

Groundfish Habitat Associations from Video Survey with a Submersible off the  
Washington State Coast

Susan Shih-Ein Wang

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Committee Members:

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Glenn R. VanBlaricom

---

David A. Beauchamp

---

Jack V. Tagart

Date: December 14, 2005

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**Abstract**

Groundfish Habitat Associations from Video Survey with a Submersible off the  
Washington State Coast

Susan Shih-Ein Wang

Co-chairs of Supervisory Committee:  
Professor Glenn R. VanBlaricom  
School of Aquatic and Fishery Sciences

Associate Professor David A. Beauchamp  
School of Aquatic and Fishery Sciences

We surveyed nominally untrawlable areas on the Washington state continental shelf to examine benthic habitats and associated groundfish populations. We used our observations to qualitatively and quantitatively examine groundfish habitat associations to better understand the habitat features associated with groundfish density and presence, at both the community and single-species levels, and the effects of scale on these associations.

An increasing number of West Coast groundfish populations have been declared overfished in recent years, stimulating responses in fisheries management and research to address the causes of the declines and to direct population recovery. Groundfish such as lingcod (*Ophiodon elongatus*) and rockfishes (*Sebastes* spp.) exhibit life history characteristics that make them both vulnerable to and slow to recover from overexploitation. Off the Washington State coast, long-term rebuilding plans for these populations may impose significant restrictions on other important fisheries in the area. At the same time, these plans encompass uncertainty as to their success, due to gaps in our biological and ecological knowledge of groundfish populations. In particular, studies on the habitat use and distribution of demersal groundfish populations off the Washington State coast have been limited. This

information is potentially valuable and necessary for the establishment of effective management policies to protect and rebuild declining stocks.

In August 2002, we surveyed groundfish populations and the surrounding benthic habitat within nominally untrawlable areas on the Washington state continental shelf, at depths of 102 to 225 m. We collected video monitoring data using a manned submersible, from which observations of fish species and physical and biological habitat characteristics were recorded. A diversity of fish species were observed throughout the survey, the majority of which were rockfish species of the genus *Sebastes*. Habitat types were characterized by several substrates and invertebrate species.

I examined fish-habitat associations at both the community and single-species levels, and at different spatial scales, including the transect-scale (1000s meters), the within-transect, or patch, scale (10s to 1000s meters), and microscale (1-10s meters). At the community level, I used multivariate analyses (non-metric multidimensional scaling) to examine the relationships between fish communities and habitat features. Fish communities were associated with bottom type. Communities differed between low relief substrates and boulder substrates. Species density differed between bottom types: low relief substrates were characterized by greater densities of flatfish (Pleuronectiformes) and greenstripe rockfish (*Sebastes elongatus*). Fish communities in boulder substrates were characterized by greater densities of unidentified rockfish, rosethorn rockfish (*S. helvomaculatus*), and lingcod.

For single-species associations, I constructed classification and regression trees to determine the habitat associations of yelloweye rockfish (*S. ruberrimus*), canary rockfish (*S. pinniger*), and lingcod, three commercially important and currently overexploited species. All three species were associated with boulder substrates and the density of anemones (Order Actiniaria) and crinoids (*Florometra serratissima*). Yelloweye rockfish were only observed in areas with structure or vertical relief,

either from boulders or invertebrates, and were most often observed in contiguous or stacked boulder areas. Yelloweye rockfish preference for boulder substrates became stronger as the spatial scale decreased, indicating that microscale habitat preferences drove their presence in these habitats. Lingcod and canary rockfish occupied a wider range of habitat types, but also showed preference for boulder substrates.

Association with invertebrate species may be confounded by invertebrate substrate associations.

Analyses of habitat association at different scales showed the importance of scale in the definition of habitat types and analysis. Depending on the scale of analysis, the relationships between species and habitat type differed. The results suggested, given the heterogeneous nature of the habitat, that smaller scales of analysis (within-transect scale) would be most appropriate for this study area to detect and describe habitat associations.

The differences in habitat associations among species raised the question of the accuracy of trawl survey density estimates. Trawl surveys that focus on trawlable (low vertical relief and low complexity) substrates are likely to produce biased estimates due to differences in the density and presence of species by habitat type. Surveys that utilize other methods to address the issue of habitat are needed, along with further studies directly comparing trawlable and untrawlable habitats. Long-term monitoring of these habitats and communities may be useful to provide a baseline for comparison and detection of changes over time. This study provided specific information on the habitat associations of benthic groundfish populations on the Washington continental shelf for application to define essential fish habitat, develop effective survey and management plans, and suggest further studies to examine habitat associations.

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## GLOSSARY

<u>Variable Term</u>	<u>Description</u>
$a_b$	Area swept in meters squared per 10-second interval of bottom type $b$
$a_g$	Area swept in meters squared per patch of habitat $g$
$a_h$	Area swept in meters squared per transect of habitat $h$
$a_p$	Area swept in meters squared per patch $p$
$a_t$	Area swept in meters squared per transect $t$
$c$	Proportion of each response variable category within a group; used to calculate the gini index in CART analysis
$C_b$	Counts of fish or invertebrates per 10-second interval of bottom type $b$
$C_g$	Counts of fish or invertebrates per patch of habitat $g$
$C_h$	Counts of fish or invertebrates per transect of habitat $h$
$C_p$	Counts of fish or invertebrates per patch $p$
$C_t$	Counts of fish or invertebrates per transect $t$
$CV$	Coefficient of variation for mean values
$d_{jk}$	Distance between samples $j$ and $k$ on an MDS plot
$\hat{d}_{jk}$	Distance between samples $j$ and $k$ on an MDS plot predicted by non-parametric regression line
$\hat{D}_b$	Estimated average density in numbers per hectare across all 10-second intervals of bottom type $b$
$\hat{D}_g$	Estimated average density in numbers per hectare across all patches of habitat type $g$
$\hat{D}_h$	Estimated average density in numbers per hectare across transects of habitat type $h$
$D_p$	Density in numbers per hectare across patch $p$
$D_t$	Density in numbers per hectare across transect $t$
$H'$	Shannon index for species diversity
$M$	Denominator for the R statistic in ANOSIM, calculated as $n(n-1)$

$n_g$	Number of patches of habitat type $g$
$n_h$	Number of transects of habitat type $h$
$n_i$	Proportion of bottom type $i$ in the environment, for calculation of Chesson's alpha index
$N$	Total density in numbers per hectare for all fish species in a sample
$p_i$	Proportion of species $i$ in a sample
$P_m$	Proportion of boulder type $m$ per transect
$P_s$	Proportion of substrate $s$ per transect
$q_s$	Score assigned to substrate type $s$
$r_B$	Average rank of similarities for all pairs of samples between two groups in ANOSIM
$r_i$	Proportion of bottom type $i$ used by fish species of interest
$r_W$	Average rank of similarities for all pairs of samples within a group in ANOSIM
$R$	Test statistic for ANOSIM in PRIMER software
$S$	Species richness (number of species) in a sample
$S_{jk}$	Bray-curtis similarity coefficient for samples $j$ and $k$
$v_b$	Number of 10-second intervals of bottom type $b$
$v_f$	Number of 10-second intervals in segment $f$
$v_m$	Number of 10-second intervals of boulder type $m$
$v_t$	Number of 10-second intervals within transect $t$
$V$	Number of subsets into which data are split for RPART cross-validation analysis
$y_{ij}, y_{ik}$	Density of fish per hectare for the $i$ th species in the $j$ th or $k$ th sample
$SD$	Standard deviation for mean values
$\alpha_i$	Chesson's electivity index for bottom type $i$
$\delta_{jk}$	Bray-curtis dissimilarity coefficient for samples $j$ and $k$
$\delta_{jk}(i)$	Contribution of the $i$ th species to the dissimilarity between samples $j$ and $k$
$\hat{\delta}_{jk}(i)$	Average contribution of the $i$ th species to the dissimilarity between two groups
$Stress$	Measure of scatter around non-parametric regression line for MDS analysis

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If you would like access to the transect videos from the August 2002 survey, please contact:

Marine Resources Division  
Marine Fish Science  
600 Capitol Way North  
Olympia, WA 98501-1091 USA

## INTRODUCTION

The focus of this study was to qualitatively and quantitatively describe the specific habitat features with which benthic groundfish populations on the Washington continental shelf are associated. In August 2002, we surveyed areas designated as untrawlable on the continental shelf and collected video data on the benthic habitats and associated fish communities within these areas. We used these data to:

- 1) Characterize the benthic habitat in the surveyed area based on physical substrates and invertebrate communities
- 2) Examine fish-habitat associations for the groundfish communities in these habitats and for selected species of interest in commercial fisheries and management, and
- 3) Evaluate community and single-species habitat associations at different spatial scales to assess the effect and usefulness of different scales on the characterization of fish-habitat associations and their management implications.

In this thesis, I describe the background behind this study, including issues concerning groundfish populations off the West Coast of the United States, previous studies on habitat associations of groundfish populations, and specific concerns and studies conducted in Washington state. I then describe the methods we used to collect and review the video data and statistical tools used to analyze the data. Finally, I report the results and discuss the major conclusions and applications of this work regarding our ecological knowledge and management of these populations and habitats.



## *Background*

West coast groundfish populations have undergone significant declines in recent years. Groundfish populations have been targeted by commercial fisheries off the United States west coast since the mid-1800's and are an economically valuable resource for the coastal states. Groundfish populations include hexagrammids, gadids, flatfishes, sharks and rays, and numerous rockfish species (*Sebastes* spp.), as well as non-commercial species such as sculpins and eelpouts. Commercial and recreational fisheries use various types of fishing gear, such as trawls and long-lines, to harvest groundfish from the continental shelf and slope regions. Potential contributing factors to declines in population levels include excessive catch and species-specific life-history characteristics, such as long life, slow growth, and late reproductive maturation. The Magnuson-Stevens Fishery Conservation and Management Act of 1976 (16 U.S.C. 1801-1882), as amended by the Sustainable Fisheries Act of 1996 (110 Stat. 3559), requires Regional Fishery Management Councils to establish rebuilding plans for overexploited stocks, as well as designate essential fish habitat for all managed species. Those who oversee fisheries management must work to identify and conserve habitat used by managed populations, especially if those habitats are crucial for rebuilding depleted stocks.

Recent studies have been conducted to examine the habitat use and needs of demersal groundfish populations off the coasts of California, Oregon and Alaska (Percy et al., 1989; Hixon et al., 1991; Stein et al., 1992; Krieger, 1993; O'Connell and Carlile, 1993; Krieger and Ito, 1999; Love, et al., 2000; Yoklavich, et al., 2000; Caselle et al., 2002; Else et al., 2002; Johnson et al., 2003). However, our knowledge of fish-habitat associations remains limited. Although general patterns of habitat use are recognized for some species, more rigorous studies are needed, especially for species occupying deeper benthic habitats. Off the Washington coast, declines in groundfish stocks have resulted in significant restrictions on fisheries on

the continental shelf. Management policies such as marine reserves may be effective for population recovery, but their implementation and success depend on currently limited knowledge of species-specific life history characteristics, habitat use and distribution, and community structure (DeMartini, 1993; Nowlis and Roberts, 1998; Soh et al., 2001; Starr et al., 2001).

A diversity of groundfish species occur off the Washington coast, including more than thirty species of rockfish (Love et al., 2002). Several species occupy benthic habitat on the continental shelf and are vulnerable to significant commercial and recreational fishing pressure. In this thesis, I focused on three species currently deemed overfished and whose management significantly impacts other fisheries on the continental shelf: yelloweye rockfish (*Sebastes ruberrimus*), canary rockfish (*S. pinniger*), and lingcod (*Ophiodon elongatus*). These three species are thought to use both trawlable and untrawlable habitats, but our understanding of their habitat preferences is limited. Specific descriptions of habitat use are needed to examine differences in the use of trawlable and untrawlable habitats by yelloweye rockfish, canary rockfish, and lingcod.

Yelloweye rockfish, canary rockfish, and lingcod exhibit life history characteristics that make them vulnerable to overexploitation. Rockfish species are characterized by slow growth and low productivity (Adams, 1980). Canary rockfish are long lived, occupy both pelagic and benthic habitats, and occur in schools or as solitary individuals. Canary rockfish range from Baja California to southeast Alaska and are found at depths of 18 to 360 m. Yelloweye rockfish also exhibit long life (living to at least 118 years), late reproductive maturity, and slow growth, and are often observed as solitary individuals in benthic habitats (Love et al., 2002). This species ranges from Baja California to Prince William Sound, Alaska, and occurs at depths of 18 to 550 m. Yelloweye rockfish are a highly prized catch among fishermen, though historical landings have typically been small (Methot et al., 2002). Lingcod are important in commercial and sport fisheries and have been characterized as

sedentary, living in benthic rocky habitats (Shaw and Hassler, 1989). The distribution of lingcod is from southern California to the Bering Sea. They are found across a wide range of depths, from shallow waters to 2,000 m (Eschmeyer et al., 1983).

Rebuilding plans for yelloweye rockfish, canary rockfish, and lingcod populations include area closures and reduced catch quotas, which impact other fisheries on the shelf. Bycatch may hinder recovery, however, because non-selective fishing methods, such as bottom trawling, continue to exert pressure on already depleted populations, even when targeted fishing has been restricted. Another complication is the limited data available for many groundfish stocks. For example, recent assessments of yelloweye rockfish estimated their levels at 24.1% of unfished spawning biomass, for California, Oregon, and Washington combined (Methot et al., 2002). However, the assessments were conducted with sparse data, and Methot et al. (2002) recommended precautionary management actions along with further research to obtain fishery-independent survey and time series catch data. Rebuilding plans for yelloweye rockfish stocks must account for these uncertainties in assessment, as well as for the life history characteristics and incidental catch rates of this species. More information is needed for yelloweye rockfish and other species in order to define their essential fish habitat and effectively evaluate different management options.

A major challenge in studying demersal groundfish populations is the relative difficulty in making direct observations and the inaccessibility of critical habitats to traditional survey gear. West coast groundfish stocks have been assessed via triennial bottom trawl surveys from 1977 to 2001 and are currently assessed on an annual basis. These surveys use bottom trawl gear to survey coastal populations within statistical areas separated into bathymetric strata. The data collected are used to estimate species density for stock assessments and management. However,

sampling effort is concentrated within trawlable areas, to avoid damaging the bottom trawl gear. Recent work suggested potential biases in these trawl survey density estimates for demersal groundfish species (Jagiello et al., 2003; Zimmermann, 2003). Two groups that differed in density between untrawlable and trawlable sites were rockfish and flatfish. Densities for rockfish species were likely underestimated because of the concentration of survey efforts within trawlable habitats, whereas flatfish densities were likely overestimated. These biases pose a problem because stock assessments rely on accurate density estimates to evaluate and project population trends and guide groundfish management plans. Survey methods that reduce the bias in density estimates need to be developed. In order to develop better survey methods, we need more information about the habitat in these survey areas and the habitat use and preferences of benthic groundfish populations. This information would also help in identifying the specific nature of the biases for each species. In this study, we hoped to address these concerns and contribute information on the habitat and habitat preferences of groundfish populations within the designated untrawlable areas on the Washington continental shelf.

Alternative methods for surveying demersal groundfish populations have been in development in recent years. Studies have compared the use of visual survey techniques (via remotely operated vehicles and manned submersibles) with bottom-trawl and hydroacoustic survey techniques to monitor fish populations off the coasts of California, Oregon, and Alaska (Krieger, 1992; Stein et al., 1992; O'Connell and Carlile, 1993; Adams et al., 1995; Starr et al., 1995; Yoklavich et al., 2000; O'Connell et al., 2003). These comparisons have shown that each technique provides valuable information, but the interpretation of results must consider the inherent biases of each method for different species and habitats. The use of multiple techniques and comparison of the results would help identify the biases of each method and provide a better assessment of groundfish distribution and abundance across habitats than any one method alone.

Visual surveys are a valuable method for direct observation of fish behavior and habitat use, especially in areas inaccessible to traditional survey gear (bottom trawls) and for populations with low acceptable catch quotas. Several habitat-based studies off the California, Oregon, and Alaskan coasts have employed visual survey methods to monitor groundfish populations. Fish assemblages and their associations with habitat features have been examined in unique high relief habitats off the California (Love et al., 1999; Yoklavich et al., 1999) and Oregon coasts (Pearcy et al., 1989; Hixon et al., 1991; Stein et al., 1992; Nasby-Lucas et al., 2002). Specific rockfish assemblages were observed over diverse bottom types, such as high relief boulders and rock ridges, shallow cobble, and deep mud bottoms. For species-specific relationships, Krieger and Ito (1999) used a manned submersible to observe the distribution and abundance of shorttraker (*Sebastes borealis*) and rougheye (*S. aleutianus*) rockfish in Alaska, noting close association with boulder substrates. Yelloweye rockfish were found to be closely associated with high relief boulder habitats off Alaska (O'Connell and Carlile, 1993) and British Columbia (Richards, 1986).

In the Washington area, Matthews (1990) used SCUBA methods to examine movement patterns and habitat associations of copper (*Sebastes caurinus*), quillback (*S. maliger*), and brown (*S. auriculatus*) rockfishes within Puget Sound, noting seasonal movement between high and low relief habitats and expansion in home ranges as habitat complexity and relief decreased. Pacunski and Palsson (2001) have also documented the association of rockfish and other groundfish species with high relief habitat within Puget Sound. In a 1998 survey designed to estimate trawl survey habitat bias, Jagielo et al. (2003) observed differences in fish abundance and community composition between untrawlable and trawlable habitats, supporting patterns observed in previous studies. These studies demonstrated the utility of visual surveys in providing habitat-specific observations on the density and distribution of benthic species and suggested that groundfish species show an affinity

for particular habitats. Detailed information on these habitat associations may be useful for assessment and management of groundfish populations.

In our study, we employed visual survey techniques to investigate and describe the habitat associations of benthic groundfish populations within untrawlable areas on the Washington continental shelf. We examined community habitat associations to determine if fish communities differed across habitat types and then focused on the specific habitat associations of three species, yelloweye rockfish, canary rockfish, and lingcod. We characterized the habitat at different spatial scales to evaluate the effect of scale on the perception of habitat relationships and fish assemblages. The importance of scale has been demonstrated in studies of river and tropical systems, where differences in species associations among different spatial scales led to different conclusions and management implications (Syms, 1995; La Mesa et al., 2002; Mattingly and Galat, 2002). The inclusion of scale in this study provided another layer of description for fish-habitat associations and may be useful for the design of future surveys and research studies.

In this thesis, I reported our findings as follows:

- 1) I described the physical and biological habitat within nominally untrawlable areas on the Washington continental shelf observed during our 2002 survey.
- 2) I assessed fish-habitat associations by relating characteristics of the habitat to fish density at the community and single species levels. Habitat associations for fish communities were evaluated using multivariate techniques, namely non-metric multidimensional scaling. Single species habitat associations were evaluated using classification and regression trees, a

technique that has recently been applied in ecology to assess the relationships between habitat variables and single species (Rejwan et al., 1999; D'eath and Fabricius, 2000). These statistical methods were described in detail in the methods section.

3) Finally, I characterized these fish-habitat associations at different spatial scales to evaluate the importance of scale as a factor to consider in fish habitat studies. I compared our findings with previous studies conducted in the waters off the west coast and discussed applications of this work to management and recommendations for further studies.

## MATERIALS AND METHODS

### *Survey area and data collection*

The survey site (Fig. 1) consisted of the nominally untrawlable benthic habitat within the shallow (55-183 m) trawl survey stratum of the US-Vancouver International North Pacific Fisheries Commission (INPFC) statistical area, located on the northern Washington state continental shelf (Zimmermann, 2003). Using the National Marine Fisheries Service (NMFS) triennial bottom trawl survey data from 1977-1998, Zimmermann (2003) compiled a geographic information system (GIS) database of abandoned and good trawls to demarcate polygons of untrawlable habitat within the NMFS trawl survey area. The presumptive untrawlable habitat represented areas within which attempted hauls were unsuccessful, or obstructions were encountered along the trawl path. All samples for our survey were taken from within these designated untrawlable areas.

The Washington Department of Fish and Wildlife (WDFW) conducted the survey cruise on board the *R/V Velero IV* from August 15-31, 2002. The nominally untrawlable area was defined by a set of irregular polygons. We (referring to WDFW and myself) divided the survey area into a grid consisting of 800 m x 800 m cells. Each cell represented one potential sample station within which a visual strip transect would be run. The shape of each polygon was approximated by the inclusion of those 800 m<sup>2</sup> cells that were at least 50% contained by the polygon. For the inscribed cells, we applied stratified random sampling to select 60 primary stations. We divided the survey area into four quadrants (NW, NE, SW, SE), among which effort was rotated to ensure that samples were taken throughout all quadrants and untrawlable areas. We selected stations to be sampled each day to minimize the amount of time spent traveling between sites. Within each station, we ran a visual strip transect starting at the southwest corner of the station (designated by latitude



and longitude coordinates), going north 800 m, east 200 m, south 800 m, east 200 m, and again north 800 m. The transect shape allowed us to survey a large area within each station. Each transect was video-taped. In practice, the actual length of each transect was determined by the speed of the submersible and the length of the videotape (mean length of videotapes = 61 minutes). Typically, we were able to cover at least the first two 800 m legs of the predetermined path during one transect (Jagiello et al., in press).

We used the *Delta* submersible, a 4.7 m long by 1.1 m wide manned submersible that seated one pilot and one observer (Delta Oceanographics, Ventura, CA). Members of the *Delta* crew served as pilots for this survey. To collect video data, we used the 3-beam quantitative measurement system (QMS) developed by Harbor Branch Oceanographic Institute, Ft. Pierce, Florida, which was equipped for use on the *Delta*. The 3-beam QMS consisted of three lasers, a video camera, and a vertical reference unit (VRU). The VRU measured the roll and pitch of the submersible. The three lasers provided a scale for estimating transect-width and the size of objects viewed on the recorded video, using the 3-beam computer software (Kocak et al., submitted). We mounted the 3-beam QMS to face forward on the *Delta*, and linked the system to a video recorder (Sony Digital 8, Model GV-D800), laptop computer, and time code generator (Horita PG-2100) within the submersible, so that the observer could control the recording from within the submersible. We recorded each transect onto Hi-8 mm audio/video tapes (the “transect videos”), along with time code data consisting of the date, time, video frame number, and VRU roll and pitch measurements. The observer inside the submersible also used a handheld digital video camera to collect close-up images of invertebrate and fish species for later use in species identification.

Aboard the ship, the *Delta* crew tracked the location of the submersible in relation to the research vessel using the submersible navigational system (an acoustic Trak-

Point II system and WinFrog software from Thales GeoSolutions (Pacific), San Diego, CA). Research crew members recorded waypoints as the submersible traveled along the transect line. The *Delta* pilots tried to maintain the submersible at a constant speed of 1-2 knots and at a height of one meter above the bottom. The surface crew communicated with the submersible via hydrophone to direct the submersible's movements.

### *Video analysis*

Video analysis included what was termed the “video-census” method. We reviewed each transect video in its entirety in continuous 10-second intervals and recorded observations for each interval. We recorded observations of fish, invertebrates, and habitat only if they were swept by the center line designated by the three lasers of the 3-beam QMS. All the videotapes were viewed using the Sony Digital 8 video recorder used to record the images. Fish observations were summarized by counts and by density in numbers per hectare for each species. Habitat was characterized by the physical substrate and invertebrate communities.

WDFW completed the estimation of fish density (Jagiello et al., in press), and counted all fish species, excluding small, unidentifiable fish (such as ronquils and gobies), using the video-census method (J. Tagart, personal communication). Rockfish and flatfish that were not identifiable to species using the videos were assigned to two general groups: unidentified rockfish and unidentified flatfish. Small juvenile rockfish less than 20 cm in total length represented the majority of the unidentified rockfish group, and included greenstripe (*Sebastes elongatus*), redstripe (*S. proriger*), rosethorn (*S. helvomaculatus*), sharpchin (*S. zacentrus*), and stripetail (*S. saxicola*). Some adult rockfish were classified as unidentified, including greenstripe, greenspotted (*S. chlorostictus*), redstripe, stripetail, rosethorn, widow (*S.*

*entomelas*), and Pacific Ocean Perch (*S. alutus*). Young of the year or one- to two-year old yelloweye rockfish may also have been classified as unidentified rockfish. Flatfish were difficult to identify to species using the videos due to their size, orientation, and cryptic coloring. Unidentified flatfish included a range of sizes from small individuals less than 15cm in total length to adults greater than 50 cm in length. Two species included in the unidentified flatfish group were slender sole (*Lyopsetta exilis*) and sanddabs (*Citharichthys* spp.). Flatfish species that we could reliably identify were dover sole (*Microstomus pacificus*), petrale sole (*Eopsetta jordani*), arrowtooth flounder (*Atheresthes stomias*), and Pacific halibut (*Hippoglossus stenolepis*), although arrowtooth flounder were sometimes difficult to distinguish from Pacific halibut. Among these species, some individuals may have been classified as unidentified flatfish.

To determine the transect area, we analyzed the Trak-Point and WinFrog data to estimate the average submersible speed. We used GIS to calculate the distance traveled between way-points and the time recorder to determine the duration of travel between way-points. We calculated the average speed during the interval using these data. We used a distance-weighted average to compute the mean submersible speed over each transect. The total length of each transect was calculated by multiplying the duration of the survey transect by the mean submersible speed for that transect. We estimated the average transect width from systematic sampling of frame grabs using the 3-Beam software. We took frame grabs at 14-second intervals, which resulted in about 250 frame grabs per transect video. We decided that 250 frame grabs was a reasonable sample size for analysis by comparing the estimated mean transect width for two transects in which 250, 500, and 1000 frame grabs were taken. We chose the smallest number of frame grabs (250) needed to generate a stable estimate of the mean width and variance of the mean width. We calculated the total area swept per transect using the values for

average transect width and distance traveled. We used the calculated area to estimate fish and invertebrate density (Jagiello et al., in press).

Physical habitat classification:

I classified the habitat within the surveyed areas by two features: the bottom type (physical habitat) and invertebrate communities that provided structure and vertical relief (biological habitat). I used the habitat classification method developed by Hixon et al. (1991) and Stein et al. (1992) to classify different bottom types. Each bottom type was represented by a two-letter code. The first letter represented the primary substrate type (at least 50% of the viewed area) and the second letter represented the secondary substrate type (at least 20% of the viewed area). Substrate types included sand (0.06-2 mm), pebble (2-64 mm), cobble (65-256 mm), boulder (0.25-3 m), and rock ridge (hard bottoms of high vertical relief). I included a modifier to specify the configuration of boulder substrates (1= scattered; 2= contiguous; 3= stacked, according to definitions by Greene et al. (1999)). For example, the code CB1 stood for a bottom type consisting primarily of cobble with scattered boulders. The modifier provided an index of the amount of interstitial space created by boulders.

Using the video-census method, I estimated the proportion of each substrate type for each 10-second interval. For example, an interval consisting of 2 seconds sand and 8 seconds stacked boulder would be 20% sand and 80% stacked boulder, with an overall bottom type of stacked boulder with sand (BS3). I also noted the presence of boulders within each interval, regardless of whether or not they covered at least 20% of the interval. The boulder presence category included five levels: none = no boulders; isolated = single boulders within an interval; scattered = more than one boulder in an interval; contiguous = boulders in a single layer, almost touching on all surfaces; and stacked = boulders touching on all surfaces and stacked in more than

one layer. I noted other features for each interval, including: relief (3 levels), complexity (3 levels), crevices (3 levels), slope, and transitions between bottom types (which I called edges) (Greene et al., 1999; Table 1).

I noted segments in which visibility was poor, or the bottom was not visible (due to the submersible's height off the bottom), and characterized these segments based on what was visible, or on the bottom type before and afterwards. Because the submersible was more likely to be high off the bottom when over high relief or boulder areas, excluding segments of poor or low visibility could have biased the data against these bottom types. Therefore, I included these segments in my analyses. In addition, I recorded the start/end times of what were termed "patches," defined as continuous segments of uniform bottom type lasting at least 10 seconds (Hixon et al., 1991; Stein et al., 1992; Amend et al., 2001) as a secondary method for characterizing habitat. The bottom type categories for patches represented the dominant substrates or boulder configuration within the patch. Bottom types for patches included: sand-mud (SM), sand-pebble (SP), pebble-sand (PS), mixed sand/pebble/cobble (SPC), scattered boulder on mixed sand, pebble, and cobble (B1), and boulder patches consisting of scattered to stacked boulder (B).

#### Biological habitat classification:

I identified invertebrate taxa to the lowest taxonomic level possible using the transect and handheld videos and frame grabs. I recorded the frequency of occurrence across all transects, based on presence/absence, for all macroinvertebrate species or multi-species groups that we could reliably identify from the videos. Among these species/groups, I used the video-census method to count and estimate density for invertebrates that provided structure and vertical relief. Invertebrate species/groups that fit this criterion included sponges, crinoids, anemones, and basket stars.

Species that we observed but could not reliably identify and count due to their small size included hermit crabs, nudibranchs, and gorgonian corals.

### *Analytical methods*

#### Fish and invertebrate distribution

I described the distribution of fish and invertebrates across bottom types by calculating the average density of fish and invertebrates by bottom type. I used the 10-second intervals as the sample units, with the assumption that similar categories of bottom type were the same across all transects (for example, boulder-cobble on transect 1 was the same as boulder-cobble on transect 2). I calculated the average density by bottom type as

$$\hat{D}_b = \frac{1}{v_b} \sum_{i=1}^v \frac{C_{ib}}{a_{ib}}$$

Where  $\hat{D}_b$  = the average density within bottom type  $b$ ,  $C_{ib}$  = the fish or invertebrate count per interval of bottom type  $b$ ,  $a_{ib}$  = the area swept per interval of bottom type  $b$ , and  $v_b$  = the number of intervals of bottom type  $b$  for  $n = 1$  to  $v$  intervals across all transects. The units of density were transformed from numbers per meter to numbers per hectare. I calculated the standard deviation (SD) and coefficient of variation (CV) for  $\hat{D}_b$  to examine the variability in fish and invertebrate density by bottom type.

The CV was calculated as

$$CV = \frac{SD(\hat{D}_b)}{\hat{D}_b}$$

### Fish habitat associations: Sample units

I examined fish-habitat associations at two levels, community and single species, and at two spatial scales, the transect-scale and the within-transect, or patch, scale. The transect-scale analyses were based on 50 transects (mean transect length = 2.18 km, range = 1.1 to 3 km; CV = 0.17). Habitat factors associated with each transect included: depth (m), number of patches, invertebrate density (target organisms per hectare), dominant bottom type, and dominant boulder type. The dominant bottom type described the dominant substrates across each transect. I defined the dominant bottom type for each transect using the 10-second interval data. For each 10-second interval I gave a score ( $q$ ) of  $q = 5$  for the primary substrate ( $\geq 50\%$  of the interval) and a score of  $q = 2$  for the secondary substrate ( $\geq 20\%$  of the interval) as an estimate of the proportion of that substrate type within each 10-second interval. I determined the primary and secondary substrate for a transect by calculating

$$P_s = \frac{1}{7v_t} \sum_{i=1}^{v_t} q_{is}$$

Where  $P_s$  = the proportion of the transect covered by substrate  $s$ ,  $\sum q_{is}$  = the score assigned to substrate  $s$ , summed across all  $n = 1$  to  $v_t$  intervals within transect  $t$ , and  $v_t$  = the number of intervals within transect  $t$ . Bottom type was again represented by a two letter code, with the first letter representing the primary substrate ( $\geq 50\%$  of the transect, or the substrate type representing the greatest proportion of the transect) and the second letter representing the secondary substrate ( $\geq 20\%$  of the transect).

I also classified the dominant boulder type per transect using the 10-second interval data. The proportion of each boulder type within a transect was calculated by

$$P_m = \frac{v_m}{v_t}$$

Where  $P_m$  = the proportion of boulder type  $m$  per transect,  $v_t$  = the total number of intervals within transect  $t$ , and  $v_m$  = the number of intervals within transect  $t$  classified as boulder type  $m$ , with five levels of  $m$ : none, isolated, scattered, contiguous, and stacked. I defined the dominant boulder type as the boulder type with  $P_m \geq 0.50$ . If all values of  $P_m$  were less than 0.5, I chose the boulder type with the greatest  $P_m$  value, or, if  $\sum P_m \geq 0.50$  for  $m$  = scattered, contiguous, and stacked, I classified the dominant boulder type as “mixed.”

Fish and invertebrate densities per transect were calculated as:

$$D_t = \frac{C_t}{a_t}$$

Where  $D_t$  = the fish or invertebrate density per transect,  $C_t$  = the fish or invertebrate count per transect, and  $a_t$  = the area swept per transect. The average density across transects within a habitat group was calculated as:

$$\hat{D}_h = \frac{1}{n_h} \sum_{i=1}^{n_h} \frac{C_{ih}}{a_{ih}}$$

Where  $\hat{D}_h$  = the estimated average fish or invertebrate density in transects of habitat  $h$ ,  $C_h$  = the fish or invertebrate count per transect of habitat  $h$ ,  $a_h$  = the area swept per transect of habitat  $h$ , and  $n_h$  = the number of transects classified as habitat  $h$ . Density estimates were transformed from units of number per meter to units of number per hectare. I calculated the standard deviation (SD) and coefficient of variation (CV) to evaluate the variability of fish and invertebrate density across transects within a habitat type group.

For invertebrate species, I created categories to represent invertebrate presence per transect based on the abundance of each invertebrate group. I recorded abundance per transect for 12 species/groups of macroinvertebrates: orange sea pens



(*Ptilosarcus gurneyi*), white sea pens (*Virgularia* sp.), sea whips (*Balticina septentrionalis*), sea anemones (including several species of the Order Actiniaria), basket stars (*Gorgonocephalus eucnemis*), crinoids (*Florometra serratissima*), and groups of demosponges and calcareous sponges defined by shape: finger sponge, cup sponge, basket sponge, sheet sponge, cloud sponge, and vase sponge. Categories for orange sea pens, sea whips, anemones, basket stars, cup sponge, basket sponge, and sheet sponge included two levels: present or absent. White sea pens, crinoids, finger sponge, cloud sponge, and vase sponge occurred more frequently and in greater abundance. Categories for these taxa included four levels: none (absent), few (1-9 individuals per transect), some (10-99 individuals per transect), and many ( $\geq 100$  individuals per transect).

For within-transect scale analyses, sample units were patches ( $n = 983$ ). Patches were defined as continuous segments of unchanging predominant bottom type and therefore included patches of variable length (mean patch length = 111 m, range = 4 m to 2.7 km, CV = 2.54). Habitat factors associated with each patch included patch area ( $m^2$ ), bottom type, presence of rocky ridge terrain, and invertebrate species density and categories. Fish and invertebrate densities (number per hectare) were calculated as

$$D_p = \frac{C_p}{a_p}$$

Where  $D_p$  = the density of fish or invertebrates per patch,  $C_p$  = the fish or invertebrate count per patch, and  $a_p$  = the area swept per patch. To determine the average density by habitat type, I calculated

$$\hat{D}_g = \frac{1}{n_g} \sum_{i=1}^{n_g} \frac{C_{ig}}{a_{ig}}$$

Where  $\hat{D}_g$  = the estimated average density per patch of habitat  $g$  across all transects,  $C_g$  = the fish or invertebrate count per patch of habitat  $g$ ,  $a_g$  = the area swept per

patch of habitat  $g$ , and  $n_g$  = the number of patches of habitat  $g$  across all transects.

The standard deviation (SD) and coefficient of variation (CV) of  $\hat{D}_g$  were calculated as measures of the variability in fish and invertebrate density across patches. I again defined categories for invertebrate presence per patch. Categories for all twelve species/groups of invertebrates included two levels: present or absent.

For community analyses, the sample units were adjusted so that each sample represented an equal area swept. The amount of area swept could affect how fish communities were characterized, because as area increased, the number of species observed was also likely to increase. Samples of equal area were required to make meaningful comparisons of fish communities among samples. For transect-scale analyses, the smallest transect (area = 2811 m<sup>2</sup>) determined the size of the samples. I defined the samples for transect-scale analyses as the first 2811 m<sup>2</sup> (or an area as close to this value as possible) of each transect. The actual areas for each sample ranged from 2803.4 to 2819.5 m<sup>2</sup>. The habitat factors (physical bottom type and invertebrate community features) and fish densities associated with each of these samples were determined as described above for the transect-scale analyses. For patch-scale analyses, I chose the patch area for the sample units by determining the patch area at which the CV of fish density began to stabilize. I chose four fish species that occurred commonly within patches (greenstripe rockfish, rosethorn rockfish, unidentified flatfish, and unidentified rockfish) and plotted the CV of the average fish density for each species against the patch area. The CV values for each species began to stabilize at a patch size of 100 to 200 m<sup>2</sup>. Within this range, patches of area ranging from 100 to 120 m<sup>2</sup> contained sufficient information for community analyses and resulted in a large sample size ( $n = 57$ ) within a small range of area swept. Patches that were 100 to 120 m<sup>2</sup> in area were selected as the samples for the patch-scale community analyses. However, it is important to note that the resulting samples were only a small portion of the total of 983 patches and only represented 28

out of 50 transects. Selecting patches that were 100 to 120 m<sup>2</sup> in area as the samples potentially introduced bias into the analysis, because the fish communities within these patches may not have been representative of the communities within the whole survey area.

#### Fish-habitat associations: Community-level associations

Recent studies have applied multivariate statistical techniques to explore the relationships between fish communities and environmental factors (Hixon et al., 1991; Stein et al., 1992; Syms, 1995; Amend et al., 2001; Gibbons et al., 2002; La Mesa et al., 2002; Tsou and Matheson, 2002; Abookire and Piatt, 2005). I examined community-level associations using multivariate analysis procedures in the PRIMER software (Plymouth Routines in Multivariate Ecological Research; Clark and Warwick, 2001). The multivariate analyses in this program were based on an index of similarity that measured the similarity in the fish communities between pairs of samples. I used the Bray-Curtis similarity coefficient (Bray and Curtis, 1957). The Bray-Curtis similarity coefficient was calculated as

$$S_{jk} = 100 \left( 1 - \frac{\sum_{i=1}^p |y_{ij} - y_{ik}|}{\sum_{i=1}^p (y_{ij} + y_{ik})} \right)$$

where  $S_{jk}$  = the similarity in fish communities between samples  $j$  and  $k$ ,  $y_{ij}$  = the density (number of fish per hectare) for the  $i$ th species in the  $j$ th sample, and  $y_{ik}$  = the density (number of fish per hectare) for the  $i$ th species in the  $k$ th sample. The similarity coefficient calculates the absolute value of the sum of the differences divided by the sum of the totals for all species in samples  $j$  and  $k$ . The Bray-Curtis coefficient possesses several properties that are useful for ecological data. First, the coefficient,  $S_{jk}$ , takes the value of zero when two samples do not share any species in common ( $|y_{ij} - y_{ik}| = y_{ij} + y_{ik}$ ).  $S_{jk}$  also equals 100 when two samples are identical,

because  $|y_{ij} - y_{ik}| = 0$ . Second, the absence of a species in two samples does not affect the value of  $S_{jk}$ , so that joint absences do not increase the similarity between two samples. Third, scale changes do not affect the value of  $S_{jk}$ . I could express density in units of numbers per meter or numbers per hectare without changing the value of  $S_{jk}$ , because the multiplier would be applied to both the numerator and the denominator of the equation. The inclusion of an additional sample also does not affect the similarity between two samples. Finally, the Bray-Curtis similarity coefficient accounts for differences in the total density between two samples. If two samples have the same relative density for all species but differ in total density, the similarity between the two samples will be less than 100.

I fourth-root transformed the fish density data prior to calculating Bray-Curtis similarities to reduce the dominance of highly abundant species, such as unidentified rockfish, and allow species of intermediate and low density to contribute to the similarity. I calculated the similarity coefficient for each pair of samples to produce a triangular matrix of similarities. The multivariate analyses described below were based on the similarity matrix rather than the fish density data.

I performed non-metric multidimensional scaling (MDS) on both transect-scale and patch-scale data to examine the fish community structure. MDS is an ordination method that produces a map, or plot, that visually displays the relationships between samples and allows identification of which habitat factors are most likely related to that structure in the data. MDS is flexible in that it does not make any assumptions about the distribution of the data or the form of the relationship between samples. Instead, it uses the ranks of the similarities to construct a map, or plot, of the samples in low dimensions (two-dimensional or three-dimensional). The similarity values were ranked from 1 to  $n-1$ , where rank 1 was assigned to the greatest similarity value and rank  $n-1$  was assigned to the lowest similarity value. On the MDS plot, each point represented one sample, which was defined by the fish community in that

sample. The distance between two points on the MDS plot represented the similarity in the fish communities between the two samples. Samples placed closer together on the plot shared more similar fish communities than samples further apart on the plot. Samples with similar fish communities grouped together on the MDS plot. Any structure or groupings among the samples were determined by the fish community data, which in this study were the fish species density data per sample.

The MDS plots were constructed by first defining the number of dimensions for the plots (PRIMER produces two-dimensional and three-dimensional plots). A starting plot of the samples was created by random placement of points on the plot. The actual distance between two samples on the MDS plot was plotted against the similarity (or dissimilarity) values between those two samples, to produce what is called a Shepard diagram (Fig.2). The MDS analysis performed non-parametric regression to find the best-fitting, increasing line for the points on the Shepard diagram. The scatter of points around the line represented how well the distance between samples on the MDS plot match the rank of similarities between samples. The scatter was measured by a value called stress. Stress was calculated as

$$Stress = \sqrt{\sum_j \sum_k (d_{jk} - \hat{d}_{jk})^2 / \sum_j \sum_k d_{jk}^2}$$

where  $d_{jk}$  = the distance between samples  $j$  and  $k$  on the MDS plot and  $\hat{d}_{jk}$  = the predicted distance between samples  $j$  and  $k$  by the regression line. The MDS analysis then ran a series of iterations to minimize the stress value. Points were moved on the MDS plot to decrease stress. Each time points were moved around, a new regression line was calculated. The movement of points and recalculation of a new regression line was repeated iteratively until the stress value reached a minimum. The problem of local minima was addressed by repeating the MDS analysis 50 times, each time starting with a different random plot of points, and examining the consistency of the lowest stress value among the repeated runs of the analysis.

The stress value provided a measure to assess how well the MDS plot represented the fish community structure among samples. The relationships between samples are multidimensional, but the MDS analysis displays these relationships in 2-dimensional or 3-dimensional plots to allow visual assessment of these relationships. The high-dimensional relationships will be distorted to some extent when represented in the low-dimensional plots. The degree of that distortion was measured by the stress value. Stress  $<0.1$  indicated that the rank of similarities between samples was well-preserved by the distances between points on the MDS plot. In other words, the low-dimensional plot was a good representation of the community structure among samples. Stress greater than 0.1, but less than 0.2, indicated that the MDS plot was a good representation of the overall structure in the data, but not of the details in that structure. Stress greater than 0.2 indicated that the MDS plot was not useful for examining the structure in the data, either because there was no structure in the data, or the structure was not well-represented in low dimensions.

If the stress value was less than 0.2, then the MDS plot could be used to explore the relationship between the fish community structure and environmental factors. Each sample was associated with a set of categorical factors (i.e., bottom type, boulder type, and invertebrate category). Symbols and labels representing these factors were overlaid on the points on the MDS plots. The resulting plots were then visually inspected to determine if the grouping among samples based on the fish community data corresponded with any of the environmental factors. This allowed the identification of factors with which fish communities were most likely associated (Field et al., 1982; Minchin, 1987; Clarke and Warwick, 2001).

To test the relationships between fish communities and environmental factors identified in the MDS analysis, I performed one-way analysis of similarities (ANOSIM), also available in PRIMER. ANOSIM is a procedure to statistically test

*a priori* groupings defined by habitat factors. In other words, ANOSIM tests whether the factors identified in MDS analysis are indeed good explanatory factors for the grouping of samples based on their similarity in fish communities. First, the factor to be tested must be identified. For example, if the factor were bottom type, the null hypothesis would be that the fish communities associated with each bottom type do not differ significantly from one another. ANOSIM uses the rank of similarities in the similarity matrix to calculate the test statistic,  $R$ ,

$$R = \frac{r_B - r_W}{M/2}$$

where  $r_B$  = the average rank of similarities for all pairs of samples between different bottom types,  $r_W$  = the average rank of similarities for all pairs of samples within each bottom type group, and  $M = n(n-1)$ , where  $n$  = the total number of samples. By using the rank of similarities, ANOSIM can detect whether fish communities associated with different bottom types are significantly different, even if the relationships were not well-represented in low dimensions on MDS plots.

The value of  $R$  ranged from -1 to 1.  $R$  values indicated whether fish communities among bottom types were distinct ( $R > 0.75$ ), overlapping but different ( $R > 0.5$ ), or almost indistinguishable ( $R < 0.25$ ). An  $R$  value of zero meant that fish communities within samples of different bottom types were just as similar to one another as the fish communities within samples of the same bottom type.  $R$  values less than 0 indicated that fish communities within samples of different bottom types were more similar to one another than the fish communities within samples of the same bottom type.

The significance of the  $R$  value was determined by comparing the observed  $R$  value to the distribution of  $R$  values. The distribution of  $R$  values was constructed using permutations, where the factor levels (bottom types) were randomly assigned to the samples and the  $R$  value recalculated. This procedure was repeated 999 times to

construct the distribution of R under the null hypothesis of no difference in fish communities between bottom types. The null hypothesis was rejected if the observed R value fell outside of the distribution of R. A significant R value indicated that differences in fish communities existed between bottom types. To determine which bottom types differed in their fish communities, pairwise tests were also performed. The R statistic was calculated for each pair of factor levels. For pairwise tests, the R value was more informative than the significance level because the significance level was highly related to sample size. If two groups were distinct, but had a low sample size, the R value may be high but not significant. In this case, the interpretive value of R would be given priority over the significance level.

After identifying the factors related to differences in fish communities, I examined which species contributed most to these differences using similarity percentages (SIMPER) procedures in PRIMER (Clark and Warwick, 2001). The samples were first grouped by the habitat factor (for example, bottom type). The total dissimilarity between each pair of groups was calculated with the Bray-Curtis dissimilarity coefficient:

$$\delta_{jk} = 1 - S_{jk}$$

where  $\delta_{jk}$  = the dissimilarity in fish community between samples  $j$  and  $k$ , and  $S_{jk}$  = the similarity in fish community between samples  $j$  and  $k$ . The dissimilarity value was calculated for every pair of samples between two groups. For example, to compare the fish communities between samples of bottom type sand-mud and samples of bottom type scattered boulder, each sample in the sand-mud group would be paired with each sample in the scattered boulder group and the dissimilarity value calculated for each pair of samples. The dissimilarity values were then averaged to determine the total dissimilarity between the fish communities in samples characterized by sand-mud versus the fish communities in samples characterized by scattered boulder. The contribution of each species  $i$  to the total dissimilarity between two groups was calculated as



$$\delta_{jk}(i) = 100 \frac{|y_{ij} - y_{ik}|}{\sum_{i=1}^p (y_{ij} + y_{ik})}$$

where  $\delta_{jk}(i)$  = the contribution of the  $i$ th species to the dissimilarity between samples  $j$  and  $k$ ,  $y_{ij}$  = the density (number of fish per hectare) for the  $i$ th species in the  $j$ th sample, and  $y_{ik}$  = the density (number of fish per hectare) for the  $i$ th species in the  $k$ th sample. The average contribution ( $\hat{\delta}_{jk}(i)$ ) of species  $i$  to the dissimilarity between the two groups was calculated by averaging the value of  $\delta_{jk}(i)$  over all pairs of samples between the two groups (in this example, sand-mud versus scattered boulder bottom types). The percent contribution was calculated as the ratio  $\hat{\delta}_{jk}(i) / \delta_{jk}$ .

