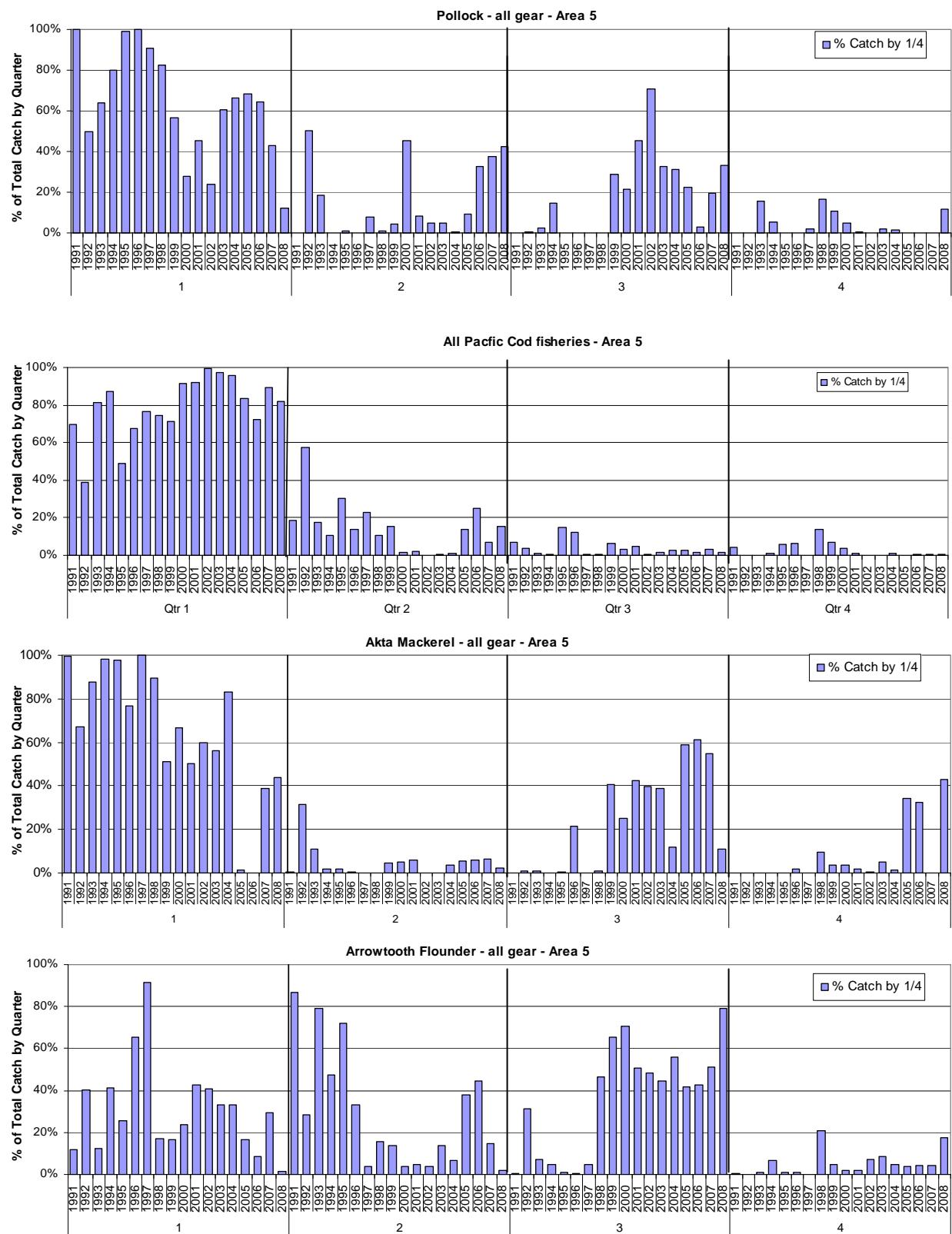


Figure IV-3.6. RCA 6: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 91-2008.

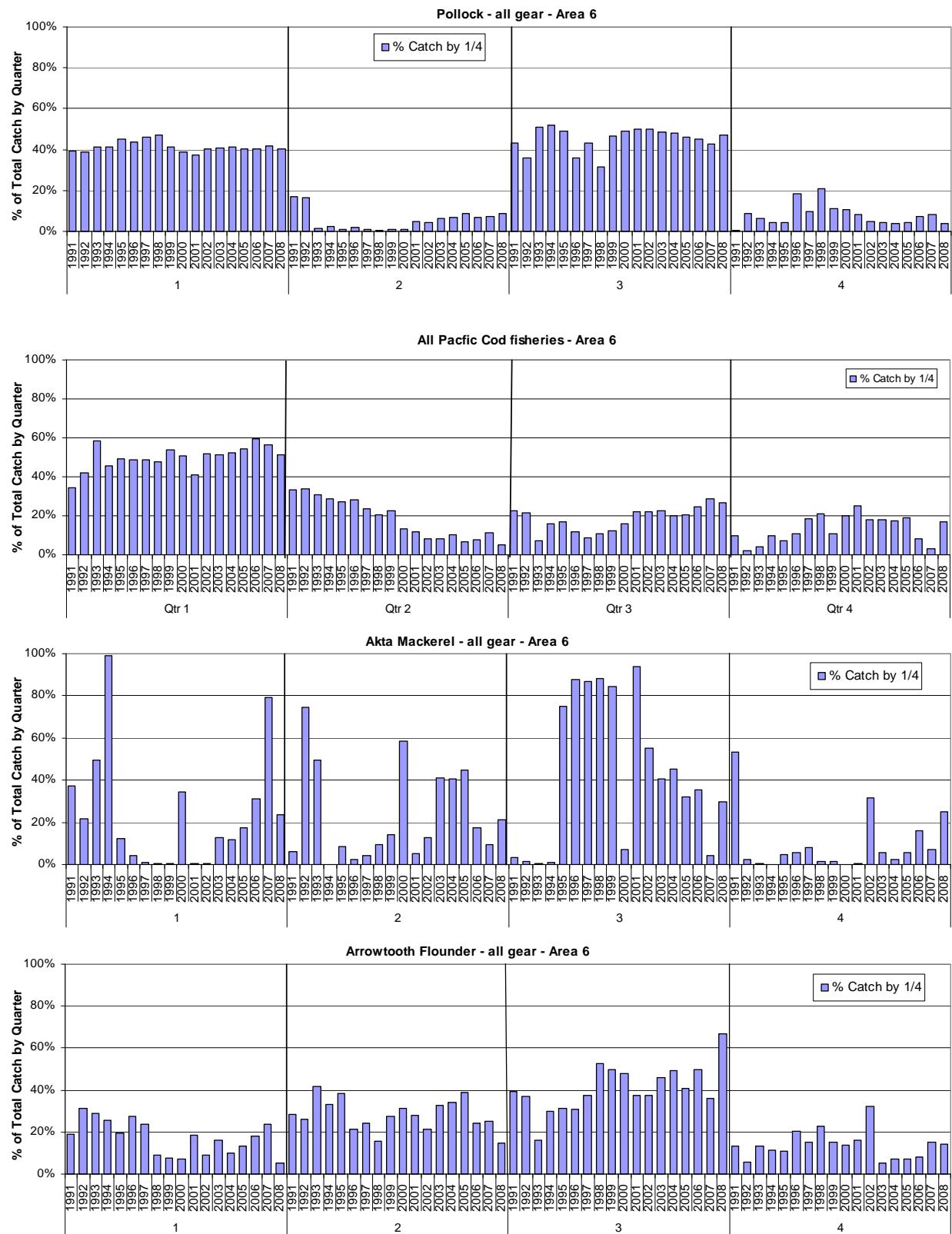


Figure IV-3.7. RCA 7: Proportion of the catch taken by quarter of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder from within each rookery cluster analysis area: 1991-2008.

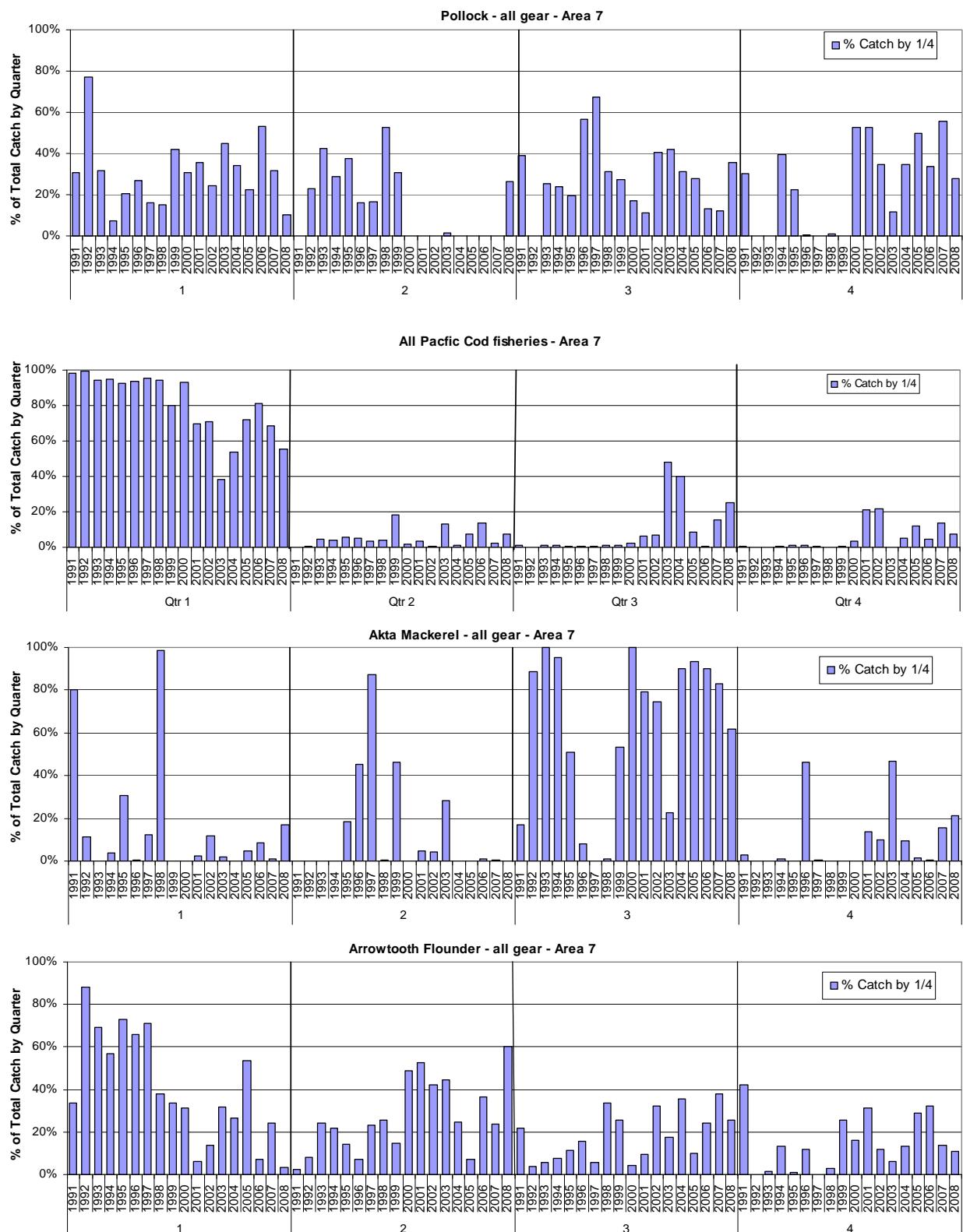


Figure IV-3.8. RCA 8: Proportion of the catch taken by quarter of pollock, Pacific cod, and Atka mackerel from within each rookery cluster analysis area: 1991-2008.

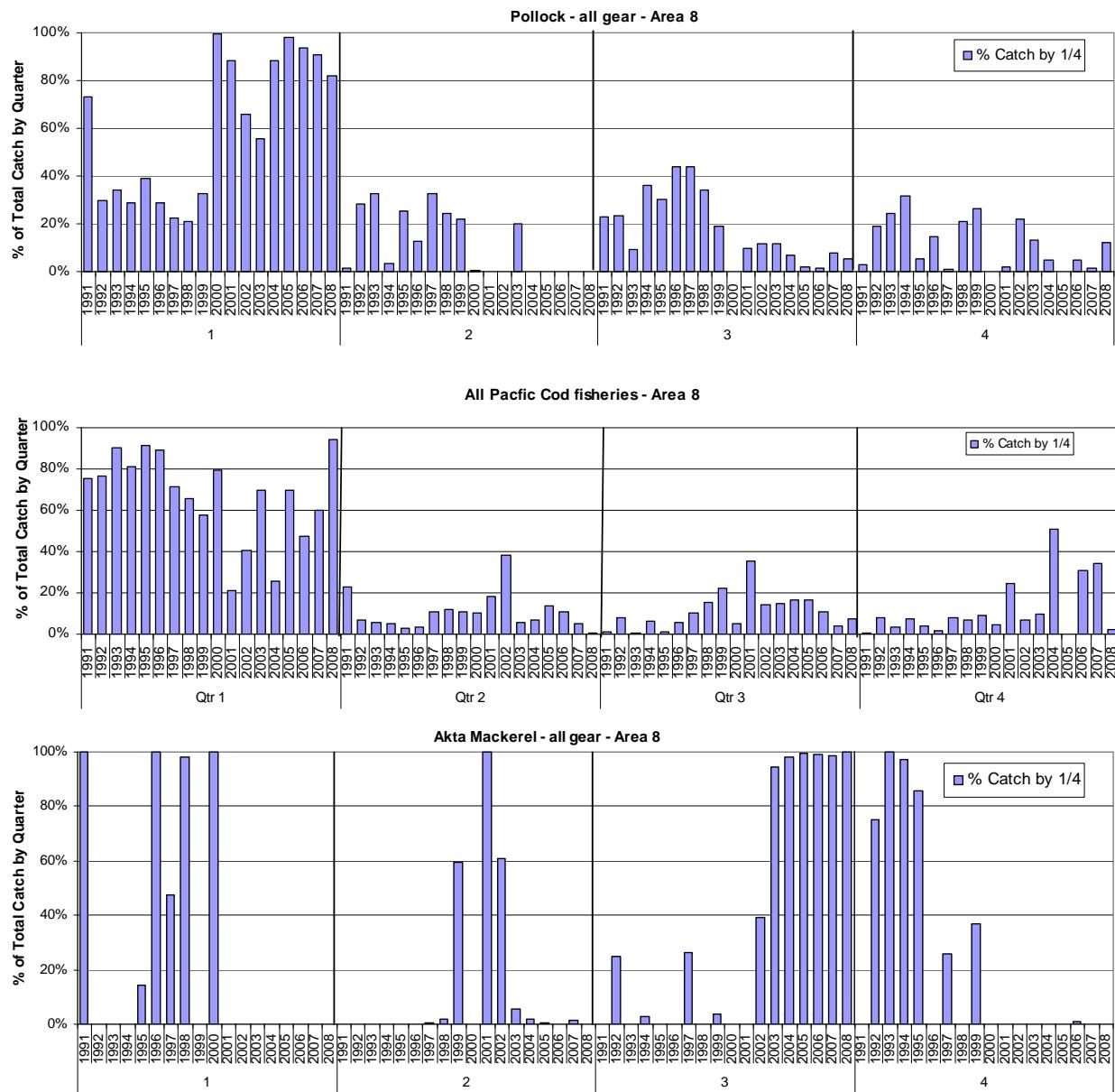


Figure IV-3.9. RCA 9: Proportion of the catch taken by quarter of pollock, Pacific cod, and Atka mackerel from within each rookery cluster analysis area: 1991-2008.

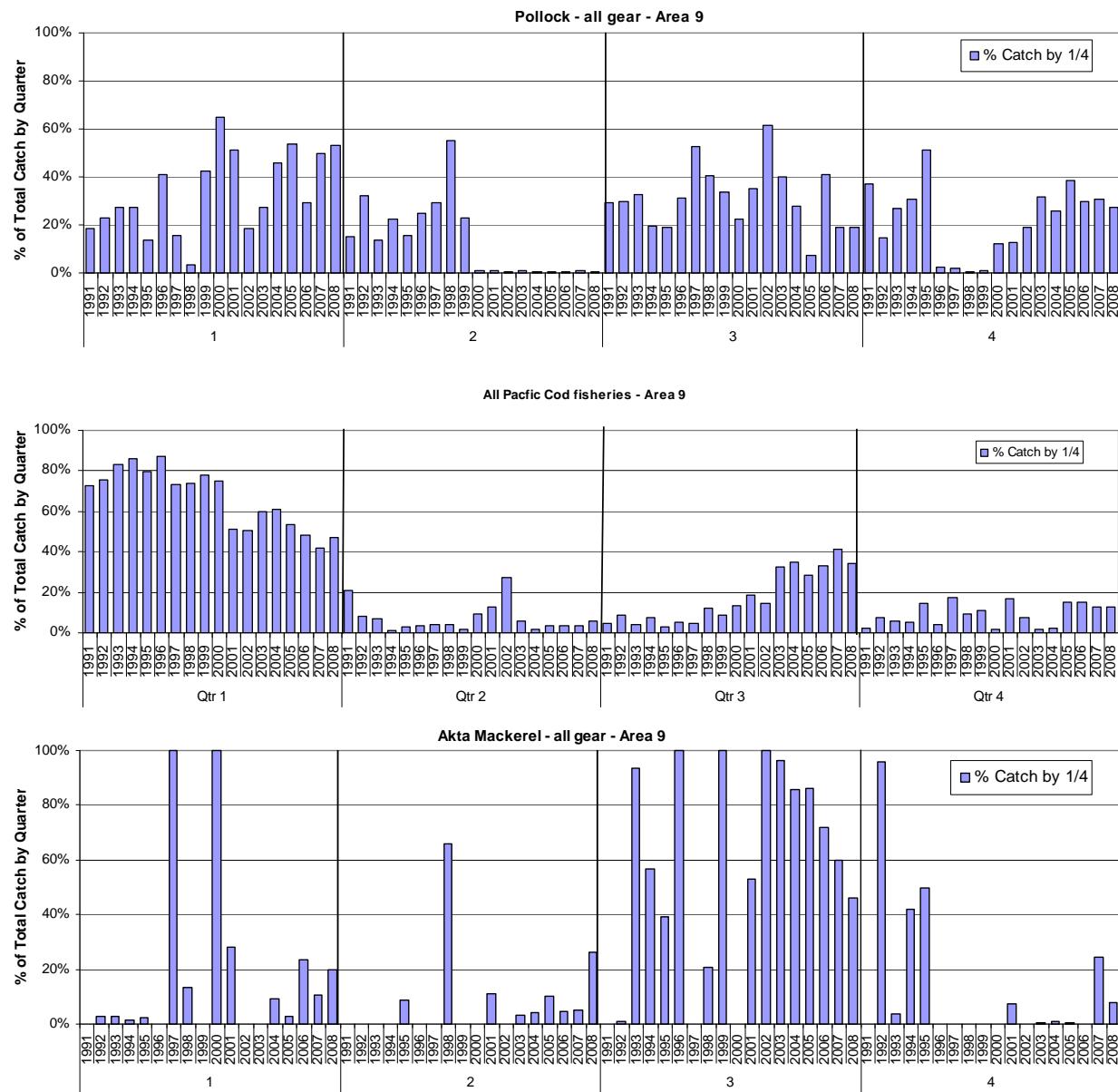


Figure IV-3.10. RCA 10: Proportion of the catch taken by quarter of pollock, and Pacific cod from within each rookery cluster analysis area: 1991-2008.

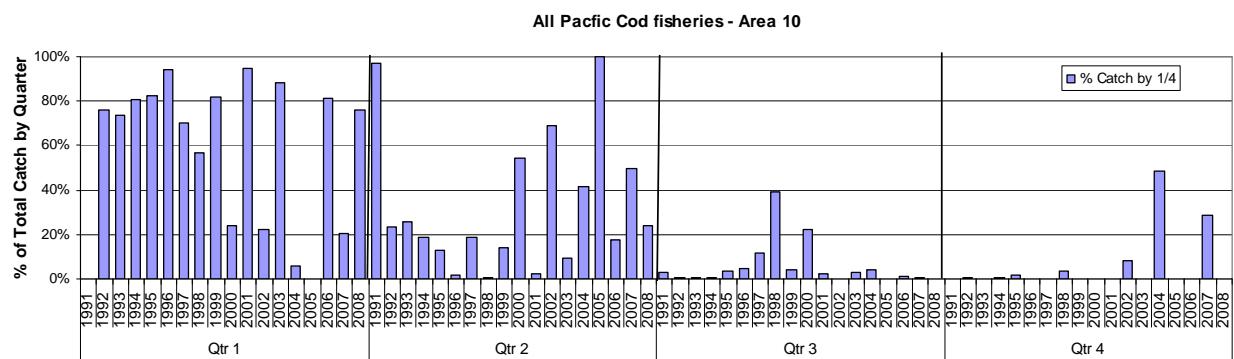
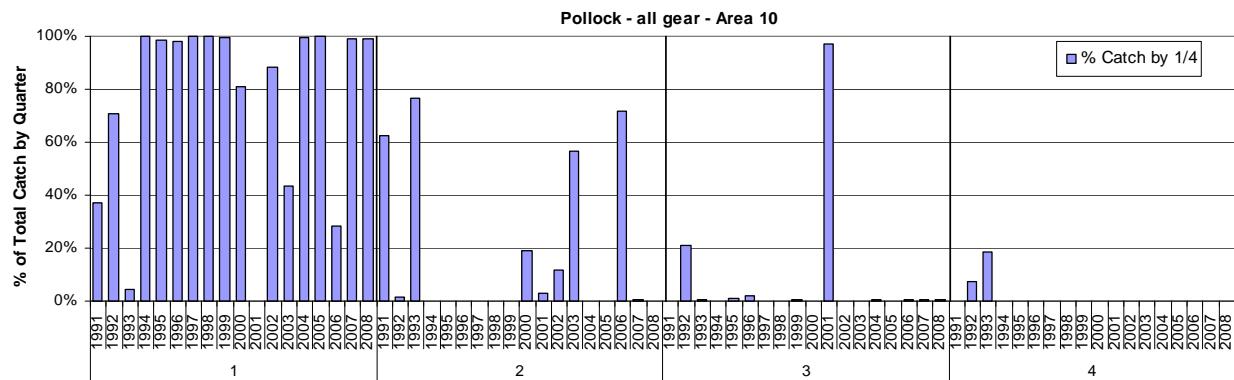


Figure IV-4. The catch of pollock made within the 4 Steller Sea Lion Critical Habitat zones, throughout each of the RCA fishery analysis areas: 1991-2008.  
 Note: y-axis (mt) scale varies.



Figure IV-4. (Continued). Note: the scale of these figures may differ from those on the previous page – in some cases by several orders of magnitude.

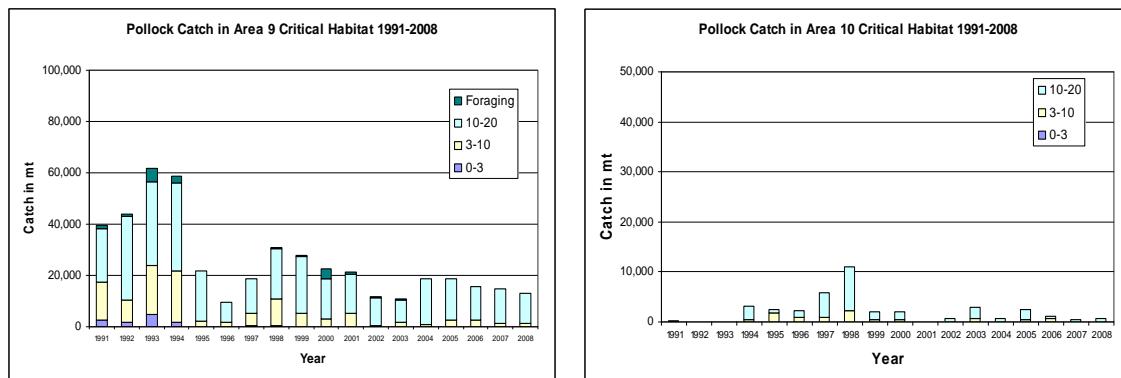


Figure IV-5. The catch of Pacific cod made within the 4 Steller Sea Lion Critical Habitat zones, throughout each of the RCA fishery analysis areas: 1991-2008. Note: y-axis (mt) scale varies.

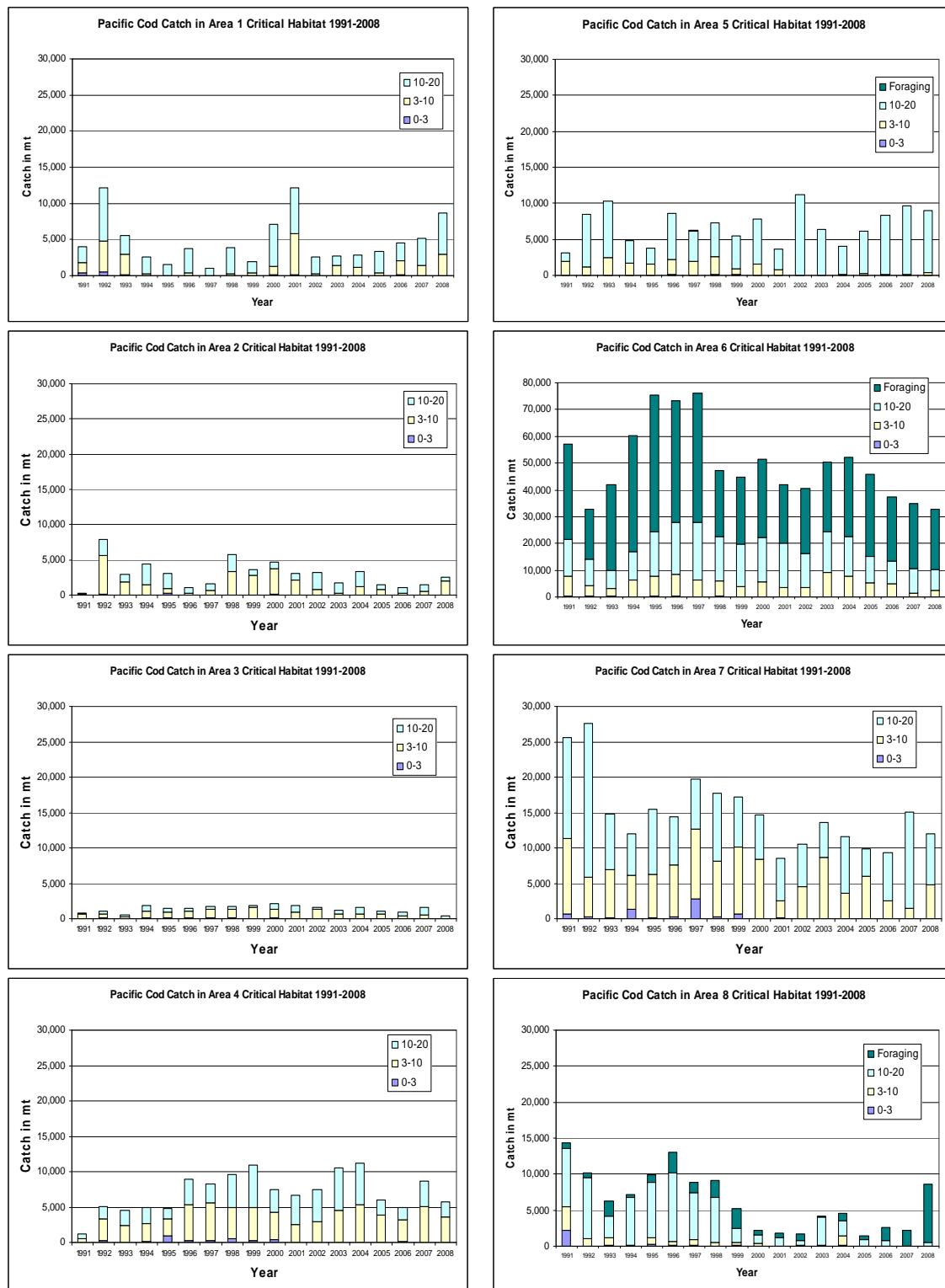


Figure IV-5. (Continued). Note: the scale of these figures may differ from those on the previous page – in some cases by several orders of magnitude.

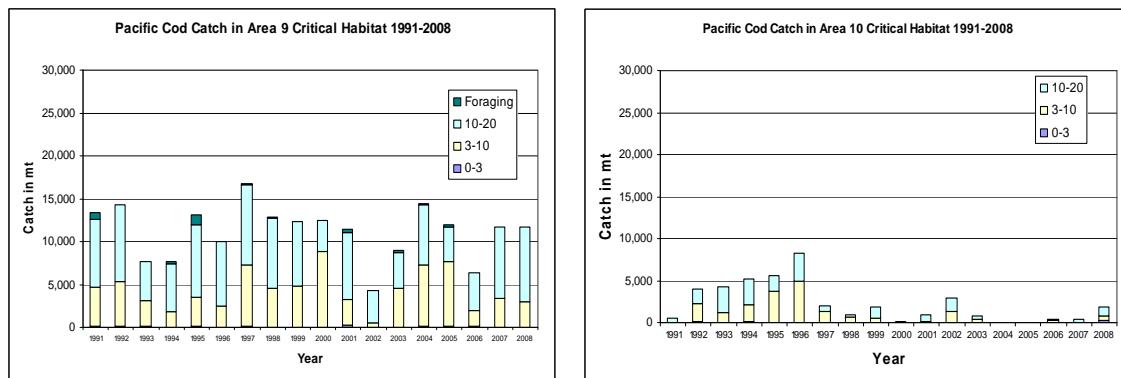


Figure IV-6. The catch of Atka mackerel made within the 4 Steller Sea Lion Critical Habitat zones, throughout each of the RCA fishery analysis areas: 1991-2008.  
 Note: y-axis (mt) scale varies.



Figure IV-6. (Continued). Note: the scale of these figures may differ from those on the previous page – in some cases by several orders of magnitude.

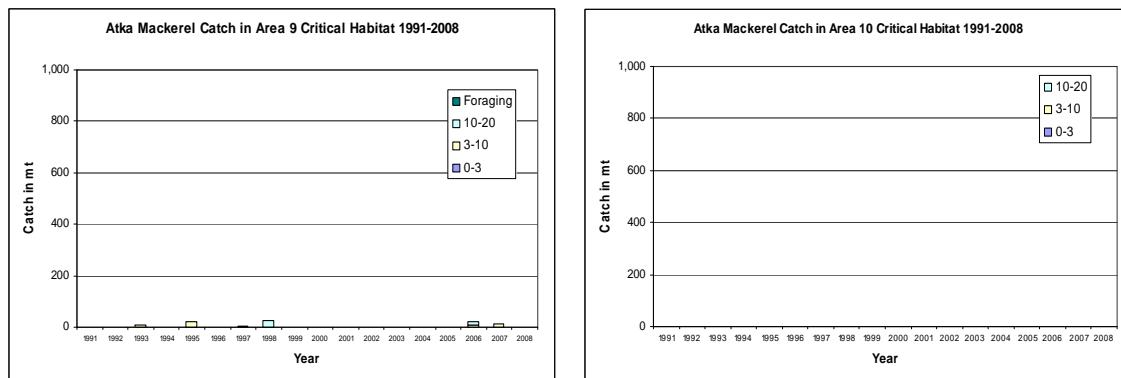


Figure IV-7. The catch of Arrowtooth Flounder made within the 4 Steller Sea Lion Critical Habitat zones, throughout each of the RCA fishery analysis areas: 1991-2008.

Note:

y-axis (mt) scale varies.



Figure RCA 4.7. (Continued). Note: the scale of these figures may differ from those on the previous page – in some cases by several orders of magnitude.

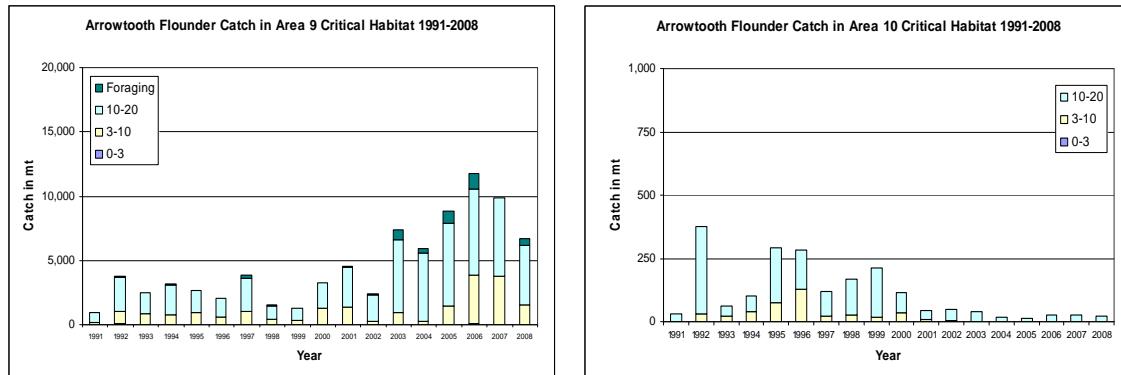


Figure IV-1. Regions used in the “RCA” Fisheries Analysis.

