National Marine Fisheries Service
Longline Survey Data Report and
Survey History, 1990-2014

T. L. Rutecki, C. J. Rodgveller, and C. R. Lunsford
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by
T. L. Rutecki, C. J. Rodgveller, and C. R. Lunsford

Auke Bay Laboratories
Alaska Fisheries Science Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
17109 Lena Point Loop Road
Juneau, AK 99801

www.afsc.noaa.gov

U.S. DEPARTMENT OF COMMERCE
Penny. S. Pritzker, Secretary
National Oceanic and Atmospheric Administration
Kathryn D. Sullivan, Under Secretary and Administrator
National Marine Fisheries Service
Eileen Sobeck, Assistant Administrator for Fisheries

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ABSTRACT


Overall sablefish abundance indices (relative population number (RPN) and relative population weight (RPW)) for the Gulf of Alaska decreased from 1990 to 2014. Shortspine thornyhead RPN for the Gulf of Alaska increased from 1990 to 2014 and RPW increased from 1990 to 2014. Rougheye and blackspotted rockfish RPN for the Gulf of Alaska increased from 1992 to 2014 and RPW increased from 1992 to 2014. Gulf of Alaska RPN for shortraker rockfish increased from 1992 to 2011 followed by a decrease during 2012-2014. While shortraker rockfish RPWs fluctuated over the years there was an overall increase in RPWs from 1992 to 2014. Arrowtooth flounder RPN for
the Gulf of Alaska fluctuated between increases and decreases from 1990 to 2010 but decreased during 2011-2014. Arrowtooth flounder RPW decreased overall from 1990 to 2014.
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INTRODUCTION

This report discusses the history of the National Marine Fisheries Service’s (NMFS) longline survey conducted by the Alaska Fisheries Science Center (AFSC) and presents the 1990-2014 survey results which updates an earlier report on the 1991-1996 NMFS longline surveys (Rutecki et al. 1997).

From 1978 through 1994, Japan and the United States cooperatively conducted an annual longline survey of the upper continental slope of the Gulf of Alaska (GOA). The survey supplied information to estimate the abundance of sablefish, *Anoplopoma fimbria*, and other groundfish species (Rutecki et al. 1997). Since 1987, the AFSC has conducted its own annual longline survey designed to continue the time series of data following the end of the U.S.-Japan cooperative surveys. The U.S.-Japan cooperative survey, conducted jointly by NMFS and The Fisheries Agency of Japan, and later by NMFS and a Japanese industry group, covered the GOA, eastern Bering Sea (EBS), and Aleutian Islands (AI), whereas the NMFS survey (initially termed Domestic Longline Survey) conducted solely by NMFS covered only the GOA until 1996. The NMFS survey in 1996 expanded to cover the eastern Aleutian Islands (EAI). Sampling of the EBS began in 1997. The initial purpose of the NMFS longline survey was to determine the relative abundance and length composition of sablefish in the GOA, EBS, and EAI (Fig. 1).

The longline survey now provides stock assessment data for sablefish; roughey rockfish, *Sebastes aleutianus* and blackspotted rockfish, *S. melanostictus*; and Greenland turbot, *Reinhardtius hippoglossoides*. A shallow stratum (150 m to 200 m) has recently been defined and relative population numbers (RPN) and relative population weights
(RPW) are now available for this stratum and for all species caught in the survey, including shortspine thornyhead, *Sebastolobus alascanus*; shortraker rockfish, *Sebastes borealis*; and arrowtooth flounder, *Atheresthes stomias*. Only these species will be discussed in this report.

Relative abundance numbers (RPN) and relative abundance weights (RPW) for those species caught in the GOA gullies, AI, and Bering Sea survey areas will be listed as well for Pacific cod, *Gadus macrocephalus*; Pacific halibut, *Hippoglossus stenolepis*; giant grenadier, *Albatrossia pectoralis*; spiny dogfish, *Squalus acantias*; and Pacific sleeper shark, *Somniosus pacificus*, caught in all survey areas.

Sablefish Fishery History

The exploitation of sablefish stocks in the Pacific Ocean was initiated by American coastal fishermen at the end of the 19th century, and the fishery is one of the North Pacific groundfish fisheries with the longest histories (Forrester et al. 1978). According to Sigler and Lunsford¹, “the American fishery on sablefish developed as a secondary activity of the halibut fishery of the United States and Canada. Initial fishing grounds were off Washington and British Columbia and from there spread to Oregon, California, and Alaska during the 1920's. Since then, and up to 1957, the sablefish fishery was exclusively a small U.S. and Canadian fishery, ranging from off California northward to Kodiak Island in the GOA. Japanese longliners began sablefish operations in the eastern Bering Sea in 1958”. After 1960, there was full exploitation of sablefish in waters off of Alaska, primarily by Japan with a peak catch of 64,500 t in 1972 (Sasaki

Foreign fishing ended in the U.S. Exclusive Economic Zone (EEZ) under the Magnuson-Stevens Act and the U.S. sablefish longline fishery began expanding in 1982 into the GOA and in 1988, the domestic fishery harvested all sablefish taken in Alaska except for minor joint venture catches (Sigler and Lunsford 2001).

Currently groundfish fisheries in federal and state waters of Alaska are managed by various combinations of annual catch quotas, limited access, bycatch measures including catch limits, and area closures triggered by reaching these limits. Since 1995, the federal-waters fishery for sablefish and the Pacific halibut fishery in all waters of Alaska have been managed by individual fishery quotas or IFQs. The Magnuson-Stevens Act defines an IFQ as a “Federal permit under a limited access system to harvest a quantity of fish, expressed by a unit or units representing a percentage of the total allowable catch of a fishery that may be received or held for exclusive use by a person” (Sigler and Lunsford 2001). The AFSC longline survey provides the primary abundance index for the stock assessment that determines the sablefish Allowable Biological Catch (ABC).

U.S.-Japan Cooperative Survey (1979-1994)

With passage of the Fishery Conservation and Management Act in 1976, foreign vessels fishing in U.S. waters were required to provide either fisheries research or markets for this privilege. This requirement was sometimes called the “fish-and-chips” policy. The Far Seas Fisheries Agency of Japan began a longline survey for sablefish in Alaska in 1978 as a “chip” to trade for continued commercial sablefish fishing in federal waters off Alaska.
Beginning in 1979, Japan Far Seas Fishery Agency and the National Marine Fisheries Service conducted an annual, cooperative longline survey along Alaska's continental slope. Sigler (1987) provides survey methods. Beginning in 1989, however, the survey was conducted by a private Japanese organization, the North Pacific Cooperative Fisheries of Japan, in cooperation with the AFSC. Since the survey in 1978 was experimental those data are not used for abundance trends. During 1979 and 1980 only the GOA was sampled. The AI area and GOA were sampled in 1981. The 1982-1994 surveys sampled the AI, Bering Sea, and GOA each year. A total of six different Japanese commercial vessels conducted the surveys during 1979-1994 (Table 81).

Alaska Fisheries Science Center Survey (1988-2014)

In 1988, as a means of transitioning to a U.S.-only survey, the AFSC conducted its first independent longline survey of the upper continental slope and selected gullies in the GOA. Beginning in 1996 the EAI were surveyed during even-numbered years, and starting in 1997 the upper continental slope of the EBS was sampled during odd-numbered years.

A preliminary survey was conducted in 1987 but those data are considered to be experimental and so are not used for time series analysis (Zenger et al. 1992). A unique aspect of the AFSC survey is that the charter vessel retains most of the catch after the scientific data are recorded. The survey is conducted jointly by two divisions of the AFSC, the Auke Bay Laboratories (ABL) and the Resource Assessment and Conservation Engineering (RACE) Division.
Survey Overlap

The Japanese surveys were continued during 1988-1994 to provide a comparison of the results of the two surveys. The overlap was used to test for differences between the two surveys and thus link the time series of standard longline surveys. It was helpful to have data from two similar surveys to assess the abundance of a fish stock in the survey areas. By 1994, statistical analyses by Kimura and Zenger (1997) showed that enough data had been collected to complete a valid comparison of abundance indices between the surveys. As a result, the cooperative longline survey was discontinued after 1994. The annual longline survey begun by the AFSC in 1987 has continued, and the entire data series from 1979 is being used to calculate an index of abundance for several groundfish species.