The standard deviation of the species contribution,  $SD(\hat{\delta}_{jk}(i))$ , measured how consistently species  $i$  contributed to differences between the two groups. Good discriminating species were species that contributed consistently and considerably to the dissimilarity between groups, and were identified by large values of the ratio  $\hat{\delta}_{jk}(i) / SD(\hat{\delta}_{jk}(i))$ .

I also examined whether the fish communities associated with the factors identified in MDS and ANOSIM differed in total fish density, species richness, or diversity. I grouped samples based on the habitat factor identified in MDS and ANOSIM and calculated the species richness (S), total fish density (N), and species diversity for each group. I tested the null hypothesis that the total number of species, fish density, and species diversity did not differ among the levels of the identified habitat factor. Species richness (S) was simply the number of species in a sample. Total fish density (N) was the density (numbers per hectare) of all fish species in a sample. I calculated the Shannon index as a measure of species diversity. The Shannon index was calculated as:

$$H' = -\sum p_i \times \log(p_i)$$

where  $H'$  = the Shannon index for species diversity and  $p_i$  = the proportion of species  $i$  in the sample. Because  $p_i$  would be less than or equal to 1, the value of  $\log(p_i)$  would be zero or negative. The negative sign is included in the equation to make the value of  $H'$  positive. If a sample consisted of only one species,  $p_i$  equaled 1 and  $H'$  equaled zero (zero diversity). The Shannon index took into account both the number of species and the abundance of each species. The maximum value for the Shannon index was  $\log(X)$ , where  $X$  was the number of species, and would occur when all species were balanced, or present at equal numbers per sample (Shaw, 2003). I tested the normality of the resulting values using the Kolmogorov-Smirnov test. For the transect-scale samples, the distribution of species richness, total density, and the Shannon index values were not significantly different from the normal distribution. For patch-scale samples, I fourth-root transformed the total density values to make the data conform to the normal distribution.

I performed Levene's test for homogeneity of variance among groups, one-way analysis of variance (ANOVA) tests for each measure to compare average values between groups, and Tukey's post-hoc tests to determine which groups differed if the ANOVA tests indicated significant differences. For the patch-scale, the Shannon index values showed heterogeneity of variance. However, transformations worsened the heterogeneity. Rather than transform the data, I did not perform post-hoc tests to examine between-group differences, but simply compared the mean values for each group to determine whether they were different.

#### Fish-Habitat Associations: Single-species analyses

I examined species-specific habitat associations for yelloweye rockfish, canary rockfish, and lingcod using classification and regression trees. Classification and regression trees are an alternative to linear models to explore and describe the relationships between univariate response variables and continuous or categorical predictor variables. Classification and regression trees allow analysis of data with

non-normal distributions, nonlinear relationships, and higher order interactions, and present the results in trees formed by binary splits (Rejwan et al., 1999; D'earth and Fabricius, 2000).

For transect-scale analyses, I constructed both classification trees and regression trees, using transects as the sample units. The response variable for classification trees was the presence or absence of each species on a transect. For regression trees, the response variable was the density (number per hectare) for each species. Although classification and regression trees do not require constant variance, non-constant variance may affect the results by giving more weight to data with greater variance. I transformed the fish density data to satisfy constant variance across samples (yelloweye rockfish: square root transformed; canary rockfish: fourth-root transformed; lingcod: square root transformed). The predictor variables for both types of trees were the depth (m), bottom type, boulder type, and invertebrate density by species (number per hectare) across each transect. For patch-scale analyses, I constructed classification trees using patches as the sample units. I chose classification trees rather than regression trees because the fish density data were dominated by zero values and behaved like presence/absence data. The response variable was the presence or absence of each species in a patch. The predictor variables were the patch area ( $m^2$ ), bottom type, total fish density (number per hectare) excluding the species of interest, and invertebrate density by species (number per hectare) within each patch.

The basic procedure for building trees was to repeatedly split the data into two mutually exclusive groups so that the two resulting groups were as homogeneous as possible in terms of the response variable. Each split was characterized by a splitting rule based on one predictor variable. For categorical predictors, the number of possible splits depended on the number of levels, with  $2^{k-1} - 1$  possible splits given  $k$  levels. Splits based on continuous variables were defined by some chosen value of

the predictor variable, so that one group had values less than the chosen value and the other had values greater than the chosen value. The criteria to determine the best split was based on a measure of impurity, or departure from homogeneity, within the resulting groups. The definition of impurity differed between classification and regression trees, but in both methods, the best split was chosen to minimize the impurity. For regression trees, I chose sums of squares for group means as the measure of impurity. For classification trees, I used the Gini index as the measure of impurity, which was calculated as

$$1 - \sum c^2$$

where  $c$  = the proportion of each response variable level (here, presence or absence) within a group (Therneau and Atkinson, 1997; Rejwan et al., 1999; Atkinson and Therneau, 2000; D'eath and Fabricius, 2000).

Trees were displayed with the root node at the top, representing the full data set. The root node was then split into two branches that terminated in leaves (the resulting groups). Each leaf node could be further split into two branches and leaves, by assessing all possible splits across all predictor variables, even if a variable had already been used in a previous split. For regression trees, the average density was displayed at each node, as well as the splitting rule and the number of samples at that node. The trees were characterized by the percentage of the total sums of squares explained. For classification trees, each node was labeled with the dominant level of the response variable (present/absent) and the number of samples in each level (number of samples where species was absent / number of samples where species was present). Classification trees were characterized by the misclassification rate, or the number of samples misclassified by the tree. For each split, alternative splitting rules based on other predictor variables were recorded to show other predictor variables that might perform just as well in splitting the data into homogeneous

groups. I examined the alternative splits to better understand the relationships between the predictor variables and the response variable.

Trees were grown until no more splits were possible or the improvement in the proportion of sums of squared explained or misclassification rate no longer exceeded a predetermined value (usually 0.01). Trees may grow too large, overfitting the data, and need to be pruned. Splits are the most informative near the root node and become less informative as you go down the tree. The best tree size for each model was selected using cross-validation (Therneau and Atkinson, 1997; Atkinson and Therneau, 2000) and performed in SPLUS using a program called RPART (Recursive PARTitioning). In cross-validation, the data were split into  $V$  subsets of equal size. I chose  $V = 10$  for both transect-scale and patch-scale analyses.

Dropping out one subset of data, a tree of a certain size was built from the remaining data and used to predict the responses for the subset that was dropped out. The error in predicted values was calculated. For a certain tree size, this procedure was repeated by dropping out each subset of data in turn, and summing the error rate for all subsets to determine the error associated with that tree size. The whole process was repeated for each tree size to generate a list of tree sizes and the predicted error for each tree size. To select the best tree size, I used the 1-SE rule to select the minimum tree size that was within one standard error of the minimum error rate (Therneau and Atkinson, 1997; D'eath and Fabricius, 2000; Atkinson and Therneau, 2000). Because the best tree size varied across repeated cross-validations, I ran 50 sets of 10-fold cross-validations for each model, selected the best tree size for each cross-validation, and determined the best tree size overall by choosing the tree size that was selected most frequently (D'eath and Fabricius, 2000).

I also examined microhabitat (1 m surrounding individual fish) associations for yelloweye rockfish, canary rockfish, and lingcod. Studies in tropical and river systems have shown that microhabitat associations may differ from larger scale

habitat associations and provide important information for assessing fish management strategies (La Mesa et al., 2002; Mattingly and Galat, 2002). I recorded microhabitat features, including bottom type, relief, complexity, boulder configuration, crevices, slope, invertebrate species, other fish species, and fish behavior (resting, hovering, swimming) for all yelloweye rockfish individuals ( $n = 59$ ) and 59 randomly selected canary rockfish and lingcod individuals. I performed chi-square tests of the null hypothesis that fish distribution across habitat types was equal to the proportion of bottom types across the survey area. I measured the preference for micro-bottom types by calculating electivity indices. Various dietary electivity indices have been used to evaluate preferences for prey species (Lechowicz, 1982; Alwany et al., 2003) and may also be applied to measure species-specific selection for macrohabitat types (Baltz, 1990), providing an indication of the direction of preference. In an evaluation of different electivity indices, Lechowicz (1982) found that most provided useful measures of prey preference, but commented that Chesson's  $\alpha$  (Chesson, 1978) allowed comparisons when the relative availability of prey differed between samples. This was true in regards to habitat availability in our data.

Chesson's  $\alpha$  was calculated as

$$\alpha_i = \left( \frac{r_i}{n_i} \right) \left( \frac{1}{\sum_{i=1}^m \frac{r_i}{n_i}} \right)$$

for  $m$  different habitat types, where  $\alpha_i$  = the preference index for bottom type  $i$ ,  $r_i$  = the proportion of bottom type  $i$  used by the fish, and  $n_i$  = the proportion of bottom type  $i$  in the environment. Index values ranged from 0 to 1, with the critical value defined as  $1/m$ , where  $m$  = the number of different habitat types considered. Values

of  $\alpha_i$  greater than the critical value represented preference, whereas values less than the critical value represented avoidance for the habitat type (Krebs, 1989).

In addition to measuring associations at the microhabitat level, I examined how the bottom type changed as the area surrounding an individual fish increased from the microscale to the transect-scale. For each of the 59 individuals of yelloweye rockfish, canary rockfish, and lingcod, I characterized the surrounding bottom type by adding one 10-second interval at a time. I started with the interval in which the individual was observed and added one 10-second interval at a time, alternating between intervals before and after the starting interval, until all intervals of the transect were included. To assign a bottom type to each resulting new interval (which I referred to as a “segment”), I followed the same method as described above to define the dominant bottom type across a transect. For each 10-second interval, I gave a score of 5 to the primary substrate and a score of 2 to the secondary substrate. I determined the primary and secondary substrate for each new segment by calculating

$$P_s = \frac{1}{7v_f} \sum_{i=1}^{v_f} q_{is}$$

where  $P_s$  = the proportion of substrate  $s$  within segment  $f$ ,  $\sum q_{is}$  = the score assigned to substrate  $s$ , summed across all intervals  $i = 1$  to  $v_f$  in segment  $f$ , and  $v_f$  = the number of intervals in segment  $f$ . Bottom type was represented by a two letter code, with the first letter representing the primary substrate ( $\geq 50\%$  of the segment, or the substrate type representing the greatest proportion of the segment) and the second letter representing the secondary substrate ( $\geq 20\%$  of the segment). To examine the surrounding habitat for each fish, I grouped individual fish within each species by their microhabitat type. I then compared the bottom type at 40 m<sup>2</sup>, 100 m<sup>2</sup>, 200 m<sup>2</sup>, 300 m<sup>2</sup>, 400 m<sup>2</sup>, 500 m<sup>2</sup>, and 1000 m<sup>2</sup> surrounding the fish to describe how bottom type changed as the area surrounding a fish increased. This analysis allowed

assessment of the effect of scale on the perceived habitat of a fish and a detailed description of the neighborhood of bottom types occupied by individual fish.



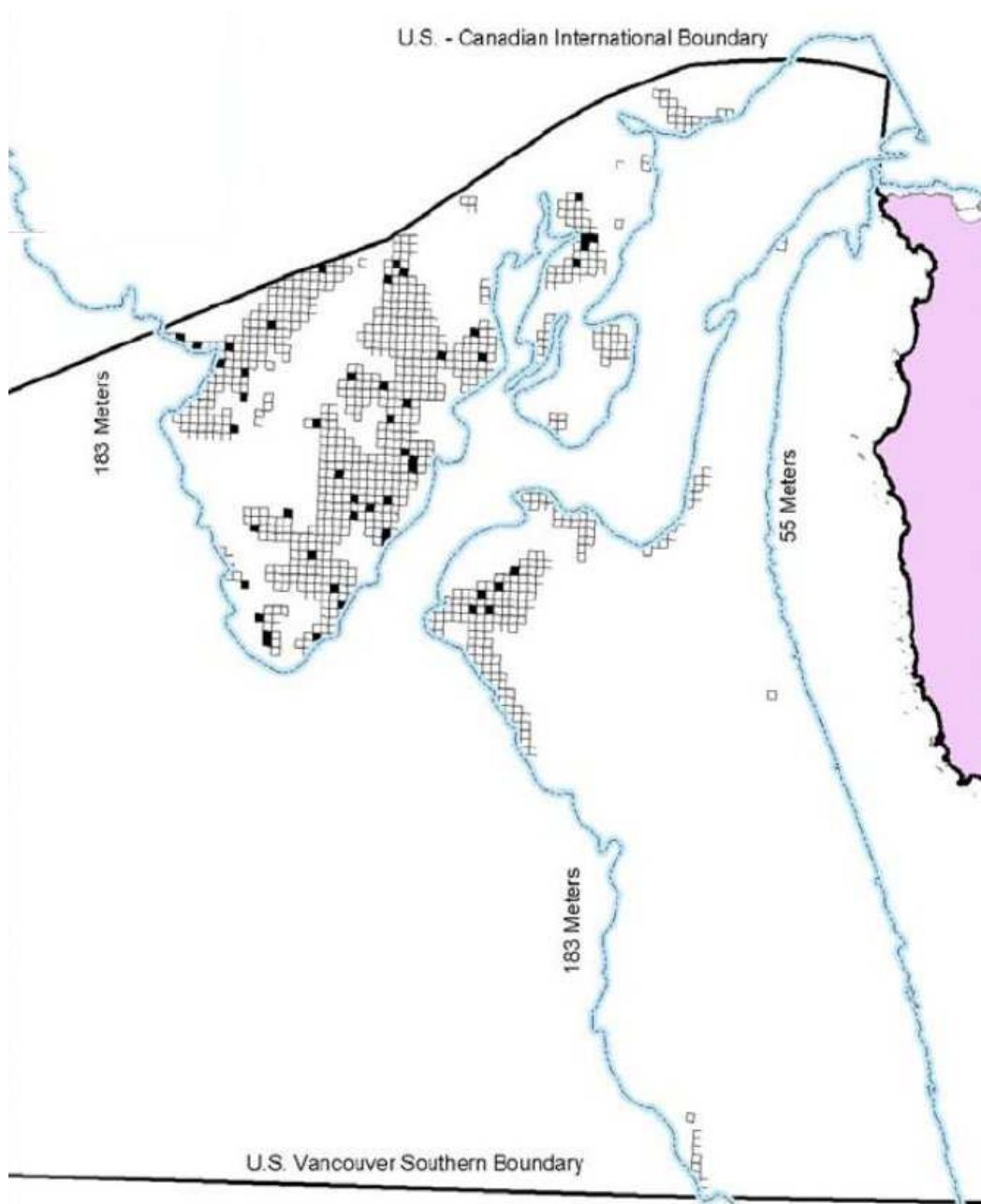


Figure 1. Map of survey area on the Washington state continental shelf (by Farron Wallace). Gridded cells represent the untrawled area. Each grid cell is 800 m by 800 m in size and represents one sample station. Darkened cells indicate stations that were sampled in the August 2002 survey.

Table 1. Physical features for habitat characterization by video analysis. Features were noted for each 10-second interval along the transects (Greene et al., 1999).

Factor	Levels	Description
Substrate type	M	Mud
	S	Sand
	P	Pebble
	C	Cobble
	B	Boulder
	R	Rock ridge
Bottom type - First letter denotes primary substrate ( $\geq 50\%$ of viewed area) - Second letter denotes secondary substrate ( $\geq 20\%$ of viewed area)	SM	Sand mud
	SP	Sand pebble
	SC	Sand cobble
	PS	Pebble sand
	PC	Pebble cobble
	CP	Cobble pebble
	SB1	Sand scattered boulder
	PB1	Pebble scattered boulder
	CB1	Cobble scattered boulder
	BS2	Contiguous boulder-sand
	BP2	Contiguous boulder-pebble
	BC2	Contiguous boulder-cobble
Boulder configuration	none	no boulders
	isolate	single boulder within an interval
	scattered	boulders not touching, covers 10-50% of area
	contiguous	boulders close to touching
	stacked	boulders touching everywhere, create vertical relief
Relief	low	flat surface, or height $< 0.25\text{m}$
	medium	height $0.25 - 1\text{m}$
	high	height $> 1\text{m}$
Complexity Ratio of surface area to linear area	A	1.0-1.5, sand/mud/silt bottom, flat/hummocky
	B	1.5-2.0
	C	2.0-2.5, scattered to contiguous boulders
	D	2.5-3.0
	E	+ 3.0, ridge, steps, contiguous to stacked boulder piles.
Crevices	none	flat, sand-pebble bottom substrates
	one	isolated boulder
	few	scattered boulder ( $< 15$ crevices)
	some	scattered to contiguous boulder (15-40 crevices)
	many	contiguous to stacked boulder ( $> 40$ crevices)
Slope	1	flat, 0-1 degree
	2	sloping, 1-30 degrees
	3	steeply sloping, 30-60 degrees
	4	vertical, 60-90 degrees
	5	overhang, $> 90$ degrees

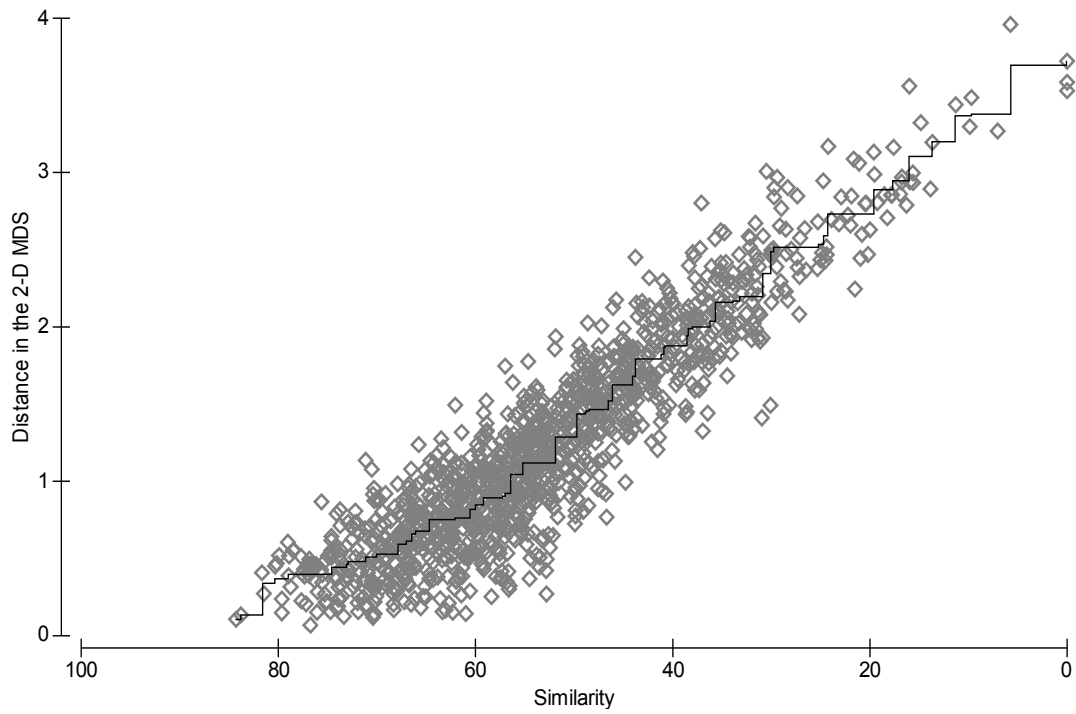


Figure 2. Shepard diagram for MDS analysis. Plot of distance on the 2D MDS plot versus the Bray-Curtis similarity between each pair of samples. Each point on the Shepard plot represents a pair of samples. The line is the best fit non-parametric regression line. The scatter about the line is measured by the value of stress. Stress indicates how well the MDS plot represents the relationships between samples, with lower values indicating a better fit (or less scatter around the regression line).

## RESULTS

### *Submersible Survey*

We completed fifty transects, sampling at fifty of the sixty primary stations during the survey cruise. We were unable to sample the remaining ten stations due to limitations of weather and the capabilities of the *Delta* submersible. Submersible dives can only be conducted during daylight hours and battery power provides about six hours of dive time, allowing a maximum of five dives per day.

The designated untrawlable areas covered 55,680 hectares. The total area surveyed within the untrawlable areas was 275,868 m<sup>2</sup>. The fifty sampled stations were within 100 to 171 m depth, although one dive reached a maximum depth of 225 m near the continental slope. The area swept averaged 5,517 m<sup>2</sup> per transect (range = 2,813 to 8,060 m<sup>2</sup>; standard deviation = 1,152 m<sup>2</sup>), with an average transect length of 2.18 km (range = 1.1 to 3 km; CV = 0.17) and average transect width of 2.52 m (range: 1.7 to 3.2 m; CV = 0.10). The speed of the submersible varied from 1.38 to 2.89 km/hr, with an average speed of 2.16 km/hr (CV = 0.15) across all transects. Videotape recordings of each transect were viewed to extract data on fish species, invertebrate species, and physical substrate features.

### *Physical habitat*

We observed a diversity of bottom types characterized by substrates of different grain sizes. The main bottom types were: silty, hummocky sand-mud; low relief, mixed sand, pebble, and small cobble; scattered boulder on sand-pebble; and contiguous to stacked boulder piles mixed with cobble or underlying sand-pebble (Fig. 3).

The dominant substrate types across all transects were low relief sand, pebble, and cobble (81.5% of surveyed area), followed by scattered boulder (13.2%), and boulder patches (5.3%). A small portion of the sand, pebble, and cobble area included high relief ridges (0.4%) covered with a layer of sediment. Despite the predominance of low relief substrates, most transects contained a mix of patches of different bottom types. Boulder substrates were sufficiently interspersed on the sand, pebble, and cobble substrate, such that it provided an obvious obstacle to trawl fishing, thus making the habitat “untrawlable” (Table 2).

### *Invertebrate communities*

Invertebrate communities within the survey area included at least thirty two species or multi-species groups from six phyla. Of all identifiable macroinvertebrates, encrusting sponge, finger sponge, and blood stars (*Henricia* spp.) were observed most frequently across all transects (Table 3). Echinoderms were the most diverse and ubiquitous group, although many were not identifiable to species. Unique invertebrate aggregations included areas of dense brittle stars (*Ophiopholus* sp. and *Ophiura* sp.) carpeting flat sand-mud or sand-pebble, squat lobster (*Munida quadraspina*) aggregations, and a few large aggregations of box crabs (*Lopholithodes* spp.). Although they were not counted, sea cucumbers (*Parastichopus californicus* and *P. leukothele*) and sea urchins (*Allocentrotus* sp. and *Strongylocentrotus pallidus*) were common throughout the surveyed area.

Macroinvertebrates that provided structure and vertical relief for fish species were of primary concern to this project. Macroinvertebrates that were relatively sessile and provided structure and vertical relief included sponges, sea pens, sea whips, sea anemones, crinoids, and basket stars. Counts of each group were recorded to estimate density (Figs. 4 and 5). Crinoids were the most abundant (average density =

2033.5 per hectare). They were often observed in dense aggregations attached to boulders or on flat pebble-sand bottoms. Sponges were also abundant throughout the surveyed area, although they were nearly impossible to identify to species without collecting specimens (Henry Reiswig and Bill Austin, personal communication). I categorized and counted sponges by shape, rather than species. Glass sponges (irregularly shaped sponges often called cloud sponges) were abundant in many areas (average density = 301.1 per hectare), often forming aggregations of regularly spaced individuals (sponge gardens; Fig. 6) on sand-mud or sand-pebble bottoms or ridges (Fig. 4). Vase sponges and branched finger sponges were also observed in high numbers on some transects, mainly on low relief substrates and occasionally in areas of scattered boulders. Sea anemones usually occurred singly on boulders. White sea pens were abundant on low relief, sandy substrates (Fig. 4). Three orange sea pens were seen on low relief substrates and six basket stars were observed on boulders in the survey area.

#### *Fish observations*

We identified and counted thirty-four species of fish, including sixteen rockfish species (Table 4). Fish species that were the most widely distributed across transects were: unidentified flatfish (98% of transects), unidentified rockfish (94%), greenstripe rockfish (94%), dover sole (86%), rosethorn rockfish (82%), halibut (70%), canary rockfish (66%), ratfish (*Hydrolagus colliei*; 66%), and longnose skate (*Raja rhina*; 62%; Table 5). In terms of numbers of fish, unidentified rockfish were the most abundant (74% of total fish count), followed by unidentified flatfish (5.7%), rosethorn rockfish (5.2%), and greenstripe rockfish (4.2%; Table 5). Species that showed schooling behavior included unidentified rockfish, canary rockfish, yellowtail rockfish (*Sebastes flavidus*), dogfish (*Squalus acanthias*), pollock (*Theragra chalcogramma*), and herring (*Clupea harengus*). Unidentified juvenile

rockfish usually formed large aggregations and hovered over the bottom substrate. Canary rockfish and yellowtail rockfish formed mixed schools that swam off bottom. Dogfish occurred in schools that swam close to the bottom substrate, usually over hummocky, silty sand-mud. Pollock and herring were observed in large schools on a few transects (Table 5).

Groundfish species differed in their distribution across bottom types at the within-transect scale. Among the rockfish species, yelloweye rockfish, rosethorn rockfish, tiger rockfish (*Sebastes nigrocinctus*), and unidentified rockfish occurred most often in boulder piles and scattered boulder fields, with the greatest average density in areas with stacked boulders (Fig. 7). Redstripe rockfish also occupied boulder habitats, with the highest density in contiguous boulders with underlying sand substrate. Canary rockfish, yellowtail rockfish, sharpchin rockfish, greenstripe rockfish, and silvergray rockfish (*Sebastes brevispinis*) occurred over all bottom types, and seemed to be generalists in their use of substrates (Fig. 8). Greenstripe rockfish in particular were often observed sitting on the bottom on soft sediments or among isolated or scattered boulders, with few individuals in boulder piles (Fig. 9). Studies off Oregon noted similar habitat use by greenstripe rockfish (Hixon et al., 1991). Pacific ocean perch (*Sebastes alutus*) occurred on only one transect over pebble-sand and pebble-cobble substrates. Shortspine thornyhead (*Sebastolobus alascanus*) were only observed on the deepest transect (at 225 m) on pebble-sand and pebble-cobble covered slope bottoms. We observed a single greenspotted rockfish and a few redbanded rockfish (*Sebastes babcocki*) over low relief substrates, a few individuals of widow rockfish (*Sebastes entomelas*) and quillback rockfish (*S. maliger*) over both low relief and scattered boulder substrates, and a single bocaccio (*S. paucispinus*) over scattered boulders (Figs. 10 and 11).

Lingcod and greenlings (*Hexagrammos* spp.) were most often seen in scattered to stacked boulder, with the greatest density in areas of contiguous boulder with

underlying sand, pebble, or cobble substrates (Fig. 9). Ratfish also showed a preference for boulder-dominated areas and were often observed swimming over boulder piles (Fig. 12). Flatfishes and skates occurred in greater densities in low relief bottom types, although halibut and longnose skate used all bottom types, with high density in areas of scattered boulder (Figs. 12, 13, and 14)

Other species were observed on only a few transects. A single wolfeel (*Anarrhichthys ocellatus*) and a few prowlfish (*Zaprora silenus*) occupied contiguous boulder piles (Fig. 11). A single sablefish (*Anoplopoma fimbria*) was observed over pebble-sand bottom (Fig. 15). Several Pacific hagfish (*Eptatretus stouti*) were seen swimming over a range of different bottom types. Schools of dogfish, pollock, and Pacific cod (*Gadus macrocephalus*) occurred over low relief substrates, whereas herring were observed in greater density over scattered boulders (Figs. 14 and 15).

#### *Community-level associations*

##### Transect-scale associations

Fish communities did not appear to be significantly associated with any of the habitat factors at the transect-scale. Multivariate analysis of fish communities using MDS analysis produced the two-dimensional plot shown in Figure 16. Each point on the plot represents one sample unit (here, a transect). The stress level (0.18) for the 2-dimensional plot indicated that the 2D plot provided a useful visual representation of the overall structure in the species data, but should not be used to examine fine-scale structure. Among the categorical habitat factors, boulder type was the best candidate for categorizing fish community structure. Samples characterized by scattered or mixed boulder grouped together on the MDS plot (Fig. 16), indicating that groups with similar fish communities also shared similar habitats, defined by boulder type.



The MDS plot suggested that fish communities within areas of low relief substrate (boulder type “none”) were more similar to each other than fish communities within areas dominated by a large proportion of scattered to stacked boulder (boulder types “scattered” and “mixed”; Fig. 16). The fish communities associated with each boulder type were significantly different (one-way ANOSIM global R value was significant:  $p = 0.001$ ), suggesting that groups of similar fish communities differed in their associated boulder type. However, the low global R value (global  $R = 0.201$ ) indicated that fish communities associated with the different boulder types were not clearly distinct, but overlapped extensively. Pairwise tests between groups also indicated that the fish communities associated with each boulder type shared many similarities (Table 6).

The differences detected in fish communities might arise from differences in species density between low relief and scattered to mixed boulder areas. Fish species richness did not differ significantly by boulder type (ANOVA,  $p = 0.176$ ), although average species richness increased with complexity of bottom types (Fig. 17; Table 7). Scattered and mixed boulder substrates supported a significantly greater density of fish than low relief substrates (ANOVA,  $p < 0.001$ ), but low relief substrates supported greater species diversity (ANOVA,  $p < 0.001$ ; Fig. 17; Table 7). Fish communities in boulder areas may have been dominated by a few species, whereas low relief substrates supported low numbers of several species.

Species-specific fish densities differed among low relief, scattered boulder, and mixed boulder substrates (SIMPER; Table 8). Fish communities in different boulder types shared similar species, but differed in the density of species. Scattered and mixed boulder substrates supported greater densities of unidentified rockfish, rosethorn rockfish, canary rockfish, yellowtail rockfish, and lingcod, and lower densities of flatfish. These species were good discriminating species (high  $\hat{\delta}_{jk}(i)$  /

$SD(\hat{\delta}_{jk}(i))$ , or Diss/SD, values) for differences in fish communities between low relief and scattered to mixed boulder samples. Good discriminating species for fish communities in scattered versus mixed boulder samples were greenstripe rockfish (Diss/SD = 1.4), yellowtail rockfish (Diss/SD = 1.4), unidentified rockfish (Diss/SD = 1.4), and lingcod (Diss/SD = 1.3). Greenstripe rockfish and unidentified rockfish were more abundant in scattered boulder, whereas lingcod and yellowtail rockfish were more abundant in mixed boulder (Table 8). Although differences existed between the fish communities associated with different bottom types, they differences were not large.

#### Patch-scale associations

Differences in species composition at the transect level were further explored by examining fish communities at the patch-scale. Sample units at a smaller spatial scale (100 m<sup>2</sup>) allowed better detection of fish community-habitat relationships. As in the transect-level analysis, the resulting two-dimensional MDS plot (stress = 0.16) showed the grouping of samples based on the species density data and how categorical habitat variables related to those groupings. Visual inspection of the plot indicated that samples with similar fish communities also shared similar bottom types (Fig. 18). Patches characterized by scattered boulder or boulder grouped together in the center of the plot, suggesting that fish communities within these bottom types were more similar to one another than to fish communities within sand-mud, sand-pebble, or pebble-sand bottom types. Fish communities were significantly different among bottom types (One-way ANOSIM,  $p = 0.001$ ) but the mid range R-value of 0.486 indicated that some overlap existed among these communities. Pairwise tests between bottom type groups identified which groups were distinct: sand-mud and scattered boulder ( $R = 0.857$ ), sand-mud and boulder ( $R$

= 0.806), and pebble-sand and boulder ( $R = 0.642$ ) patches showed the greatest differences in fish communities (Table 6).

Like the transect-scale community associations, differences in fish communities among bottom types were due to differences in fish density rather than differences in species. Based on the results of the pairwise tests in ANOSIM (Table 6), I redefined the 5 levels of bottom type into 3 levels: all low relief types were combined into SMP = sand-mud, sand-pebble, and pebble-sand substrates; B1 = scattered boulder; and B = mixed boulder. Communities defined by the three levels of bottom type did not differ significantly in species richness (ANOVA,  $p = 0.509$ ) or in species diversity (ANOVA,  $p = 0.449$ ; Fig. 19; Table 7). However, fish density was significantly greater in scattered boulder patches than in low relief patches and mixed boulder patches (ANOVA,  $p < 0.001$ ; Tukey,  $p < 0.05$ ; Fig. 19; Table 7). Differences in the density of unidentified rockfish, rosethorn rockfish, greenstripe rockfish, lingcod, and unidentified flatfish were the main contributors to the differences between bottom types (SIMPER analysis; Table 9). Unidentified rockfish, rosethorn rockfish, and lingcod were more abundant in scattered and mixed boulder patches, whereas greenstripe rockfish and unidentified flatfish were more abundant on low relief patches. Unidentified rockfish (Low relief vs. Scattered:  $\text{Diss}/\text{SD} = 1.2$ ; Low relief vs. Mixed:  $\text{Diss}/\text{SD} = 1.1$ ; Scattered vs. Mixed:  $\text{Diss}/\text{SD} = 1.0$ ) and rosethorn rockfish (Low relief vs. Scattered:  $\text{Diss}/\text{SD} = 1.6$ ; Low relief vs. Mixed:  $\text{Diss}/\text{SD} = 1.5$ ; Scattered vs. Mixed:  $\text{Diss}/\text{SD} = 1.0$ ) were good discriminating species for differences between all three bottom types (Table 9).

*Single-species analysis*Classification and regression trees

I examined the habitat associations of yelloweye rockfish, canary rockfish, and lingcod by constructing classification and regression trees. For all three species, bottom type and invertebrate density (anemones and crinoids) were related to fish presence and density. However, cross-validation results to select the optimal tree size often indicated that a tree of one node with no branches (similar to a model with only an intercept) performed just as well or better than trees with two or more branches (Appendix A). This was the case for regression trees relating species density to habitat features at the transect level for all three species, and for classification trees relating the presence of yelloweye rockfish and canary rockfish to habitat features at the patch-level. These results indicated that the trees may not be useful for predicting species density at the transect level or species presence at the patch level. However, the trees were still useful as an exploratory tool to describe the habitat features with which each species was associated.

Yelloweye rockfish were observed on 24 transects, from depths of 102 – 164 m. The estimated average density across the entire survey area was 2.02 fish/hectare, with a total of 59 fish observed. For transect-level analyses, I constructed both regression and classification trees. Greater yelloweye rockfish densities (mean = 6.35 fish/ha,  $n = 6$ ; Fig. 20A) were related to high anemone density ( $> 13.4$  per hectare) on transects, although the cross validation results indicated that anemone density would be a poor predictor of yelloweye rockfish density for new data (Fig. 20A; Appendix A).

Yelloweye rockfish presence on transects was also related to high anemone density greater than 4.66 per hectare (Fig. 20B). Alternative predictor variables for yelloweye rockfish presence included the presence of crinoids (density  $> 0.702$ /ha) and boulder substrates (boulder type = mixed).

At the patch-level, patch area and anemone density were the main factors related to yelloweye rockfish presence. Yelloweye were absent on most patches less than 689 m<sup>2</sup> in area (Fig. 20C). In patches greater than 689 m<sup>2</sup>, yelloweye rockfish were absent from most patches with anemone density less than 13.43 per hectare. Bottom type was also a strong predictor at this node, indicating that yelloweye rockfish were present in scattered to mixed boulder patches greater than 689 m<sup>2</sup> and absent from most patches of the same area dominated by sand, pebble, or cobble. Yelloweye rockfish density was greater and less variable in these preferred patches of boulder (n = 22, mean density = 10.13 per ha, CV = 1.46) than in other patches (n = 962, mean density = 2.37 per ha, CV = 8.04). However, cross validation results indicated that the model based on these features would perform poorly given new data (Appendix A). This might have been a result of the low numbers of yelloweye rockfish observed within our study area. Yelloweye rockfish were present on only 5% of the patches (n = 42), leaving many patches with presumably preferred habitat features unoccupied. Although patch size and anemone density may be useful factors to identify where yelloweye rockfish would most likely be found, given their low numbers overall and the large number of unoccupied patches, yelloweye rockfish presence was difficult to predict based on these habitat features.

Canary rockfish were present on 33 transects, at all depths (102-225 m). The estimated average density across the whole survey area was 22.08 fish/hectare, with a total of 645 fish observed. For all tree models, the habitat features describing canary rockfish presence and density were poor predictors for new data. At the transect level, canary rockfish density and presence were both related to high crinoid density (Fig. 21 A and B). Canary rockfish density was greater on transects with crinoid density greater than 175.4 per hectare. Canary rockfish were present on most transects with crinoid density greater than 117.4 per hectare. For transects with low crinoid density, canary rockfish presence was associated with depths greater than 135 m (Fig. 21B). Canary rockfish density was greater in these transects (n = 24,

mean density = 28.2 per ha, CV = 2.1) than in other transects (n = 26, mean density = 16.4 per ha, CV = 4.02). At the patch-scale, canary rockfish were present on 11% of patches. Canary rockfish were absent from most patches less than 216 m<sup>2</sup> in area and with total fish density (excluding canary rockfish) less than 1,765 fish per hectare. Bottom type and large patch area were also factors related to canary rockfish presence (Fig. 21C). The poor performance of the models in predicting canary rockfish density and presence may be a consequence of the behavior and pattern of habitat use of this species within our survey area. Canary rockfish were usually seen in schools swimming off bottom and not directly associated with the bottom. Canary rockfish were also observed in all habitat types. The results of the tree models agreed with our observations of canary rockfish in the survey.

Lingcod were observed on 34 transects, from 102-169 m depth. The estimated average density across the survey area was 18.04 fish/hectare, with a total of 476 fish observed. At the transect level, lingcod density was related to bottom type, with greater densities of lingcod on transects dominated by sand-pebble, pebble-boulder, boulder-pebble, or boulder-cobble (n = 16, mean density = 46.0 per ha) than on other transects (n = 34, mean density = 4.9 per ha; Fig. 22A). The cross-validation results for the regression tree, however, indicated that despite the association of greater densities of lingcod with specific bottom types, bottom type would not be a good predictor of lingcod density at the transect level (Appendix A). Lingcod presence, however, was predicted with few misclassifications based on anemone presence (anemone density >0.74 per hectare) and depth (< 142.5 m; Fig. 22B). Within transects, patch size and bottom type were major factors influencing lingcod presence (Fig. 22C). Lingcod were absent on most patches less than 217 m<sup>2</sup> in area. Among patches greater than the 217 m<sup>2</sup>, lingcod were present on nearly all patches of mixed boulder (Fig. 22C). High densities of sheet sponges ( $\geq 8.36$  per ha), basket sponges ( $\geq 15.14$  per ha), and anemones ( $\geq 54.59$  per ha) were strong surrogate splits

for this node. Among the other bottom types (from sand-mud to scattered boulder), lingcod presence was related to high crinoid density  $> 14.12$  per hectare (this node was not included in the final tree). Lingcod density was greater in mixed boulder patches greater than  $217 \text{ m}^2$  in area ( $n = 27$ , mean density = 70.5 per ha, CV = 1.04) than in other patches ( $n = 956$ , mean density = 26.2 per ha, CV = 4.33).

Classification tree models performed better in prediction of lingcod presence than for either yelloweye rockfish or canary rockfish. This may be related to the behavior and distribution of lingcod in our survey area. Lingcod were present on about 18% of patches. Lingcod were usually observed near the bottom and solitary, although several lingcod individuals could be observed occupying the same patch. Although patches with preferred habitat features were left unoccupied, the presence and association of lingcod with specific habitat features was consistent enough to allow successful prediction of lingcod presence using these features.

To further examine associations between habitat features and species presence that may not have been revealed in the classification and regression tree analyses, I compared the habitat features of transects and patches that were occupied versus those that were unoccupied by each species. For transect-level comparisons, I compared the mean densities of invertebrates (fourth-root transformed to address non-normality) and mean depth (m) between transects occupied and unoccupied by each species. For yelloweye rockfish, the densities of crinoids (2-sample t-test:  $p = 0.013$ ; Table 10) and anemones ( $p < 0.001$ ) were significantly greater on transects where yelloweye were present than on transects where yelloweye were absent. Densities of finger sponge ( $p = 0.018$ ) and white sea pens ( $p = 0.031$ ) were significantly greater on transects where yelloweye rockfish were absent compared to transects occupied by yelloweye rockfish. Yelloweye rockfish were present on a greater proportion of transects characterized by boulders than on transects characterized by soft, low relief sediments (Fig. 23A and B). For canary rockfish

and lingcod, relationships with habitat features were similar to those described by the classification and regression trees. Transects on which canary rockfish were present had significantly greater crinoid density ( $p = 0.002$ ) than transects on which canary rockfish were absent. Transects with lingcod were significantly shallower ( $p < 0.001$ ) and had significantly greater densities of crinoids ( $p = 0.004$ ) and anemones ( $p < 0.001$ ; Table 10).

For patch-level comparisons, I compared the mean densities of invertebrates (fourth-root transformed to address non-normality) and the mean patch area (in  $m^2$ ; also fourth-root transformed for non-normality) between patches occupied versus patches unoccupied by each species. Like the classification trees, the results indicated differences in patch area and invertebrate densities between patches where species were present and patches where species were absent. All three species occupied patches that were significantly larger in area ( $p < 0.001$  for all three species) and had significantly greater densities of anemones (yelloweye rockfish:  $p = 0.005$ ; canary rockfish:  $p = 0.019$ ; lingcod:  $p = 0.004$ ; Table 11). The density of basket sponges was significantly less in patches occupied by canary rockfish ( $p = 0.037$ ) and lingcod ( $p = 0.055$ ), but significantly greater in patches occupied by yelloweye rockfish ( $p = 0.055$ ). Patches occupied by canary rockfish were also characterized by greater densities of crinoids ( $p = 0.002$ ), finger sponges ( $p = 0.038$ ), vase sponges ( $p = 0.026$ ), and sheet sponges ( $p = 0.019$ ; Table 11). Lingcod also occupied patches with significantly greater densities of crinoids ( $p = 0.001$ ) and sheet sponges ( $p = 0.003$ ; Table 11). Yelloweye rockfish occupied a larger proportion of patches characterized by boulders than patches characterized by low relief substrates, whereas canary rockfish and lingcod occupied similar proportions of low relief and boulder-dominated patches (Fig. 24).



### Microhabitat associations

The frequency of use for each micro-bottom type differed significantly from the frequency of the bottom types in the environment (Yelloweye rockfish:  $\chi^2 = 258.7$ ,  $df = 8$ ,  $p < 0.001$ ; Canary rockfish:  $\chi^2 = 69.4$ ,  $df = 7$ ,  $p < 0.001$ ; Lingcod:  $\chi^2 = 140.2$ ,  $df = 8$ ,  $p < 0.001$ ). All three species showed preference for boulder microhabitats (Fig. 25), especially contiguous boulder on sand-pebble bottom. Yelloweye rockfish preferred stacked boulder piles, and were found almost exclusively in boulder habitats, except for one individual over a rock ridge and two individuals over pebble-sand with crinoids (Fig. 25A). Crinoids were abundant in most microhabitats occupied by yelloweye rockfish (Fig. 26). Cloud sponge, anemones, vase sponge, and finger sponge were also present in microhabitats occupied by yelloweye rockfish (Fig. 26). Canary rockfish showed preference for contiguous boulder microhabitats (Fig. 25B), but occurred in all bottom types. Sponges, white sea pens, and crinoids were often present in microhabitats occupied by canary rockfish (Fig. 26). Microscale observations of lingcod showed preference for boulder substrates, particularly contiguous boulder with underlying soft substrates (Fig. 25C). Crinoids and anemones were present in microhabitats occupied by lingcod (Fig. 26).

I examined how the habitat, in terms of bottom type, changed from microscale to transect-scale to better describe the neighborhood of bottom types surrounding individual fish. For individuals occupying low relief sand, pebble, or cobble micro-bottom types, the surrounding bottom type was usually continuous sand-pebble (Figs. 27C and 28C). For yelloweye, the two individuals in pebble-sand and ridge habitats were also surrounded by continuous sand-pebble substrates. For individual fish occupying scattered boulder microhabitats, the surrounding habitat varied at different scales (Fig. 27C, 28C, and 29B), indicating that individual fish occupied small ( $<40 \text{ m}^2$ ) to large (at least  $1000 \text{ m}^2$ ) segments of scattered boulder. Most of the scattered boulder habitats occupied by yelloweye ( $n=22$ ) were less than  $140 \text{ m}^2$  in area, with surrounding sand, pebble, or cobble substrates (Fig. 29B). For canary rockfish ( $n =$

17) and lingcod ( $n = 23$ ) in scattered boulder, the frequency of boulder and scattered boulder habitats remained fairly constant with increasing area (Fig. 27B and 28B). About half of the canary rockfish and lingcod observed in scattered boulder microhabitats occupied large boulder segments, whereas half occupied smaller boulder segments surrounded by sand, pebble, and cobble dominated habitats. The size of areas and surrounding habitat for individuals occupying mixed boulder pile microhabitats varied by species. The increase in the frequency of segments characterized as sand-pebble or scattered boulder with increasing area indicated that yelloweye rockfish occupied small ( $<40 \text{ m}^2$ ) to large (at least  $1000 \text{ m}^2$ ) boulder piles surrounded by low relief substrates ( $n = 34$ ; Fig. 29A). Lingcod also occupied small ( $<40 \text{ m}^2$ ) to large (at least  $1000 \text{ m}^2$ ) boulder piles within larger areas of low relief to scattered boulder ( $n = 18$ ; Fig. 28A). The few canary rockfish found in boulder pile microhabitats ( $n = 5$ ) were surrounded by continuous boulder or scattered boulder (Fig. 27A).

For all three species, the bottom type occupied differed based on the scale at which it was classified. The frequency of segments characterized by low relief substrates increased as the area of segments increased, because low relief substrates (mud, sand, pebble, and small cobble) were the dominant substrate types throughout the surveyed area. In particular, the frequency of segments characterized by boulder decreased with increasing size of segments (Figs. 27, 28, and 29). These observations suggested that the perceived habitat preferences of fish species may change depending on the scale of habitat classification and stressed the importance of spatial scale in defining habitat and describing fish-habitat associations.



Figure 3. Frame grab images of bottom types. Frame grabs show examples of bottom types observed in the survey: A) hummocky sand-mud (SM) substrates; B) scattered boulder on pebble cobble (PB1); C) cobble with scattered boulder (CB1); and D) stacked boulder (BB3). Laser points projected onto the bottom by the 3-beam QMS were used to estimate the size of objects. Rightmost and leftmost laser points were two feet apart.