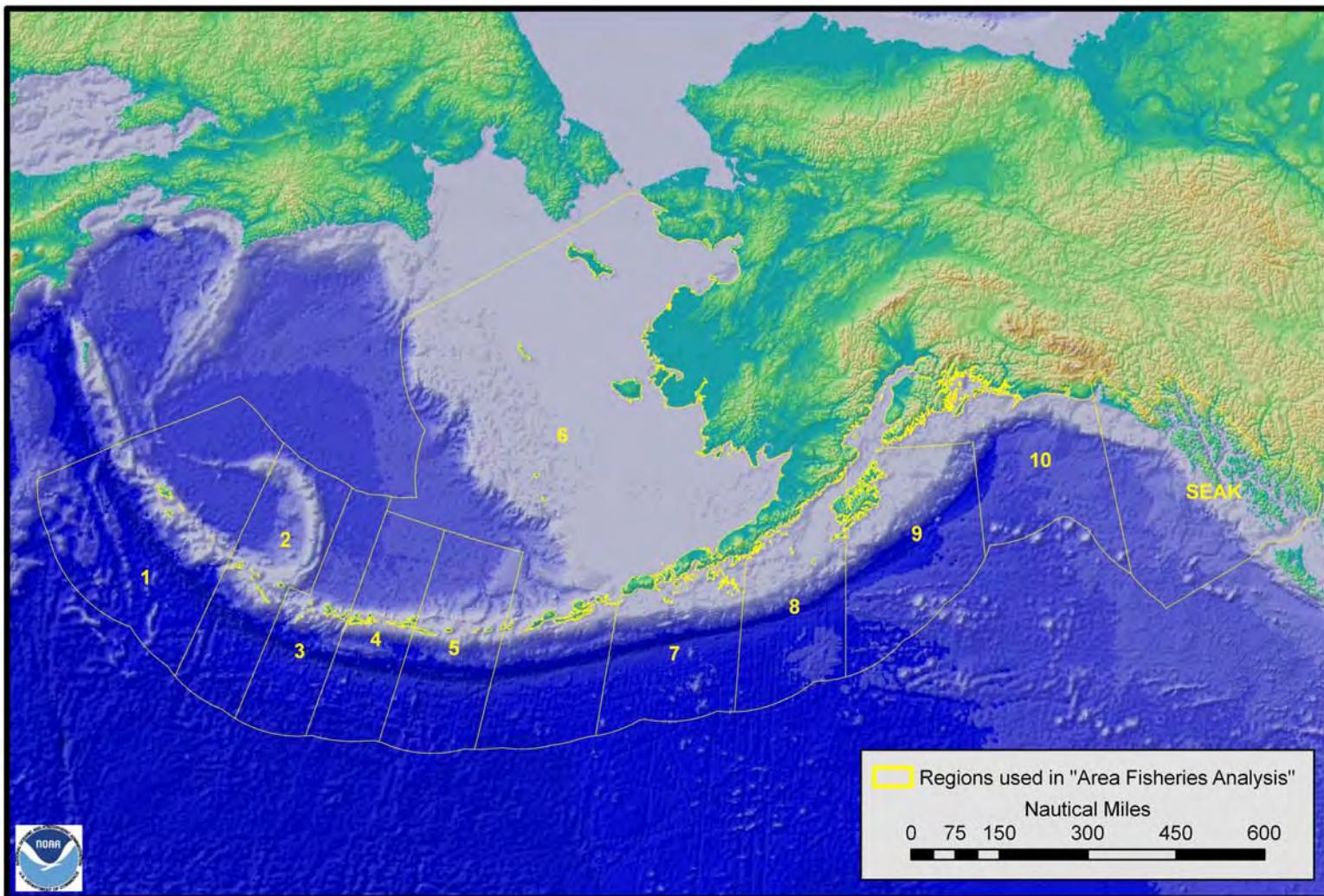


Table IV-1 The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 1. There is no critical habitat foraging zone designated for this Area.

| Pollock Catch by Zones 1991-2008 in Area 1 |     |       |       |        |          |         |         |          |             |           |
|--|-----|-------|-------|--------|----------|---------|---------|----------|-------------|-----------|
| Year                                       | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout | Total CH | Total Catch | % from CH |
| 1991                                       | 0   | 13    | 0     | 13     | 0        | 12      | 1       | 13       | 13          | 100.0     |
| 1992                                       | 0   | 1     | 5     | 7      | 0        | 7       | 2       | 7        | 8           | 83.3      |
| 1993                                       | 1   | 2     | 53    | 56     | 0        | 37      | 24      | 56       | 110         | 50.9      |
| 1994                                       | 0   | 0     | 115   | 115    | 0        | 115     | 108     | 115      | 121         | 95.0      |
| 1995                                       | 0   | 0     | 80    | 80     | 0        | 80      | 17      | 80       | 97          | 82.7      |
| 1996                                       | 0   | 0     | 205   | 205    | 0        | 205     | 101     | 205      | 271         | 75.8      |
| 1997                                       | 0   | 684   | 75    | 759    | 0        | 43      | 743     | 759      | 772         | 98.4      |
| 1998                                       | 491 | 9,425 | 2,514 | 12,429 | 0        | 158     | 12,370  | 12,429   | 17,666      | 70.4      |
| 1999                                       | 0   | 6     | 78    | 84     | 0        | 78      | 38      | 84       | 112         | 75.2      |
| 2000                                       | 1   | 85    | 50    | 135    | 0        | 50      | 114     | 135      | 151         | 89.4      |
| 2001                                       | 0   | 15    | 87    | 102    | 0        | 81      | 78      | 102      | 117         | 87.5      |
| 2002                                       | 0   | 1     | 87    | 88     | 0        | 61      | 64      | 88       | 182         | 48.5      |
| 2003                                       | 0   | 51    | 99    | 150    | 0        | 92      | 65      | 150      | 355         | 42.1      |
| 2004                                       | 0   | 86    | 79    | 165    | 0        | 74      | 112     | 165      | 273         | 60.4      |
| 2005                                       | 0   | 239   | 72    | 311    | 0        | 118     | 216     | 311      | 550         | 56.6      |
| 2006                                       | 0   | 51    | 37    | 88     | 0        | 83      | 22      | 88       | 216         | 40.8      |
| 2007                                       | 0   | 7     | 50    | 57     | 0        | 41      | 52      | 57       | 122         | 46.7      |
| 2008                                       | 0   | 36    | 34    | 70     | 0        | 68      | 8       | 70       | 114         | 61.2      |

| Pacific Cod Catch by Zones 1991-2008 in Area 1 |     |       |       |        |          |         |         |          |             |           |
|--|-----|-------|-------|--------|----------|---------|---------|----------|-------------|-----------|
| Year   | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout | Total CH | Total Catch | % from CH |
| 1991   | 361 | 1,413 | 2,281 | 4,056  | 0        | 2,475   | 2,014   | 4,056    | 4,195       | 96.7      |
| 1992   | 541 | 4,191 | 7,368 | 12,099 | 0        | 8,540   | 5,238   | 12,099   | 13,630      | 88.8      |
| 1993   | 170 | 2,785 | 2,616 | 5,572  | 0        | 3,403   | 3,064   | 5,572    | 6,155       | 90.5      |
| 1994   | 2   | 249   | 2,291 | 2,541  | 0        | 2,505   | 1,682   | 2,541    | 2,660       | 95.5      |
| 1995   | 0   | 0     | 1,545 | 1,545  | 0        | 1,545   | 296     | 1,545    | 1,616       | 95.6      |
| 1996   | 0   | 359   | 3,367 | 3,727  | 0        | 3,507   | 1,933   | 3,727    | 4,197       | 88.8      |
| 1997   | 0   | 0     | 1,014 | 1,014  | 0        | 1,000   | 724     | 1,014    | 1,100       | 92.2      |
| 1998   | 6   | 269   | 3,564 | 3,839  | 0        | 2,989   | 2,441   | 3,839    | 4,209       | 91.2      |
| 1999   | 4   | 422   | 1,507 | 1,933  | 0        | 1,635   | 419     | 1,933    | 2,232       | 86.6      |
| 2000   | 81  | 1,246 | 5,813 | 7,139  | 0        | 4,130   | 4,300   | 7,139    | 7,775       | 91.8      |
| 2001   | 178 | 5,702 | 6,299 | 12,180 | 0        | 8,120   | 6,929   | 12,180   | 13,436      | 90.7      |
| 2002   | 5   | 310   | 2,222 | 2,537  | 0        | 774     | 2,246   | 2,537    | 3,152       | 80.5      |
| 2003   | 0   | 1,460 | 1,211 | 2,670  | 0        | 1,922   | 2,524   | 2,670    | 3,323       | 80.4      |
| 2004   | 2   | 1,135 | 1,706 | 2,843  | 0        | 2,241   | 2,371   | 2,843    | 3,228       | 88.1      |
| 2005   | 0   | 363   | 2,960 | 3,323  | 0        | 2,413   | 3,152   | 3,323    | 4,225       | 78.7      |
| 2006   | 118 | 1,950 | 2,521 | 4,588  | 0        | 2,765   | 4,085   | 4,588    | 4,774       | 96.1      |
| 2007   | 37  | 1,445 | 3,691 | 5,172  | 0        | 3,372   | 3,773   | 5,172    | 5,446       | 95.0      |
| 2008   | 0   | 2,917 | 5,793 | 8,709  | 0        | 6,694   | 5,776   | 8,709    | 9,151       | 95.2      |

Table IV-1. Catch in RCA 1. (Continued).

| <b>Atka Mackerel Catch by Zones 1991-2008 in Area 1</b> |     |      |        |        |          |         |         |          |             |           |
|---|-----|------|--------|--------|----------|---------|---------|----------|-------------|-----------|
| Year  | 0-3 | 3-10 | 10-20  | 0-20   | Foraging | Rookery | Haulout | Total CH | Total Catch | % from CH |
| 1991  | 0   | 13   | 1      | 14     | 0        | 14      | 1       | 14       | 14          | 100.0     |
| 1992  | 0   | 1    | 452    | 453    | 0        | 453     | 8       | 453      | 453         | 100.0     |
| 1993  | 0   | 13   | 1,505  | 1,518  | 0        | 1,502   | 31      | 1,518    | 2,322       | 65.4      |
| 1994  | 0   | 0    | 12,212 | 12,212 | 0        | 12,212  | 8,233   | 12,212   | 12,306      | 99.2      |
| 1995  | 0   | 0    | 17,254 | 17,254 | 0        | 17,254  | 4,444   | 17,254   | 20,621      | 83.7      |
| 1996  | 0   | 4    | 32,698 | 32,702 | 0        | 32,370  | 13,491  | 32,702   | 41,861      | 78.1      |
| 1997  | 0   | 29   | 25,258 | 25,287 | 0        | 24,980  | 13,873  | 25,287   | 30,408      | 83.2      |
| 1998  | 0   | 0    | 20,738 | 20,738 | 0        | 20,672  | 9,693   | 20,738   | 24,634      | 84.2      |
| 1999  | 0   | 0    | 11,803 | 11,803 | 0        | 11,507  | 2,960   | 11,803   | 16,388      | 72.0      |
| 2000  | 0   | 106  | 9,297  | 9,403  | 0        | 9,284   | 749     | 9,403    | 11,406      | 82.4      |
| 2001  | 3   | 257  | 11,405 | 11,665 | 0        | 9,022   | 5,624   | 11,665   | 19,516      | 59.8      |
| 2002  | 0   | 2    | 7,510  | 7,512  | 0        | 4,601   | 3,250   | 7,512    | 17,751      | 42.3      |
| 2003  | 0   | 21   | 5,357  | 5,379  | 0        | 1,580   | 3,925   | 5,379    | 19,077      | 28.2      |
| 2004  | 0   | 9    | 727    | 736    | 0        | 85      | 670     | 736      | 18,375      | 4.0       |
| 2005  | 0   | 2    | 3,543  | 3,545  | 0        | 3,494   | 2,437   | 3,545    | 19,130      | 18.5      |
| 2006  | 0   | 10   | 3,669  | 3,679  | 0        | 3,679   | 2,045   | 3,679    | 14,962      | 24.6      |
| 2007  | 0   | 3    | 3904   | 3907   | 0        | 3,514   | 2,930   | 3,907    | 9,401       | 41.6      |
| 2008  | 0   | 15   | 5,940  | 5,955  | 0        | 5,949   | 4,329   | 5,955    | 16,509      | 36.1      |

| <b>Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 1</b> |     |      |       |      |          |         |         |          |             |           |
|--|-----|------|-------|------|----------|---------|---------|----------|-------------|-----------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout | Total CH | Total Catch | % from CH |
| 1991   | 5   | 66   | 7     | 78   | 0        | 4       | 75      | 78       | 83          | 94.4      |
| 1992   | 1   | 29   | 48    | 78   | 0        | 63      | 17      | 78       | 105         | 74.8      |
| 1993   | 0   | 8    | 15    | 23   | 0        | 13      | 11      | 23       | 119         | 19.3      |
| 1994   | 0   | 2    | 5     | 7    | 0        | 6       | 3       | 7        | 22          | 31.6      |
| 1995   | 0   | 0    | 11    | 11   | 0        | 11      | 0       | 11       | 22          | 49.5      |
| 1996   | 0   | 2    | 80    | 82   | 0        | 77      | 39      | 82       | 119         | 69.0      |
| 1997   | 0   | 0    | 60    | 60   | 0        | 54      | 30      | 60       | 107         | 56.3      |
| 1998   | 0   | 2    | 93    | 95   | 0        | 83      | 64      | 95       | 158         | 60.0      |
| 1999   | 0   | 0    | 52    | 52   | 0        | 52      | 10      | 52       | 92          | 57.0      |
| 2000   | 2   | 18   | 92    | 112  | 0        | 83      | 52      | 112      | 155         | 72.2      |
| 2001   | 3   | 112  | 121   | 236  | 0        | 121     | 130     | 236      | 312         | 75.6      |
| 2002   | 0   | 9    | 82    | 91   | 0        | 71      | 31      | 91       | 350         | 26.0      |
| 2003   | 0   | 7    | 44    | 51   | 0        | 35      | 18      | 51       | 141         | 36.5      |
| 2004   | 0   | 11   | 20    | 31   | 0        | 23      | 11      | 31       | 128         | 24.4      |
| 2005   | 1   | 7    | 20    | 28   | 0        | 20      | 10      | 28       | 178         | 15.5      |
| 2006   | 0   | 22   | 42    | 65   | 0        | 63      | 4       | 65       | 170         | 37.9      |
| 2007   | 0   | 10   | 15    | 25   | 0        | 16      | 15      | 25       | 106         | 24.0      |
| 2008   | 0   | 21   | 25    | 47   | 0        | 40      | 11      | 47       | 200         | 23.3      |

Table IV-2. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 2. There is no critical habitat foraging zone designated for this Area.

| Pollock Catch by Zones 1991-2008 in Area 2 |     |       |       |       |          |         |         | Total CH | Total Catch | CH % |
|--|-----|-------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year                                       | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991                                       | 2   | 32    | 127   | 161   | 0        | 161     | 94      | 161      | 163         | 99.0 |
| 1992                                       | 0   | 2     | 8     | 9     | 0        | 8       | 2       | 9        | 82          | 11.1 |
| 1993                                       | 0   | 4     | 171   | 174   | 0        | 174     | 71      | 174      | 243         | 71.6 |
| 1994                                       | 0   | 140   | 213   | 353   | 0        | 339     | 276     | 353      | 391         | 90.4 |
| 1995                                       | 0   | 2,344 | 194   | 2,538 | 0        | 2,266   | 2,454   | 2,538    | 2,643       | 96.0 |
| 1996                                       | 0   | 152   | 170   | 321   | 0        | 321     | 158     | 321      | 324         | 99.1 |
| 1997                                       | 0   | 339   | 40    | 379   | 0        | 379     | 327     | 379      | 423         | 89.5 |
| 1998                                       | 0   | 9     | 141   | 150   | 0        | 149     | 52      | 150      | 160         | 93.7 |
| 1999                                       | 3   | 71    | 90    | 165   | 0        | 165     | 124     | 165      | 259         | 63.6 |
| 2000                                       | 0   | 25    | 70    | 96    | 0        | 96      | 66      | 96       | 374         | 25.6 |
| 2001                                       | 0   | 115   | 69    | 184   | 0        | 184     | 116     | 184      | 253         | 72.7 |
| 2002                                       | 0   | 2     | 86    | 89    | 0        | 88      | 11      | 89       | 156         | 56.7 |
| 2003                                       | 0   | 263   | 70    | 332   | 0        | 332     | 264     | 332      | 437         | 76.0 |
| 2004                                       | 0   | 40    | 97    | 138   | 0        | 138     | 48      | 138      | 286         | 48.2 |
| 2005                                       | 0   | 54    | 46    | 100   | 0        | 99      | 61      | 100      | 166         | 60.2 |
| 2006                                       | 0   | 0     | 67    | 67    | 0        | 67      | 4       | 67       | 198         | 33.9 |
| 2007                                       | 0   | 34    | 44    | 78    | 0        | 78      | 29      | 78       | 209         | 37.3 |
| 2008                                       | 0   | 2     | 31    | 33    | 0        | 33      | 12      | 33       | 123         | 26.8 |

| Pacific Cod Catch by Zones 1991-2008 in Area 2 |     |       |       |       |          |          |          | Total CH | Total Catch | CH % |
|--|-----|-------|-------|-------|----------|----------|----------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rooker y | Haulou t |          |             |      |
| 1991   | 3   | 148   | 73    | 224   | 0        | 224      | 161      | 224      | 230         | 97.3 |
| 1992   | 78  | 5,484 | 2,380 | 7,942 | 0        | 7,933    | 4,661    | 7,942    | 9,169       | 86.6 |
| 1993   | 51  | 1,844 | 1,115 | 3,010 | 0        | 2,987    | 1,454    | 3,010    | 7,018       | 42.9 |
| 1994   | 28  | 1,412 | 2,931 | 4,372 | 0        | 4,286    | 3,031    | 4,372    | 5,393       | 81.1 |
|  | 28  |       |       |       |          |          |          |          |             |      |
| 1995   | 3   | 669   | 2,164 | 3,116 | 0        | 2,857    | 1,884    | 3,116    | 3,693       | 84.4 |
| 1996   | 0   | 283   | 723   | 1,006 | 0        | 1,006    | 308      | 1,006    | 1,525       | 66.0 |
| 1997   | 2   | 605   | 952   | 1,560 | 0        | 1,560    | 560      | 1,560    | 2,986       | 52.2 |
| 1998   | 66  | 3,233 | 2,433 | 5,732 | 0        | 5,560    | 3,223    | 5,732    | 7,290       | 78.6 |
| 1999   | 32  | 2,761 | 886   | 3,680 | 0        | 3,622    | 2,432    | 3,680    | 3,811       | 96.6 |
|  | 16  |       |       |       |          |          |          |          |             |      |
| 2000   | 9   | 3,589 | 988   | 4,746 | 0        | 4,530    | 3,759    | 4,746    | 6,924       | 68.5 |
| 2001   | 27  | 2,174 | 911   | 3,113 | 0        | 3,049    | 1,998    | 3,113    | 4,868       | 63.9 |
| 2002   | 8   | 822   | 2,345 | 3,175 | 0        | 3,109    | 1,538    | 3,175    | 7,838       | 40.5 |
| 2003   | 14  | 287   | 1,457 | 1,758 | 0        | 1,745    | 241      | 1,758    | 4,645       | 37.8 |
| 2004   | 42  | 1,195 | 2,152 | 3,388 | 0        | 3,379    | 1,437    | 3,388    | 5,008       | 67.7 |
| 2005   | 0   | 793   | 743   | 1,536 | 0        | 1,492    | 986      | 1,536    | 2,779       | 55.3 |
| 2006   | 0   | 253   | 831   | 1,084 | 0        | 1,082    | 286      | 1,084    | 1,647       | 65.8 |
| 2007   | 5   | 565   | 889   | 1,459 | 0        | 1,404    | 685      | 1,459    | 2,247       | 64.9 |
| 2008   | 50  | 1,894 | 585   | 2,529 | 0        | 2,508    | 1,941    | 2,529    | 2,870       | 88.1 |

Table IV- 2. Catch in RCA 2 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 2 |     |       |       |       |          |         |         |          |             |      |
|--|-----|-------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout | Total CH | Total Catch | CH % |
| 1991   | 8   | 232   | 168   | 409   | 0        | 409     | 222     | 409      | 502         | 81.4 |
| 1992   | 0   | 2     | 764   | 766   | 0        | 766     | 36      | 766      | 8,112       | 9.4  |
| 1993   | 0   | 7     | 1,122 | 1,129 | 0        | 1,033   | 167     | 1,129    | 23,468      | 4.8  |
|  |     | 1,88  | 16,06 | 17,95 |          |         |         |          |             |      |
| 1994   | 0   | 2     | 9     | 1     | 0        | 17,926  | 16,480  | 17,952   | 31,060      | 57.8 |
|  | 10  | 1,51  | 37,93 | 39,55 |          |         |         |          |             |      |
| 1995   | 4   | 4     | 8     | 6     | 0        | 39,143  | 25,608  | 39,556   | 40,298      | 98.2 |
|  |     | 15,58 | 16,52 |       |          |         |         |          |             |      |
| 1996   | 0   | 942   | 7     | 9     | 0        | 16,490  | 4,293   | 16,529   | 21,465      | 77.0 |
|  |     | 10,61 | 11,31 |       |          |         |         |          |             |      |
| 1997   | 0   | 700   | 7     | 8     | 0        | 11,318  | 2,930   | 11,318   | 12,092      | 93.6 |
|  |     | 13,23 | 13,31 |       |          |         |         |          |             |      |
| 1998   | 0   | 80    | 6     | 6     | 0        | 13,314  | 2,780   | 13,316   | 13,453      | 99.0 |
| 1999   | 0   | 98    | 3,918 | 4,016 | 0        | 4,016   | 1,769   | 4,016    | 14,269      | 28.1 |
| 2000   | 2   | 217   | 4,609 | 4,828 | 0        | 4,828   | 1,237   | 4,828    | 17,903      | 27.0 |
| 2001   | 0   | 617   | 7,597 | 8,214 | 0        | 8,214   | 2,816   | 8,214    | 27,385      | 30.0 |
|  |     | 11,00 | 11,03 |       |          |         |         |          |             |      |
| 2002   | 0   | 30    | 3     | 3     | 0        | 11,026  | 442     | 11,033   | 20,369      | 54.2 |
|  |     | 12,62 | 12,73 |       |          |         |         |          |             |      |
| 2003   | 0   | 105   | 9     | 4     | 0        | 12,734  | 385     | 12,734   | 26,086      | 48.8 |
|  |     | 12,90 | 12,93 |       |          |         |         |          |             |      |
| 2004   | 30  | 1     | 7     | 8     | 0        | 12,938  | 110     | 12,938   | 27,899      | 46.4 |
|  |     | 15,70 | 15,93 |       |          |         |         |          |             |      |
| 2005   | 0   | 225   | 7     | 2     | 0        | 15,931  | 6,710   | 15,932   | 31,648      | 50.3 |
|  |     | 16,02 | 16,03 |       |          |         |         |          |             |      |
| 2006   | 0   | 9     | 4     | 3     | 0        | 16,030  | 111     | 16,033   | 36,602      | 43.8 |
| 2007   | 0   | 10    | 7572  | 7583  | 0        | 7,583   | 954     | 7,583    | 21,461      | 35.3 |
| 2008   | 0   | 167   | 8,404 | 8,571 | 0        | 8,571   | 2,171   | 8,571    | 17,917      | 47.8 |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 2 |     |      |       |      |          |         |         | Total CH | Total Catch | CH %  |
|---|-----|------|-------|------|----------|---------|---------|----------|-------------|-------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |       |
| 1991  | 0   | 9    | 25    | 34   | 0        | 33      | 1       | 34       | 41          | 81.75 |
| 1992  | 0   | 12   | 16    | 28   | 0        | 27      | 9       | 28       | 53          | 52.06 |
| 1993  | 0   | 4    | 36    | 41   | 0        | 40      | 4       | 41       | 152         | 26.65 |
| 1994  | 0   | 3    | 54    | 57   | 0        | 55      | 17      | 57       | 151         | 37.61 |
| 1995  | 6   | 2    | 16    | 24   | 0        | 17      | 19      | 24       | 68          | 35.44 |
| 1996  | 0   | 3    | 20    | 23   | 0        | 23      | 5       | 23       | 99          | 23.12 |
| 1997  | 0   | 1    | 31    | 32   | 0        | 32      | 5       | 32       | 51          | 63.67 |
| 1998  | 0   | 6    | 28    | 34   | 0        | 32      | 9       | 34       | 125         | 27.04 |
| 1999  | 1   | 7    | 40    | 48   | 0        | 48      | 22      | 48       | 146         | 33.03 |
| 2000  | 1   | 26   | 28    | 56   | 0        | 55      | 39      | 56       | 270         | 20.67 |
| 2001  | 0   | 26   | 61    | 87   | 0        | 87      | 39      | 87       | 302         | 28.96 |
| 2002  | 0   | 19   | 230   | 248  | 0        | 248     | 19      | 248      | 377         | 65.86 |
| 2003  | 0   | 8    | 19    | 26   | 0        | 26      | 4       | 26       | 102         | 25.78 |
| 2004  | 1   | 10   | 73    | 84   | 0        | 84      | 8       | 84       | 156         | 53.72 |
| 2005  | 0   | 5    | 13    | 18   | 0        | 18      | 5       | 18       | 65          | 28.00 |

|      |   |    |    |    |   |    |   |    |     |       |
|------|---|----|----|----|---|----|---|----|-----|-------|
| 2006 | 0 | 2  | 13 | 15 | 0 | 15 | 0 | 15 | 522 | 2.86  |
| 2007 | 0 | 13 | 32 | 45 | 0 | 45 | 6 | 45 | 171 | 26.11 |
| 2008 | 0 | 3  | 34 | 37 | 0 | 37 | 3 | 37 | 91  | 40.7  |

Table IV-3. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 3. There is no critical habitat foraging zone designated for this Area.

| Pollock Catch by Zones 1991-2008 in Area 3 |       |        |       |        |          |         |         | Total CH | Total Catch | CH %  |
|--|-------|--------|-------|--------|----------|---------|---------|----------|-------------|-------|
| Year                                       | 0-3   | 3-10   | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |       |
| 1991                                       | 35    | 308    | 20    | 363    | 0        | 362     | 363     | 363      | 442         | 82.1  |
| 1992                                       | 14    | 116    | 8     | 138    | 0        | 105     | 138     | 138      | 139         | 99.1  |
| 1993                                       | 31    | 2,312  | 2     | 2,345  | 0        | 1,155   | 2,345   | 2,345    | 2,345       | 100.0 |
| 1994                                       | 3     | 25     | 11    | 39     | 0        | 39      | 39      | 39       | 39          | 99.9  |
| 1995                                       | 2,972 | 34,056 | 169   | 37,197 | 0        | 17,974  | 37,197  | 37,197   | 37,404      | 99.4  |
| 1996                                       | 1,730 | 19,579 | 1     | 21,310 | 0        | 9,895   | 21,062  | 21,310   | 21,481      | 99.2  |
| 1997                                       | 3,248 | 14,095 | 107   | 17,451 | 0        | 8,930   | 17,402  | 17,451   | 17,451      | 100.0 |
| 1998                                       | 327   | 3,184  | 13    | 3,524  | 0        | 1,503   | 3,524   | 3,524    | 3,698       | 95.3  |
| 1999                                       | 10    | 291    | 67    | 368    | 0        | 107     | 368     | 368      | 371         | 99.2  |
| 2000                                       | 168   | 272    | 5     | 444    | 0        | 306     | 444     | 444      | 447         | 99.5  |
| 2001                                       | 0     | 149    | 5     | 155    | 0        | 153     | 155     | 155      | 161         | 96.1  |
| 2002                                       | 0     | 21     | 9     | 30     | 0        | 23      | 30      | 30       | 31          | 96.1  |
| 2003                                       | 59    | 124    | 7     | 191    | 0        | 186     | 191     | 191      | 191         | 99.5  |
| 2004                                       | 82    | 53     | 2     | 137    | 0        | 135     | 137     | 137      | 139         | 98.9  |
| 2005                                       | 41    | 59     | 13    | 112    | 0        | 112     | 112     | 112      | 113         | 99.6  |
| 2006                                       | 10    | 65     | 1     | 76     | 0        | 76      | 76      | 76       | 76          | 100.0 |
| 2007                                       | 14    | 184    | 36    | 235    | 0        | 231     | 235     | 235      | 235         | 99.9  |
| 2008                                       | 7     | 125    | 36    | 168    | 0        | 141     | 168     | 168      | 168         | 100.0 |

| Pacific Cod Catch by Zones 1991-2008 in Area 3 |     |       |       |       |          |         |         | Total CH | Total Catch | CH %  |
|--|-----|-------|-------|-------|----------|---------|---------|----------|-------------|-------|
| Year   | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |       |
| 1991   | 43  | 657   | 38    | 739   | 0        | 699     | 732     | 739      | 739         | 99.9  |
| 1992   | 195 | 499   | 314   | 1,008 | 0        | 886     | 987     | 1,008    | 1,022       | 98.6  |
| 1993   | 51  | 196   | 232   | 479   | 0        | 406     | 470     | 479      | 479         | 100.0 |
| 1994   | 150 | 954   | 784   | 1,889 | 0        | 1,674   | 1,866   | 1,889    | 1,892       | 99.8  |
| 1995   | 128 | 765   | 635   | 1,528 | 0        | 669     | 1,525   | 1,528    | 1,607       | 95.0  |
| 1996   | 126 | 936   | 367   | 1,429 | 0        | 617     | 1,427   | 1,429    | 1,490       | 95.9  |
| 1997   | 145 | 1,236 | 331   | 1,713 | 0        | 1,086   | 1,710   | 1,713    | 1,753       | 97.7  |
| 1998   | 82  | 1,235 | 354   | 1,670 | 0        | 961     | 1,652   | 1,670    | 1,713       | 97.5  |
| 1999   | 52  | 1,513 | 262   | 1,828 | 0        | 662     | 1,807   | 1,828    | 1,876       | 97.4  |
| 2000   | 95  | 1,187 | 791   | 2,073 | 0        | 1,210   | 1,941   | 2,073    | 2,253       | 92.0  |
| 2001   | 48  | 932   | 839   | 1,819 | 0        | 1,072   | 1,717   | 1,819    | 1,899       | 95.8  |
| 2002   | 9   | 1,301 | 250   | 1,559 | 0        | 452     | 1,559   | 1,559    | 1,583       | 98.5  |
| 2003   | 1   | 716   | 457   | 1,173 | 0        | 675     | 1,169   | 1,173    | 1,175       | 99.8  |
| 2004   | 7   | 718   | 843   | 1,568 | 0        | 770     | 1,568   | 1,568    | 1,569       | 99.9  |
| 2005   | 1   | 650   | 454   | 1,104 | 0        | 485     | 1,104   | 1,104    | 1,104       | 100.0 |
| 2006   | 2   | 384   | 581   | 967   | 0        | 832     | 967     | 967      | 967         | 100.0 |
| 2007   | 7   | 514   | 1,071 | 1,592 | 0        | 570     | 1,590   | 1,592    | 1,610       | 98.9  |
| 2008   | 0   | 1,100 | 340   | 1,440 | 0        | 743     | 1,371   | 1,440    | 1,441       | 99.9  |

Table IV-3 Catch in RCA 3 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 3 |       |       |       |        |          |         |         | Total CH | Total Catch | CH %  |
|--|-------|-------|-------|--------|----------|---------|---------|----------|-------------|-------|
| Year   | 0-3   | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |       |
| 1991   | 291   | 6,858 | 63    | 7,212  | 0        | 7,079   | 7,209   | 7,212    | 7,212       | 100.0 |
| 1992   | 760   | 4,349 | 805   | 5,914  | 0        | 5,559   | 5,907   | 5,914    | 5,914       | 100.0 |
| 1993   | 191   | 539   | 865   | 1,595  | 0        | 1,585   | 1,585   | 1,595    | 1,595       | 100.0 |
| 1994   | 1,032 | 2,995 | 2,387 | 6,414  | 0        | 6,347   | 6,352   | 6,414    | 6,438       | 99.6  |
| 1995   | 2     | 4,143 | 3,114 | 7,259  | 0        | 6,036   | 7,259   | 7,259    | 7,269       | 99.9  |
| 1996   | 1,002 | 8,509 | 1,706 | 11,218 | 0        | 10,832  | 11,215  | 11,218   | 11,218      | 100.0 |
| 1997   | 2,159 | 3,371 | 306   | 5,836  | 0        | 5,354   | 5,715   | 5,836    | 5,910       | 98.8  |
| 1998   | 190   | 2,559 | 2,925 | 5,673  | 0        | 5,272   | 5,550   | 5,673    | 5,937       | 95.6  |
| 1999   | 231   | 6,864 | 932   | 8,027  | 0        | 7,782   | 8,027   | 8,027    | 8,040       | 99.8  |
| 2000   | 674   | 2,041 | 471   | 3,186  | 0        | 3,092   | 3,186   | 3,186    | 3,284       | 97.0  |
| 2001   | 358   | 3,421 | 2,707 | 6,486  | 0        | 6,200   | 6,200   | 6,486    | 6,516       | 99.5  |
| 2002   | 41    | 1,037 | 965   | 2,043  | 0        | 2,012   | 2,043   | 2,043    | 2,048       | 99.8  |
| 2003   | 7     | 362   | 799   | 1,167  | 0        | 1,160   | 1,167   | 1,167    | 1,189       | 98.2  |
| 2004   | 39    | 143   | 2,216 | 2,398  | 0        | 2,385   | 2,398   | 2,398    | 2,405       | 99.7  |
| 2005   | 15    | 439   | 3,784 | 4,238  | 0        | 4,238   | 4,238   | 4,238    | 4,244       | 99.9  |
| 2006   | 0     | 357   | 2,311 | 2,668  | 0        | 2,665   | 2,668   | 2,668    | 2,668       | 100.0 |
| 2007   | 85    | 243   | 4054  | 4381   | 0        | 4,380   | 4,381   | 4,381    | 4,381       | 100.0 |
| 2008   | 0     | 113   | 4,447 | 4,560  | 0        | 4,558   | 4,559   | 4,560    | 4,560       | 100.0 |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 3 |     |      |       |      |          |         |         | Total CH | Total Catch | CH %  |
|---|-----|------|-------|------|----------|---------|---------|----------|-------------|-------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |       |
| 1991  | 3   | 90   | 57    | 150  | 0        | 85      | 150     | 150      | 168         | 89.5  |
| 1992  | 3   | 34   | 41    | 77   | 0        | 34      | 77      | 77       | 83          | 93.1  |
| 1993  | 10  | 66   | 15    | 92   | 0        | 75      | 90      | 92       | 95          | 96.7  |
| 1994  | 3   | 48   | 13    | 64   | 0        | 50      | 64      | 64       | 65          | 98.0  |
| 1995  | 2   | 79   | 10    | 91   | 0        | 75      | 90      | 91       | 94          | 97.3  |
| 1996  | 5   | 85   | 11    | 102  | 0        | 92      | 102     | 102      | 103         | 98.9  |
| 1997  | 10  | 219  | 58    | 286  | 0        | 258     | 285     | 286      | 288         | 99.3  |
| 1998  | 0   | 41   | 9     | 49   | 0        | 45      | 48      | 49       | 52          | 94.0  |
| 1999  | 3   | 138  | 22    | 163  | 0        | 139     | 159     | 163      | 169         | 96.1  |
| 2000  | 9   | 103  | 38    | 150  | 0        | 139     | 149     | 150      | 156         | 96.6  |
| 2001  | 0   | 149  | 37    | 187  | 0        | 173     | 187     | 187      | 188         | 99.7  |
| 2002  | 3   | 73   | 140   | 216  | 0        | 206     | 216     | 216      | 218         | 99.0  |
| 2003  | 18  | 52   | 29    | 99   | 0        | 74      | 99      | 99       | 100         | 99.0  |
| 2004  | 16  | 36   | 21    | 73   | 0        | 60      | 73      | 73       | 79          | 92.4  |
| 2005  | 10  | 64   | 39    | 113  | 0        | 109     | 113     | 113      | 113         | 99.9  |
| 2006  | 13  | 130  | 53    | 195  | 0        | 175     | 194     | 195      | 195         | 100.0 |
| 2007  | 10  | 39   | 39    | 88   | 0        | 69      | 88      | 88       | 92          | 96.0  |
| 2008  | 3   | 87   | 54    | 145  | 0        | 138     | 145     | 145      | 148         | 98.1  |

Table IV-4. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 4. There is no critical habitat foraging zone designated for this Area.

| Pollock Catch by Zones 1991-2008 in Area 4 |       |       |       |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|-------|-------|--------|----------|---------|---------|----------|-------------|------|
| Year                                       | 0-3   | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                       | 0     | 6     | 14    | 20     | 0        | 9       | 12      | 20       | 170         | 11.7 |
| 1992                                       | 0     | 1,044 | 4,583 | 5,628  | 0        | 486     | 5,145   | 5,628    | 8,158       | 69.0 |
| 1993                                       | 0     | 4,259 | 8,010 | 12,270 | 0        | 4,388   | 7,900   | 12,270   | 13,933      | 88.1 |
| 1994                                       | 484   | 3,376 | 994   | 4,855  | 0        | 385     | 4,471   | 4,855    | 5,301       | 91.6 |
| 1995                                       | 1,675 | 9,336 | 6,183 | 17,193 | 0        | 4,225   | 13,425  | 17,193   | 18,915      | 90.9 |
| 1996                                       | 339   | 1,756 | 135   | 2,231  | 0        | 329     | 2,215   | 2,231    | 2,476       | 90.1 |
| 1997                                       | 129   | 2,338 | 4,046 | 6,513  | 0        | 911     | 6,157   | 6,513    | 7,186       | 90.6 |
| 1998                                       | 0     | 381   | 1,111 | 1,492  | 0        | 338     | 1,158   | 1,492    | 1,727       | 86.4 |
| 1999                                       | 0     | 89    | 105   | 194    | 0        | 36      | 191     | 194      | 202         | 95.7 |
| 2000                                       | 0     | 99    | 92    | 191    | 0        | 20      | 191     | 191      | 193         | 98.8 |
| 2001                                       | 0     | 16    | 78    | 94     | 0        | 58      | 70      | 94       | 133         | 70.5 |
| 2002                                       | 0     | 71    | 5     | 76     | 0        | 70      | 76      | 76       | 78          | 98.3 |
| 2003                                       | 0     | 9     | 280   | 289    | 0        | 28      | 272     | 289      | 398         | 72.6 |
| 2004                                       | 0     | 9     | 124   | 133    | 0        | 27      | 132     | 133      | 150         | 88.6 |
| 2005                                       | 0     | 6     | 17    | 23     | 0        | 3       | 22      | 23       | 212         | 10.8 |
| 2006                                       | 0     | 105   | 11    | 116    | 0        | 12      | 111     | 116      | 122         | 95.0 |
| 2007                                       | 0     | 11    | 3     | 14     | 0        | 3       | 13      | 14       | 919         | 1.5  |
| 2008                                       | 0     | 22    | 47    | 68     | 0        | 2       | 68      | 68       | 470         | 14.5 |

| Pacific Cod Catch by Zones 1991-2008 in Area 4 |     |       |       |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|-------|-------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 65  | 462   | 690   | 1,217  | 0        | 595     | 775     | 1,217    | 1,381       | 88.1 |
| 1992   | 223 | 3,147 | 1,648 | 5,018  | 0        | 1,211   | 4,388   | 5,018    | 5,956       | 84.2 |
| 1993   | 66  | 2,306 | 2,215 | 4,588  | 0        | 1,877   | 4,389   | 4,588    | 7,481       | 61.3 |
| 1994   | 103 | 2,583 | 2,223 | 4,909  | 0        | 2,470   | 4,473   | 4,909    | 5,109       | 96.1 |
| 1995   | 881 | 2,500 | 1,409 | 4,790  | 0        | 1,612   | 4,725   | 4,790    | 5,167       | 92.7 |
| 1996   | 288 | 5,059 | 3,560 | 8,907  | 0        | 4,588   | 7,511   | 8,907    | 9,968       | 89.4 |
| 1997   | 215 | 5,377 | 2,720 | 8,311  | 0        | 3,978   | 7,497   | 8,311    | 10,864      | 76.5 |
| 1998   | 529 | 4,435 | 4,604 | 9,567  | 0        | 5,153   | 7,922   | 9,567    | 12,273      | 78.0 |
| 1999   | 262 | 4,676 | 5,990 | 10,928 | 0        | 4,976   | 10,066  | 10,928   | 11,905      | 91.8 |
| 2000   | 435 | 3,801 | 3,174 | 7,410  | 0        | 2,221   | 6,512   | 7,410    | 10,034      | 73.8 |
| 2001   | 6   | 2,546 | 4,063 | 6,615  | 0        | 4,055   | 6,250   | 6,615    | 8,215       | 80.5 |
| 2002   | 0   | 2,995 | 4,521 | 7,516  | 0        | 3,712   | 6,803   | 7,516    | 9,594       | 78.3 |
| 2003   | 0   | 4,489 | 6,101 | 10,590 | 0        | 7,185   | 10,132  | 10,590   | 14,437      | 73.4 |
| 2004   | 21  | 5,268 | 5,883 | 11,173 | 0        | 6,557   | 10,380  | 11,173   | 12,556      | 89.0 |
| 2005   | 0   | 3,845 | 2,118 | 5,963  | 0        | 3,700   | 5,697   | 5,963    | 6,795       | 87.8 |
| 2006   | 74  | 3,112 | 1,804 | 4,990  | 0        | 1,974   | 4,359   | 4,990    | 6,042       | 82.6 |
| 2007   | 6   | 5,000 | 3,623 | 8,629  | 0        | 2,869   | 8,308   | 8,629    | 10,501      | 82.2 |
| 2008   | 0   | 3,616 | 2,092 | 5,708  | 0        | 3,076   | 5,107   | 5,708    | 6,910       | 82.6 |