Domestic Survey Description

The survey fishes the upper continental slope and selected gullies of the GOA, the EAI, and GOA (Fig.1). The survey samples nearly all areas where adult sablefish are found. Depths sampled during the survey of the upper continental slope range from about 150-1,000 m (82-547 fm). The survey occurs during the summer and lasts 3 months. Survey operations have been conducted using chartered U.S. freezer longline vessels, which have an approximate overall length of 47 m (150 ft). The survey follows a systematic design (Sasaki 1985) by placing stations 20-30 nmi (37-56 km) apart and sampling these same GOA locations every year and the EAI and EBS stations every other year. Experiments comparing systematically located survey stations to nearby, randomly placed stations found no substantial difference in catch rates².

² Sigler, M. F. 2015. Habitat and Ecological Processes (HEPR) Program. Alaska Fisheries Science Center, 17109 Pt. Lena Loop Road, Juneau, AK 99801. Personal communication.
MATERIALS AND METHODS (1990-2014)

Vessels and Gear


Units of gear (skates) were 100 m (55 fm) long and contained 45 size 13/0 circle hooks. Hooks were attached to 38 cm (15 in) gangions that were secured to beackets (grommets of line) tied into the groundline at 2 m (6.5 ft) intervals. A total of 80 skates were tied together to form each of the two groundlines fished at each station. Gangions were constructed of medium lay #60 thread nylon, becket material was medium lay #72 thread nylon, and groundline was medium lay 9.5 mm (3/8 in) diameter nylon.

A set of gear consisted of a flag and buoy array at each end of the groundline. Each flag was followed sequentially by a 183-1,281 m (100-700 fm) long 9.5 mm diameter nylon buoyline, a 92 m (50 fm) section of 9.5 mm polypropylene floating line, a 16 kg (35 lb) piece of chain (to dampen the effect of wave surge on the buoyline), 92 m of 9.5 mm nylon line, a 27 kg (60 lb) halibut anchor, and a section of 366 m (200 fm) of
9.5 mm nylon line that is tied to the groundline. The groundline was weighted with 3.2 kg (7 lb) lead balls at the end of each skate. Hooks were hand baited with chopped squid (*Illex* sp.) at a rate of about 5.7 kg (12.5 lb) per 100 hooks. Squid heads and tentacles were not used for bait.

Total groundline set each day was 16 km (8.6 nmi) long and contained 160 skates and 7,200 hooks, except in the EBS where 180 skates with 8,100 hooks were set. From 1979-1994, EBS stations had from 160 to 180 skates set, and from 1997 to 2012, stations had 180 skates instead of the typical 160. Two 80-skate groundlines laid end-to-end were set at each station along the upper continental slope. However, in the gullies, two stations are fished, each with only a single groundline of 80 skates. These two gully stations, spaced 3.5-7 km (2-4 nmi) apart, were usually sampled on the same day. Fewer skates (80 vs. 160) are needed to sample a gully compared to a slope station because of the narrower range of depths covered in gullies. Only Amatuli Gully Station 87 consists of 160 skates because it was created during the U. S.-Japan cooperative longline survey, whereas all other gully stations were created during the NMFS longline survey. A description and diagram of the longline equipment and gear appear in Sigler and Zenger (1989) and Zenger et al. (1992). Details of survey methodology are found in Sigler and Lunsford (2003).

**Operations**

Annual survey periods varied over time. From 1988 to 1990 the survey period was from June 26 to September 12. The survey periods in 1991 through 1994 were 2 ½ weeks later than in 1988 through 1990. The 1991-1994 surveys were delayed to avoid the commercial sablefish fishery that started 45 days later than in 1988 through 1990.
Starting in 1995, the survey period was moved back to near the 1988-1990 time periods because of the extensive increase in length of the fishing season resulting from the implementation of the sablefish and halibut Individual Fishing Quota (IFQ) system. Beginning in 1998 the order in which the stations were sampled was changed to avoid conflicting with an early July rockfish trawl fishery in the central GOA. Instead of continuing to sample in an easterly direction from the Western Area near the Shumagin Islands to Dixon Entrance, the survey vessel completed the second leg and then transited to Dixon Entrance during early July. Sampling was then resumed in a westerly direction from Dixon Entrance to the Shumagin Islands.

Survey Area

Three regions are sampled: the EBS, AI and the GOA. The GOA is sampled every year. Starting in 1996, the AI were sampled during even-numbered years and the EBS was sampled during odd-numbered years. The survey currently begins with the AI or EBS, followed by the western GOA (Fig. 1). The survey vessel then travels to Dixon Entrance and samples the eastern then central GOA.

The primary habitat sampled is the upper continental slope. Selected gullies in the GOA also are sampled (see GOA section). The upper continental slope is sampled because it corresponds to the area in which commercial quantities of sablefish are generally found. Depths sampled during the survey of the upper continental slope range from about 150-1,000 m, but certain stations do not cover this full range. At each station, the gear was set from shallow to deep and retrieved in the same order. The objective of the setting pattern was to evenly distribute the sampling effort (gear) over depth range.
Except for the gully stations, the gear was set in two equal parts of 80 skates laid end-to-end.

Bering Sea

Sixteen stations were sampled along the upper continental slope of the EBS (Fig. 1) at the rate of one station per day. Two sets of 90 skates each, rather than the usual 80, were completed in the EBS. Four stations sampled during the U.S.-Japan cooperative longline surveys were eliminated because of frequent killer whale (*Orcinus orca*) depredation. Stations with ending depths of 425 m sampled during the U.S.-Japan cooperative longline surveys also were eliminated in the NMFS survey because these stations were designed to target Pacific cod and not sablefish.

Aleutian Islands Region

The AI region was sampled during even-numbered years (Fig. 1). Fourteen stations were sampled along the upper continental slope of the AI region at the rate of one station per day. Three stations fished during the U.S.-Japan cooperative longline surveys were eliminated because of frequent gear loss. Stations in the western half of the Aleutians Islands region sampled during the cooperative surveys were eliminated because the sablefish catch rates were low during all the years they were fished.
Gulf of Alaska

Forty-five stations were sampled along the upper continental slope of the GOA (Fig. 1) at the rate of one station per day. All stations sampled during the U.S.-Japan cooperative longline survey were retained in the NMFS survey.

Gully stations in the GOA were also sampled every year. Twenty-seven gully stations were sampled. Gullies were not sampled during the U.S.-Japan cooperative longline survey except for one station in Amatuli Gully. Sablefish abundance in gullies is significant, even though catch rates tend to be lower, because the gullies are large. The gully sampling rate expressed as the number of stations per unit area is about half that for the upper continental slope. Shelikof Trough, Amatuli Gully, W-Grounds, Yakutat Valley, Spencer Gully, Ommaney Trench, and Dixon Entrance were sampled. In addition, one station was sampled on the continental shelf off Baranof Island.

Gully station positions were chosen to more evenly distribute the stations within each gully, although each day’s sampling of two stations were limited to 3.5-7 km apart to keep traveling time reasonable. The first gully station starts in depths < 200 m and ends in depths > 200 m, and the second station lies entirely within depths > 200 m. Catch rates and length compositions from depths > 200 m are used to compute abundance indices. Catch numbers and length compositions from depths < 200 m are used to look for signs of relatively strong year classes of young or pre-recruit sablefish.
Data Collection

Catch data were recorded on a hand-held computer. During gear retrieval a scientist stationed at the vessel’s rail recorded the species of each hooked fish and the condition of each unoccupied hook such as baited or ineffective (i.e., absent, straightened, broken, or tangled). Time of day was recorded as each hook was tabulated, and depth was entered when the first hook of each fifth skate was retrieved or when crossing into a new depth interval (0-100 m, 101-200 m, 201-300 m, 301-400 m, 401-600 m, 601-800 m, 801-1,000 m and 1,001-1,200 m).