Table 2. Summary data for transects. Area swept (m<sup>2</sup>), depth (m), bottom type, and proportions of each bottom type for each transect (n = 50) from August 2002 submersible survey. Codes for substrate types: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered boulder, 2 = contiguous boulder, 3 = stacked boulder. Codes for bottom types: first letter = primary substrate and the second letter = secondary substrate.

Delta Dive	Area (m <sup>2</sup> )	Depth (m)	Bottom type	SM	SP	PS	SC	PC	CP	SB1	PB1	CB1	BS2	BP2	BC2	BB3	RR
5642	2881	116	SM	0.75	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5643	5538	115	PS	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5644	5160	110	SP	0.04	0.84	0.00	0.01	0.00	0.00	0.09	0.00	0.01	0.02	0.00	0.00	0.00	0.00
5645	4557	110	PS	0.00	0.01	0.90	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5646	4585	112	PS	0.00	0.04	0.84	0.00	0.02	0.00	0.00	0.03	0.04	0.00	0.00	0.03	0.01	0.00
5647	5274	225	PS	0.00	0.00	0.95	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5648	5583	168	SM	0.93	0.03	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5649	3894	145	PS	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5650	6076	125	PS	0.08	0.22	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5651	5111	134	BC	0.01	0.25	0.00	0.01	0.00	0.00	0.02	0.16	0.32	0.01	0.01	0.13	0.09	0.00
5652	4883	152	SM	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5653	5612	135	SP	0.47	0.51	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5654	4564	160	SP	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5655	3749	133	SP	0.13	0.41	0.00	0.01	0.01	0.00	0.08	0.21	0.13	0.00	0.00	0.02	0.00	0.00
5656	6427	140	SP	0.00	0.85	0.00	0.00	0.01	0.00	0.00	0.12	0.01	0.00	0.00	0.01	0.00	0.00
5657	4710	155	PS	0.00	0.00	0.63	0.00	0.34	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
5658	5848	140	PS	0.00	0.00	0.76	0.01	0.05	0.00	0.00	0.05	0.11	0.00	0.00	0.02	0.00	0.00
5659	6763	136	PS	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.00	0.04	0.00	0.00
5660	4220	120	PS	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.01	0.02	0.01	0.00
5661	5161	117	PB	0.00	0.00	0.57	0.00	0.01	0.00	0.00	0.13	0.06	0.00	0.01	0.12	0.09	0.00
5662	7719	120	BP	0.00	0.00	0.20	0.00	0.03	0.00	0.00	0.07	0.15	0.00	0.01	0.27	0.27	0.00
5663	3506	115	SP	0.11	0.85	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
5664	6235	125	PS	0.00	0.08	0.90	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5665	7340	157	SP	0.04	0.66	0.00	0.18	0.00	0.00	0.08	0.04	0.01	0.00	0.00	0.00	0.00	0.00
5666	4957	156	SC	0.07	0.28	0.02	0.09	0.00	0.00	0.24	0.07	0.21	0.00	0.00	0.01	0.00	0.00
5667	5373	150	SM	0.81	0.10	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5668	6384	131	SM	0.63	0.23	0.00	0.00	0.00	0.00	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.02
5669	4794	145	SC	0.37	0.03	0.00	0.26	0.00	0.00	0.07	0.00	0.22	0.00	0.00	0.05	0.00	0.00
5670	6057	145	CS	0.31	0.00	0.00	0.13	0.00	0.00	0.08	0.00	0.48	0.00	0.00	0.00	0.00	0.00
5671	7121	153	SC	0.11	0.02	0.00	0.39	0.00	0.00	0.07	0.00	0.41	0.00	0.00	0.00	0.00	0.00
5672	4211	164	SC	0.29	0.00	0.00	0.37	0.00	0.01	0.04	0.00	0.28	0.00	0.00	0.01	0.00	0.00
5673	5693	159	SC	0.21	0.04	0.00	0.55	0.00	0.00	0.10	0.01	0.10	0.00	0.00	0.00	0.00	0.00
5674	6892	171	PS	0.00	0.04	0.87	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5675	8060	165	PS	0.00	0.01	0.95	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00
5676	7473	164	PS	0.00	0.00	0.92	0.00	0.05	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00
5677	6531	169	PS	0.00	0.00	0.98	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5678	2813	164	PS	0.00	0.00	0.82	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5679	5678	117	SM	0.64	0.15	0.00	0.00	0.00	0.00	0.11	0.00	0.01	0.03	0.00	0.02	0.01	0.03
5680	6344	110	PS	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.01	0.07	0.07	0.00
5681	5992	116	SP	0.00	0.62	0.00	0.00	0.00	0.00	0.01	0.10	0.07	0.01	0.02	0.16	0.01	0.00
5682	5271	117	PS	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00
5684	5727	112	PB	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.15	0.10	0.00	0.03	0.13	0.02	0.00
5685	6134	117	SM	0.88	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.02	0.00	0.00	0.00	0.02
5686	6260	102	PS	0.00	0.00	0.97	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
5687	5781	110	SP	0.34	0.41	0.00	0.00	0.00	0.00	0.07	0.08	0.01	0.00	0.03	0.03	0.04	0.00
5688	5590	107	SP	0.00	0.66	0.03	0.00	0.00	0.00	0.04	0.09	0.04	0.01	0.01	0.09	0.02	0.01
5689	5221	126	PS	0.00	0.00	0.70	0.02	0.12	0.00	0.00	0.01	0.08	0.00	0.00	0.04	0.04	0.00
5690	6514	104	SP	0.05	0.48	0.05	0.02	0.05	0.00	0.05	0.08	0.08	0.01	0.01	0.06	0.01	0.05
5691	4770	105	SP	0.40	0.42	0.00	0.00	0.01	0.00	0.04	0.04	0.01	0.02	0.02	0.03	0.02	0.00
5692	4835	111	SM	0.37	0.35	0.00	0.00	0.00	0.00	0.16	0.00	0.01	0.04	0.00	0.00	0.02	0.05

Table 3. Summary of invertebrate species/groups observed. At least 32 species/groups were identified from survey transect videos. The phylum, scientific name, common name, and frequency of occurrence are listed for all identifiable species/groups. The density (number/ ha), standard deviation (in parentheses), and total abundance (number) across all transects are recorded for twelve species/groups that provide structure and relief.

Invertebrate Species / Groups						
Phylum	Scientific name	Common name	Frequency	Density	Abundance	
PORIFERA	Class Demospongiae	Encrusting sponge	45			
		Finger sponge	43	158.7 (501.9)	4579	
		Gray puffball sponge	17			
		Cup sponge	7	0.66 (2.121)	21	
	Class Calcarea	Basket sponge	6	0.78 (2.121)	24	
		Sheet sponge	4	3.2 (15.8)	106	
		Cloud sponges	39	301.1 (755.9)	9155	
		Vase sponge	35	283.2 (896.8)	9708	
		Boot sponge	2			
CNIDARIA	<i>Virgularia</i> sp	White sea pen	34	204.4 (657.6)	4626	
	<i>Ptilosarcus gurneyi</i>	Orange sea pen	2	0.11 (0.567)	3	
	<i>Balticina septentrionalis</i>	Sea whip	4	0.59 (3.119)	13	
	Order Actiniaria	Sea anemones	26	7.8 (19.0)	216	
MOLLUSCA	<i>Fusitriton oregonensis</i>	Hairy triton	29			
ARTHROPODA	<i>Pandalus platyceros</i>	Spot prawn	12			
	<i>Munida quadraspina</i>	Squat lobster	31			
	<i>Lopholithodes</i> spp	Brown box crab	18			
ECHINODERMATA	<i>Florometra serratissima</i>	Crinoids	34	2033 (3193)	61750	
	<i>Parastichopus californicus</i> and <i>P. leukothele</i>	Sea cucumber	37			
	<i>Allocentrotus</i> spp	Pink urchin	36			
	<i>Strongylocentrotus pallidus</i>	Pale urchin	33			
	<i>Ophiopholus</i> spp / <i>Ophiura</i> spp	Orange brittle star Five-arm brittle star	14 7			
	<i>Henricia</i> spp	Blood stars	45			
	<i>Luidia</i> spp/ <i>Stylasterias</i> spp	Mud star/ Long ray star	40			
	<i>Gephyreaster</i> / <i>Mediaster</i> spp	Gunpowder/ Vermilion stars	38			
	<i>Poraniopsis</i> / <i>Pteraster</i> spp	Cushion stars	38			
	<i>Solaster</i> spp	Sun star	36			
	<i>Crossaster papposus</i>	Rose star	33			
	<i>Pycnopodia</i> spp	Sunflower star	29			
	<i>Gorgonocephalus eucnemis</i>	Common basket star	4	0.19 (0.916)	6	
	CHORDATA	Class Ascidiacea	Tunicates	12		

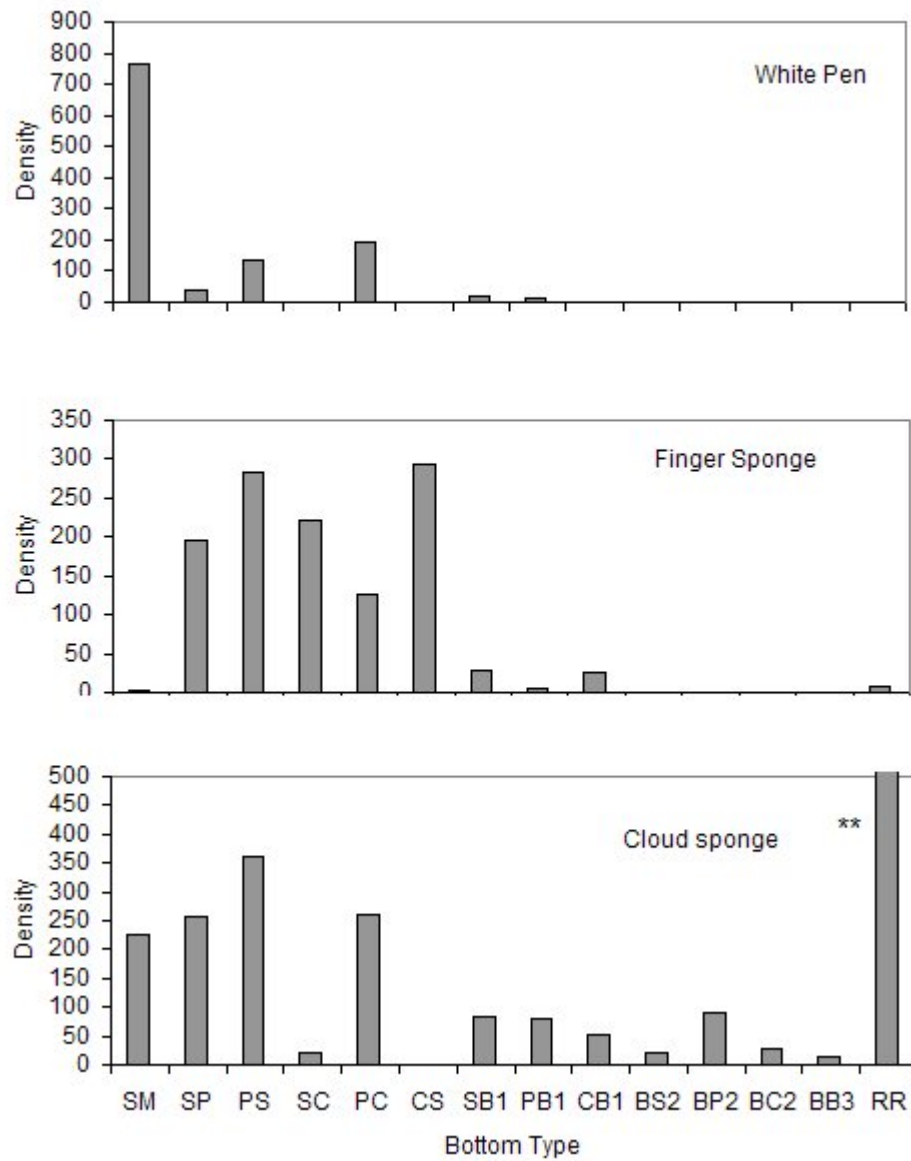


Figure 4. White sea pen, finger sponge, and cloud sponge distribution. The average densities per hectare by bottom type were plotted to describe the distribution of invertebrate species/groups that provide structure and vertical relief. The sample units for the calculation of average density by habitat type were the 10-second intervals. Plots are shown for invertebrate species/groups that occurred on several transects and in high abundance: white sea pens (*Virgularia* sp.), finger sponge (Class Demospongiae), and cloud sponge (Class Calcarea). Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered boulder, 2 = contiguous boulder, and 3 = stacked boulder. \*\* Cloud sponge density was 15,887 per hectare for bottom type RR.

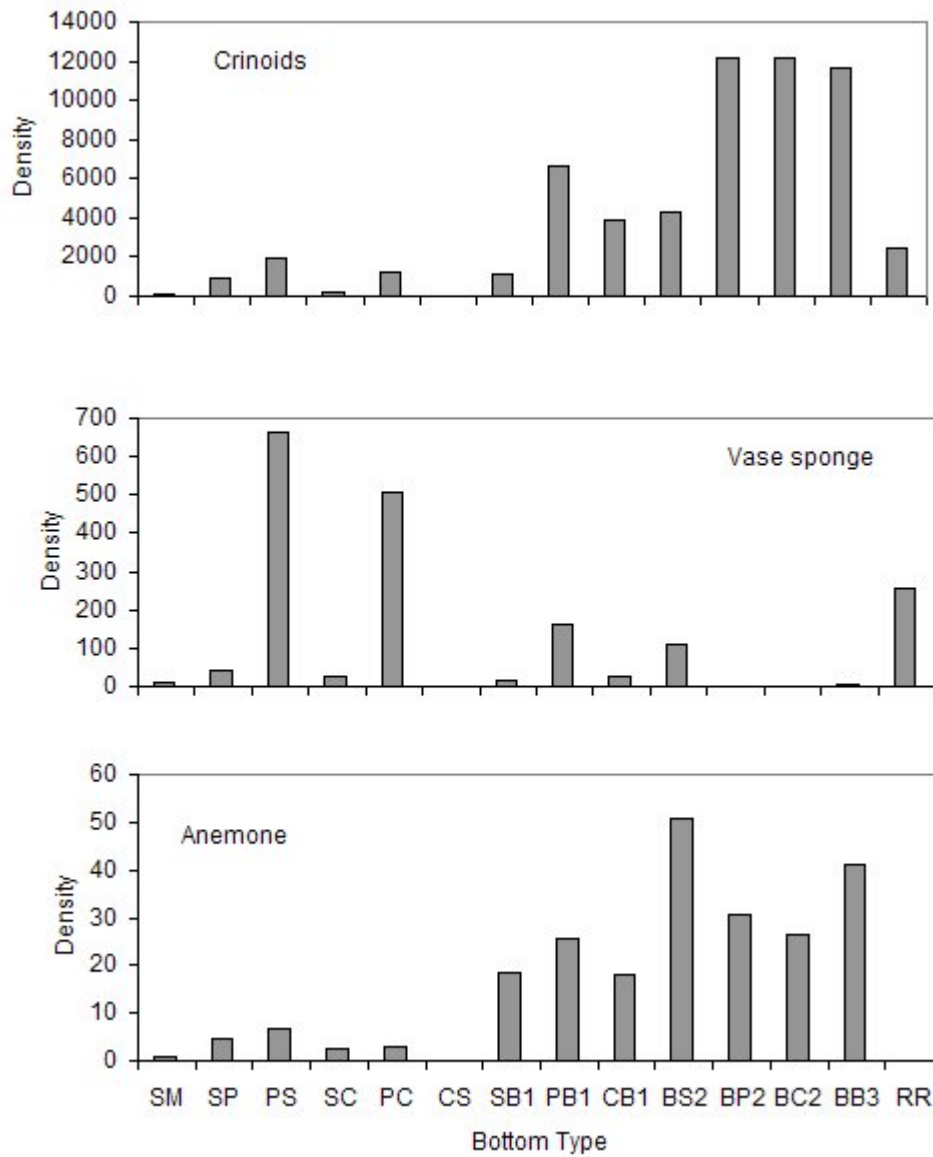


Figure 5. Crinoid, vase sponge, and anemone distribution. Plots are shown for invertebrate species/groups that occurred on several transects and in high abundance: crinoids (*Florometra serratissima*), vase sponge (Class Calcarea), and anemones (Order Actiniaria, includes several species). Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered boulder, 2 = contiguous boulder, and 3 = stacked boulder.

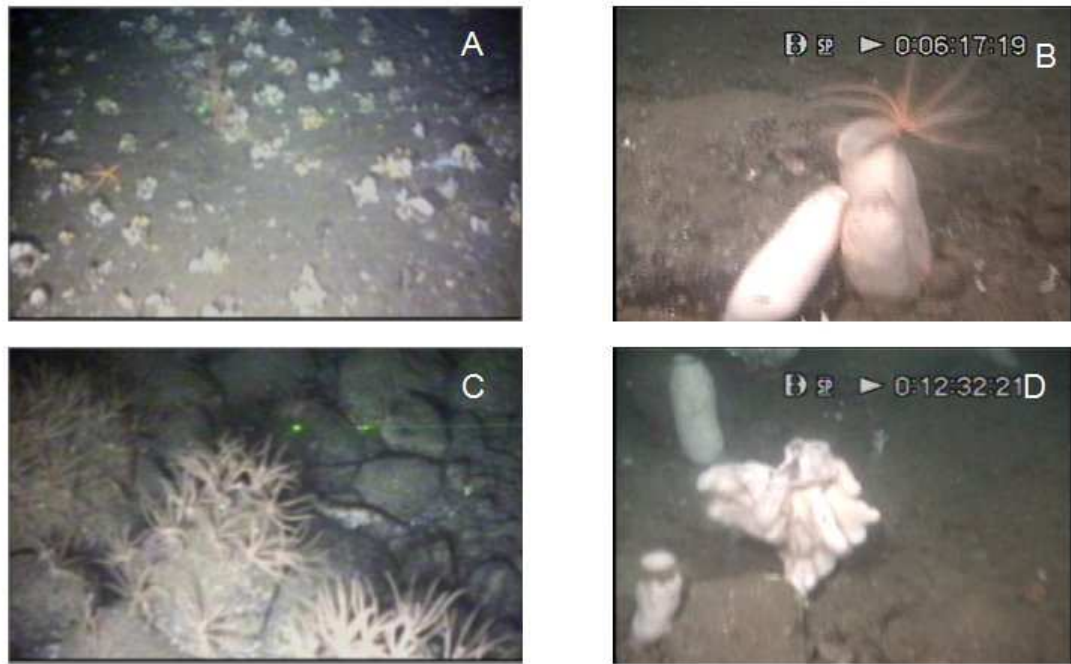


Figure 6. Frame grab images of invertebrates. A) Example of a sponge garden on hard bottom substrate with sediment layered on top. Sponge gardens were formed by cloud sponges, with a few small finger sponges and cup sponges. B) Vase sponge with a crinoid; C) crinoids attached to boulders; and D) large cloud sponge with large vase sponges.



Table 4. Species and common names of fish observed. The group name, species names, and common names for fish species observed on the August 2002 submersible survey are listed below.

Group	Species	Common name
Rockfish	<i>Sebastes paucispinus</i>	Bocaccio
	<i>Sebastes pinniger</i>	Canary rockfish
	<i>Sebastes chlorostictus</i>	Greenspotted rockfish
	<i>Sebastes elongatus</i>	Greenstripe rockfish
	<i>Sebastes alutus</i>	Pacific ocean perch
	<i>Sebastes maliger</i>	Quillback rockfish
	<i>Sebastes babcocki</i>	Redbanded rockfish
	<i>Sebastes proriger</i>	Redstripe rockfish
	<i>Sebastes helvomaculatus</i>	Rosethorn rockfish
	<i>Sebastes zacentrus</i>	Sharpchin rockfish
	<i>Sebastolobus alascanus</i>	Shortspine thornyhead
	<i>Sebastes brevispinis</i>	Silvergray rockfish
	<i>Sebastes nigrocinctus</i>	Tiger rockfish
	<i>Sebastes entomelas</i>	Widow rockfish
	<i>Sebastes ruberrimus</i>	Yelloweye rockfish
<i>Sebastes flavidus</i>	Yellowtail rockfish	
<i>Sebastes spp</i>	Unidentified rockfish	
Hexagrammids	<i>Hexagrammos spp</i>	Greenling
	<i>Ophiodon elongatus</i>	Lingcod
Flatfish	<i>Atheresthes stomias</i>	Arrowtooth flounder
	<i>Microstomus pacificus</i>	Dover sole
	<i>Hippoglossus stenolepis</i>	Halibut
	<i>Eopsetta jordani</i>	Petrale sole
	<i>Pleuronectiformes</i>	Unidentified flatfish
Skates	<i>Raja binoculata</i>	Big skate
	<i>Bathyraja kincaidi</i>	Black skate
	<i>Raja rhina</i>	Longnose skate
Other fish	<i>Clupea harengus</i>	Herring
	<i>Gadus macrocephalus</i>	Pacific cod
	<i>Eptatretus stouti</i>	Pacific hagfish
	<i>Theragra chalcogramma</i>	Pollock
	<i>Zaprora silenus</i>	Prowfish
	<i>Hydrolagus colliei</i>	Ratfish
	<i>Anoplopoma fimbria</i>	Sablefish
	<i>Squalus acanthias</i>	Spiny dogfish
<i>Anarrhichthys ocellatus</i>	Wolfeel	

Table 5. Summary of fish observations across all transects. The frequency of occurrence (percentage of transects where present), total counts across all transects (n = 50), percentage of total fish count, average density (number/ha) across all transects, and the %CV of the average density are listed.

Species	Frequency	Count	% of total count	Density	%CV
Unidentified rockfish	94	29263	74.524	1000.76	104.7
Greenstripe rockfish	94	1632	4.157	58.28	103.7
Rosethorn rockfish	82	2060	5.247	71.79	111.4
Canary rockfish	66	645	1.640	22.10	283.3
Redstripe rockfish	54	277	0.706	9.65	193.3
Yelloweye rockfish	48	59	0.150	2.02	140.3
Yellowtail rockfish	44	524	1.335	18.41	282.7
Sharpchin rockfish	40	187	0.476	6.27	249.6
Tiger rockfish	32	36	0.092	1.19	244.5
Silvergray rockfish	18	30	0.076	0.94	384.5
Widow rockfish	4	7	0.018	0.26	622.2
Quillback rockfish	4	2	0.005	0.06	494.9
Bocaccio	2	1	0.003	0.04	707.1
Greenspotted rockfish	2	1	0.003	0.03	707.1
Pacific ocean perch	2	52	0.132	1.97	707.1
Redbanded rockfish	2	4	0.010	0.15	707.1
Shortspine thornyhead	2	52	0.132	1.97	707.1
Lingcod	68	476	1.212	18.06	232.9
Greenling	34	41	0.104	1.46	159.9
Unidentified flatfish	98	2241	5.708	90.24	113.5
Dover sole	86	301	0.767	12.45	137.4
Halibut	70	186	0.474	6.25	158.9
Petrable sole	62	134	0.341	5.32	150.0
Arrowtooth flounder	16	20	0.051	0.81	357.0
Longnose skate	64	75	0.191	2.67	106.0
Black skate	42	48	0.122	1.80	211.0
Big skate	28	26	0.066	0.91	240.6
Ratfish	66	318	0.810	12.19	145.3
Pacific cod	60	127	0.323	4.71	135.1
Spiny dogfish	8	32	0.082	2.09	658.8
Pacific hagfish	8	37	0.094	1.23	444.5
Herring	4	283	0.721	7.72	703.8
Wolfeel	4	3	0.008	0.10	524.2
Pollock	2	84	0.214	5.83	707.1
Prowfish	2	1	0.003	0.04	707.1
Sablefish	2	1	0.003	0.04	707.1

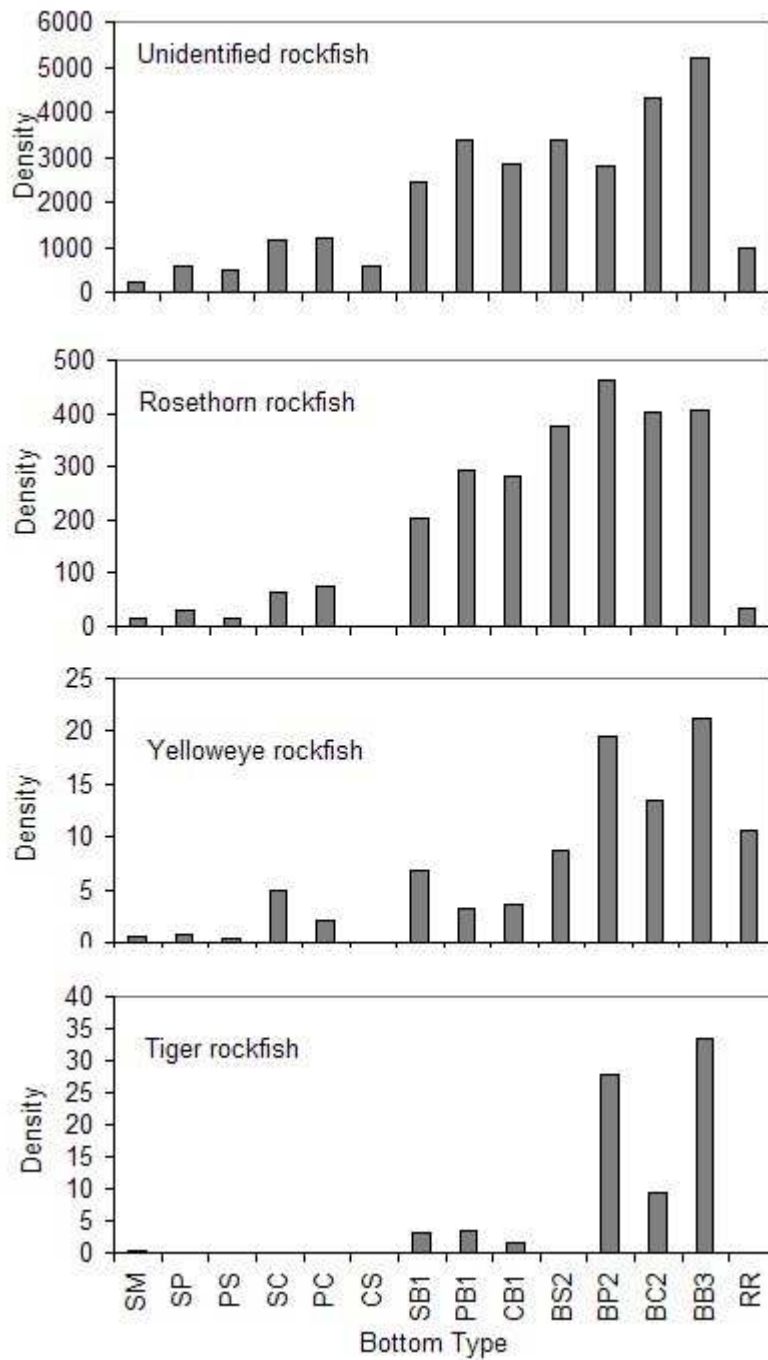


Figure 7. Unidentified, rosethorn, yelloweye, and tiger rockfish distributions. Plots of average density per hectare by bottom type for unidentified rockfish, rosethorn rockfish, yelloweye rockfish, and tiger rockfish. Bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

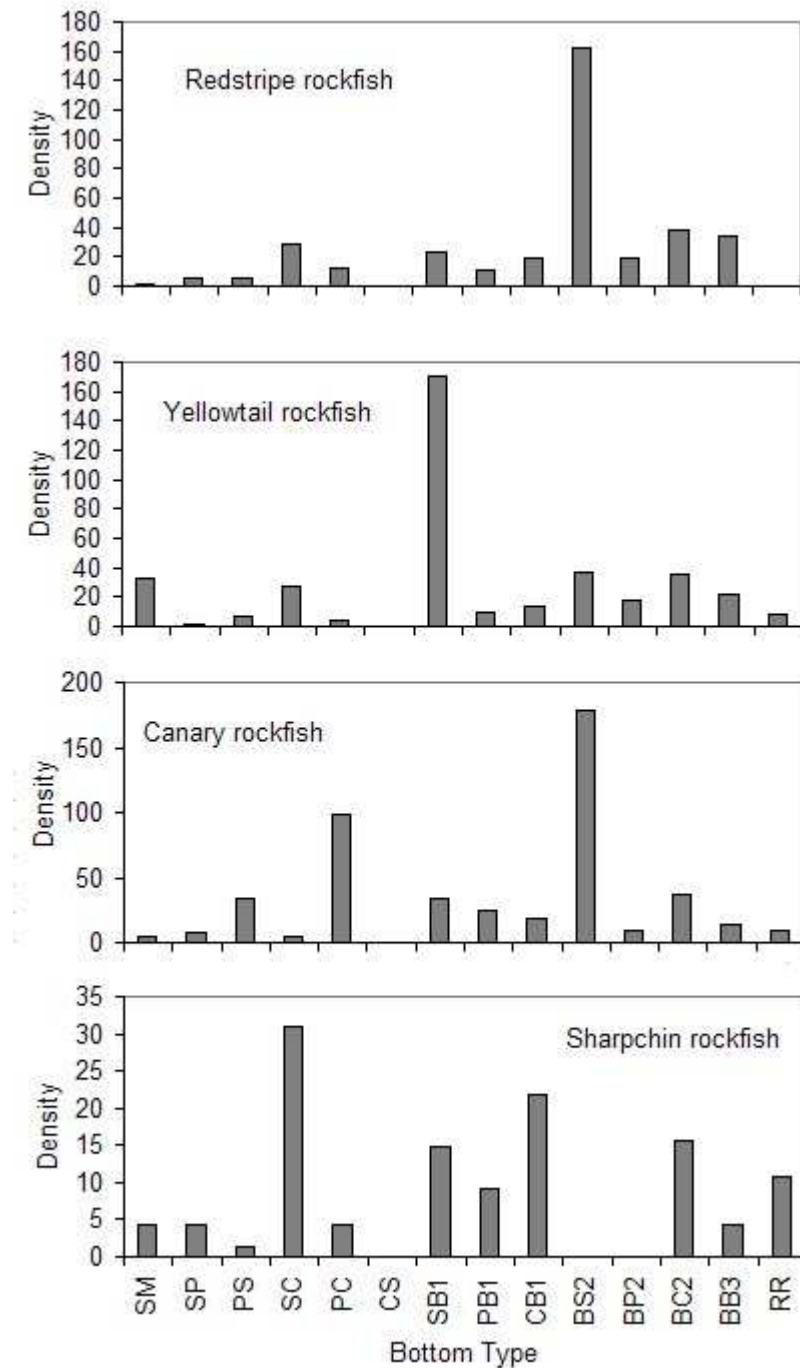


Figure 8. Redstripe, yellowtail, canary, and sharpchin rockfish distributions. Plots of average density per hectare by bottom type for redstripe rockfish, yellowtail rockfish, canary rockfish, and sharpchin rockfish. Bottom types are in order of increasing complexity and defined by the primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

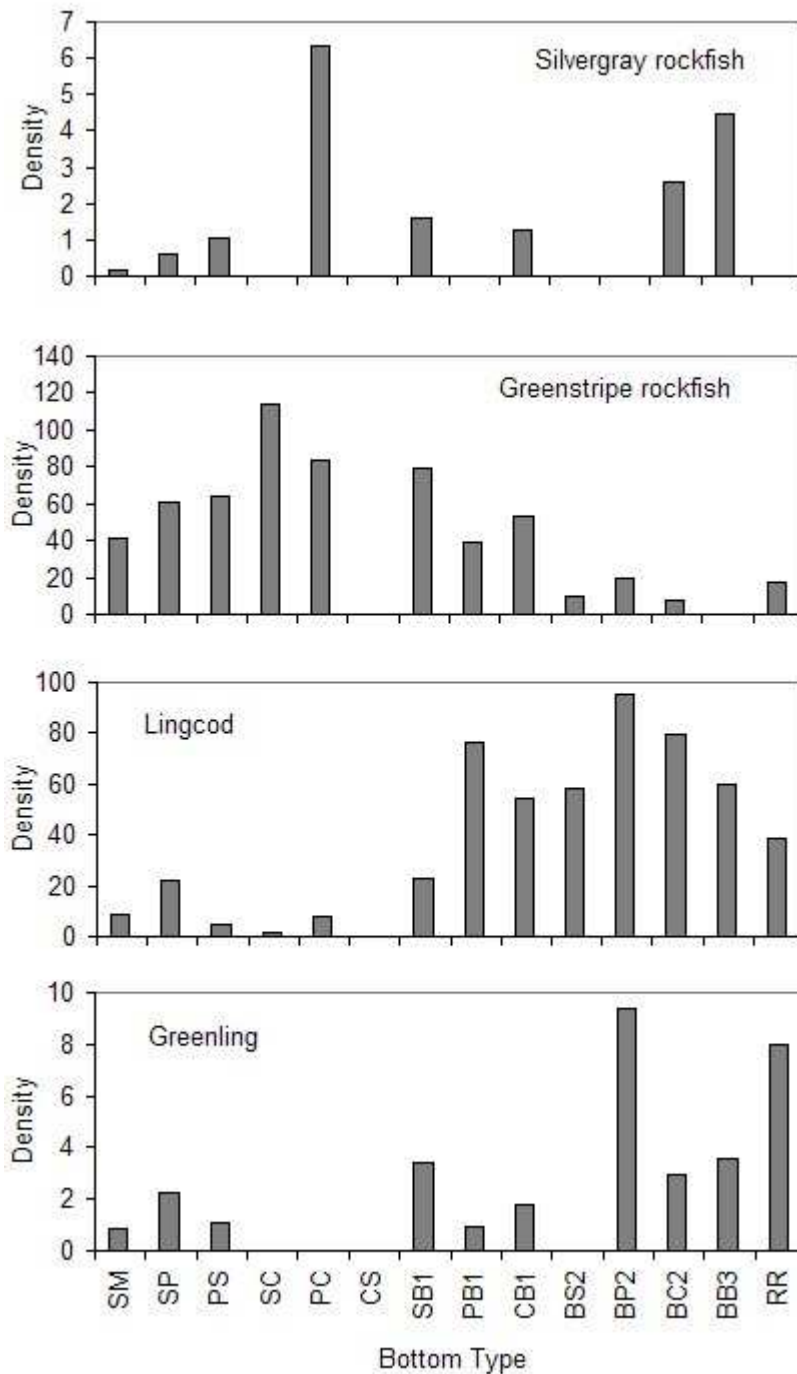


Figure 9. Silvergray and greenstripe rockfish, lingcod, and greenling distributions. Plots of average density per hectare by bottom type for silvergray rockfish, greenstripe rockfish, lingcod, and greenling. Bottom types are in order of increasing complexity and defined by the primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

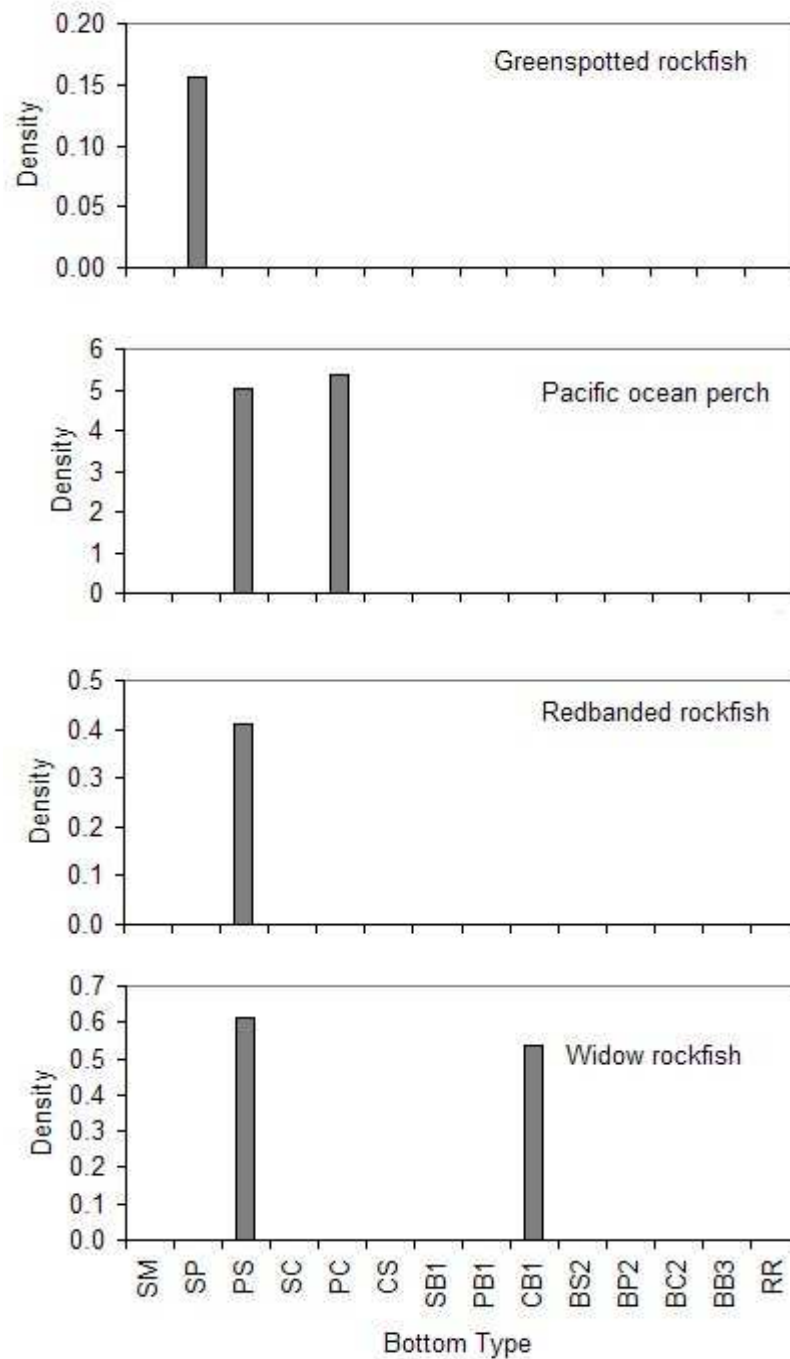


Figure 10. POP, greenspotted, redbanded, and widow rockfish distributions. Plots of average density per hectare by bottom type for greenspotted rockfish, Pacific ocean perch, redbanded rockfish, and widow rockfish. The bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

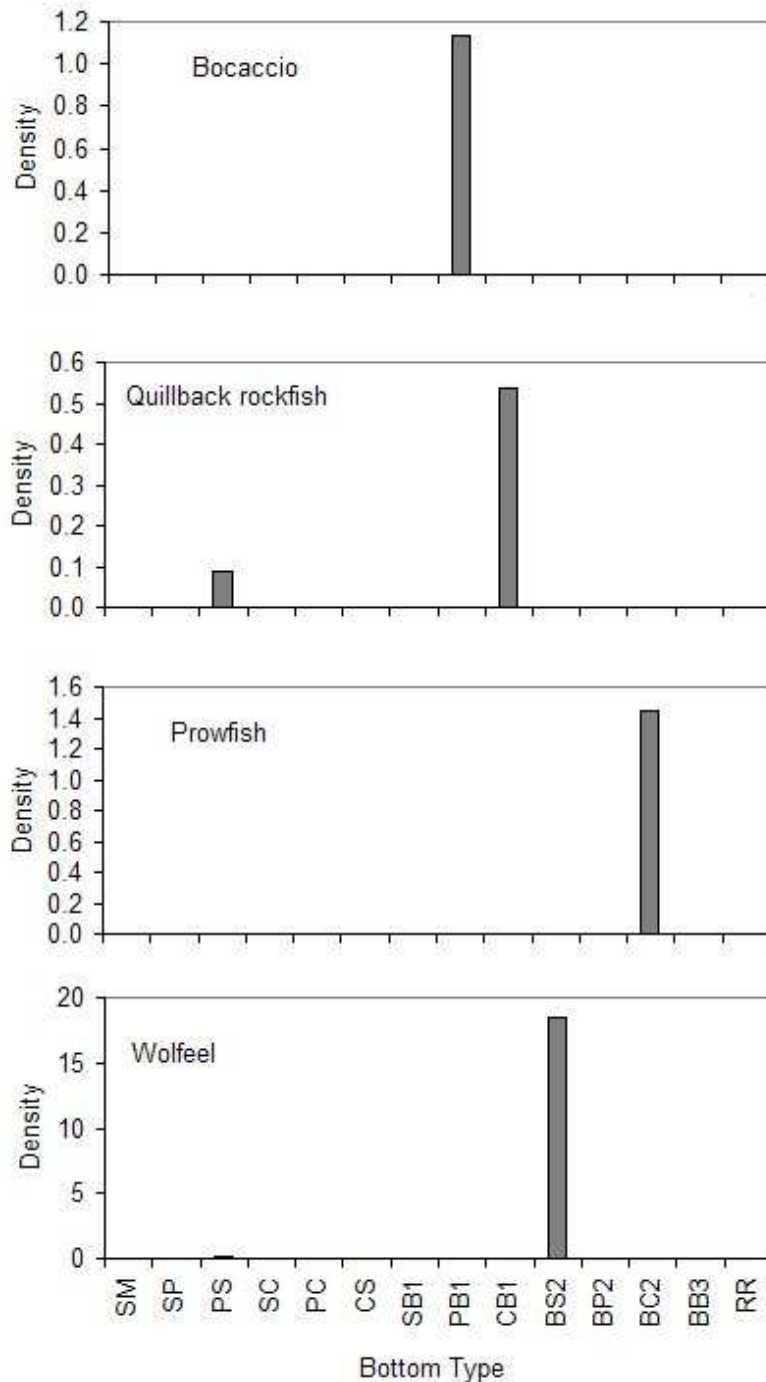


Figure 11. Bocaccio, quillback rockfish, prowfish, and wolfeel distributions. Plots of average density per hectare by bottom type for bocaccio, quillback rockfish, prowfish, and wolfeel. The bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

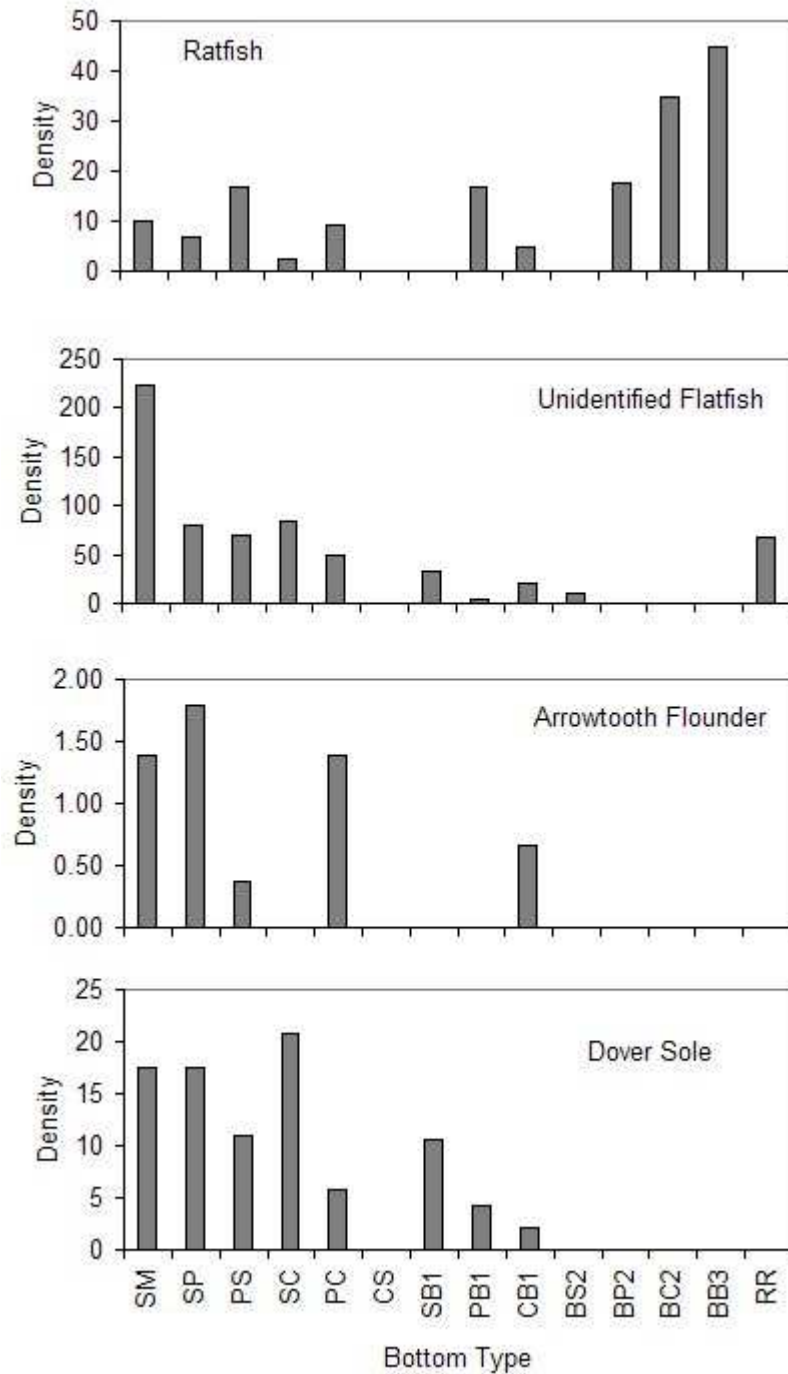


Figure 12. Ratfish and flatfish distributions. Plots of average density per hectare by bottom type for ratfish, unidentified flatfish, arrowtooth flounder, and dover sole. Bottom types are in order of increasing complexity and defined by the primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.