Table IV-4. Catch in RCA 4 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 4 |     |      |       |      |          |         |         | Total CH | Total Catch | CH %  |
|--|-----|------|-------|------|----------|---------|---------|----------|-------------|-------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |       |
| 1991   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0   |
| 1992   | 0   | 1    | 5     | 6    | 0        | 0       | 6       | 6        | 12          | 50.0  |
| 1993   | 0   | 11   | 1     | 12   | 0        | 1       | 12      | 12       | 12          | 100.0 |
| 1994   | 0   | 79   | 67    | 146  | 0        | 123     | 146     | 146      | 146         | 100.0 |
| 1995   | 98  | 268  | 10    | 376  | 0        | 101     | 376     | 376      | 384         | 98.1  |
| 1996   | 0   | 502  | 22    | 524  | 0        | 71      | 524     | 524      | 525         | 99.9  |
| 1997   | 0   | 341  | 22    | 363  | 0        | 39      | 363     | 363      | 364         | 99.8  |
| 1998   | 4   | 32   | 3     | 38   | 0        | 21      | 33      | 38       | 41          | 94.2  |
| 1999   | 1   | 517  | 34    | 552  | 0        | 42      | 549     | 552      | 554         | 99.6  |
| 2000   | 0   | 25   | 12    | 37   | 0        | 25      | 37      | 37       | 37          | 100.0 |
| 2001   | 31  | 83   | 124   | 238  | 0        | 114     | 207     | 238      | 238         | 100.0 |
| 2002   | 0   | 8    | 8     | 16   | 0        | 15      | 16      | 16       | 16          | 100.0 |
| 2003   | 0   | 190  | 196   | 387  | 0        | 356     | 386     | 387      | 411         | 94.1  |
| 2004   | 0   | 160  | 125   | 285  | 0        | 283     | 285     | 285      | 285         | 100.0 |
| 2005   | 0   | 27   | 4     | 32   | 0        | 30      | 32      | 32       | 32          | 99.9  |
| 2006   | 0   | 36   | 21    | 58   | 0        | 52      | 57      | 58       | 58          | 99.6  |
| 2007   | 0   | 20   | 4     | 24   | 0        | 15      | 24      | 24       | 26          | 92.5  |
| 2008   | 0   | 51   | 1     | 52   | 0        | 48      | 52      | 52       | 53          | 97.6  |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 4 |     |      |       |      |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 2   | 22   | 39    | 63   | 0        | 28      | 48      | 63       | 85          | 74.3 |
| 1992  | 0   | 40   | 74    | 114  | 0        | 20      | 101     | 114      | 163         | 70.0 |
| 1993  | 2   | 40   | 64    | 107  | 0        | 38      | 85      | 107      | 151         | 70.9 |
| 1994  | 0   | 30   | 40    | 70   | 0        | 28      | 53      | 70       | 81          | 86.0 |
| 1995  | 1   | 33   | 49    | 83   | 0        | 46      | 60      | 83       | 129         | 64.5 |
| 1996  | 1   | 39   | 39    | 79   | 0        | 26      | 68      | 79       | 98          | 81.0 |
| 1997  | 2   | 69   | 62    | 132  | 0        | 56      | 96      | 132      | 146         | 91.0 |
| 1998  | 2   | 25   | 32    | 59   | 0        | 22      | 45      | 59       | 76          | 77.8 |
| 1999  | 2   | 46   | 54    | 102  | 0        | 61      | 72      | 102      | 119         | 85.5 |
| 2000  | 1   | 82   | 81    | 164  | 0        | 83      | 132     | 164      | 194         | 84.4 |
| 2001  | 0   | 36   | 56    | 93   | 0        | 61      | 61      | 93       | 102         | 91.0 |
| 2002  | 1   | 28   | 19    | 48   | 0        | 32      | 40      | 48       | 58          | 83.6 |
| 2003  | 0   | 38   | 50    | 88   | 0        | 52      | 81      | 88       | 109         | 81.4 |
| 2004  | 1   | 34   | 28    | 63   | 0        | 41      | 55      | 63       | 69          | 91.4 |
| 2005  | 0   | 43   | 10    | 54   | 0        | 42      | 50      | 54       | 63          | 85.8 |
| 2006  | 0   | 82   | 45    | 127  | 0        | 79      | 101     | 127      | 144         | 88.5 |
| 2007  | 0   | 36   | 25    | 61   | 0        | 26      | 54      | 61       | 71          | 85.6 |
| 2008  | 0   | 28   | 21    | 49   | 0        | 29      | 39      | 49       | 78          | 63.0 |

Table IV-5. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 5. The Seguam critical habitat foraging area is included in this Area.

| Pollock Catch by Zones 1991-2008 in Area 5 |     |       |        |        |          |         |         | Total CH | Total Catch | CH %  |
|--|-----|-------|--------|--------|----------|---------|---------|----------|-------------|-------|
| Year                                       | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |       |
| 1991                                       | 1   | 7,296 | 51,666 | 58,963 |          | 1,724   | 58,941  | 58,964   | 79,716      | 74.0  |
| 1992                                       | 0   | 5,665 | 15,636 | 21,301 | 464      | 5,882   | 20,819  | 21,765   | 42,875      | 50.8  |
| 1993                                       | 0   | 3,287 | 8,647  | 11,933 | 152      | 3,881   | 11,207  | 12,085   | 40,061      | 30.2  |
| 1994                                       | 0   | 4,842 | 15,554 | 20,397 | 5,676    | 8,435   | 17,661  | 26,072   | 52,526      | 49.6  |
| 1995                                       | 0   | 7     | 3,261  | 3,268  |          | 1       | 292     | 2,997    | 3,269       | 5,865 |
| 1996                                       | 0   | 3     | 1,427  | 1,431  |          | 1       | 208     | 1,430    | 1,431       | 4,504 |
| 1997                                       | 0   | 4     | 61     | 65     |          | 1       | 6       | 65       | 66          | 104   |
| 1998                                       | 0   | 80    | 22     | 102    |          | 0       | 94      | 102      | 103         | 568   |
| 1999                                       | 0   | 2     | 44     | 47     |          | 0       | 4       | 47       | 47          | 66    |
| 2000                                       | 0   | 1     | 59     | 61     |          | 3       | 4       | 61       | 63          | 75    |
| 2001                                       | 0   | 55    | 65     | 119    |          | 1       | 59      | 119      | 121         | 151   |
| 2002                                       | 0   | 65    | 75     | 140    |          | 1       | 92      | 140      | 142         | 160   |
| 2003                                       | 0   | 19    | 191    | 210    |          | 11      | 39      | 214      | 221         | 269   |
| 2004                                       | 0   | 38    | 116    | 155    |          | 0       | 39      | 154      | 155         | 301   |
| 2005                                       | 0   | 11    | 484    | 495    |          | 11      | 484     | 490      | 506         | 580   |
| 2006                                       | 0   | 0     | 1,073  | 1,074  |          | 2       | 2       | 1,072    | 1,075       | 1,115 |
| 2007                                       | 0   | 30    | 548    | 579    |          | 5       | 39      | 582      | 584         | 1,038 |
| 2008                                       | 0   | 14    | 328    | 342    |          | 0       | 161     | 326      | 343         | 404   |

| Pacific Cod Catch by Zones 1991-2008 in Area 5 |     |       |        |        |          |         |         | Total CH | Total Catch | CH %   |
|--|-----|-------|--------|--------|----------|---------|---------|----------|-------------|--------|
| Year   | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |        |
| 1991   | 63  | 1,956 | 1,056  | 3,075  |          | 16      | 2,378   | 3,074    | 3,091       | 3,251  |
| 1992   | 4   | 1,208 | 7,312  | 8,525  |          | 19      | 2,178   | 8,518    | 8,543       | 13,124 |
| 1993   | 7   | 2,408 | 7,844  | 10,259 |          | 1       | 3,462   | 10,261   | 10,259      | 13,019 |
| 1994   | 29  | 1,624 | 3,195  | 4,847  |          | 3       | 2,032   | 4,856    | 4,850       | 6,333  |
| 1995   | 24  | 1,589 | 2,185  | 3,798  |          | 17      | 2,371   | 3,797    | 3,814       | 4,451  |
| 1996   | 80  | 2,173 | 6,408  | 8,660  |          | 3       | 3,502   | 8,414    | 8,663       | 12,305 |
| 1997   | 40  | 1,974 | 4,151  | 6,165  |          | 49      | 2,499   | 6,165    | 6,214       | 8,358  |
| 1998   | 137 | 2,452 | 4,670  | 7,259  |          | 4       | 3,033   | 7,370    | 7,263       | 9,416  |
| 1999   | 102 | 864   | 4,568  | 5,534  |          | 1       | 1,570   | 5,515    | 5,535       | 7,341  |
| 2000   | 48  | 1,565 | 6,224  | 7,837  |          | 5       | 2,053   | 7,837    | 7,842       | 11,335 |
| 2001   | 14  | 730   | 2,900  | 3,645  |          | 10      | 768     | 3,645    | 3,655       | 5,662  |
| 2002   | 0   | 24    | 11,239 | 11,263 |          | 2       | 15      | 11,243   | 11,265      | 15,435 |
| 2003   | 0   | 10    | 6,325  | 6,334  |          | 1       | 102     | 6,330    | 6,335       | 8,871  |
| 2004   | 0   | 88    | 3,993  | 4,081  |          | 0       | 142     | 4,079    | 4,081       | 6,491  |
| 2005   | 0   | 229   | 5,926  | 6,155  |          | 0       | 626     | 5,701    | 6,155       | 7,475  |
| 2006   | 0   | 115   | 8,170  | 8,285  |          | 3       | 239     | 8,140    | 8,288       | 10,369 |
| 2007   | 8   | 135   | 9,557  | 9,699  |          | 1       | 184     | 9,686    | 9,701       | 13,317 |
| 2008   | 0   | 366   | 8,569  | 8,935  |          | 0       | 149     | 8,935    | 8,935       | 11,821 |

Table IV-5. Catch in RCA 5 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 5 |     |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 0   | 13,976 | 1,018  | 14,994 | 3        | 14,868  | 14,994  | 14,997   | 16,411      | 91.4 |
| 1992   | 0   | 27     | 5,014  | 5,041  | 0        | 362     | 5,041   | 5,041    | 30,612      | 16.5 |
| 1993   | 0   | 221    | 22,726 | 22,947 | 0        | 1,174   | 22,944  | 22,947   | 37,537      | 61.1 |
| 1994   | 0   | 4      | 7,282  | 7,286  | 0        | 19      | 7,286   | 7,286    | 14,507      | 50.2 |
| 1995   | 0   | 215    | 3,709  | 3,925  | 0        | 221     | 3,925   | 3,925    | 12,642      | 31.0 |
| 1996   | 2   | 26     | 14,475 | 14,503 | 1        | 63      | 14,480  | 14,504   | 28,078      | 51.7 |
| 1997   | 1   | 18     | 9,689  | 9,708  | 0        | 26      | 9,708   | 9,709    | 16,884      | 57.5 |
| 1998   | 4   | 264    | 5,655  | 5,924  | 0        | 329     | 5,924   | 5,924    | 12,131      | 48.8 |
| 1999   | 5   | 5      | 3,650  | 3,660  | 0        | 7       | 3,660   | 3,660    | 14,677      | 24.9 |
| 2000   | 0   | 4      | 1,743  | 1,747  | 0        | 4       | 1,747   | 1,747    | 13,773      | 12.7 |
| 2001   | 129 | 85     | 188    | 402    | 0        | 214     | 402     | 402      | 6,890       | 5.8  |
| 2002   | 0   | 226    | 0      | 226    | 0        | 226     | 226     | 226      | 4,147       | 5.4  |
| 2003   | 0   | 56     | 336    | 392    | 1        | 240     | 392     | 392      | 6,149       | 6.4  |
| 2004   | 0   | 50     | 61     | 111    | 0        | 83      | 111     | 111      | 3,559       | 3.1  |
| 2005   | 0   | 135    | 272    | 407    | 1        | 345     | 305     | 408      | 3,421       | 11.9 |
| 2006   | 0   | 7      | 350    | 357    | 0        | 223     | 224     | 357      | 4,280       | 8.3  |
| 2007   | 0   | 94     | 315    | 409    | 0        | 156     | 409     | 409      | 20,298      | 2.0  |
| 2008   | 0   | 2      | 194    | 196    | 0        | 2       | 195     | 196      | 18,650      | 1.0  |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 5 |     |      |       |       |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 2   | 273  | 880   | 1,155 | 1        | 1,110   | 296     | 1,177    | 1,298       | 90.7 |
| 1992  | 0   | 1    | 214   | 215   | 22       | 124     | 151     | 237      | 535         | 44.3 |
| 1993  | 0   | 5    | 626   | 631   | 10       | 463     | 262     | 640      | 819         | 78.2 |
| 1994  | 0   | 15   | 770   | 784   | 33       | 635     | 460     | 817      | 981         | 83.3 |
| 1995  | 0   | 5    | 504   | 508   | 14       | 427     | 442     | 522      | 689         | 75.9 |
| 1996  | 0   | 13   | 834   | 847   | 14       | 800     | 71      | 861      | 921         | 93.5 |
| 1997  | 0   | 13   | 475   | 488   | 3        | 411     | 97      | 491      | 645         | 76.2 |
| 1998  | 0   | 10   | 101   | 111   | 14       | 72      | 109     | 125      | 283         | 44.3 |
| 1999  | 0   | 8    | 142   | 150   | 5        | 30      | 146     | 155      | 255         | 60.7 |
| 2000  | 0   | 3    | 185   | 188   | 3        | 116     | 94      | 192      | 373         | 51.4 |
| 2001  | 1   | 31   | 183   | 215   | 20       | 85      | 214     | 235      | 307         | 76.6 |
| 2002  | 0   | 56   | 319   | 375   | 33       | 151     | 376     | 408      | 599         | 68.2 |
| 2003  | 0   | 17   | 325   | 342   | 45       | 202     | 325     | 388      | 533         | 72.7 |
| 2004  | 0   | 79   | 117   | 196   | 14       | 94      | 194     | 210      | 369         | 57.1 |
| 2005  | 0   | 59   | 263   | 323   | 37       | 260     | 178     | 359      | 413         | 87.1 |
| 2006  | 0   | 59   | 214   | 272   | 36       | 235     | 109     | 309      | 420         | 73.6 |
| 2007  | 0   | 30   | 109   | 139   | 32       | 68      | 142     | 171      | 360         | 47.5 |
| 2008  | 0   | 838  | 1,036 | 1,874 | 8        | 1,782   | 686     | 1,882    | 1,998       | 94.2 |

Table IV-6. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 6. The SSLCZ critical habitat foraging area is included in this Area.

| Pollock Catch by Zones 1991-2008 in Area 6 |     |        |         |         |          |         |         | Total CH | Total Catch | CH % |
|--|-----|--------|---------|---------|----------|---------|---------|----------|-------------|------|
| Year                                       | 0-3 | 3-10   | 10-20   | 0-20    | Foraging | Rookery | Haulout |          |             |      |
| 1991                                       | 394 | 48,875 | 316,913 | 366,182 | 408,503  | 240,704 | 279,374 | 774,685  | 1,543,509   | 50.2 |
| 1992                                       | 0   | 8,695  | 132,442 | 141,137 | 437,431  | 59,599  | 103,928 | 578,568  | 1,399,239   | 41.3 |
| 1993                                       | 362 | 10,043 | 103,691 | 114,096 | 539,653  | 55,050  | 73,721  | 653,750  | 1,327,960   | 49.2 |
| 1994                                       | 414 | 11,542 | 114,004 | 125,961 | 597,813  | 98,028  | 66,263  | 723,774  | 1,333,405   | 54.3 |
| 1995                                       | 289 | 12,045 | 132,150 | 144,484 | 587,917  | 142,887 | 55,420  | 732,401  | 1,268,115   | 57.8 |
| 1996                                       | 75  | 10,111 | 101,098 | 111,284 | 402,444  | 102,385 | 52,036  | 513,727  | 1,194,911   | 43.0 |
| 1997                                       | 118 | 7,395  | 66,439  | 73,951  | 437,863  | 62,113  | 44,471  | 511,814  | 1,126,862   | 45.4 |
| 1998                                       | 108 | 9,147  | 88,985  | 98,241  | 430,290  | 67,112  | 65,185  | 528,531  | 1,102,225   | 48.0 |
| 1999                                       | 0   | 476    | 5,564   | 6,040   | 314,205  | 1,921   | 5,267   | 320,246  | 994,545     | 32.2 |
| 2000                                       | 8   | 1,947  | 25,533  | 27,488  | 165,979  | 1,827   | 26,611  | 193,467  | 1,133,686   | 17.1 |
| 2001                                       | 227 | 10,752 | 226,128 | 237,107 | 342,318  | 176,300 | 138,380 | 579,425  | 1,389,959   | 41.7 |
| 2002                                       | 129 | 12,148 | 168,663 | 180,940 | 541,991  | 143,232 | 110,592 | 722,931  | 1,481,865   | 48.8 |
| 2003                                       | 126 | 14,365 | 185,766 | 200,258 | 468,478  | 134,578 | 158,692 | 668,735  | 1,492,079   | 44.8 |
| 2004                                       | 0   | 10,561 | 105,710 | 116,271 | 492,337  | 68,146  | 95,211  | 608,609  | 1,482,910   | 41.0 |
| 2005                                       | 0   | 9,004  | 80,915  | 89,919  | 365,081  | 54,063  | 74,488  | 455,000  | 1,486,963   | 30.6 |
| 2006                                       | 0   | 7,110  | 117,441 | 124,551 | 276,173  | 83,201  | 87,422  | 400,724  | 1,494,547   | 26.8 |
| 2007                                       | 0   | 2,653  | 120,356 | 123,009 | 300,327  | 92,532  | 84,130  | 423,336  | 1,352,127   | 31.3 |
| 2008                                       | 0   | 5,708  | 67,120  | 72,829  | 196,359  | 49,670  | 45,254  | 246,522  | 992,601     | 24.8 |

| Pacific Cod Catch by Zones 1991-2008 in Area 6 |     |       |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|-------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 335 | 7,368 | 13,679 | 21,382 | 35,634   | 14,807  | 19,144  | 57,016   | 211,567     | 26.9 |
| 1992   | 220 | 4,100 | 9,671  | 13,991 | 18,808   | 8,233   | 10,893  | 32,800   | 167,004     | 19.6 |
| 1993   | 335 | 2,789 | 6,743  | 9,867  | 32,193   | 5,174   | 8,601   | 42,060   | 134,356     | 31.3 |
| 1994   | 27  | 6,361 | 10,660 | 17,049 | 43,098   | 11,475  | 15,547  | 60,147   | 173,739     | 34.6 |
| 1995   | 306 | 7,275 | 16,660 | 24,241 | 51,318   | 18,433  | 21,266  | 75,559   | 230,016     | 32.8 |
| 1996   | 454 | 8,142 | 19,380 | 27,976 | 45,198   | 22,345  | 23,930  | 73,174   | 207,645     | 35.2 |
| 1997   | 97  | 6,340 | 21,553 | 27,991 | 48,265   | 19,333  | 24,912  | 76,256   | 232,144     | 32.8 |
| 1998   | 409 | 5,751 | 16,480 | 22,640 | 24,461   | 12,827  | 20,698  | 47,101   | 161,037     | 29.2 |
| 1999   | 44  | 3,906 | 15,805 | 19,756 | 25,002   | 12,618  | 17,452  | 44,758   | 149,538     | 29.9 |
| 2000   | 51  | 5,658 | 16,368 | 22,077 | 29,446   | 12,989  | 20,081  | 51,523   | 176,600     | 29.2 |
| 2001   | 26  | 3,652 | 16,247 | 19,926 | 22,097   | 11,960  | 18,583  | 42,023   | 141,858     | 29.6 |
| 2002   | 49  | 3,382 | 12,890 | 16,321 | 24,179   | 11,816  | 14,412  | 40,499   | 158,508     | 25.6 |
| 2003   | 112 | 9,178 | 15,070 | 24,360 | 25,983   | 18,341  | 22,202  | 50,342   | 179,472     | 28.1 |
| 2004   | 22  | 7,739 | 14,863 | 22,625 | 29,517   | 16,514  | 20,462  | 52,142   | 184,002     | 28.3 |
| 2005   | 0   | 5,327 | 9,882  | 15,209 | 30,729   | 9,771   | 13,704  | 45,938   | 186,827     | 24.6 |
| 2006   | 8   | 4,953 | 8,365  | 13,326 | 24,188   | 8,608   | 12,091  | 37,514   | 175,226     | 21.4 |
| 2007   | 3   | 1,470 | 9,241  | 10,715 | 24,089   | 6,521   | 9,505   | 34,804   | 141,879     | 24.5 |
| 2008   | 24  | 2,457 | 7,732  | 10,213 | 22,659   | 5,468   | 9,176   | 32,872   | 140,492     | 23.4 |

Table IV-6. Catch in RCA 6 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 6 |     |       |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-----|-------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 0   | 1,071 | 4,480  | 5,552  | 10       | 5,469   | 2,125   | 5,562    | 5,703       | 97.5 |
| 1992   | 0   | 7     | 14,979 | 14,986 | 128      | 14,917  | 2,963   | 15,114   | 16,206      | 93.3 |
| 1993   | 0   | 131   | 2,783  | 2,914  | 9        | 2,878   | 82      | 2,923    | 3,156       | 92.6 |
| 1994   | 0   | 59    | 2,347  | 2,406  | 98       | 2,401   | 23      | 2,504    | 2,562       | 97.7 |
| 1995   | 1   | 125   | 225    | 351    | 72       | 343     | 227     | 422      | 438         | 96.5 |
| 1996   | 0   | 326   | 1,474  | 1,799  | 89       | 1,775   | 610     | 1,888    | 1,957       | 96.5 |
| 1997   | 0   | 40    | 421    | 461    | 14       | 404     | 250     | 475      | 490         | 97.0 |
| 1998   | 0   | 112   | 894    | 1,007  | 39       | 1,004   | 741     | 1,045    | 1,065       | 98.1 |
| 1999   | 0   | 6     | 2,107  | 2,113  | 62       | 2,113   | 1,963   | 2,175    | 2,314       | 94.0 |
| 2000   | 0   | 0     | 110    | 110    | 0        | 107     | 24      | 110      | 216         | 51.1 |
| 2001   | 1   | 3     | 195    | 199    | 1        | 195     | 126     | 200      | 215         | 93.1 |
| 2002   | 0   | 29    | 224    | 253    | 9        | 252     | 129     | 262      | 315         | 83.3 |
| 2003   | 6   | 419   | 4,440  | 4,865  | 374      | 4,840   | 3,747   | 5,239    | 5,462       | 95.9 |
| 2004   | 0   | 504   | 5,009  | 5,513  | 623      | 5,508   | 4,584   | 6,136    | 6,535       | 93.9 |
| 2005   | 0   | 694   | 2,444  | 3,138  | 95       | 3,089   | 2,760   | 3,233    | 3,523       | 91.8 |
| 2006   | 0   | 410   | 2,009  | 2,418  | 124      | 2,296   | 2,176   | 2,543    | 3,142       | 80.9 |
| 2007   | 0   | 402   | 2080   | 2482   | 484      | 2,479   | 2,320   | 2,966    | 3,025       | 98.0 |
| 2008   | 0   | 49    | 353    | 402    | 6        | 385     | 389     | 408      | 447         | 91.2 |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 6 |     |       |       |       |          |         |         | Total CH | Total Catch | CH % |
|---|-----|-------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 5   | 821   | 1,155 | 1,980 | 1,539    | 1,712   | 1,550   | 5,367    | 18,860      | 28.5 |
| 1992  | 0   | 66    | 957   | 1,023 | 678      | 588     | 740     | 1,701    | 11,229      | 15.1 |
| 1993  | 0   | 86    | 826   | 912   | 1,492    | 719     | 360     | 2,405    | 8,143       | 29.5 |
| 1994  | 14  | 443   | 1,862 | 2,319 | 2,598    | 1,806   | 1,881   | 4,917    | 12,933      | 38.0 |
| 1995  | 1   | 151   | 1,496 | 1,648 | 2,652    | 1,403   | 896     | 4,300    | 8,424       | 51.0 |
| 1996  | 0   | 261   | 2,061 | 2,322 | 4,204    | 2,087   | 952     | 6,526    | 13,415      | 48.6 |
| 1997  | 2   | 141   | 807   | 950   | 2,589    | 608     | 515     | 3,538    | 9,673       | 36.6 |
| 1998  | 0   | 237   | 2,634 | 2,871 | 3,156    | 2,568   | 1,297   | 6,027    | 15,897      | 37.9 |
| 1999  | 3   | 276   | 2,371 | 2,650 | 2,211    | 2,493   | 1,390   | 4,862    | 11,330      | 42.9 |
| 2000  | 1   | 66    | 1,362 | 1,429 | 2,911    | 1,215   | 853     | 4,340    | 15,556      | 27.9 |
| 2001  | 0   | 82    | 1,694 | 1,777 | 4,253    | 1,258   | 1,088   | 6,030    | 14,937      | 40.4 |
| 2002  | 3   | 113   | 1,756 | 1,872 | 4,147    | 1,616   | 1,010   | 6,018    | 13,986      | 43.0 |
| 2003  | 0   | 74    | 2,255 | 2,329 | 3,550    | 1,904   | 1,432   | 5,879    | 11,187      | 52.6 |
| 2004  | 1   | 236   | 3,507 | 3,744 | 7,183    | 3,546   | 2,432   | 10,927   | 17,575      | 62.2 |
| 2005  | 0   | 204   | 1,690 | 1,894 | 3,911    | 1,752   | 1,260   | 5,805    | 13,524      | 42.9 |
| 2006  | 0   | 127   | 1,268 | 1,395 | 3,237    | 1,141   | 875     | 4,632    | 11,936      | 38.8 |
| 2007  | 0   | 108   | 2,028 | 2,136 | 2,820    | 1,711   | 1,537   | 4,956    | 11,248      | 44.1 |
| 2008  | 1   | 4,110 | 3,284 | 7,396 | 3,113    | 7,075   | 6,103   | 10,509   | 19,387      | 54.2 |

Table IV-7. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 7. There is no foraging zone designated for this area.

| Pollock Catch by Zones 1991-2008 in Area 7 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                       | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                       | 164   | 3,251  | 6,228  | 9,643  | 0        | 6,131   | 6,105   | 9,643    | 26,985      | 35.7 |
| 1992                                       | 231   | 1,030  | 3,851  | 5,112  | 0        | 2,602   | 3,203   | 5,112    | 11,758      | 43.5 |
| 1993                                       | 1,537 | 4,049  | 9,966  | 15,553 | 0        | 8,833   | 11,001  | 15,553   | 20,935      | 74.3 |
| 1994                                       | 20    | 2,066  | 5,715  | 7,801  | 0        | 3,084   | 6,511   | 7,801    | 13,845      | 56.3 |
| 1995                                       | 86    | 2,764  | 11,945 | 14,796 | 0        | 9,172   | 8,333   | 14,796   | 26,771      | 55.3 |
| 1996                                       | 614   | 4,544  | 8,993  | 14,151 | 0        | 1,372   | 13,462  | 14,151   | 22,237      | 63.6 |
| 1997                                       | 819   | 7,475  | 3,107  | 11,400 | 0        | 1,225   | 10,891  | 11,400   | 22,964      | 49.6 |
| 1998                                       | 7,786 | 11,317 | 3,558  | 22,661 | 0        | 616     | 22,743  | 22,661   | 28,243      | 80.2 |
| 1999                                       | 1,656 | 8,952  | 6,970  | 17,579 | 0        | 719     | 17,578  | 17,579   | 18,370      | 95.7 |
| 2000                                       | 4     | 137    | 6,345  | 6,486  | 0        | 1,365   | 6,462   | 6,486    | 20,996      | 30.9 |
| 2001                                       | 38    | 888    | 9,774  | 10,700 | 0        | 1,783   | 10,698  | 10,700   | 27,726      | 38.6 |
| 2002                                       | 0     | 4,509  | 3,216  | 7,725  | 0        | 2,123   | 7,723   | 7,725    | 16,944      | 45.6 |
| 2003                                       | 0     | 5,961  | 5,329  | 11,290 | 0        | 1,653   | 11,253  | 11,290   | 14,528      | 77.7 |
| 2004                                       | 0     | 3,728  | 9,469  | 13,197 | 0        | 5       | 13,192  | 13,197   | 20,860      | 63.3 |
| 2005                                       | 920   | 9,274  | 6,439  | 16,633 | 0        | 3       | 16,633  | 16,633   | 26,945      | 61.7 |
| 2006                                       | 0     | 2,643  | 7,087  | 9,730  | 0        | 1,700   | 9,730   | 9,730    | 16,577      | 58.7 |
| 2007                                       | 709   | 2,166  | 4,716  | 7,591  | 0        | 13      | 7,584   | 7,591    | 16,708      | 45.4 |
| 2008                                       | 0     | 6,020  | 3,751  | 9,771  | 0        | 184     | 9,724   | 9,771    | 13,986      | 69.9 |

| Pacific Cod Catch by Zones 1991-2008 in Area 7 |       |        |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|--------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 633   | 10,743 | 14,230 | 25,606 | 0        | 16,915  | 21,234  | 25,606   | 30,146      | 84.9 |
| 1992   | 228   | 5,583  | 21,796 | 27,606 | 0        | 12,620  | 21,210  | 27,606   | 35,168      | 78.5 |
| 1993   | 73    | 6,843  | 7,855  | 14,771 | 0        | 1,172   | 14,692  | 14,771   | 17,109      | 86.3 |
| 1994   | 1,292 | 4,804  | 5,854  | 11,950 | 0        | 4,075   | 11,570  | 11,950   | 13,049      | 91.6 |
| 1995   | 153   | 6,159  | 9,196  | 15,508 | 0        | 7,974   | 11,336  | 15,508   | 19,954      | 77.7 |
| 1996   | 317   | 7,322  | 6,785  | 14,423 | 0        | 7,656   | 13,311  | 14,423   | 18,179      | 79.3 |
| 1997   | 2,857 | 9,765  | 7,068  | 19,689 | 0        | 11,634  | 17,835  | 19,689   | 21,717      | 90.7 |
| 1998   | 297   | 7,809  | 9,609  | 17,714 | 0        | 7,687   | 17,374  | 17,714   | 18,649      | 95.0 |
| 1999   | 687   | 9,494  | 7,053  | 17,234 | 0        | 7,902   | 16,846  | 17,234   | 19,884      | 86.7 |
| 2000   | 64    | 8,393  | 6,241  | 14,697 | 0        | 7,953   | 14,069  | 14,697   | 17,811      | 82.5 |
| 2001   | 131   | 2,467  | 5,961  | 8,559  | 0        | 2,236   | 8,464   | 8,559    | 13,012      | 65.8 |
| 2002   | 9     | 4,554  | 6,008  | 10,571 | 0        | 2,720   | 9,747   | 10,571   | 16,508      | 64.0 |
| 2003   | 18    | 8,662  | 4,877  | 13,557 | 0        | 5,740   | 9,019   | 13,557   | 20,274      | 66.9 |
| 2004   | 0     | 3,604  | 7,938  | 11,542 | 0        | 2,079   | 9,792   | 11,542   | 20,261      | 57.0 |
| 2005   | 0     | 5,973  | 3,857  | 9,831  | 0        | 843     | 9,814   | 9,831    | 18,070      | 54.4 |
| 2006   | 0     | 2,491  | 6,831  | 9,322  | 0        | 1,457   | 9,256   | 9,322    | 15,842      | 58.8 |
| 2007   | 0     | 1,514  | 13,566 | 15,080 | 0        | 3,689   | 11,425  | 15,080   | 21,860      | 69.0 |
| 2008   | 26    | 4,831  | 7,173  | 12,030 | 0        | 5,191   | 9,939   | 12,030   | 18,661      | 64.5 |

Table IV-7. Catch in RCA 7 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 7 |     |      |       |      |          |         |         | Total CH | Total Catch | CH % |
|--|-----|------|-------|------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 0   | 51   | 5     | 56   | 0        | 5       | 52      | 56       | 70          | 80.2 |
| 1992   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 96          | 0.0  |
| 1993   | 0   | 0    | 87    | 87   | 0        | 78      | 9       | 87       | 115         | 75.5 |
| 1994   | 3   | 12   | 167   | 182  | 0        | 174     | 9       | 182      | 234         | 77.9 |
| 1995   | 0   | 19   | 106   | 126  | 0        | 96      | 33      | 126      | 228         | 55.3 |
| 1996   | 0   | 0    | 113   | 113  | 0        | 108     | 7       | 113      | 400         | 28.2 |
| 1997   | 0   | 1    | 0     | 1    | 0        | 0       | 1       | 1        | 5           | 25.0 |
| 1998   | 1   | 0    | 112   | 113  | 0        | 112     | 113     | 113      | 114         | 99.2 |
| 1999   | 106 | 12   | 0     | 118  | 0        | 0       | 118     | 118      | 255         | 46.5 |
| 2000   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 166         | 0.1  |
| 2001   | 0   | 0    | 21    | 22   | 0        | 11      | 10      | 22       | 48          | 44.5 |
| 2002   | 0   | 1    | 15    | 15   | 0        | 0       | 15      | 15       | 54          | 28.5 |
| 2003   | 0   | 100  | 42    | 141  | 0        | 112     | 129     | 141      | 417         | 33.9 |
| 2004   | 0   | 69   | 93    | 162  | 0        | 88      | 75      | 162      | 777         | 20.9 |
| 2005   | 0   | 0    | 120   | 120  | 0        | 27      | 92      | 120      | 410         | 29.2 |
| 2006   | 0   | 0    | 81    | 81   | 0        | 2       | 79      | 81       | 556         | 14.5 |
| 2007   | 0   | 0    | 510   | 510  | 0        | 501     | 9       | 510      | 1,274       | 40.0 |
| 2008   | 0   | 174  | 459   | 633  | 0        | 502     | 327     | 633      | 1,734       | 36.5 |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 7 |     |      |       |       |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 7   | 124  | 197   | 328   | 0        | 123     | 310     | 328      | 2,294       | 14.3 |
| 1992  | 16  | 266  | 643   | 925   | 0        | 292     | 808     | 925      | 1,553       | 59.6 |
| 1993  | 4   | 127  | 204   | 336   | 0        | 20      | 329     | 336      | 1,532       | 21.9 |
| 1994  | 123 | 202  | 535   | 860   | 0        | 363     | 764     | 860      | 1,152       | 74.7 |
| 1995  | 6   | 78   | 224   | 307   | 0        | 36      | 292     | 307      | 1,204       | 25.5 |
| 1996  | 3   | 96   | 190   | 289   | 0        | 59      | 282     | 289      | 1,795       | 16.1 |
| 1997  | 2   | 52   | 206   | 260   | 0        | 68      | 221     | 260      | 2,109       | 12.3 |
| 1998  | 25  | 282  | 116   | 424   | 0        | 72      | 409     | 424      | 2,083       | 20.3 |
| 1999  | 38  | 607  | 733   | 1,378 | 0        | 46      | 1,365   | 1,378    | 2,917       | 47.3 |
| 2000  | 2   | 73   | 214   | 289   | 0        | 85      | 277     | 289      | 2,641       | 10.9 |
| 2001  | 5   | 229  | 632   | 866   | 0        | 79      | 847     | 866      | 3,948       | 21.9 |
| 2002  | 0   | 108  | 200   | 307   | 0        | 11      | 304     | 307      | 2,377       | 12.9 |
| 2003  | 0   | 447  | 1,872 | 2,320 | 0        | 270     | 2,209   | 2,320    | 6,497       | 35.7 |
| 2004  | 0   | 535  | 610   | 1,146 | 0        | 102     | 1,084   | 1,146    | 2,573       | 44.5 |
| 2005  | 31  | 768  | 293   | 1,092 | 0        | 23      | 1,089   | 1,092    | 2,299       | 47.5 |
| 2006  | 0   | 245  | 194   | 439   | 0        | 8       | 432     | 439      | 1,765       | 24.9 |
| 2007  | 95  | 270  | 542   | 908   | 0        | 35      | 887     | 908      | 2,723       | 33.3 |
| 2008  | 0   | 616  | 383   | 999   | 0        | 200     | 837     | 999      | 2,919       | 34.2 |