Length data were collected with a barcode-based measuring board and a barcode reader connected to a computer. Length was measured by depth stratum for sablefish, Pacific cod, giant grenadier, Pacific grenadier, Coryphaenoides acrolepis, popeye grenadier, Coryphaenoides cinereus, arrowtooth flounder, spiny dogfish, multiple rockfish species, and shortspine thornyheads. Lengths of sablefish, giant grenadier, spiny dogfish, and Pacific cod were recorded by sex.

Because of difficulty in accurate at-sea identification between rougheye and blackspotted rockfish, both species are tallied as rougheye rockfish. Thus, in this report blackspotted rockfish are included in the rougheye rockfish data.

Sablefish, shortspine thornyhead, and Greenland turbot were tagged on every 20th skate starting on skate 10 of every set. Pacific halibut were counted and released at the rail without measuring. Catch and length frequency data were transferred to a computer and electronic backup media twice a day. As in the previous AFSC surveys, the charter vessel was allowed to retain most of the catch once the scientific data were recorded and tagged fish were released.
Abundance Indices

Because we do not know the area of attraction for longline gear, an absolute biomass calculation is not possible. However, from catch rates and fish lengths, relative indices of abundance can be calculated (RPN and RPW). These indices are essentially area-weighted measures of numbers and weights of fish that can be tracked through time to follow trends in abundance. More details on RPN and RPW calculation can be found in Sigler and Zenger (1989) and Rodgveller\(^3\).

Length Data Clarification

Shortraker and rougheye rockfish are not easily identifiable from each other from a distance, so they are grouped as red rockfish when tallying catch. They are identified later when lengths are taken on board. There are no length data available in 1990 and in some areas in 1991, therefore species-specific catch, RPNs, and RPWs are not available because shortraker and rougheye rockfish were not identified to species those years. Arrowtooth flounder and shortspine thornyhead RPWs are also not available for the same areas and years because length data are not available. Lengths of sablefish in Spencer Gully are lacking in 1990, so there are no RPWs. Lastly, in the northeast AI in 1996 for all species, there are no RPNs or RPWs because raw data are lacking to make the calculations. These are all denoted with an "NA" in the RPN and RPW tables (Tables 1-79).

Whale Depredation

Whale depredation occurs when killer whales remove or damage hooked fish as the gear is being retrieved. Killer whale depredation of the survey's sablefish catches has been a problem since the beginning of the survey (Sasaki 1987). Sperm whale depredation affects longline catches, but evidence of depredation is not accompanied by obvious decreases in sablefish catch or common occurrence of remnant sablefish lips and jaws or bent and broken hooks. Data on sperm whale depredation have been collected since the 1998 longline survey. Hanselman et al. (2014) provide a detailed account of whale predation and its effect on longline survey catch rates.

Special Studies

A series of mostly 2-day experiments such as hook-cluster, hook-spacing, hook-baiting, and rockfish genetics have been conducted in the Yakutat area during 1998-2014 (Appendix).

Results

Relative Abundance (RPN) Trends, Gulf of Alaska

Sablefish

The general pattern of sablefish RPNs during the 1990-2014 surveys for the GOA (Table 1) is plotted in (Fig. 2). Overall sablefish abundance decreased from 1990 to 2014. Abundance decreased from 1990 to 1992, then increased a bit in 1993. RPN decreased to the lowest RPN of the survey in 2013, but increased somewhat in 2014.
Shortspine Thornyhead

The general pattern of thornyhead RPNs during the 1990-2014 surveys for the GOA (Table 2) is plotted in (Fig. 3). While there was variability in RPNs over the years, there was an overall increase in thornyhead catches from 1990 to 2014. Relative population numbers increased from 1990 to 1992, and decreased somewhat from 1992 to 2000. An increase in RPN was observed from 2000 to 2001 with declines in RPN during 2001-2004. An overall upward trend in RPN was observed during 2004-2014.

Rougheye and Blackspotted Rockfish

Shortraker, rougheye, and blackspotted rockfish are not easily identifiable from one another from a distance so they are grouped when tallying the catch. Shortraker are identified later when lengths are taken on board. Rougheye and blackspotted are often difficult to differentiate in the field and thus are combined. There are no length data available in 1990 and in some areas in 1991, so species-specific catch, RPNs, and RPWs are not available for those years.

The general pattern of rougheye and black spotted rockfish RPNs during the 1990-2014 surveys (Table 3) for the GOA is plotted in (Fig. 4). While RPN varied there was an upward trend during 1992-2000 where peak relative abundance was observed during 2000. RPNs declined overall from 2000 to 2005 and increased from 2005 to 2011.

Shortraker Rockfish

The general pattern of shortraker rockfish RPNs during the 1990-2014 surveys for the GOA (Table 4) is plotted in (Fig. 5). There was an overall increase in RPN from 1992

Arrowtooth Flounder

The general pattern of arrowtooth flounder RPNs during the 1990-2014 surveys for the GOA (Table 6) is plotted in (Fig. 6). In general, arrowtooth flounder RPNs alternated increases and decreases during 1990-1996. RPNs increased from 1996 to 1999. From 1999 to 2005, arrowtooth flounder RPNs decreased and then increased from 2005 to 2010 with an overall decrease during 2011-2014.

Other Species

Gulf of Alaska RPN values for halibut, Pacific cod, arrowtooth flounder, giant grenadier, Greenland turbot, spiny dogfish, and Pacific sleeper shark are listed in Tables 7-11.

Relative Biomass (RPW) Gulf of Alaska

Sablefish

The general pattern of sablefish RPWs during the 1990-2014 surveys for the GOA (Table 12) is plotted in (Fig. 2). Overall sablefish RPW decreased from 1990 to 2014. Sablefish RPWs fluctuated a bit but were relatively stable during 1990-1996. Relative population weights decreased from 1996 to 2000 but remained rather constant through 2006. Relative population weight decreased somewhat from 2006 to 2007 and steadily
increased from 2007 to 2012, then decreased to the lowest biomass of the survey in 2013 followed by an increase in 2014.

Shortspine Thornyhead

Shortspine thornyhead length data are incomplete for 1990 so there is no RPW for that year. The general pattern of shortspine thornyhead RPWs during the 1991-2014 surveys for the GOA (Table 13) is plotted in (Fig. 3). While there was variability in RPWs over the years, there was an overall increase in from 1990 to 2014. Relative population weights increased from 1991 to 1992, then decreased from 1992 to 1995, and increased from 1995 to 1999. After a decrease from 1999 to 2000, RPWs increased in 2001, then decreased to the lowest RPWs of the study period in 2004. An overall upward trend in RPWs, including the highest level of the study period in 2013, was observed from 2004 to 2014.

Rougheye and Blackspotted Rockfish

The general pattern of rougheye and blackspotted rockfish RPWs during the 1992-2014 surveys for the GOA (Table 14) is plotted in (Fig 4). While RPWs fluctuated over the years, there was an overall increase in RPWs from 1992 to 2014. Relative population weights increased from 1992 to 1997, decreased during 1998, and increased to the highest RPW’s of the study period in 2000. From 2000 to 2005, RPWs declined. An overall increase in RPWs was observed from 2005 to 2011, followed by decrease in 2012 and 2013 with an increase in 2014.
Shortraker Rockfish

The general pattern of shortraker rockfish RPWs during the 1992-2014 surveys for the GOA (Table 15) is plotted in (Fig. 5). While RPWs fluctuated over the years, there was an overall increase in RPWs from 1992 to 2014. From 1992 to 1994, RPWs remained rather constant and steadily increased from 1994 to the highest number of the study period in 2000.