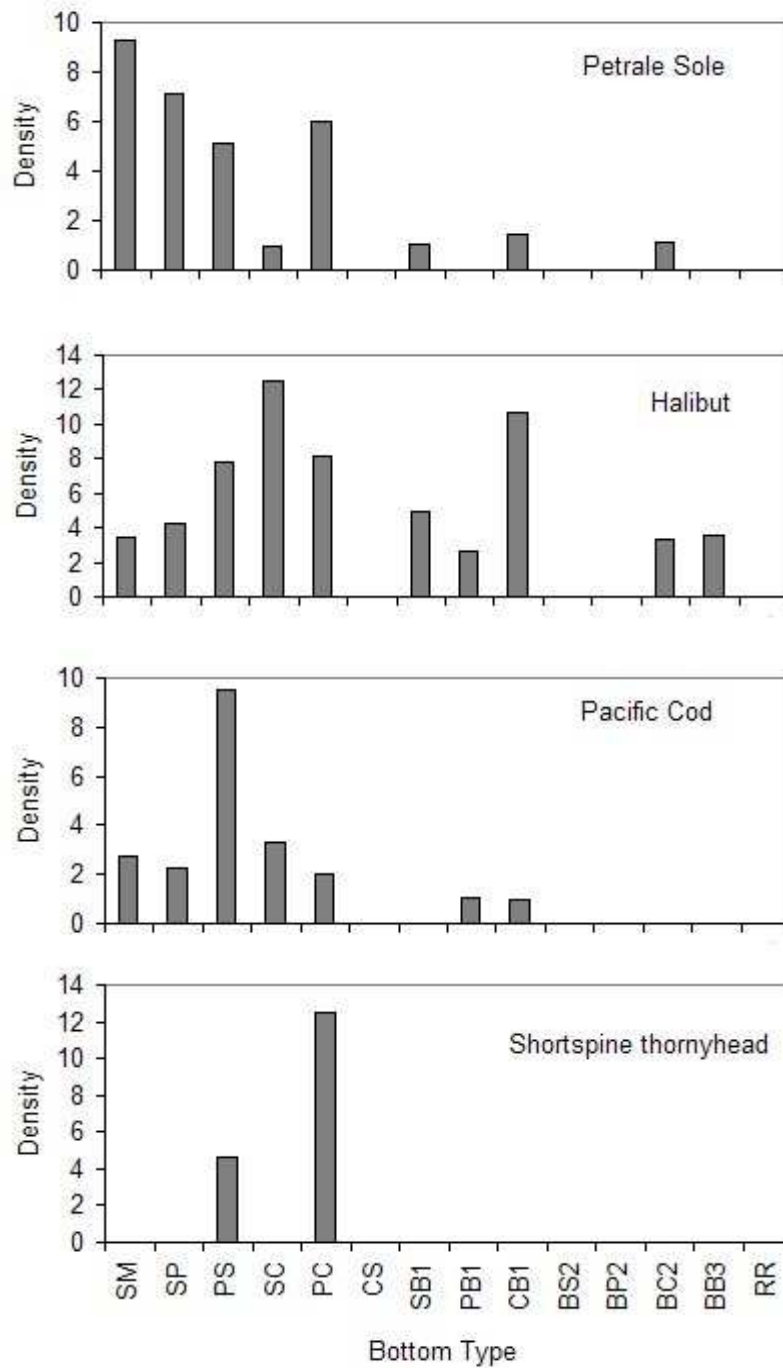


Figure 13. Petrale sole, halibut, cod, and shortspine thornyhead distributions. Plots of average density per hectare by bottom type for petrale sole, Pacific halibut, Pacific cod, and shortspine thornyhead. Bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

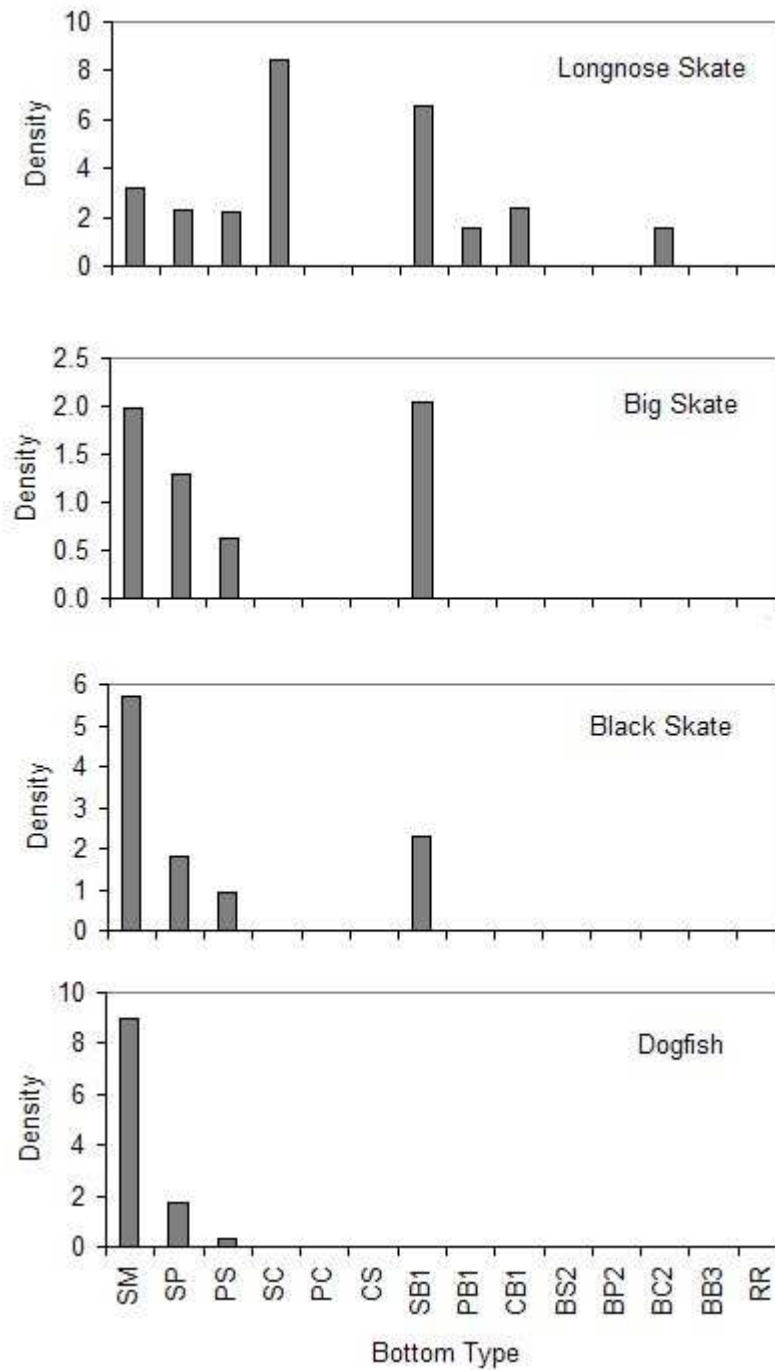


Figure 14. Longnose skate, big skate, black skate, and dogfish distributions. Plots of average density per hectare by bottom type for longnose skate, big skate, black skate, and spiny dogfish. The bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

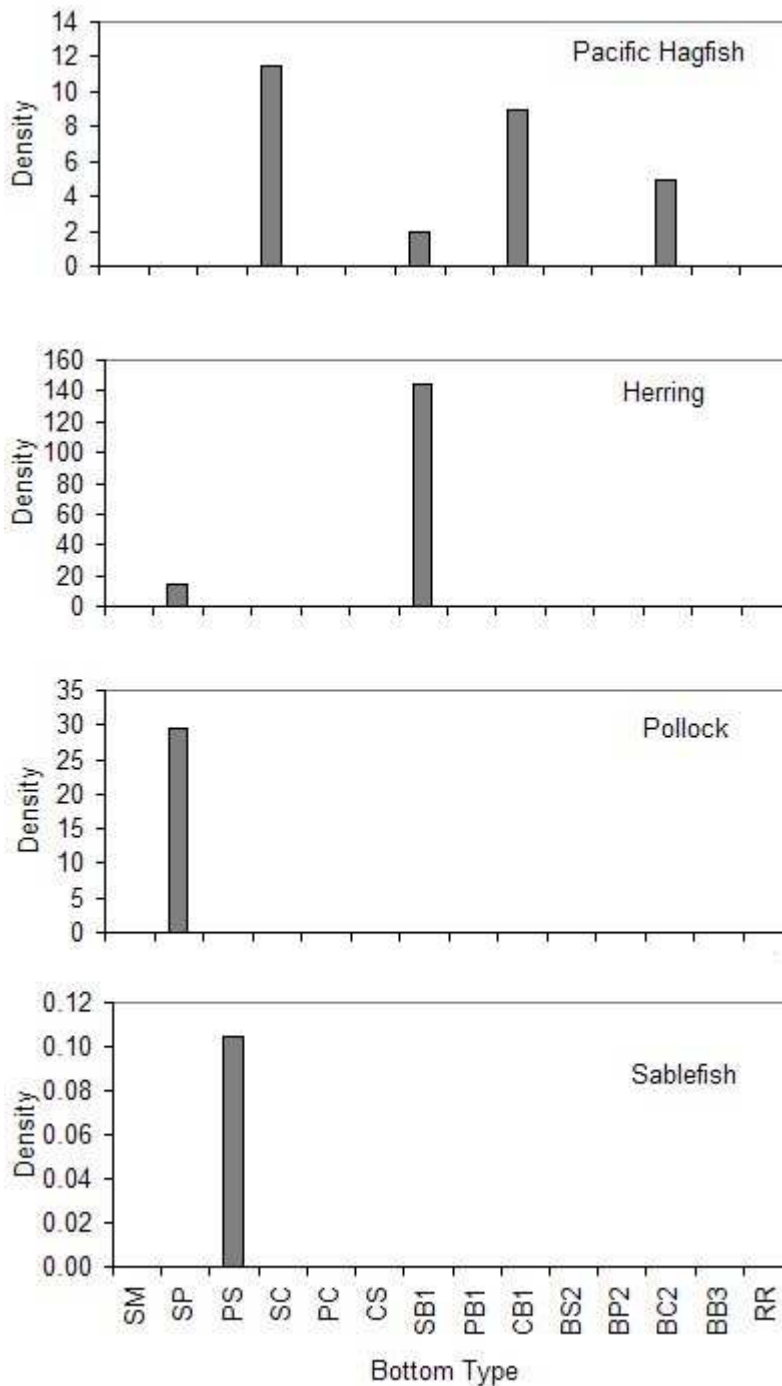


Figure 15. Hagfish, herring, Pollock, and sablefish distributions. Plots of average density per hectare by bottom type for Pacific hagfish, herring, walleye pollock, and sablefish. The bottom types are in order of increasing complexity and defined by primary and secondary substrates. Substrate codes are: M = mud, S = sand, P = pebble, C = cobble, B = boulder, R = ridge, 1 = scattered, 2 = contiguous, 3 = stacked. Note that the y-axis scale differs for each plot, but the x-axis scale is the same for each plot.

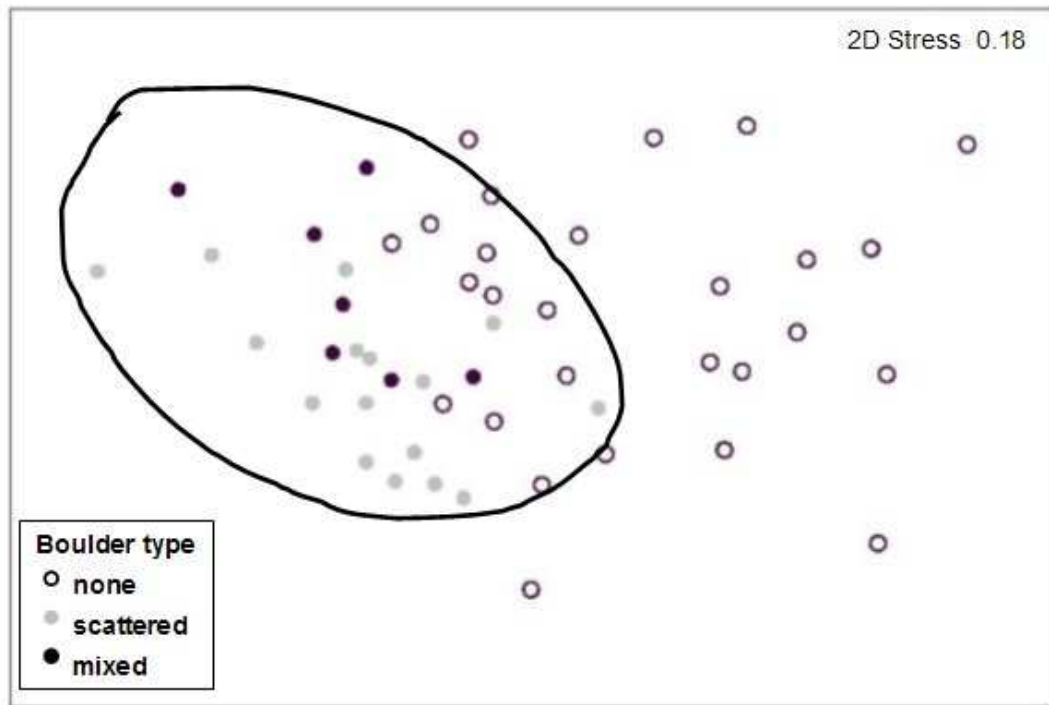


Figure 16. 2D MDS plot of transect-scale fish community data. Symbols representing the dominant boulder type for each sample (none = no boulders, scattered = scattered boulder, and mixed = scattered, contiguous, and stacked boulders) were plotted and showed that samples that group together by fish community may also be characterized by similar dominant boulder types. The plot indicates two major groups - samples that share similar fish communities and are associated with low relief substrates and samples that share similar fish communities and are associated with large proportions of boulder substrates. The hand-drawn circle highlights the grouping of samples characterized by scattered and mixed boulder substrates.

Table 6. Summary of ANOSIM pairwise tests for community analyses. Results for ANOSIM pairwise tests to examine where significant differences exist among groups defined *a priori*. Analyses were conducted at both the transect-scale and patch-scale. For each pair of groups compared, the R statistic and corresponding significance level are listed. For pairwise tests, the R statistic value is more informative than the significance level and indicates how different two groups are in their fish communities. Bottom type categories for the patch-scale analysis included: SM = sand-mud; SP = sand-pebble; PS = pebble-sand; B1 = scattered boulder; and B = mixed boulder.

Scale	Factor	Group 1	Group 2	R statistic	Significance
Transect	Boulder type	none	scattered	0.257	0.003
		none	mixed	0.203	0.029
		scattered	mixed	0.153	0.670
Patch	Bottom type	SM	SP	0.194	0.063
		SM	PS	0.271	0.028
		SM	B1	0.857	0.001
		SM	B	0.806	0.008
		SP	PS	-0.014	0.553
		SP	B1	0.466	0.001
		SP	B	0.056	0.283
		PS	B1	0.642	0.001
		PS	B	0.097	0.210
		B1	B	0.241	0.075

Table 7. Summary of community measures for community analyses. The average values for species richness (S), total density (per hectare), and the Shannon index for each habitat type and spatial scale are listed. The significance values from one-way ANOVA for each measure are also listed. The sample sizes for each scale are: Transect-scale, n = 50; patch-scale, n = 57.

Scale	Measure	Boulder type			p-value
		Low relief	Scattered	Mixed	
Transect	Species richness (S)	10.1	11.1	12.0	0.176
	Total density (per ha)	623.4	2750.8	1694.3	<0.001
	Shannon index (H')	1.38525	0.789483	0.8673	<0.001
Patch	Species richness (S)	2.5	2.9	2.8	0.509
	Total density (per ha)	678.5	3001.4	1363.0	<0.001
	Shannon index (H')	0.62	0.50	0.67	0.449

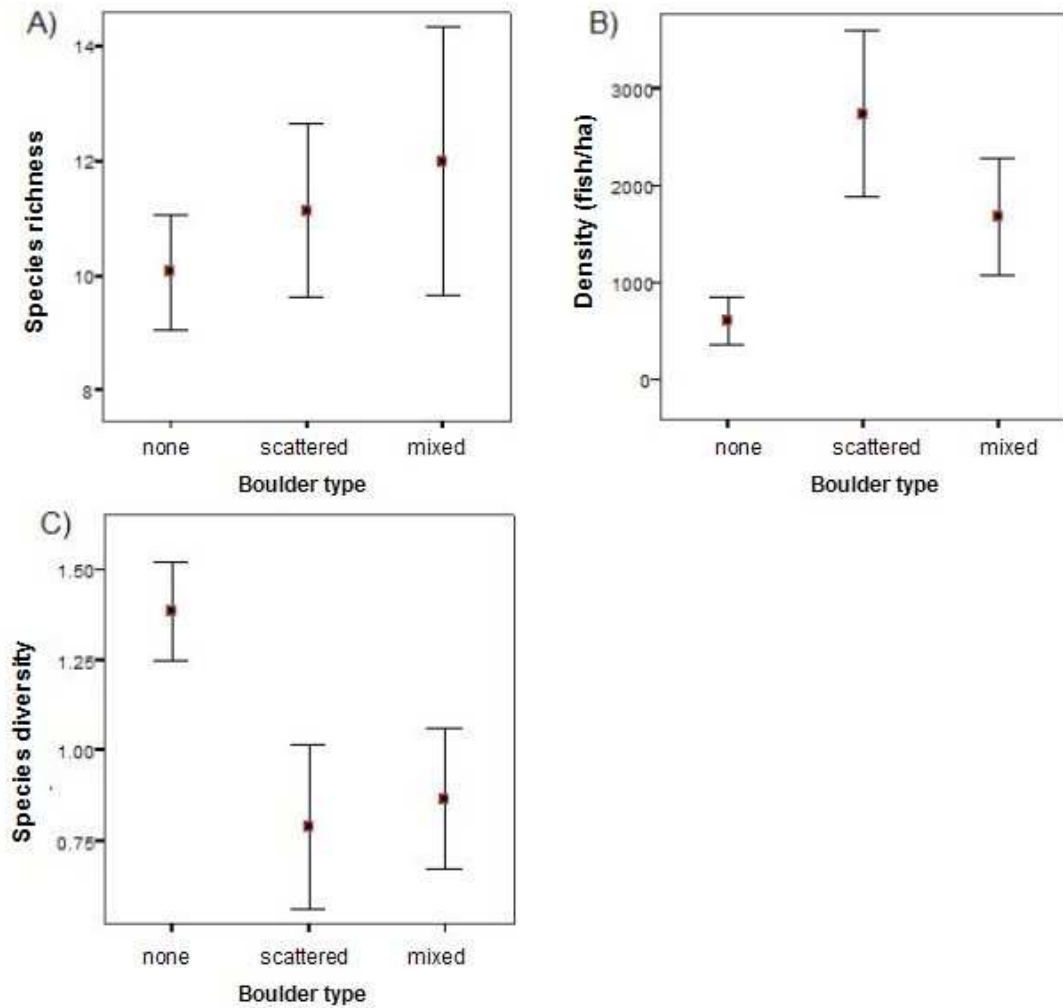


Figure 17. Species community measures for transect-scale analyses. Plots show the average value by boulder type (low relief, scattered, mixed) for A) species richness (S), defined as the number of species per transect; B) total density per hectare for all fish species; and C) Shannon index of diversity. The bars represent 95% confidence intervals around the average.

Table 8. SIMPER results for transect-scale community analysis. Results of SIMPER analysis for species contributing to the dissimilarity between low relief, scattered, and mixed transects (n=50). T. Diss = total dissimilarity; Av. Dens. = average density; Av. Diss = average contribution to the total dissimilarity; Diss/SD = average contribution to the total dissimilarity/standard deviation of the average contribution; Contrib% = percent contribution to the total dissimilarity.

Bottom types	T. Diss.	Species	Av. Dens.	Av. Dens.	Av.Diss	Diss/SD	Contrib%
			Low Relief	Scattered			
Low relief vs Scattered boulder	50.98	Unidentified rockfish	3.1	6.6	7.6	1.6	14.8
		Rosethorn rockfish	1.3	3.4	4.5	1.5	8.8
		Canary rockfish	0.7	1.7	2.9	1.2	5.7
		Unidentified flatfish	3.1	2.0	2.9	1.3	5.7
		Lingcod	1.0	1.4	2.6	1.1	5.1
		Yellowtail rockfish	0.7	1.1	2.5	1.0	4.8
		Greenstripe rockfish	2.3	2.7	2.3	1.2	4.5
		Redstripe rockfish	0.5	1.1	2.3	1.1	4.4
		Petrals sole	1.1	0.4	2.2	1.3	4.3
		Dover sole	1.6	1.1	2.2	1.2	4.3
		Sharpchin rockfish	0.2	1.1	2.1	1.0	4.1
		Ratfish	1.0	0.7	2.1	1.1	4.0
		Pacific cod	1.0	0.7	2.0	1.1	3.8
		Halibut	0.8	0.8	1.9	1.1	3.7
		Yelloweye rockfish	0.2	0.9	1.7	1.1	3.4
		Longnose skate	0.7	0.9	1.7	1.1	3.3
		Black skate	0.7	0.0	1.3	0.9	2.6
		Tiger rockfish	0.2	0.4	0.9	0.7	1.8
		Greenling	0.4	0.2	0.9	0.6	1.8
			Low Relief	Mixed			
Low relief vs. Mixed boulder	51.74	Unidentified rockfish	3.1	6.0	6.2	1.5	11.9
		Rosethorn rockfish	1.3	3.2	4.1	1.4	8.0
		Canary rockfish	0.7	1.9	3.1	1.4	6.0
		Yellowtail rockfish	0.7	1.6	3.1	1.4	5.9
		Unidentified flatfish	3.1	1.9	3.0	1.3	5.8
		Greenstripe rockfish	2.3	1.2	3.0	1.3	5.8
		Lingcod	1.0	2.0	2.8	1.4	5.4
		Redstripe rockfish	0.5	1.3	2.5	1.1	4.8
		Ratfish	1.0	1.2	2.3	1.2	4.5
		Dover sole	1.6	0.9	2.3	1.3	4.4
		Halibut	0.8	1.3	2.1	1.2	4.1
		Pacific cod	1.0	0.5	2.0	1.1	3.8
		Petrals sole	1.1	0.8	1.8	1.1	3.4
		Sharpchin rockfish	0.2	0.9	1.8	0.9	3.4
		Yelloweye rockfish	0.2	0.9	1.7	1.1	3.3
		Greenling	0.4	0.7	1.6	0.9	3.0
		Black skate	0.7	0.5	1.6	1.0	3.0
		Longnose skate	0.7	0.3	1.5	1.0	2.9
		Tiger rockfish	0.2	0.5	1.2	0.7	2.3



Table 8 continued. SIMPER results for transect-scale community analysis. Results of SIMPER analysis for species contributing to the dissimilarity between low relief, scattered, and mixed transects (n=50). T. Diss = total dissimilarity; Av. Dens. = average density; Av. Diss = average contribution to the total dissimilarity; Diss/SD = average contribution to the total dissimilarity/standard deviation of the average contribution; Contrib% = percent contribution to the total dissimilarity.

Bottom types	T. Diss.	Species	Av. Dens.		Av. Diss	Diss/SD	Contrib%
			Scattered	Mixed			
Scattered boulder vs. Mixed boulder	38.94	Greenstripe rockfish	2.7	1.2	3.2	1.4	8.1
		Lingcod	1.4	2.0	2.6	1.3	6.6
		Yellowtail rockfish	1.1	1.6	2.6	1.4	6.6
		Canary rockfish	1.7	1.9	2.4	1.2	6.1
		Redstripe rockfish	1.1	1.3	2.3	1.2	5.9
		Unidentified flatfish	2.0	1.9	2.2	1.2	5.7
		Unidentified rockfish	6.6	6.0	2.1	1.4	5.5
		Sharpchin rockfish	1.1	0.9	2.1	1.2	5.4
		Ratfish	0.7	1.2	2.0	1.3	5.2
		Halibut	0.8	1.3	1.9	1.2	4.9
		Longnose skate	0.9	0.3	1.7	1.3	4.4
		Dover sole	1.1	0.9	1.6	1.2	4.0
		Pacific cod	0.7	0.5	1.5	1.0	3.9
		Petrale sole	0.4	0.8	1.5	1.2	3.9
		Yelloweye rockfish	0.9	0.9	1.5	1.1	3.8
		Greenling	0.2	0.7	1.3	0.9	3.4
		Rosethorn	3.4	3.2	1.3	1.3	3.2
		Tiger rockfish	0.4	0.5	1.2	0.8	3.0
Big skate	0.3	0.4	0.9	0.8	2.2		

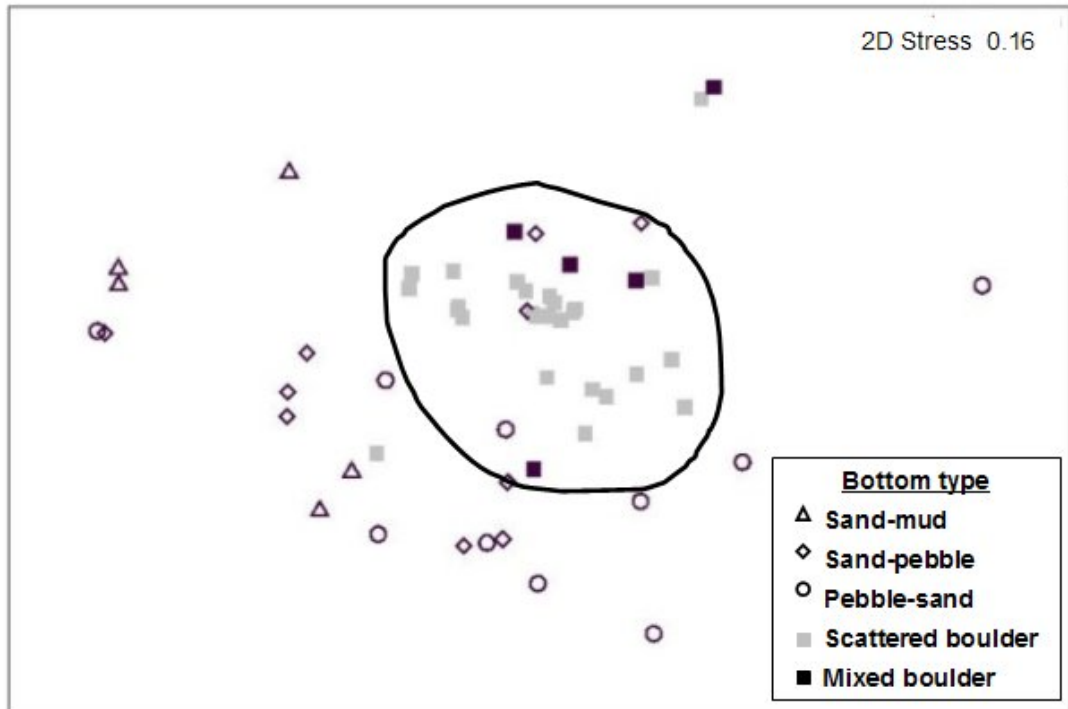


Figure 18. 2D MDS plot of patch-scale fish community data. Two-dimensional MDS plot for fish community patch-scale data, using patches of 100 to 120 m<sup>2</sup> as the sample units. The symbols represent the different levels for the factor bottom type. These symbols were overlaid on top of the sample points, based on the bottom type with which the sample was associated. Samples associated with scattered boulder and mixed boulder substrates grouped together (highlighted by the hand-drawn circle), indicating that patches of scattered and mixed boulder shared similar fish communities.

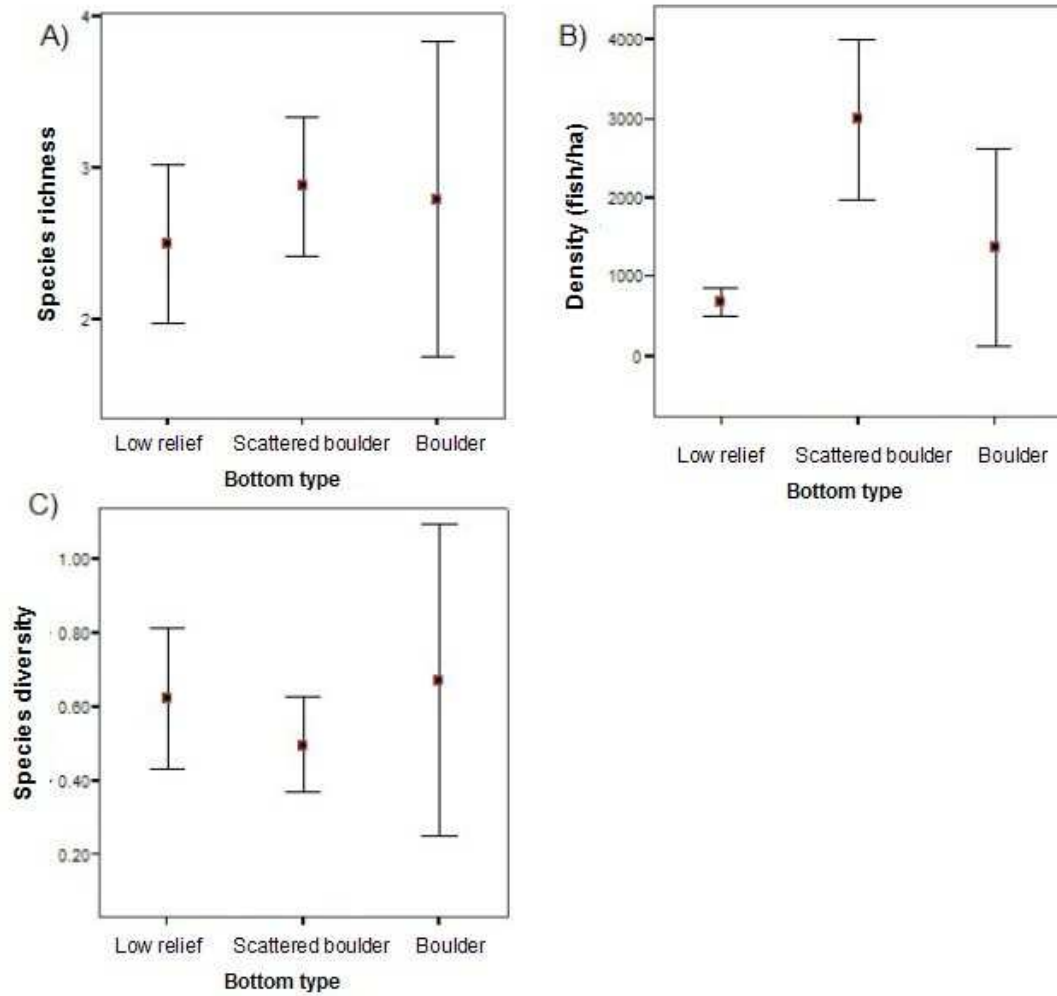


Figure 19. Species community measures for patch-scale analyses. Plots show the average value by boulder type (low relief, scattered boulder, boulder) for A) species richness (S), defined as the number of species per patch; B) total density per hectare for all fish species; and C) the Shannon index of diversity. The bars represent 95% confidence intervals about the average.

Table 9. SIMPER results for patch-scale community analysis. Results of SIMPER analysis for species contributing to dissimilarity between low relief, scattered, and mixed patches (n=57). T. Diss = total dissimilarity; Av. Dens. = average density; Av. Diss = average contribution to total dissimilarity; Diss/SD = average contribution to total dissimilarity/standard deviation of average contribution; Contrib% = percent contribution to the total dissimilarity.

Bottom types	T. Diss.	Species	Av. Dens	Av. Dens	Av. Diss	Diss/SD	Contrib%
			Low Relief	Scattered			
Low Relief vs. Scattered boulder	63.12	Unidentified rockfish	3.3	6.5	17.0	1.2	26.9
		Rosethorn rockfish	0.6	3.3	13.6	1.6	21.6
		Unidentified flatfish	1.9	0.9	9.2	0.9	14.6
		Greenstripe rockfish	1.1	0.8	5.7	0.8	9.0
		Lingcod	0.5	0.5	3.6	0.6	5.8
		Canary rockfish	0.6	0.1	2.6	0.4	4.1
		Ratfish	0.3	0.2	1.7	0.4	2.6
		Halibut	0.4	0.0	1.6	0.4	2.5
		Sharpchin rockfish	0.1	0.3	1.4	0.4	2.2
		Black skate	0.3	0.0	1.0	0.3	1.6
			Low Relief	Mixed			
Low Relief vs. Mixed boulder	69.33	Unidentified rockfish	3.3	4.7	14.9	1.1	21.5
		Rosethorn rockfish	0.6	2.9	13.1	1.5	18.9
		Unidentified flatfish	1.9	0.0	9.8	0.8	14.1
		Lingcod	0.5	1.2	7.1	0.8	10.2
		Greenstripe rockfish	1.1	0.6	6.2	0.8	8.9
		Halibut	0.4	0.7	4.6	0.6	6.7
		Ratfish	0.3	0.6	3.2	0.6	4.7
		Redstripe rockfish	0.0	0.6	2.7	0.5	3.9
		Canary rockfish	0.6	0.0	2.3	0.4	3.3
			Scattered	Mixed			
Scattered boulder vs. Mixed boulder	44.46	Unidentified rockfish	6.5	4.7	12.8	1.0	28.8
		Rosethorn rockfish	3.3	2.9	6.3	1.0	14.2
		Lingcod	0.5	1.2	6.0	0.8	13.6
		Greenstripe rockfish	0.8	0.6	4.3	0.7	9.7
		Unidentified flatfish	0.9	0.0	3.6	0.6	8.1
		Halibut	0.0	0.7	3.1	0.5	6.9
		Ratfish	0.2	0.6	2.7	0.6	6.1
		Redstripe rockfish	0.1	0.6	2.6	0.5	5.8

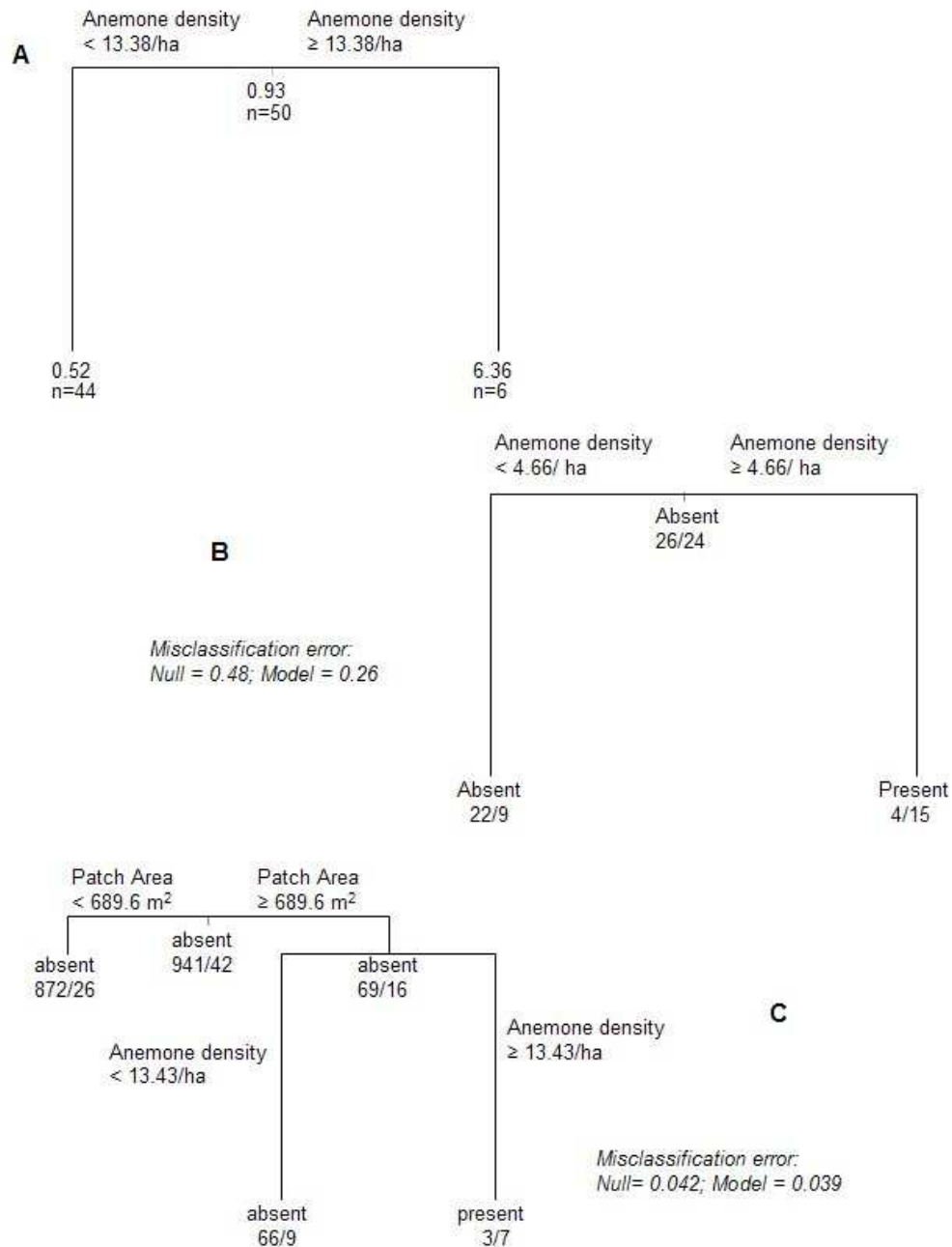


Figure 20. Classification and regression trees for yelloweye rockfish. Regression trees are labeled with the splitting rule, mean density value, and number of samples at each leaf. Classification trees are labeled with the splitting rule, the dominant category (present or absent), and the number of samples per category (“absent” on the left and “present” on the right). A) Regression tree for yelloweye rockfish density at the transect-level. B) Classification tree for yelloweye rockfish presence at transect-level. C) Classification tree for yelloweye rockfish presence at the patch-level.

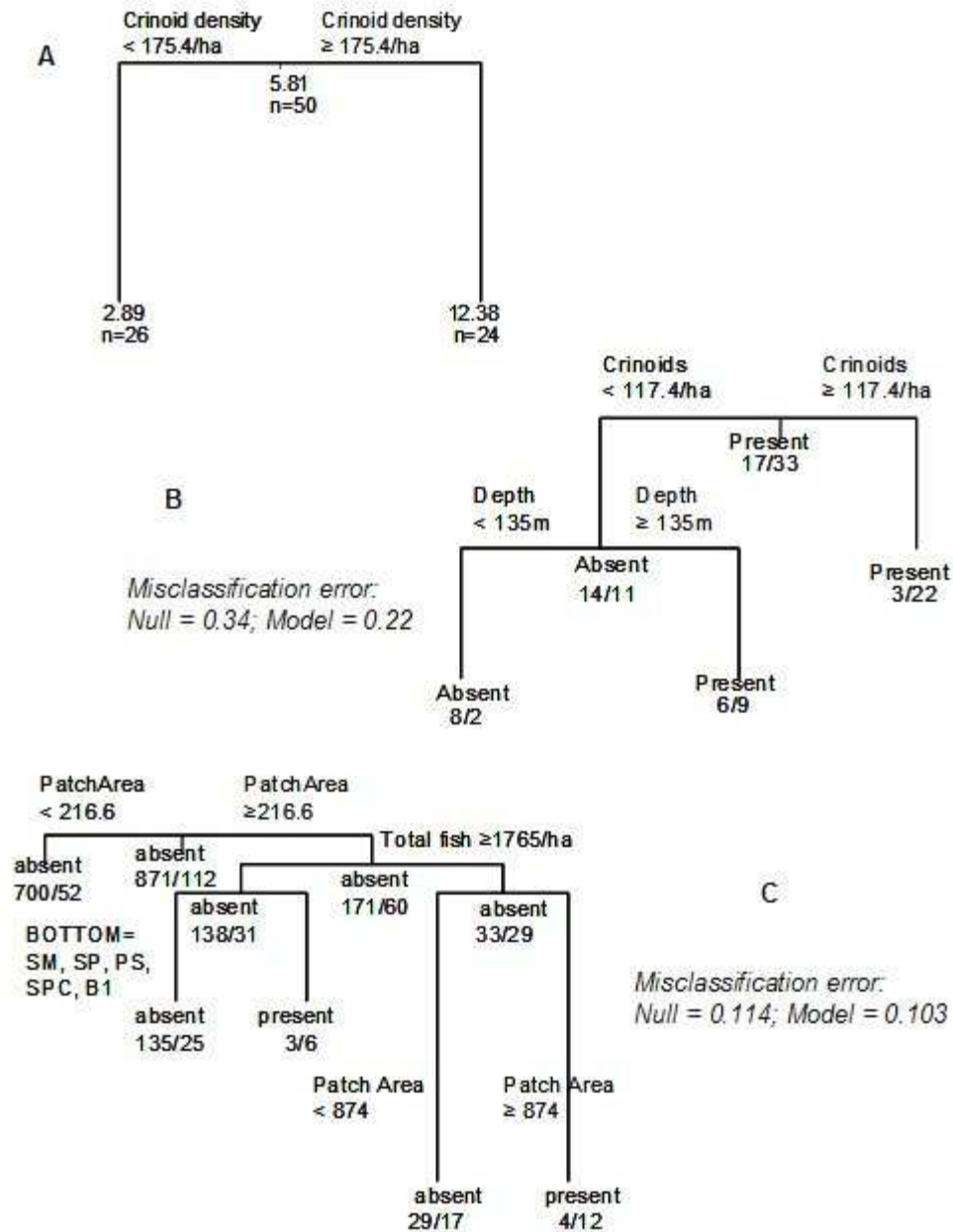


Figure 21. Classification and regression trees for canary rockfish. Trees were fitted to examine associations with habitat features. A) Regression tree for canary rockfish density on transects is labeled with the mean density values and number of observations at each node. B) Classification tree for canary rockfish presence in transects. Nodes are labeled with the dominant category and the ratio of absent / present observations. C) Classification tree for canary rockfish presence in patches.

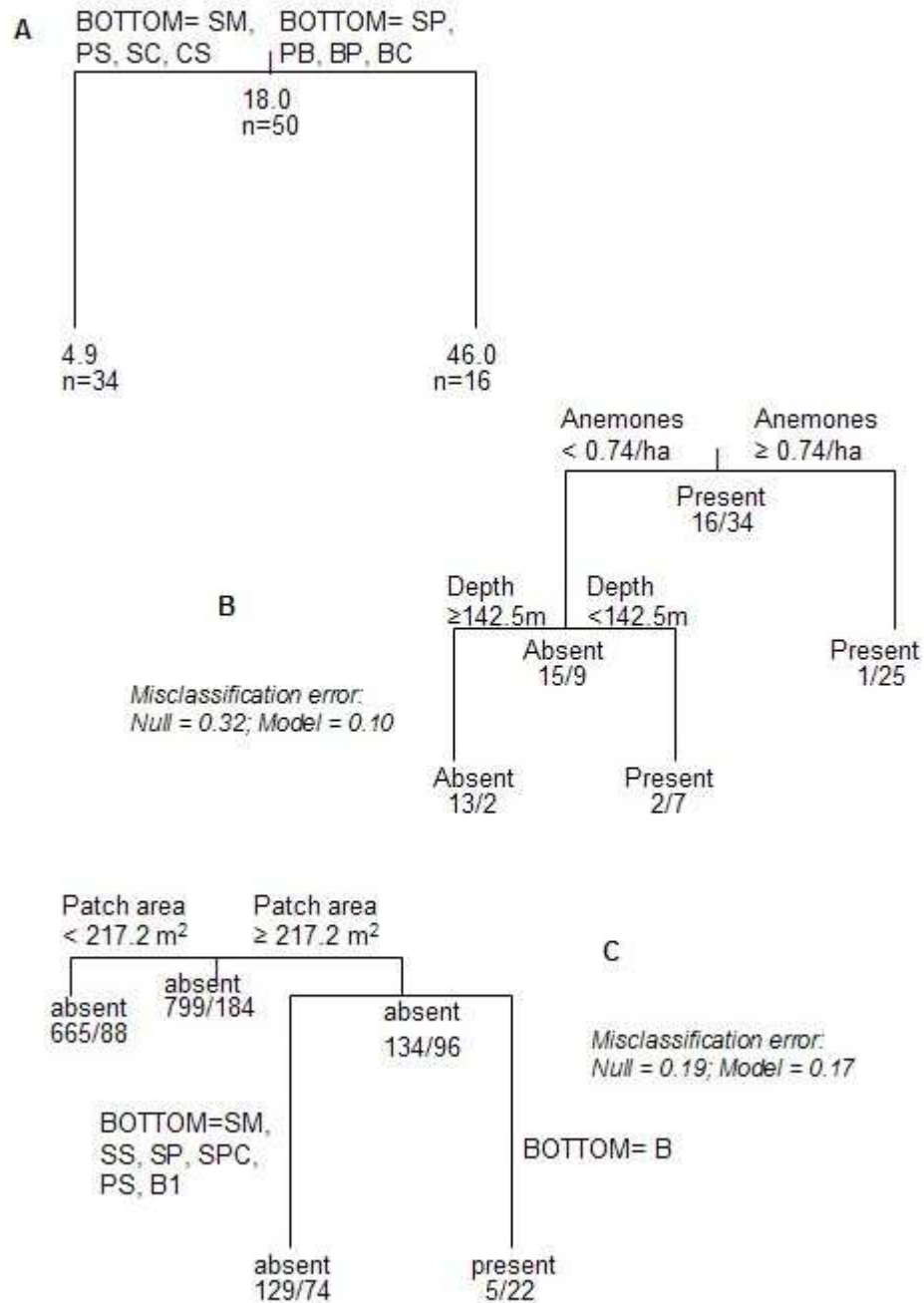


Figure 22. Classification and regression trees for lingcod. A) Regression tree for lingcod density on transects. Each node is labeled with the mean density and number of observations. B) Classification tree for lingcod presence on transects. Nodes are labeled with the dominant category and the ratio of absent/present observations. C) Classification tree for lingcod presence in patches. Patch area and bottom type (= boulder) were the best predictors for lingcod presence.

Table 10. Comparison of habitat attributes for occupied vs. unoccupied transects. The average depth (in m) and average densities (number per hectare) of invertebrate species and groups are listed and compared among transects where yelloweye rockfish, canary rockfish, and lingcod were absent and transects where these species were present. The coefficients of variation are also listed for each average value. Averages that are significantly different (based on a two sample t-test) are in bold and italicized. Samples sizes for each category: Yelloweye rockfish: absent, n = 26; present, n = 24; Canary rockfish: absent, n = 17; present, n = 33; Lingcod: absent = 16; present = 34.