Table IV-8. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 8.

| Pollock Catch by Zones 1991-2008 in Area 8 |       |       |        |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|-------|--------|--------|----------|---------|---------|----------|-------------|------|
| Year                                       | 0-3   | 3-10  | 10-20  | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991                                       | 53    | 867   | 3,745  | 4,665  | 2,130    | 120     | 4,581   | 6,795    | 7,705       | 88.2 |
| 1992                                       | 2     | 2,446 | 7,424  | 9,872  | 4,873    | 2,607   | 9,825   | 14,745   | 17,237      | 85.5 |
| 1993                                       | 1,006 | 6,532 | 6,337  | 13,874 | 1,614    | 407     | 13,864  | 15,489   | 23,788      | 65.1 |
| 1994                                       | 0     | 1,368 | 7,567  | 8,935  | 6,604    | 365     | 8,714   | 15,539   | 22,237      | 69.9 |
| 1995                                       | 18    | 379   | 5,667  | 6,064  | 6,197    | 391     | 5,791   | 12,261   | 13,080      | 93.7 |
| 1996                                       | 13    | 1,463 | 5,269  | 6,745  | 4,718    | 616     | 6,424   | 11,463   | 12,297      | 93.2 |
| 1997                                       | 1,403 | 7,042 | 12,147 | 20,592 | 9,348    | 154     | 20,582  | 29,940   | 32,812      | 91.2 |
| 1998                                       | 2,081 | 7,538 | 13,269 | 22,888 | 12,155   | 4       | 22,885  | 35,043   | 48,891      | 71.7 |
| 1999                                       | 0     | 787   | 15,060 | 15,848 | 14,941   | 46      | 15,731  | 30,789   | 38,312      | 80.4 |
| 2000                                       | 198   | 7,911 | 3,355  | 11,464 | 149      | 18      | 11,456  | 11,614   | 11,722      | 99.1 |
| 2001                                       | 0     | 456   | 13,974 | 14,429 | 783      | 7       | 14,427  | 15,212   | 15,404      | 98.8 |
| 2002                                       | 0     | 1,548 | 3,892  | 5,440  | 2,424    | 1       | 5,439   | 7,863    | 18,337      | 42.9 |
| 2003                                       | 0     | 292   | 13,559 | 13,851 | 341      | 7       | 13,850  | 14,192   | 19,455      | 72.9 |
| 2004                                       | 0     | 299   | 14,741 | 15,041 | 2,287    | 1       | 15,040  | 17,328   | 19,646      | 88.2 |
| 2005                                       | 0     | 2,020 | 16,953 | 18,973 | 467      | 1       | 18,972  | 19,440   | 27,370      | 71.0 |
| 2006                                       | 0     | 1,227 | 18,751 | 19,979 | 476      | 11      | 19,979  | 20,455   | 25,831      | 79.2 |
| 2007                                       | 0     | 5,550 | 8,179  | 13,729 | 407      | 4       | 13,729  | 14,136   | 17,381      | 81.3 |
| 2008                                       | 0     | 513   | 6,922  | 7,434  | 10,766   | 34      | 7,432   | 10,194   | 17,225      | 59.2 |

| Pacific Cod Catch by Zones 1991-2008 in Area 8 |       |       |       |        |          |         |         | Total CH | Total Catch | CH % |
|--|-------|-------|-------|--------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3   | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 2,226 | 3,237 | 8,117 | 13,580 | 731      | 6,477   | 7,398   | 14,311   | 16,871      | 84.8 |
| 1992   | 15    | 1,012 | 8,452 | 9,480  | 694      | 6,070   | 3,625   | 10,174   | 15,076      | 67.5 |
| 1993   | 92    | 1,067 | 3,065 | 4,224  | 1,993    | 1,239   | 3,250   | 6,217    | 9,096       | 68.3 |
| 1994   | 0     | 69    | 6,675 | 6,744  | 480      | 5,153   | 1,897   | 7,224    | 9,182       | 78.7 |
| 1995   | 279   | 886   | 7,683 | 8,849  | 1,124    | 6,046   | 2,826   | 9,973    | 12,021      | 83.0 |
| 1996   | 109   | 590   | 9,463 | 10,161 | 2,833    | 7,670   | 2,890   | 12,995   | 19,692      | 66.0 |
| 1997   | 141   | 734   | 6,582 | 7,458  | 1,433    | 4,082   | 4,473   | 8,891    | 10,613      | 83.8 |
| 1998   | 47    | 443   | 6,319 | 6,809  | 2,314    | 3,426   | 3,507   | 9,123    | 10,772      | 84.7 |
| 1999   | 82    | 442   | 1,974 | 2,498  | 2,682    | 253     | 2,380   | 5,180    | 11,965      | 43.3 |
| 2000   | 12    | 388   | 1,119 | 1,519  | 699      | 82      | 1,454   | 2,218    | 5,702       | 38.9 |
| 2001   | 0     | 1     | 1,191 | 1,192  | 696      | 360     | 1,054   | 1,888    | 4,428       | 42.6 |
| 2002   | 57    | 84    | 679   | 820    | 842      | 237     | 760     | 1,662    | 6,524       | 25.5 |
| 2003   | 0     | 72    | 3,994 | 4,066  | 172      | 411     | 3,715   | 4,238    | 6,983       | 60.7 |
| 2004   | 160   | 1,220 | 2,085 | 3,465  | 1,155    | 61      | 3,462   | 4,620    | 7,346       | 62.9 |
| 2005   | 0     | 23    | 904   | 927    | 488      | 73      | 925     | 1,415    | 1,630       | 86.8 |
| 2006   | 0     | 8     | 792   | 800    | 1,766    | 175     | 782     | 2,566    | 3,935       | 65.2 |
| 2007   | 0     | 15    | 36    | 52     | 2,175    | 21      | 51      | 2,226    | 4,063       | 54.8 |
| 2008   | 0     | 35    | 550   | 585    | 8,006    | 35      | 573     | 8,591    | 11,481      | 74.8 |

Table IV-8. Catch in RCA 8 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 8 |     |      |       |       |          |         |         | Total CH | Total Catch | CH %  |
|--|-----|------|-------|-------|----------|---------|---------|----------|-------------|-------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |       |
| 1991   | 0   | 13   | 1     | 14    | 0        | 1       | 13      | 14       | 14          | 100.0 |
| 1992   | 0   | 0    | 0     | 0     | 0        | 0       | 0       | 0        | 14          | 0.0   |
| 1993   | 0   | 0    | 1,074 | 1,074 | 0        | 1,119   | 0       | 1,074    | 2,017       | 53.2  |
| 1994   | 0   | 0    | 619   | 619   | 0        | 619     | 0       | 619      | 875         | 70.8  |
| 1995   | 2   | 0    | 36    | 38    | 0        | 36      | 2       | 38       | 332         | 11.4  |
| 1996   | 0   | 0    | 4     | 4     | 0        | 4       | 0       | 4        | 4           | 99.2  |
| 1997   | 0   | 2    | 1     | 4     | 0        | 1       | 2       | 4        | 5           | 75.2  |
| 1998   | 0   | 0    | 6     | 6     | 0        | 6       | 6       | 6        | 6           | 100.0 |
| 1999   | 0   | 0    | 0     | 0     | 0        | 0       | 0       | 0        | 0           | 5.4   |
| 2000   | 0   | 0    | 0     | 0     | 1        | 0       | 0       | 1        | 1           | 100.0 |
| 2001   | 0   | 0    | 4     | 4     | 0        | 4       | 2       | 4        | 6           | 61.4  |
| 2002   | 0   | 0    | 0     | 0     | 0        | 0       | 0       | 0        | 5           | 7.1   |
| 2003   | 0   | 0    | 3     | 3     | 0        | 2       | 1       | 3        | 138         | 1.9   |
| 2004   | 0   | 0    | 2     | 2     | 0        | 2       | 0       | 2        | 28          | 7.7   |
| 2005   | 0   | 0    | 2     | 2     | 0        | 2       | 0       | 2        | 379         | 0.5   |
| 2006   | 0   | 0    | 3     | 3     | 0        | 0       | 3       | 3        | 269         | 1.0   |
| 2007   | 0   | 0    | 0     | 0     | 0        | 0       | 0       | 0        | 154         | 0.1   |
| 2008   | 0   | 0    | 0     | 0     | 0        | 0       | 0       | 0        | 316         | 0.1   |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 8 |     |      |       |       |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|-------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20  | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 2   | 29   | 1,019 | 1,050 | 4        | 736     | 830     | 1,055    | 2,117       | 49.8 |
| 1992  | 1   | 110  | 1,149 | 1,260 | 139      | 990     | 971     | 1,400    | 3,524       | 39.7 |
| 1993  | 0   | 23   | 1,040 | 1,063 | 37       | 1,032   | 661     | 1,101    | 3,185       | 34.5 |
| 1994  | 0   | 86   | 3,602 | 3,687 | 1,482    | 3,068   | 3,462   | 5,169    | 8,418       | 61.4 |
| 1995  | 24  | 36   | 980   | 1,039 | 1,155    | 815     | 741     | 2,194    | 4,773       | 46.0 |
| 1996  | 32  | 794  | 2,605 | 3,431 | 1,824    | 2,097   | 3,254   | 5,255    | 9,224       | 57.0 |
| 1997  | 66  | 390  | 950   | 1,406 | 676      | 600     | 1,164   | 2,082    | 4,448       | 46.8 |
| 1998  | 2   | 223  | 862   | 1,086 | 499      | 311     | 922     | 1,585    | 3,280       | 48.3 |
| 1999  | 1   | 18   | 1,284 | 1,304 | 1,084    | 1,004   | 972     | 2,388    | 4,360       | 54.8 |
| 2000  | 0   | 189  | 1,324 | 1,513 | 58       | 957     | 1,134   | 1,571    | 4,591       | 34.2 |
| 2001  | 0   | 11   | 1,256 | 1,267 | 54       | 396     | 1,003   | 1,321    | 3,873       | 34.1 |
| 2002  | 0   | 115  | 1,503 | 1,618 | 632      | 1,016   | 1,452   | 2,250    | 5,083       | 44.3 |
| 2003  | 0   | 336  | 3,609 | 3,944 | 532      | 1,056   | 3,850   | 4,476    | 8,747       | 51.2 |
| 2004  | 0   | 44   | 723   | 768   | 651      | 188     | 765     | 1,419    | 2,266       | 62.6 |
| 2005  | 0   | 570  | 3,502 | 4,071 | 250      | 384     | 4,048   | 4,322    | 5,645       | 76.6 |
| 2006  | 0   | 166  | 5,880 | 6,046 | 1,024    | 1,015   | 6,020   | 7,070    | 8,397       | 84.2 |
| 2007  | 0   | 75   | 1,535 | 1,610 | 2,272    | 294     | 1,607   | 3,882    | 5,295       | 73.3 |
| 2008  | 0   | 248  | 1,721 | 1,969 | 477      | 27      | 1,963   | 2,446    | 4,253       | 57.5 |

Table IV-9. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 9.

| <b>Pollock Catch by Zones 1991-2008 in Area 9</b> |       |        |        |        |          |         |         | <b>Total CH</b> | <b>Total Catch</b> | <b>CH %</b> |
|---|-------|--------|--------|--------|----------|---------|---------|-----------------|--------------------|-------------|
| Year  | 0-3   | 3-10   | 10-20  | 0-20   | Foraging | Rookery | Haulout |                 |                    |             |
| 1991  | 2,616 | 14,928 | 20,825 | 38,369 | 1,064    | 1,347   | 37,873  | 39,433          | 46,287             | 85.2        |
| 1992  | 1,763 | 8,629  | 32,806 | 43,197 | 621      | 91      | 43,181  | 43,818          | 53,850             | 81.4        |
| 1993  | 4,690 | 19,049 | 32,884 | 56,623 | 5,270    | 10,950  | 55,837  | 61,893          | 63,221             | 97.9        |
| 1994  | 1,836 | 20,114 | 34,108 | 56,058 | 2,509    | 15,663  | 55,524  | 58,567          | 60,933             | 96.1        |
| 1995  | 19    | 2,114  | 19,610 | 21,743 | 172      | 1,756   | 21,738  | 21,915          | 23,255             | 94.2        |
| 1996  | 103   | 1,768  | 7,798  | 9,668  | 7        | 2,281   | 9,668   | 9,675           | 11,803             | 82.0        |
| 1997  | 303   | 5,121  | 13,067 | 18,491 | 415      | 1,103   | 18,490  | 18,906          | 20,405             | 92.7        |
| 1998  | 521   | 10,182 | 19,690 | 30,393 | 478      | 3,114   | 30,128  | 30,871          | 33,348             | 92.6        |
| 1999  | 200   | 5,021  | 22,366 | 27,587 | 62       | 2,931   | 27,587  | 27,650          | 28,876             | 95.8        |
| 2000  | 2     | 3,252  | 15,345 | 18,599 | 3,982    | 8,340   | 18,553  | 22,581          | 35,074             | 64.4        |
| 2001  | 23    | 4,996  | 15,431 | 20,450 | 697      | 6,589   | 20,436  | 21,147          | 22,258             | 95.0        |
| 2002  | 0     | 252    | 10,991 | 11,244 | 351      | 1,251   | 11,233  | 11,595          | 12,951             | 89.5        |
| 2003  | 0     | 1,668  | 8,964  | 10,631 | 202      | 2,534   | 10,631  | 10,833          | 11,229             | 96.5        |
| 2004  | 1     | 849    | 17,832 | 18,682 | 66       | 6,147   | 18,715  | 18,748          | 19,296             | 97.2        |
| 2005  | 0     | 2,589  | 15,995 | 18,584 | 308      | 6,221   | 18,580  | 18,892          | 19,147             | 98.7        |
| 2006  | 164   | 2,517  | 12,972 | 15,653 | 53       | 2,417   | 15,653  | 15,707          | 17,110             | 91.8        |
| 2007  | 0     | 1,446  | 13,473 | 14,920 | 43       | 6,504   | 15,046  | 14,963          | 16,184             | 92.5        |
| 2008  | 162   | 1,205  | 11,710 | 13,077 | 20       | 4,456   | 13,073  | 13,084          | 16,314             | 80.2        |

| <b>Pacific Cod Catch by Zones 1991-2008 in Area 9</b> |     |       |       |        |          |         |         | <b>Total CH</b> | <b>Total Catch</b> | <b>CH %</b> |
|---|-----|-------|-------|--------|----------|---------|---------|-----------------|--------------------|-------------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |                 |                    |             |
| 1991  | 71  | 4,604 | 7,894 | 12,569 | 801      | 3,416   | 11,789  | 13,370          | 24,458             | 54.7        |
| 1992  | 167 | 5,142 | 8,977 | 14,286 | 30       | 3,399   | 13,564  | 14,316          | 21,154             | 67.7        |
| 1993  | 84  | 2,982 | 4,536 | 7,602  | 49       | 1,297   | 6,547   | 7,650           | 22,809             | 33.5        |
| 1994  | 28  | 1,734 | 5,699 | 7,461  | 210      | 620     | 7,336   | 7,671           | 15,750             | 48.7        |
| 1995  | 135 | 3,367 | 8,423 | 11,925 | 1,210    | 2,320   | 11,139  | 13,135          | 27,837             | 47.2        |
| 1996  | 26  | 2,492 | 7,444 | 9,961  | 12       | 2,242   | 9,612   | 9,974           | 19,413             | 51.4        |
| 1997  | 169 | 7,141 | 9,367 | 16,677 | 75       | 910     | 16,147  | 16,751          | 29,899             | 56.0        |
| 1998  | 24  | 4,484 | 8,273 | 12,781 | 33       | 2,515   | 12,227  | 12,814          | 29,904             | 42.9        |
| 1999  | 40  | 4,751 | 7,566 | 12,357 | 0        | 1,811   | 11,930  | 12,357          | 30,377             | 40.7        |
| 2000  | 19  | 8,794 | 3,661 | 12,475 | 27       | 4,906   | 12,336  | 12,502          | 25,856             | 48.4        |
| 2001  | 202 | 3,042 | 7,800 | 11,045 | 398      | 3,974   | 7,906   | 11,442          | 21,895             | 52.3        |
| 2002  | 3   | 508   | 3,790 | 4,300  | 47       | 226     | 4,179   | 4,347           | 15,487             | 28.1        |
| 2003  | 0   | 4,565 | 4,096 | 8,660  | 236      | 337     | 8,577   | 8,897           | 22,761             | 39.1        |
| 2004  | 87  | 7,214 | 7,031 | 14,332 | 129      | 1,113   | 14,289  | 14,461          | 27,111             | 53.3        |
| 2005  | 163 | 7,489 | 4,098 | 11,751 | 198      | 5,290   | 11,327  | 11,948          | 24,380             | 49.0        |
| 2006  | 127 | 1,817 | 4,410 | 6,355  | 37       | 910     | 6,210   | 6,392           | 19,968             | 32.0        |
| 2007  | 13  | 3,426 | 8,283 | 11,721 | 0        | 1,449   | 11,553  | 11,721          | 21,968             | 53.4        |
| 2008  | 24  | 2,971 | 8,721 | 11,716 | 13       | 2,546   | 11,447  | 11,728          | 24,226             | 48.4        |

Table IV-9. Catch in RCA 9 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 9 |     |      |       |      |          |         |         | Total CH | Total Catch | CH %  |
|--|-----|------|-------|------|----------|---------|---------|----------|-------------|-------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |       |
| 1991   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0   |
| 1992   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 4           | 0.0   |
| 1993   | 0   | 8    | 0     | 8    | 0        | 0       | 8       | 8        | 8           | 97.2  |
| 1994   | 0   | 0    | 1     | 1    | 0        | 0       | 1       | 1        | 2           | 38.1  |
| 1995   | 0   | 21   | 1     | 23   | 0        | 0       | 23      | 23       | 38          | 59.9  |
| 1996   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 4           | 0.0   |
| 1997   | 0   | 3    | 0     | 3    | 0        | 0       | 3       | 3        | 3           | 100.0 |
| 1998   | 0   | 0    | 24    | 24   | 0        | 0       | 24      | 24       | 32          | 74.7  |
| 1999   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 1           | 0.0   |
| 2000   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0   |
| 2001   | 0   | 0    | 1     | 1    | 0        | 0       | 1       | 1        | 6           | 13.1  |
| 2002   | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 24          | 0.0   |
| 2003   | 0   | 0    | 1     | 1    | 0        | 0       | 1       | 1        | 21          | 3.7   |
| 2004   | 0   | 1    | 1     | 1    | 0        | 0       | 1       | 1        | 9           | 15.7  |
| 2005   | 0   | 1    | 1     | 1    | 0        | 0       | 1       | 1        | 5           | 25.2  |
| 2006   | 0   | 8    | 12    | 20   | 0        | 0       | 20      | 20       | 45          | 43.8  |
| 2007   | 0   | 12   | 3     | 15   | 0        | 0       | 15      | 15       | 21          | 69.5  |
| 2008   | 0   | 0    | 0     | 1    | 0        | 0       | 1       | 1        | 4           | 14.8  |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 9 |     |       |       |        |          |         |         | Total CH | Total Catch | CH % |
|---|-----|-------|-------|--------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 7   | 207   | 764   | 979    | 0        | 81      | 955     | 1,076    | 11,417      | 9.4  |
| 1992  | 96  | 928   | 2,687 | 3,710  | 48       | 222     | 3,668   | 3,758    | 14,876      | 25.3 |
| 1993  | 39  | 788   | 1,659 | 2,487  | 8        | 343     | 2,393   | 2,494    | 13,101      | 19.0 |
| 1994  | 14  | 758   | 2,356 | 3,128  | 88       | 266     | 3,100   | 3,217    | 12,341      | 26.1 |
| 1995  | 12  | 908   | 1,719 | 2,639  | 20       | 306     | 2,572   | 2,659    | 11,065      | 24.0 |
| 1996  | 25  | 596   | 1,437 | 2,059  | 6        | 188     | 2,034   | 2,065    | 10,239      | 20.2 |
| 1997  | 21  | 1,047 | 2,496 | 3,563  | 326      | 238     | 3,481   | 3,890    | 7,987       | 48.7 |
| 1998  | 7   | 417   | 1,006 | 1,430  | 99       | 352     | 1,196   | 1,529    | 6,175       | 24.8 |
| 1999  | 8   | 336   | 929   | 1,272  | 0        | 267     | 1,271   | 1,272    | 7,192       | 17.7 |
| 2000  | 4   | 1,274 | 1,970 | 3,248  | 41       | 483     | 3,034   | 3,289    | 12,762      | 25.8 |
| 2001  | 3   | 1,390 | 3,096 | 4,488  | 50       | 672     | 4,459   | 4,537    | 9,521       | 47.7 |
| 2002  | 0   | 245   | 2,114 | 2,359  | 77       | 1,063   | 1,914   | 2,436    | 9,785       | 24.9 |
| 2003  | 0   | 910   | 5,740 | 6,650  | 702      | 2,625   | 5,826   | 7,351    | 13,355      | 55.0 |
| 2004  | 0   | 287   | 5,333 | 5,620  | 276      | 1,244   | 4,923   | 5,895    | 10,054      | 58.6 |
| 2005  | 0   | 1,434 | 6,484 | 7,918  | 959      | 872     | 7,524   | 8,877    | 11,486      | 77.3 |
| 2006  | 59  | 3,784 | 6,720 | 10,563 | 1,235    | 190     | 10,570  | 11,798   | 17,087      | 69.0 |
| 2007  | 19  | 3,733 | 6,128 | 9,880  | 0        | 531     | 9,867   | 9,880    | 16,764      | 58.9 |
| 2008  | 0   | 1,560 | 4,639 | 6,199  | 454      | 406     | 6,125   | 6,653    | 22,043      | 30.2 |

Table IV-10. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder by critical habitat zone, 1991-2008 in RCA 10. There is no SSL foraging CH in this area.

| Pollock Catch by Zones 1991-2008 in Area 10 |     |       |       |        |          |         | Total CH | Total Catch | CH %        |
|---|-----|-------|-------|--------|----------|---------|----------|-------------|-------------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20   | Foraging | Rookery | Haulout  |             |             |
| 1991  | 0   | 0     | 193   | 193    | 0        | 0       | 193      | 193         | 5,704 3.4   |
| 1992  | 0   | 9     | 19    | 28     | 0        | 1       | 27       | 28          | 254 10.8    |
| 1993  | 0   | 21    | 46    | 67     | 0        | 5       | 67       | 67          | 689 9.8     |
| 1994  | 1   | 346   | 2,826 | 3,173  | 0        | 17      | 3,172    | 3,173       | 6,880 46.1  |
| 1995  | 0   | 1,700 | 844   | 2,545  | 0        | 2       | 2,544    | 2,545       | 5,857 43.4  |
| 1996  | 0   | 924   | 1,372 | 2,296  | 0        | 2       | 2,179    | 2,296       | 2,961 77.5  |
| 1997  | 0   | 841   | 4,984 | 5,825  | 0        | 0       | 5,691    | 5,825       | 10,451 55.7 |
| 1998  | 0   | 2,229 | 8,688 | 10,917 | 0        | 0       | 10,917   | 10,917      | 13,672 79.8 |
| 1999  | 0   | 481   | 1,566 | 2,047  | 0        | 0       | 2,047    | 2,047       | 5,418 37.8  |
| 2000  | 0   | 414   | 1,561 | 1,975  | 0        | 0       | 1,975    | 1,975       | 4,048 48.8  |
| 2001  | 0   | 0     | 0     | 0      | 0        | 0       | 0        | 0           | 3,943 0.0   |
| 2002  | 0   | 1     | 726   | 727    | 0        | 0       | 727      | 727         | 3,180 22.9  |
| 2003  | 0   | 768   | 2,155 | 2,924  | 0        | 0       | 2,924    | 2,924       | 3,484 83.9  |
| 2004  | 0   | 0     | 748   | 748    | 0        | 0       | 748      | 748         | 1,353 55.3  |
| 2005  | 0   | 412   | 1,954 | 2,366  | 0        | 0       | 2,366    | 2,366       | 3,391 69.8  |
| 2006  | 0   | 576   | 626   | 1,202  | 0        | 0       | 1,202    | 1,202       | 4,237 28.4  |
| 2007  | 0   | 41    | 386   | 427    | 0        | 0       | 427      | 427         | 596 71.6    |
| 2008  | 0   | 0     | 701   | 701    | 0        | 1       | 700      | 701         | 1,166 60.1  |

| Pacific Cod Catch by Zones 1991-2008 in Area 10 |     |       |       |       |          |         | Total CH | Total Catch | CH %       |
|---|-----|-------|-------|-------|----------|---------|----------|-------------|------------|
| Year  | 0-3 | 3-10  | 10-20 | 0-20  | Foraging | Rookery | Haulout  |             |            |
| 1991  | 0   | 0     | 507   | 507   | 0        | 2       | 505      | 507         | 1,063 47.7 |
| 1992  | 123 | 2,182 | 1,744 | 4,049 | 0        | 1,319   | 3,389    | 4,049       | 5,345 75.7 |
| 1993  | 0   | 1,219 | 2,992 | 4,211 | 0        | 0       | 4,211    | 4,211       | 5,708 73.8 |
| 1994  | 104 | 2,055 | 3,036 | 5,195 | 0        | 1,020   | 5,142    | 5,195       | 5,828 89.1 |
| 1995  | 29  | 3,742 | 1,827 | 5,598 | 0        | 45      | 5,675    | 5,598       | 6,466 86.6 |
| 1996  | 52  | 4,855 | 3,409 | 8,315 | 0        | 3,571   | 8,315    | 8,315       | 9,112 91.3 |
| 1997  | 3   | 1,371 | 662   | 2,036 | 0        | 18      | 2,036    | 2,036       | 4,206 48.4 |
| 1998  | 0   | 629   | 331   | 960   | 0        | 33      | 927      | 960         | 1,248 76.9 |
| 1999  | 0   | 490   | 1,324 | 1,813 | 0        | 94      | 1,719    | 1,813       | 2,399 75.6 |
| 2000  | 0   | 88    | 46    | 134   | 0        | 0       | 134      | 134         | 362 37.0   |
| 2001  | 0   | 158   | 828   | 986   | 0        | 947     | 981      | 986         | 1,021 96.6 |
| 2002  | 0   | 1,286 | 1,655 | 2,942 | 0        | 754     | 2,942    | 2,942       | 3,220 91.4 |
| 2003  | 0   | 357   | 494   | 852   | 0        | 24      | 852      | 852         | 968 88.0   |
| 2004  | 0   | 24    | 11    | 35    | 0        | 0       | 35       | 35          | 164 21.5   |
| 2005  | 0   | 0     | 0     | 0     | 0        | 0       | 0        | 0           | 85 0.0     |
| 2006  | 0   | 327   | 65    | 392   | 0        | 0       | 392      | 392         | 402 97.5   |
| 2007  | 0   | 54    | 284   | 338   | 0        | 124     | 338      | 338         | 433 78.2   |
| 2008  | 248 | 574   | 1,038 | 1,860 | 0        | 822     | 1,860    | 1,860       | 2,109 88.2 |

Table IV-10. Catch in RCA 10 (Continued).

| Atka Mackerel Catch by Zones 1991-2008 in Area 10 |     |      |       |      |          |         |         | Total CH | Total Catch | CH % |
|---|-----|------|-------|------|----------|---------|---------|----------|-------------|------|
| Year  | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |      |
| 1991  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1992  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1993  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1994  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1995  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1996  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1997  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1998  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 1999  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2000  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2001  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2002  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2003  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2004  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 1           | 0.0  |
| 2005  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2006  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2007  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |
| 2008  | 0   | 0    | 0     | 0    | 0        | 0       | 0       | 0        | 0           | 0.0  |

| Arrowtooth Flounder Catch by Zones 1991-2008, Analysis Area 10 |     |      |       |      |          |         |         | Total CH | Total Catch | CH % |
|--|-----|------|-------|------|----------|---------|---------|----------|-------------|------|
| Year   | 0-3 | 3-10 | 10-20 | 0-20 | Foraging | Rookery | Haulout |          |             |      |
| 1991   | 0   | 1    | 29    | 30   | 0        | 3       | 27      | 30       | 396         | 7.5  |
| 1992   | 1   | 29   | 346   | 375  | 0        | 23      | 364     | 375      | 1,225       | 30.6 |
| 1993   | 0   | 21   | 43    | 64   | 0        | 4       | 64      | 64       | 750         | 8.5  |
| 1994   | 0   | 42   | 59    | 101  | 0        | 24      | 99      | 101      | 816         | 12.4 |
| 1995   | 0   | 76   | 216   | 292  | 0        | 2       | 292     | 292      | 1,028       | 28.4 |
| 1996   | 0   | 128  | 155   | 283  | 0        | 13      | 283     | 283      | 865         | 32.7 |
| 1997   | 0   | 23   | 95    | 118  | 0        | 1       | 118     | 118      | 526         | 22.4 |
| 1998   | 0   | 29   | 140   | 168  | 0        | 6       | 162     | 168      | 487         | 34.5 |
| 1999   | 0   | 19   | 195   | 214  | 0        | 7       | 207     | 214      | 752         | 28.5 |
| 2000   | 0   | 34   | 83    | 117  | 0        | 0       | 117     | 117      | 621         | 18.8 |
| 2001   | 0   | 7    | 36    | 43   | 0        | 1       | 42      | 43       | 345         | 12.5 |
| 2002   | 0   | 5    | 44    | 49   | 0        | 0       | 49      | 49       | 159         | 31.1 |
| 2003   | 0   | 0    | 39    | 39   | 0        | 0       | 39      | 39       | 144         | 27.3 |
| 2004   | 0   | 0    | 17    | 17   | 0        | 0       | 17      | 17       | 137         | 12.4 |
| 2005   | 0   | 1    | 12    | 13   | 0        | 0       | 13      | 13       | 82          | 16.1 |
| 2006   | 0   | 1    | 24    | 25   | 0        | 0       | 25      | 25       | 85          | 29.2 |
| 2007   | 0   | 0    | 24    | 24   | 0        | 0       | 24      | 24       | 149         | 16.4 |
| 2008   | 0   | 0    | 22    | 22   | 0        | 5       | 18      | 22       | 130         | 17.3 |

Table IV-11. The catch (mt) of pollock, Pacific cod, Atka mackerel, and arrowtooth flounder, 1991-2008 in the SEAK area.

| Year | Total Catch by Species this Area |             |               |                      |
|------|----------------------------------|-------------|---------------|----------------------|
|      | Pollock                          | Pacific cod | Atka Mackerel | Arrow Tooth Flounder |
| 1991 | 4                                | 171         | 0             | 80                   |
| 1992 | 18                               | 4           | 0             | 495                  |
| 1993 | 0                                | 392         | 0             | 383                  |
| 1994 | 12                               | 104         | 0             | 204                  |
| 1995 | 0                                | 148         | 0             | 161                  |
| 1996 | 3                                | 296         | 0             | 204                  |
| 1997 | 94                               | 122         | 0             | 829                  |
| 1998 | 0                                | 200         | 0             | 68                   |
| 1999 | 0                                | 414         | 0             | 113                  |
| 2000 | 7                                | 109         | 0             | 91                   |
| 2001 | 0                                | 77          | 0             | 105                  |
| 2002 | 0                                | 12          | 0             | 41                   |
| 2003 | 0                                | 95          | 0             | 21                   |
| 2004 | 0                                | 142         | 0             | 24                   |
| 2005 | 0                                | 40          | 0             | 19                   |
| 2006 | 0                                | 54          | 0             | 43                   |
| 2007 | 1                                | 33          | 0             | 29                   |
| 2008 | 1                                | 52          | 0             | 58                   |

Table IV-12. Comparison of estimated biomass, total allowable catch (TAC), and estimated catch (expanded observer data in Appendix IV) for 1999 and 2008. Biomass data by NMFS Area based on NMFS survey mean values (tables 5.2 and 5.5). Bering Sea pollock and Pacific cod biomass based on the 2009 stock assessment.

| RCA           |      |             | 1       | 2       | 3     | 4       | 5      | 6          | 7       | 8      | 9       | 10    |
|---------------|------|-------------|---------|---------|-------|---------|--------|------------|---------|--------|---------|-------|
| NMFS Area     |      |             | 543     | 542     |       | 541     |        | Bering Sea | 610     | 620    | 630     | 640   |
| Pollock       | 1999 | Biomass     | 15,052  | 36,424  |       | 44,532  |        | 10,421,000 | 315,713 |        | 339,191 |       |
|               |      | TAC         |         | 2,000   |       |         |        | 992,000    | 23,120  | 38,840 | 30,520  | 2,110 |
|               |      | Total Catch | 112     | 259     | 371   | 202     | 66     | 994,545    | 23,385  | 38,312 | 28,876  | 5,418 |
|               |      | Catch in CH | 84      | 165     | 368   | 194     | 47     | 320,246    | 17,579  | 30,789 | 27,650  | 2,047 |
|               | 2008 | Biomass     | 7,748   | 32,762  |       | 87,076  |        | 3,809,000  | 150,084 |        | 226,771 |       |
|               |      | TAC         |         | 19,000  |       |         |        | 1,000,000  | 17,602  | 19,181 | 13,640  | 1,517 |
|               |      | Total Catch | 114     | 123     | 168   | 470     | 404    | 992,601    | 13,986  | 17,225 | 16,314  | 1,166 |
|               |      | Catch in CH | 70      | 33      | 168   | 68      | 343    | 246,522    | 9,771   | 10,194 | 13,084  | 701   |
| Pacific cod   | 1999 | Biomass     | 30,528  | 40,067  |       | 53,124  |        | 1,422,590  | 140,108 |        | 259,755 |       |
|               |      | TAC         |         | 210,000 |       |         |        |            | 23,630  |        | 42,935  | 1,270 |
|               |      | Total Catch | 2,232   | 3,811   | 1,876 | 11905   | 7,341  | 149,538    | 19,884  | 11,965 | 30,377  | 2,399 |
|               |      | Catch in CH | 1,933   | 3,680   | 1,828 | 10,928  | 5,535  | 44,758     | 17,234  | 5,180  | 12,357  | 1,813 |
|               | 2008 | Biomass     | 17,302  | 20,152  |       | 39,804  |        | 998,912    | 128,512 |        | 214,601 |       |
|               |      | TAC         |         | 146,837 |       |         |        |            | 19,449  |        | 28,426  | 2,394 |
|               |      | Total Catch | 9,151   | 2,870   | 1,441 | 6,910   | 11,821 | 140,492    | 18,661  | 11,481 | 24,226  | 2,109 |
|               |      | Catch in CH | 8,709   | 2,529   | 1,440 | 5,708   | 8,935  | 32,872     | 12,030  | 8,591  | 11,728  | 1,860 |
| Atka mackerel | 1999 | Biomass     | 226,121 | 196,433 |       | 93,829  |        |            | 123,583 |        | 568     |       |
|               |      | TAC         | 27,000  | 22,400  |       | 17,000  |        | --         |         | 600    |         |       |
|               |      | Total Catch | 16,388  | 14,269  | 8,040 | 554     | 14,677 | 2,314      | 255     | 0      | 1       | 0     |
|               |      | Catch in CH | 11,803  | 4,016   | 8,027 | 552     | 3,660  | 2,175      | 118     | 0      | 0       | 0     |
|               | 2008 | Biomass     | 243,692 | 268,957 |       | 295,765 |        |            | 91,670  |        | 2,847   |       |
|               |      | TAC         | 16,900  | 24,300  |       | 19,500  |        | --         |         | 1,500  |         |       |
|               |      | Total Catch | 16,509  | 17,917  | 4,560 | 53      | 18,650 | 447        | 1,734   | 316    | 4       | 0     |
|               |      | Catch in CH | 5,955   | 8,571   | 4,560 | 52      | 196    | 408        | 633     | 0.3    | 1       | 0     |

Table IV-1999-2008-Area 1. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 1. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 1.