Arrowtooth Flounder

Arrowtooth flounder length data are incomplete for 1990 and 1991 so there are no RPWs for those years. The general pattern of arrowtooth flounder RPWs during the 1992-2014 surveys for the GOA (Table 17) is plotted in (Fig. 6). An overall decrease in RPW’s was observed from 1992 to 2014. Relative population numbers fluctuated but remained constant from 1992 to 1996. RPW’s increased steadily from 1996 to the highest RPWs of the study period in 1999. Relative population weights steadily decreased from 1999 to 2005 and remained constant through 2011 then decreasing to the lowest RPW’s of the study in 2012 then increasing during 2013 and 2014.

Other Species

Gulf of Alaska RPW values for Pacific cod, arrowtooth flounder, giant grenadier, Greenland turbot, and spiny dogfish are listed in Tables 16-20.
Relative Abundance (RPN) Aleutian Islands and Bering Sea

Aleutian Island and Bering Sea RPN values for sablefish, shortspine thornyhead, rougheye and blackspotted rockfish, shortraker rockfish, Pacific cod; arrowtooth flounder, Pacific halibut, giant grenadier, Greenland turbot, spiny dogfish, and Pacific sleeper shark are listed in Tables 21-31.

Relative Biomass (RPW) Aleutian Islands and Bering Sea

Aleutian Island and Bering Sea RPW values for sablefish, shortspine thornyhead, rougheye and blackspotted rockfish, shortraker rockfish, Pacific cod, arrowtooth flounder, giant grenadier, Greenland turbot, and spiny dogfish are listed in Tables 32-40.

Relative Abundance (RPN) Gulf of Alaska Gullies

Gulf of Alaska Gully RPN values for sablefish, shortspine thornyhead, rougheye and blackspotted rockfish, shortraker rockfish, Pacific cod, arrowtooth flounder, Pacific halibut, giant grenadier, Greenland turbot, spiny dogfish, and Pacific sleeper shark are listed in Tables 41-51 and 61-71.

Relative Biomass (RPW) Gulf of Alaska Gullies

Gulf of Alaska Gully RPW values for sablefish, shortspine thornyhead, rougheye and blackspotted rockfish, shortraker rockfish, Pacific cod, arrowtooth flounder, giant grenadier, Greenland turbot, spiny dogfish listed in Tables 52-60 and 72-79.
CITATIONS


Table 1. -- Relative population number (RPN) of sablefish by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

<table>
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<th>Depth (m)</th>
<th>Year</th>
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<th>Chirikof</th>
<th>Kodiak</th>
<th>Yakutat</th>
<th>Yakutat</th>
<th>Southeast</th>
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Table 4. -- Relative population number (RPN) of shortraker rockfish by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

<p>| Depth (m) | Year | Shumagin | Chirikof | Kodiak | West Yakutat | East Yakutat | Southeast | Total |
|-----------|------|----------|----------|--------|--------------|--------------|-----------|
| 151-200   | 1990 | NA       | NA       | NA     | NA           | NA           | NA        | NA     |
|           | 1991 | NA       | NA       | 0      | 693          | NA           | NA        | 693    |
|           | 1992 | 21       | 0        | 0      | 0            | 0            | -         | 21     |
|           | 1993 | 0        | 0        | 1,661  | 0            | 0            | -         | 1,661  |
|           | 1994 | 0        | 0        | 0      | 0            | 0            | -         | 0      |
|           | 1995 | 68       | 0        | 0      | 0            | 0            | -         | 68     |
|           | 1996 | 0        | 0        | 0      | 299          | 0            | -         | 299    |
|           | 1997 | 8        | 0        | 0      | 0            | -            | -         | 8      |
|           | 1998 | 8        | 0        | 0      | 0            | 0            | 0         | 8      |
|           | 1999 | 0        | 0        | 0      | 54           | 0            | -         | 54     |
|           | 2000 | 0        | 0        | 0      | 394          | 0            | 0         | 394    |
|           | 2001 | 0        | 0        | 90     | 67           | 0            | -         | 157    |
|           | 2002 | 32       | 0        | 92     | 1,214        | 0            | 0         | 1,339  |
|           | 2003 | 38       | 8        | 64     | 0            | -            | -         | 109    |
|           | 2004 | 288      | 0        | 0      | 439          | 0            | -         | 727    |
|           | 2005 | 0        | 0        | 0      | 364          | 0            | -         | 364    |
|           | 2006 | 97       | 0        | 0      | 64           | 0            | -         | 160    |
|           | 2007 | 0        | 0        | 0      | 349          | 0            | -         | 349    |
|           | 2008 | 532      | 0        | 0      | 0            | -            | 0         | 532    |
|           | 2009 | 37       | 0        | 239    | 512          | 0            | -         | 788    |
|           | 2010 | 210      | 0        | 0      | 158          | 0            | -         | 368    |
|           | 2011 | 0        | 0        | 0      | 0            | -            | -         | 0      |
|           | 2012 | 51       | 0        | 0      | 640          | 0            | -         | 691    |
|           | 2013 | 48       | 0        | 0      | 0            | 0            | -         | 48     |
|           | 2014 | 182      | 0        | 0      | 140          | 0            | 0         | 322    |
| 201-300   | 1990 | NA       | NA       | NA     | NA           | NA           | NA        | NA     |
|           | 1991 | NA       | NA       | 128    | 996          | NA           | NA        | 1,124  |
|           | 1992 | 120      | 71       | 163    | 864          | 597          | 19        | 1,833  |
|           | 1993 | 186      | 12       | 98     | 296          | 0            | 119       | 711    |
|           | 1994 | 615      | 25       | 69     | 416          | 226          | 464       | 1,815  |
|           | 1995 | 2,034    | 12       | 101    | 674          | 0            | 73        | 2,894  |
|           | 1996 | 662      | 101      | 423    | 539          | 817          | 461       | 3,004  |
|           | 1997 | 722      | 6        | 73     | 1,844        | 259          | 143       | 3,048  |
|           | 1998 | 1,020    | 111      | 145    | 871          | 592          | 104       | 2,844  |</p>
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Table 6. -- Relative population number (RPN) of arrowtooth flounder by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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Table 7. -- Relative population number (RPN) of Pacific halibut by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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Table 10.--Relative population number (RPN) of spiny dogfish by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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Table 12. -- Relative population weight (RPW) of sablefish by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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Table 16. -- Cont.
Table 17. -- Relative population weight (RPW) of arrowtooth flounder by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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|-----------|------|----------|----------|--------|---------------|---------------|-----------|
| 801-1000  | 2007 | 0        | 0        | 0      | 0             | 0             | 0         | 0      |
|           | 2008 | 79       | 0        | 0      | 0             | 0             | 15        | 94     |
|           | 2009 | 0        | 0        | 0      | 0             | 0             | 0         | 0      |
|           | 2010 | 0        | 0        | 0      | 0             | 0             | 0         | 0      |
|           | 2011 | 0        | 0        | 0      | 0             | 0             | 0         | 0      |
|           | 2012 | 0        | 0        | 0      | 0             | 0             | 7         | 7      |
|           | 2013 | -        | 0        | 0      | 0             | 0             | 0         | 0      |
|           | 2014 | -        | 0        | 0      | 0             | 0             | 38        | 38     |
| 151-1000  | 1990 | NA       | NA       | NA     | NA            | NA            | NA        | NA     |
|           | 1991 | NA       | NA       | 30,315 | 11,819        | NA            | NA        | 42,134 |
|           | 1992 | 41,146   | 34,216   | 18,683 | 25,728        | 1,598         | 3,598     | 124,968|
|           | 1993 | 30,920   | 51,504   | 46,680 | 62,801        | 1,202         | 6,933     | 200,039|
|           | 1994 | 30,323   | 30,563   | 31,354 | 38,083        | 1,280         | 1,963     | 133,566|
|           | 1995 | 37,958   | 49,260   | 66,252 | 23,574        | 3,949         | 3,744     | 184,736|
|           | 1996 | 42,668   | 29,683   | 32,207 | 7,020         | 682           | 2,616     | 114,877|
|           | 1997 | 53,418   | 21,578   | 32,783 | 28,013        | 1,429         | 4,370     | 141,592|
|           | 1998 | 77,077   | 32,887   | 26,322 | 64,437        | 3,142         | 5,288     | 209,155|
|           | 1999 | 55,597   | 51,537   | 53,414 | 49,978        | 2,416         | 5,046     | 217,988|
|           | 2000 | 66,010   | 42,655   | 59,456 | 64,437        | 3,142         | 5,288     | 198,434|
|           | 2001 | 39,647   | 41,160   | 41,241 | 9,372         | 1,039         | 4,060     | 136,518|
|           | 2002 | 31,211   | 21,965   | 24,991 | 15,463        | 723           | 3,710     | 98,064 |
|           | 2003 | 34,234   | 14,751   | 6,777  | 3,889         | 727           | 4,186     | 64,565 |
|           | 2004 | 16,002   | 16,770   | 13,351 | 1,918         | 378           | 853       | 49,272 |
|           | 2005 | 11,484   | 14,724   | 16,111 | 2,739         | 282           | 762       | 46,101 |
|           | 2006 | 26,171   | 13,504   | 21,875 | 6,330         | 495           | 2,486     | 70,861 |
|           | 2007 | 17,670   | 15,215   | 20,057 | 6,792         | 1,528         | 4,596     | 65,857 |
|           | 2008 | 17,543   | 16,125   | 17,884 | 6,822         | 1,282         | 9,116     | 68,772 |
|           | 2009 | 18,456   | 14,494   | 17,793 | 11,182        | 1,052         | 4,892     | 67,869 |
|           | 2010 | 21,731   | 11,103   | 24,187 | 22,597        | 3,705         | 6,064     | 89,388 |
|           | 2011 | 12,180   | 13,700   | 24,377 | 6,348         | 1,920         | 3,224     | 61,749 |
|           | 2012 | 7,519    | 6,588    | 12,005 | 8,663         | 2,797         | 2,028     | 39,600 |
|           | 2013 | 11,024   | 12,098   | 12,399 | 12,825        | 662           | 1,559     | 50,566 |
|           | 2014 | 7,055    | 7,745    | 17,565 | 19,704        | 1,853         | 2,268     | 56,190 |
Table 18. -- Relative population weight (RPW) of giant grenadier by North Pacific Fishery Management Council (NPFMC) regulatory districts and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-2014. A dash (-) indicates there was no effort.