Predictor variables	Yelloweye rockfish				Canary rockfish				Lingcod			
	Absent		Present		Absent		Present		Absent		Present	
	Average	CV	Average	CV	Average	CV	Average	CV	Average	CV	Average	CV
Depth (m)	141.3	0.20	128.4	0.15	131.1	0.16	137.2	0.19	<b>155.1</b>	0.17	<b>125.7</b>	0.14
Orange sea pen	0.0		0.2	3.50	0.2	4.12	0.1	5.74	0.0		0.2	4.19
White sea pen	<b>338.5</b>	2.59	<b>60.8</b>	3.47	407.0	2.62	101.3	2.40	514.9	2.12	59.5	3.05
Sea whip	1.1	3.97	0.2	3.57	1.4	3.55	0.3	4.69	1.3	4.00	0.4	3.74
Crinoids	<b>1505.7</b>	2.26	<b>2605.6</b>	1.12	<b>574.1</b>	2.43	<b>2785.6</b>	1.29	<b>987.1</b>	2.50	<b>2526.2</b>	1.35
Finger sponge	<b>296.8</b>	2.27	<b>9.6</b>	2.56	180.9	2.51	147.6	3.60	256.9	2.54	112.8	3.70
Cloud sponge	166.3	2.06	447.5	2.29	272.1	1.57	316.3	2.80	170.8	1.93	362.7	2.45
Vase sponge	372.8	2.49	186.3	4.68	181.5	3.90	335.7	2.94	549.1	2.37	158.2	3.87
Cup sponge	0.7	3.31	0.6	3.02	0.2	4.12	0.9	2.83	1.0	3.12	0.5	3.05
Basket sponge	0.4	4.06	1.2	2.18	0.6	3.28	0.9	2.61	1.1	2.39	0.6	3.07
Sheet sponge	0.0		6.6	3.42	0.0		4.8	4.03	0.0		4.7	4.10
Anemones	<b>2.0</b>	1.92	<b>14.2</b>	1.83	2.5	1.63	10.6	2.17	<b>0.7</b>	4.00	<b>11.2</b>	2.00
Basket star	0.0		0.4	3.36	0.0		0.3	3.96	0.0		0.3	4.02



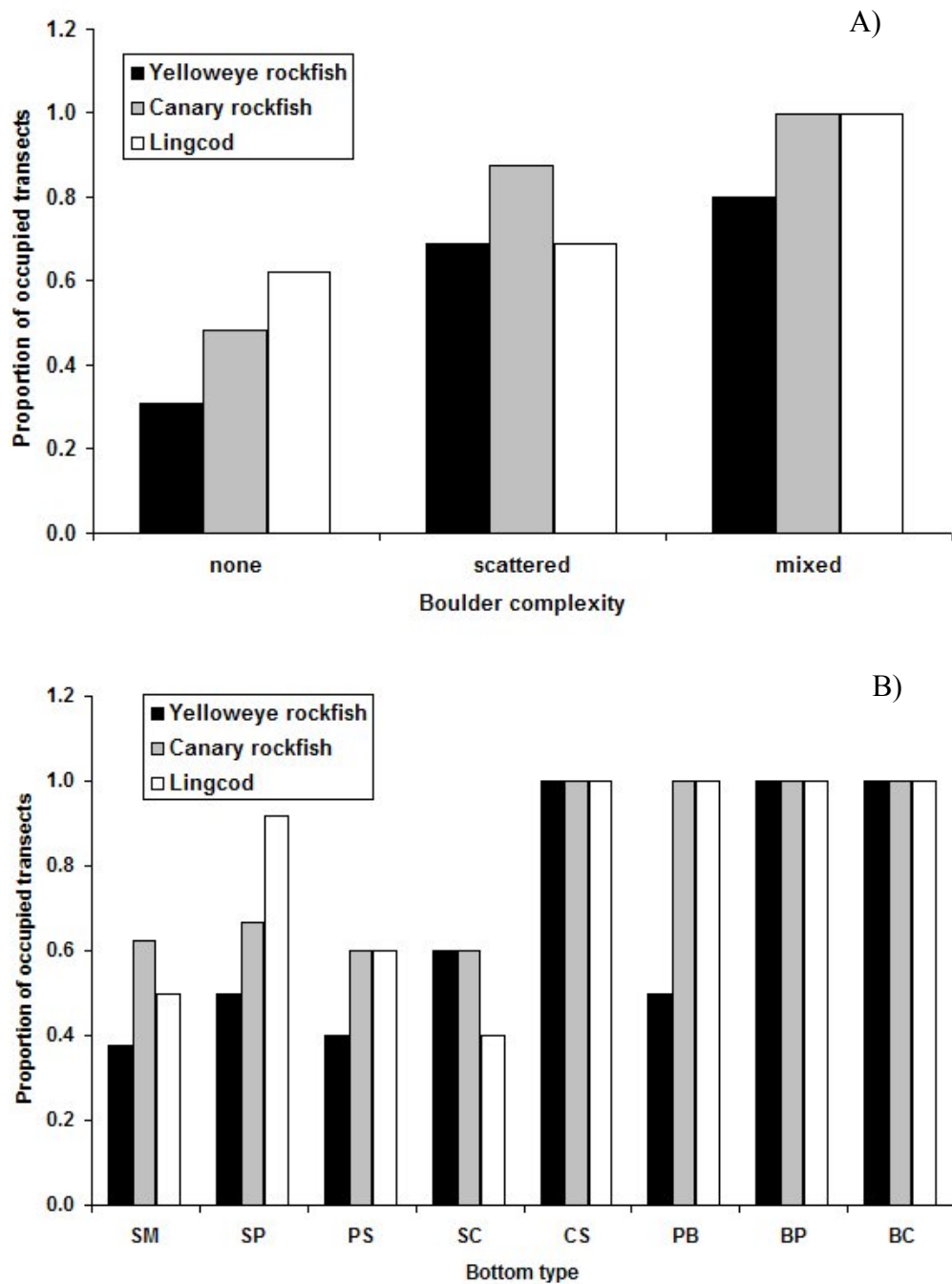


Figure 23. Proportion of transects occupied for single-species analyses. Bars represent the proportion of transects occupied by yelloweye rockfish, canary rockfish, and lingcod by (A) boulder complexity and (B) bottom type. Boulder complexity categories include: none,  $n = 29$ ; scattered,  $n = 16$ ; mixed,  $n = 5$ . Bottom type categories include: SM = sand-mud,  $n = 8$ ; SP = sand-pebble,  $n = 12$ ; PS = pebble-sand,  $n = 20$ ; SC = sand-cobble,  $n = 5$ ; CS = cobble-sand,  $n = 1$ ; PB = pebble-boulder,  $n = 2$ ; BP = boulder-pebble,  $n = 1$ ; BC = boulder-cobble,  $n = 1$ .

Table 11. Comparison of habitat attributes for occupied vs. unoccupied patches. The average patch area (in m<sup>2</sup>) and average densities (number per hectare) of invertebrate species and groups are listed and compared among patches where yelloweye rockfish, canary rockfish, and lingcod were absent and patches where these species were present. The coefficients of variation are also listed for each average value. Averages that were significantly different (based on a two sample t-test) are in bold and italicized. Samples sizes for each category: Yelloweye rockfish: absent, n = 941; present, n = 42; Canary rockfish: absent, n = 871; present, n = 112; Lingcod: absent = 799; present = 184.

Predictor variable	Yelloweye rockfish				Canary rockfish				Lingcod			
	Absent		Present		Absent		Present		Absent		Present	
	Average	CV	Average	CV	Average	CV	Average	CV	Average	CV	Average	CV
Patch Area (m <sup>2</sup> )	<b>260.1</b>	2.61	<b>740.5</b>	1.28	<b>220.8</b>	2.53	<b>746.7</b>	1.70	<b>203.4</b>	2.71	<b>616.4</b>	1.74
Orange sea pen	0.1	24.19	0.0		0.1	23.28	0.0		0.1	22.30	0.0	
White sea pen	37.9	6.02	51.8	5.48	34.5	6.53	69.9	3.83	42.6	5.89	20.7	4.92
Sea whip	0.2	13.34	0.0		0.2	12.83	0.0		0.1	22.06	0.7	7.05
Anemone	<b>12.3</b>	5.73	<b>17.2</b>	2.43	<b>11.5</b>	5.24	<b>20.8</b>	5.78	<b>11.8</b>	5.42	<b>15.5</b>	5.75
Crinoids	2932.6	2.06	5339.0	1.87	<b>2873.6</b>	2.11	<b>4294.7</b>	1.81	<b>2911.0</b>	2.11	<b>3575.8</b>	1.91
Basket star	0.4	21.36	5.5	6.48	0.4	22.06	2.3	9.51	0.6	19.99	0.7	10.06
Finger sponge	22.5	8.84	15.3	3.39	<b>13.2</b>	6.81	<b>91.8</b>	5.63	20.0	8.25	31.8	9.19
Cloud sponge	240.1	6.20	575.0	3.49	254.6	6.07	252.9	5.00	215.2	5.57	425.0	5.77
Vase sponge	114.3	6.45	117.0	5.76	<b>107.2</b>	6.83	<b>170.0</b>	4.40	130.1	6.16	45.9	6.21
Cup sponge	0.5	14.12	1.5	4.97	0.6	13.04	0.3	5.94	0.4	16.73	1.6	7.98
Basket sponge	<b>1.2</b>	18.60	<b>1.5</b>	3.46	<b>1.3</b>	18.52	<b>0.9</b>	4.16	<b>1.4</b>	18.07	<b>0.7</b>	5.24
Sheet sponge	3.5	13.04	5.3	5.85	<b>0.8</b>	16.41	<b>25.0</b>	5.03	<b>1.5</b>	22.10	<b>12.6</b>	6.17

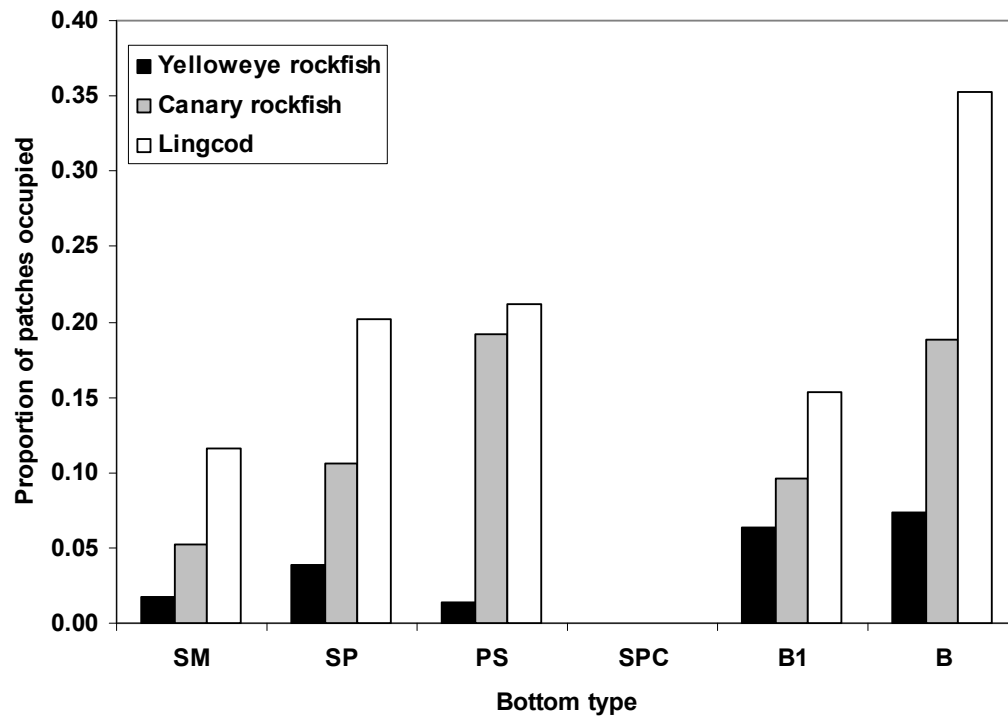


Figure 24. Proportion of patches occupied by bottom type for single species analyses. Bars represent the proportion of patches of each bottom type occupied by yelloweye rockfish, canary rockfish, and lingcod by bottom type. Bottom type categories include: SM = sand-mud, n = 172; SP = sand-pebble, n = 208; PS = pebble-sand, n = 146; SPC = sand-pebble-cobble, n = 22; B1 = scattered boulder, n = 313; and B = mixed boulder, n = 122.

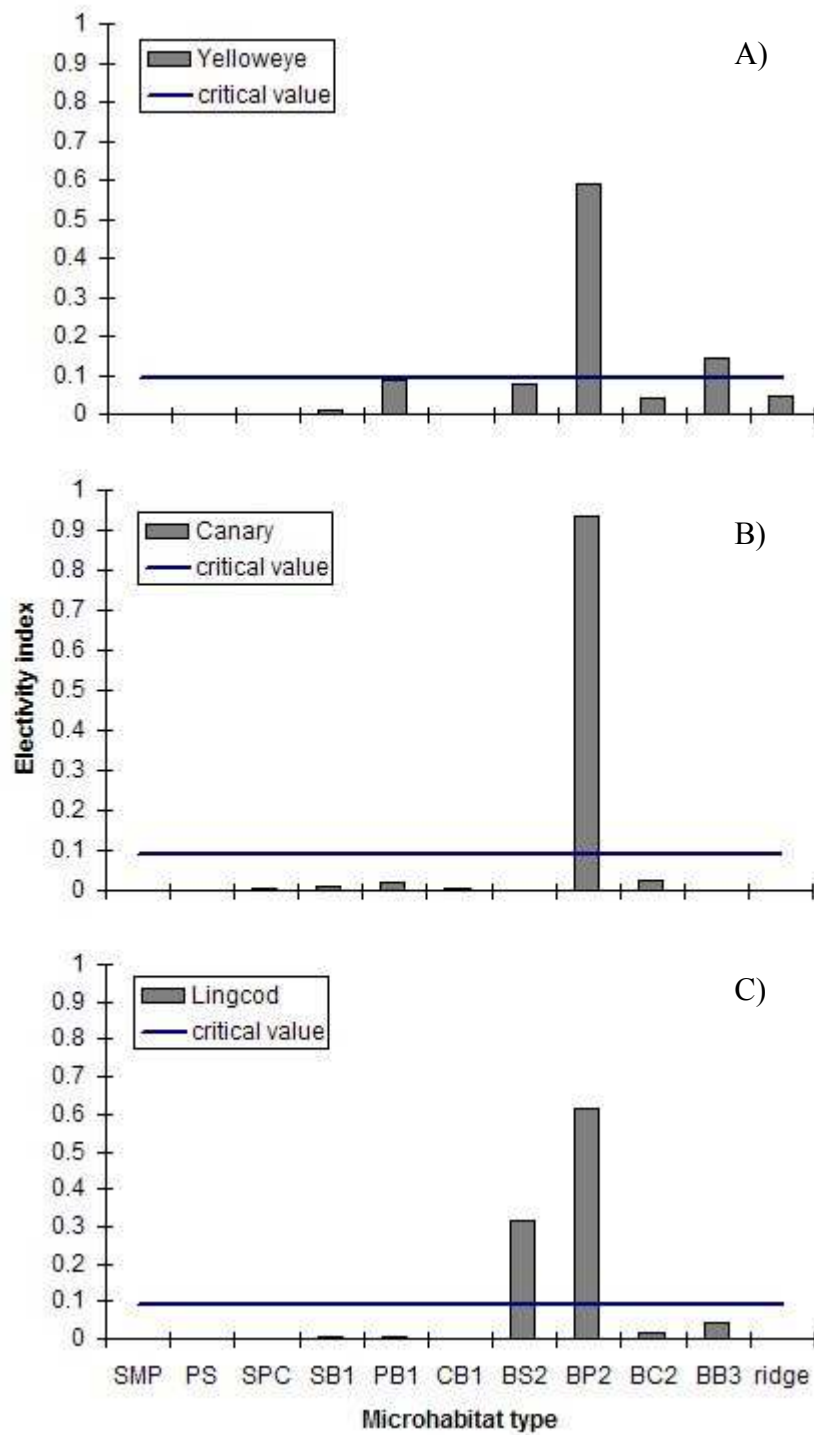


Figure 25. Microscale habitat use measured with Chesson's electivity index. (A) Yelloweye rockfish, (B) Canary rockfish, and (C) Lingcod. The horizontal line indicates the critical value above which species show preference for a habitat and below which species show avoidance or indifference.

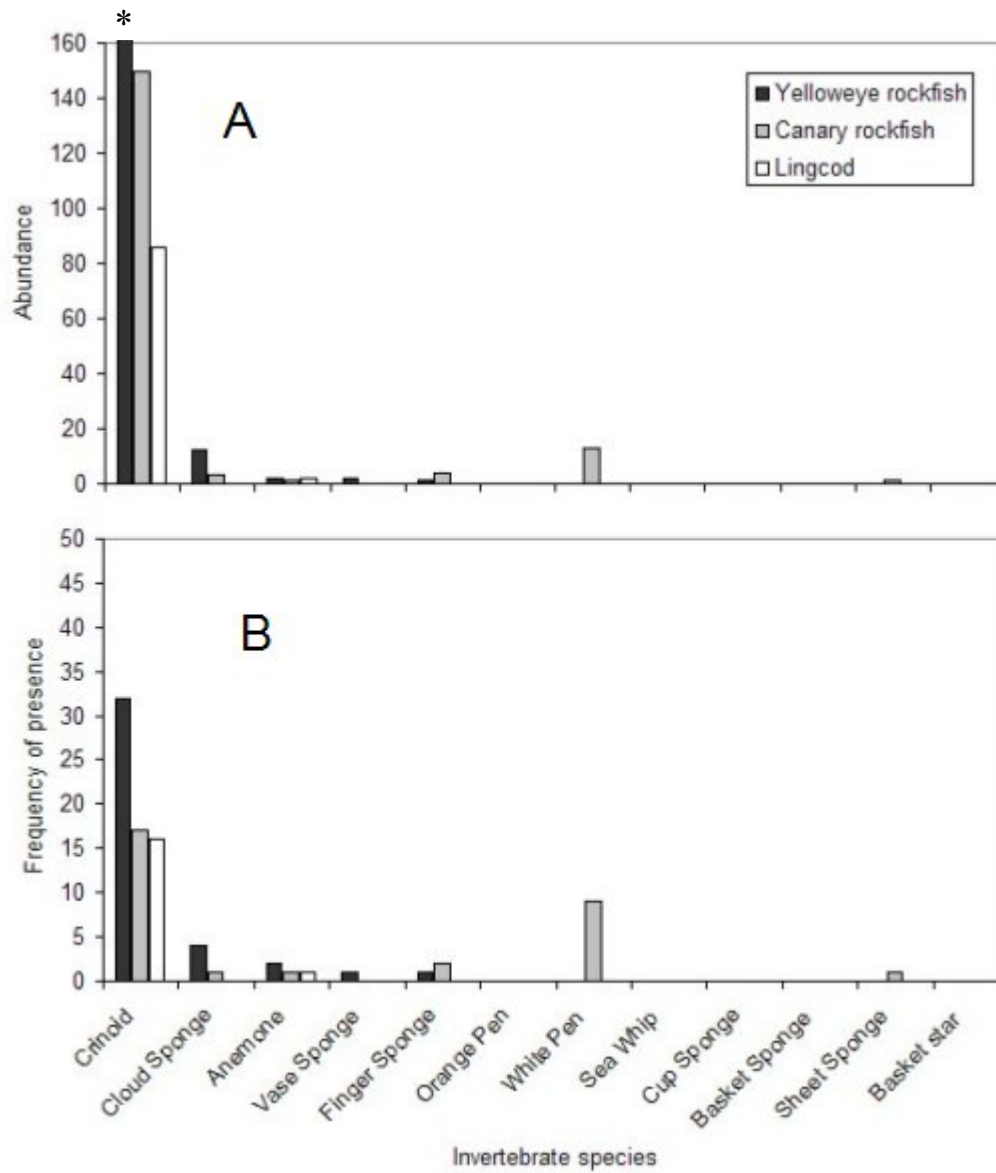


Figure 26. Invertebrate species presence in fish microhabitat. A) The abundance of each invertebrate species/group observed in the microhabitat surrounding individual fish of each species. Crinoids (\*) exceeded a count of 300 for yelloweye rockfish microhabitat. B) The frequency of occurrence (presence/absence) of each invertebrate species/group in each observed fish's microhabitat.

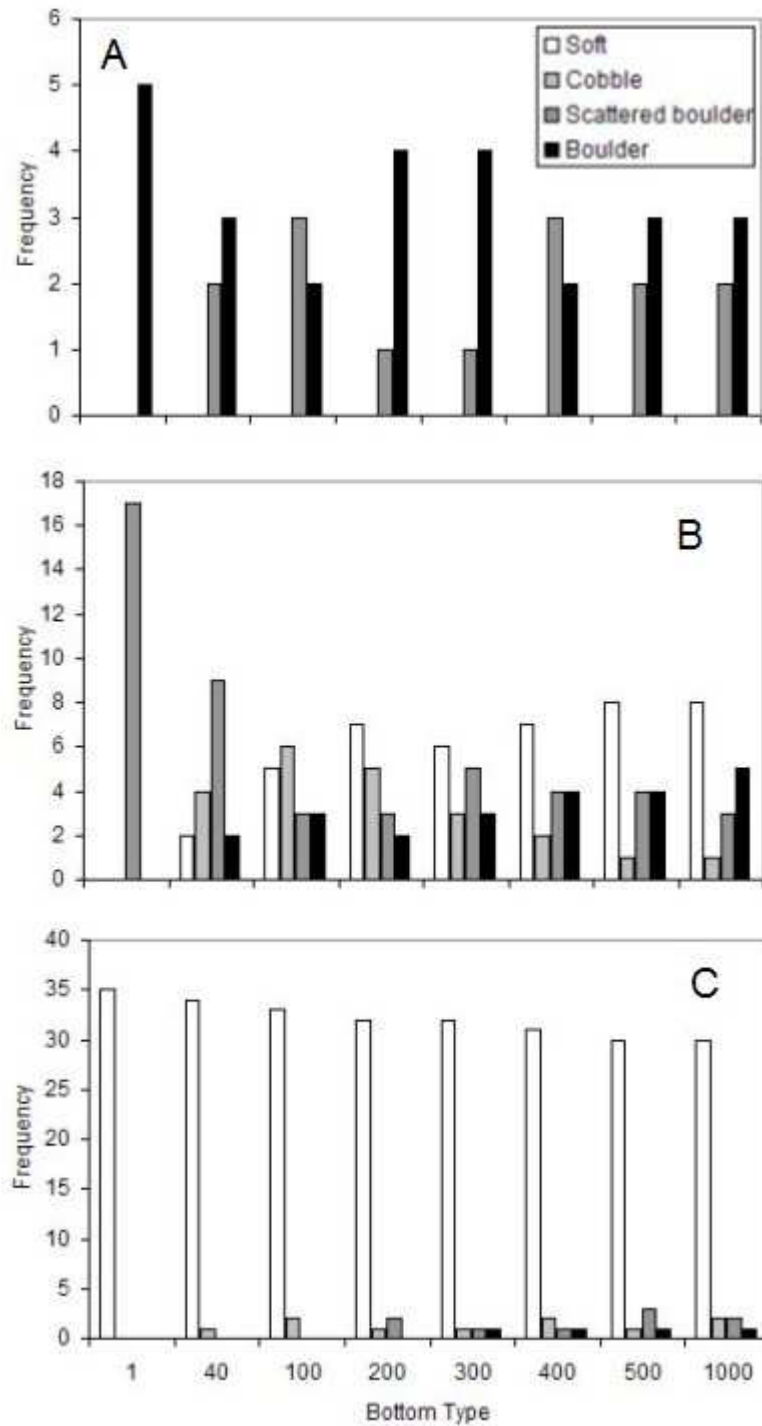


Figure 27. Spatial scale vs. bottom type comparison for canary rockfish. Comparison of the frequency of each bottom type as area surrounding individual canary rockfish increases: A) for canary rockfish within boulder dominated microhabitats; B) canary rockfish within scattered boulder microhabitats, and C) canary rockfish within sand-pebble dominated microhabitats.

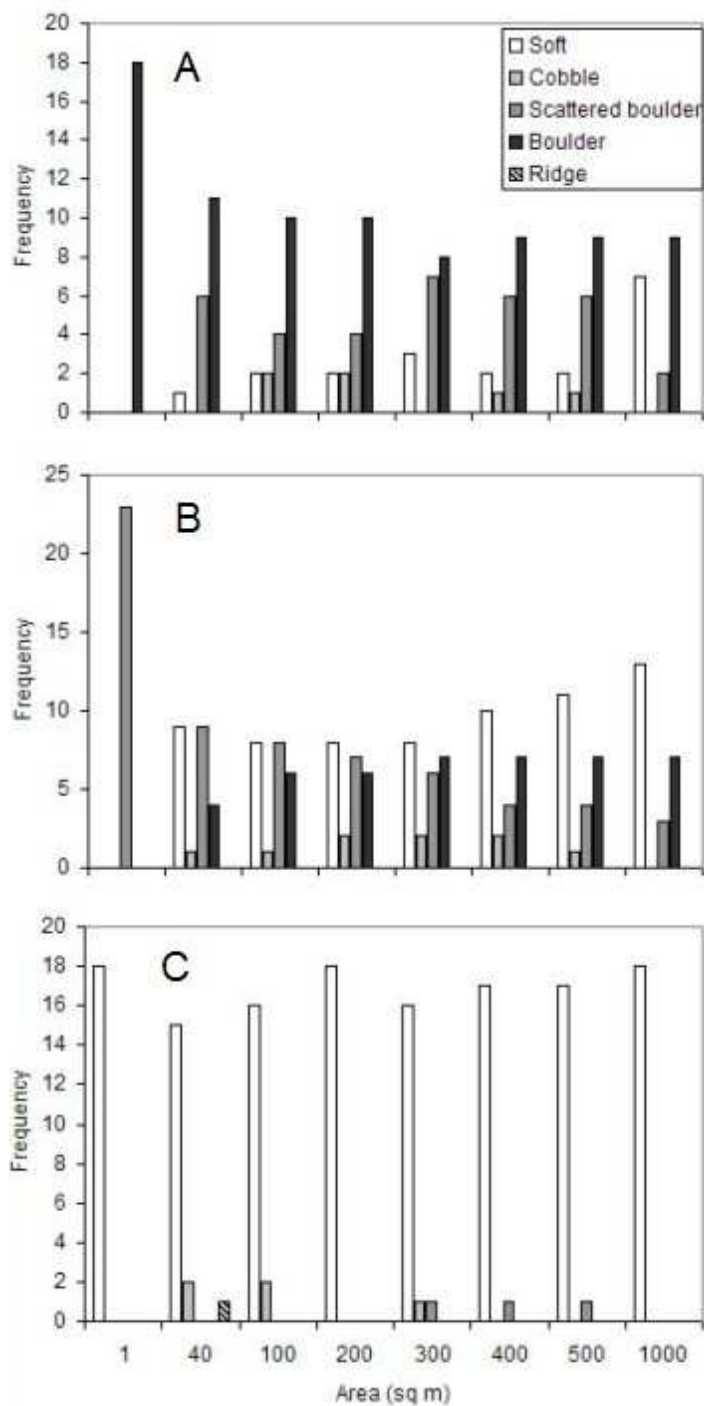


Figure 28. Spatial scale vs. bottom type comparison for lingcod. Comparison of the frequency of each bottom type as area surrounding individual lingcod increases: A) for lingcod within boulder dominated microhabitats; B) lingcod within scattered boulder microhabitats, and C) lingcod within sand-pebble dominated microhabitats.

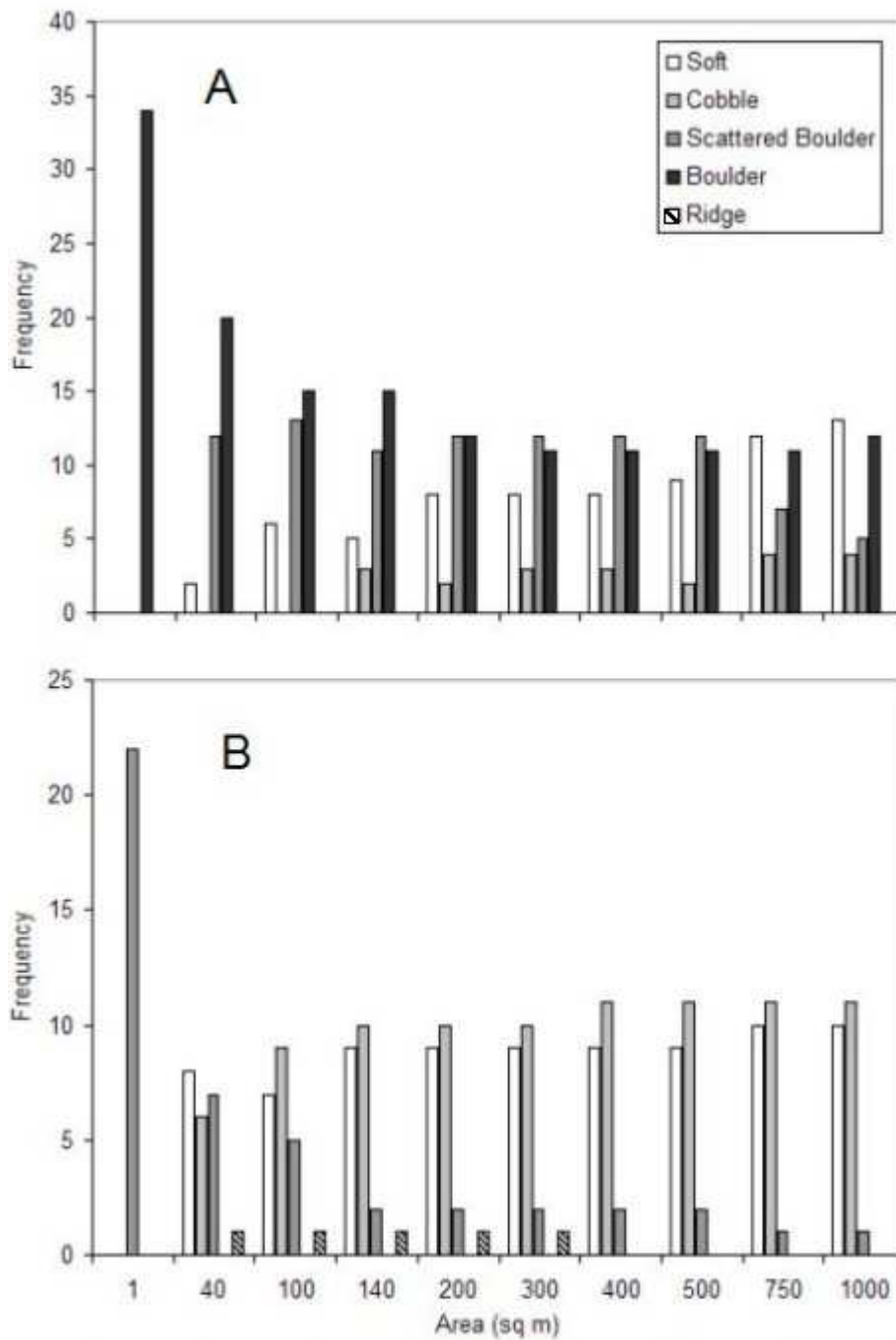


Figure 29. Spatial scale vs. bottom type comparison for yelloweye rockfish. A) Plot of the frequency of each bottom type across increasing spatial scales for individuals found in boulder-dominated microhabitats. B) Plot of the frequency of each bottom type across increasing spatial scales for individuals found in scattered boulder microhabitats.



## DISCUSSION

In this study, I classified benthic habitat types within nominally untrawlable areas on the Washington state continental shelf, examined the use of these habitats by fish populations to describe habitat associations, and evaluated the effects of scale on the analysis and description of habitat associations. These analyses revealed associations between benthic groundfish populations and specific features of substrate type and invertebrate communities within these untrawlable areas. The nature of fish-habitat associations varied across spatial scales. Smaller scales provided more precise description of habitat and revealed stronger relationships between fish and habitat features. The results demonstrated the utility of multi-scale assessments to describe habitat associations and identify the proper scale for analyses. The results of this study also suggested that biases exist in density estimates based on trawl survey data and emphasized the need for further studies to determine and address these biases in the design of surveys and use of trawl survey data.

### *Habitat types on the Washington continental shelf*

This study was unique in that we defined a geographic area of interest (the nominally untrawlable areas on the Washington continental shelf) and randomly sampled within it. Several previous studies focused their sampling on specific habitat types of interest, rather than all habitat types within an area. This study provided an objective assessment of habitat types and species distributions across habitat types within the untrawlable areas. The results were compared to those of similar studies in other regions along the West coast to examine the range and consistency of the observed habitat associations.

Overall, low relief substrates dominated the survey area. However, patches of high relief and complex habitats characterized by boulders and invertebrates were consistently present throughout transects. The habitat types we observed were comparable to those sampled in other studies along the West coast. Studies off the coasts of California, Oregon, British Columbia, and Alaska identified low relief sand-mud, pebble, and complex boulder habitats similar to those observed in our survey (Richards, 1986; Richards, 1987; Pearcy et al., 1989; Hixon et al., 1991; Krieger, 1992; Stein et al., 1992; O'Connell and Carlile, 1993; Murie et al., 1994; Starr et al., 1996; Krieger and Ito, 1999; Amend et al., 2001; Fox et al., 2000; Yoklavich et al., 2000; Else et al., 2002; Nasby-Lucas et al., 2002; Johnson et al., 2003). Rocky reefs of exposed hard bottom were prevalent in studies off the coast of Oregon (Pearcy et al., 1989; Hixon et al., 1991; Stein et al., 1992; Nasby-Lucas et al., 2002) but rare in our surveys. We also did not encounter abrupt pinnacles consisting of boulders and overhangs, which were identified as habitats supporting high yelloweye rockfish density off Alaska and California (O'Connell and Carlile, 1993; Yoklavich et al., 2000).

To objectively and consistently classify habitat, I used the habitat classification method developed by Hixon et al. (1991) and Stein et al. (1992) and applied by several other researchers (Fox et al., 2000; Yoklavich et al., 2000; Nasby-Lucas et al., 2002). I faced two major difficulties in trying to classify habitat. The first was the determination of a way to characterize the continuous and highly heterogeneous habitat into definable units for relating to fish communities. The second was the determination of the appropriate scale at which to define habitat in order to match the scale at which fish perceived and responded to their habitat. I addressed these issues by applying different measures of habitat classification and defining different scales of habitat. I defined habitat at the level of 10-second intervals (range = 7.9 to 21.8 m<sup>2</sup> per interval) along transects. This method partitioned the habitat into small units of equal area (within transects) that allowed detailed description of habitat types.

The 10-second intervals also served as sample units that could be aggregated to characterize habitat types and habitat associations at coarser scales. One problem with this method was that the 10-second intervals did not always match the natural breaks in habitat type. I addressed this issue by also defining habitat as patches, or continuous areas of similar bottom type (that remained constant for at least 10 seconds). Habitat description for each patch was not as detailed compared to the 10-second intervals, but the patches better represented the natural partitioning of habitats within the survey area. I also recorded the presence of boulders (none, isolated, scattered, contiguous, or stacked) within each 10-second interval and patch, whether or not the boulders represented more than 20% of the viewed area. This measure turned out to be useful, because fish communities tended to associate with the presence of boulders, regardless of the predominant substrate type within an area. Each of these methods allowed objective description of habitat, but a level of subjectivity still existed in habitat characterization. To ensure that any subjective bias was at least consistent across all analyses, one observer analyzed and characterized the habitat for all transect videotapes.

#### *Effects of scale on habitat associations*

The definition of habitat and analysis of associations at different spatial scales revealed the importance of scale in habitat studies and the utility of multi-scale assessments to characterize fish-habitat associations and describe essential fish habitat. Relationships between habitat type and fish communities were evident at both large and small spatial scales. However, at the transect-scale, the relationships were weaker. This might have been a consequence of the large area represented by each sample at the transect-scale (range = 2803.4 to 2819.5 m<sup>2</sup>). Each sample inevitably encompassed a heterogeneous mix of bottom types. Differences in fish communities associated with smaller scale patches within each transect would likely

be 'washed out' when these small patches were grouped together at the transect-scale. Samples at the transect-scale were likely too large to effectively examine and characterize relationships between fish communities and habitat. Characterizing the habitat at smaller scales increased the precision in habitat description and allowed better detection of the factors influencing the observed structure in the fish communities. Community analyses at the transect-level showed weak associations of communities with habitat features, whereas analyses at the patch-scale (patches of area 100 to 120 m<sup>2</sup>) revealed a definite partitioning of fish communities by bottom type, based on the presence of boulder substrates. Fish communities and the species within them most likely responded to habitat features at the patch-scale.

Single species analyses of yelloweye rockfish, canary rockfish, and lingcod habitat associations showed that all three species associated with invertebrate densities at the transect-scale. However, the details of these associations differed at smaller scales. Relationships at the transect-scale may not be very informative, again, because the samples encompassed large areas. For example, lingcod presence was found to be associated with transects with anemone density greater than 0.74 per hectare. However, this may be a spurious relationship. Given the large area covered by each transect, the presence of lingcod may not be associated at all with the presence of anemones on that same transect. The within-transect analyses provided more informative associations between the fish species of interest and the habitat features measured. At the patch-scale, lingcod and canary rockfish were observed on all bottom types, but showed preference for medium complexity bottom types (scattered and contiguous boulder substrates). Studies on Heceta Bank (Hixon et al., 1991; Stein et al., 1992; Percy et al., 1989) and off Alaska (Johnson et al., 2003) also found associations of canary rockfish and lingcod with complex bottom substrates. Within our survey area, these species displayed patchy distribution across the available habitats, with more consistent presence in larger patches and areas with high invertebrate cover, particularly crinoids and anemones. Critical habitat areas

for these fish species should encompass large patches with mixed substrates, including complex boulder piles. Tree models indicated that the presence of canary rockfish was less predictable based on habitat features than was the presence of lingcod, most likely due to the schooling behavior of canary rockfish. The survey and analytical methods used were better suited for more benthic species, like lingcod and yelloweye rockfish. Additional analyses could include separating solitary, benthic canary rockfish from schooling canary rockfish to compare their habitat associations.

Yelloweye rockfish presence at the patch-level was also difficult to predict, most likely due to the low numbers of yelloweye rockfish observed compared to lingcod and canary rockfish. Like lingcod and canary rockfish, the distribution of yelloweye rockfish was associated with larger patches and high densities of crinoids and anemones. However, for yelloweye rockfish, analysis of habitat associations at the micro-scale revealed a strong association with complex substrates and structures that was not as apparent at the patch or transect scale. Even within low relief patches, yelloweye rockfish occupied boulder microhabitats, except for two individuals that were associated with sponge and crinoids on pebble-sand. The strong preference for highly complex substrates (contiguous and stacked boulders) agreed with observations in other studies along the West coast. In southeastern Alaska and British Columbia, yelloweye rockfish densities were significantly greater over boulder fields and broken rock (O'Connell and Carlile, 1993; Murie et al., 1994; Johnson et al., 2003) and wall habitats (Richards, 1986) than over low relief substrates. Yelloweye rockfish were most commonly observed over complex cobble, boulder, and rock ridge habitats off the California and Oregon coasts (Stein et al., 1992; Yoklavich et al., 2000). Previous studies suggested that association with highly complex bottoms may be influenced by the presence of refuge spaces (O'Connell and Carlile, 1993; Johnson et al., 2003) that provide protection and increased prey resources (Murie et al., 1994). These studies and our observations

suggested that yelloweye rockfish presence was driven by microscale habitat associations, and critical habitat areas for this species should include high complexity refugia within areas of mixed substrates.

Analysis of habitat types from microscale to transect-scale demonstrated that our perception of habitat and habitat associations may differ based on spatial scale. As the scale of habitat classification increased, the proportion of habitats classified as low relief also increased, due to the predominance of low relief substrates throughout the survey area. The choice of scale could have significant effects on the perceived habitat preference of fish species. This study suggested that classification of habitat at smaller scales provided a better description of fish-habitat associations. Smaller scales may also allow more precise estimates of density for fish population assessments. The variation in fish density for yelloweye rockfish, canary rockfish, and lingcod was about the same or reduced across patches of preferred habitat compared to the variation in fish density across transects of preferred habitat. The scale at which to define and examine habitat associations depends, however, on the study. The heterogeneous nature of the habitat within our study area, and in particular the limited availability of preferred habitat (for some species) on a less-preferred background, required the more precise description of habitat afforded by smaller scale analysis. Other studies have described habitat at different scales. For example, in a study of shortspine thornyhead habitat off Alaska, habitat type was defined by the proportion of soft and hard substrates within transects, determined by frame grabs taken at one-minute intervals (Else et al., 2002). Because the habitat types were fairly homogeneous within transects, this method was appropriate for their study. Other studies included multiple scales in analyses of fish-habitat associations and found, like this study, that different scales gave different interpretations of habitat associations, each providing valuable information for the understanding of fish-habitat relationships (La Mesa et al., 2002; Mattingly and Galat, 2002; Syms, 2002). Depending on the nature of habitat types and patterns of

their distribution in space, different scales of habitat classification may be appropriate and should be explored in studies of habitat use and associations.

### *Fish-habitat associations*

Bottom type was the major factor related to differences in fish communities and fish densities. Previous studies have described species-specific differences in distribution across bottom types similar to our observations. In studies off the Oregon coast, greenstripe rockfish and dover sole were observed in greater density on mud substrates and rosethorn rockfish in greater density on boulder substrates (Pearcy et al., 1989; Hixon et al., 1991; Stein et al., 1992). Studies off the California and Alaskan coasts found communities on low relief substrates typified by greenstripe rockfish, versus communities on rocky, complex substrates typified by rosethorn rockfish and larger species such as canary, yellowtail, and yelloweye rockfish (Yoklavich et al., 2000; Johnson et al., 2003). In a comparison of trawlable and untrawlable sites off the Washington coast, Jagielo et al. (2003) noted greater densities of dover sole, arrowtooth flounder, halibut, and skates in trawlable areas. Rosethorn rockfish, yellowtail rockfish, yelloweye rockfish, and lingcod were greater in density in untrawlable sites.

In our study, fish communities were associated with habitats that differed in the presence of boulder substrates. At both scales, fish communities were associated with broad categories of bottom types defined by the presence of boulders. Species separated into consistent groups, with the major differences observed between communities in low relief substrates (trawlable) and communities in boulder substrates (untrawlable). Although the species composition was similar between these communities, the densities of species differed. Boulder habitats supported greater total fish density than low relief habitats. More specifically, boulder habitats

supported greater densities of unidentified rockfish, rosethorn rockfish, and lingcod, and lower densities of flatfish and greenstripe rockfish compared to low relief habitats. These differences in species densities across different bottom types again emphasized the potential bias in density estimates based on trawl survey data. Trawl surveys to monitor groundfish populations concentrate their sampling in trawlable areas, characterized by low relief substrates. Density estimates from these surveys are assumed to be representative of the whole survey area, including areas of untrawlable habitat. However, if the low relief substrates in our study served as a proxy for trawlable areas, our results suggested that trawl surveys might be biased in their estimates of fish density for groundfish species, which in turn affects stock assessment and fish management. By concentrating their sampling in trawlable habitats, the estimates of density for species such as rockfish and lingcod may be underestimated, and those for flatfish overestimated, a concern raised in previous studies (Jagiello et al., 2003; Zimmermann, 2003) and affirmed by our results. Alternative or multiple survey methods to monitor populations for fisheries management would help to address this bias in density estimates (Starr et al., 1996; Adams et al., 1995; Krieger, 1993). Further studies with sampling in paired trawlable and untrawlable sites are needed to directly compare fish densities between the two areas.

It is important to emphasize that the method to select samples for the patch-level community analyses may have introduced bias. For the patch-level community analyses, I chose all patches that were 100 to 120 m<sup>2</sup> in area, resulting in a sample size of 57 patches from the original 983 patches. The small number of samples did not include at least one sample from each transect, nor were they chosen to represent the frequency of occurrence of each bottom type across all patches. Although the selected samples represented the diversity of bottom types observed, the samples may have been biased in their representation of the community structure within the surveyed area as a whole. To address this issue, further analyses can be conducted



using samples that represent all transects and the distribution of bottom types within them. Bootstrap methods may also be employed to determine the distribution of outcomes for the community analyses, and provide a better representation of the community structure within the survey area.

We also observed abundant invertebrate species and multi-species groups that potentially served as important habitat features for groundfish. Yelloweye rockfish, canary rockfish, and lingcod densities and presence were associated with the density of crinoids and anemones. Crinoids were abundant on many transects (average density = 2033.5/ha; frequency of occurrence = 34/50 transects) whereas anemones were less so (average density = 7.3/ha; frequency of occurrence = 26/50 transects). Both provided added structure and vertical relief to the habitat. However, crinoids, anemones, and other invertebrate species also showed associations with physical substrate types. I did not specifically analyze the habitat associations of invertebrate species, but the presence of these habitat associations may confound the relationships observed between fish and invertebrate species. For example, crinoids and anemones were predominantly found on boulder substrates. The association of yelloweye rockfish, canary rockfish, and lingcod with crinoids and anemones may be either an association with the invertebrates themselves, or the result of the association of both the fish species and invertebrate species with the same substrate type. For classification and regression trees, bottom type and boulder type were usually good alternative predictors in place of crinoid and anemone density, suggesting that the combination of substrate type and invertebrate presence may be important for yelloweye rockfish, canary rockfish, and lingcod.

Other commonly observed invertebrates, such as sponge, may be related to other fish species. Richards (1986) noted the presence of sponge gardens in studies off the coast of British Columbia that potentially served as nursery sites for juvenile rockfish. Else et al. (2002) found high correlation between sponges and the

abundance of shortspine thornyhead, but determined that the relationship was affected by the association between sponges and substrate types. Recent interests have focused on the use of deepwater corals by groundfish species. Large rockfish, including yelloweye rockfish, were seen associated with *Primnoa* spp. in the Gulf of Alaska, presumably for the structure provided by these corals (Krieger and Wing, 2002). In our study area, we did not observe large corals, though we did see a few small gorgonian corals. Instead, crinoids, sponges, and other structure-providing invertebrates may serve similar functions in place of corals in our study area. Non-structure providing invertebrates, such as sea cucumbers and sea stars, were abundant and may play different roles in fish habitat by altering habitat features, serving as prey, or even acting as predators on fish (e.g., *Stylasterias forreri*, a fish-eating sea star). The presence of high relief substrates, diverse invertebrate communities, and associations of fish species with these features underscores the need to assess and address the impacts of fishing, particularly bottom trawling, on benthic habitats (Cryer et al., 2002; Morgan and Chuenpagdee, 2003).

#### *Survey limitations and further research*

Like any survey method, visual surveys have limitations, including decreased ability to view fish in certain habitat types, effects of submersibles on fish behavior and presence, and difficulty in identifying fish and invertebrate species. The ability to detect and observe fish differed among habitat types. Fish in rocky boulder substrates may occur behind boulders or in crevices, keeping them out of the field of view and resulting in potential underestimation of fish abundance within boulder substrates. If we assumed that such errors were less likely on low-relief substrates (mud, sand, pebble, and small cobble), then our estimates of fish densities within boulder areas were conservative. However, detection of fish may also be reduced in low relief areas. For example, fish may be more likely to flee from the presence of

the submersible when occupying low relief habitats than when they occupy boulder habitats. If the response of fish to the submersible differed depending on the habitat type occupied, then our observations and estimates of density may again be biased. Further studies are needed to determine the differences in detection of fish across different habitat types.

Studies are also needed to address the response of fish to the submersible and how their behavior may affect our estimation of fish densities. The lights and presence of the submersible may affect fish behavior, either attracting or repelling fish. Hixon et al. (1991) assessed these effects by comparing the fish distribution and abundance before and after a 10-15 minute rest period with all submersible lights and motors turned off. They found little change, suggesting that the submersible did not significantly alter fish behavior or abundance. In our survey, fish did not seem to be affected by the submersible; fish that swam away did so after the submersible was almost on top of them and had already recorded their presence on the transect video. Schooling canary rockfish may have been attracted to the submersible. However, fish may have swam away before their presence was recorded by the observer and the transect video. The response of fish to the submersible's presence would differ by species, and potentially by the habitat occupied by the species, and requires further study.

Most adult fish species were consistently identifiable from the transect videos. Small rockfish (less than 20 cm in total length) and flatfish were difficult to identify due to size (rockfish), orientation, and cryptic coloration (flatfish). Unidentified rockfish and unidentified flatfish accounted for a large proportion of fish observations, which may affect measures of species diversity. Although the ability to identify individual fish was not affected by the habitat type, unidentified rockfish were more abundant in boulder areas, whereas unidentified flatfish were more abundant in low relief areas. Depending on the number of species within each of these unidentified groups, the

results for species richness and species diversity across the different bottom types may differ from what was reported here.