Proportion

| Area 1              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |          | AMT<br>catch in<br>CH | % change in amount of<br>fish removed from CH | Total<br>Catch<br>Area 1 | as % change in amt<br>caught from '99 |                   |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|----------|-----------------------|---|--------------------------|---------------------------------------|-------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total<br>CH                   | 3-10     | 10-20    | Total CH              |   |                          |                                       |                   |
| Pollock trawl       | 1999 | 0                                   | 4.9  | 70.3  |          | 75.2                          | 519.20%  | -58.60%  | -20.60%               | 84  | -22.90%                  | 112                                   | -2.90%            |
|                     | 2008 | 0                                   | 30.6 | 29.1  |          | 59.7                          |          |          |                       | 65  |                          | 108                                   |                   |
| P. Cod Trawl        | 1999 | 0                                   | 0.3  | 82    |          | 82.4                          | 4452.10% | 0.50%    | 18.60%                | 685   | 644.30%                  | 832                                   | 527.70% increase  |
|                     | 2008 | 0                                   | 15.2 | 82.5  |          | 97.7                          |          |          |                       | 5,102   |                          | 5,223                                 |                   |
| P. Cod Pot          | 1999 | 0.3                                 | 34.6 | 61.5  |          | 96.4                          | -100.00% | -100.00% | -100.00%              | 1,167   | -100.00%                 | 1,211                                 | -100.00% decrease |
|                     | 2008 | 0                                   | 0    | 0     |          | 0                             |          |          |                       | 0   |                          | 0                                     |                   |
| P. Cod Longline     | 1999 | 0                                   | 0    | 42.3  |          | 42.3                          | 0        | -10.70%  | 116.90%               | 80  | 4405.80%                 | 189                                   | 1977.10% increase |
|                     | 2008 | 0                                   | 54   | 37.8  |          | 91.9                          |          |          |                       | 3,608   |                          | 3,927                                 |                   |
| Atka Mackerel Trawl | 1999 | 0                                   | 0    | 72    |          | 72                            | 0        | -50.00%  | -50.00%               | 11,802  | -49.70%                  | 16,387                                | 0.60%             |
|                     | 2008 | 0                                   | 0    | 36    |          | 36                            |          |          |                       | 5,942   |                          | 16,492                                |                   |

Amounts (mt)

| Area 1              |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 1999 to 2008 |     |       |        | AMT (mt) catch in CH,<br>Area 1 | AMT<br>change in<br>amount of<br>fish<br>removed<br>from CH | Total<br>Catch<br>Area 1 | as AMT (mt) change<br>in total caught from<br>'99 |                 |
|---------------------|------|----------------------------------|------|-------|----------|---|-----|-------|--------|---------------------------------|---|--------------------------|---|-----------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total<br>CH                             | 0-3 | 3-10  | 10-20  | Foraging                        |   |                          |   |                 |
| Pollock trawl       | 1999 | 0                                | 6    | 78    |          | 84                                      | 0   | 28    | -47    |                                 | 84  | -19                      | 112   | -3              |
|                     | 2008 | 0                                | 33   | 32    |          | 65                                      |     |       |        |                                 | 65  |                          | 108   |                 |
| P. Cod Trawl        | 1999 | 0                                | 3    | 683   |          | 685                                     | 0   | 792   | 3,625  |                                 | 685   | 4,416                    | 832   | 4,391 increase  |
|                     | 2008 | 0                                | 794  | 4307  |          | 5,102                                   |     |       |        |                                 | 5,102   |                          | 5,223   |                 |
| P. Cod Pot          | 1999 | 4                                | 419  | 745   |          | 1,167                                   | -4  | -419  | -745   |                                 | 1,167   | -1,167                   | 1,211   | -1,211 decrease |
|                     | 2008 | 0                                | 0    | 0     |          | 0                                       |     |       |        |                                 | 0   |                          | 0   |                 |
| P. Cod Longline     | 1999 | 0                                | 0    | 80    |          | 80                                      | 0   | 2,123 | 1,405  |                                 | 80  | 3,528                    | 189   | 3,738 increase  |
|                     | 2008 | 0                                | 2123 | 1485  |          | 3,608                                   |     |       |        |                                 | 3,608   |                          | 3,927   |                 |
| Atka Mackerel Trawl | 1999 | 0                                | 0    | 11802 |          | 11,802                                  | 0   | 5     | -5,865 |                                 | 11,802  | -5,860                   | 16,387  | 105             |
|                     | 2008 | 0                                | 5    | 5937  |          | 5,942                                   |     |       |        |                                 | 5,942   |                          | 16,492  |                 |

Table IV-1999-2008-Area 1 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 1. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 1.

**Total Catch All Gear**

*Proportion*

| Area 1              | Gear | Year | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |           |         | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 1 | as % change in amt caught from '99 |                  |
|---------------------|------|------|-------------------------------------|------|-------|----------|-------------------------------|-----------|---------|-----------------|--|--------------------|------------------------------------|------------------|
|                     |      |      | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10      | 10-20   | Total CH        |  |                    |                                    |                  |
| Pollock             |      | 1999 | 0                                   | 4.9  | 70.3  | 0        | 75.2                          | 540.80%   | -58.10% | -18.70%         | 84   | -17.00%            | 112                                | 2.10%            |
|                     |      | 2008 | 0                                   | 31.7 | 29.5  | 0        | 61.2                          |           |         |                 | 70   |                    | 114                                |                  |
| Pacific Cod         |      | 1999 | 0.2                                 | 18.9 | 67.5  | 0        | 86.6                          | 68.80%    | -6.30%  | 9.90%           | 1,933                                      | 350.60%            | 2,232                              | 309.90% increase |
|                     |      | 2008 | 0                                   | 31.9 | 63.3  | 0        | 95.2                          |           |         |                 | 8,709                                      |                    | 9,151                              |                  |
| Atka Mackerel       |      | 1999 | 0                                   | 0    | 72    | 0        | 72                            | 100%      | -50.00% | -49.90%         | 11,803                                     | -49.50%            | 16,388                             | 0.70%            |
|                     |      | 2008 | 0                                   | 0.1  | 36    | 0        | 36.1                          |           |         |                 | 5,955                                      |                    | 16,509                             |                  |
| Arrowtooth Flounder |      | 1999 | 0                                   | 0.1  | 57    | 0        | 57                            | 13970.90% | -77.90% | -59.10%         | 52   | -10.90%            | 92                                 | 117.90%          |
|                     |      | 2008 | 0                                   | 10.7 | 12.6  | 0        | 23.3                          |           |         |                 | 47   |                    | 200                                |                  |
| % all four species  |      | 1999 | 0                                   | 2.3  | 71.4  | 0        | 73.7                          | 407.20%   | -36.40% | -22.80%         | 13,872                                     | 6.60%              | 18,824                             | 38.00% increase  |
|                     |      | 2008 | 0                                   | 11.5 | 45.4  | 0        | 56.9                          |           |         |                 | 14,781                                     |                    | 25,974                             |                  |

*Amounts (mt)*

| Area 1               | Gear | Year | AMOUNT (mt) of Catch in CH areas |      |       |          |          | AMOUNT (mt) of change from 1999 to 2008 |       |        |          | AMT (mt) catch in CH Area 1 | AMT change in amount of fish removed from CH | Total Catch Area 1 | as AMT (mt) change in total caught from '99 |
|----------------------|------|------|----------------------------------|------|-------|----------|----------|---|-------|--------|----------|-----------------------------|--|--------------------|---|
|                      |      |      | 0-3                              | 3-10 | 10-20 | Foraging | Total CH | 0-3                                     | 3-10  | 10-20  | Foraging |                             |  |                    |   |
| Pollock              |      | 1999 | 0                                | 6    | 78    | 0        | 84       | 0                                       | 31    | -45    | 0        | 84                          | -14  | 112                | 2   |
|                      |      | 2008 | 0                                | 36   | 34    | 0        | 70       |   |       |        |          | 70                          |  | 114                |   |
| Pacific Cod          |      | 1999 | 4                                | 422  | 1507  | 0        | 1,933    | -4                                      | 2,495 | 4,285  | 0        | 1,933                       | 6,777  | 2,232              | 6,918 increase                              |
|                      |      | 2008 | 0                                | 2917 | 5793  | 0        | 8,709    |   |       |        |          | 8,709                       |  | 9,151              |   |
| Atka Mackerel        |      | 1999 | 0                                | 0    | 11803 | 0        | 11,803   | 0                                       | 15    | -5,863 | 0        | 11,803                      | -5,848                                       | 16,388             | 121   |
|                      |      | 2008 | 0                                | 15   | 5940  | 0        | 5,955    |   |       |        |          | 5,955                       |  | 16,509             |   |
| Arrowtooth Flounder  |      | 1999 | 0                                | 0    | 52    | 0        | 52       | 0                                       | 21    | -27    | 0        | 52                          | -6   | 92                 | 108 increase                                |
|                      |      | 2008 | 0                                | 21   | 25    | 0        | 47       |   |       |        |          | 47                          |  | 200                |   |
| Sum all four species |      | 1999 | 4                                | 427  | 13441 | 0        | 13,872   | -4                                      | 2,562 | -1,650 | 0        | 13,872                      | 909  | 18,824             | 7,150 increase                              |
|                      |      | 2008 | 0                                | 2989 | 11792 | 0        | 14,781   |   |       |        |          | 14,781                      |  | 25,974             |   |

Table IV-1999-2008-Area 2. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 2. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 2.



| Area 2              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |         | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 2 | as % change in amt caught from '99 |                   |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|---------|-----------------|--|--------------------|------------------------------------|-------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10     | 10-20   | Total CH        |  |                    |                                    |                   |
| Pollock trawl       | 1999 | 1.4                                 | 27.4 | 35.3  | 0        | 64                            | -97.00%  | -28.40% | -59.30%         | 164  | -80.70%            | 256                                | -52.50% decrease  |
|                     | 2008 | 0                                   | 0.8  | 25.2  | 0        | 26.1                          |          |         |                 | 32   |                    | 121                                |                   |
| P. Cod Trawl        | 1999 | 0                                   | 8.4  | 62.4  | 0        | 70.8                          | 266.30%  | -41.20% | -5.00%          | 307  | 128.10%            | 433                                | 140.10% increase  |
|                     | 2008 | 0                                   | 30.6 | 36.7  | 0        | 67.3                          |          |         |                 | 700  |                    | 1,040                              |                   |
| P. Cod Pot          | 1999 | 5                                   | 77.2 | 17.9  | 0        | 100                           | -100.00% | 100.00% | 100.00%         | 413  | -100.00%           | 413                                | -100.00% decrease |
|                     | 2008 | 0                                   | 0    | 0     | 0        | 0                             |          |         |                 | 0  |                    | 0                                  |                   |
| P. Cod Longline     | 1999 | 0.4                                 | 81.2 | 18.3  | 0        | 99.8                          | 6.10%    | -39.10% | 0.20%           | 2,960                                      | -38.20%            | 2,965                              | -38.30% decrease  |
|                     | 2008 | 2.7                                 | 86.1 | 11.1  | 0        | 100                           |          |         |                 | 1,830                                      |                    | 1,830                              |                   |
| Atka Mackerel Trawl | 1999 | 0                                   | 0.4  | 27.4  | 0        | 27.9                          | 97.30%   | 71.00%  | 71.40%          | 3,961                                      | 115.90%            | 14,213                             | 25.90% increase   |
|                     | 2008 | 0                                   | 0.8  | 46.9  | 0        | 47.8                          |          |         |                 | 8,551                                      |                    | 17,898                             |                   |

| Area 2              |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |     |      |       | AMT (mt) catch in CH Area 2 | AMT change in amount of fish removed from CH | Total Catch Area 2 | as AMT (mt) change in total caught from '99 |                 |
|---------------------|------|----------------------------------|------|-------|----------|---------------------------------------|-----|------|-------|-----------------------------|--|--------------------|---|-----------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH                              | 0-3 | 3-10 | 10-20 | Foraging                    |  |                    |   |                 |
| Pollock trawl       | 1999 | 3                                | 70   | 90    | 0        | 164                                   | -3  | -69  | -59   | 0                           | 164  | -132               | 256   | -134 decrease   |
|                     | 2008 | 0                                | 1    | 31    | 0        | 32                                    |     |      |       |                             | 32   |                    | 121   |                 |
| P. Cod Trawl        | 1999 | 0                                | 36   | 270   | 0        | 307                                   | 0   | 282  | 111   | 0                           | 307  | 393                | 433   | 607 increase    |
|                     | 2008 | 0                                | 318  | 381   | 0        | 700                                   |     |      |       |                             | 700  |                    | 1,040                                       |                 |
| P. Cod Pot          | 1999 | 21                               | 318  | 74    | 0        | 413                                   | -21 | -318 | -74   | 0                           | 413  | -413               | 413   | -413 decrease   |
|                     | 2008 | 0                                | 0    | 0     | 0        | 0                                     |     |      |       |                             | 0  |                    | 0   |                 |
| P. Cod Longline     | 1999 | 11                               | 2407 | 542   | 0        | 2,960                                 | 39  | -831 | -339  | 0                           | 2,960  | -1,131             | 2,965                                       | -1,136 decrease |
|                     | 2008 | 50                               | 1576 | 204   | 0        | 1,830                                 |     |      |       |                             | 1,830  |                    | 1,830                                       |                 |
| Atka Mackerel Trawl | 1999 | 0                                | 61   | 3900  | 0        | 3,961                                 | 0   | 90   | 4,500 | 0                           | 3,961  | 4,590              | 14,213                                      | 3,684 increase  |
|                     | 2008 | 0                                | 150  | 8401  | 0        | 8,551                                 |     |      |       |                             | 8,551  |                    | 17,898                                      |                 |

Table IV-1999-2008-Area 2 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 2. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 2.

**Total Catch All Gear**

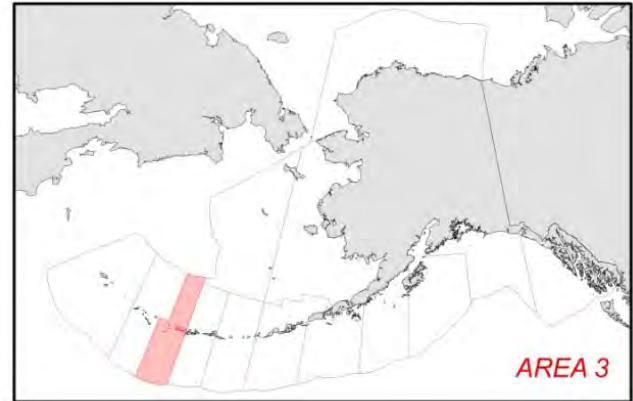
*Proportion*

| Area 2              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |         |         | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 2 | as % change in amt caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|---------|---------|-----------------|--|--------------------|------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10    | 10-20   | Total CH        |  |                    |                                    |                  |
| Pollock             | 1999 | 1.3                                 | 27.4 | 34.8  | 0        | 63.6                          | -95.50% | -26.70% | -57.80%         | 165  | -80.00%            | 259                                | -52.70% decrease |
|                     | 2008 | 0.1                                 | 1.2  | 25.5  | 0        | 26.8                          |         |         |                 | 33   |                    | 123                                |                  |
| Pacific Cod         | 1999 | 0.8                                 | 72.5 | 23.3  | 0        | 96.6                          | -8.90%  | -12.30% | -8.70%          | 3,680                                      | -31.30%            | 3,811                              | -24.70% decrease |
|                     | 2008 | 1.7                                 | 66   | 20.4  | 0        | 88.1                          |         |         |                 | 2,529                                      |                    | 2,870                              |                  |
| Atka Mackerel       | 1999 | 0                                   | 0.7  | 27.5  | 0        | 28.1                          | 35.50%  | 70.80%  | 70.00%          | 4,016                                      | 113.40%            | 14,269                             | 25.60% increase  |
|                     | 2008 | 0                                   | 0.9  | 46.9  | 0        | 47.8                          |         |         |                 | 8,571                                      |                    | 17,917                             |                  |
| Arrowtooth Flounder | 1999 | 1                                   | 4.5  | 27.6  | 0        | 33                            | -35.30% | 36.30%  | 23.20%          | 48   | -23.00%            | 146                                | -37.50% decrease |
|                     | 2008 | 0.2                                 | 2.9  | 37.6  | 0        | 40.7                          |         |         |                 | 37   |                    | 91                                 |                  |
| % all four species  | 1999 | 0.2                                 | 15.9 | 26.7  | 0        | 42.8                          | -38.10% | 61.50%  | 24.30%          | 7,909                                      | 41.20%             | 18,485                             | 13.60% increase  |
|                     | 2008 | 0.2                                 | 9.8  | 43.1  | 0        | 53.2                          |         |         |                 | 11,170                                     |                    | 21,001                             |                  |

*Amounts (mt)*

| Area 2               |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |     |      |       | AMT (mt) catch in CH Area 2 | AMT change in amount of fish removed from CH | Total Catch Area 2 | as AMT (mt) change in total caught from '99 |                |
|----------------------|------|----------------------------------|------|-------|----------|---------------------------------------|-----|------|-------|-----------------------------|--|--------------------|---|----------------|
| Gear                 | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH                              | 0-3 | 3-10 | 10-20 | Foraging                    |  |                    |   |                |
| Pollock              | 1999 | 3                                | 71   | 90    | 0        | 165                                   | -3  | -70  | -59   | 0                           | 165  | -132               | 259   | -137 decrease  |
|                      | 2008 | 0                                | 2    | 31    | 0        | 33                                    |     |      |       |                             | 33   |                    | 123   |                |
| Pacific Cod          | 1999 | 32                               | 2761 | 886   | 0        | 3,680                                 | 18  | -867 | -301  | 0                           | 3,680  | -1,150             | 3,811                                       | -941 decrease  |
|                      | 2008 | 50                               | 1894 | 585   | 0        | 2,529                                 |     |      |       |                             | 2,529  |                    | 2,870                                       |                |
| Atka Mackerel        | 1999 | 0                                | 98   | 3918  | 0        | 4,016                                 | 0   | 69   | 4,486 | 0                           | 4,016  | 4,555              | 14,269                                      | 3,649 increase |
|                      | 2008 | 0                                | 167  | 8404  | 0        | 8,571                                 |     |      |       |                             | 8,571  |                    | 17,917                                      |                |
| Arrowtooth Flounder  | 1999 | 1                                | 7    | 40    | 0        | 48                                    | -1  | -4   | -6    | 0                           | 48   | -11                | 146   | -55 decrease   |
|                      | 2008 | 0                                | 3    | 34    | 0        | 37                                    |     |      |       |                             | 37   |                    | 91  |                |
| Sum all four species | 1999 | 37                               | 2937 | 4935  | 0        | 7,909                                 | 13  | -872 | 4,120 | 0                           | 7,909  | 3,262              | 18,485                                      | 2,516 increase |
|                      | 2008 | 50                               | 2065 | 9055  | 0        | 11,170                                |     |      |       |                             | 11,170                                       |                    | 21,001                                      |                |

Table IV-1999-2008-Area 3. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 3. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 3.



Proportion

| Area 3              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 3 | as % change in amt caught from '99 |                   |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|----------|-----------------|--|--------------------|------------------------------------|-------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10     | 10-20    | Total CH        |  |                    |                                    |                   |
| Pollock trawl       | 1999 | 2.6                                 | 78.4 | 18.2  |          | 99.2                          | -5.00%   | 18.10%   | 0.80%           | 366  | -54.30%            | 369                                | -54.60% decrease  |
|                     | 2008 | 4                                   | 74.5 | 21.5  |          | 100                           |          |          |                 | 168  |                    | 168                                |                   |
| P. Cod Trawl        | 1999 | 2.3                                 | 90.5 | 6.4   |          | 99.1                          | -47.80%  | 718.00%  | 0.70%           | 1,343                                      | -58.50%            | 1,355                              | -58.80% decrease  |
|                     | 2008 | 0                                   | 47.2 | 52.6  |          | 99.8                          |          |          |                 | 558  |                    | 559                                |                   |
| P. Cod Pot          | 1999 | 9.4                                 | 46   | 44.7  |          | 100                           | -100.00% | -100.00% | 100.00%         | 129  | -100.00%           | 129                                | -100.00% decrease |
|                     | 2008 | 0                                   | 0    | 0     |          | 0                             |          |          |                 | 0  |                    | 0                                  |                   |
| P. Cod Longline     | 1999 | 2.4                                 | 58.2 | 29.8  |          | 90.5                          | 62.80%   | -82.60%  | 10.50%          | 355  | 148.40%            | 392                                | 124.90% increase  |
|                     | 2008 | 0                                   | 94.8 | 5.2   |          | 100                           |          |          |                 | 882  |                    | 882                                |                   |
| Atka Mackerel Trawl | 1999 | 2.9                                 | 85.4 | 11.6  |          | 99.8                          | -97.20%  | 741.50%  | 0.20%           | 8,019                                      | -43.20%            | 8,033                              | -43.30% decrease  |
|                     | 2008 | 0                                   | 2.4  | 97.6  |          | 100                           |          |          |                 | 4,555                                      |                    | 4,555                              |                   |

Amounts (mt)

| Area 3              |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |      |        |       | AMT (mt) catch in CH Area 3 | AMT change in amount of fish removed from CH | Total Catch Area 3 | as AMT (mt) change in total caught from '99 |                 |
|---------------------|------|----------------------------------|------|-------|----------|---------------------------------------|------|--------|-------|-----------------------------|--|--------------------|---|-----------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH                              | 0-3  | 3-10   | 10-20 | Foraging                    |  |                    |   |                 |
| Pollock trawl       | 1999 | 10                               | 289  | 67    |          | 366                                   | -3   | -165   | -31   | 0                           | 366  | -199               | 369   | -202 decrease   |
|                     | 2008 | 7                                | 125  | 36    |          | 168                                   |      |        |       |                             | 168  |                    | 168   |                 |
| P. Cod Trawl        | 1999 | 31                               | 1225 | 87    |          | 1,343                                 | -31  | -962   | 207   | 0                           | 1,343  | -786               | 1,355                                       | -796 decrease   |
|                     | 2008 | 0                                | 264  | 294   |          | 558                                   |      |        |       |                             | 558  |                    | 559   |                 |
| P. Cod Pot          | 1999 | 12                               | 59   | 58    |          | 129                                   | -12  | -59    | -58   | 0                           | 129  | -129               | 129   | -129 decrease   |
|                     | 2008 | 0                                | 0    | 0     |          | 0                                     |      |        |       |                             | 0  |                    | 0   |                 |
| P. Cod Longline     | 1999 | 10                               | 228  | 117   |          | 355                                   | -10  | 608    | -71   | 0                           | 355  | 527                | 392   | 490 increase    |
|                     | 2008 | 0                                | 836  | 46    |          | 882                                   |      |        |       |                             | 882  |                    | 882   |                 |
| Atka Mackerel Trawl | 1999 | 231                              | 6856 | 932   |          | 8,019                                 | -231 | -6,749 | 3,515 | 0                           | 8,019  | -3,465             | 8,033                                       | -3,478 decrease |
|                     | 2008 | 0                                | 107  | 4447  |          | 4,555                                 |      |        |       |                             | 4,555  |                    | 4,555                                       |                 |

Table IV-1999-2008-Area 3 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 3. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 3.

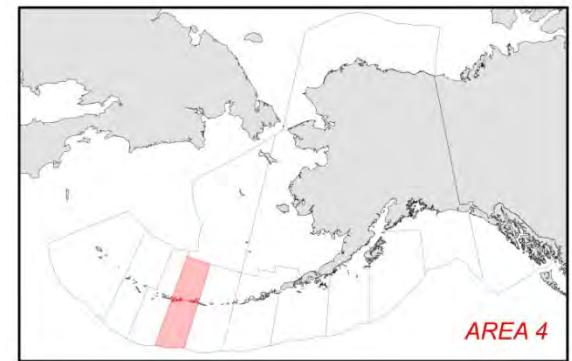
**Total Catch All Gear**

*Proportion*

| Area 3              | Per Cent of Total Catch in CH areas |      |      |      |           | Change from 1999 to 2008 as % |             |         | AMT<br>catch in<br>CH | % change<br>in amount<br>of fish<br>removed<br>from CH | Total<br>Catch<br>Area 3 | as % change in amt<br>caught from '99 |        |
|---------------------|-------------------------------------|------|------|------|-----------|-------------------------------|-------------|---------|-----------------------|--|--------------------------|---------------------------------------|--------|
|                     | Gear                                | Year | 0-3  | 3-10 | 10-<br>20 | Foraging                      | Total<br>CH | 3-10    | 10-20                 | Total CH   |                          |                                       |        |
| Pollock             | 199                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 9                                   | 2.6  | 78.5 | 18.1 | 0         | 0                             | 99.2        | -5.00%  | 18.10%                | 0.80%  | 368                      | -54.30%                               | 371    |
| Pacific Cod         | 200                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 8                                   | 4    | 74.5 | 21.4 | 0         | 0                             | 100         |         |                       |  | 168                      |                                       | 168    |
| Atka Mackerel       | 199                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 9                                   | 2.8  | 80.7 | 14   | 0         | 0                             | 97.4        | -5.40%  | 69.00%                | 2.60%  | 1,828                    | -21.20%                               | 1,876  |
| Arrowtooth Flounder | 200                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 8                                   | 0    | 76.3 | 23.6 | 0         | 0                             | 99.9        |         |                       |  | 1,440                    |                                       | 1,441  |
| % all four species  | 199                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 9                                   | 2.9  | 85.4 | 11.6 | 0         | 0                             | 99.8        | -97.10% | 741.20%               | 0.20%  | 8,027                    | -43.20%                               | 8,040  |
| Arrowtooth Flounder | 200                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 8                                   | 0    | 2.5  | 97.5 | 0         | 0                             | 100         |         |                       |  | 4,560                    |                                       | 4,560  |
| % all four species  | 199                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 9                                   | 1.7  | 81.4 | 12.9 | 0         | 0                             | 96.1        | -27.50% | 183.90%               | 2.10%  | 163                      | -10.70%                               | 169    |
| Arrowtooth Flounder | 200                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 8                                   | 2.3  | 59   | 36.7 | 0         | 0                             | 98.1        |         |                       |  | 145                      |                                       | 148    |
| % all four species  | 199                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 9                                   | 2.8  | 84.2 | 12.3 | 0         | 0                             | 99.3        | -73.20% | 529.10%               | 0.60%  | 10,386                   | -39.20%                               | 10,457 |
| % all four species  | 200                                 |      |      |      |           |                               |             |         |                       |  |                          |                                       |        |
|                     | 8                                   | 0.2  | 22.6 | 77.2 | 0         | 0                             | 99.9        |         |                       |  | 6,313                    |                                       | 6,317  |

*Amounts (mt)*

| Area 3              | AMOUNT (mt) of Catch in CH areas |      |      |      |           | AMOUNT (mt) of change from 99 to 2008 |             |      |        | AMT (mt)<br>catch in<br>CH Area 3 | AMT change<br>in amount<br>of fish<br>removed<br>from CH | Total<br>Catch<br>Area 3 | as AMT (mt) change<br>in total caught from<br>'99 |       |
|---------------------|----------------------------------|------|------|------|-----------|---------------------------------------|-------------|------|--------|-----------------------------------|--|--------------------------|---|-------|
|                     | Gear                             | Year | 0-3  | 3-10 | 10-<br>20 | Foraging                              | Total<br>CH | 0-3  | 3-10   | 10-20                             | Foraging   |                          |   |       |
| Pollock             | 199                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 9                                | 10   | 291  | 67   | 0         | 0                                     | 368         | -3   | -166   | -31                               | 0  | 368                      | -200  | 371   |
| Pacific Cod         | 200                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 8                                | 7    | 125  | 36   | 0         | 0                                     | 168         |      |        |                                   |  | 168                      |   | 168   |
| Atka Mackerel       | 199                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 9                                | 52   | 1513 | 262  | 0         | 0                                     | 1,828       | -52  | -414   | 78                                | 0  | 1,828                    | -388  | 1,876 |
| Arrowtooth Flounder | 200                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 8                                | 0    | 1100 | 340  | 0         | 0                                     | 1,440       |      |        |                                   |  | 1,440                    |   | 1,441 |
| Arrowtooth Flounder | 199                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 9                                | 23   | 6864 | 932  | 0         | 0                                     | 8,027       | -231 | -6,751 | 3,515                             | 0  | 8,027                    | -3,467  | 8,040 |
| Arrowtooth Flounder | 200                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 8                                | 0    | 113  | 4447 | 0         | 0                                     | 4,560       |      |        |                                   |  | 4,560                    |   | 4,560 |
| Arrowtooth Flounder | 199                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 9                                | 3    | 138  | 22   | 0         | 0                                     | 163         | 1    | -51    | 33                                | 0  | 163                      | -17   | 169   |
| Arrowtooth Flounder | 200                              |      |      |      |           |                                       |             |      |        |                                   |  |                          |   |       |
|                     | 200                              | 3    | 87   | 54   | 0         | 0                                     | 145         |      |        |                                   |  | 145                      |   | 148   |



|                      |                      |                     |                              |        |                 |                              |   |                 |                 |                 |                    |
|----------------------|----------------------|---------------------|------------------------------|--------|-----------------|------------------------------|---|-----------------|-----------------|-----------------|--------------------|
| Sum all four species | 199<br>9<br>200<br>8 | 29<br>6<br>10<br>10 | 8806<br>1283<br>4877<br>1425 | 0<br>0 | 10,386<br>6,313 | -286<br>-7,381<br>3,594<br>0 | 0 | 10,386<br>6,313 | -4,072<br>6,317 | 10,457<br>6,317 | -4,140<br>decrease |
|----------------------|----------------------|---------------------|------------------------------|--------|-----------------|------------------------------|---|-----------------|-----------------|-----------------|--------------------|

Table IV-1999-2008-Area 4. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 4. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 4.

Proportion

| Area 4              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 4 | as % change in amt caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|----------|-----------------|--|--------------------|------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10     | 10-20    | Total CH        |  |                    |                                    |                  |
| Pollock trawl       | 1999 | 0                                   | 43.2 | 52.5  |          | 95.7                          | -89.60%  | -81.10%  | -85.00%         | 190  | -64.50%            | 199                                | 135.70% increase |
|                     | 2008 | 0                                   | 4.5  | 9.9   |          | 14.4                          |          |          |                 | 67   |                    | 468                                |                  |
| P. Cod Trawl        | 1999 | 1.5                                 | 41   | 53.4  |          | 95.8                          | 46.40%   | -37.10%  | -2.30%          | 8,557                                      | -42.10%            | 8,931                              | -40.70% decrease |
|                     | 2008 | 0                                   | 60   | 33.6  |          | 93.6                          |          |          |                 | 4,958                                      |                    | 5,297                              |                  |
| P. Cod Pot          | 1999 | 3.9                                 | 43.1 | 50.6  |          | 97.6                          | -100.00% | -100.00% | -100.00%        | 956  | -100.00%           | 979                                | -58.10% decrease |
|                     | 2008 | 0                                   | 0    | 0     |          | 0                             |          |          |                 | 0  |                    | 410                                |                  |
| P. Cod Longline     | 1999 | 4.7                                 | 29.7 | 36.6  |          | 71                            | 22.30%   | -28.70%  | -12.10%         | 1,416                                      | -47.00%            | 1,995                              | -39.70% decrease |
|                     | 2008 | 0                                   | 36.3 | 26.1  |          | 62.4                          |          |          |                 | 751  |                    | 1,203                              |                  |
| Alka Mackerel Trawl | 1999 | 0                                   | 93.6 | 6.1   |          | 99.6                          | 5.60%    | -91.90%  | -0.30%          | 547  | -91.00%            | 549                                | -90.90% decrease |
|                     | 2008 | 0                                   | 98.8 | 0.5   |          | 99.3                          |          |          |                 | 49   |                    | 50                                 |                  |

Amounts (mt)

| Area 4 |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |     |      |       | AMT (mt) catch in CH Area 4 | AMT change in amount of fish | Total Catch Area 4 | as AMT (mt) change |
|--------|------|----------------------------------|------|-------|----------|---------------------------------------|-----|------|-------|-----------------------------|------------------------------|--------------------|--------------------|
| Gear   | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH                              | 0-3 | 3-10 | 10-20 | Foraging                    |                              |                    |                    |

|                     |      |     |      |      |       |      |      | removed from CH |       | in total caught from '99 |   |
|---------------------|------|-----|------|------|-------|------|------|-----------------|-------|--------------------------|---|
| Pollock trawl       | 1999 | 0   | 86   | 104  | 190   | 0    | -65  | -58             | 190   | -123                     | 199 <span style="color:red">269</span> increase |
|                     | 2008 | 0   | 21   | 46   | 67    |      |      |                 | 67    | 468                      |   |
| P. Cod Trawl        | 1999 | 130 | 3661 | 4765 | 8,557 | -130 | -482 | -2,987          | 8,557 | -3,599                   | 8,931 -3,635 decrease                           |
|                     | 2008 | 0   | 3179 | 1778 | 4,958 |      |      |                 | 4,958 | 5,297                    |   |
| P. Cod Pot          | 1999 | 39  | 422  | 495  | 956   | -39  | -422 | -495            | 956   | -956                     | 979 -569 decrease                               |
|                     | 2008 | 0   | 0    | 0    | 0     |      |      |                 | 0     | 410                      |   |
| P. Cod Longline     | 1999 | 94  | 593  | 730  | 1,416 | -94  | -155 | -416            | 1,416 | -665                     | 1,995 -792 decrease                             |
|                     | 2008 | 0   | 437  | 314  | 751   |      |      |                 | 751   | 1,203                    |   |
| Atka Mackerel Trawl | 1999 | 0   | 514  | 33   | 547   | 0    | -464 | -33             | 547   | -497                     | 549 -499 decrease                               |
|                     | 2008 | 0   | 49   | 0    | 49    |      |      |                 | 49    | 50                       |   |

Table IV-1999-2008-Area 4 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 4. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 4.

#### Proportion

| Area 4              |      | Per Cent of Total Catch in CH areas |      |      |      | Change from 1999 to 2008 as % |          |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 4 | as % change in amt caught from '99                     |
|---------------------|------|-------------------------------------|------|------|------|-------------------------------|----------|----------|-----------------|--|--------------------|--|
|                     |      | Gear                                | Year | 0-3  | 3-10 | 10-20                         | Foraging | Total CH |                 |  |                    |  |
| Pollock             | 1999 | 0.2                                 | 43.8 | 51.7 | 0    | 95.7                          | -89.40%  | -80.90%  | -84.80%         | 194  | -64.70%            | 202 <span style="color:red">132.20%</span> increase    |
|                     | 2008 | 0                                   | 4.6  | 9.9  | 0    | 14.5                          |          |          |                 | 68   |                    | 470  |
| Pacific Cod         | 1999 | 2.2                                 | 39.3 | 50.3 | 0    | 91.8                          | 33.30%   | -39.80%  | -10.00%         | 10,928                                     | -47.80%            | 11,905 <span style="color:red">-42.00%</span> decrease |
|                     | 2008 | 0                                   | 52.3 | 30.3 | 0    | 82.6                          |          |          |                 | 5,708                                      |                    | 6,910  |
| Atka Mackerel       | 1999 | 0.2                                 | 93.2 | 6.2  | 0    | 99.6                          | 3.40%    | -80.60%  | -2.10%          | 552  | -90.60%            | 554 <span style="color:red">-90.40%</span> decrease    |
|                     | 2008 | 0                                   | 96.4 | 1.2  | 0    | 97.6                          |          |          |                 | 52   |                    | 53   |
| Arrowtooth Flounder | 1999 | 1.7                                 | 38.3 | 45.5 | 0    | 85.5                          | -6.80%   | -40.10%  | -26.40%         | 102  | -51.70%            | 119 <span style="color:red">-34.40%</span> decrease    |
|                     | 2008 | 0                                   | 35.7 | 27.3 | 0    | 63                            |          |          |                 | 49   |                    | 78   |
| % all four species  | 1999 | 2.1                                 | 41.7 | 48.4 | 0    | 92.1                          | 18.80%   | -40.50%  | -15.10%         | 11,776                                     | -50.10%            | 12,781 <span style="color:red">-41.20%</span> decrease |
|                     | 2008 | 0                                   | 49.5 | 28.8 | 0    | 78.3                          |          |          |                 | 5,878                                      |                    | 7,511  |

#### Amounts (mt)

| Area 4      |      | AMOUNT (mt) of Catch in CH areas |      |      |      |        | AMOUNT (mt) of change from 99 to 2008 |          |        |      | AMT (mt) catch in CH Area 4 | AMT change in amount of fish removed from CH | Total Catch Area 4                                    | as AMT (mt) change in total caught from '99 |
|-------------|------|----------------------------------|------|------|------|--------|---------------------------------------|----------|--------|------|-----------------------------|--|---|---|
|             |      | Gear                             | Year | 0-3  | 3-10 | 10-20  | Foraging                              | Total CH | 0-3    | 3-10 | 10-20                       | Foraging                                     |   |   |
| Pollock     | 1999 | 0                                | 89   | 105  |      | 194    | 0                                     | -67      | -58    | 0    | 194                         | -125   | 202 <span style="color:red">267</span> increase       |   |
|             | 2008 | 0                                | 22   | 47   |      | 68     |                                       |          |        |      | 68                          |  | 470   |   |
| Pacific Cod | 1999 | 262                              | 4676 | 5990 |      | 10,928 | -262                                  | -1,059   | -3,898 | 0    | 10,928                      | -5,220                                       | 11,905 <span style="color:red">-4,995</span> decrease |   |
|             | 2008 | 0                                | 3616 | 2092 |      | 5,708  |                                       |          |        |      | 5,708                       |  | 6,910   |   |

|                             |      |     |      |      |     |        |      |        |        |     |        |        |        |          |          |
|-----------------------------|------|-----|------|------|-----|--------|------|--------|--------|-----|--------|--------|--------|----------|----------|
| Atka Mackerel               | 1999 | 1   | 517  | 34   | 552 | -1     | -465 | -34    | 0      | 552 | -501   | 554    | -501   | decrease |          |
| Arrowtooth                  | 2008 | 0   | 51   | 1    | 52  |        |      |        |        | 52  |        | 53     |        |          |          |
| Flounder                    | 1999 | 2   | 46   | 54   | 102 | -2     | -18  | -33    | 0      | 102 | -53    | 119    | -41    | decrease |          |
|                             | 2008 | 0   | 28   | 21   | 49  |        |      |        |        | 49  |        | 78     |        |          |          |
| <i>Sum all four species</i> | 1999 | 266 | 5326 | 6183 | 0   | 11,776 | -266 | -1,609 | -4,023 | 0   | 11,776 | -5,898 | 12,781 | -5,270   | decrease |
|                             | 2008 | 0   | 3717 | 2160 | 0   | 5,878  |      |        |        |     | 5,878  |        | 7,511  |          |          |

Table IV-1999-2008-Area 5. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 5. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.