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Table 21. -- Relative population number (RPN) of sablefish by depth interval in the Aleutian Islands (AI) and Bering Sea North Pacific Fishery Management Council regulatory areas from National Marine Fisheries Service longline surveys, 1996-2014. A dash (-) indicates there was no effort.

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Table 24. -- Relative population number (RPN) of shortraker rockfish by depth interval in the Aleutian Islands (AI) and Bering Sea North Pacific Fishery Management Council regulatory areas from National Marine Fisheries Service longline surveys, 1996-2014. A dash (-) indicates there was no effort.

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|          |         | 1998 | 25,975      | 14,643      | -            | -            | -            | 40,618  |
|          |         | 1999 | -           | -           | 8,111        | 18,133       | 3,837        | 8,873   |
|          |         | 2000 | 24,735      | 19,118      | -            | -            | -            | 43,854  |
|          |         | 2001 | -           | -           | 3,850        | 29,741       | 5,996        | 8,236   |
|          |         | 2002 | 12,917      | 7,349       | -            | -            | -            | 20,266  |
|          |         | 2003 | -           | -           | 2,118        | 40,387       | 7,784        | 7,323   |
|          |         | 2004 | 9,363       | 9,333       | -            | -            | -            | 18,696  |
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Table 26. -- Relative population number (RPN) of arrowtooth flounder by depth interval in the Aleutian Islands (AI) and Bering Sea North Pacific Fishery Management Council regulatory areas from National Marine Fisheries Service longline surveys, 1996-2014. A dash (-) indicates there was no effort.

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|           | 2013 | -           | -           | 0            | 0            | 0            | 0            | 0     |
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|           | 2005 | -           | -           | 4            | 0            | 0            | 0            | 4     |
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|           | 2007 | -           | -           | 157          | 23           | 0            | -            | 180   |
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|          | 1998 | 1,871 | 8,423 | -           | -           | -           | -           | 10,294|
|          | 1999 | -     | -     | 0           | 37          | 0           | 0           | 37    |
|          | 2000 | 2,112 | 10,070| -           | -           | -           | -           | 12,182|
|          | 2001 | -     | -     | 0           | 0           | 0           | 0           | 0     |
|          | 2002 | 5,457 | 6,866 | -           | -           | -           | -           | 12,324|
|          | 2003 | -     | -     | 0           | 277         | 169         | 0           | 447   |
|          | 2004 | 3,296 | 9,413 | -           | -           | -           | -           | 12,709|
|          | 2005 | -     | -     | 8,085       | 0           | 28          | 44          | 8,157 |
|          | 2006 | 701   | 21,178| -           | -           | -           | -           | 21,879|
|          | 2007 | -     | -     | 95          | 133         | 0           | 0           | 229   |
|          | 2008 | 3,034 | 11,553| -           | -           | -           | -           | 14,587|
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|          | 2010 | 3,113 | 3,797 | -           | -           | -           | -           | 6,910 |
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Table 47. -- Relative population number (RPN) of Pacific halibut by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska (GOA), 1990-2014. A dash (-) indicates there was no effort.

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Table 48. -- Relative population number (RPN) of giant grenadier by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska (GOA), 1990-2014. A dash (-) indicates there was no effort.

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Table 60. -- Relative population weight (RPW) of spiny dogfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska (GOA), 2010-2014. A dash (­) indicates there was no effort.

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Table 61. -- Relative population number (RPN) of sablefish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 62. -- Relative population number (RPN) of shortspine thornyhead by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 63. -- Relative population number (RPN) of roughey and blackspotted rockfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 64. -- Relative population number (RPN) of shortraker rockfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 65. -- Relative population number (RPN) of Pacific cod by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 66. -- Relative population number (RPN) of arrowtooth flounder by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 67. -- Relative population number (RPN) of Pacific halibut by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 68. -- Relative population number (RPN) of giant grenadier by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 69. -- Relative population number (RPN) of Greenland turbot by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 70. -- Relative population number (RPN) of spiny dogfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 71. -- Relative population number (RPN) of Pacific sleeper shark by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 72. -- Relative population weight (RPW) of sablefish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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<th>Iphagenia Gully</th>
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Table 74. -- Relative population weight (RPW) of rougheye and blackspotted rockfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 75. -- Relative population weight (RPW) of shortraker rockfish by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 76. -- Relative population weight (RPW) of Pacific cod by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 77. -- Relative population weight (RPW) of arrowtooth flounder by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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Table 78. -- Relative population weight (RPW) of giant grenadier by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

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<th>Depth (m)</th>
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<th>Iphagenia Gully</th>
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Table 79. -- Relative population weight (RPW) of Greenland turbot by gully and depth interval from National Marine Fisheries Service longline surveys of the Gulf of Alaska, 1990-1995. A dash (-) indicates there was no effort.

<table>
<thead>
<tr>
<th>Depth (m)</th>
<th>Year</th>
<th>Shumagin Strath</th>
<th>Alsek Strath</th>
<th>Iphagenia Gully</th>
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Table 80. -- Species and numbers caught from National Marine Fisheries Service longline surveys during 1990 - 2014.