Despite these limitations, visual surveys recorded on film, analog videotape, or digital medium provide several advantages, namely no-take monitoring of populations, a semi-permanent visual recording of observations, and the ability to record and preserve behavioral and habitat observations (Jagiello et al., 2003). The utility of visual surveys has been demonstrated in many studies along the coast and in this study, allowing us to extract useful information about the fish communities inhabiting benthic habitats off the Washington coast. In general, the fish-habitat associations observed were consistent with those in previous studies along the West Coast. This study was limited in scope, however, with data from only one month in one year. Comparison with other studies allowed some evaluation of the generality and consistency of our observations over time and location, but further studies should be conducted to determine inter-annual, seasonal, diel, and ontogenetic variability. If possible, a long-term monitoring program should be established, to continue monitoring the fish and invertebrate communities and physical habitat within these areas and also within trawlable areas. Long-term monitoring data on benthic fish and invertebrate communities would be valuable in several ways for management. The data would be useful for stock assessments, especially for overfished populations, as well as for assessment of the variability in populations, communities, habitats, and habitat associations over time in conjunction with long-term changes in climate, fishing pressure and management, rebuilding of populations, and other factors influencing these benthic communities. Long-term monitoring would provide data for comparison and detection of trends over time as the environment and human interactions with these communities and habitats change. The data presented in this study could serve as a partial baseline for comparison, to detect changes over time and to help identify possible explanatory factors for those changes.

The results of this study generated further questions to be explored in our understanding of fish-habitat associations. Differential fishing pressure across habitat types might affect the fish distribution across those habitats (Yoklavich et al., 2000; Johnson et al., 2003). The survey area was designated as untrawlable by the NMFS triennial trawl surveys, but was not untrawlable to fishermen. We observed evidence of recent trawl tracks within several transects. Fishing may affect our perception of habitat associations, by selectively decreasing the density of fish on some bottom types, but not on others. The absence of fish from seemingly favorable habitat (for example, yelloweye rockfish were present on only 5% of presumably favorable patches) required further examination. Several explanations are possible, including depressed populations, species-species interactions (i.e., competition), differential use of habitats at different life history stages, or other factors that we have not measured that could limit the habitat use of species. The presence of abundant juvenile rockfish within the surveyed area suggested that the habitats may serve as nursery areas for juveniles. However, we could not consistently and reliably identify these juvenile rockfish to species due to their small size, although we were able to identify greenstripe, redstripe, rosethorn, sharpchin, and stripetail rockfish as species included within this group. The role of these habitats for different life history stages needs further investigation. Finally, this study examined the patterns of habitat associations in space but not the processes determining the associations. Knowledge of both may contribute to effective management of these benthic groundfish populations.

### *Summary and conclusions*

The objectives of this study were to: 1) characterize the physical and biological habitats within nominally untrawlable areas on the Washington state continental shelf; 2) examine fish-habitat associations at the community and single species levels;

and 3) determine the effects of different spatial scales on the analysis of habitat associations. We conducted a visual survey using the *Delta* submersible to collect data on 50 transects, at depths of 102 to 225 m. Habitats observed were dominated by low relief substrates, but were heterogeneous in nature due to the presence of high relief boulders and structure-providing invertebrates.

Diverse populations of fish were observed, including 16 rockfish species among 36 total species. Fish communities were associated with boulder type and differed among patches of low relief substrates and boulder substrates. Fish communities within boulder substrates included greater total fish density and greater density of unidentified rockfish, rosethorn rockfish, and lingcod compared to low relief substrates. Single species analyses showed preference among yelloweye rockfish, canary rockfish, and lingcod for boulder substrates, as well as areas of high crinoid and anemone density. As the spatial scale decreased from the transect-scale to the microscale, the strength of associations with high complexity boulder types increased for all three species.

Our observations of fish distribution and association with habitat types were consistent with observations from previous studies along the West coast conducted at different times and locations. Results of our study drew attention to two major issues. The first was the importance of scale in the classification of habitat and description of habitat associations. The perception of habitat associations was scale-dependent, and multi-scale assessment provided a useful method to classify habitats and characterize habitat associations. The second was that data on habitat associations of groundfish populations emphasized the need to assess and address the bias in density estimates based on trawl survey data. Fish communities and species showed differential use of habitats, generally forming separate groups based on boulder types that represented untrawlable and trawlable substrates. The concentration of trawl surveys on trawlable habitats likely biased the estimation of groundfish densities.

Multiple or alternative methods of assessment need to be employed to address the habitat bias of trawl surveys.

The results of this study provided a starting point for further studies by identifying where species occur and what factors may play an important role in determining habitat associations. Paired sampling of trawlable and untrawlable habitats is needed to better assess the habitat associations of populations and fish communities within these areas. Continued monitoring of habitat, fish, and invertebrates would be ideal to examine inter-annual, seasonal, diel, and ontogenetic variability, as well as to detect change over time, using the data from this study as a partial baseline. Factors that were not addressed in this study, including the effects of fishing on fish distribution and abundance, the use of habitats by fish at different life history stages, explanations for low occupancy of perceived preferred habitats, and causal factors for the habitat associations observed, should also be explored through further studies to provide information for the definition of essential fish habitat and development of effective management plans.

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## APPENDIX A: SUMMARY OF SINGLE-SPECIES CART ANALYSIS RESULTS

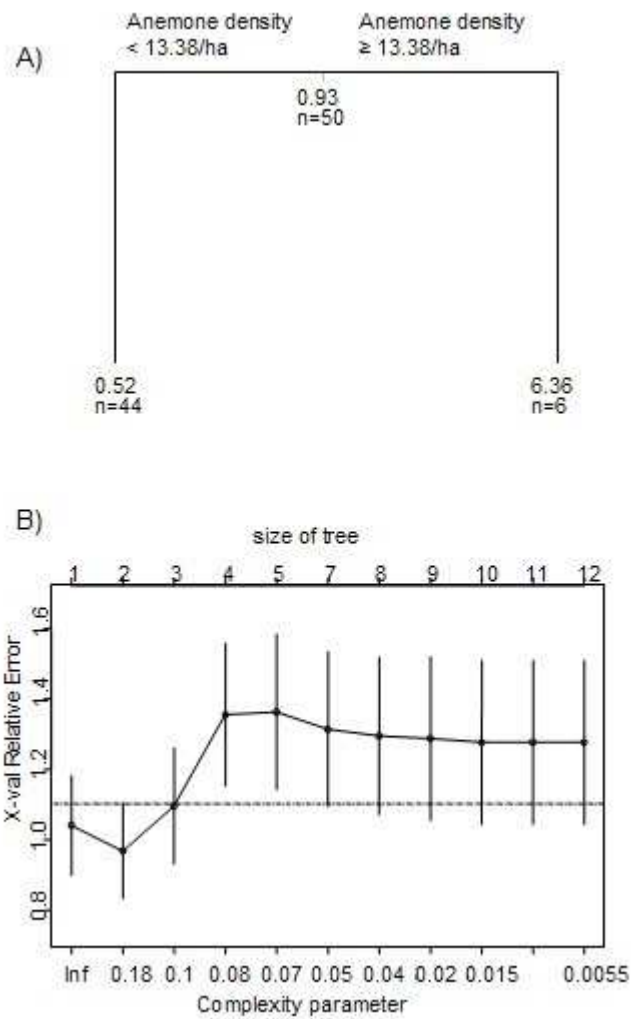


Figure A.1. Classification and regression trees for yelloweye rockfish. (A) Regression tree for yelloweye rockfish density at transect level and (B) cross validation plot showing the optimal tree size as 1 node.

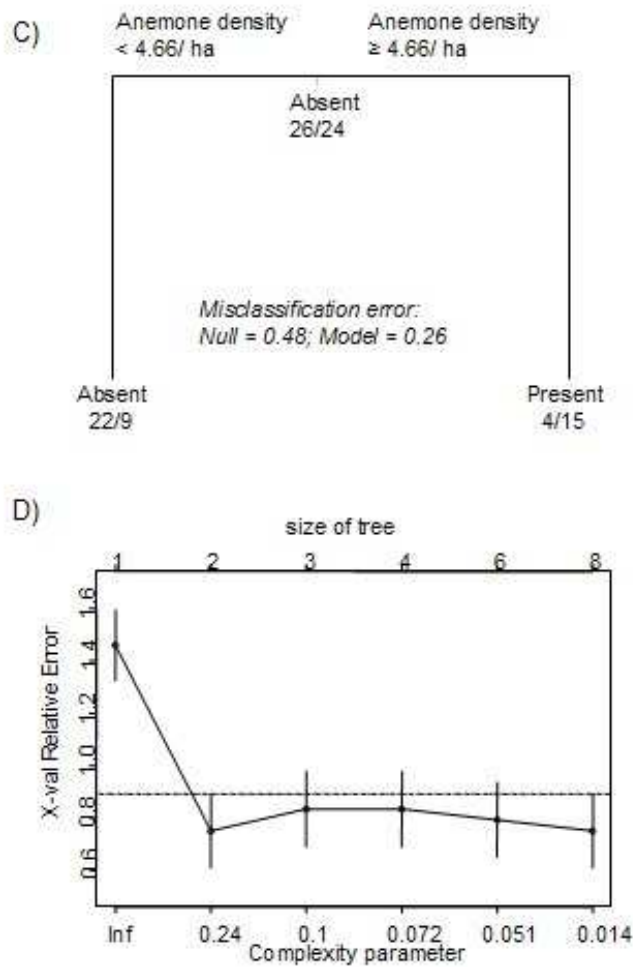


Figure A.1 continued. Classification and regression trees for yelloweye rockfish. (C) Classification tree for yelloweye rockfish presence at transect level and (D) cross-validation plot showing optimal tree size of 2. (E) Classification tree for yelloweye rockfish presence at patch-level and (F) cross validation plot showing the optimal tree size as 1 node.

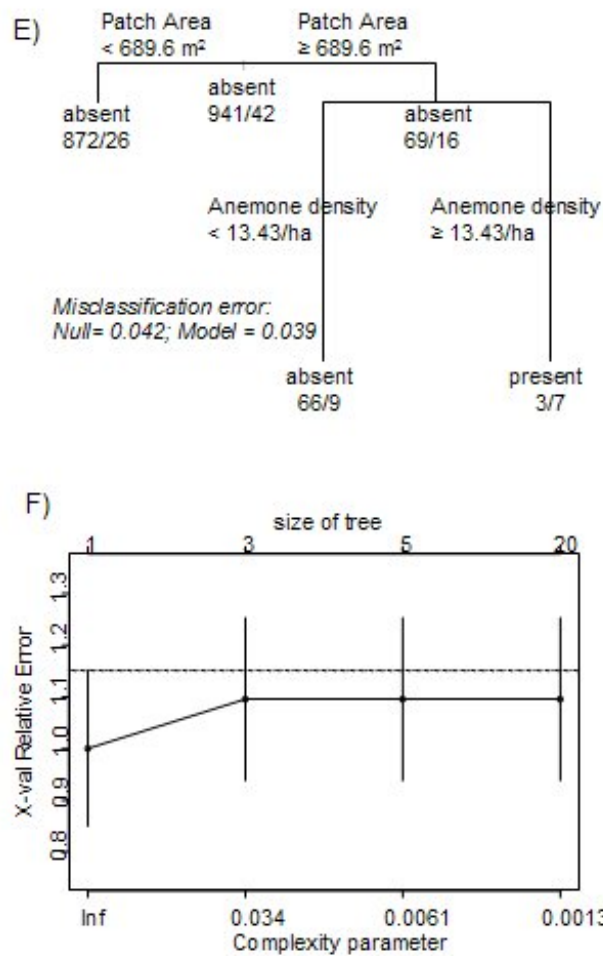


Figure A.1 continued. Classification and regression trees for yelloweye rockfish. (E) Classification tree for yelloweye rockfish presence at patch-level and (F) cross validation plot showing the optimal tree size as 1 node.



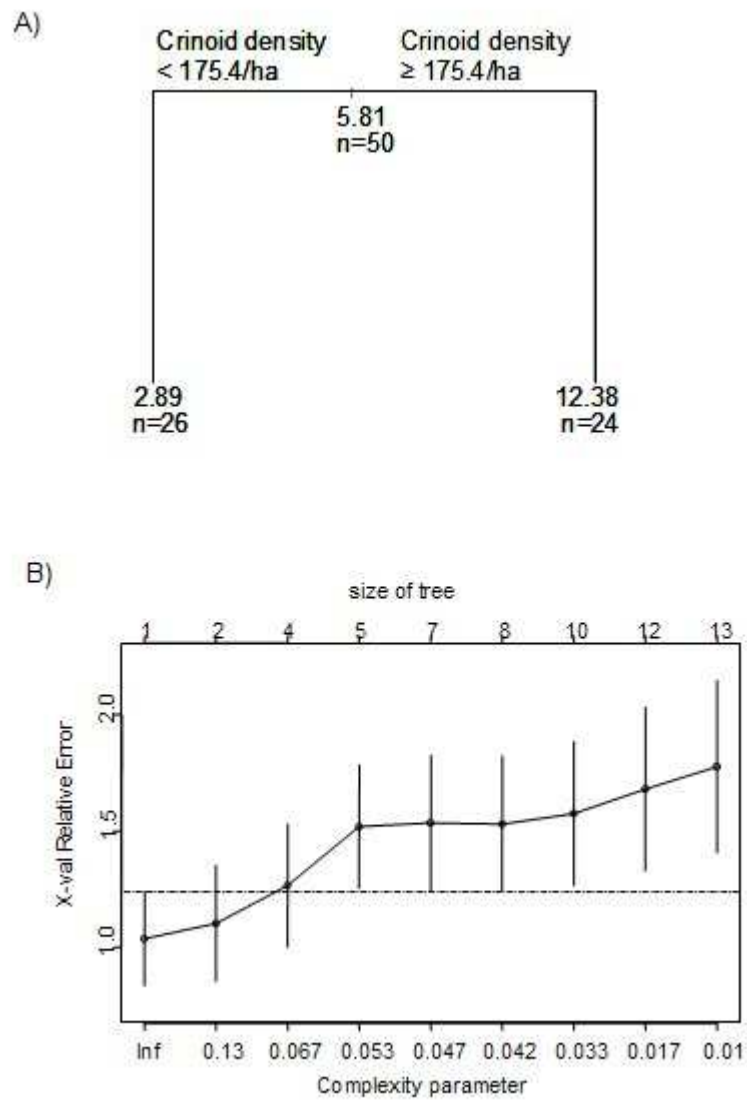


Figure A.2. Classification and regression trees for canary rockfish. (A) Regression tree for canary rockfish density at transect level and (B) cross validation plot. The cross-validation plot shows that the optimal tree size is 1 node (0 splits).

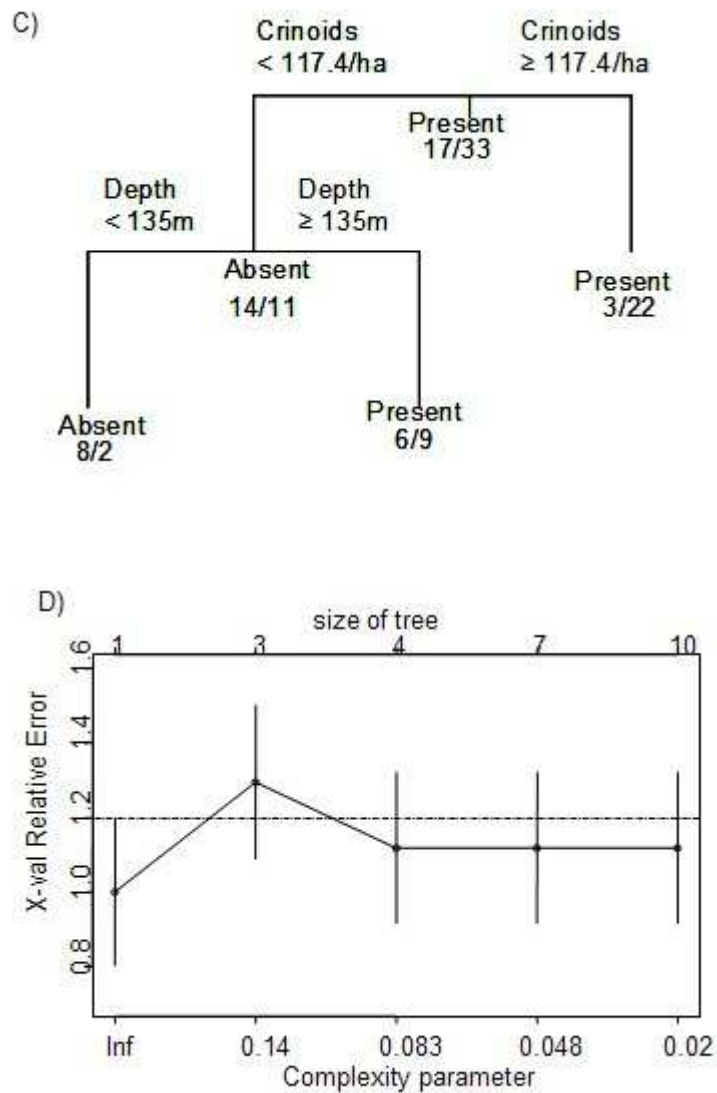


Figure A.2 continued. Classification and regression trees for canary rockfish. (C) Classification tree for canary rockfish presence at transect level and (D) cross-validation plot.

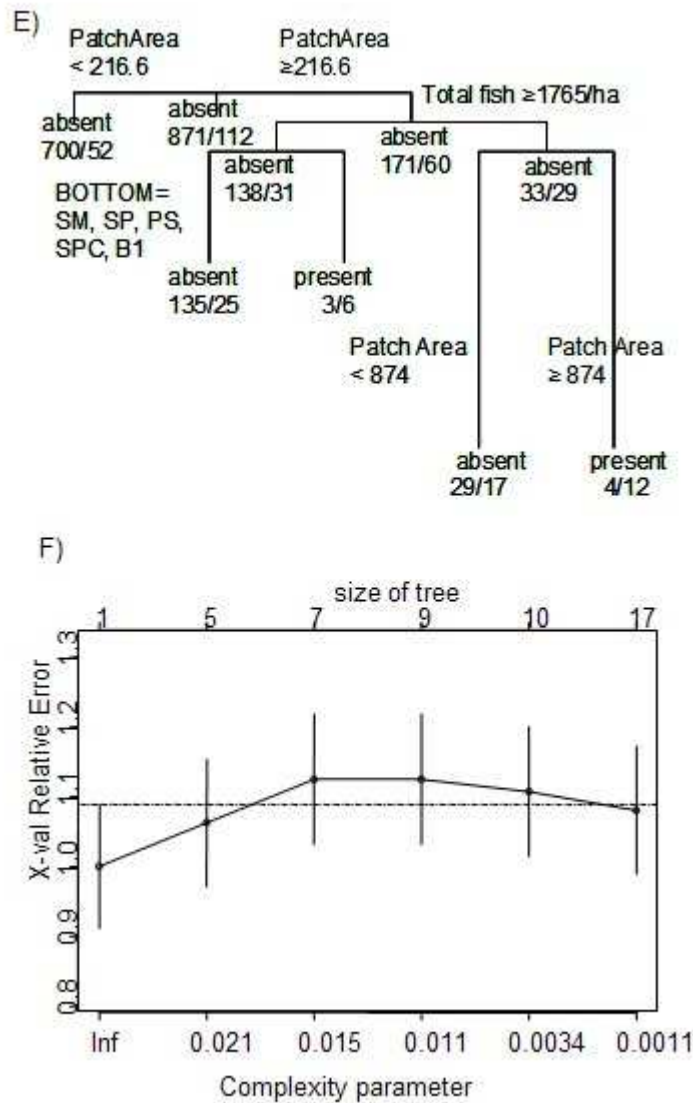


Figure A.2 continued. Classification and regression trees for canary rockfish. (E) Classification tree for canary rockfish presence at patch-level and (F) cross validation plot. Each of the cross-validation plots shows that the optimal tree size is 1 node (0 splits).

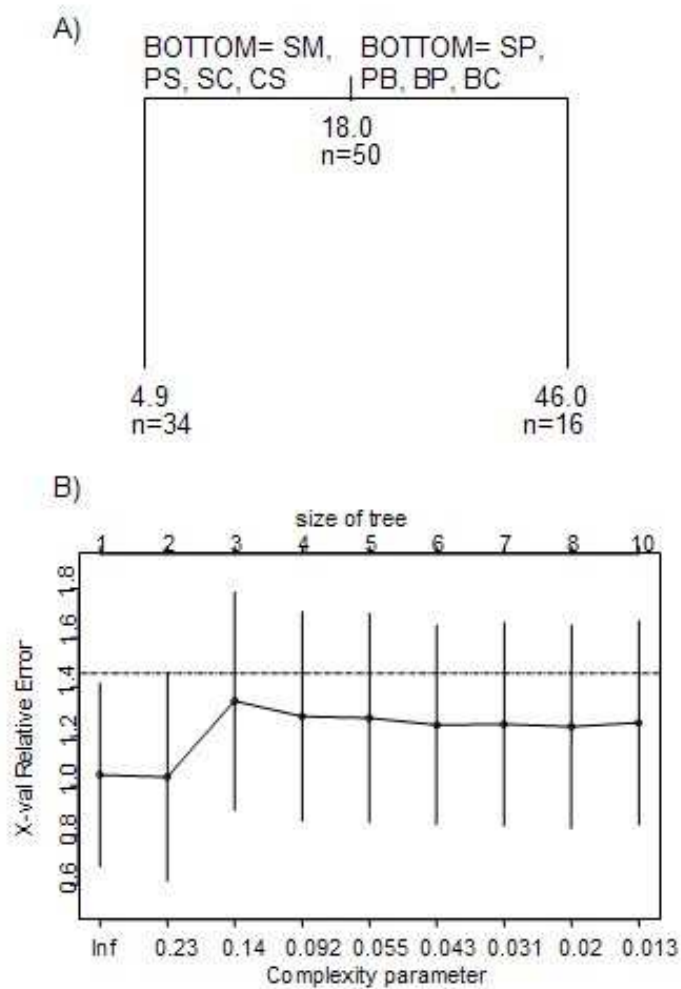


Figure A.3. Classification and regression trees for lingcod. (A) Regression tree for lingcod density at transect level and (B) cross validation plot showing optimal tree size of one node.

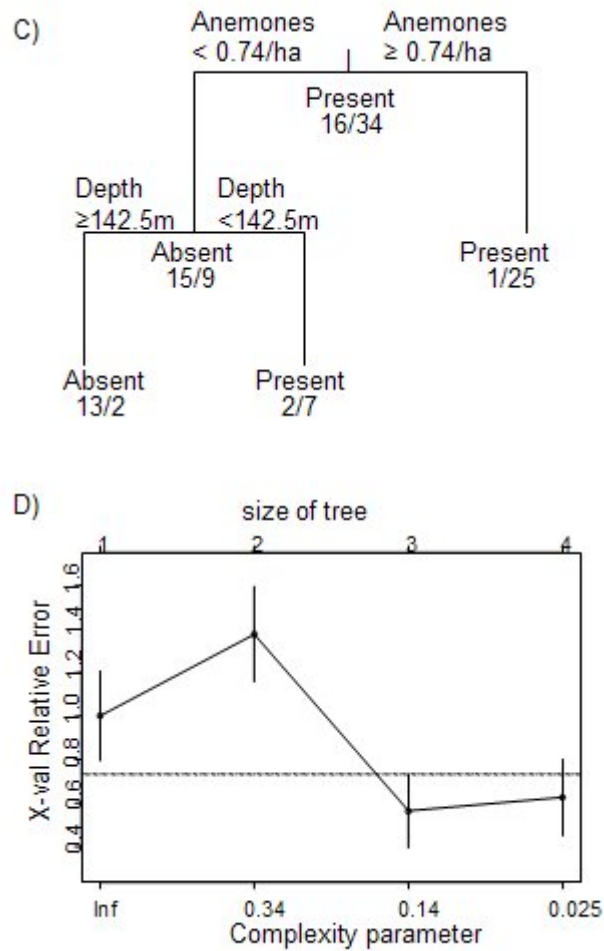


Figure A.3 continued. Classification and regression trees for lingcod. (C) Classification tree for lingcod presence at transect level and (D) cross-validation plot showing optimal tree size of 3 nodes.

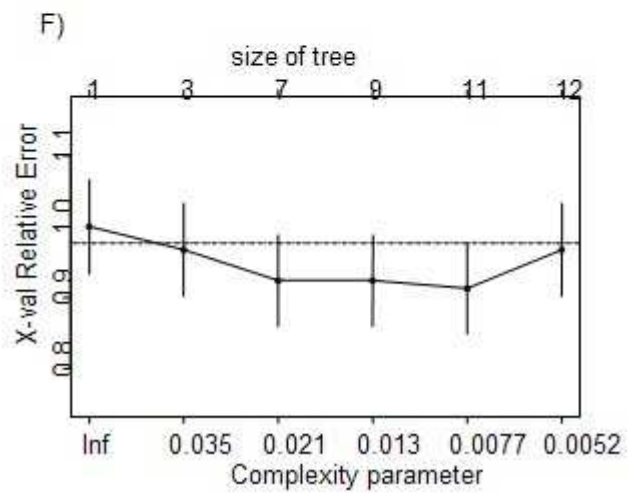
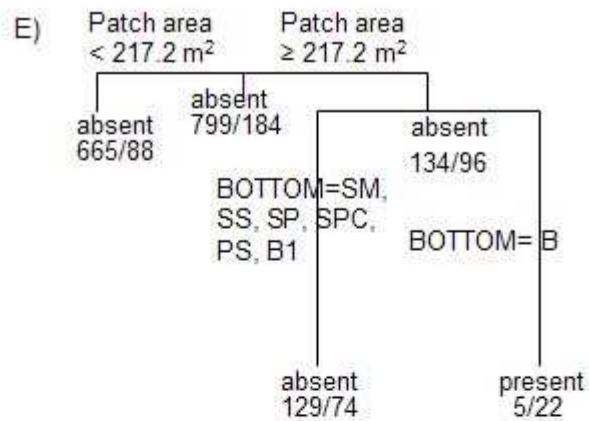


Figure A.3 continued. Classification and regression trees for lingcod. (E) Classification tree for lingcod presence at patch-level and (F) cross validation plot showing optimal tree size of 3 nodes.

**APPENDIX B: SUMMARY OF DATA USED IN TRANSECT-SCALE  
MULTIVARIATE ANALYSES**

Table B.1. Summary of transect-scale data. Samples were areas of transects ranging from 2803.4 to 2819.5 m<sup>2</sup>. Factors included depth (m), bottom type, boulder type, and invertebrate categories. Fish species densities are listed in numbers per ha. Bottom type categories were defined by a two-letter code, the first letter representing the primary ( $\geq 50\%$  of viewed area) substrate, the second letter representing the secondary ( $\geq 20\%$  of viewed area) substrate. Substrate codes: M = mud, S = sand, P = pebble, C = cobble, B = boulder. Boulder types indicated the dominant boulder presence ( $\geq 50\%$ ) within a sample. Categories: none = mainly no boulders; scattered = mainly scattered boulders; mixed =  $\geq 50\%$  scattered, contiguous, or stacked boulder. Invertebrate categories (based on counts): absent or none = 0; present  $\geq 0$ ; few  $\geq 0$ , but  $< 10$ ; some  $\geq 10$ , but  $< 100$ ; many  $\geq 100$ .



















Samples	DELTA DIVE	5691	5692	Average	Stdev	CV
Factors	AREA (m <sup>2</sup> )	2814.4	2806.7	2811.6	4.32	0.002
	DEPTH (m)	105	111	135.1	24.83	0.184
	BOTTOM	SM	SM			
	BOULDER	none	mixed			
	<i>Ptilosarcus gurneyi</i>	present	absent			
	<i>Virgularia</i> sp	some	none			
	<i>Balticina septentrionalis</i>	absent	absent			
	Anemone	few	few			
	<i>Gorgonocephalus eucnemis</i>	absent	absent			
	<i>Florometra serratissima</i>	none	some			
	Finger sponge	none	none			
	Cloud sponge	some	many			
	Vase sponge	few	some			
	Cup sponge	absent	present			
	Basket sponge	absent	absent			
	Sheet sponge	none	few			
Species Data	<i>Sebastes ruberrimus</i>	3.55	3.56	1.9	3.15	1.640
(density in	<i>Sebastes pinniger</i>	10.66	3.56	27.2	83.20	3.059
numbers/ha)	<i>Sebastes helvomaculatus</i>	24.87	39.19	76.3	92.85	1.216
	<i>Sebastes nigrocinctus</i>	3.55	0.00	1.1	2.62	2.450
	<i>Sebastes flavidus</i>	0.00	0.00	29.7	91.53	3.083
	<i>Sebastes zacentrus</i>	0.00	3.56	9.0	25.82	2.881
	<i>Sebastes alutus</i>	0.00	0.00	3.0	21.14	7.071
	<i>Sebastes babcocki</i>	0.00	0.00	0.2	1.51	7.071
	<i>Sebastes entomelas</i>	0.00	0.00	0.0	0.00	
	<i>Sebastes elongatus</i>	7.11	10.69	57.1	67.91	1.189
	<i>Sebastes maliger</i>	0.00	0.00	0.1	0.70	4.949
	<i>Sebastes proriger</i>	0.00	74.82	10.5	19.67	1.881
	<i>Sebastes brevispinis</i>	0.00	0.00	0.9	3.09	3.624
	<i>Sebastolobus alascanus</i>	0.00	0.00	2.4	17.11	7.071
	<i>Sebastes chlorostictus</i>	0.00	0.00	0.1	0.50	7.071
	<i>Sebastes paucispinus</i>	0.00	0.00	0.0	0.00	
	<i>Sebastes</i> spp	532.97	908.55	1073.7	1342.60	1.250
	<i>Ophiodon elongatus</i>	31.98	35.63	18.9	40.57	2.143
	<i>Hexagrammos</i> spp	7.11	7.13	1.4	2.86	2.120
	<i>Hippoglossus stenolepis</i>	0.00	0.00	6.4	12.90	2.015
	<i>Atheresthes stomias</i>	0.00	0.00	0.9	3.35	3.629
	<i>Microstomus pacificus</i>	14.21	3.56	12.2	18.73	1.531
	<i>Eopsetta jordani</i>	28.43	0.00	5.1	8.42	1.666
	<i>Pleuronectiformes</i>	88.83	71.26	88.3	104.63	1.185
	<i>Raja rhina</i>	7.11	0.00	2.6	3.45	1.347
	<i>Raja binoculata</i>	0.00	3.56	0.9	2.47	2.672
	<i>Bathyraja kincaidi</i>	3.55	7.13	1.8	3.39	1.906
	<i>Hydrolagus colliei</i>	3.55	0.00	7.9	13.44	1.701
	<i>Squalus acanthias</i>	0.00	0.00	2.1	14.10	6.608
	<i>Gadus macrocephalus</i>	0.00	0.00	5.2	7.97	1.535
	<i>Theragra chalcogramma</i>	0.00	0.00	6.0	42.27	7.071
	<i>Clupea harengus</i>	0.00	0.00	0.1	0.50	7.071
	<i>Zaprora silenus</i>	0.00	0.00	0.1	0.50	7.071
	<i>Anarrhichthys ocellatus</i>	0.00	0.00	0.1	1.01	7.071
	<i>Eptatretus stouti</i>	0.00	0.00	1.1	5.28	4.960
	<i>Anoplopoma fimbria</i>	0.00	0.00	0.0	0.00	



Table B.2. Bray-curtis similarity matrix for transect-scale analyses. Similarity values were calculated for every pair of samples ( $n = 50$ ). Samples were identified by the *Delta* dive number for each transect. Data were fourth-root transformed prior to calculating similarity values.

Sample	Sample 5642	5643	5644	5645	5646	5647	5648	5649	5650	5651
5642										
5643	49.684									
5644	27.180	46.166								
5645	56.210	67.955	38.703							
5646	40.936	58.308	74.141	60.231						
5647	44.807	54.716	41.245	57.391	49.329					
5648	37.095	33.917	49.451	36.309	44.587	41.010				
5649	40.527	55.735	61.345	61.463	73.289	53.895	57.460			
5650	51.220	62.458	71.206	64.566	79.701	55.559	51.504	75.565		
5651	5.727	13.669	34.078	9.701	16.785	15.651	34.609	15.626	16.291	
5652	48.172	66.403	36.469	59.556	52.164	48.867	35.781	49.109	54.657	0.000
5653	47.072	66.753	49.788	66.857	68.173	47.599	47.603	70.510	67.874	17.608
5654	37.191	56.918	37.332	47.158	54.778	41.055	43.972	72.230	55.533	0.000
5655	11.287	25.299	41.936	16.763	27.436	24.872	31.162	20.189	32.948	75.003
5656	17.750	37.574	56.996	26.486	42.452	32.000	39.483	37.061	45.379	53.643
5657	34.844	55.716	61.654	43.485	54.856	47.860	41.559	52.619	57.267	39.166
5658	29.719	43.571	56.560	35.345	42.725	48.639	58.866	45.043	53.746	56.101
5659	30.500	45.752	52.583	33.283	35.112	46.084	51.521	37.429	45.597	48.501
5660	41.102	52.278	62.161	52.395	46.800	55.623	49.765	57.598	51.698	42.893
5661	29.406	36.383	45.767	37.237	31.795	47.240	45.973	31.266	44.433	59.865
5662	16.012	21.881	40.528	19.598	23.149	32.145	38.376	22.236	32.175	78.954
5663	48.498	68.722	56.751	72.584	76.960	58.260	44.055	72.112	75.600	19.251
5664	30.976	61.812	56.711	59.094	56.605	52.872	34.434	56.765	60.561	27.093
5665	19.533	35.351	58.439	27.332	46.543	37.380	57.327	50.015	49.725	44.323
5666	29.006	40.767	64.826	39.941	52.214	35.985	53.499	57.494	56.306	51.878
5667	43.792	47.816	54.461	47.585	47.457	51.976	71.546	59.549	54.280	31.967
5668	33.978	53.385	57.604	39.561	53.095	46.613	53.172	47.844	48.959	46.511
5669	37.857	37.772	57.392	37.678	50.394	48.685	62.713	57.247	53.330	44.957
5670	31.617	42.470	57.996	31.383	47.562	44.572	59.419	44.367	49.370	48.390
5671	24.735	32.545	53.922	25.330	48.507	41.326	54.359	45.774	48.784	52.704
5672	37.337	53.857	68.357	50.379	62.889	54.313	52.256	66.504	58.901	32.517
5673	29.743	34.149	60.333	29.408	51.721	42.387	67.968	47.598	53.994	40.405
5674	37.760	57.475	67.423	45.436	55.513	50.817	57.055	67.443	66.954	24.520
5675	21.100	35.429	66.766	30.159	44.013	33.899	47.147	50.754	48.945	45.713
5676	24.233	37.764	49.989	34.784	34.569	42.407	44.542	46.073	39.146	55.715
5677	28.539	47.435	68.229	37.605	53.780	44.032	51.414	53.910	63.329	42.862
5678	24.370	41.840	61.370	42.180	48.960	49.547	62.378	59.055	54.049	31.144
5679	27.136	43.629	58.377	36.489	44.407	38.713	52.952	55.169	47.154	46.470
5680	35.847	58.358	66.473	54.492	61.405	50.397	43.831	53.502	64.467	34.890
5681	14.849	29.818	49.579	20.478	36.879	35.127	50.108	31.934	40.542	62.247
5682	20.005	40.870	60.750	30.013	44.735	34.469	47.706	48.378	48.750	46.270
5684	28.348	43.094	64.392	36.063	44.698	45.005	47.236	38.101	48.609	52.601
5685	40.058	38.573	52.646	36.381	50.611	51.051	54.673	49.656	54.824	45.886
5686	21.520	49.772	55.839	41.559	53.884	42.141	42.062	46.024	50.777	37.007
5687	20.961	42.351	70.428	31.577	55.099	30.104	49.088	41.958	43.682	54.373
5688	18.533	41.157	58.704	32.525	45.446	35.618	53.609	42.022	47.709	53.662
5689	27.376	42.930	55.742	40.577	47.796	41.469	59.089	55.133	44.206	56.245
5690	18.244	34.320	54.707	34.343	45.107	38.797	34.700	37.945	37.816	52.169
5691	40.349	48.059	60.473	44.871	54.543	44.390	53.194	48.479	57.469	48.970
5692	20.382	42.662	61.404	28.736	46.887	33.008	57.756	46.738	49.467	48.236

Sample	Sample 5652	5653	5654	5655	5656	5657	5658	5659	5660	5661
5642										
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5650										
5651										
5652										
5653	53.545									
5654	65.584	63.297								
5655	21.655	21.981	7.042							
5656	37.978	34.382	23.886	79.073						
5657	48.053	51.042	37.970	56.975	72.575					
5658	29.464	36.792	27.996	63.239	64.325	67.365				
5659	30.012	35.318	20.803	56.786	61.709	72.980	84.337			
5660	49.498	47.572	36.903	44.944	60.478	71.422	63.958	67.939		
5661	29.149	33.028	13.871	62.430	62.744	62.421	78.490	68.656	59.856	
5662	9.876	16.931	0.000	69.081	58.094	48.329	66.558	58.108	57.011	74.644
5663	61.267	77.625	54.061	29.044	45.281	64.653	48.180	46.558	63.764	44.035
5664	54.813	60.044	31.128	38.583	50.466	55.303	45.314	48.453	64.756	49.555
5665	37.106	31.339	35.325	52.677	62.263	68.232	66.921	64.557	54.271	59.644
5666	42.097	42.352	47.510	54.298	62.526	65.422	60.329	52.759	61.181	51.870
5667	38.053	54.436	47.983	35.270	48.236	63.101	62.141	62.000	62.035	54.897
5668	49.112	52.870	36.546	55.087	66.396	73.403	62.403	63.856	58.428	58.243
5669	43.589	49.279	37.908	53.163	62.411	70.090	67.611	65.183	66.254	58.886
5670	39.643	42.971	28.350	53.820	60.654	70.947	73.740	75.700	59.728	66.266
5671	33.857	35.990	31.231	60.345	66.885	67.688	73.943	68.325	56.008	63.898
5672	56.146	52.424	52.772	39.855	55.044	70.524	53.149	50.651	71.523	47.535
5673	35.755	36.352	33.642	46.739	54.097	59.991	71.232	67.108	53.368	56.401
5674	54.643	54.605	59.411	32.205	45.840	66.523	54.280	52.640	61.294	50.266
5675	32.758	33.305	34.873	60.574	75.647	67.357	64.692	63.102	63.719	54.251
5676	30.833	31.373	35.142	69.487	74.640	64.404	68.391	66.199	71.184	55.011
5677	39.398	39.687	37.104	58.319	68.641	73.533	77.068	69.550	62.247	63.362
5678	44.827	45.185	42.508	40.893	56.261	66.765	66.837	60.240	63.505	64.013
5679	40.035	62.085	40.213	55.604	73.767	71.980	54.853	57.575	67.154	56.592
5680	58.927	53.703	30.870	50.783	62.792	68.667	54.858	51.654	67.118	58.937
5681	22.921	25.013	15.946	66.094	62.477	60.429	80.357	68.700	52.476	74.687
5682	35.062	44.074	35.731	62.124	79.699	64.863	60.657	57.642	61.836	56.851
5684	29.846	38.455	26.629	63.833	74.747	62.472	75.275	70.263	69.172	70.547
5685	38.144	55.149	31.632	59.045	58.706	61.646	63.200	56.712	52.472	63.529
5686	40.740	45.075	32.303	54.713	62.107	57.060	58.466	50.345	48.588	49.868
5687	43.135	47.237	28.490	58.882	70.893	63.882	52.638	49.941	63.366	53.823
5688	36.508	38.806	31.462	65.886	71.679	65.880	76.780	68.334	55.517	66.004
5689	33.426	45.409	43.021	50.969	58.020	60.085	69.827	62.946	70.296	50.984
5690	24.400	40.107	17.859	55.904	59.418	61.659	59.631	57.384	50.570	68.075
5691	49.495	59.187	36.925	65.801	67.261	70.537	60.759	54.556	57.509	61.853
5692	28.551	49.185	35.654	53.641	60.062	60.528	66.563	60.597	46.717	57.282

Sample	Sample 5662	5663	5664	5665	5666	5667	5668	5669	5670	5671
5642										
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5660										
5661										
5662										
5663	31.728									
5664	43.696	72.317								
5665	45.016	41.439	36.200							
5666	45.047	46.281	34.090	78.797						
5667	35.475	52.163	36.871	62.466	62.021					
5668	40.373	54.641	52.127	60.212	55.268	67.427				
5669	43.673	49.052	46.532	69.464	60.477	67.296	74.329			
5670	50.801	50.362	44.855	76.691	61.329	67.118	73.837	77.719		
5671	54.296	45.338	40.579	74.042	63.723	54.424	70.205	76.900	81.506	
5672	38.407	61.334	50.260	62.988	69.227	65.000	60.029	69.615	65.682	64.408
5673	43.515	47.107	40.244	74.127	61.023	70.005	66.336	72.222	76.896	75.417
5674	31.486	55.545	46.261	70.321	67.260	72.392	62.418	64.166	62.203	55.474
5675	44.173	37.941	34.062	71.939	80.193	62.093	57.845	62.480	61.355	61.474
5676	52.712	41.922	39.064	61.180	67.766	60.177	59.180	63.777	58.564	63.616
5677	51.624	53.895	46.744	81.693	76.895	59.621	56.807	65.583	70.473	70.382
5678	38.421	55.511	50.630	79.962	64.726	71.196	64.376	75.121	71.335	68.577
5679	44.950	58.571	57.324	55.268	55.364	66.076	70.425	72.794	63.406	60.337
5680	49.684	65.495	78.535	54.110	53.420	45.885	66.339	61.484	56.547	55.014
5681	67.548	38.669	38.570	69.738	57.573	48.210	53.620	59.802	64.933	65.440
5682	52.302	48.234	54.755	54.426	53.817	55.770	60.870	60.309	53.166	58.914
5684	60.704	44.043	49.837	60.382	62.421	59.737	55.438	54.103	63.024	59.232
5685	50.190	52.608	49.871	49.199	43.113	58.968	73.199	73.777	67.092	63.888
5686	36.970	51.149	56.507	45.745	44.208	45.261	65.597	55.112	55.096	54.689
5687	52.522	50.111	56.740	54.428	59.874	49.881	67.625	60.595	57.605	56.865
5688	51.660	48.303	45.982	74.391	65.529	56.902	63.913	66.778	71.923	71.083
5689	47.943	45.563	38.768	63.397	70.304	59.456	63.221	73.776	65.187	69.514
5690	52.411	45.802	48.458	51.746	44.206	47.592	66.025	64.450	59.589	63.227
5691	47.586	58.233	54.436	53.291	54.168	59.018	73.968	72.091	64.007	62.046
5692	41.403	41.687	42.273	69.661	56.020	64.632	67.211	69.226	70.264	62.338

Sample	Sample 5672	5673	5674	5675	5676	5677	5678	5679	5680	5681
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5667										
5668										
5669										
5670										
5671										
5672										
5673	57.497									
5674	77.235	60.916								
5675	65.163	56.564	61.328							
5676	56.753	55.364	48.671	76.340						
5677	66.058	70.548	66.379	77.454	69.466					
5678	69.971	73.055	74.566	65.343	57.125	73.785				
5679	63.422	54.554	57.197	66.594	61.385	58.008	69.132			
5680	65.990	53.750	61.391	50.681	47.119	64.801	59.959	57.575		
5681	42.471	60.738	43.839	55.362	57.301	70.075	62.022	51.562	48.867	
5682	50.992	52.105	48.945	65.698	66.336	61.071	58.060	78.996	59.899	61.697
5684	48.957	58.063	48.962	69.649	76.209	69.294	56.419	60.112	53.590	69.227
5685	56.110	61.441	55.243	44.831	52.796	49.888	56.699	64.664	59.207	52.380
5686	43.972	51.347	40.996	50.383	58.915	56.267	53.135	57.065	67.787	53.235
5687	64.271	51.419	55.444	63.289	52.705	57.935	58.454	73.932	67.523	53.875
5688	51.745	70.330	52.711	68.169	70.267	77.380	72.537	66.272	54.348	77.737
5689	64.035	63.053	53.984	67.253	74.637	65.072	62.858	57.498	52.315	55.054
5690	53.290	53.247	47.920	49.933	50.723	55.188	63.508	64.522	60.517	55.709
5691	58.412	59.073	57.057	54.316	56.329	59.009	62.042	76.108	66.726	58.015
5692	49.965	67.255	61.945	57.946	54.536	65.323	69.353	68.832	49.706	65.029

Sample	Sample 5682	5684	5685	5686	5687	5688	5689	5690	5691	5692
5642										
5643										
5644										
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5679										
5680										
5681										
5682										
5684	72.238									
5685	52.793	52.039								
5686	73.147	61.405	52.819							
5687	71.244	60.971	56.648	56.692						
5688	73.832	75.332	52.457	70.563	62.924					
5689	53.496	65.375	51.077	56.043	57.355	71.006				
5690	61.956	53.313	62.154	64.369	63.880	65.898	54.749			
5691	73.052	59.200	73.562	70.495	76.060	70.715	55.842	71.832		
5692	68.560	67.147	58.517	64.611	62.642	83.826	66.883	66.844	73.759	

**APPENDIX C: SUMMARY OF DATA USED IN PATCH-SCALE  
MULTIVARIATE ANALYSES**

Table C.1. Samples were patches of 100 to 120m<sup>2</sup> in area. Factors included bottom type, boulder type, and invertebrate categories. Fish species density data were in numbers per hectare. Bottom type categories: SM = sand-mud; SP = sand-pebble; SPC = mixed sand, pebble, and cobble; PS = pebble-sand; B1 = scattered boulder on sand, pebble, and cobble; B = mixed scattered, contiguous, or stacked boulder on sand, pebble, and cobble. Boulder types indicate the dominant boulder presence ( $\geq 50\%$ ) on a sample. Categories: none = mainly no boulders; scattered = mainly scattered boulders; mixed  $\geq 50\%$  scattered, contiguous, or stacked boulder. Invertebrate categories (based on counts): absent = 0; present  $\geq 0$ .