#### Proportion

| Area 5              |      | Per Cent of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2008 as % |          |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 5 | as % change in amt caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|----------|-------------------------------|----------|----------|-----------------|--|--------------------|------------------------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20    | Total CH |                 |  |                    |                                    |
| Pollock trawl       | 1999 | 0                                   | 0.5  | 64    | 0        | 64.5     | 573.80%                       | 27.00%   | 31.50%   | 42              | 709.60%                                    | 66                 | 515.80% increase                   |
|                     | 2008 | 0                                   | 3.4  | 81.3  | 0.1      | 84.8     |                               |          |          | 342             |  | 403                |                                    |
| P. Cod Trawl        | 1999 | 0                                   | 0    | 65.6  | 0        | 65.7     | -100.00%                      | 13.70%   | 13.50%   | 3,208           | 155.00%                                    | 4,886              | 124.60% increase                   |
|                     | 2008 | 0                                   | 0    | 74.5  | 0        | 74.5     |                               |          |          | 8,180           |  | 10,975             |                                    |
| P. Cod Pot          | 1999 | 54.9                                | 37.8 | 4.2   | 0.5      | 97.3     | -100.00%                      | -100.00% | -100.00% | 119             | -100.00%                                   | 122                | -100.00% decrease                  |
|                     | 2008 | 0                                   | 0    | 0     | 0        | 0        |                               |          |          | 0               |  | 0                  |                                    |
| P. Cod Longline     | 1999 | 1.4                                 | 35   | 58.2  | 0        | 94.6     | 23.50%                        | -21.00%  | -5.80%   | 2,207           | -65.80%                                    | 2,333              | -63.70% decrease                   |
|                     | 2008 | 0                                   | 43.2 | 46    | 0        | 89.2     |                               |          |          | 755             |  | 846                |                                    |
| Atka Mackerel Trawl | 1999 | 0                                   | 0    | 24.9  | 0        | 24.9     | -98.20%                       | -95.80%  | -95.80%  | 3,658           | -94.70%                                    | 14,674             | 27.10% increase                    |
|                     | 2008 | 0                                   | 0    | 1     | 0        | 1        |                               |          |          | 194             |  | 18,648             |                                    |

#### Amounts (mt)

| Area 5        |      | AMOUNT (mt) of Catch in CH areas |      |       |          |          | AMOUNT (mt) of change from 99 to 2008 |      |       |          | AMT (mt) catch in CH Area 5 | AMT change in amount of fish removed from CH | Total Catch Area 5 | as AMT (mt) change in total caught from '99 |
|---------------|------|----------------------------------|------|-------|----------|----------|---------------------------------------|------|-------|----------|-----------------------------|--|--------------------|---|
| Gear          | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH | 0-3                                   | 3-10 | 10-20 | Foraging |                             |  |                    |   |
| Pollock trawl | 1999 | 0                                | 0    | 42    | 0        | 42       | 0                                     | 14   | 286   | 0        | 42                          | 300  | 66                 | 338 increase                                |

|                     |      |    |     |      |   |       |     |      |        |    |       |        |          |
|---------------------|------|----|-----|------|---|-------|-----|------|--------|----|-------|--------|----------|
|                     |      |    |     |      |   |       |     |      |        |    |       |        |          |
| P. Cod Trawl        | 2008 | 0  | 14  | 328  | 0 | 342   | -2  | -2   | 4,976  | 0  | 342   | 403    |          |
|                     | 1999 | 2  | 2   | 3204 | 0 | 3,208 |     |      |        |    | 3,208 | 4,886  | 6,089    |
| P. Cod Pot          | 2008 | 0  | 0   | 8180 | 0 | 8,180 | -67 | -46  | -5     | -1 | 8,180 | 10,975 | increase |
|                     | 1999 | 67 | 46  | 5    | 1 | 119   |     |      |        |    | 119   | 122    | decrease |
| P. Cod Longline     | 2008 | 0  | 0   | 0    | 0 | 0     | -33 | -451 | -969   | 0  | 0     | 0      |          |
|                     | 1999 | 33 | 816 | 1358 | 0 | 2,207 |     |      |        |    | 2,207 | 2,333  | -1,486   |
| Atka Mackerel Trawl | 2008 | 0  | 366 | 389  | 0 | 755   | -5  | -3   | -3,456 | 0  | 755   | 846    | decrease |
|                     | 1999 | 5  | 3   | 3650 | 0 | 3,658 |     |      |        |    | 3,658 | 14,674 | 3,974    |
|                     |      |    |     |      |   |       |     |      |        |    | 194   | 18,648 | increase |

Table IV-1999-2008-Area 5 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 5. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.

#### Total Catch All Gear

Proportion

| Area 5              |      | Per Cent of Total Catch in CH areas |      |       |          |             | Change from 1999 to 2008 as % |         |          | AMT<br>catch in<br>CH | %<br>change<br>in<br>amount<br>of fish<br>removed<br>from CH | Total<br>Catch<br>Area 5 | as % change in amt<br>caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|-------------|-------------------------------|---------|----------|-----------------------|--|--------------------------|---------------------------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total<br>CH | 3-10                          | 10-20   | Total CH |                       |  |                          |                                       |
| Pollock             | 1999 | 0                                   | 3.5  | 67.7  | 0        | 71.3        | -2.70%                        | 20.00%  | 19.00%   | 47                    | 633.70%  | 66                       | 516.50% increase                      |
|                     | 2008 | 0                                   | 3.4  | 81.3  | 0.1      | 84.8        |                               |         |          | 343                   |  | 404                      |                                       |
| Pacific Cod         | 1999 | 1.4                                 | 11.8 | 62.2  | 0        | 75.4        | -73.70%                       | 16.50%  | 0.30%    | 5,535                 | 61.40%   | 7,341                    | 61.00% increase                       |
|                     | 2008 | 0                                   | 3.1  | 72.5  | 0        | 75.6        |                               |         |          | 8,935                 |  | 11,821                   |                                       |
| Atka Mackerel       | 1999 | 0                                   | 0    | 24.9  | 0        | 24.9        | -77.60%                       | -95.80% | -95.80%  | 3,660                 | -94.70%  | 14,677                   | 27.10% increase                       |
|                     | 2008 | 0                                   | 0    | 1     | 0        | 1           |                               |         |          | 196                   |  | 18,650                   |                                       |
| Arrowtooth Flounder | 1999 | 0                                   | 3.1  | 55.7  | 1.9      | 60.7        | 1257.30%                      | -6.90%  | 55.20%   | 155                   | 1115.20%   | 255                      | 683.00% increase                      |
|                     | 2008 | 0                                   | 41.9 | 51.8  | 0.4      | 94.2        |                               |         |          | 1,882                 |  | 1,998                    |                                       |
| % all four species  | 1999 | 0.5                                 | 3.9  | 37.6  | 0        | 42.1        | -5.80%                        | -18.10% | -17.90%  | 9,397                 | 20.80%   | 22,339                   | 47.20% increase                       |
|                     | 2008 | 0                                   | 3.7  | 30.8  | 0        | 34.5        |                               |         |          | 11,355                |  | 32,873                   |                                       |

Amounts (mt)

| Area 5               |      | AMOUNT (mt) of Catch in CH areas |      |       |          |             | AMOUNT (mt) of change from 99 to 2008 |      |        |          | AMT (mt)<br>catch in<br>CH Area<br>5 | AMT<br>change<br>in<br>amount<br>of fish<br>removed<br>from CH | Total<br>Catch<br>Area 5 | as AMT (mt)<br>change in total<br>caught from '99 |
|----------------------|------|----------------------------------|------|-------|----------|-------------|---------------------------------------|------|--------|----------|--------------------------------------|--|--------------------------|---|
| Gear                 | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total<br>CH | 0-3                                   | 3-10 | 10-20  | Foraging |                                      |  |                          |   |
| Pollock              | 1999 | 0                                | 2    | 44    | 0        | 47          | 0                                     | 12   | 284    | 0        | 47                                   | 296  | 66                       | 338 increase                                      |
|                      | 2008 | 0                                | 14   | 328   | 0        | 343         |                                       |      |        |          | 343                                  |  | 404                      |   |
| Pacific Cod          | 1999 | 102                              | 864  | 4568  | 1        | 5,535       | -102                                  | -498 | 4,002  | -1       | 5,535                                | 3,401  | 7,341                    | 4,480 increase                                    |
|                      | 2008 | 0                                | 366  | 8569  | 0        | 8,935       |                                       |      |        |          | 8,935                                |  | 11,821                   |   |
| Atka Mackerel        | 1999 | 5                                | 5    | 3650  | 0        | 3,660       | -5                                    | -4   | -3,456 | 0        | 3,660                                | -3,465   | 14,677                   | 3,973 increase                                    |
|                      | 2008 | 0                                | 2    | 194   | 0        | 196         |                                       |      |        |          | 196                                  |  | 18,650                   |   |
| Arrowtooth Flounder  | 1999 | 0                                | 8    | 142   | 5        | 155         | 0                                     | 830  | 894    | 3        | 155                                  | 1,727  | 255                      | 1,743 increase                                    |
|                      | 2008 | 0                                | 838  | 1,036 | 8        | 1,882       |                                       |      |        |          | 1,882                                |  | 1,998                    |   |
| Sum all four species | 1999 | 107                              | 880  | 8405  | 5        | 9,397       | -107                                  | 340  | 1,723  | 3        | 9,397                                | 1,959  | 22,339                   | 10,534 increase                                   |
|                      | 2008 | 0                                | 1219 | 10128 | 8        | 11,355      |                                       |      |        |          | 11,355                               |  | 32,873                   |   |

Table IV-1999-2008-6. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat by zones. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat areas including the foraging areas. Big 6 includes RCA's SSLCZ, NWBS, EBS, and 6.



Proportion

| Area - 6               |      | Per Cent of Total Catch in CH areas |      |       |          |             | Change from 1999 to 2008 as % |          |             | AMT<br>catch in<br>CH | %<br>change<br>in<br>amount<br>of fish<br>removed<br>from CH | Total Catch<br>Area 6 |         |          | as % change in amt<br>caught from '99 |  |  |
|------------------------|------|-------------------------------------|------|-------|----------|-------------|-------------------------------|----------|-------------|-----------------------|--|-----------------------|---------|----------|---------------------------------------|--|--|
| Gear                   | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total<br>CH | 3-10                          | 10-20    | Total<br>CH |                       |  |                       |         |          |                                       |  |  |
| Pollock trawl          | 1999 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 9    | 0                                   | 0    | 0.5   | 31.7     | 32.3        | 1224.40%                      | 1187.90% | -22.90%     | 319,578               | -23.20%  | 990,528               | -0.30%  | decrease |                                       |  |  |
| P. Cod Trawl           | 2000 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 8    | 0                                   | 0.6  | 6.8   | 17.5     | 24.9        |                               |          |             | 245,570               |  | 987,353               |         |          |                                       |  |  |
| P. Cod Pot             | 1999 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 9    | 0                                   | 0    | 1.5   | 34.2     | 35.8        | 2247.50%                      | 312.90%  | 31.50%      | 18,594                | -15.20%  | 52,008                | -35.50% | decrease |                                       |  |  |
| P. Cod Longline        | 2000 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 8    | 0                                   | 0.5  | 6.3   | 40.3     | 47          |                               |          |             | 15,766                |  | 33,535                |         |          |                                       |  |  |
| Atka Mackerel<br>Trawl | 1999 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 9    | 0                                   | 16.1 | 43.1  | 8.5      | 67.9        | -33.30%                       | -59.60%  | -28.90%     | 8,948                 | -2.10%   | 13,181                | 37.80%  | increase |                                       |  |  |
|                        | 2000 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 8    | 1                                   | 10.7 | 17.4  | 20       | 48.2        |                               |          |             | 8,762                 |  | 18,162                |         |          |                                       |  |  |
|                        | 1999 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 9    | 0                                   | 2.1  | 11.1  | 7.2      | 20.4        | -81.50%                       | -74.80%  | -54.00%     | 17,217                | -51.50%  | 84,349                | 5.30%   | increase |                                       |  |  |
|                        | 2000 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 8    | 0                                   | 0.4  | 2.8   | 6.2      | 9.4         |                               |          |             | 8,344                 |  | 88,794                |         |          |                                       |  |  |
|                        | 1999 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 9    | 0                                   | 0    | 91.3  | 2.6      | 94          | 2415.90%                      | -3.40%   | -4.30%      | 2,165                 | -84.10%  | 2,304                 | -83.40% | decrease |                                       |  |  |
|                        | 2000 |                                     |      |       |          |             |                               |          |             |                       |  |                       |         |          |                                       |  |  |
|                        | 8    | 0                                   | 0.2  | 88.2  | 1.6      | 89.9        |                               |          |             | 345                   |  | 383                   |         |          |                                       |  |  |

Amounts (mt)

| Area - 6      |      | AMOUNT (mt) of Catch in CH areas |      |       |          |             | AMOUNT (mt) of change from 99 to 2008 |       |        |          | AMT (mt)<br>catch in<br>CH Area<br>6 | AMT<br>change in<br>amount of<br>fish<br>removed<br>from CH | Total<br>Catch Area<br>6 | as AMT (mt) change<br>in total caught from<br>'99 |          |  |
|---------------|------|----------------------------------|------|-------|----------|-------------|---------------------------------------|-------|--------|----------|--------------------------------------|---|--------------------------|---|----------|--|
| Gear          | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total<br>CH | 0-3                                   | 3-10  | 10-20  | Foraging |                                      |   |                          |   |          |  |
| Pollock trawl | 1999 |                                  |      |       |          |             |                                       |       |        |          |                                      |   |                          |   |          |  |
|               | 9    | 0                                | 432  | 5222  | 313924   | 319,578     | 0                                     | 5,270 | 61,814 | -141,092 | 319,578                              | -74,007   | 990,528                  | -3,174  | decrease |  |
| P. Cod Trawl  | 2000 |                                  |      |       |          |             |                                       |       |        |          |                                      |   |                          |   |          |  |
|               | 8    | 0                                | 5702 | 67036 | 172832   | 245,570     |                                       |       |        |          | 245,570                              |   | 987,353                  |   |          |  |
|               | 1999 |                                  |      |       |          |             |                                       |       |        |          |                                      |   |                          |   |          |  |
|               | 9    | 0                                | 11   | 788   | 17795    | 18,594      | 0                                     | 151   | 1,310  | -4,290   | 18,594                               | -2,828  | 52,008                   | -18,472   | decrease |  |
|               | 2000 |                                  |      |       |          |             |                                       |       |        |          |                                      |   |                          |   |          |  |
|               | 8    | 0                                | 162  | 2098  | 13505    | 15,766      |                                       |       |        |          | 15,766                               |   | 33,535                   |   |          |  |

|                        |                      |    |      |      |      |        |     |        |        |       |        |        |        |       |          |
|------------------------|----------------------|----|------|------|------|--------|-----|--------|--------|-------|--------|--------|--------|-------|----------|
| P. Cod Pot             | 199<br>9<br>200<br>8 | 29 | 2123 | 5675 | 1120 | 8,948  | -16 | -173   | -2,516 | 2,519 | 8,948  | -185   | 13,181 | 4,981 | increase |
| P. Cod Longline        | 199<br>9<br>200<br>8 | 13 | 1950 | 3159 | 3640 | 8,762  |     |        |        |       | 8,762  |        | 18,162 |       |          |
| Atka Mackerel<br>Trawl | 199<br>9<br>200<br>8 | 16 | 1772 | 9342 | 6087 | 17,217 | -5  | -1,428 | -6,868 | -573  | 17,217 | -8,873 | 84,349 | 4,445 | increase |

Table IV-1999-2008-6 (continued).

**Total Catch All Gear**

Proportion

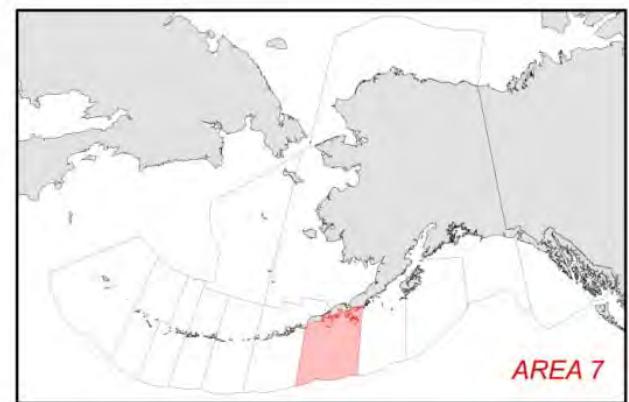
| Area - 6            |      | Per Cent of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2008 as % |           |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 6 | as % change in amt caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|----------|-------------------------------|-----------|----------|-----------------|--|--------------------|------------------------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20     | Total CH |                 |  |                    |                                    |
| Pollock             | 1999 | 0                                   | 0    | 0.6   | 31.6     | 32.2     | 1101.40%                      | 1108.70 % | -22.90%  | 320,246         | -23.00%                                    | 994,545            | -0.20% decrease                    |
|                     | 2008 | 0                                   | 0.6  | 6.8   | 17.5     | 24.8     |                               |           |          | 246,522         |  | 992,601            |                                    |
| Pacific Cod         | 1999 | 0                                   | 2.6  | 10.6  | 16.7     | 29.9     | -33.10%                       | -47.90%   | -21.80%  | 44,758          | -26.60%                                    | 149,538            | -6.00% decrease                    |
|                     | 2008 | 0                                   | 1.7  | 5.5   | 16.1     | 23.4     |                               |           |          | 32,872          |  | 140,492            |                                    |
| Atka Mackerel       | 1999 | 0                                   | 0.3  | 91.1  | 2.7      | 94       | 4156.50%                      | -13.40%   | -3.00%   | 2,175           | -81.20%                                    | 2,314              | -80.70% decrease                   |
|                     | 2008 | 0                                   | 10.9 | 78.9  | 1.4      | 91.2     |                               |           |          | 408             |  | 447                |                                    |
| Arrowtooth Flounder | 1999 | 0                                   | 2.4  | 20.9  | 19.5     | 42.9     | 770.10%                       | -19.10%   | 26.30%   | 4,862           | 116.10%                                    | 11,330             | 71.10% increase                    |
|                     | 2008 | 0                                   | 21.2 | 16.9  | 16.1     | 54.2     |                               |           |          | 10,509          |  | 19,387             |                                    |
| % all four species  | 1999 | 0                                   | 0.4  | 2.2   | 29.5     | 32.1     | 165.30%                       | 204.90%   | -21.60%  | 372,041         | -22.00%                                    | 1,157,727          | -0.40% decrease                    |
|                     | 2008 | 0                                   | 1.1  | 6.8   | 17.3     | 25.2     |                               |           |          | 290,310         |  | 1,152,928          |                                    |

**Amounts (mt)**

| Area - 6             |      | AMOUNT (mt) of Catch in CH areas |       |       |          |          | AMOUNT (mt) of change from 99 to 2008 |        |        | AMT (mt) catch in CH Area 6 | AMT change in amount of fish removed from CH | Total Catch Area 6 | as AMT (mt) change in total caught from '99 |                 |
|----------------------|------|----------------------------------|-------|-------|----------|----------|---------------------------------------|--------|--------|-----------------------------|--|--------------------|---|-----------------|
| Gear                 | Year | 0-3                              | 3-10  | 10-20 | Foraging | Total CH | 0-3                                   | 3-10   | 10-20  | Foraging                    |  |                    |   |                 |
| Pollock              | 1999 | 0                                | 476   | 5564  | 314205   | 320,246  | 0                                     | 5,232  | 61,556 | -140,512                    | 320,246                                      | -73,724            | 994,545                                     | -1,944 decrease |
|                      | 2008 | 0                                | 5708  | 6712  | 173693   | 246,522  |                                       |        |        |                             | 246,522                                      |                    | 992,601                                     |                 |
| Pacific Cod          | 1999 | 4                                | 1580  | 5     | 25002    | 44,758   | -21                                   | -1,449 | -8,073 | -2,343                      | 44,758                                       | -11,887            | 149,538                                     | -9,046 decrease |
|                      | 2008 | 4                                | 2457  | 7732  | 22659    | 32,872   |                                       |        |        |                             | 32,872                                       |                    | 140,492                                     |                 |
| Atka Mackerel        | 1999 | 0                                | 6     | 2107  | 62       | 2,175    | 0                                     | 43     | -1,754 | -56                         | 2,175  | -1,767             | 2,314                                       | -1,867 decrease |
|                      | 2008 | 0                                | 49    | 353   | 6        | 408      |                                       |        |        |                             | 408  |                    | 447   |                 |
| Arrowtooth Flounder  | 1999 | 3                                | 276   | 2,371 | 2,211    | 4,862    | -2                                    | 3,834  | 913    | 902                         | 4,862  | 5,647              | 11,330                                      | 8,058 increase  |
|                      | 2008 | 1                                | 4,110 | 3,284 | 3,113    | 10,509   |                                       |        |        |                             | 10,509                                       |                    | 19,387                                      |                 |
| Sum all four species | 1999 | 4                                | 4664  | 2584  | 341481   | 372,041  | -23                                   | 7,660  | 52,642 | -142,010                    | 372,041                                      | -81,731            | 1,157,72                                    | -4,799 decrease |

|               |             |                |                |                  |  |  |         |  |                    |   |
|---------------|-------------|----------------|----------------|------------------|--|--|---------|--|--------------------|---|
| 9<br>200<br>8 | 8<br>2<br>5 | 8<br>1232<br>4 | 8<br>7848<br>9 | 1<br>290,31<br>0 |  |  | 290,310 |  | 7<br>1,152,92<br>8 | e |
|---------------|-------------|----------------|----------------|------------------|--|--|---------|--|--------------------|---|

Table IV-1999-2008-Area 7. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 7. A negative indicates a reduction, positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 7.



#### Proportion

| Area 7              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |         |         | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 7 | as % change in amt caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|---------|---------|-----------------|--|--------------------|------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10    | 10-20   | Total CH        |  |                    |                                    |                  |
| Pollock trawl       | 1999 | 9                                   | 48.8 | 37.9  |          | 95.7                          | -12.10% | -29.50% | -27.30%         | 17,574                                     | -45.10%            | 18,361                             | -24.50% decrease |
|                     | 2008 | 0                                   | 42.9 | 26.7  |          | 69.6                          |         |         |                 | 9,642                                      |                    | 13,857                             |                  |
| P. Cod Trawl        | 1999 | 4.5                                 | 52.6 | 39.5  |          | 96.6                          | 0.70%   | -58.60% | -28.30%         | 14,474                                     | -76.00%            | 14,983                             | -66.50% decrease |
|                     | 2008 | 0                                   | 52.9 | 16.4  |          | 69.3                          |         |         |                 | 3,472                                      |                    | 5,012                              |                  |
| P. Cod Pot          | 1999 | 0.8                                 | 80.9 | 3.3   |          | 85                            | -72.40% | 852.40% | -36.50%         | 1,444                                      | 263.30%            | 1,698                              | 472.40% increase |
|                     | 2008 | 0.3                                 | 22.3 | 31.4  |          | 54                            |         |         |                 | 5,245                                      |                    | 9,718                              |                  |
| P. Cod Longline     | 1999 | 0                                   | 7.7  | 33.4  |          | 41.1                          | -95.90% | 151.10% | 105.10%         | 1,316                                      | 151.70%            | 3,203                              | 22.70% increase  |
|                     | 2008 | 0                                   | 0.3  | 84    |          | 84.3                          |         |         |                 | 3,313                                      |                    | 3,931                              |                  |
| Atka Mackerel Trawl | 1999 | 41.6                                | 4.8  | 0     |          | 46.5                          | 110.10% | 100%    | -22.60%         | 118  | 421.60%            | 255                                | 574.00% increase |
|                     | 2008 | 0                                   | 10.1 | 25.9  |          | 36                            |         |         |                 | 617  |                    | 1,716                              |                  |

#### Amounts (mt)

| Area 7        |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |        |        |          | AMT (mt) catch in CH Area 7 | AMT change in amount of fish removed from CH | Total Catch Area 7 | as AMT (mt) change in total caught from '99 |
|---------------|------|----------------------------------|------|-------|----------|---------------------------------------|--------|--------|----------|-----------------------------|--|--------------------|---|
| Gear          | Year | 0-3                              | 3-10 | 10-20 | Foraging | 0-3                                   | 3-10   | 10-20  | Foraging |                             |  |                    |   |
| Pollock trawl | 1999 | 1656                             | 8951 | 6966  |          | 17,574                                | -1,656 | -3,013 | -3,262   | 17,574                      | -7,931                                       | 18,361             | -4,504 decrease                             |
|               | 2008 | 0                                | 5938 | 3704  |          | 9,642                                 |        |        |          | 9,642                       |  | 13,857             |   |
| P. Cod Trawl  | 1999 | 674                              | 7874 | 5926  |          | 14,474                                | -674   | -5,223 | -5,105   | 14,474                      | -11,002                                      | 14,983             | -9,971 decrease                             |
|               | 2008 | 0                                | 2651 | 821   |          | 3,472                                 |        |        |          | 3,472                       |  | 5,012              |   |
| P. Cod Pot    | 1999 | 13                               | 1374 | 56    |          | 1,444                                 | 12     | 793    | 2,996    | 1,444                       | 3,801  | 1,698              | 8,020 increase                              |

|                     |      |     |      |      |       |      |      |       |       |       |       |                |
|---------------------|------|-----|------|------|-------|------|------|-------|-------|-------|-------|----------------|
|                     | 2008 | 26  | 2167 | 3052 | 5,245 |      |      |       | 5,245 |       | 9,718 |                |
| P. Cod Longline     | 1999 | 0   | 245  | 1071 | 1,316 | 0    | -233 | 2,230 | 1,316 | 1,997 | 3,203 | 728 increase   |
|                     | 2008 | 0   | 12   | 3301 | 3,313 |      |      |       | 3,313 |       | 3,931 |                |
| Atka Mackerel Trawl | 1999 | 106 | 12   | 0    | 118   | -106 | 161  | 444   | 118   | 499   | 255   | 1,461 increase |
|                     | 2008 | 0   | 173  | 444  | 617   |      |      |       | 617   |       | 1,716 |                |

Table IV-1999-2008-Area 7 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 7. A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 7.

#### Total Catch All Gear

Proportion

| Area 7              |      | Per Cent of Total Catch in CH areas |      |       |          |          | Change from 1999 to 2008 as % |         |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 7 | as % change in amt caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|----------|-------------------------------|---------|----------|-----------------|--|--------------------|------------------------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH | 3-10                          | 10-20   | Total CH |                 |  |                    |                                    |
| Pollock             | 1999 | 9                                   | 48.7 | 37.9  | 0        | 95.7     | -11.70%                       | -29.30% | -27.00%  | 17,579          | -44.40%                                    | 18,370             | -23.90% decrease                   |
|                     | 2008 | 0                                   | 43   | 26.8  | 0        | 69.9     |                               |         |          | 9,771           |  | 13,986             |                                    |
| Pacific Cod         | 1999 | 3.5                                 | 47.7 | 35.5  | 0        | 86.7     | -45.80%                       | 8.40%   | -25.60%  | 17,234          | -30.20%                                    | 19,884             | -6.20% decrease                    |
|                     | 2008 | 0.1                                 | 25.9 | 38.4  | 0        | 64.5     |                               |         |          | 12,030          |  | 18,661             |                                    |
| Atka Mackerel       | 1999 | 41.6                                | 4.8  | 0     | 0        | 46.5     | 108.30%                       | 100%    | -21.40%  | 118             | 435.20%                                    | 255                | 581.20% increase                   |
|                     | 2008 | 0                                   | 10   | 26.5  | 0        | 36.5     |                               |         |          | 633             |  | 1,734              |                                    |
| Arrowtooth Flounder | 1999 | 1.3                                 | 20.8 | 25.1  | 0        | 47.3     | 1.40%                         | -47.80% | -27.60%  | 1,378           | -27.50%                                    | 2,917              | 0.10% increase                     |
|                     | 2008 | 0                                   | 21.1 | 13.1  | 0        | 34.2     |                               |         |          | 999             |  | 2,919              |                                    |
| % all four species  | 1999 | 6.2                                 | 47.8 | 37    | 0        | 91.1     | -32.27%                       | -11.40% | -28.30%  | 36,309          | -35.50%                                    | 41,426             | -10.00% decrease                   |
|                     | 2008 | 0.1                                 | 31.2 | 31.5  | 0        | 62.8     |                               |         |          | 23,433          |  | 37,301             |                                    |

Amounts (mt)

| Area 7               |      | AMOUNT (mt) of Catch in CH areas |       |       |          |          | AMOUNT (mt) of change from 99 to 2008 |        |        |          | AMT (mt) catch in CH Area 7 | AMT change in amount of fish removed from CH | Total Catch Area 7 | as AMT (mt) change in total caught from '99 |
|----------------------|------|----------------------------------|-------|-------|----------|----------|---------------------------------------|--------|--------|----------|-----------------------------|--|--------------------|---|
| Gear                 | Year | 0-3                              | 3-10  | 10-20 | Foraging | Total CH | 0-3                                   | 3-10   | 10-20  | Foraging |                             |  |                    |   |
| Pollock              | 1999 | 1656                             | 8952  | 6970  | 0        | 17,579   | -1,656                                | -2,933 | -3,219 | 0        | 17,579                      | -7,808                                       | 18,370             | -4,384 decrease                             |
|                      | 2008 | 0                                | 6020  | 3751  | 0        | 9,771    |                                       |        |        |          | 9,771                       |  | 13,986             |   |
| Pacific Cod          | 1999 | 687                              | 9494  | 7053  | 0        | 17,234   | -662                                  | -4,663 | 120    | 0        | 17,234                      | -5,204                                       | 19,884             | -1,223 decrease                             |
|                      | 2008 | 26                               | 4831  | 7173  | 0        | 12,030   |                                       |        |        |          | 12,030                      |  | 18,661             |   |
| Atka Mackerel        | 1999 | 106                              | 12    | 0     | 0        | 118      | -106                                  | 161    | 459    | 0        | 118                         | 515  | 255                | 1,480 increase                              |
|                      | 2008 | 0                                | 174   | 459   | 0        | 633      |                                       |        |        |          | 633                         |  | 1,734              |   |
| Arrowtooth Flounder  | 1999 | 38                               | 607   | 733   | 0        | 1,378    | -38                                   | 9      | -351   | 0        | 1,378                       | -379   | 2,917              | 2 increase                                  |
|                      | 2008 | 0                                | 616   | 383   | 0        | 999      |                                       |        |        |          | 999                         |  | 2,919              |   |
| Sum all four species | 1999 | 2487                             | 19066 | 14756 | 0        | 36,309   | -2,462                                | -7,425 | -2,989 | 0        | 36,309                      | -12,876                                      | 41,426             | -4,125 decrease                             |

|      |    |       |       |   |        |  |        |  |        |
|------|----|-------|-------|---|--------|--|--------|--|--------|
| 2008 | 26 | 11641 | 11767 | 0 | 23,433 |  | 23,433 |  | 37,301 |
|------|----|-------|-------|---|--------|--|--------|--|--------|

Table IV-1999-2008-Area 8. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 8. A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.



#### Proportion

| Area 8              |      | Per Cent of Total Catch in CH areas |      |       |          |             | Change from 1999 to 2008 as % |          |             | AMT<br>catch in<br>CH | % change in amount of<br>fish removed from CH | Total Catch<br>Area 8 | as % change in amt<br>caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|-------------|-------------------------------|----------|-------------|-----------------------|---|-----------------------|---------------------------------------|
| Gear                | Year | 0-<br>3                             | 3-10 | 10-20 | Foraging | Total<br>CH | 3-10                          | 10-20    | Total<br>CH |                       |   |                       |                                       |
| Pollock trawl       | 1999 | 0                                   | 2.1  | 39.3  | 39       | 80.4        | 45.00%                        | 2.40%    | -26.50%     | 30,783                | -67.00%                                       | 38,300                | -55.10% decrease                      |
|                     | 2008 | 0                                   | 3    | 40.2  | 15.9     | 59.1        |                               |          |             | 10,164                |   | 17,194                |                                       |
| P. Cod Trawl        | 1999 | 0                                   | 3    | 15.5  | 10.2     | 28.7        | -78.10%                       | -11.30%  | -21.60%     | 946                   | -33.50%                                       | 3,290                 | -15.20% decrease                      |
|                     | 2008 | 0                                   | 0.7  | 13.8  | 8.1      | 22.5        |                               |          |             | 629                   |   | 2,790                 |                                       |
| P. Cod Pot          | 1999 | 1                                   | 4.1  | 15.9  | 28.1     | 49.1        | -100.00%                      | -100.00% | -100.00%    | 4,095                 | -100.00%                                      | 8,343                 | -100.00% decrease                     |
|                     | 2008 | 0                                   | 0    | 0     | 0        | 0           |                               |          |             | 0                     |   | 0                     |                                       |
| P. Cod Longline     | 1999 | 0                                   | 0.7  | 41.1  | 0        | 41.7        | -71.50%                       | -95.40%  | 119.50%     | 139                   | 5630.00%                                      | 333                   | 2510.80% increase                     |
|                     | 2008 | 0                                   | 0.2  | 1.9   | 89.5     | 91.6        |                               |          |             | 7,963                 |   | 8,692                 |                                       |
| Atka Mackerel Trawl | 1999 | 0                                   | 0    | 7.5   | 0        | 7.5         | 0.00%                         | -98.80%  | -98.60%     | 0                     | +trace%                                       | 0                     | 100.00% increase                      |
|                     | 2008 | 0                                   | 0    | 0.1   | 0        | 0.1         |                               |          |             | 0.3                   |   | 316                   |                                       |

#### Amounts (mt)

| Area 8        |      | AMOUNT (mt) of Catch in CH areas |      |       |          |             | AMOUNT (mt) of change from 99 to 2008 |      |        |          | AMT (mt) catch in<br>CH Area 8 | AMT<br>change in<br>amount of<br>fish removed<br>from CH | Total Catch<br>Area 8 | as AMT (mt)<br>change in total<br>caught from '99 |
|---------------|------|----------------------------------|------|-------|----------|-------------|---------------------------------------|------|--------|----------|--------------------------------|--|-----------------------|---|
| Gear          | Year | 0-<br>3                          | 3-10 | 10-20 | Foraging | Total<br>CH | 0-3                                   | 3-10 | 10-20  | Foraging |                                |  |                       |   |
| Pollock trawl | 1999 | 0                                | 787  | 15057 | 14939    | 30,783      | 0                                     | -275 | -8,136 | -12,208  | 30,783                         | -20,619  | 38,300                | -21,106 decrease                                  |
|               | 2008 | 0                                | 513  | 6920  | 2731     | 10,164      |                                       |      |        |          | 10,164                         |  | 17,194                |   |
| P. Cod Trawl  | 1999 | 0                                | 99   | 511   | 336      | 946         | 0                                     | -80  | -127   | -110     | 946                            | -317   | 3,290                 | -500 decrease                                     |
|               | 2008 | 0                                | 18   | 384   | 226      | 629         |                                       |      |        |          | 629                            |  | 2,790                 |   |
| P. Cod Pot    | 1999 | 82                               | 341  | 1326  | 2346     | 4,095       | -82                                   | -341 | -1,326 | -2,346   | 4,095                          | -4,095   | 8,343                 | -8,343 decrease                                   |
|               | 2008 | 0                                | 0    | 0     | 0        | 0           |                                       |      |        |          | 0                              |  | 0                     |   |

|                     |      |   |    |     |      |       |   |    |    |       |       |       |       |       |          |
|---------------------|------|---|----|-----|------|-------|---|----|----|-------|-------|-------|-------|-------|----------|
| P. Cod Longline     | 1999 | 0 | 2  | 137 | 0    | 139   | 0 | 15 | 29 | 7,780 | 139   | 7,824 | 333   | 8,359 | increase |
|                     | 2008 | 0 | 17 | 166 | 7780 | 7,963 |   |    |    |       | 7,963 |       | 8,692 |       |          |
| Atka Mackerel Trawl | 1999 | 0 | 0  | 0   | 0    | 0     | 0 | 0  | 0  | 0     | 0     | 0.331 | 0     | 316   | 316      |
|                     | 2008 | 0 | 0  | 0   | 0    | 0.3   |   |    |    |       | 0.3   |       |       |       |          |

Table IV-1999-2008-Area 8 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 8 A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.