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<td><em>Sebastolobus alasc anus</em></td>
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<td>Arrowtooth flounder</td>
<td><em>Atheresthes stomias</em></td>
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</tr>
<tr>
<td>big skate</td>
<td>Raja binoculata</td>
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<tr>
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<tr>
<td>slender seawhips</td>
<td>Stylatula sp.</td>
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</tr>
<tr>
<td>Blue shark</td>
<td>Prionace glauca</td>
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</tr>
<tr>
<td>Aurora rockfish</td>
<td>Sebastes aurora</td>
<td>83</td>
</tr>
<tr>
<td>Common Name</td>
<td>Scientific Name</td>
<td>Number Caught</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------------</td>
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<tr>
<td>Albatross unident.</td>
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<td>83</td>
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<td>Black-footed albatross</td>
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<tr>
<td>hydroid unident.</td>
<td></td>
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</tr>
<tr>
<td>Bairdi Tanner Crab</td>
<td>Chionocetes bairdi</td>
<td>57</td>
</tr>
<tr>
<td>Atka mackerel</td>
<td>Pleurogrammus monopterygius</td>
<td>56</td>
</tr>
<tr>
<td>Bubble Gum Coral</td>
<td>Paragorgia arborea</td>
<td>51</td>
</tr>
<tr>
<td>Bignose sculpin</td>
<td>Hemitripterus bolini</td>
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<tr>
<td>cup coral</td>
<td>Scleractinia unident.</td>
<td>38</td>
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<tr>
<td>Blackgill rockfish</td>
<td>Sebastes melanostomus</td>
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</tr>
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<td>Sebastes, unidentified</td>
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<td>Paralithodes camtschatica</td>
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<td>Twoline eelpout</td>
<td>Bothrocara brunneum</td>
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<td>Bocaccio rockfish</td>
<td>Sebastes paucispinis</td>
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</tr>
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<td>Oncorhynchus keta</td>
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<tr>
<td>Pacific lamprey</td>
<td>Lampetra tridentata</td>
<td>3</td>
</tr>
<tr>
<td>Common Name</td>
<td>Scientific Name</td>
<td>Number Caught</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------</td>
<td>---------------</td>
</tr>
<tr>
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<td>3</td>
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<tr>
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<tr>
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<td>Pleuronectiformes</td>
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<td>Parophrys vetulus</td>
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<tr>
<td>Hyas sp.</td>
<td>Hyas sp.</td>
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<tr>
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<td>Korean Horsehair crab</td>
<td>Enmacrus isenbecki</td>
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<td>common mud star</td>
<td>Ctenodiscus crispatus</td>
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<td>squid unident.</td>
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<td>Bathymasteridae</td>
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<tr>
<td>Myoxocephalix sp.</td>
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</table>
Figure 1. -- NMFS Longline Survey stations.
Figure 2. -- Gulf of Alaska sablefish relative population number (RPN) and relative biomass (RPW), 1990-2014.
Figure 3. -- Gulf of Alaska shortspine thornyhead relative population number (RPN) and relative biomass (RPW), 1990-2014.
Figure 4. -- Gulf of Alaska rougheye and black spotted rockfish relative population number (RPN) and relative biomass (RPW), 1990-2014.
Figure 5. -- Gulf of Alaska shortraker rockfish relative population number (RPN) and relative biomass (RPW), 1990 - 2014.
Figure 6. -- Gulf of Alaska arrowtooth flounder relative population number (RPN) and relative biomass (RPW), 1990-2014.
APPENDIX

1998 Hook-Cluster Experiment

A hook-cluster experiment was conducted near Yakutat during July 21-27. The purpose of the experiment was to test an assumption on how to interpret the longline survey results. The survey catch per skate is assumed to be an index of relative abundance; for example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if bait location by sablefish is more difficult after several baits are taken; then the relationship between catch rate and relative abundance would be nonlinear and the gear would be said to "saturate". Results from hook-timer experiments show that the probability that a sablefish locates a bait does not change, at least as long as half the baits remain available.

The purpose of the hook-cluster experiment was to test the ability of sablefish to locate baited hooks when there are gaps between clusters of hooks. The gaps are equivalent to line intervals unavailable to capture of fish. Sablefish must locate the clusters of available baits between the gaps. Varying the length of the gaps provides information on the search area of sablefish and their ability to locate available baits. Although the gap varies, the total number of hooks per skate is standardized to eliminate increasing attraction area with more hooks. Gaps from 4 to 42 m were tested. If sablefish catch rate is the same for all gaps, this implies that sablefish are efficient bait predators and that saturation does not occur at least when baits are spaced less than 42 m apart.

1999 Hook-Spacing Experiment

A longline hook-spacing experiment was conducted near Yakutat during 25-26 July 1999. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance; for example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1 meter hook spacing, but this spacing differs between vessels and may change with time. In the hook-spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and an earlier hook-spacing experiment conducted in 1986, catch rate per hook increased as hook spacing increased to an asymptote at four meter spacing. Catch per hook for one-meter spacing, the most common spacing currently in the fishery, was about half that for the four-meter spacing. These results imply that fishery catch rates should be standardized by longline set to account for differences in hook spacing.
2000 Hook-Spacing Experiment

A longline hook-spacing experiment was conducted near Yakutat during 25-26 July 2000. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance, for example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1 m hook spacing, but this spacing differs among vessels and may change with time. In the hook-spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and earlier hook spacing experiments conducted in 1986 and 1999, catch rate per hook increased as hook spacing increased to an asymptote at four meter spacing. Catch per hook for 1-m spacing, the most common spacing currently in the fishery, was about half that for the 4-m spacing. These results imply that analysis of fishery catch rates should be standardized by longline set to account for differences in hook spacing.

2001 Hook-Spacing Experiment

A longline hook-spacing experiment was conducted near Yakutat 25-26 July 2001. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance. For example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1 m hook spacing, but this spacing differs among vessels and may change with time. In the hook-spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and earlier hook spacing experiments conducted in 1986 and 1999-2001 catch rate per hook increased as hook spacing increased to an asymptote at the four meter spacing.

2002 Hook-Spacing Experiment

A longline hook-spacing experiment was conducted near Yakutat during 25-26 July 2002. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance, for example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1 m hook spacing, but this spacing differs among vessels and may change with time. In the hook-spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and earlier hook spacing experiments conducted in 1986, 1999 and 2001, catch rate per hook increased as hook spacing increased to an asymptote at 4-m spacing. Catch per hook for one-meter spacing, the most common spacing currently in the fishery, was about half that for the
four-meter spacing. These results imply that analysis of fishery catch rates should be standardized by longline set to account for differences in hook spacing.

2003 Hook-Spacing Experiment

A longline hook spacing experiment was conducted near Yakutat 25 26 July 2003. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance. For example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1-m hook spacing, but this spacing differs among vessels and may change with time. In the hook spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and earlier hook spacing experiments conducted in 1986 and 1999 2001 catch rate per hook increased as hook spacing increased to an asymptote at the 4-m spacing. Catch per hook for one meter spacing, the most common spacing currently in the fishery, was about half that for the four meter spacing. These results imply that analysis of fishery catch rates should be standardized by longline set to account for differences in hook spacing.

2004 Hook-Spacing Experiment

A longline hook-spacing experiment was conducted near Yakutat during 25-26 July 2004. The purpose of the experiment was to test an assumption on how to interpret longline fishery catch rates. The fishery catch per skate is assumed to be an index of relative abundance, for example, a 10% difference in catch rate reflects a 10% difference in relative abundance. This assumption would be wrong if increasing the hook spacing increased the fishing power of each hook. Most (about 70%) sablefish longline fishermen currently use 1 meter hook spacing, but this spacing differs among vessels and may change with time. In the hook-spacing experiment, circle hooks (size 13/0) baited with squid were used. Four hook spacings were tested, 0.5, 1, 2, and 4 m. Six sets were completed. Each set contained all hook spacings. For both this experiment and earlier hook spacing experiments conducted in 1986, 1999 and 2001-2003, catch rate per hook increased as hook spacing increased to an asymptote at four meter spacing. Catch per hook for 1-m spacing, the most common spacing currently in the fishery, was about half that for the 4-m spacing. These results imply that analysis of fishery catch rates should be standardized by longline set to account for differences in hook spacing.

2005 Rougheye Rockfish genetics Experiment

A rougheye rockfish genetics experiment was conducted near Yakutat during 25-26 July 2005. Recent genetic work by ABL and the University of Alaska Fairbanks (UAF) indicates there may be two genetically distinct species of rougheye rockfish (Sebastes aleutianus). Many of the specimens used for this analysis were collected during the sablefish longline survey. One of the hypotheses of this work is that these two species are separated by depth. Only a general
depth stratum with an accuracy of approximately 100 m was available for specimens collected from the longline survey. More accurate depth information is necessary to determine if there is a depth specific influence on these two species.