SAMPLE		1	2	3	4	5	6
LABEL		SP_5644_5	SP_5644_19	SP_5644_21	SM_5648_3	B1_5648_8	B1_5651_7
	DELTA DIVE	5644	5644	5644	5648	5648	5651
	AREA (m <sup>2</sup> )	104.7	104.7	106.1	105.7	113.3	102.3
	BOTTOM	SP	SP	SP	SM	B1	B1
	BOULDER	none	none	isolate	none	scattered	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	present
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florometra serratissima</i>	absent	absent	absent	absent	present	present
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	present	absent	absent	absent	absent
	Vase sponge	absent	absent	absent	absent	absent	absent
	Cup sponge	absent	absent	present	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	176.6	97.7
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	88.3	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	0.0	0.0	94.6	0.0	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	191.0	95.5	0.0	94.6	529.7	977.4
	<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	95.5	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	382.1	95.5	94.3	283.8	264.9	0.0
	<i>Raja rhina</i>	95.5	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	94.6	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		7	8	9	10	11	12
LABEL		B1_5651_9	B1_5655_18	SP_5656_13	SP_5656_25	B1_5656_26	B1_5656_28
DELTA DIVE		5651	5655	5656	5656	5656	5656
AREA (m <sup>2</sup> )		102.3	113.5	118.5	107.8	118.5	102.5
BOTTOM		B1	B1	SP	SP	B1	B1
BOULDER		scattered	scattered	none	isolate	scattered	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florometra serratissima</i>	present	present	present	present	present	present
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	absent	absent	absent	absent	absent
	Vase sponge	absent	absent	absent	absent	absent	present
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	97.7	0.0	84.4	0.0	337.7	682.6
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	0.0	0.0	185.4	0.0	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	97.5
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	293.2	4315.6	759.8	463.6	1097.5	3608.2
	<i>Ophiodon elongatus</i>	0.0	264.2	0.0	0.0	0.0	97.5
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	84.4	0.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	92.7	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0



SAMPLE		13	14	15	16	17	18	
LABEL		B1_5656_42	SP_5656_43	B1_5657_5	B1_5657_9	PS_5657_10	B1_5658_2	
DELTA DIVE		5656	5656	5657	5657	5657	5658	
AREA (m <sup>2</sup> )		114.9	106.1	110.7	105.5	118.4	115.8	
BOTTOM		B1	SP	B1	B1	PS	B1	
BOULDER		scattered	none	scattered	scattered	none	scattered	
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent	
	<i>Virgularia</i> sp	absent	absent	present	present	present	absent	
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent	
	Anemone	absent	absent	absent	absent	absent	absent	
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent	
	<i>Florometra serratissima</i>	present	present	absent	absent	absent	present	
	Finger sponge	absent	absent	absent	absent	absent	absent	
	Cloud sponge	absent	absent	absent	absent	absent	absent	
	Vase sponge	absent	absent	absent	absent	absent	absent	
	Cup sponge	absent	absent	absent	absent	absent	absent	
	Basket sponge	absent	absent	absent	absent	absent	absent	
	Sheet sponge	absent	absent	absent	absent	absent	absent	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
		<i>Sebastes pinniger</i>	0.0	0.0	0.0	189.5	1098.1	0.0
<i>Sebastes helvomaculatus</i>		87.0	0.0	180.7	284.3	0.0	259.1	
<i>Sebastes nigrocinctus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes flavidus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes zacentrus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		0.0	94.3	0.0	0.0	168.9	0.0	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes brevispinis</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		1218.2	848.4	4699.0	1516.4	506.8	4663.6	
<i>Ophiodon elongatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hexagrammos</i> spp		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hippoglossus stenolepis</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Atheresthes stomias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Microstomus pacificus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eopsetta jordani</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Pleuronectiformes</i>		0.0	0.0	0.0	94.8	84.5	0.0	
<i>Raja rhina</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Raja binoculata</i>		0.0	0.0	0.0	0.0	84.5	0.0	
<i>Bathyraja kincaidi</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hydrolagus colliei</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		

SAMPLE		19	20	21	22	23	24
LABEL		B1_5659_14	B1_5660_6	PS_5660_13	PS_5660_19	B1_5661_2	PS_5661_7
DELTA DIVE		5659	5660	5660	5660	5661	5661
AREA (m <sup>2</sup> )		115.7	111.1	118.0	108.8	101.9	108.9
BOTTOM		B1	B1	PS	PS	B1	PS
BOULDER		scattered	scattered	none	none	scattered	none
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	present	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florometra serratissima</i>	present	present	present	present	present	present
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	absent	absent	absent	absent	absent
	Vase sponge	absent	absent	absent	absent	absent	absent
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	0.0	90.0	0.0	0.0	392.4	0.0
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	0.0	0.0	91.9	0.0	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	5703.8	1889.9	84.8	183.8	1275.4	183.6
	<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	91.8
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	91.8
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		25	26	27	28	29	30
LABEL		PS_5662_4	B1_5662_19	PS_5662_24	SP_5663_3	SP_5668_33	SP_5668_54
DELTA DIVE		5662	5662	5662	5663	5668	5668
AREA (m <sup>2</sup> )		113.4	109.2	102.9	108.3	105.4	100.2
BOTTOM		PS	B1	PS	SP	SP	SP
BOULDER		scattered	scattered	none	scattered	none	isolate
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	present
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	present	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florumetra serratissima</i>	present	absent	absent	absent	absent	absent
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	absent	absent	absent	absent	absent
	Vase sponge	absent	absent	absent	absent	absent	absent
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	94.9	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	875.0	0.0	0.0	99.8
	<i>Sebastes helvomaculatus</i>	0.0	274.8	0.0	0.0	0.0	299.4
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	264.7	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	92.3	0.0	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	94.9	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	88.2	0.0	0.0	369.2	474.4	399.2
	<i>Ophiodon elongatus</i>	0.0	91.6	97.2	0.0	0.0	0.0
	<i>Hexagrammos</i> spp	0.0	0.0	97.2	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	184.6	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	0.0	0.0	0.0	92.3	0.0	0.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	88.2	0.0	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		31	32	33	34	35	36
LABEL		B1_5669_5	B1_5669_21	SM_5669_28	SM_5670_4	SM_5672_2	B1_5672_3
DELTA DIVE		5669	5669	5669	5670	5672	5672
AREA (m <sup>2</sup> )		117.5	106.5	109.3	118.0	102.5	104.8
BOTTOM		B1	B1	SM	SM	SM	B1
BOULDER		scattered	scattered	none	isolate	none	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florumetra serratissima</i>	absent	absent	absent	absent	absent	absent
	Finger sponge	absent	absent	absent	absent	absent	present
	Cloud sponge	absent	absent	absent	absent	absent	absent
	Vase sponge	absent	absent	absent	absent	absent	absent
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	170.3	93.9	0.0	0.0	97.6	95.4
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	0.0	0.0	169.5	0.0	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	425.7	3473.3	0.0	169.5	0.0	381.7
	<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	0.0	93.9	457.6	254.2	878.0	95.4
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	95.4
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		37	38	39	40	41	42
LABEL		B1_5672_15	SM_5672_34	B1_5672_35	B1_5675_10	B1_5676_6	B1_5677_2
	DELTA DIVE	5672	5672	5672	5675	5676	5677
	AREA (m <sup>2</sup> )	108.2	113.9	110.5	106.9	119.6	100.7
	BOTTOM	B1	SM	B1	B1	B1	B1
	BOULDER	scattered	none	scattered	scattered	scattered	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florometra serratissima</i>	absent	absent	absent	absent	present	present
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	absent	absent	present	present	present
	Vase sponge	absent	absent	absent	present	present	present
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	0.0	0.0	271.5	93.6	167.2	595.5
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	297.8
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	92.4	0.0	90.5	0.0	167.2	198.5
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	369.7	0.0	995.6	3556.0	4011.9	9230.8
	<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	184.8	702.4	0.0	0.0	0.0	0.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	83.6	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	90.5	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		43	44	45	46	47	48
LABEL		B1_5679_8	B1_5680_9	B1_5681_13	B_5684_8	PS_5684_13	PS_5684_23
DELTA DIVE		5679	5680	5681	5684	5684	5684
AREA (m <sup>2</sup> )		104.4	108.2	119.5	117.7	102.2	113.0
BOTTOM		B1	B1	B1	B_	PS	PS
BOULDER		scattered	scattered	scattered	scattered	none	none
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent
	Anemone	absent	absent	absent	absent	absent	absent
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent
	<i>Florometra serratissima</i>	present	present	present	present	absent	absent
	Finger sponge	absent	absent	absent	absent	absent	absent
	Cloud sponge	absent	absent	absent	absent	absent	absent
	Vase sponge	present	absent	absent	absent	absent	absent
	Cup sponge	absent	absent	absent	absent	absent	absent
	Basket sponge	absent	absent	absent	absent	absent	absent
	Sheet sponge	absent	absent	absent	absent	absent	absent
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes helvomaculatus</i>	287.3	92.4	167.4	339.9	0.0	0.0
	<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	0.0	92.4	83.7	0.0	0.0	0.0
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	0.0	85.0	0.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	1819.5	7948.7	4184.8	1699.4	782.7	884.6
	<i>Ophiodon elongatus</i>	0.0	0.0	83.7	0.0	0.0	0.0
	<i>Hexagrammos</i> spp	0.0	92.4	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	0.0	0.0	83.7	0.0	0.0	0.0
	<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	97.8	0.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	0.0	83.7	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0

SAMPLE		49	50	51	52	53	54	
LABEL		PS_5684_31	PS_5684_35	SP_5687_48	B_5689_20	SP_5690_31	B_5690_42	
DELTA DIVE		5684	5684	5687	5689	5690	5690	
AREA (m <sup>2</sup> )		102.2	116.1	100.2	118.6	112.7	119.8	
BOTTOM		PS	PS	SP	B_	SP	B_	
BOULDER		none	none	none	scattered	scattered	scattered	
Invertebrates	<i>Ptilosarcus gurneyi</i>	absent	absent	absent	absent	absent	absent	
	<i>Virgularia</i> sp	absent	absent	absent	absent	absent	absent	
	<i>Balticina septentrionalis</i>	absent	absent	absent	absent	absent	absent	
	Anemone	absent	absent	absent	absent	absent	present	
	<i>Gorgonocephalus eucnemis</i>	absent	absent	absent	absent	absent	absent	
	<i>Florometra serratissima</i>	present	present	absent	present	present	absent	
	Finger sponge	absent	absent	absent	absent	absent	absent	
	Cloud sponge	absent	absent	absent	present	absent	absent	
	Vase sponge	absent	absent	absent	absent	absent	absent	
	Cup sponge	absent	absent	absent	absent	absent	absent	
	Basket sponge	absent	absent	absent	absent	absent	absent	
	Sheet sponge	absent	absent	absent	absent	absent	absent	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	88.7	0.0
		<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>		0.0	0.0	0.0	0.0	177.4	83.5	
<i>Sebastes nigrocinctus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes flavidus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes zacentrus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		195.7	0.0	0.0	84.3	0.0	0.0	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes brevispinis</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		1076.3	0.0	0.0	2528.7	532.2	417.4	
<i>Ophiodon elongatus</i>		97.8	0.0	0.0	0.0	88.7	0.0	
<i>Hexagrammos</i> spp		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hippoglossus stenolepis</i>		0.0	0.0	0.0	0.0	177.4	167.0	
<i>Atheresthes stomias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Microstomus pacificus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eopsetta jordani</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Pleuronectiformes</i>		0.0	86.1	0.0	0.0	0.0	0.0	
<i>Raja rhina</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Raja binoculata</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bathyraja kincaidi</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hydrolagus colliei</i>		97.8	0.0	0.0	0.0	0.0	0.0	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		

SAMPLE	55	56	57	Average	Std Dev.	CV
LABEL	B_5690_46	B_5691_17	B1_5692_41			
DELTA DIVE	5690	5691	5692			
AREA (m <sup>2</sup> )	105.7	111.0	108.0	109.7	6.00	0.0547
BOTTOM	B_	B_	B1			
BOULDER	scattered	scattered	scattered			
Invertebrates						
<i>Ptilosarcus gurneyi</i>	absent	absent	absent			
<i>Virgularia</i> sp	absent	absent	absent			
<i>Balticina septentrionalis</i>	absent	absent	absent			
Anemone	present	absent	absent			
<i>Gorgonocephalus eucnemis</i>	present	absent	absent			
<i>Florometra serratissima</i>	present	absent	present			
Finger sponge	absent	absent	absent			
Cloud sponge	absent	absent	present			
Vase sponge	absent	absent	absent			
Cup sponge	absent	absent	absent			
Basket sponge	absent	absent	absent			
Sheet sponge	absent	absent	absent			
Fish species						
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	3.2	17.05	5.294
<i>Sebastes pinniger</i>	0.0	0.0	0.0	39.7	185.53	4.674
<i>Sebastes helvomaculatus</i>	283.8	90.1	185.1	116.4	152.23	1.308
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes flavidus</i>	0.0	0.0	0.0	4.6	35.05	7.550
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	8.4	42.46	5.060
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes elongatus</i>	0.0	0.0	0.0	33.4	61.00	1.826
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes proriger</i>	0.0	0.0	0.0	3.2	16.98	5.304
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Sebastes</i> spp	756.9	0.0	1295.7	1457.4	2012.99	1.381
<i>Ophiodon elongatus</i>	94.6	90.1	0.0	19.3	47.43	2.464
<i>Hexagrammos</i> spp	0.0	0.0	0.0	3.3	17.61	5.292
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	9.3	35.84	3.842
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.00	
<i>Microstomus pacificus</i>	0.0	0.0	0.0	4.7	26.67	5.665
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.00	
<i>Pleuronectiformes</i>	0.0	0.0	92.6	77.5	170.07	2.194
<i>Raja rhina</i>	0.0	0.0	0.0	1.7	12.65	7.550
<i>Raja binoculata</i>	0.0	0.0	0.0	1.5	11.19	7.550
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	3.3	17.39	5.291
<i>Hydrolagus colliei</i>	94.6	0.0	0.0	7.9	25.63	3.261
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.00	
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	1.6	11.99	7.550
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.00	
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.00	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	1.7	12.64	7.550
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.00	



Table C.2. Bray-curtis similarity matrix for patch-scale analyses. Similarity values were calculated for every pair of samples (n = 57). Data were fourth-root transformed prior to calculating similarity values.

Sample	Sample SP 5644_5	SP 5644_19	SP 5644_21	SM 5648_3	B1 5648_8	B1 5651_7	B1 5651_9	B1 5655_18	SP 5656_13
SP_5644_5									
SP_5644_19	60.575								
SP_5644_21	43.333	49.876							
SM_5648_3	58.425	54.686	37.596						
B1_5648_8	57.834	50.179	33.401	49.325					
B1_5651_7	37.176	34.517	0.000	28.101	65.424				
B1_5651_9	40.089	37.528	0.000	30.070	63.812	90.927			
B1_5655_18	31.773	29.060	0.000	24.367	34.665	53.577	42.619		
SP_5656_13	38.040	35.405	0.000	28.688	65.722	97.330	92.128	51.426	
SP_5656_25	32.758	30.042	0.000	75.042	34.403	46.013	44.220	39.373	47.073
B1_5656_26	55.458	54.849	37.446	46.354	80.193	80.110	71.550	45.661	77.559
B1_5656_28	24.449	21.919	0.000	19.128	48.677	62.661	55.109	69.639	60.386
B1_5656_42	36.760	34.091	0.000	27.817	64.084	97.703	88.551	56.002	96.052
SP_5656_43	37.595	34.947	0.000	56.747	39.887	62.579	52.397	52.272	62.523
B1_5657_5	32.034	29.321	0.000	24.550	61.428	84.478	75.746	67.310	81.882
B1_5657_9	48.082	47.043	30.709	40.726	70.679	67.424	59.546	42.575	65.057
PS_5657_10	42.942	41.680	26.039	55.123	43.551	32.829	30.148	29.373	33.354
B1_5658_2	31.586	28.874	0.000	24.235	60.700	83.152	74.469	66.401	80.569
B1_5659_14	37.260	34.603	0.000	28.158	39.595	64.173	51.814	77.832	61.869
B1_5660_6	35.511	32.818	0.000	26.962	62.481	94.208	85.141	60.461	92.247
PS_5660_13	42.437	48.887	0.000	36.790	32.667	51.558	58.821	39.999	53.628
PS_5660_19	40.812	38.699	0.000	61.416	32.992	47.466	52.373	38.931	48.899
B1_5661_2	34.278	31.570	0.000	26.111	65.022	91.175	82.245	52.970	88.532
PS_5661_7	34.831	64.638	0.000	26.732	28.969	39.566	42.918	61.581	40.556
PS_5662_4	28.605	31.366	0.000	25.947	23.845	32.433	35.135	27.487	33.232
B1_5662_19	0.000	0.000	0.000	0.000	32.106	39.548	43.526	32.056	39.247
PS_5662_24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	26.325	0.000
SP_5663_3	53.398	52.655	35.659	44.850	70.769	38.110	38.402	33.201	38.878
SP_5668_33	33.532	30.819	0.000	51.189	35.288	47.514	45.495	40.502	48.639
SP_5668_54	32.251	29.537	0.000	24.702	59.381	74.191	76.366	37.362	74.743
B1_5669_5	38.288	35.661	0.000	28.856	68.825	91.017	94.349	44.770	92.157
B1_5669_21	54.280	53.597	36.581	45.546	74.872	76.898	68.453	58.964	74.662
SM_5669_28	55.646	44.648	80.504	45.388	40.007	0.000	0.000	0.000	0.000
SM_5670_4	67.641	67.641	43.504	82.939	56.827	36.180	39.024	30.909	37.024
SM_5672_2	44.543	34.804	53.255	37.234	59.489	36.286	39.610	0.000	35.941
B1_5672_3	54.611	53.952	36.847	45.817	72.745	66.976	68.918	34.088	67.500
B1_5672_15	66.004	60.848	43.615	80.432	60.431	44.050	44.845	37.623	45.079
SM_5672_34	53.874	43.041	75.410	44.113	38.996	0.000	0.000	0.000	0.000
B1_5672_35	27.427	24.788	0.000	42.333	53.796	71.076	62.975	40.149	68.648
B1_5675_10	33.649	30.936	0.000	25.675	59.964	88.937	80.027	67.239	86.653
B1_5676_6	25.258	22.693	0.000	39.434	49.788	64.927	57.215	52.514	62.607
B1_5677_2	21.924	19.522	0.000	34.546	60.264	55.668	48.660	46.600	53.547
B1_5679_8	33.932	31.221	0.000	25.872	64.472	90.134	81.229	57.328	87.497
B1_5680_9	24.778	22.233	0.000	38.624	46.071	63.261	55.626	52.493	61.285
B1_5681_13	21.242	18.880	0.000	33.029	42.740	53.801	46.952	61.700	51.726
B_5684_8	29.724	27.033	0.000	22.922	57.644	77.699	69.248	49.604	75.177
PS_5684_13	69.675	70.201	53.954	57.217	66.252	61.611	52.658	51.425	62.817
PS_5684_23	44.474	42.154	0.000	32.977	45.699	76.870	64.983	62.007	76.449
PS_5684_31	27.515	24.874	0.000	42.694	30.654	45.656	35.920	63.616	43.680
PS_5684_35	42.569	49.033	98.867	36.909	32.775	0.000	0.000	0.000	0.000
B_5689_20	34.768	32.064	0.000	52.148	37.387	59.303	47.554	63.718	57.059
SP_5690_31	25.201	45.278	0.000	19.676	49.983	58.922	57.067	51.829	59.079
B_5690_42	33.191	60.952	0.000	25.357	56.544	75.909	77.752	38.841	77.685
B_5690_46	27.690	25.044	0.000	21.472	54.242	68.984	63.686	60.337	69.349
B_5691_17	0.000	0.000	0.000	0.000	28.389	41.359	45.830	33.672	41.975
B1_5692_41	56.699	56.187	39.000	47.393	81.494	81.166	72.562	48.138	78.603

Sample	SP 5656 25	B1 5656 26	B1 5656 28	B1 5656 42	SP 5656 43	B1 5657 5	B1 5657 9	PS 5657 10	B1 5658 2
SP_5644_5									
SP_5644_19									
SP_5644_21									
SM_5648_3									
B1_5648_8									
B1_5651_7									
B1_5651_9									
B1_5655_18									
SP_5656_13									
SP_5656_25									
B1_5656_26	37.868								
B1_5656_28	30.348	62.336							
B1_5656_42	45.502	79.960	63.767						
SP_5656_43	77.770	50.003	39.024	61.768					
B1_5657_5	39.695	75.319	73.438	85.729	52.759				
B1_5657_9	32.437	85.242	56.968	68.572	42.016	68.034			
PS_5657_10	52.181	46.782	24.136	32.574	54.811	29.548	61.514		
B1_5658_2	39.143	77.064	74.866	84.397	51.922	98.509	69.618	29.248	
B1_5659_14	46.116	52.892	55.684	66.935	62.744	80.241	48.248	32.881	78.830
B1_5660_6	43.969	77.687	67.129	96.183	59.352	89.488	69.423	31.798	88.144
PS_5660_13	41.944	37.673	27.358	50.585	52.552	40.509	30.024	26.152	39.636
PS_5660_19	74.436	37.094	28.404	46.784	88.654	39.328	30.740	50.304	38.647
B1_5661_2	42.453	85.466	70.514	92.446	56.991	86.199	73.050	31.015	87.990
PS_5661_7	34.556	32.086	46.705	39.090	40.045	33.744	27.218	24.507	33.242
PS_5662_4	28.382	26.379	20.913	32.049	32.820	27.724	22.419	20.207	27.316
B1_5662_19	0.000	40.235	54.464	37.876	0.000	38.370	33.453	0.000	41.273
SP_5662_24	0.000	0.000	20.347	0.000	0.000	0.000	25.682	34.111	0.000
SP_5663_3	34.110	54.236	26.236	37.739	38.483	33.443	47.594	43.063	33.028
SP_5668_33	69.475	38.920	31.056	46.973	80.146	40.840	33.233	50.118	40.259
SP_5668_54	38.493	69.414	55.787	72.513	44.031	68.557	81.035	47.750	70.488
B1_5669_5	46.378	76.829	59.738	88.761	54.505	81.138	64.383	32.073	79.829
B1_5669_21	36.630	88.224	65.294	78.394	48.155	83.484	80.218	45.647	82.432
SM_5669_28	0.000	34.253	0.000	0.000	0.000	0.000	28.622	24.454	0.000
SM_5670_4	63.738	54.683	23.771	35.774	68.188	31.164	47.404	65.298	30.726
SM_5672_2	0.000	57.008	22.664	34.809	0.000	30.613	48.619	21.085	30.129
B1_5672_3	35.038	78.725	45.810	65.683	39.625	58.624	68.870	43.877	57.882
B1_5672_15	66.224	61.173	28.924	43.555	76.050	37.933	52.946	67.110	37.400
SM_5672_34	0.000	33.270	0.000	0.000	0.000	0.000	27.952	23.949	0.000
B1_5672_35	56.634	66.922	55.307	69.910	69.639	66.810	58.606	43.477	68.484
B1_5675_10	41.680	74.173	72.266	90.552	55.796	95.111	66.766	30.609	93.754
B1_5676_6	55.635	59.854	60.804	66.054	63.799	76.723	55.648	43.504	75.892
B1_5677_2	48.883	56.224	60.725	56.701	54.636	69.061	51.958	39.001	70.297
B1_5679_8	42.028	83.237	71.476	91.403	56.333	90.268	74.368	30.792	91.984
B1_5680_9	51.302	55.669	57.275	64.694	62.352	74.161	52.008	40.322	73.272
B1_5681_13	43.585	50.813	67.025	54.813	52.225	65.238	48.085	35.389	64.641
B_5684_8	36.851	74.877	83.596	78.918	48.483	78.510	66.909	27.976	80.170
PS_5684_13	46.711	77.372	38.355	60.809	62.421	51.906	65.669	54.372	51.080
PS_5684_23	54.956	58.872	44.338	75.662	77.284	62.687	48.197	37.035	61.521
PS_5684_31	61.272	39.732	50.825	46.340	70.149	41.349	34.782	46.482	40.863
PS_5684_35	0.000	37.608	0.000	0.000	0.000	0.000	30.125	26.117	0.000
B_5689_20	71.169	49.629	48.457	61.917	90.446	64.270	45.719	51.334	63.323
SP_5690_31	31.275	53.987	61.634	57.770	35.907	56.004	47.732	24.706	55.398
B_5690_42	40.052	62.309	49.813	75.054	46.005	65.352	53.278	28.875	64.432
B_5690_46	34.345	65.244	71.794	67.614	43.528	64.734	57.072	26.539	66.447
B_5691_17	0.000	32.032	48.690	40.391	0.000	34.027	26.400	0.000	33.418
B1_5692_41	38.312	96.471	60.671	82.403	50.669	78.155	85.359	47.187	77.302

Sample	Sample	B1_5659_14	B1_5660_6	PS_5660_13	PS_5660_19	B1_5661_2	PS_5661_7	PS_5662_4	B1_5662_19	PS_5662_24
SP_5644_5										
SP_5644_19										
SP_5644_21										
SM_5648_3										
B1_5648_8										
B1_5651_7										
B1_5651_9										
B1_5655_18										
SP_5656_13										
SP_5656_25										
B1_5656_26										
B1_5656_28										
B1_5656_42										
SP_5656_43										
B1_5657_5										
B1_5657_9										
PS_5657_10										
B1_5658_2										
B1_5659_14										
B1_5660_6	71.808									
PS_5660_13	51.757	47.753								
PS_5660_19	47.605	44.761	61.845							
B1_5661_2	62.519	90.109	45.081	42.801						
PS_5661_7	39.662	37.668	47.018	44.218	36.270					
PS_5662_4	32.511	30.900	45.982	36.181	29.770	30.594				
B1_5662_19	0.000	36.582	0.000	0.000	46.289	36.317	0.000			
PS_5662_24	0.000	0.000	0.000	0.000	0.000	28.674	0.000	32.765		
SP_5663_3	38.185	36.618	35.071	34.988	35.501	30.497	25.088	0.000	0.000	
SP_5668_33	47.624	45.349	43.522	76.644	43.748	35.428	29.088	0.000	0.000	
SP_5668_54	43.649	70.350	40.935	39.659	77.684	33.987	27.921	42.960	26.889	
B1_5669_5	53.930	85.509	54.235	49.313	87.772	40.841	33.462	47.159	0.000	
B1_5669_21	67.959	82.062	35.830	35.608	74.714	30.967	25.470	29.549	0.000	
SM_5669_28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
SM_5670_4	36.262	34.556	42.605	74.544	33.352	34.230	28.680	0.000	0.000	
SM_5672_2	0.000	33.736	0.000	0.000	33.059	0.000	0.000	39.904	0.000	
B1_5672_3	39.313	63.913	36.054	35.791	62.301	31.106	25.582	29.821	0.000	
B1_5672_15	44.151	42.069	42.714	75.518	40.602	34.984	28.729	0.000	0.000	
SM_5672_34	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
B1_5672_35	45.788	68.163	32.142	59.817	73.664	28.628	23.567	35.282	0.000	
B1_5675_10	79.109	94.348	43.762	41.815	85.480	35.559	29.194	34.562	0.000	
B1_5676_6	59.251	69.475	28.613	54.329	66.934	26.251	42.972	28.381	0.000	
B1_5677_2	55.459	59.855	23.627	46.066	63.047	22.638	18.680	27.313	0.000	
B1_5679_8	67.545	94.591	44.352	42.257	95.782	35.879	29.453	45.714	0.000	
B1_5680_9	63.354	68.080	27.864	53.115	62.231	25.728	21.204	23.934	20.357	
B1_5681_13	49.604	57.904	22.666	43.954	56.039	39.903	35.924	42.853	17.061	
B_5684_8	57.222	81.119	36.154	35.871	84.954	31.167	25.632	38.934	0.000	
PS_5684_13	61.774	58.421	52.912	48.406	56.087	40.217	32.959	0.000	0.000	
PS_5684_23	77.116	72.105	71.494	60.203	68.684	48.039	39.250	0.000	0.000	
PS_5684_31	46.855	45.044	32.292	60.153	43.748	52.880	47.293	26.992	22.856	
PS_5684_35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
B_5689_20	75.392	66.618	46.128	79.434	58.166	36.824	30.218	0.000	0.000	
SP_5690_31	35.670	56.483	28.524	29.434	58.972	70.045	21.580	52.890	20.487	
B_5690_42	45.593	72.489	42.820	41.103	69.957	64.510	28.776	33.030	0.000	
B_5690_46	43.210	65.914	32.587	32.925	71.882	53.235	47.607	62.985	22.843	
B_5691_17	0.000	38.902	0.000	0.000	37.143	38.428	0.000	92.466	34.459	
B1_5692_41	55.862	80.840	38.349	37.632	83.255	32.488	26.705	36.968	0.000	

Sample	SP 5663_3	SP 5668_33	SP 5668_54	B1_5669_5	B1_5669_21	SM_5669_28	SM_5670_4	SM_5672_2	B1_5672_3
SP_5644_5									
SP_5644_19									
SP_5644_21									
SM_5648_3									
B1_5648_8									
B1_5651_7									
B1_5651_9									
B1_5655_18									
SP_5656_13									
SP_5656_25									
B1_5656_26									
B1_5656_28									
B1_5656_42									
SP_5656_43									
B1_5657_5									
B1_5657_9									
PS_5657_10									
B1_5658_2									
B1_5659_14									
B1_5660_6									
PS_5660_13									
PS_5660_19									
B1_5661_2									
PS_5661_7									
PS_5662_4									
B1_5662_19									
PS_5662_24									
SP_5663_3									
SP_5668_33	34.821								
SP_5668_54	33.643	39.383							
B1_5669_5	39.098	47.654	81.046						
B1_5669_21	53.126	37.620	59.025	69.411					
SM_5669_28	32.811	0.000	0.000	0.000	33.601				
SM_5670_4	52.655	60.847	31.375	37.266	53.527	50.434			
SM_5672_2	27.124	0.000	30.847	37.546	55.365	70.019	40.342		
B1_5672_3	53.326	35.782	58.981	68.749	76.866	33.933	53.856	55.856	
B1_5672_15	58.827	67.798	38.191	45.375	59.801	46.680	92.896	37.322	60.157
SM_5672_34	31.927	0.000	0.000	0.000	32.679	94.650	48.822	74.967	32.996
B1_5672_35	29.113	57.945	61.726	67.955	58.693	0.000	49.474	25.727	50.912
B1_5675_10	34.927	42.932	67.013	80.608	87.223	0.000	32.738	32.034	61.150
B1_5676_6	27.023	53.558	53.835	61.820	67.275	0.000	49.034	23.489	47.204
B1_5677_2	40.539	46.414	50.113	52.945	59.037	0.000	42.624	20.123	41.407
B1_5679_8	35.185	43.299	76.537	86.739	78.563	0.000	33.015	32.679	61.737
B1_5680_9	26.556	52.390	49.587	56.827	66.026	0.000	44.794	22.690	46.224
B1_5681_13	38.983	44.399	45.410	51.041	57.329	0.000	37.958	19.445	40.206
B_5684_8	31.290	37.852	67.575	74.455	68.950	0.000	28.911	28.140	54.784
PS_5684_13	65.921	48.254	44.202	54.763	75.231	48.165	68.757	36.956	67.884
PS_5684_23	44.452	57.044	51.843	66.758	56.351	0.000	43.307	0.000	45.923
PS_5684_31	29.197	58.409	32.451	37.991	38.622	0.000	53.517	0.000	29.912
PS_5684_35	35.185	0.000	0.000	0.000	35.946	79.417	42.738	52.374	36.171
B_5689_20	35.945	73.199	40.799	49.708	59.036	0.000	62.240	0.000	36.961
SP_5690_31	26.968	53.078	54.075	61.790	49.255	0.000	24.503	23.430	47.106
B_5690_42	34.507	41.005	65.359	78.195	60.246	0.000	32.292	30.651	59.700
B_5690_46	29.364	35.227	62.638	68.694	56.683	0.000	26.929	26.002	51.359
B_5691_17	0.000	0.000	34.322	43.038	30.709	0.000	0.000	41.779	30.871
B1_5692_41	55.311	39.386	66.382	77.869	91.518	35.621	55.917	58.425	80.096

Sample	Sample	B1_5672_15	SM_5672_34	B1_5672_35	B1_5675_10	B1_5676_6	B1_5677_2	B1_5679_8	B1_5680_9	B1_5681_13
SP_5644_5										
SP_5644_19										
SP_5644_21										
SM_5648_3										
B1_5648_8										
B1_5651_7										
B1_5651_9										
B1_5655_18										
SP_5656_13										
SP_5656_25										
B1_5656_26										
B1_5656_28										
B1_5656_42										
SP_5656_43										
B1_5657_5										
B1_5657_9										
PS_5657_10										
B1_5658_2										
B1_5659_14										
B1_5660_6										
PS_5660_13										
PS_5660_19										
B1_5661_2										
PS_5661_7										
PS_5662_4										
B1_5662_19										
PS_5662_24										
SP_5663_3										
SP_5668_33										
SP_5668_54										
B1_5669_5										
B1_5669_21										
SM_5669_28										
SM_5670_4										
SM_5672_2										
B1_5672_3										
B1_5672_15										
SM_5672_34	45.184									
B1_5672_35	55.291	0.000								
B1_5675_10	39.853	0.000	65.429							
B1_5676_6	51.014	0.000	72.297	74.691						
B1_5677_2	44.263	0.000	66.300	64.706	74.223					
B1_5679_8	40.190	0.000	73.049	89.768	70.272	63.957				
B1_5680_9	50.042	0.000	68.242	73.185	76.710	75.584	65.539			
B1_5681_13	42.448	0.000	61.837	62.668	83.998	63.226	58.907	66.701		
B_5684_8	35.187	0.000	65.392	77.540	62.751	58.870	86.379	58.602	53.442	
PS_5684_13	76.808	46.311	43.570	54.906	39.758	34.033	55.437	38.923	32.881	
PS_5684_23	52.746	0.000	51.210	66.973	46.164	38.812	67.740	45.076	37.364	
PS_5684_31	55.590	0.000	55.068	43.081	72.776	49.302	43.382	51.176	74.952	
PS_5684_35	42.847	74.349	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
B_5689_20	69.643	0.000	66.603	67.685	71.541	61.770	62.892	70.128	59.752	
SP_5690_31	29.816	0.000	49.597	54.439	46.130	41.344	58.520	42.741	54.431	
B_5690_42	39.308	0.000	55.908	68.665	51.467	44.649	69.246	50.485	43.255	
B_5690_46	32.772	0.000	59.203	63.251	70.285	48.904	71.276	48.619	75.733	
B_5691_17	0.000	0.000	27.997	36.256	25.319	21.385	36.654	24.739	40.838	
B1_5692_41	62.485	34.582	64.995	77.130	61.979	54.675	82.671	57.717	52.543	

Sample	B 5684 8	PS 5684 13	PS 5684 23	PS 5684 31	PS 5684 35	B 5689 20	SP 5690 31	B 5690 42	B 5690 46	B 5691 17	B1 5692 41
SP_5644_5											
SP_5644_19											
SP_5644_21											
SM_5648_3											
B1_5648_8											
B1_5651_7											
B1_5651_9											
B1_5655_18											
SP_5656_13											
SP_5656_25											
B1_5656_26											
B1_5656_28											
B1_5656_42											
SP_5656_43											
B1_5657_5											
B1_5657_9											
PS_5657_10											
B1_5658_2											
B1_5659_14											
B1_5660_6											
PS_5660_13											
PS_5660_19											
B1_5661_2											
PS_5661_7											
PS_5662_4											
B1_5662_19											
PS_5662_24											
SP_5663_3											
SP_5668_33											
SP_5668_54											
B1_5669_5											
B1_5669_21											
SM_5669_28											
SM_5670_4											
SM_5672_2											
B1_5672_3											
B1_5672_15											
SM_5672_34											
B1_5672_35											
B1_5675_10											
B1_5676_6											
B1_5677_2											
B1_5679_8											
B1_5680_9											
B1_5681_13											
B_5684_8											
PS_5684_13	47.685										
PS_5684_23	56.797	76.171									
PS_5684_31	38.821	43.727	51.421								
PS_5684_35	0.000	53.066	0.000	0.000							
B_5689_20	53.792	57.011	70.031	67.681	0.000						
SP_5690_31	52.845	36.013	40.543	46.308	0.000	33.871					
B_5690_42	60.614	46.189	54.488	33.612	0.000	42.524	75.823				
B_5690_46	63.739	43.670	49.857	73.266	0.000	40.805	68.120	56.448			
B_5691_17	30.943	0.000	0.000	28.109	0.000	0.000	50.403	34.947	56.659		
B1_5692_41	73.008	79.070	59.787	40.127	38.471	52.373	54.481	63.048	62.964	32.512	

**APPENDIX D. SUMMARY OF TRANSECT DATA FROM 2002 SURVEY**

Table D.1. Listed are the data per transect ( $n = 50$ ) from August 2002 submersible survey off Washington coast: Delta dive number, station, date of dive, area ( $m^2$ ), depth (m), bottom type, boulder type, invertebrate and fish density (per ha). Bottom type categories are defined by a two-letter code, the first letter representing the primary ( $\geq 50\%$  of viewed area) substrate, the second letter representing the secondary ( $\geq 20\%$  of viewed area) substrate. Substrate codes: M = mud, S = sand, P = pebble, C = cobble, B = boulder. Boulder types indicate the dominant boulder presence ( $\geq 50\%$ ) on a sample. Categories: none = mainly no boulders; scattered = mainly scattered boulders; mixed  $\geq 50\%$  scattered, contiguous, or stacked boulder.

DELTA DIVE		5642	5643	5644	5645	5646	5647	
STATION		3889	4771	4778	4946	5289	6888	
DATE		18-Aug-02	18-Aug-02	18-Aug-02	18-Aug-02	18-Aug-02	19-Aug-02	
AREA (m <sup>2</sup> )		2881	5538	5160	4557	4585	5274	
DEPTH (m)		116	115	110	110	112	225	
BOTTOM		SM	PS	SP	PS	PS	PS	
BOULDER		none	none	none	none	none	none	
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Virgularia</i> sp	2166.1	16.3	7.8	13.2	0.0	595.4	
	<i>Balticina septentrionalis</i>	20.8	0.0	0.0	0.0	0.0	0.0	
	Anemone	0.0	0.0	11.6	0.0	4.4	0.0	
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Florometra serratissima</i>	0.0	0.0	5.8	0.0	32.7	0.0	
	Finger sponge	0.0	5.4	3.9	8.8	37.1	2358.9	
	Cloud sponge	0.0	991.3	271.3	465.2	6.5	1.9	
	Vase sponge	0.0	0.0	13.6	0.0	2.2	0.0	
	Cup sponge	0.0	0.0	3.9	0.0	0.0	0.0	
	Basket sponge	0.0	0.0	0.0	2.2	0.0	0.0	
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0
		<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	7.6
<i>Sebastes helvomaculatus</i>		0.0	0.0	19.4	0.0	15.3	0.0	
<i>Sebastes nigrocinctus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes flavidus</i>		20.8	0.0	0.0	0.0	0.0	45.5	
<i>Sebastes zacentrus</i>		0.0	0.0	0.0	0.0	0.0	17.1	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	98.6	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	7.6	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	11.4	
<i>Sebastes elongatus</i>		0.0	32.5	13.6	0.0	28.4	9.5	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		0.0	0.0	3.9	0.0	4.4	3.8	
<i>Sebastes brevispinis</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	98.6	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		0.0	3.6	193.8	4.4	497.3	136.5	
<i>Ophiodon elongatus</i>		0.0	1.8	1.9	0.0	2.2	0.0	
<i>Hexagrammos</i> spp		0.0	0.0	5.8	0.0	4.4	0.0	
<i>Hippoglossus stenolepis</i>		0.0	0.0	3.9	0.0	2.2	13.3	
<i>Atheresthes stormias</i>		0.0	1.8	0.0	0.0	0.0	1.9	
<i>Microstomus pacificus</i>		86.8	5.4	0.0	39.5	32.7	17.1	
<i>Eopsetta jordani</i>		13.9	1.8	0.0	2.2	0.0	1.9	
<i>Pleuronectiformes</i>		482.5	95.7	158.9	138.3	207.2	221.9	
<i>Raja rhina</i>		6.9	1.8	3.9	0.0	4.4	0.0	
<i>Raja binoculata</i>		0.0	1.8	0.0	0.0	0.0	0.0	
<i>Bathyraja kincaidi</i>		3.5	3.6	0.0	0.0	0.0	1.9	
<i>Hydrolagus colliei</i>		72.9	19.9	3.9	19.8	4.4	22.8	
<i>Squalus acanthias</i>		97.2	3.6	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		20.8	25.3	3.9	15.4	2.2	3.8	
<i>Theragra chalcogramma</i>		291.6	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		
Total Fish	1096.9	198.6	412.8	219.5	804.9	720.6		



DELTA DIVE		5648	5649	5650	5651	5652	5653	
STATION		7077	7105	5429	6615	8862	10661	
DATE		19-Aug-02	19-Aug-02	20-Aug-02	20-Aug-02	20-Aug-02	20-Aug-02	
AREA (m <sup>2</sup> )		5583	3894	6076	5111	4883	5612	
DEPTH (m)		168	145	125	134	152	135	
BOTTOM		SM	PS	PS	BC	SM	SP	
BOULDER		none	none	none	scattered	none	none	
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Virgularia</i> sp	34.0	43.7	245.2	5.9	4034.3	1.8	
	<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	Anemone	0.0	0.0	0.0	56.7	0.0	0.0	
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Florometra serratissima</i>	73.4	10.3	0.0	381.5	0.0	1201.0	
	Finger sponge	0.0	1348.1	111.9	0.0	0.0	0.0	
	Cloud sponge	0.0	0.0	0.0	2.0	2.0	1.8	
	Vase sponge	0.0	30.8	13.2	0.0	0.0	44.5	
	Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	2.0	0.0	0.0
		<i>Sebastes pinniger</i>	0.0	0.0	0.0	3.9	0.0	7.1
		<i>Sebastes helvomaculatus</i>	10.7	0.0	0.0	358.0	0.0	12.5
		<i>Sebastes nigrocinctus</i>	1.8	0.0	0.0	3.9	0.0	0.0
<i>Sebastes flavidus</i>		91.3	0.0	0.0	2.0	0.0	0.0	
<i>Sebastes zacentrus</i>		32.2	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		55.5	110.4	26.3	2.0	51.2	24.9	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		5.4	0.0	1.6	0.0	0.0	0.0	
<i>Sebastes brevispinis</i>		0.0	0.0	0.0	0.0	0.0	1.8	
<i>Sebastes alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		206.0	79.6	16.5	2895.6	0.0	511.4	
<i>Ophiodon elongatus</i>		0.0	0.0	3.3	205.4	0.0	16.0	
<i>Hexagrammos</i> spp		0.0	0.0	0.0	5.9	0.0	0.0	
<i>Hippoglossus stenolepis</i>		0.0	5.1	18.1	2.0	0.0	0.0	
<i>Atheresthes stomias</i>		0.0	0.0	0.0	0.0	10.2	0.0	
<i>Microstomus pacificus</i>		16.1	10.3	24.7	0.0	10.2	12.5	
<i>Eopsetta jordani</i>		0.0	0.0	0.0	0.0	6.1	21.4	
<i>Pleuronectiformes</i>		440.6	146.4	162.9	19.6	75.8	131.9	
<i>Raja rhina</i>		0.0	0.0	3.3	0.0	2.0	1.8	
<i>Raja binoculata</i>		0.0	0.0	0.0	3.9	0.0	3.6	
<i>Bathyraja kincaidi</i>		23.3	5.1	1.6	2.0	2.0	7.1	
<i>Hydrolagus coliei</i>		0.0	0.0	18.1	0.0	34.8	1.8	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		0.0	10.3	13.2	2.0	0.0	3.6	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		1.8	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		
Total Fish	884.8	367.2	289.7	3507.9	192.5	757.3		

DELTA DIVE		5654	5655	5656	5657	5658	5659	
STATION		10983	11554	12273	12630	11265	11090	
DATE		20-Aug-02	21-Aug-02	21-Aug-02	21-Aug-02	21-Aug-02	21-Aug-02	
AREA (m <sup>2</sup> )		4564	3749	6427	4710	5848	6763	
DEPTH (m)		160	133	140	155	140	136	
BOTTOM		SP	SP	SP	PS	PS	PS	
BOULDER		none	scattered	scattered	scattered	scattered	none	
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Virgularia</i> sp	89.8	0.0	0.0	1036.2	6.8	7.4	
	<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	Anemone	0.0	0.0	0.0	0.0	5.1	1.5	
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Florometra serratissima</i>	0.0	2950.2	5623.5	0.0	5962.4	4149.2	
	Finger sponge	2.2	0.0	0.0	0.0	1.7	0.0	
	Cloud sponge	2.2	2.7	15.6	0.0	0.0	0.0	
	Vase sponge	94.2	0.0	23.3	4.2	0.0	0.0	
	Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	5.3	1.6	2.1	1.7	4.4
		<i>Sebastes pinniger</i>	0.0	13.3	37.3	339.7	32.5	298.7
		<i>Sebastes helvomaculatus</i>	0.0	242.7	130.7	82.8	123.1	57.7
		<i>Sebastes nigrocinctus</i>	0.0	8.0	0.0	0.0	1.7	0.0
<i>Sebastes flavidus</i>		0.0	0.0	0.0	4.2	46.2	65.1	
<i>Sebastes zacentrus</i>		0.0	0.0	1.6	0.0	3.4	34.0	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		111.8	2.7	51.3	112.5	66.7	57.7	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		0.0	0.0	1.6	0.0	13.7	3.0	
<i>Sebastes brevispinis</i>		0.0	8.0	1.6	0.0	0.0	0.0	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		0.0	3206.3	1117.2	976.7	1084.1	872.4	
<i>Ophiodon elongatus</i>		0.0	210.7	18.7	4.2	6.8	5.9	
<i>Hexagrammos</i> spp		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hippoglossus stenolepis</i>		0.0	0.0	0.0	4.2	8.5	5.9	
<i>Atheresthes stomias</i>		17.5	0.0	0.0	0.0	0.0	0.0	
<i>Microstomus pacificus</i>		15.3	0.0	1.6	10.6	5.1	16.3	
<i>Eopsetta jordani</i>		0.0	0.0	3.1	36.1	0.0	5.9	
<i>Pleuronectiformes</i>		67.9	0.0	9.3	55.2	25.6	13.3	
<i>Raja rhina</i>		2.2	2.7	1.6	6.4	0.0	3.0	
<i>Raja binoculata</i>		0.0	0.0	0.0	2.1	1.7	3.0	
<i>Bathyraja kincaidi</i>		2.2	0.0	1.6	0.0	0.0	0.0	
<i>Hydrolagus colliei</i>		0.0	5.3	1.6	31.9	25.6	34.0	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		2.2	0.0	0.0	2.1	10.3	19.2	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		
Total Fish	219.1	3705.1	1380.2	1671.1	1456.8	1499.4		