**Total Catch All Gear**

Proportion

| Area 8              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |         | AMT<br>catch in<br>CH | % change in<br>amount of<br>fish<br>removed<br>from CH | Total<br>Catch Area<br>8 | as % change in amt<br>caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|---------|-----------------------|--|--------------------------|---------------------------------------|------------------|
| Gear                | Year | 0-<br>3                             | 3-10 | 10-20 | Foraging | Total<br>CH                   | 3-10     | 10-20   | Total CH              |  |                          |                                       |                  |
| Pollock             | 1999 | 0                                   | 2.1  | 39.3  | 39       | 80.4                          | 44.80%   | 2.20%   | -26.40%               | 30,789   | -66.90%                  | 38,312                                | -55.00% decrease |
|                     | 2008 | 0                                   | 3    | 40.2  | 16       | 59.2                          |          |         |                       | 10,194   |                          | 17,225                                |                  |
| Pacific Cod         | 1999 | 0.7                                 | 3.7  | 16.5  | 22.4     | 43.3                          | -91.70%  | -71.00% | 72.90%                | 5,180  | 65.90%                   | 11,965                                | -4.00% decrease  |
|                     | 2008 | 0                                   | 0.3  | 4.8   | 69.7     | 74.8                          |          |         |                       | 8,591  |                          | 11,481                                |                  |
| Atka Mackerel       | 1999 | 0                                   | 0    | 5.4   | 0        | 5.4                           | 0.00%    | -98.30% | -98.10%               | 0  | +trace                   | 0                                     | 100.00% increase |
|                     | 2008 | 0                                   | 0    | 0.1   | 0        | 0.1                           |          |         |                       | 0.3  |                          | 316                                   |                  |
| Arrowtooth Flounder | 1999 | 0                                   | 0.4  | 29.5  | 24.9     | 54.8                          | 1291.40% | 37.40%  | 5.00%                 | 2,388  | 2.40%                    | 4,360                                 | -2.50% decrease  |
|                     | 2008 | 0                                   | 5.8  | 40.5  | 11.2     | 57.5                          |          |         |                       | 2,446  |                          | 4,253                                 |                  |
| % all four species  | 1999 | 0.2                                 | 2.3  | 33.5  | 34.2     | 70.2                          | 4.60%    | -17.60% | -9.10%                | 38,357   | -44.60%                  | 54,638                                | -39.10% decrease |
|                     | 2008 | 0                                   | 2.4  | 27.6  | 33.8     | 63.8                          |          |         |                       | 21,232   |                          | 33,276                                |                  |

Amounts (mt)

| Area 8               |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |     |      |        | AMT (mt)<br>catch in CH<br>Area 8 | AMT<br>change in<br>amount of<br>fish<br>removed<br>from CH | Total<br>Catch Area<br>8 | as AMT (mt) change<br>in total caught from<br>'99 |                  |
|----------------------|------|----------------------------------|------|-------|----------|---------------------------------------|-----|------|--------|-----------------------------------|---|--------------------------|---|------------------|
| Gear                 | Year | 0-<br>3                          | 3-10 | 10-20 | Foraging | Total<br>CH                           | 0-3 | 3-10 | 10-20  | Foraging                          |   |                          |   |                  |
| Pollock              | 1999 | 0                                | 787  | 15060 | 14941    | 30,789                                | 0   | -275 | -8,139 | -12,181                           | 30,789  | -20,594                  | 38,312  | -21,087 decrease |
|                      | 2008 | 0                                | 513  | 6922  | 2760     | 10,194                                |     |      |        |                                   | 10,194  |                          | 17,225  |                  |
| Pacific Cod          | 1999 | 82                               | 442  | 1974  | 2682     | 5,180                                 | -82 | -407 | -1,424 | 5,324                             | 5,180   | 3,412                    | 11,965  | -484 decrease    |
|                      | 2008 | 0                                | 35   | 550   | 8006     | 8,591                                 |     |      |        |                                   | 8,591   |                          | 11,481  |                  |
| Atka Mackerel        | 1999 | 0                                | 0    | 0     | 0        | 0                                     | 0   | 0    | 0      | 0                                 | 0   | +trace                   | 0   | 316 increase     |
|                      | 2008 | 0                                | 0    | 0     | 0        | 0.3                                   |     |      |        |                                   | 0.3   |                          | 316   |                  |
| Arrowtooth Flounder  | 1999 | 1                                | 18   | 1,284 | 1,084    | 2,388                                 | -1  | 229  | 437    | -607                              | 2,388   | 58                       | 4,360   | -107 decrease    |
|                      | 2008 | 0                                | 248  | 1,721 | 477      | 2,446                                 |     |      |        |                                   | 2,446   |                          | 4,253   |                  |
| Sum all four species | 1999 | 83                               | 1248 | 18319 | 18707    | 38,357                                | -83 | -453 | -9,125 | -7,464                            | 38,357  | -17,125                  | 54,638  | -21,362 decrease |
|                      | 2008 | 0                                | 795  | 9194  | 11243    | 21,232                                |     |      |        |                                   | 21,232  |                          | 33,276  |                  |

Table IV-1999-2008-Area 9. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 9. A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.



Proportion

| Area 9              |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |         |        | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 9 | as % change in amt caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|---------|--------|-----------------|--|--------------------|------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10    | 10-20  | Total CH        |  |                    |                                    |                  |
| Pollock trawl       | 1999 | 0.7                                 | 17.3 | 77.1  | 0.2      | 95.3                          | -60.20% | -6.50% | -16.10%         | 27,528                                     | -53.10%            | 28,876                             | -44.10% decrease |
|                     | 2008 | 1                                   | 6.9  | 72.1  | 0        | 80                            |         |        |                 | 12,924                                     |                    | 16,152                             |                  |
| P. Cod Trawl        | 1999 | 0.2                                 | 6.4  | 20.8  | 0        | 27.4                          | 94.40%  | 24.30% | 40.10%          | 4,912                                      | -4.00%             | 17,937                             | -31.50% decrease |
|                     | 2008 | 0                                   | 12.4 | 25.9  | 0.1      | 38.4                          |         |        |                 | 4,713                                      |                    | 12,287                             |                  |
| P. Cod Pot          | 1999 | 0                                   | 11.6 | 19    | 0        | 30.6                          | -84.20% | 91.50% | 26.10%          | 1,967                                      | 20.20%             | 6,428                              | -4.70% decrease  |
|                     | 2008 | 0.4                                 | 1.8  | 36.4  | 0        | 38.6                          |         |        |                 | 2,364                                      |                    | 6,127                              |                  |
| P. Cod Longline     | 1999 | 0                                   | 47.6 | 43.5  | 0        | 91.1                          | -51.80% | 31.30% | -12.20%         | 5,479                                      | -15.10%            | 6,012                              | -3.30% decrease  |
|                     | 2008 | 0                                   | 23   | 57.1  | 0        | 80                            |         |        |                 | 4,651                                      |                    | 5,812                              |                  |
| Atka Mackerel Trawl | 1999 | 0                                   | 0    | 0     | 0        | 0                             | 100%    | 100%   | 100%            | 0  | 100%               | 1                                  | 609.80% increase |
|                     | 2008 | 0                                   | 3.7  | 11.1  | 0        | 14.8                          |         |        |                 | 1  |                    | 4                                  |                  |

Amounts (mt)

| Area 9              |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |     |        |         | AMT (mt) catch in CH Area 9 | AMT change in amount of fish removed from CH | Total Catch Area 9 | as AMT (mt) change in total caught from '99 |                  |
|---------------------|------|----------------------------------|------|-------|----------|---------------------------------------|-----|--------|---------|-----------------------------|--|--------------------|---|------------------|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | Total CH                              | 0-3 | 3-10   | 10-20   | Foraging                    |  |                    |   |                  |
| Pollock trawl       | 1999 | 200                              | 4993 | 22272 | 62       | 27,528                                | -38 | -3,881 | -10,630 | -56                         | 27,528                                       | -14,604            | 28,876                                      | -12,725 decrease |
|                     | 2008 | 162                              | 1113 | 11642 | 7        | 12,924                                |     |        |         |                             | 12,924                                       |                    | 16,152                                      |                  |
| P. Cod Trawl        | 1999 | 35                               | 1145 | 3732  | 0        | 4,912                                 | -35 | 379    | -556    | 13                          | 4,912  | -199               | 17,937                                      | -5,651 decrease  |
|                     | 2008 | 0                                | 1524 | 3176  | 13       | 4,713                                 |     |        |         |                             | 4,713  |                    | 12,287                                      |                  |
| P. Cod Pot          | 1999 | 3                                | 744  | 1220  | 0        | 1,967                                 | 21  | -632   | 1,007   | 0                           | 1,967  | 397                | 6,428                                       | -301 decrease    |
|                     | 2008 | 24                               | 112  | 2227  | 0        | 2,364                                 |     |        |         |                             | 2,364  |                    | 6,127                                       |                  |
| P. Cod Longline     | 1999 | 2                                | 2862 | 2614  | 0        | 5,479                                 | -2  | -1,528 | 703     | 0                           | 5,479  | -827               | 6,012                                       | -200 decrease    |
|                     | 2008 | 0                                | 1334 | 3317  | 0        | 4,651                                 |     |        |         |                             | 4,651  |                    | 5,812                                       |                  |
| Atka Mackerel Trawl | 1999 | 0                                | 0    | 0     | 0        | 0                                     | 0   | 0      | 0       | 0                           | 0  | 1                  | 3   | increase         |
|                     | 2008 | 0                                | 0    | 0     | 0        | 1                                     |     |        |         |                             | 1  |                    | 4   |                  |

Table IV-1999-2008-Area 9 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 9 A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat.

#### Total Catch All Gear

Proportion

| Area 9              |      | Per Cent of Total Catch in CH areas |      |       |          |             | Change from 1999 to 2008 as % |         |          | AMT<br>catch in<br>CH | %<br>change<br>in<br>amount<br>of fish<br>removed<br>from CH | Total Catch<br>Area 9 | as % change in amt<br>caught from '99 |
|---------------------|------|-------------------------------------|------|-------|----------|-------------|-------------------------------|---------|----------|-----------------------|--|-----------------------|---------------------------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total<br>CH | 3-10                          | 10-20   | Total CH |                       |  |                       |                                       |
| Pollock             | 1999 | 0.7                                 | 17.4 | 77.5  | 0.2      | 95.8        | -57.50%                       | -7.30%  | -16.20%  | 27,650                | -52.70%  | 28,876                | -43.50% decrease                      |
|                     | 2008 | 1                                   | 7.4  | 71.8  | 0        | 80.2        |                               |         |          | 13,084                |  | 16,314                |                                       |
| Pacific Cod         | 1999 | 0.1                                 | 15.6 | 24.9  | 0        | 40.7        | -21.60%                       | 44.50%  | 19.00%   | 12,357                | -5.10%   | 30,377                | -20.30% decrease                      |
|                     | 2008 | 0.1                                 | 12.3 | 36    | 0.1      | 48.4        |                               |         |          | 11,728                |  | 24,226                |                                       |
| Atka Mackerel       | 1999 | 0                                   | 0    | 0     | 0        | 0           | 100%                          | 100%    | 100%     | 0                     | 100%   | 1                     | 609.80% increase                      |
|                     | 2008 | 0                                   | 3.7  | 11.1  | 0        | 14.8        |                               |         |          | 1                     |  | 4                     |                                       |
| Arrowtooth Flounder | 1999 | 0.1                                 | 4.7  | 12.9  | 0        | 17.7        | 51.50%                        | 63.00%  | 70.60%   | 1,272                 | 422.90%  | 7,192                 | 206.50% increase                      |
|                     | 2008 | 0                                   | 7.1  | 21    | 2.1      | 30.2        |                               |         |          | 6,653                 |  | 22,043                |                                       |
| % all four species  | 1999 | 0.4                                 | 15.2 | 46.4  | 0.1      | 62.1        | -39.80%                       | -13.80% | -19.10%  | 41,279                | -23.80%  | 66,445                | -5.80% decrease                       |
|                     | 2008 | 0.3                                 | 9.2  | 40.1  | 0.8      | 50.3        |                               |         |          | 31,466                |  | 62,586                |                                       |

#### Amounts (mt)

| Area 9               |      | AMOUNT (mt) of Catch in CH areas |       |       |          |             | AMOUNT (mt) of change from 99 to 2008 |        |         |          | AMT (mt)<br>catch in<br>CH Area<br>9 | AMT<br>change in<br>amount of<br>fish<br>removed<br>from CH | Total<br>Catch<br>Area 9 | as AMT (mt) change<br>in total caught from<br>'99 |
|----------------------|------|----------------------------------|-------|-------|----------|-------------|---------------------------------------|--------|---------|----------|--------------------------------------|---|--------------------------|---|
| Gear                 | Year | 0-3                              | 3-10  | 10-20 | Foraging | Total<br>CH | 0-3                                   | 3-10   | 10-20   | Foraging |                                      |   |                          |   |
| Pollock              | 1999 | 200                              | 5021  | 22366 | 62       | 27,650      | -38                                   | -3,816 | -10,656 | -56      | 27,650                               | -14,566   | 28,876                   | -12,562 decrease                                  |
|                      | 2008 | 162                              | 1205  | 11710 | 7        | 13,084      |                                       |        |         |          | 13,084                               |   | 16,314                   |   |
| Pacific Cod          | 1999 | 40                               | 4751  | 7566  | 0        | 12,357      | -16                                   | -1,780 | 1,155   | 13       | 12,357                               | -629  | 30,377                   | -6,152 decrease                                   |
|                      | 2008 | 24                               | 2971  | 8721  | 13       | 11,728      |                                       |        |         |          | 11,728                               |   | 24,226                   |   |
| Atka Mackerel        | 1999 | 0                                | 0     | 0     | 0        | 0           | 0                                     | 0      | 0       | 0        | 0                                    | 1   | 1                        | 3 increase  |
|                      | 2008 | 0                                | 0     | 0     | 0        | 1           |                                       |        |         |          | 1                                    |   | 4                        |   |
| Arrowtooth Flounder  | 1999 | 8                                | 336   | 929   | 0        | 1,272       | -8                                    | 1,224  | 3,711   | 454      | 1,272                                | 5,381   | 7,192                    | 14,851 increase                                   |
|                      | 2008 | 0                                | 1,560 | 4,639 | 454      | 6,653       |                                       |        |         |          | 6,653                                |   | 22,043                   |   |
| Sum all four species | 1999 | 247                              | 10108 | 30862 | 63       | 41,279      | -61                                   | -4,373 | -5,790  | 411      | 41,279                               | -9,813  | 66,445                   | -3,859 decrease                                   |
|                      | 2008 | 186                              | 5735  | 25071 | 474      | 31,466      |                                       |        |         |          | 31,466                               |   | 62,586                   |   |

Table IV-1999-2008-Area 10. Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken by specific gear by zones within Area 10. A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 10.



Proportion

| Area 10             |      | Per Cent of Total Catch in CH areas |      |       |          | Change from 1999 to 2008 as % |          |          | AMT catch in CH | % change in amount of fish removed from CH | Total Catch Area 10 | as % change in amt caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-------|----------|-------------------------------|----------|----------|-----------------|--|---------------------|------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-20 | Foraging | Total CH                      | 3-10     | 10-20    | Total CH        |  |                     |                                    |                  |
| Pollock trawl       | 1999 | 0                                   | 8.9  | 28.9  |          | 37.8                          | -100.00% | 107.80%  | 58.90%          | 2,044                                      | -65.80%             | 5,404                              | -78.50% decrease |
|                     | 2008 | 0                                   | 0    | 60.1  |          | 60.1                          |          |          |                 | 700  |                     | 1,164                              |                  |
| P. Cod Trawl        | 1999 | 0                                   | 51.1 | 21.2  |          | 72.3                          | -100.00% | -100.00% | 100.00%         | 434  | -100.00%            | 600                                | -99.80% decrease |
|                     | 2008 | 0                                   | 0    | 0     |          | 0                             |          |          |                 | 0  |                     | 1                                  |                  |
| P. Cod Pot          | 1999 | 0                                   | 12.8 | 66    |          | 78.8                          | 173.40%  | -25.00%  | 26.90%          | 1,127                                      | 41.90%              | 1,431                              | 11.80% increase  |
|                     | 2008 | 15.5                                | 35   | 49.5  |          | 100                           |          |          |                 | 1,600                                      |                     | 1,600                              |                  |
| P. Cod Longline     | 1999 | 0                                   | 0    | 68.6  |          | 68.6                          | 0.00%    | -29.20%  | -25.40%         | 252  | 3.00%               | 368                                | 38.00% increase  |
|                     | 2008 | 0                                   | 2.6  | 48.6  |          | 51.2                          |          |          |                 | 260  |                     | 508                                |                  |
| Atka Mackerel Trawl | 1999 | 0                                   | 0    | 0     |          | 0                             | 0        | 0        | 0               | 0  | 0.00%               | 0                                  | 0.00%            |
|                     | 2008 | 0                                   | 0    | 0     |          | 0                             |          |          |                 | 0  |                     | 0                                  |                  |

Amounts (mt)

| Area 10             |      | AMOUNT (mt) of Catch in CH areas |      |       |          | AMOUNT (mt) of change from 99 to 2008 |      |       |          | AMT (mt) catch in CH Area 10 | AMT change in amount of fish removed from CH | Total Catch Area 10 | as AMT (mt) change in total caught from '99 |
|---------------------|------|----------------------------------|------|-------|----------|---------------------------------------|------|-------|----------|------------------------------|--|---------------------|---|
| Gear                | Year | 0-3                              | 3-10 | 10-20 | Foraging | 0-3                                   | 3-10 | 10-20 | Foraging |                              |  |                     |   |
| Pollock trawl       | 1999 | 0                                | 481  | 1563  |          | 2,044                                 | 0    | -481  | -864     | 2,044                        | -1,344                                       | 5,404               | -4,240 decrease                             |
|                     | 2008 | 0                                | 0    | 700   |          | 700                                   |      |       |          | 700                          |  | 1,164               |   |
| P. Cod Trawl        | 1999 | 0                                | 306  | 127   |          | 434                                   | 0    | -306  | -127     | 434                          | -434   | 600                 | -598 decrease                               |
|                     | 2008 | 0                                | 0    | 0     |          | 0                                     |      |       |          | 0                            |  | 1                   |   |
| P. Cod Pot          | 1999 | 0                                | 183  | 944   |          | 1,127                                 | 248  | 377   | -153     | 1,127                        | 472  | 1,431               | 169 increase                                |
|                     | 2008 | 248                              | 561  | 791   |          | 1,600                                 |      |       |          | 1,600                        |  | 1,600               |   |
| P. Cod Longline     | 1999 | 0                                | 0    | 252   |          | 252                                   | 0    | 13    | -6       | 252                          | 7  | 368                 | 140 increase                                |
|                     | 2008 | 0                                | 13   | 247   |          | 260                                   |      |       |          | 260                          |  | 508                 |   |
| Atka Mackerel Trawl | 1999 | 0                                | 0    | 0     |          | 0                                     | 0    | 0     | 0        | 0                            | 0  | 0                   | 0   |
|                     | 2008 | 0                                | 0    | 0     |          | 0                                     |      |       |          | 0                            |  | 0                   |   |

Table IV-1999-2008-Area 10 (Continued). Comparison of the change from 1999 and 2008 as a percent of the portion of catch in critical habitat taken for all gear types by zones within Area 10 . A negative indicates a reduction; positive numbers indicate an increase in catch. The column marked "Total CH" refers to the total catch in critical habitat. There is no designated "foraging CH" in Area 10.

#### Total Catch All Gear

Proportion

| Area 10             |      | Per Cent of Total Catch in CH areas |      |           |          | Change from 1999 to 2008 as % |          |         | AMT<br>catch in<br>CH | % change<br>in amount<br>of fish<br>removed<br>from CH | Total Catch<br>Area 10 | as % change in amt<br>caught from '99 |                  |
|---------------------|------|-------------------------------------|------|-----------|----------|-------------------------------|----------|---------|-----------------------|--|------------------------|---------------------------------------|------------------|
| Gear                | Year | 0-3                                 | 3-10 | 10-<br>20 | Foraging | Total<br>CH                   | 3-10     | 10-20   | Total<br>CH           |  |                        |                                       |                  |
| Pollock             | 1999 | 0                                   | 8.9  | 28.9      | 0        | 37.8                          | -99.80%  | 108.00% | 59.20%                | 2,047  | -65.70%                | 5,418                                 | -78.50% decrease |
|                     | 2008 | 0                                   | 0    | 60.1      | 0        | 60.1                          |          |         |                       | 701  |                        | 1,166                                 |                  |
| Pacific Cod         | 1999 | 0                                   | 20.4 | 55.2      | 0        | 75.6                          | 33.30%   | -10.80% | 16.60%                | 1,813  | 2.50%                  | 2,399                                 | -12.10% decrease |
|                     | 2008 | 11.7                                | 27.2 | 49.2      | 0        | 88.2                          |          |         |                       | 1,860  |                        | 2,109                                 |                  |
| Atka Mackerel       | 1999 | 0                                   | 0    | 0         | 0        | 0                             | 0.00%    | 0.00%   | 0.00%                 | 0  | 0.00%                  | 0                                     | 0.00%            |
|                     | 2008 | 0                                   | 0    | 0         | 0        | 0                             |          |         |                       | 0  |                        | 0                                     |                  |
| Arrowtooth Flounder | 1999 | 0                                   | 2.5  | 26        | 0        | 28.5                          | -100.00% | -33.60% | -39.30%               | 214  | -89.50%                | 752                                   | -82.70% decrease |
|                     | 2008 | 0                                   | 0    | 17.3      | 0        | 17.3                          |          |         |                       | 22   |                        | 130                                   |                  |
| % all four species  | 1999 | 0                                   | 11.5 | 36        | 0        | 47.5                          | 46.00%   | 43.70%  | 59.60%                | 4,074  | -36.60%                | 8,568                                 | -60.30% decrease |
|                     | 2008 | 7.3                                 | 16.9 | 51.7      | 0        | 75.9                          |          |         |                       | 2,583  |                        | 3,405                                 |                  |

Amounts (mt)

| Area 10              |      | AMOUNT (mt) of Catch in CH areas |      |           |          | AMOUNT (mt) of change from 99 to 2008 |     |      |        | AMT (mt)<br>catch in CH<br>Area 10 | AMT change<br>in amount of<br>fish removed<br>from CH | Total<br>Catch<br>Area 10 | as AMT (mt)<br>change in total<br>caught from '99 |                 |
|----------------------|------|----------------------------------|------|-----------|----------|---------------------------------------|-----|------|--------|------------------------------------|---|---------------------------|---|-----------------|
| Gear                 | Year | 0-3                              | 3-10 | 10-<br>20 | Foraging | Total<br>CH                           | 0-3 | 3-10 | 10-20  | Foraging                           |   |                           |   |                 |
| Pollock              | 1999 | 0                                | 481  | 1566      |          | 2,047                                 | 0   | -481 | -865   | 0                                  | 2,047   | -1,346                    | 5,418   | -4,251 decrease |
|                      | 2008 | 0                                | 0    | 701       |          | 701                                   |     |      |        |                                    | 701   |                           | 1,166   |                 |
| Pacific Cod          | 1999 | 0                                | 490  | 1324      |          | 1,813                                 | 248 | 84   | -286   | 0                                  | 1,813   | 46                        | 2,399   | -290 decrease   |
|                      | 2008 | 248                              | 574  | 1038      |          | 1,860                                 |     |      |        |                                    | 1,860   |                           | 2,109   |                 |
| Atka Mackerel        | 1999 | 0                                | 0    | 0         |          | 0                                     | 0   | 0    | 0      | 0                                  | 0   | 0                         | 0   | 0               |
|                      | 2008 | 0                                | 0    | 0         |          | 0                                     |     |      |        |                                    | 0   |                           | 0   |                 |
| Arrowtooth Flounder  | 1999 | 0                                | 19   | 195       |          | 214                                   | 0   | -19  | -173   | 0                                  | 214   | -192                      | 752   | -622 decrease   |
|                      | 2008 | 0                                | 0    | 22        |          | 22                                    |     |      |        |                                    | 22  |                           | 130   |                 |
| Sum all four species | 1999 | 0                                | 989  | 3085      | 0        | 4,074                                 | 248 | -415 | -1,324 | 0                                  | 4,074   | -1,491                    | 8,568   | -5,164 decrease |
|                      | 2008 | 248                              | 574  | 1762      | 0        | 2,583                                 |     |      |        |                                    | 2,583   |                           | 3,405   |                 |

## **APPENDIX V**

### **DIFFERENCES IN EXPANDED OBSERVER AND VOE- CATCH-IN-AREAS DATABASE RELATIVE TO NMFS CATCH ACCOUNTING DATABASE**

## **Appendix V – Differences in Expanded Observer and VOE- Catch-in-Areas Database Relative to NMFS Catch Accounting Database**

This appendix shows the difference between catch estimates generated using the Expanded Observer Data (EOD) method and the VMS-Observer Enabled Catch-In-Areas Database (VOE-CIA) relative to NMFS' official accounting of federal groundfish catch--- the Catch Accounting System (CAS). The EOD and VOE-CIA datasets were developed to allow finer scale spatial interpretation of catch in the groundfish fisheries off Alaska. The methods used to derive the EOD are provided in Chapter 4 of the November 2010 Biological Opinion. VOE-CIA methods are described in Appendix II. As described in the Biological Opinion, both methods for spatially apportioning catch contain estimation error. This appendix shows the differences in estimates generated using the two methods relative to CAS data by year and area, as the amount of error in the estimates varies by year, area, method, and species. The data are provided here to characterize the amount of error about some of the estimates in catch (for example catch in Steller sea lion critical habitat in one year versus another) described in the Biological Opinion.

The EOD were used to describe catch inside and outside of Steller sea lion critical habitat in the Biological Opinion. As discussed in Chapter 4, the EOD comprise the best data available for examining the fine scale spatial distribution of catch over the period of interest in the Biological Opinion and are available back from 1990 to the present. Therefore, the EOD are valuable for comparing catch distribution before and after implementation of Steller sea lion conservation measures. Catch patterns by large geographic regions (BS, AI, and GOA) based on the EOD are presented in Appendix III. Appendix IV contains the EOD estimates for catch over smaller geographic regions (the Rookery Cluster Areas described in Chapter 3 of the Biological Opinion).

The VOE-CIA data are available only back through 2003 and thus do not lend themselves to examining differences in fishing patterns pre- and post-Steller sea lion protection measures. However, they are likely more precise than the EOD; especially in areas where more vessels are required to carry VMS than are required to carry onboard observers. Catch patterns generated using the VOE-CIA data are shown in Appendix II. VOE-CIA data were used to evaluate the efficacy of various RPAs in displacing catch that occurred in recent years (2004-2009) from the areas that would be closed under the RPAs.

Lastly, data directly from the CAS were used to describe fishing patterns by NMFS Fishery Management Area in the Biological Opinion (e.g. harvest rates calculated by dividing catch over the estimated biomass). The CAS data were also used to determine harvest level limits for the RPA (e.g. the fraction of the ABC that historic harvest comprised to set future harvest limits). The CAS data were the best available for that purpose, as they are subject to fewer sources of estimation error than the EOD or VOE-CIA data. Thus, they allowed NMFS to more precisely estimate the levels of harvest likely to be taken in the respective Fishery Management Areas and were used to determine the Atka mackerel harvest limit in Area 542 (47% of ABC) and the percent ABC of Pacific cod harvest in Areas 542 and 541 that would exceed recent harvest levels and require NMFS to reinitiate ESA section 7 consultation.

### EOD Comparison PACIFIC COD

| Year | Bering Sea and Aleutian Islands |                 |                 |            |                      |
|------|---------------------------------|-----------------|-----------------|------------|----------------------|
|      | RCA 1 (543)                     | RCA 2 & 3 (542) | RCA 4 & 5 (541) | RCA 6 (BS) | RCA 1-6 (BSAI Total) |
| 1995 | -5.6%                           | 4.2%            | -1.2%           | 0.7%       | 0.6%                 |
| 1996 | 4.3%                            | -33.1%          | -3.5%           | -0.7%      | -1.5%                |
| 1997 | 23.0%                           | 6.7%            | -3.1%           | 0.3%       | 0.3%                 |
| 1998 | 20.7%                           | -3.2%           | -1.1%           | 1.6%       | 1.4%                 |
| 1999 | -3.9%                           | 7.8%            | -6.3%           | 2.8%       | 1.8%                 |
| 2000 | -14.3%                          | 4.3%            | -2.0%           | 16.7%      | 12.5%                |
| 2001 | 5.2%                            | -8.0%           | -1.5%           | -0.5%      | -0.4%                |
| 2002 | 39.5%                           | 32.1%           | 16.9%           | -4.7%      | -0.5%                |
| 2003 | 13.3%                           | -10.7%          | 2.5%            | 9.2%       | 7.9%                 |
| 2004 | -11.7%                          | -3.4%           | 3.5%            | 0.5%       | 0.4%                 |
| 2005 | -1.0%                           | 9.3%            | -4.0%           | 2.3%       | 1.9%                 |
| 2006 | 4.2%                            | -43.9%          | 9.7%            | 4.3%       | 3.5%                 |
| 2007 | 8.8%                            | -17.2%          | -2.3%           | 1.4%       | 0.6%                 |
| 2008 | 24.8%                           | -21.9%          | 3.0%            | 0.8%       | 1.4%                 |

### EOD Comparison PACIFIC COD

| Year | Gulf of Alaska |             |             |              |                      |
|------|----------------|-------------|-------------|--------------|----------------------|
|      | RCA 7 (610)    | RCA 8 (620) | RCA 9 (630) | RCA 10 (640) | RCA 7-10 (GOA Total) |
| 1995 | -11.4%         | 0.4%        | -16.9%      | 654.8%       | -3.7%                |
| 1996 | -8.0%          | 0.0%        | -30.4%      | 1066.7%      | -2.5%                |
| 1997 | -9.3%          | 3.2%        | -10.4%      | 618.0%       | -2.6%                |
| 1998 | -5.9%          | 0.0%        | -2.5%       | 141.4%       | -1.9%                |
| 1999 | -14.1%         | -0.1%       | -6.7%       | 308.3%       | -5.4%                |
| 2000 | -18.5%         | -4.2%       | -1.4%       | 43.6%        | -8.4%                |
| 2001 | -8.1%          | 0.0%        | -4.4%       | 2317.7%      | -2.8%                |
| 2002 | -3.8%          | 1.5%        | -16.9%      | 5122.2%      | -1.3%                |
| 2003 | -7.0%          | 0.0%        | -3.5%       | 1257.4%      | -2.8%                |
| 2004 | -7.1%          | -1.4%       | -0.3%       | 596.9%       | -2.8%                |
| 2005 | -0.1%          | -67.5%      | -0.2%       | 183.4%       | -7.1%                |
| 2006 | -21.2%         | -45.9%      | -2.0%       | 768.8%       | -16.0%               |
| 2007 | 13.7%          | -58.2%      | -1.3%       | 299.8%       | -5.8%                |
| 2008 | -11.1%         | 0.4%        | -6.9%       | 604.4%       | -3.8%                |

CIA Comparison PACIFIC COD

| Year | Bering Sea and Aleutian Islands |                 |                 |            |                      |
|------|---------------------------------|-----------------|-----------------|------------|----------------------|
|      | RCA 1 (543)                     | RCA 2 & 3 (542) | RCA 4 & 5 (541) | RCA 6 (BS) | RCA 1-6 (BSAI Total) |
| 1995 | NA                              | NA              | NA              | NA         | NA                   |
| 1996 | NA                              | NA              | NA              | NA         | NA                   |
| 1997 | NA                              | NA              | NA              | NA         | NA                   |
| 1998 | NA                              | NA              | NA              | NA         | NA                   |
| 1999 | NA                              | NA              | NA              | NA         | NA                   |
| 2000 | NA                              | NA              | NA              | NA         | NA                   |
| 2001 | NA                              | NA              | NA              | NA         | NA                   |
| 2002 | NA                              | NA              | NA              | NA         | NA                   |
| 2003 | 0.2%                            | -0.9%           | 0.3%            | 0.1%       | 0.1%                 |
| 2004 | -0.5%                           | 2.3%            | -0.8%           | 0.2%       | 0.1%                 |
| 2005 | -2.1%                           | 0.0%            | 0.5%            | 0.2%       | 0.2%                 |
| 2006 | -0.1%                           | -2.0%           | 0.5%            | 0.2%       | 0.2%                 |
| 2007 | -0.3%                           | -0.3%           | 0.1%            | 0.4%       | 0.3%                 |
| 2008 | -0.6%                           | 1.9%            | -0.2%           | 0.3%       | 0.2%                 |

CIA Comparison PACIFIC COD

| Year | Gulf of Alaska |             |             |              |                      |
|------|----------------|-------------|-------------|--------------|----------------------|
|      | RCA 7 (610)    | RCA 8 (620) | RCA 9 (630) | RCA 10 (640) | RCA 7-10 (GOA Total) |
| 1995 | NA             | NA          | NA          | NA           | NA                   |
| 1996 | NA             | NA          | NA          | NA           | NA                   |
| 1997 | NA             | NA          | NA          | NA           | NA                   |
| 1998 | NA             | NA          | NA          | NA           | NA                   |
| 1999 | NA             | NA          | NA          | NA           | NA                   |
| 2000 | NA             | NA          | NA          | NA           | NA                   |
| 2001 | NA             | NA          | NA          | NA           | NA                   |
| 2002 | NA             | NA          | NA          | NA           | NA                   |
| 2003 | 0.7%           | 1.5%        | -0.1%       | -85.9%       | 0.3%                 |
| 2004 | 0.0%           | -2.6%       | 1.6%        | -4.5%        | 0.4%                 |
| 2005 | -0.3%          | -5.7%       | 1.7%        | -45.4%       | 0.1%                 |
| 2006 | 0.3%           | -1.7%       | 1.4%        | -22.3%       | 0.4%                 |
| 2007 | -1.1%          | 0.9%        | 1.1%        | -33.7%       | 0.2%                 |
| 2008 | -1.9%          | 1.6%        | 1.0%        | 14.6%        | 0.2%                 |

### EOD Comparison ATKA MACKEREL

| Year | Bering Sea and Aleutian Islands |                 |                 |            |                      |
|------|---------------------------------|-----------------|-----------------|------------|----------------------|
|      | RCA 1 (543)                     | RCA 2 & 3 (542) | RCA 4 & 5 (541) | RCA 6 (BS) | RCA 1-6 (BSAI Total) |
| 1995 | 21.5%                           | -5.6%           | -6.0%           | 28.9%      | 0.1%                 |
| 1996 | -0.9%                           | -2.5%           | 4.4%            | 149.4%     | 1.1%                 |
| 1997 | 2.9%                            | -9.9%           | 6.9%            | 177.4%     | 0.5%                 |
| 1998 | 1.6%                            | -32.4%          | 12.9%           | 29.8%      | -8.0%                |
| 1999 | 0.1%                            | -35.9%          | 0.6%            | 0.4%       | -14.1%               |
| 2000 | 8.6%                            | -19.6%          | -2.1%           | -9.7%      | -8.0%                |
| 2001 | -3.9%                           | -16.3%          | -12.7%          | -18.4%     | -11.7%               |
| 2002 | -1.8%                           | 0.6%            | -4.4%           | -44.9%     | -1.4%                |
| 2003 | 6.7%                            | 7.2%            | 16.3%           | 7.4%       | 8.0%                 |
| 2004 | -6.0%                           | 0.4%            | 4.4%            | -8.7%      | -2.5%                |
| 2005 | -3.1%                           | 2.3%            | -5.7%           | -0.5%      | 0.0%                 |
| 2006 | 2.2%                            | -1.4%           | 2.2%            | -1.1%      | -0.3%                |
| 2007 | 3.3%                            | -3.3%           | 2.0%            | 0.1%       | -0.3%                |
| 2008 | 0.1%                            | 0.0%            | -0.1%           | 12.3%      | 0.1%                 |