The purpose of this study was to collect genetic tissue of roughey rockfish along with detailed depth information to investigate depth specific distribution of roughey rockfish. Sixteen time depth recorders were placed along the groundline to record accurate depth measurements. Ninety-eight roughey rockfish were caught and sampled for genetic identification. Results should help to determine if depth differences exist between the two species.

2006 Roughey Rockfish genetics Experiment

A roughey rockfish genetics experiment was conducted near Yakutat 25-26 July 2006. Recent genetic work by ABL and the University of Alaska Fairbanks (UAF) indicates there may be two genetically distinct species of roughey rockfish (Sebastes aleutianus). One of the hypotheses of this previous work is that these two species are separated by depth. Many of the specimens used for the previous analysis were collected during the sablefish longline survey. But only a general depth stratum with an accuracy of approximately 100 m was available for specimens collected from the longline survey. More accurate depth information was necessary to determine if there is a depth-specific influence on these two species.

The purpose of the 2006 study was to collect genetic tissue of roughey rockfish along with detailed depth information to investigate depth specific distribution of roughey rockfish. Sixteen time depth recorders were placed along the groundline to record accurate depth measurements. One-hundred forty-nine roughey rockfish were caught and sampled for genetic identification. Results should help to determine if depth differences exist between the two species.

2007 Hook Baiting Experiment

A gear experiment was conducted near Yakutat during July 25-26 to test the differences in catching efficiencies between auto-bait gear and standard hand-baited survey gear. Auto-bait machines have increased in popularity among the fleet in Alaska and are now commonly used by many vessels as the preferred baiting method. With the increase in vessels using auto-bait gear, experienced hand-bait vessels may be more difficult to find to conduct surveys. Additionally, auto-bait machines use a different gear than what is currently used on the survey. The groundline is typically different, gangions are different lengths, swivels are used on auto-bait gear, and hooks are straight rather than offset. Conducting the survey using auto-bait gear may sacrifice the time series without statistical calibration studies whereas maintaining hand-baiting may become more difficult as more vessels switch to auto-bait gear. To ensure the future of the survey time series, we plan to conduct a series of experiments which will test the fishing effectiveness of auto-bait gear side-by-side with hand-bait gear. Each day two sets were made for a total of four sets. For each set 80 skates were deployed. Ten skates of standard survey gear (2 m spacing, 45 hooks) were placed next to each anchor to avoid gear snarls with the experimental gear. Beginning on the eleventh skate modified
survey gear (1.2 m spacing, 73 hooks) was alternated with auto-bait gear (1.2 m spacing, 73 hooks) every tub of gear (every two skates). This configuration was done for a total of 60 skates (30 of each gear type).

Preliminary results indicate standard survey gear outfished auto-bait gear. These results indicate the potential of different catching efficiencies between the two gear types. To better understand differences in catch rates further studies will likely be done during future surveys to test the effects of hook size, gangion length, gangion swivels, and differences in groundline.

2008 Hook Baiting Experiment

A gear experiment was conducted near Yakutat July during 25-26 to test the differences in catching efficiencies between auto-bait gear and standard hand-baited survey gear. Auto-bait machines have increased in popularity among the fleet in Alaska and are now commonly used by many vessels as the preferred baiting method. With the increase in vessels using auto-bait gear, experienced hand-bait vessels may be more difficult to find to conduct surveys. Additionally, auto-bait machines use a different gear than what is currently used on the survey. The groundline is typically different, gangions are different lengths, swivels are used on auto-bait gear, and hooks are straight rather than offset. Conducting the survey using auto-bait gear may sacrifice the time series without statistical calibration studies whereas maintaining hand-baiting may become more difficult as more vessels switch to auto-bait gear. To ensure the future of the survey time series, we plan to conduct a series of experiments which will test the fishing effectiveness of auto-bait gear side-by-side with hand-bait gear. Each day two sets were made for a total of four sets. For each set 80 skates were deployed. Ten skates of standard survey gear (2m spacing, 45 hooks) were placed next to each anchor to avoid gear snarls with the experimental gear. Beginning on the eleventh skate modified survey gear (1.2m spacing, 73 hooks) was alternated with auto-bait gear (1.2m spacing, 73 hooks) every tub of gear (every two skates). This configuration was done for a total of 60 skates (30 of each gear type).

Preliminary results indicate standard survey gear outfished auto-bait gear. These results indicate the potential of different catching efficiencies between the two gear types. To better understand differences in catch rates further studies will likely be done during future surveys to test the effects of hook size, gangion length, gangion swivels, and differences in groundline.

2009 Sperm Whale Depredation Experiment

A sperm whale depredation experiment was conducted near Yakutat during July 21-22 to test methods for quantifying depredation rates. Sperm whale depredation has become frequent enough during recent longline surveys that it may be starting to affect population estimates. Information regarding sperm whale depredation has been collected during the longline survey since 1998. Killer whales also depredate on the longline but defining depredation is much easier as catch is greatly reduced when killer whales are present. Efforts to quantify the amount of sablefish removed from the longline by sperm whales, however, have been attempted but are difficult due to the natural variation of catch at different locations and times. Accurate estimates of depredation are needed to effectively estimate the total number of sablefish lost to whale predation and to determine if depredation is increasing over time. If depredation is increasing over time, baseline removal estimates are needed in order to standardize survey catch rates which are used for setting annual harvest quotas.
The 2-day experiment was a collaborative effort between the Southeast Alaska Sperm Whale Avoidance Project, the Alaska Longline Fishermen’s Association, Scripps Institution of Oceanography, the University of Alaska, and the Alaska Fisheries Science Center. Researchers were on-board to assess whether acoustic recording of “creak” sounds produced by sperm whales for echolocation could provide a low-cost means for remotely measuring depredation activity around a longline vessel. A “creak” is a rapid series of clicks in short succession which may indicate that a whale is homing in on a prey item. Enumerating the number of “creaks” that occur during hauling operations may provide a quantitative means of evaluating sperm whale depredation. Fishing operations for the sperm whale depredation experiment were conducted off Yakutat Bay. Standard survey operating procedures were followed except for set location. The vessel captain chose the specific fishing sites within a pre-described area with the requirement that the longline gear was set parallel to the depth contour so that catches were generally similar within a set and in areas where sperm whales are commonly observed. Two sites were fished each day for a total of four sites during the two-day experiment (Appendix Table 1). Prior to the setting of gear an underwater camera was attached to the groundline. This camera was programmed to record events during gear retrieval in an effort to capture depredation events. Following the setting of gear, two acoustic recorders were deployed on independent buoy lines spaced evenly along the longline sets. These devices are designed to passively measure distinct sounds whales make when in the vicinity of the recorder. During fishing operations an observer was present to visually monitor the number of sperm whales present and collect photo documentation for whale identification. Catch was tallied for each hook and any indication of depredation was noted and was associated with a time stamp.

Four sets were successfully completed. The acoustic recorders yielded 22 hours of data and the camera successfully captured images during haulback. Visual observations counted one sperm whale on the first day and six whales on the second day. Initial analysis of a subset of the data indicates that the recorder data captured whale echolocation sounds and is high quality. Further analysis of this data is underway.

Appendix Table 1. -- Set information by station and haul for 2009 NMFS longline survey 2-day experiment. Positions in decimal degree (DD) format.

<table>
<thead>
<tr>
<th>Haul</th>
<th>Date</th>
<th>Start Lat</th>
<th>Start Lon</th>
<th>End Lat</th>
<th>End Lon</th>
<th>Start Depth (m)</th>
<th>End Depth (m)</th>
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<tbody>
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<td>1</td>
<td>21-Jul</td>
<td>59.14</td>
<td>141.66</td>
<td>59.17</td>
<td>141.77</td>
<td>470</td>
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<td>59.17</td>
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<td>59.18</td>
<td>141.78</td>
<td>59.23</td>
<td>141.88</td>
<td>480</td>
<td>736</td>
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</table>

2010 Electronic Data Collection and Hook Tension Device Experiment

Two special projects were conducted near Yakutat during July 21-22 to test methods for improving the electronic data collection system and for testing hook tension devices. The two-day experiment included staff from the Alaska Fisheries Science Center, Finsight Consulting, and Andrew’s Cooper Engineering. Several new data collection techniques were beta-tested for use in the 2011 survey. In addition, hook tension devices were tested on the longline to determine feasibility.
More information on these devices and the data collection tools will be available in the future. During the 2-day experiment four sets were completed (Appendix Table 2).

### Appendix Table 2. -- Set information by station and haul for the 2009 NMFS longline survey 2-day experiment. Positions in decimal degree (DD) format.

<table>
<thead>
<tr>
<th>Haul</th>
<th>Date</th>
<th>Start Lat.</th>
<th>Start Long.</th>
<th>End Lat.</th>
<th>End Long.</th>
<th>Start Depth (m)</th>
<th>End Depth (m)</th>
</tr>
</thead>
<tbody>
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<td>58.97</td>
<td>141.17</td>
<td>58.97</td>
<td>141.29</td>
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<tr>
<td>2</td>
<td>21-Jul</td>
<td>58.91</td>
<td>141.07</td>
<td>58.96</td>
<td>141.15</td>
<td>716</td>
<td>896</td>
</tr>
<tr>
<td>3</td>
<td>22-Jul</td>
<td>58.85</td>
<td>141.04</td>
<td>58.91</td>
<td>141.04</td>
<td>617</td>
<td>768</td>
</tr>
<tr>
<td>4</td>
<td>22-Jul</td>
<td>58.78</td>
<td>140.98</td>
<td>58.84</td>
<td>141.03</td>
<td>590</td>
<td>680</td>
</tr>
</tbody>
</table>

### 2012 Pollock Bait Experiment

A bait experiment was conducted near Yakutat during July 21-22 to test catching efficiency of walleye pollock (*Gadus chalcogramma*) compared to squid (*Illex* sp.) bait. Four sets were made in the course of the two days consisting of 160 skates per set (Appendix Table 3). Each bait type was interspersed during a set in groupings of 10 skates each starting with squid (e.g., skates 1-10 squid; skates 11-20 walleye pollock...). This resulted in a total of 80 skates baited with squid and 80 skates baited with walleye pollock per set. Results will be tabulated and compared to data gathered during the 2011 longline survey.

During the two-day experiment four sets were completed (Appendix Table 3) and 2,696 sablefish were caught.

### Appendix Table 3. -- Set information by station and haul for the 2012 NMFS longline survey 2-day experiment. Positions in decimal degree (DD) format.

<table>
<thead>
<tr>
<th>Haul</th>
<th>Date</th>
<th>Start Lat.</th>
<th>Start Long.</th>
<th>End Lat.</th>
<th>End Long.</th>
<th>Start Depth (m)</th>
<th>End Depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-Jul</td>
<td>58.79</td>
<td>140.99</td>
<td>58.84</td>
<td>141.05</td>
<td>650</td>
<td>824</td>
</tr>
<tr>
<td>2</td>
<td>21-Jul</td>
<td>58.86</td>
<td>141.05</td>
<td>58.92</td>
<td>141.08</td>
<td>689</td>
<td>770</td>
</tr>
<tr>
<td>3</td>
<td>22-Jul</td>
<td>58.93</td>
<td>141.07</td>
<td>58.98</td>
<td>141.18</td>
<td>671</td>
<td>856</td>
</tr>
<tr>
<td>4</td>
<td>22-Jul</td>
<td>58.98</td>
<td>141.19</td>
<td>58.97</td>
<td>141.31</td>
<td>739</td>
<td>829</td>
</tr>
</tbody>
</table>
2013 Electronic Data Collection and Hook Tension Device Experiment

A bait experiment was conducted near Yakutat during July 21-22 to test catching efficiency of walleye pollock (Gadus chalcogramma) compared to squid (Illex sp.) bait. Four sets were made in the course of the two days consisting of 160 skates per set (Table A1). Each bait type was interspersed during a set in groupings of 10 skates each starting with squid (e.g., skates 1-10 squid; skates 11-20 pollock...). This resulted in a total of 80 skates baited with squid and 80 skates baited with pollock per set. Results will be tabulated and compared to data gathered during the 2012 longline survey. During the 2-day experiment four sets were completed (Appendix Table 4).

Appendix Table 4. -- Set information by station and haul for the 2013 NMFS longline survey 2-day experiment. Positions in decimal degree (DD) format.

<table>
<thead>
<tr>
<th>Haul</th>
<th>Date</th>
<th>Start Lat</th>
<th>Start Long</th>
<th>End Lat</th>
<th>End Long</th>
<th>Start Depth (m)</th>
<th>End Depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-Jul</td>
<td>59.24</td>
<td>141.91</td>
<td>59.25</td>
<td>142.05</td>
<td>525</td>
<td>666</td>
</tr>
<tr>
<td>2</td>
<td>21-Jul</td>
<td>59.25</td>
<td>142.07</td>
<td>59.29</td>
<td>142.19</td>
<td>581</td>
<td>700</td>
</tr>
<tr>
<td>3</td>
<td>22-Jul</td>
<td>59.12</td>
<td>141.66</td>
<td>59.17</td>
<td>141.76</td>
<td>552</td>
<td>706</td>
</tr>
<tr>
<td>4</td>
<td>22-Jul</td>
<td>59.19</td>
<td>141.80</td>
<td>59.24</td>
<td>141.91</td>
<td>576</td>
<td>721</td>
</tr>
</tbody>
</table>

2014 Hook Type Experiment

A hook type experiment was conducted near Yakutat during July 21-22 to test the catching efficiency of E-Z-baiter (auto-baiter) circle hooks versus hand-bait circle hooks. Mustad brand E-Z-Baiter circle hooks (Mustad #39961) were fished as well as the standard survey Mustad circle hook (Mustad #39965). The autobait hook is larger (size (14/0) while the standard survey hook is (13/0)) and the autobait hook has a longer shank and does not have an offset tip. The experiment to test hook types was designed as part of a broader question to answer why earlier studies found differences in catch rates between standard survey hand-bait gear and auto-bait gear. During the 2-day experiment, two sets were made each day for a total of four sets (Appendix Table 5). Each set consisted of 80 skates. The two hook types were interspersed during a set in groupings of 10 skates each (e.g., skates 1-10 auto-bait hook; skates 11-20 hand-bait hook...). This resulted in a total of 40 skates with auto-bait hooks and 40 skates with hand-bait hooks per set. On all sets combined, 1,828 sablefish were caught in 2014; the experiment will be repeated in 2015. Results from both years will be tabulated and used to determine CPUE for each hook type.
Appendix Table 5. -- Set information by station and haul for the 2014 NMFS longline survey 2-day experiment. Positions in decimal degree (DD) format.

<table>
<thead>
<tr>
<th>Set</th>
<th>Date</th>
<th>Start Lat.</th>
<th>Start Long.</th>
<th>End Lat.</th>
<th>End Long.</th>
<th>Start Depth (m)</th>
<th>End Depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>21-Jul</td>
<td>58.98</td>
<td>141.17</td>
<td>58.97</td>
<td>141.27</td>
<td>696</td>
<td>800</td>
</tr>
<tr>
<td>2</td>
<td>21-Jul</td>
<td>58.94</td>
<td>141.08</td>
<td>58.98</td>
<td>141.16</td>
<td>674</td>
<td>820</td>
</tr>
<tr>
<td>3</td>
<td>22-Jul</td>
<td>58.86</td>
<td>141.05</td>
<td>58.92</td>
<td>141.08</td>
<td>700</td>
<td>806</td>
</tr>
<tr>
<td>4</td>
<td>22-Jul</td>
<td>58.77</td>
<td>140.97</td>
<td>58.86</td>
<td>141.04</td>
<td>674</td>
<td>900</td>
</tr>
</tbody>
</table>
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