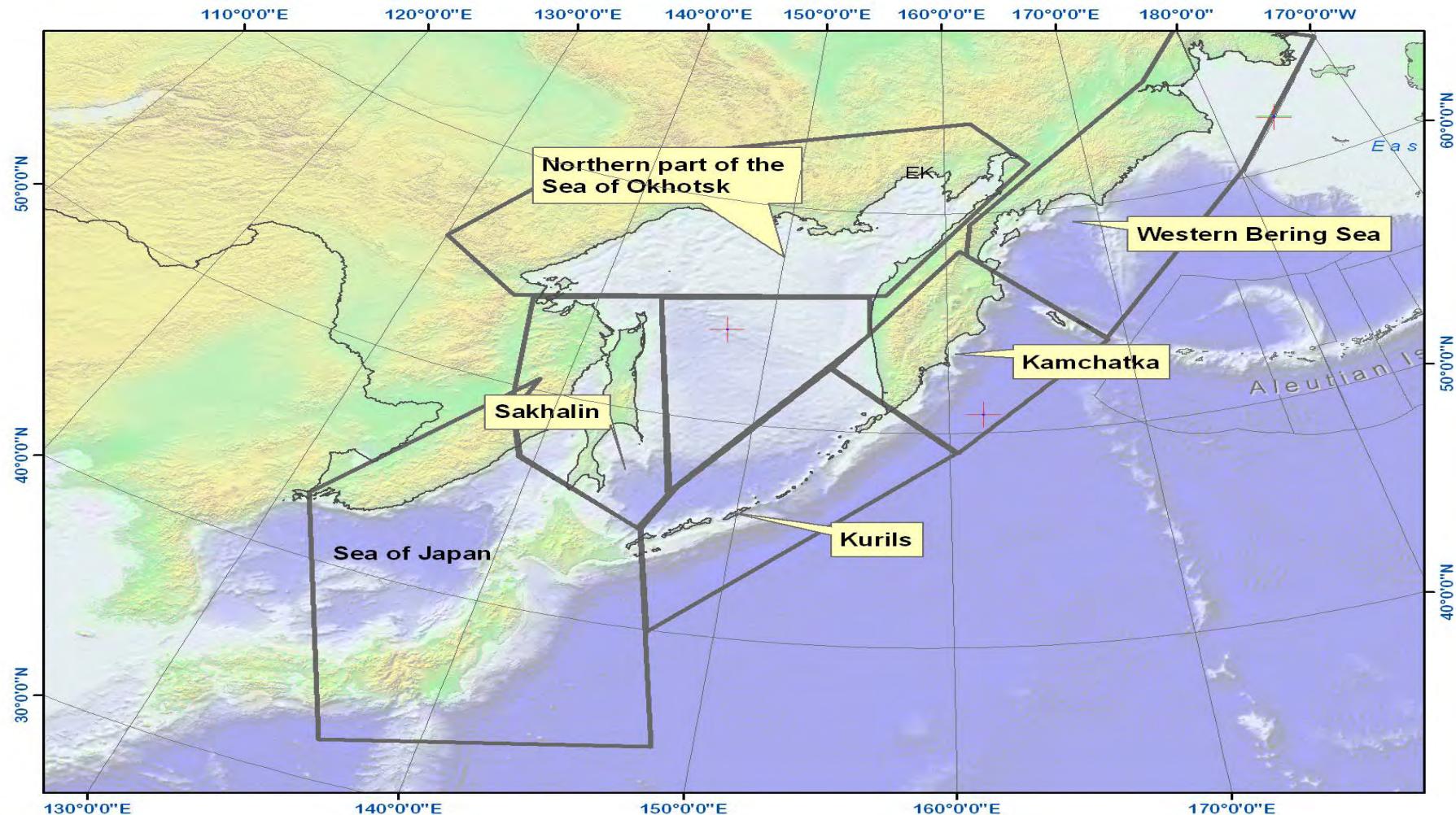
### CIA Comparison ATKA MACKEREL

| Year | Bering Sea and Aleutian Islands |                 |                 |            |                      |
|------|---------------------------------|-----------------|-----------------|------------|----------------------|
|      | RCA 1 (543)                     | RCA 2 & 3 (542) | RCA 4 & 5 (541) | RCA 6 (BS) | RCA 1-6 (BSAI Total) |
| 1995 | NA                              | NA              | NA              | NA         | NA                   |
| 1996 | NA                              | NA              | NA              | NA         | NA                   |
| 1997 | NA                              | NA              | NA              | NA         | NA                   |
| 1998 | NA                              | NA              | NA              | NA         | NA                   |
| 1999 | NA                              | NA              | NA              | NA         | NA                   |
| 2000 | NA                              | NA              | NA              | NA         | NA                   |
| 2001 | NA                              | NA              | NA              | NA         | NA                   |
| 2002 | NA                              | NA              | NA              | NA         | NA                   |
| 2003 | 0.0%                            | 0.2%            | -0.8%           | -2.2%      | -0.2%                |
| 2004 | 0.0%                            | 0.0%            | 0.0%            | -1.0%      | -0.1%                |
| 2005 | -1.2%                           | 0.7%            | 0.0%            | -1.3%      | -0.1%                |
| 2006 | -0.1%                           | 0.0%            | 0.0%            | 0.2%       | 0.0%                 |
| 2007 | 0.1%                            | 0.0%            | 0.0%            | 0.2%       | 0.0%                 |
| 2008 | -1.4%                           | 1.0%            | 0.0%            | 0.1%       | 0.0%                 |

**APPENDIX VI**

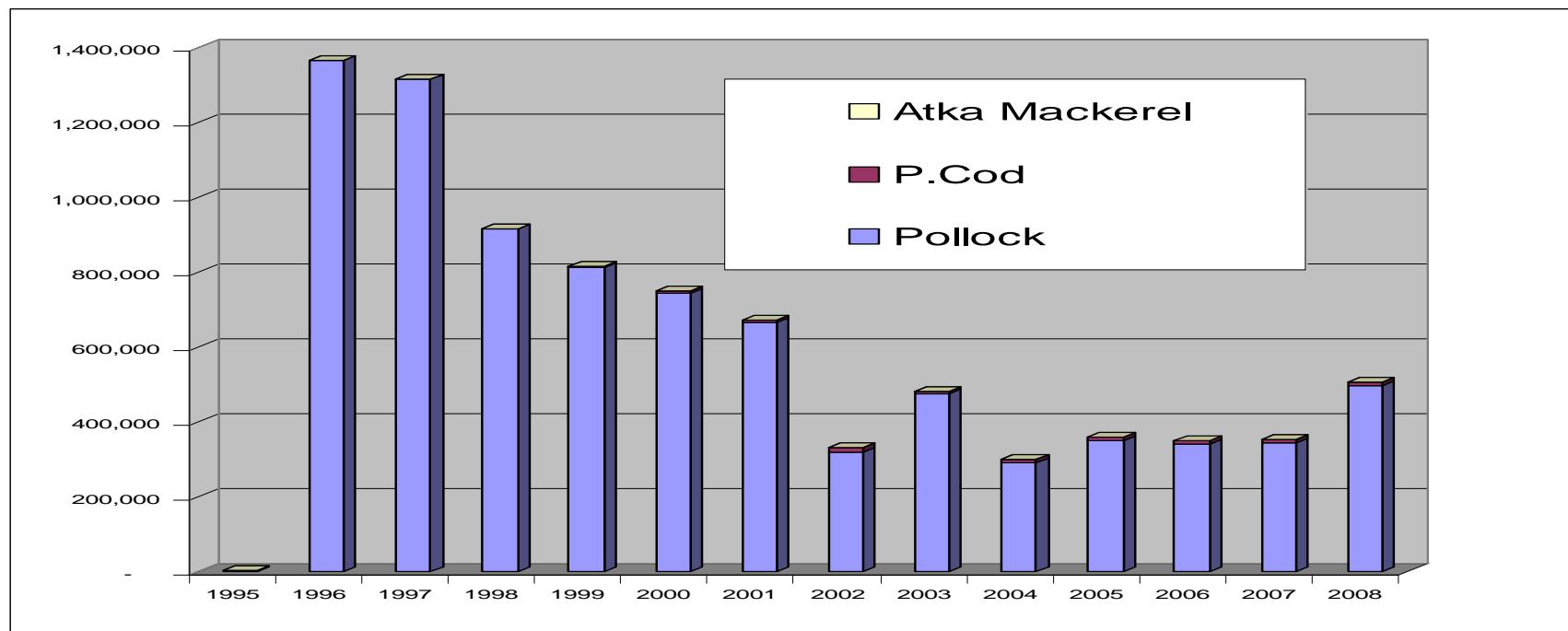
**RUSSIAN FISHERIES CATCH DATA**

## Appendix VI: Russian Catch Data for Pollock, Atka Mackerel, and Pacific Cod by Area



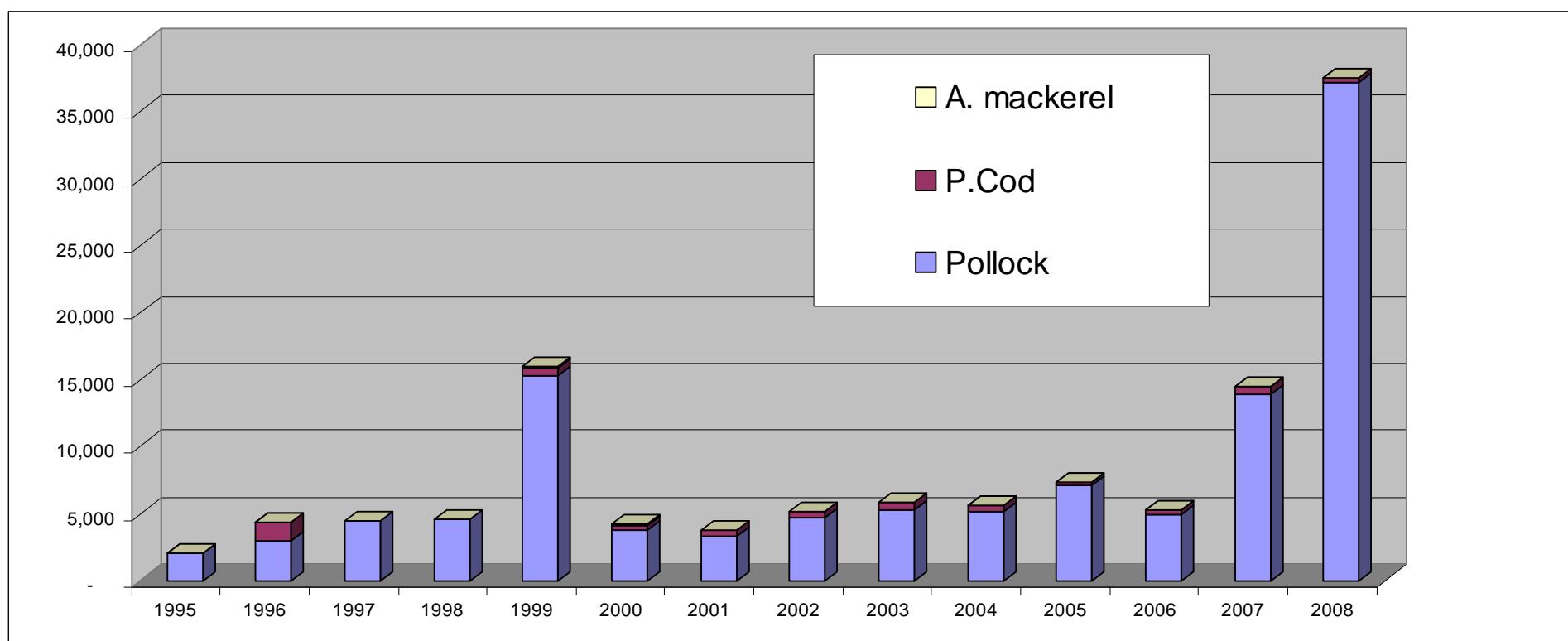
## Russia: Northern Part of Sea of Okhotsk

|                  | 1995  | 1996      | 1997      | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    |
|------------------|-------|-----------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Pollock          | -     | 1,363,870 | 1,314,503 | 915,223 | 812,874 | 743,541 | 664,346 | 319,114 | 474,545 | 292,338 | 350,738 | 341,734 | 344,594 | 498,406 |
| P.Cod            | 4,592 |           | 1,489     | 677     | 1,996   | 7,273   | 8,500   | 12,225  | 6,544   | 8,087   | 10,366  | 9,997   | 9,453   | 9,355   |
| Atka<br>Mackerel | -     | -         | 10        | -       | 3       | 26      | 51      | 3       | 0       | 2       | 52      | 30      | 0       | -       |



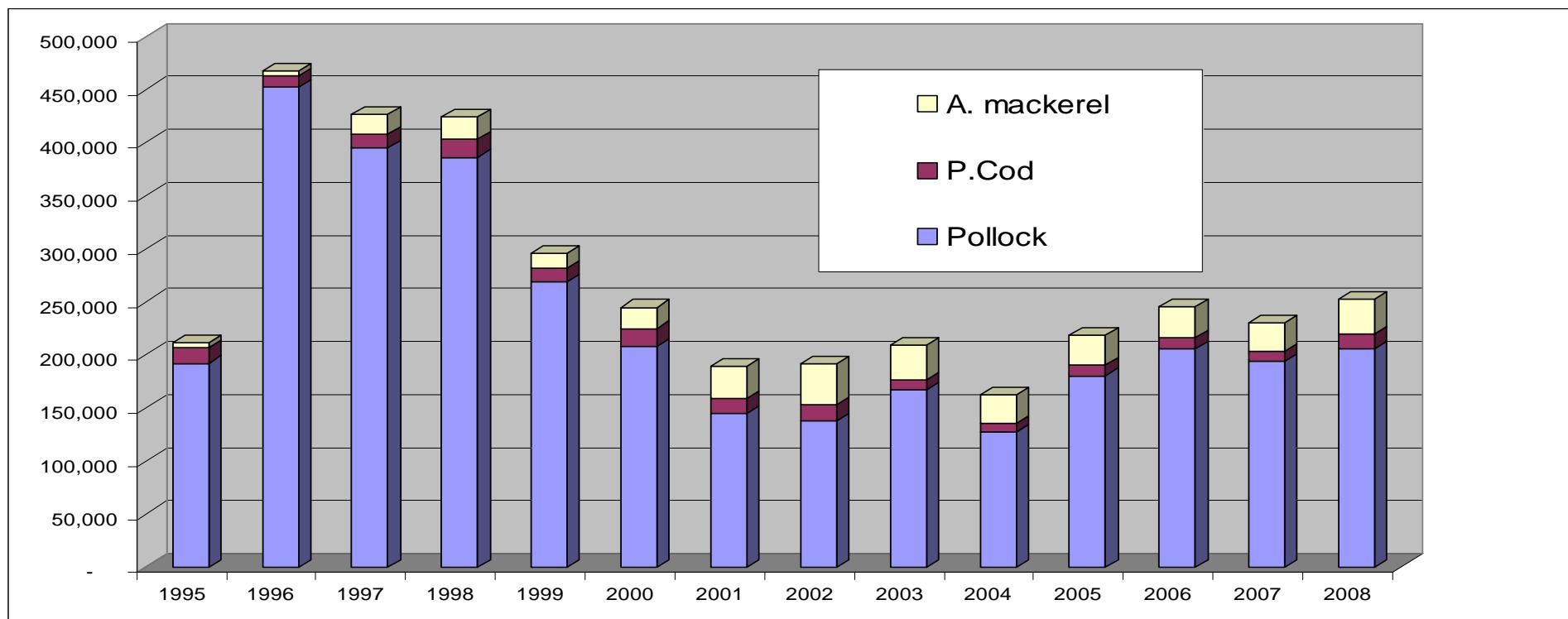
## Russia: Sakhalin

|                | 1995  | 1996  | 1997  | 1998  | 1999   | 2000  | 2001  | 2002  | 2003  | 2004  | 2005  | 2006  | 2007   | 2008   |
|----------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Pollock        | 1,966 | 2,953 | 4,452 | 4,503 | 15,280 | 3,725 | 3,270 | 4,726 | 5,286 | 5,110 | 7,059 | 4,869 | 13,943 | 37,178 |
| P.Cod          |       | 1,318 |       |       | 617    | 318   | 472   | 391   | 573   | 474   | 232   | 360   | 487    | 299    |
| A.<br>mackerel | -     | -     | 8     | 2     | 72     | 197   | 53    | 48    | 15    | -     | -     | -     | -      | -      |



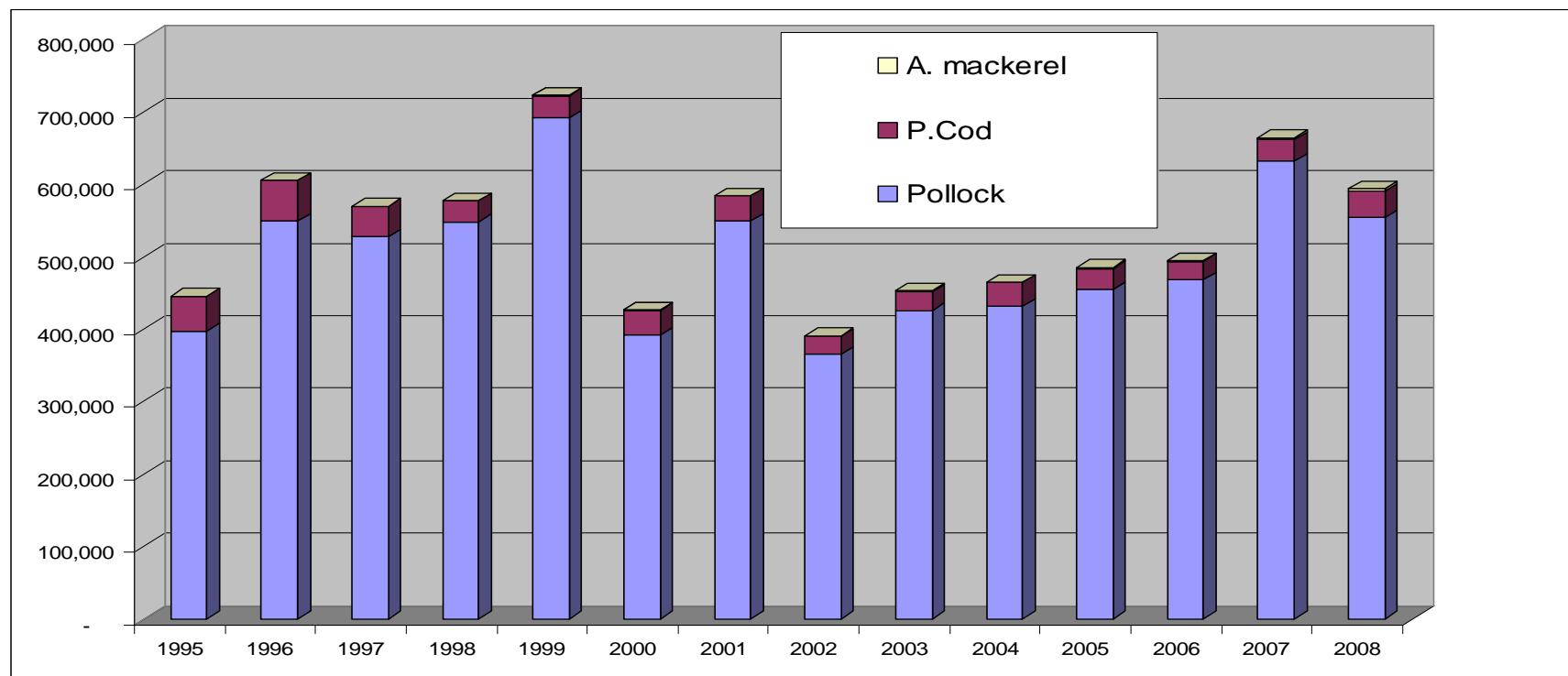
## Russia: Kuril Islands

|             | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Pollock     | 192,131 | 452,767 | 395,142 | 386,372 | 268,980 | 207,760 | 145,100 | 137,631 | 167,322 | 127,297 | 180,296 | 205,547 | 193,568 | 206,012 |
| P.Cod       | 14,374  | 10,360  | 13,060  | 16,606  | 12,216  | 17,193  | 13,695  | 15,225  | 8,807   | 7,964   | 10,408  | 10,687  | 9,310   | 13,750  |
| A. mackerel | 5,216   | 4,334   | 18,547  | 20,858  | 14,763  | 19,888  | 30,812  | 38,290  | 33,014  | 27,040  | 27,680  | 28,747  | 27,175  | 32,700  |



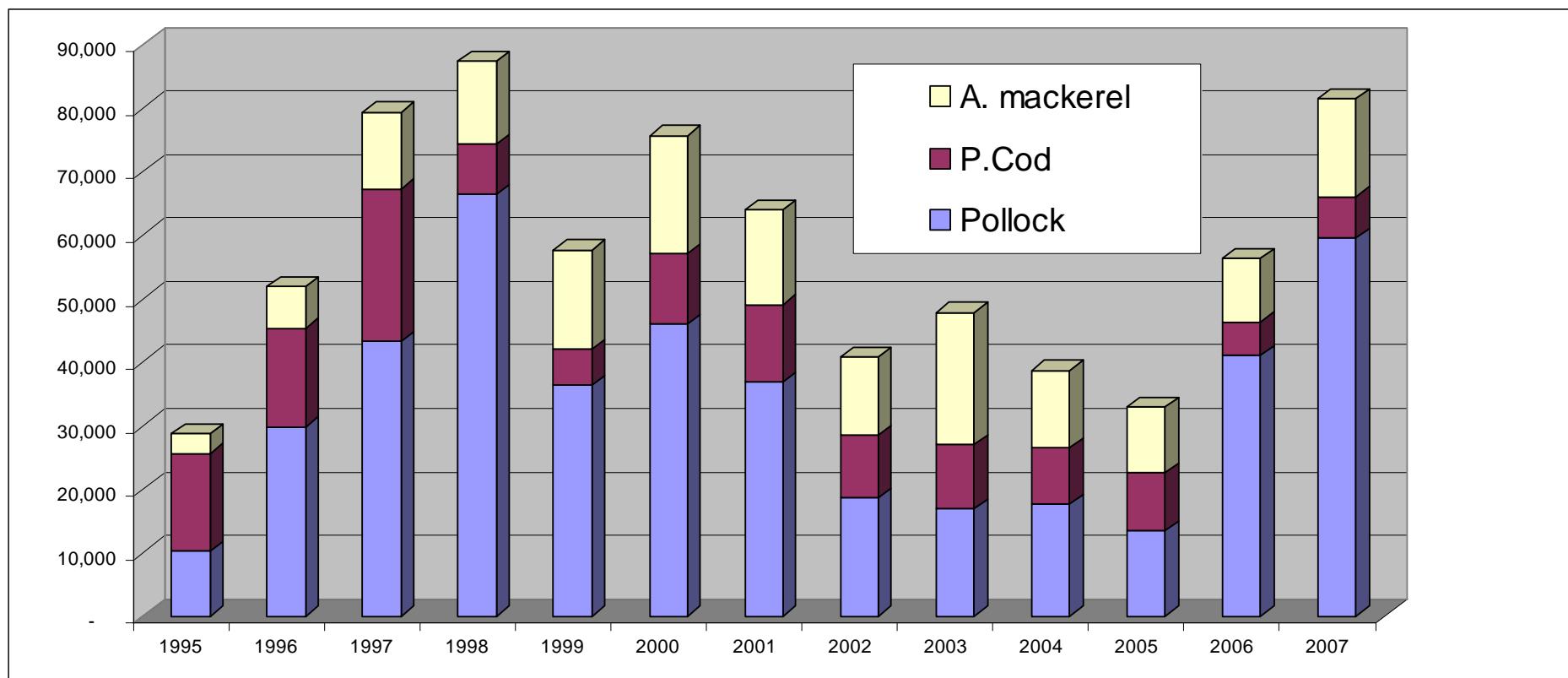
## Russia: Western Bering Sea

|                | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002    | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Pollock        | 397,521 | 549,446 | 527,358 | 548,138 | 691,656 | 392,140 | 548,896 | 365,436 | 425,837 | 431,587 | 455,059 | 467,396 | 631,286 | 554,233 |
| P.Cod          | 47,797  | 55,726  | 42,078  | 28,805  | 30,421  | 33,269  | 34,507  | 24,445  | 25,783  | 33,142  | 28,518  | 26,258  | 30,710  | 36,047  |
| A.<br>mackerel | 164     | 303     | 445     | 545     | 444     | 953     | 496     | 774     | 1,229   | 297     | 1,371   | 1,038   | 1,759   | 2,991   |



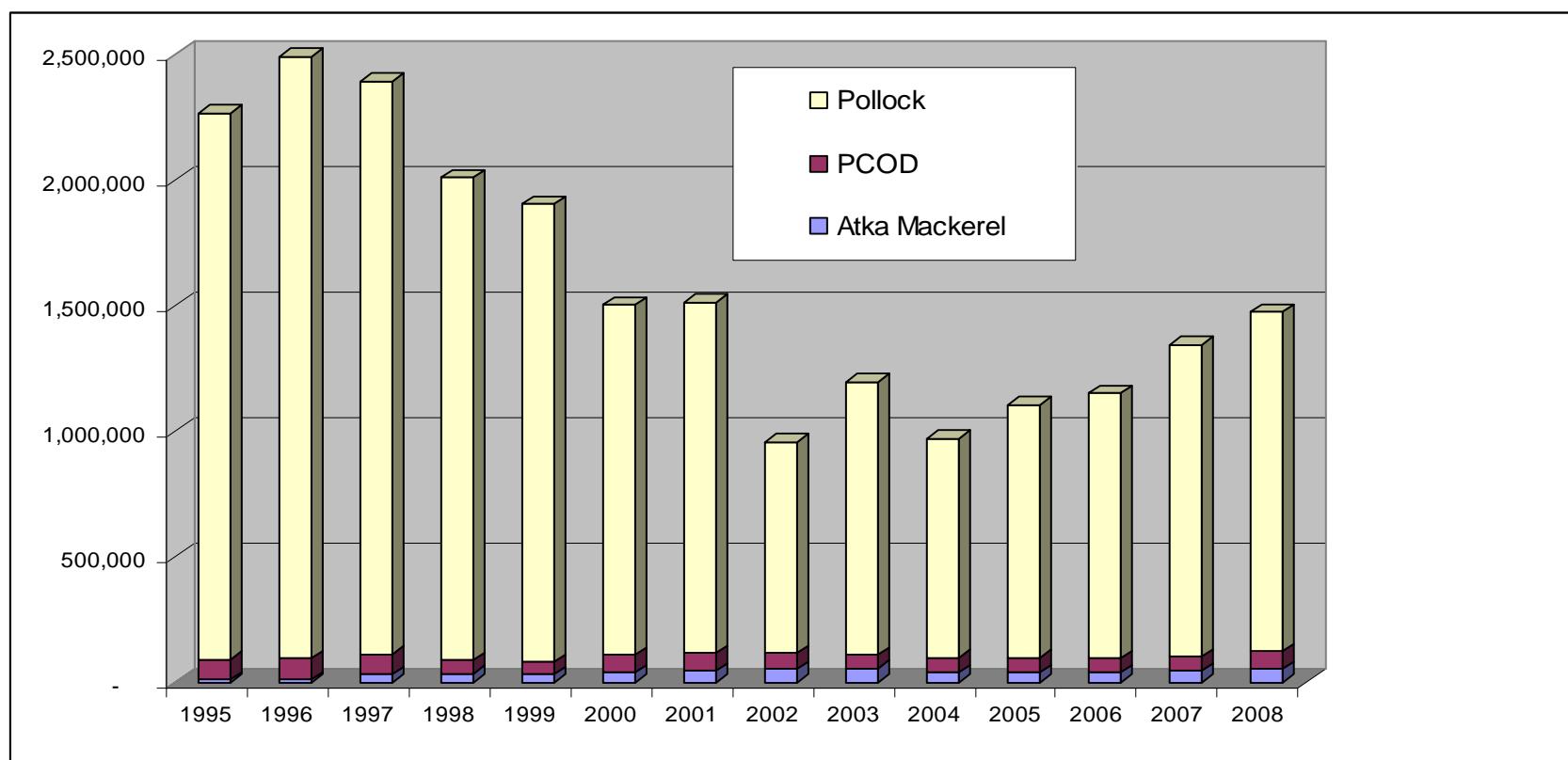
## Russia: Eastern Kamchatka

|             | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004   | 2005   | 2006   | 2007   | 2008   |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pollock     | 10,184 | 29,868 | 43,236 | 66,367 | 36,310 | 45,930 | 36,951 | 18,562 | 16,846 | 17,676 | 13,397 | 41,058 | 59,463 | 58,901 |
| P.Cod       | 15,474 | 15,533 | 24,034 | 7,999  | 5,816  | 11,230 | 12,086 | 9,896  | 10,120 | 8,897  | 9,258  | 5,331  | 6,604  | 9,983  |
| A. mackerel | 3,111  | 6,536  | 12,144 | 13,037 | 15,552 | 18,490 | 14,917 | 12,278 | 20,866 | 12,172 | 10,264 | 9,933  | 15,420 | 16,161 |



## Russia: Total from All Areas

|                | 1995    | 1996    | 1997    | 1998    | 1999    | 2000    | 2001    | 2002     | 2003     | 2004     | 2005    | 2006     | 2007     | 2008     |
|----------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|---------|----------|----------|----------|
| <b>A. Mack</b> | 8,491   | 11,173  | 31,154  | 34,442  | 30,834  | 39,554  | 46,329  | 51,394   | 55,124   | 39,510   | 39,367  | 39,747   | 44,354   | 51,853   |
| <b>P.Cod</b>   | 82237   | 82937   | 80661   | 54087   | 51066   | 69283   | 69260.2 | 62181.7  | 51827.21 | 58562.83 | 58783.4 | 52632.94 | 56563.46 | 69434.48 |
| <b>Pollock</b> | 2179121 | 2398904 | 2284691 | 1920603 | 1825100 | 1393096 | 1398565 | 845468.2 | 1089836  | 874007.3 | 1006549 | 1060604  | 1242854  | 1354730  |
|                | 2271844 | 2495010 | 2398503 | 2011130 | 1908999 | 1503933 | 1516155 | 961045.6 | 1198791  | 974084.5 | 1106705 | 1154990  | 1345779  | 1478026  |



## APPENDIX VII

AUGUST 2, 2010 DRAFT BIOP RPA AND THE COUNCIL'S AUGUST 2010  
RPA

On August 2, 2010 NMFS released a draft Biological Opinion (Biop) on the effects of the groundfish fisheries off Alaska on species listed under the Endangered Species Act (ESA) including Steller sea lions (SSL) and their designated critical habitat. The draft Biop concluded that the groundfish fisheries, as currently authorized, were likely to jeopardize the continued existence of the western distinct population segment (DPS) of SSLs and adversely modify its designated critical habitat. The draft Biop contained an RPA designed to remove the likelihood that the fisheries would jeopardize the western DPS or adversely modify their critical habitat. NMFS accepted public comment on the draft Biop from August 2 through September 3, 2010. The North Pacific Fishery Management Council convened a special meeting in mid-August and submitted an alternate RPA to the one in the draft Biop for NMFS's consideration. NMFS analyzed the Council's RPA against the performance standards in Chapter 8 of the August 2, 2010 draft Biop. In aggregate, the Council's RPA did not meet the performance standards in the draft Biop. NMFS revised the draft Biop RPA to allow for some modifications to the RPA while maintaining adherence to the performance standards in the draft Biop. This Appendix contains the August 2, 2010 draft Biop RPA and the Council's August 20, 2010 proposed RPA.

**RPA for Area 543**

Pacific cod fishery

1. Close the directed fishery and prohibit retention of P. Cod in Area 543.

Atka mackerel fishery

1. Close the directed fishery and prohibit retention of Atka mackerel in Area 543.

**RPA for Area 542**

Groundfish fishery

1. Close waters from 0-3 nm around Kanaga Island/Ship Rock to directed fishing for groundfish by federally permitted vessels.

Pacific cod fishery

1. Close the 0-10 nm zone of critical habitat to directed P. cod fishing by federally permitted vessels using fixed gear year round. Close the 10-20 nm zone of critical habitat to directed fishing for P. cod by federally permitted vessels using fixed gear January 1 through June 10.
2. Close the 0-20 nm zone of critical habitat year-round to directed fishing for P. Cod by federally permitted vessels using trawl gear.
3. Prohibit P. cod fishing November 1 through December 31 in Area 542.

Atka mackerel fishery

1. Close the 0-20 nm zone of critical habitat to directed fishing for Atka mackerel by federally permitted vessels year round.
2. Set Atka mackerel TAC for Area 542 to no more than 47% of ABC.
3. Eliminate the HLA platoon system for Atka mackerel harvest.
4. Change the Atka mackerel seasons to January 20 through June 10 for the A season and June 10-November 1 for the B season.

**RPA for Area 541**

Pacific cod fishery

1. Close the 0-10 nm zone of critical habitat to directed fishing for P. cod by federally permitted vessels year-round.
2. Close the 10-20 nm zone of critical habitat to directed fishing for P. cod using fixed gear by federally permitted vessels January 1 through June 10.
3. Close the 10-20 nm zone of critical habitat to directed fishing by for P. cod using trawl gear by federally permitted vessels June 10 through November 1.
4. Prohibit P. cod fishing November 1 through December 31 in Area 541.

Atka mackerel fishery

1. The available data do not indicate a need to further modify fishery management measures to conserve Atka mackerel forage availability within this fishery management area. However, the elimination of the platoon management system provides an opportunity to further disperse the Atka mackerel seasons to January 20 through June 10 for the A season and June 10 through November 1 for the B season.

**August 20, 2010 North Pacific Fishery Management Council motion  
Steller Sea Lion Biological Opinion and EA/RIR**

The Council recommends that NMFS consider the following as a Reasonable and Prudent Alternative (RPA).

**RPA Alternative 4:** SSL protection with sustainable fisheries and communities.

Unless otherwise stated, the existing protection measures in 50 CFR 679 remain in place.

**Atka mackerel**

Remove existing ‘platoon’ system in areas 542 and 543

Area 543:

- No fishing inside critical habitat
- Fishing outside critical habitat east of 174 degrees – 30 minutes East longitude
- TAC not to exceed 65% of ABC
- A season Jan 20 to June 10, B season June 10 to Nov 1
- No more than 50% of TAC harvested in A or B season
- No rollover between A and B seasons

Area 542:

- No fishing inside critical habitat from 178 degrees – 0 minutes East longitude to 180 degrees – 0 minutes longitude.
- TAC not to exceed 65% of ABC
- Catch inside critical habitat (outside Trawl Exclusion Zones) not to exceed 50% of TAC
- A season Jan 20 to June 10, B season June 10 to Nov 1
- No more than 50% of TAC harvested in A or B season
- No rollover between A and B seasons

Area 541:

- Status quo, except A season January 20 to June 10, B season June 10 to November 1

**Pacific cod trawl**

Area 543:

- No cod trawling in critical habitat east of 174 degrees 30 minutes East longitude
- Cod trawling in critical habitat west of 174 degrees 30 minutes from 10 nm and out from February 15 to March 15
- Cod trawl harvest limited to no more than 2.5% of BS/AI ABC

Area 541 and Area 542 east of 178 degrees West Longitude:

- Trawl cod fishery is A Season only (January 20 to June 10)
- Trawl cod fishery inside critical habitat is only east of 178 degrees W to 541 management border
- No inside critical habitat cod fishing west of 178 degrees W to 177 degrees E
- Increase haulout closures to 10 nm for cod trawl between 170 degrees W to 174 W
- Status quo West of 174 W to 178 W

**Pacific cod fixed gear**

No additional restrictions on vessels under 60' using fixed gear

Area 543:

- Prohibit directed fishery for Pacific cod.

#### Areas 542

- Cod fishery is limited to B season only (June 10 to November 1)
- Critical habitat open outside 3 4 nm from rookeries and haulouts

#### Area 541/Bering Sea:

- No new 541 restrictions on fixed gear cod fishing

The Council strongly encourages NMFS to develop a research plan which considers the SSC recommendations to address data and information gaps regarding the decline of Steller sea lions in Area 543 and the slow Steller sea lion recovery in Areas 542 and 541, and to immediately initiate budget and funding discussions within the agency to support the research plan.

The Council notes SSC concerns and recommendations for the analysis including:

- stating as fact some conclusions that still have a great deal of uncertainty about them such as
- past conservation methods having a “positive impact on reducing the impacts of the fishery
- exploitation strategy on Steller sea lions”;
- assumptions underlying the BiOp analysis including biomass projection methodology, biomass
- apportionment, and nutritional stress as the causal factor for low natality ;
- the global scale of the RPA relative to the current information base and conservation goal; and
- questions raised in the editorial comments of the SSC

and therefore recommends an independent review of the BiOp.

The Council recommends the agency include a 2-year sunset provision in their rule making. Further, the Council notes the SSC's concerns and recommendations regarding the EA/RIR, and requests strengthening and expanding the document.