	DELTA DIVE	5660	5661	5662	5663	5664	5665
	STATION	9711	9536	9354	7317	6785	7448
	DATE	22-Aug-02	22-Aug-02	22-Aug-02	22-Aug-02	22-Aug-02	23-Aug-02
	AREA (m <sup>2</sup> )	4220	5161	7719	3506	6235	7340
	DEPTH (m)	120	117	120	115	125	157
	BOTTOM	PS	PB	BP	SP	PS	SP
	BOULDER	none	mixed	mixed	none	none	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Virgularia</i> sp	14.2	25.2	0.0	57.1	160.4	0.0
	<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	Anemone	2.4	120.1	9.1	5.7	0.0	2.7
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Florometra serratissima</i>	4850.4	6838.0	1850.1	0.0	17.6	253.4
	Finger sponge	0.0	0.0	0.0	0.0	1421.1	2031.4
	Cloud sponge	0.0	23.3	1.3	2.9	1212.6	2.7
	Vase sponge	0.0	3.9	0.0	0.0	2925.6	0.0
	Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0
	Basket sponge	0.0	7.8	1.3	0.0	0.0	0.0
	Sheet sponge	0.0	62.0	94.6	0.0	0.0	0.0
Fish species	<i>Sebastes ruberrimus</i>	0.0	3.9	1.3	0.0	0.0	0.0
	<i>Sebastes pinniger</i>	0.0	19.4	42.8	0.0	0.0	4.1
	<i>Sebastes helvomaculatus</i>	49.8	164.7	266.9	2.9	0.0	181.2
	<i>Sebastes nigrocinctus</i>	0.0	3.9	18.1	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	4.7	9.7	36.3	0.0	0.0	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	5.7	0.0	38.1
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	59.2	1.9	0.0	57.1	6.4	136.2
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	48.4	0.0	2.9	0.0	76.3
	<i>Sebastes brevispinis</i>	0.0	1.9	1.3	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	1.9	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	481.0	1807.8	1325.4	39.9	54.5	3801.2
	<i>Ophiodon elongatus</i>	2.4	36.8	68.7	11.4	9.6	1.4
	<i>Hexagrammos</i> spp	0.0	0.0	5.2	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	2.4	13.6	10.4	5.7	3.2	6.8
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	1.6	0.0
	<i>Microstomus pacificus</i>	4.7	7.8	0.0	74.2	6.4	16.3
	<i>Eopsetta jordani</i>	21.3	5.8	0.0	22.8	6.4	0.0
	<i>Pleuronectiformes</i>	49.8	5.8	1.3	176.9	86.6	45.0
	<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	6.8
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	1.4
	<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	1.4
	<i>Hydrolagus coliei</i>	49.8	56.2	11.7	5.7	59.3	0.0
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	1.6	0.0
	<i>Gadus macrocephalus</i>	14.2	7.8	0.0	2.9	4.8	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	384.2
	<i>Zaprora silenus</i>	0.0	1.9	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0
	Total Fish	739.3	2199.3	1789.2	407.9	240.6	4700.4

	DELTA DIVE	5666	5667	5668	5669	5670	5671
	STATION	7644	8169	8754	11900	12238	12399
	DATE	23-Aug-02	23-Aug-02	23-Aug-02	24-Aug-02	24-Aug-02	24-Aug-02
	AREA (m <sup>2</sup> )	4957	5373	6384	4794	6057	7121
	DEPTH (m)	156	150	131	145	145	153
	BOTTOM	SC	SM	SM	SC	CS	SC
	BOULDER	scattered	none	none	scattered	scattered	scattered
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Virgularia</i> sp	0.0	746.4	15.7	0.0	0.0	0.0
	<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	Anemone	0.0	0.0	0.0	0.0	5.0	5.6
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	1.6	0.0	0.0	0.0
	<i>Florometra serratissima</i>	0.0	0.0	189.5	0.0	1.7	1.4
	Finger sponge	4.0	0.0	0.0	0.0	0.0	5.6
	Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0
	Vase sponge	0.0	0.0	0.0	0.0	0.0	2.8
	Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0
	Basket sponge	0.0	0.0	0.0	0.0	8.3	2.8
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0
Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	3.1	2.1	3.3	7.0
	<i>Sebastes pinniger</i>	0.0	5.6	31.3	12.5	3.3	8.4
	<i>Sebastes helvomaculatus</i>	221.9	24.2	47.0	81.4	148.6	144.7
	<i>Sebastes nigrocinctus</i>	0.0	0.0	1.6	0.0	0.0	0.0
	<i>Sebastes flavidus</i>	0.0	249.4	9.4	2.1	19.8	9.8
	<i>Sebastes zacentrus</i>	2.0	0.0	1.6	12.5	24.8	19.7
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	1.7	0.0
	<i>Sebastes elongatus</i>	274.4	100.5	34.5	31.3	59.4	109.5
	<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	1.7	0.0
	<i>Sebastes proriger</i>	2.0	7.4	0.0	0.0	5.0	0.0
	<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	3827.3	416.9	183.3	734.3	1396.7	969.0
	<i>Ophiodon elongatus</i>	0.0	0.0	12.5	0.0	5.0	4.2
	<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Hippoglossus stenolepis</i>	0.0	5.6	0.0	2.1	3.3	39.3
	<i>Atheresthes stomias</i>	2.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	8.1	31.6	6.3	6.3	16.5	15.4
	<i>Eopsetta jordani</i>	0.0	1.9	9.4	4.2	6.6	0.0
	<i>Pleuronectiformes</i>	40.4	286.6	75.2	129.3	100.7	57.6
	<i>Raja rhina</i>	10.1	5.6	1.6	10.4	1.7	4.2
	<i>Raja binoculata</i>	2.0	13.0	6.3	0.0	1.7	0.0
	<i>Bathyraja kincaidi</i>	2.0	11.2	0.0	4.2	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	7.4	0.0	0.0	0.0	0.0
	<i>Squalus acanthias</i>	0.0	1.9	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	4.0	3.7	3.1	0.0	1.7	1.4
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	34.7	15.4
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0
	Total Fish	4396.2	1172.6	426.1	1032.6	1835.9	1405.8

DELTA DIVE		5672	5673	5674	5675	5676	5677	
STATION		12756	12742	12201	12915	13272	13447	
DATE		24-Aug-02	24-Aug-02	25-Aug-02	25-Aug-02	25-Aug-02	25-Aug-02	
AREA (m <sup>2</sup> )		4211	5693	6892	8060	7473	6531	
DEPTH (m)		164	159	171	165	164	169	
BOTTOM		SC	SC	PS	PS	PS	PS	
BOULDER		scattered	scattered	none	scattered	scattered	scattered	
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Virgularia</i> sp	0.0	0.0	63.8	0.0	0.0	52.1	
	<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	Anemone	0.0	15.8	0.0	0.0	0.0	0.0	
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Florometra serratissima</i>	0.0	3.5	0.0	3080.5	9273.8	12160.4	
	Finger sponge	121.1	108.9	162.5	9.9	10.7	6.1	
	Cloud sponge	0.0	1.8	14.5	875.9	346.6	53.6	
	Vase sponge	0.0	1.8	181.4	3336.0	4275.6	2155.9	
	Cup sponge	0.0	0.0	11.6	3.7	0.0	0.0	
	Basket sponge	0.0	0.0	0.0	7.4	0.0	0.0	
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	12.3	0.0	0.0	1.3	0.0
		<i>Sebastes pinniger</i>	0.0	3.5	1.5	12.4	8.0	4.6
		<i>Sebastes helvomaculatus</i>	61.7	68.5	7.3	44.7	37.5	35.2
		<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>		0.0	260.0	0.0	0.0	1.3	0.0	
<i>Sebastes zacentrus</i>		0.0	93.1	0.0	0.0	0.0	4.6	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		106.9	138.8	119.0	64.5	137.8	254.2	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		0.0	65.0	55.1	1.2	1.3	6.1	
<i>Sebastes brevispinis</i>		0.0	0.0	0.0	0.0	24.1	0.0	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		465.5	509.4	310.5	1792.7	2265.6	2377.9	
<i>Ophiodon elongatus</i>		0.0	1.8	0.0	0.0	0.0	1.5	
<i>Hexagrammos</i> spp		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Hippoglossus stenolepis</i>		14.2	1.8	47.9	1.2	2.7	7.7	
<i>Atheresthes stomias</i>		2.4	0.0	2.9	0.0	0.0	0.0	
<i>Microstomus pacificus</i>		4.7	36.9	10.2	2.5	1.3	7.7	
<i>Eopsetta jordani</i>		2.4	0.0	1.5	0.0	1.3	0.0	
<i>Pleuronectiformes</i>		235.1	91.3	53.7	9.9	16.1	24.5	
<i>Raja rhina</i>		4.7	7.0	2.9	8.7	4.0	3.1	
<i>Raja binoculata</i>		0.0	0.0	1.5	0.0	1.3	0.0	
<i>Bathyraja kincaidi</i>		0.0	0.0	4.4	0.0	0.0	0.0	
<i>Hydrolagus collieri</i>		0.0	7.0	1.5	0.0	5.4	1.5	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		7.1	0.0	8.7	9.9	2.7	18.4	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	9.5	1.8	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		
Total Fish	914.3	1298.1	628.3	1947.8	2511.8	2746.9		

DELTA DIVE		5678	5679	5680	5681	5682	5684	
STATION		13310	9823	10362	10712	10551	10390	
DATE		25-Aug-02	26-Aug-02	26-Aug-02	26-Aug-02	26-Aug-02	26-Aug-02	
AREA (m <sup>2</sup> )		2813	5678	6344	5992	5271	5727	
DEPTH (m)		164	117	110	116	117	112	
BOTTOM		PS	SM	PS	SP	PS	PB	
BOULDER		none	none	none	none	none	mixed	
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Virgularia</i> sp	451.5	5.3	9.5	3.3	26.6	0.0	
	<i>Balticina septentrionalis</i>	0.0	7.0	0.0	0.0	0.0	0.0	
	Anemone	0.0	1.8	14.2	11.7	3.8	10.5	
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	
	<i>Florometra serratissima</i>	0.0	2067.7	8649.2	12316.3	4236.6	3078.6	
	Finger sponge	81.8	1.8	0.0	0.0	1.9	0.0	
	Cloud sponge	28.4	387.5	0.0	0.0	5.7	3.5	
	Vase sponge	867.4	28.2	0.0	0.0	0.0	0.0	
	Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	
	Fish species	<i>Sebastes ruberrimus</i>	0.0	0.0	7.9	0.0	1.9	0.0
		<i>Sebastes pinniger</i>	14.2	14.1	20.5	43.4	11.4	3.5
<i>Sebastes helvomaculatus</i>		28.4	121.5	42.6	128.5	66.4	176.4	
<i>Sebastes nigrocinctus</i>		0.0	1.8	4.7	1.7	0.0	1.7	
<i>Sebastes flavidus</i>		0.0	0.0	0.0	1.7	0.0	15.7	
<i>Sebastes zacentrus</i>		7.1	0.0	0.0	6.7	0.0	1.7	
<i>Sebastes alutus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes babcocki</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes entomelas</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes elongatus</i>		131.5	47.6	29.9	35.0	68.3	17.5	
<i>Sebastes maliger</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes proriger</i>		39.1	3.5	3.2	23.4	0.0	24.4	
<i>Sebastes brevispinis</i>		0.0	0.0	3.2	0.0	0.0	1.7	
<i>Sebastolobus alascanus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes chlorostictus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes paucispinus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Sebastes</i> spp		536.8	1444.2	2200.5	3189.2	288.4	2088.5	
<i>Ophiodon elongatus</i>		0.0	26.4	6.3	16.7	9.5	15.7	
<i>Hexagrammos</i> spp		0.0	3.5	3.2	1.7	5.7	1.7	
<i>Hippoglossus stenolepis</i>		17.8	0.0	3.2	1.7	0.0	0.0	
<i>Atheresthes stomias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Microstomus pacificus</i>		17.8	0.0	1.6	1.7	1.9	0.0	
<i>Eopsetta jordani</i>		3.6	14.1	1.6	20.0	11.4	1.7	
<i>Pleuronectiformes</i>		74.7	91.6	12.6	15.0	9.5	17.5	
<i>Raja rhina</i>		0.0	5.3	3.2	1.7	1.9	0.0	
<i>Raja binoculata</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bathyraja kincaidii</i>		0.0	1.8	0.0	0.0	1.9	0.0	
<i>Hydrolagus collieri</i>		0.0	0.0	37.8	6.7	9.5	22.7	
<i>Squalus acanthias</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Gadus macrocephalus</i>		0.0	0.0	0.0	0.0	0.0	5.2	
<i>Theragra chalcogramma</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Clupea harengus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Zaprora silenus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Anarrhichthys ocellatus</i>		0.0	0.0	0.0	0.0	0.0	0.0	
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0		
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0		
Total Fish	871.0	1775.3	2381.8	3494.6	487.6	2395.8		

	DELTA DIVE	5685	5686	5687	5688	5689	5690
	STATION	7730	7933	8640	8304	7282	5497
	DATE	27-Aug-02	27-Aug-02	27-Aug-02	27-Aug-02	27-Aug-02	28-Aug-02
	AREA (m <sup>2</sup> )	6134	6260	5781	5590	5221	6514
	DEPTH (m)	117	102	110	107	126	104
	BOTTOM	SM	PS	SP	SP	PS	SP
	BOULDER	none	none	none	mixed	none	mixed
Invertebrates	<i>Ptilosarcus gurneyi</i>	0.0	0.0	3.5	0.0	0.0	0.0
	<i>Virgularia</i> sp	13.0	182.1	36.3	44.7	0.0	0.0
	<i>Balticina septentrionalis</i>	0.0	0.0	3.5	1.8	0.0	0.0
	Anemone	11.4	1.6	6.9	17.9	11.5	35.3
	<i>Gorgonocephalus eucnemis</i>	1.6	0.0	0.0	0.0	0.0	6.1
	<i>Florometra serratissima</i>	0.0	2146.9	1413.3	4157.7	3355.4	1172.8
	Finger sponge	1.6	57.5	10.4	26.8	1.9	1.5
	Cloud sponge	26.1	2546.2	676.4	293.4	995.9	4336.7
	Vase sponge	4.9	4.8	5.2	10.7	0.0	56.8
	Cup sponge	0.0	1.6	0.0	0.0	0.0	6.1
	Basket sponge	0.0	0.0	0.0	0.0	7.7	1.5
	Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0
Fish species	<i>Sebastes ruberrimus</i>	3.3	6.4	3.5	7.2	5.7	7.7
	<i>Sebastes pinniger</i>	22.8	38.3	0.0	10.7	0.0	20.0
	<i>Sebastes helvomaculatus</i>	39.1	14.4	72.7	93.0	44.0	50.7
	<i>Sebastes nigrocinctus</i>	1.6	0.0	3.5	0.0	0.0	1.5
	<i>Sebastes flavidus</i>	13.0	6.4	0.0	0.0	5.7	0.0
	<i>Sebastes zacentrus</i>	0.0	0.0	0.0	3.6	1.9	0.0
	<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes elongatus</i>	3.3	8.0	43.2	39.4	17.2	1.5
	<i>Sebastes maliger</i>	0.0	1.6	0.0	0.0	0.0	0.0
	<i>Sebastes proriger</i>	0.0	0.0	1.7	35.8	0.0	0.0
	<i>Sebastes brevispinis</i>	3.3	0.0	0.0	0.0	0.0	0.0
	<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	1.5
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Sebastes</i> spp	143.5	147.0	1114.1	1721.0	863.7	698.5
	<i>Ophiodon elongatus</i>	19.6	6.4	22.5	19.7	0.0	67.5
	<i>Hexagrammos</i> spp	1.6	3.2	3.5	3.6	3.8	7.7
	<i>Hippoglossus stenolepis</i>	9.8	1.6	1.7	0.0	9.6	32.2
	<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Microstomus pacificus</i>	8.2	1.6	0.0	8.9	1.9	3.1
	<i>Eopsetta jordani</i>	8.2	0.0	5.2	0.0	0.0	1.5
	<i>Pleuronectiformes</i>	106.0	9.6	25.9	37.6	38.3	6.1
	<i>Raja rhina</i>	4.9	0.0	1.7	0.0	0.0	0.0
	<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Bathyraja kincaidi</i>	3.3	0.0	0.0	0.0	0.0	0.0
	<i>Hydrolagus colliei</i>	0.0	4.8	3.5	7.2	0.0	9.2
	<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	5.7	0.0
	<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anarrhichthys ocellatus</i>	3.3	1.6	0.0	0.0	0.0	0.0
	<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	1.9	0.0
	Total Fish	394.5	250.8	1302.6	1987.6	999.7	908.8

DELTA DIVE		5691	5692	Average	Std Dev.	CV
STATION		5315	5658			
DATE		28-Aug-02	28-Aug-02			
AREA (m <sup>2</sup> )		4770	4835	5517.4	1152.25	0.209
DEPTH (m)		105	111	135.1	24.83	0.184
BOTTOM		SP	SM			
BOULDER		none	scattered			
Invertebrates	<i>Ptilosarcus gurneyi</i>	2.1	0.0	0.1	0.57	5.102
	<i>Virgularia</i> sp	50.3	0.0	205.2	657.75	3.205
	<i>Balticina septentrionalis</i>	0.0	0.0	0.7	3.12	4.708
	Anemone	12.6	6.2	7.8	19.03	2.434
	<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.2	0.92	4.903
	<i>Florometra serratissima</i>	16.8	161.3	2033.7	3193.85	1.570
	Finger sponge	2.1	0.0	158.9	501.89	3.158
	Cloud sponge	81.8	1385.9	301.3	755.93	2.509
	Vase sponge	16.8	60.0	283.3	896.83	3.166
	Cup sponge	0.0	6.2	0.7	2.12	3.199
	Basket sponge	0.0	0.0	0.8	2.16	2.774
	Sheet sponge	0.0	2.1	3.2	15.84	4.991
Fish species	<i>Sebastes ruberrimus</i>	2.1	4.1	2.0	2.84	1.403
	<i>Sebastes pinniger</i>	6.3	2.1	22.1	62.61	2.833
	<i>Sebastes helvomaculatus</i>	27.3	43.4	71.8	79.99	1.114
	<i>Sebastes nigrocinctus</i>	2.1	2.1	1.2	2.92	2.445
	<i>Sebastes flavidus</i>	0.0	0.0	18.4	52.02	2.827
	<i>Sebastes zacentrus</i>	0.0	2.1	6.3	15.65	2.496
	<i>Sebastes alutus</i>	0.0	0.0	2.0	13.94	7.071
	<i>Sebastes babcocki</i>	0.0	0.0	0.2	1.07	7.071
	<i>Sebastes entomelas</i>	0.0	0.0	0.3	1.62	6.222
	<i>Sebastes elongatus</i>	14.7	8.3	58.3	60.42	1.037
	<i>Sebastes maliger</i>	0.0	0.0	0.1	0.32	4.949
	<i>Sebastes proriger</i>	0.0	43.4	9.7	18.65	1.933
	<i>Sebastes brevispinis</i>	0.0	0.0	0.9	3.60	3.845
	<i>Sebastolobus alascanus</i>	0.0	0.0	2.0	13.94	7.071
	<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.22	7.071
	<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.27	7.071
	<i>Sebastes</i> spp	360.6	678.4	1000.7	1048.01	1.047
	<i>Ophiodon elongatus</i>	23.1	37.2	18.1	42.06	2.329
	<i>Hexagrammos</i> spp	4.2	8.3	1.5	2.33	1.599
	<i>Hippoglossus stenolepis</i>	2.1	2.1	6.3	9.94	1.589
	<i>Atheresthes stornias</i>	0.0	0.0	0.8	2.88	3.570
	<i>Microstomus pacificus</i>	10.5	4.1	12.4	17.10	1.374
	<i>Eopsetta jordani</i>	21.0	2.1	5.3	7.99	1.500
	<i>Pleuronectiformes</i>	69.2	60.0	90.2	102.41	1.135
	<i>Raja rhina</i>	4.2	0.0	2.7	2.83	1.060
	<i>Raja binocolata</i>	0.0	2.1	0.9	2.18	2.406
	<i>Bathyraja kincaidi</i>	2.1	4.1	1.8	3.80	2.110
	<i>Hydrolagus colliei</i>	6.3	0.0	12.2	17.71	1.453
	<i>Squalus acanthias</i>	0.0	0.0	2.1	13.74	6.588
	<i>Gadus macrocephalus</i>	0.0	0.0	4.7	6.36	1.351
	<i>Theragra chalcogramma</i>	0.0	0.0	5.8	41.24	7.071
	<i>Clupea harengus</i>	0.0	0.0	7.7	54.33	7.038
	<i>Zaprora silenus</i>	0.0	0.0	0.0	0.27	7.071
	<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.1	0.51	5.242
	<i>Eptatretus stouti</i>	0.0	0.0	1.2	5.46	4.445
	<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.27	7.071
	Total Fish	555.5	903.9	1369.7	1115.15	0.814



**APPENDIX E: SUMMARY OF PATCH DATA FROM 2002 SURVEY**

Samples are patches ( $n = 983$ ), defined as continuous areas of similar bottom type lasting at least 10 seconds. Listed are the data per patch: label (dive number plus patch number), Delta dive number, patch number, start time on the VCR, end time on the VCR (HH:MM:SS), length of patch (m), area of patch ( $m^2$ ), bottom type, and invertebrate and fish density by species (numbers per hectare). Bottom type categories: SM = sand-mud; SS= sand-sand; SP = sand-pebble; SPC = mixed sand, pebble, and cobble; PS = pebble-sand; B1 = scattered boulder on sand, pebble, and cobble; B = mixed scattered, contiguous, or stacked boulder on sand, pebble, and cobble.

Sample	1	2	3	4	5	6	7	8
Label	5642_1	5643_1	5644_1	5644_2	5644_3	5644_4	5644_5	5644_6
Delta Dive	5642	5643	5644	5644	5644	5644	5644	5644
Patch	1	1	1	2	3	4	5	6
Start Time	0:00:00	0:00:00	0:00:00	0:15:43	0:16:04	0:16:20	0:17:01	0:18:16
End Time	1:00:49	1:01:34	0:15:43	0:16:04	0:16:04	0:17:01	0:18:16	0:19:04
Length (m)	1698.0	2052.1	538.8	12.0	9.1	23.4	42.9	27.4
Area (m <sup>2</sup> )	2880.8	5538.1	1316.2	29.3	22.3	57.2	104.7	67.0
BOTTOM	SM	PS	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	2166.1	16.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	341.2	0.0	174.7	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	991.3	220.3	0.0	0.0	0.0	0.0	1194.1
Vase sponge	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvamaculatus</i>	0.0	0.0	0.0	341.2	0.0	524.2	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	32.5	15.2	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	3.6	15.2	0.0	0.0	524.2	191.0	895.5
<i>Ophiodon elongatus</i>	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	341.2	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	86.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	13.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	482.5	95.7	144.3	0.0	0.0	0.0	382.1	0.0
<i>Raja rhina</i>	6.9	1.8	7.6	0.0	0.0	0.0	95.5	0.0
<i>Raja binoculata</i>	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	3.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	72.9	19.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	97.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	20.8	25.3	7.6	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	291.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1096.9	198.6	189.9	682.3	0.0	1048.4	668.7	895.5

Sample	9	10	11	12	13	14	15	16
Label	5644_7	5644_8	5644_9	5644_10	5644_11	5644_12	5644_13	5644_14
Delta Dive	5644	5644	5644	5644	5644	5644	5644	5644
Patch	7	8	9	10	11	12	13	14
Start Time	0:19:04	0:19:40	0:20:26	0:20:45	0:21:38	0:22:09	0:22:40	0:23:06
End Time	0:19:40	0:20:26	0:20:45	0:21:38	0:22:09	0:22:40	0:23:06	0:23:26
Length (m)	20.6	26.3	10.9	30.3	17.7	17.7	14.9	11.4
Area (m <sup>2</sup> )	50.2	64.2	26.5	74.0	43.3	43.3	36.3	27.9
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	311.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	311.5	0.0	135.2	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	597.0	1557.5	0.0	1216.6	231.1	1617.7	551.1	2507.5
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	135.2	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	155.7	0.0	135.2	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	377.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	270.4	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	405.5	0.0	1848.9	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	231.1	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	155.7	377.1	811.1	0.0	2080.0	0.0	0.0

Sample	17	18	19	20	21	22	23	24
Label	5644_15	5644_16	5644_17	5644_18	5644_19	5644_20	5644_21	5644_22
Delta Dive	5644	5644	5644	5644	5644	5644	5644	5644
Patch	15	16	17	18	19	20	21	22
Start Time	0:23:26	0:29:26	0:29:41	0:30:37	0:30:51	0:32:06	0:32:34	0:33:50
End Time	0:29:26	0:29:41	0:30:37	0:30:51	0:32:06	0:32:34	0:33:50	0:34:26
Length (m)	205.7	8.6	32.0	8.0	42.9	16.0	43.4	20.6
Area (m <sup>2</sup> )	502.5	20.9	78.2	19.5	104.7	39.1	106.1	50.2
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	199.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	258.7	955.2	0.0	0.0	382.1	0.0	0.0	398.0
Vase sponge	0.0	955.2	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	94.3	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	511.7	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	59.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	477.6	127.9	1535.2	95.5	2814.5	0.0	199.0
<i>Ophiodon elongatus</i>	0.0	477.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	39.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	95.5	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	119.4	0.0	127.9	0.0	95.5	0.0	94.3	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	238.8	955.2	255.9	2046.9	286.6	2814.5	94.3	199.0

Sample	25	26	27	28	29	30	31	32
Label	5644_23	5644_24	5644_25	5644_26	5644_27	5644_28	5644_29	5644_30
Delta Dive	5644	5644	5644	5644	5644	5644	5644	5644
Patch	23	24	25	26	27	28	29	30
Start Time	0:34:26	0:34:43	0:35:24	0:36:00	0:37:11	0:37:21	0:38:00	0:38:10
End Time	0:34:43	0:35:24	0:36:00	0:37:11	0:37:21	0:38:00	0:38:10	0:38:28
Length (m)	9.7	23.4	20.6	40.6	5.7	22.3	5.7	10.3
Area (m <sup>2</sup> )	23.7	57.2	50.2	99.1	14.0	54.4	14.0	25.1
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	100.9	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	367.4	0.0	0.0
Cloud sponge	0.0	174.7	199.0	0.0	716.4	1102.2	716.4	398.0
Vase sponge	0.0	0.0	0.0	302.7	0.0	183.7	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	842.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	842.9	3844.3	0.0	2018.1	1432.9	1285.9	0.0	1592.1
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	421.4	0.0	0.0	201.8	0.0	183.7	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	100.9	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2107.1	3844.3	0.0	2320.8	1432.9	1469.6	0.0	1592.1

Sample	33	34	35	36	37	38	39	40
Label	5644_31	5644_32	5644_33	5644_34	5645_1	5646_1	5646_2	5647_1
Delta Dive	5644	5644	5644	5644	5645	5646	5646	5647
Patch	31	32	33	34	1	1	2	1
Start Time	0:38:28	0:59:29	1:00:08	1:00:57	0:00:00	0:00:00	0:53:23	0:00:00
End Time	0:59:29	1:00:08	1:00:57	1:01:36	1:00:57	0:53:23	0:59:00	1:01:00
Length (m)	720.5	22.3	28.0	22.3	1976.0	1551.6	163.3	2270.4
Area (m <sup>2</sup> )	1760.1	54.4	68.4	54.4	4556.7	4148.2	436.5	5273.7
BOTTOM	SP	B1	SP	B1	SPC	PS	B	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	22.7	0.0	0.0	0.0	13.2	0.0	0.0	595.4
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	2.4	22.9	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	2.4	320.8	0.0
Finger sponge	0.0	0.0	0.0	0.0	8.8	41.0	0.0	2358.9
Cloud sponge	181.8	0.0	0.0	0.0	465.2	7.2	0.0	1.9
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	22.9	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
<i>Sebastes helvomaculatus</i>	0.0	183.7	0.0	0.0	0.0	2.4	137.5	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.6
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4
<i>Sebastes elongatus</i>	5.7	0.0	0.0	0.0	0.0	31.3	0.0	9.5
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	2.4	22.9	3.8
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.6
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	5.7	0.0	0.0	0.0	4.4	36.2	4880.3	136.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	2.4	22.9	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	2.4	0.0	13.3
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	39.5	36.2	0.0	17.1
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	2.2	0.0	0.0	1.9
<i>Pleuronectiformes</i>	244.3	183.7	146.2	183.7	138.3	226.6	22.9	221.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
<i>Hydrolagus colliei</i>	5.7	0.0	0.0	0.0	19.8	2.4	22.9	22.8
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	15.4	2.4	0.0	3.8
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	261.3	367.4	146.2	183.7	219.5	352.0	5109.4	720.6

Sample	41	42	43	44	45	46	47	48
Label	5648_1	5648_2	5648_3	5648_4	5648_5	5648_6	5648_7	5648_8
Delta Dive	5648	5648	5648	5648	5648	5648	5648	5648
Patch	1	2	3	4	5	6	7	8
Start Time	0:00:00	0:15:55	0:16:23	0:17:33	0:17:45	0:22:30	0:24:10	0:30:40
End Time	0:15:55	0:16:23	0:17:33	0:17:45	0:22:30	0:24:10	0:30:40	0:31:55
Length (m)	618.0	18.1	45.3	7.8	184.4	64.7	252.4	48.5
Area (m <sup>2</sup> )	1442.3	42.3	105.7	18.1	430.4	151.0	589.0	113.3
BOTTOM	SM	B1	SM	B1	SM	SP	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	254.7	882.8
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	6.9	0.0	0.0	0.0	23.2	0.0	0.0	176.6
<i>Sebastes nigrocinctus</i>	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	187.2	0.0	0.0	0.0	0.0	0.0	407.5	0.0
<i>Sebastes zacentrus</i>	90.1	236.5	0.0	551.8	23.2	0.0	0.0	88.3
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	55.5	0.0	94.6	0.0	69.7	0.0	67.9	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	23.2	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	55.5	1418.9	94.6	551.8	255.6	198.6	543.3	529.7
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	13.9	0.0	0.0	0.0	69.7	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	547.7	0.0	283.8	0.0	487.9	264.9	203.7	264.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	94.6	0.0	23.2	66.2	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	970.7	1655.3	567.5	1103.6	975.8	529.7	1222.4	1059.4

Sample	49	50	51	52	53	54	55	56
Label	5648_9	5648_10	5648_11	5648_12	5648_13	5649_1	5650_1	5650_2
Delta Dive	5648	5648	5648	5648	5648	5649	5650	5650
Patch	9	10	11	12	13	1	1	2
Start Time	0:31:55	0:33:52	0:34:12	0:46:00	0:46:14	0:01:00	0:00:00	0:23:55
End Time	0:33:52	0:34:12	0:46:00	0:46:14	1:01:36	1:01:34	0:23:55	0:24:39
Length (m)	75.7	12.9	458.2	9.1	596.6	1506.5	1003.7	30.8
Area (m <sup>2</sup> )	176.7	30.2	1069.3	21.1	1392.5	3893.2	2353.3	72.2
BOTTOM	SM	B1	SM	B1	SM	PS	PS	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	46.8	0.0	50.3	43.7	348.4	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	905.5	0.0	0.0	0.0	0.0	10.3	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	1348.5	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	30.8	12.7	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	56.6	0.0	9.4	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	56.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	113.2	0.0	56.1	0.0	50.3	110.4	21.2	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	18.7	0.0	0.0	0.0	4.2	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	396.1	331.1	168.3	2837.7	107.7	79.6	17.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	5.1	21.2	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	9.4	0.0	21.5	10.3	34.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	226.4	0.0	486.3	473.0	481.2	146.4	174.2	138.6
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	74.8	0.0	14.4	5.1	4.2	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	4.2	138.6
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	10.3	12.7	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	848.9	331.1	823.0	3310.7	675.1	367.3	306.0	277.2



Sample	57	58	59	60	61	62	63	64
Label	5650_3	5651_1	5651_2	5651_3	5651_4	5651_5	5651_6	5651_7
Delta Dive	5650	5651	5651	5651	5651	5651	5651	5651
Patch	3	1	2	3	4	5	6	7
Start Time	0:24:39	0:00:00	0:45:18	0:46:11	0:49:01	0:49:15	0:50:12	0:50:58
End Time	1:01:44	0:45:18	0:46:11	0:49:01	0:49:15	0:50:12	0:50:58	0:52:12
Length (m)	1556.3	1479.9	28.9	92.6	7.6	31.0	25.0	40.3
Area (m <sup>2</sup> )	3648.9	3757.8	73.3	235.0	19.4	78.8	63.6	102.3
BOTTOM	SP	B	SP	B	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	183.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	63.9	0.0	127.6	0.0	0.0	0.0	97.7
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	16.0	0.0	4042.0	1033.3	5202.7	2044.1	2052.6
Finger sponge	186.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	2.7	0.0	0.0	516.6	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	441.8	0.0	510.6	0.0	253.8	0.0	97.7
<i>Sebastes nigrocinctus</i>	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	16.4	3616.5	272.9	2850.7	0.0	1522.7	0.0	977.4
<i>Ophiodon elongatus</i>	2.7	250.1	0.0	297.8	0.0	253.8	0.0	0.0
<i>Hexagrammos</i> spp	0.0	5.3	0.0	0.0	0.0	126.9	0.0	0.0
<i>Hippoglossus stenolepis</i>	16.4	0.0	0.0	0.0	0.0	126.9	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	156.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	279.5	4327.1	272.9	3659.1	516.6	2284.1	0.0	1075.2

Sample	65	66	67	68	69	70	71	72
Label	5651_8	5651_9	5651_10	5652_1	5653_1	5653_2	5653_3	5653_4
Delta Dive	5651	5651	5651	5652	5653	5653	5653	5653
Patch	8	9	10	1	1	2	3	4
Start Time	0:52:12	0:52:36	0:53:50	0:00:00	0:00:00	0:08:30	0:37:10	0:51:34
End Time	0:52:36	0:53:50	1:01:36	1:00:55	0:08:30	0:37:10	0:51:34	0:51:46
Length (m)	13.1	40.3	253.7	2124.5	349.1	1177.5	591.5	8.2
Area (m <sup>2</sup> )	33.2	102.3	644.3	4883.2	774.6	2612.4	1312.3	18.2
BOTTOM	SP	B1	SP	SM	SP	SM	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	46.6	4034.3	0.0	3.8	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	15.5	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	301.4	2639.1	0.0	0.0	0.0	0.0	365.8	35662.6
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	2.0	0.0	3.8	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	142.0	26.8	38.1	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0
<i>Sebastes helvomaculatus</i>	0.0	97.7	15.5	0.0	0.0	0.0	0.0	548.7
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	15.5	51.2	12.9	3.8	38.1	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1205.5	293.2	357.0	0.0	12.9	0.0	91.4	35113.9
<i>Ophiodon elongatus</i>	602.8	0.0	0.0	0.0	0.0	11.5	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	10.2	0.0	11.5	15.2	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	6.1	38.7	11.5	15.2	0.0
<i>Pleuronectiformes</i>	0.0	0.0	155.2	75.8	64.5	176.1	121.9	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	31.0	0.0	0.0	0.0	15.2	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	15.5	2.0	25.8	3.8	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	34.8	0.0	0.0	7.6	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	15.5	0.0	0.0	3.8	7.6	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1808.3	391.0	605.3	192.5	154.9	222.0	320.0	35662.6

Sample	73	74	75	76	77	78	79	80
Label	5653_5	5653_6	5653_7	5654_1	5655_1	5655_2	5655_3	5655_4
Delta Dive	5653	5653	5653	5654	5655	5655	5655	5655
Patch	5	6	7	1	1	2	3	4
Start Time	0:51:46	0:51:59	0:53:00	0:00:00	0:00:00	0:00:13	0:03:22	0:03:40
End Time	0:51:59	0:53:00	1:01:35	1:01:39	0:00:13	0:03:22	0:03:40	0:04:57
Length (m)	8.9	41.8	352.6	2074.7	5.0	73.1	7.0	29.8
Area (m <sup>2</sup> )	19.7	92.7	782.2	4563.6	13.2	191.6	18.2	78.1
BOTTOM	SP	B1	SP	SP	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	89.8	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	20258.0	35725.6	2416.2	0.0	0.0	730.7	0.0	0.0
Finger sponge	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	25.6	94.2	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	52.2	0.0	0.0
<i>Sebastes pinniger</i>	0.0	323.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	647.6	0.0	0.0	0.0	365.3	0.0	640.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	128.1
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	89.5	111.8	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	13167.7	18672.3	140.6	0.0	2276.4	3810.0	0.0	1409.2
<i>Ophiodon elongatus</i>	0.0	215.9	51.1	0.0	0.0	261.0	1644.1	128.1
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	25.6	15.3	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	51.1	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	89.5	67.9	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	12.8	2.2	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	12.8	2.2	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	104.4	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	13167.7	19859.5	485.8	219.1	2276.4	4592.9	1644.1	2305.9

Sample	81	82	83	84	85	86	87	88
Label	5655_5	5655_6	5655_7	5655_8	5655_9	5655_10	5655_11	5655_12
Delta Dive	5655	5655	5655	5655	5655	5655	5655	5655
Patch	5	6	7	8	9	10	11	12
Start Time	0:04:57	0:05:09	0:07:16	0:07:35	0:07:50	0:08:10	0:09:26	0:09:55
End Time	0:05:09	0:07:16	0:07:35	0:07:50	0:08:10	0:09:26	0:09:55	0:10:28
Length (m)	4.6	49.1	7.4	5.8	7.7	29.4	11.2	12.8
Area (m <sup>2</sup> )	12.2	128.7	19.3	15.2	20.3	77.0	29.4	33.5
BOTTOM	SP	B1	SP	B1	SP	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	340.1	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	310.7	0.0	0.0	0.0	778.8	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	77.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1644.1	3339.9	3634.2	11179.6	2466.1	2985.3	2721.2	2690.3
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	340.1	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1644.1	3728.2	3634.2	11179.6	2466.1	3764.0	3061.3	2690.3

Sample	89	90	91	92	93	94	95	96
Label	5655_13	5655_14	5655_15	5655_16	5655_17	5655_18	5655_19	5655_20
Delta Dive	5655	5655	5655	5655	5655	5655	5655	5655
Patch	13	14	15	16	17	18	19	20
Start Time	0:10:28	0:12:45	0:13:44	0:13:56	0:14:42	0:14:56	0:16:48	0:17:35
End Time	0:12:45	0:13:44	0:13:56	0:14:42	0:14:56	0:16:48	0:17:35	0:18:01
Length (m)	53.0	22.8	4.6	17.8	5.4	43.3	18.2	10.1
Area (m <sup>2</sup> )	138.9	59.8	12.2	46.6	14.2	113.5	47.6	26.4
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	4848.6	1644.1	8792.1	0.0	9424.0	2518.6	9105.5
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	144.0	334.4	0.0	0.0	0.0	0.0	0.0	379.4
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2304.1	4179.8	822.0	2573.3	1409.2	4315.6	1679.0	4552.8
<i>Ophiodon elongatus</i>	144.0	167.2	0.0	0.0	2113.8	264.2	419.8	379.4
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2664.1	4681.4	822.0	2573.3	3523.0	4579.9	2098.8	5311.6

Sample	97	98	99	100	101	102	103	104
Label	5655_21	5655_22	5655_23	5655_24	5655_25	5655_26	5655_27	5655_28
Delta Dive	5655	5655	5655	5655	5655	5655	5655	5655
Patch	21	22	23	24	25	26	27	28
Start Time	0:18:01	0:19:00	0:25:15	0:25:25	0:28:00	0:31:39	0:32:40	0:35:20
End Time	0:19:00	0:25:15	0:25:25	0:28:00	0:31:39	0:32:40	0:35:20	0:36:27
Length (m)	22.8	145.1	3.9	60.0	84.7	23.6	61.9	25.9
Area (m <sup>2</sup> )	59.8	380.2	10.1	157.1	222.0	61.8	162.2	67.9
BOTTOM	SP	B1	SP	B1	SP	B1	SM	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1504.7	8023.0	986.4	5727.7	2837.7	8732.4	3329.2	3386.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	61.7	0.0
<i>Sebastes pinniger</i>	167.2	26.3	0.0	0.0	0.0	0.0	61.7	0.0
<i>Sebastes helvomaculatus</i>	0.0	368.3	0.0	318.2	45.0	161.7	61.7	294.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	61.7	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1003.2	4708.6	3945.7	2863.8	1756.7	1617.1	1603.0	1914.0
<i>Ophiodon elongatus</i>	167.2	184.1	0.0	190.9	360.3	323.4	185.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	161.7	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1337.5	5287.3	3945.7	3373.0	2162.0	2263.9	2034.5	2208.4

Sample	105	106	107	108	109	110	111	112
Label	5655_29	5655_30	5655_31	5655_32	5655_33	5655_34	5655_35	5655_36
Delta Dive	5655	5655	5655	5655	5655	5655	5655	5655
Patch	29	30	31	32	33	34	35	36
Start Time	0:36:27	0:36:47	0:43:52	0:45:28	0:45:40	0:46:16	0:46:43	0:47:34
End Time	0:36:47	0:43:52	0:45:28	0:45:40	0:46:16	0:46:43	0:47:34	0:48:47
Length (m)	7.7	164.5	37.1	4.6	13.9	10.4	19.7	28.2
Area (m <sup>2</sup> )	20.3	430.8	97.3	12.2	36.5	27.4	51.7	74.0
BOTTOM	B1	SM	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	4932.2	2228.2	9556.1	0.0	2192.1	0.0	0.0	135.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	493.2	23.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	986.4	69.6	719.3	0.0	274.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	274.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2959.3	1717.6	822.0	0.0	5754.2	1096.0	773.7	1891.8
<i>Ophiodon elongatus</i>	493.2	23.2	102.8	0.0	548.0	365.3	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4932.2	1833.6	1644.1	0.0	6850.2	1461.4	773.7	1891.8

Sample	113	114	115	116	117	118	119	120
Label	5655_37	5655_38	5655_39	5655_40	5655_41	5656_1	5656_2	5656_3
Delta Dive	5655	5655	5655	5655	5655	5656	5656	5656
Patch	37	38	39	40	41	1	2	3
Start Time	0:48:47	0:51:12	0:51:24	0:52:16	0:52:28	0:01:00	0:04:06	0:05:29
End Time	0:51:12	0:51:24	0:52:16	0:52:28	1:01:37	0:04:06	0:05:29	0:07:52
Length (m)	56.1	4.6	20.1	4.6	212.4	123.0	54.9	94.6
Area (m <sup>2</sup> )	147.0	12.2	52.7	12.2	556.6	328.8	146.7	252.8
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	136.1	0.0	1138.2	0.0	1114.0	0.0	2112.5	6051.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	30.4	68.1	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	152.0	68.1	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	276.9
<i>Sebastes helvomaculatus</i>	136.1	0.0	189.7	0.0	431.2	0.0	408.9	39.6
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	35.9	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	60.8	68.1	79.1
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	6054.7	3288.1	4173.4	2466.1	5210.7	0.0	2930.3	356.0
<i>Ophiodon elongatus</i>	408.2	0.0	189.7	0.0	359.4	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.6
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	6598.9	3288.1	4552.8	2466.1	6037.2	60.8	3407.3	791.1



Sample	121	122	123	124	125	126	127	128
Label	5656_4	5656_5	5656_6	5656_7	5656_8	5656_9	5656_10	5656_11
Delta Dive	5656	5656	5656	5656	5656	5656	5656	5656
Patch	4	5	6	7	8	9	10	11
Start Time	0:07:52	0:08:10	0:08:58	0:09:23	0:11:57	0:14:26	0:15:13	0:15:39
End Time	0:08:10	0:08:58	0:09:23	0:11:57	0:14:26	0:15:13	0:15:39	0:16:23
Length (m)	11.9	31.7	16.5	101.9	98.5	31.1	17.2	29.1
Area (m <sup>2</sup> )	31.8	84.9	44.2	272.3	263.4	83.1	46.0	77.8
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	12883.4	6009.7	12896.0	7786.4	10742.9	11553.0	16098.3	17868.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	628.5	0.0	0.0	36.7	265.7	0.0	217.5	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	117.8	0.0	73.5	38.0	120.3	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3770.8	942.7	678.7	661.1	2049.9	722.1	3045.6	385.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	75.9	0.0	217.5	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	36.7	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4399.2	1060.5	678.7	808.0	2467.4	842.4	3480.7	385.6

Sample	129	130	131	132	133	134	135	136
Label	5656_12	5656_13	5656_14	5656_15	5656_16	5656_17	5656_18	5656_19
Delta Dive	5656	5656	5656	5656	5656	5656	5656	5656
Patch	12	13	14	15	16	17	18	19
Start Time	0:16:23	0:16:33	0:17:40	0:20:23	0:23:26	0:24:07	0:24:20	0:25:35
End Time	0:16:33	0:17:40	0:20:23	0:23:26	0:24:07	0:24:20	0:25:35	0:27:45
Length (m)	6.6	44.3	107.8	121.0	27.1	8.6	49.6	86.0
Area (m <sup>2</sup> )	17.7	118.5	288.2	323.5	72.5	23.0	132.6	229.8
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	19230.9	18403.6	15441.6	8623.3	9518.9	9571.9	11312.3	3698.2
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	34.7	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	69.4	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	34.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	84.4	381.7	0.0	275.9	0.0	150.8	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	34.7	0.0	0.0	0.0	0.0	87.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	30.9	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	565.6	759.8	2776.0	1267.2	1793.4	435.1	1055.8	217.5
<i>Ophiodon elongatus</i>	0.0	0.0	104.1	30.9	138.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	34.7	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	565.6	844.2	3365.9	1329.0	2207.3	435.1	1206.6	304.6

Sample	137	138	139	140	141	142	143	144
Label	5656_20	5656_21	5656_22	5656_23	5656_24	5656_25	5656_26	5656_27
Delta Dive	5656	5656	5656	5656	5656	5656	5656	5656
Patch	20	21	22	23	24	25	26	27
Start Time	0:27:45	0:28:10	0:28:56	0:30:51	0:34:08	0:34:28	0:35:29	0:36:36
End Time	0:28:10	0:28:56	0:30:51	0:34:08	0:34:28	0:35:29	0:36:36	0:39:07
Length (m)	16.5	30.4	76.1	130.3	13.2	40.3	44.3	99.9
Area (m <sup>2</sup> )	44.2	81.3	203.3	348.3	35.4	107.8	118.5	267.0
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	10181.1	2951.0	7623.5	5483.9	5656.1	8623.3	10890.2	4607.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	245.9	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	344.3	57.4	848.4	0.0	337.7	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	114.8	0.0	185.4	0.0	112.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	452.5	368.9	1278.8	287.1	3676.5	463.6	1097.5	561.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	28.7	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	84.4	74.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	92.7	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	452.5	368.9	1623.1	516.8	4524.9	741.8	1519.6	824.1

Sample	145	146	147	148	149	150	151	152
Label	5656_28	5656_29	5656_30	5656_31	5656_32	5656_33	5656_34	5656_35
Delta Dive	5656	5656	5656	5656	5656	5656	5656	5656
Patch	28	29	30	31	32	33	34	35
Start Time	0:39:07	0:40:05	0:40:44	0:41:53	0:42:08	0:44:00	0:46:28	0:48:19
End Time	0:40:05	0:40:44	0:41:53	0:42:08	0:44:00	0:46:28	0:48:19	0:48:32
Length (m)	38.4	25.8	45.6	9.9	74.1	97.9	73.4	8.6
Area (m <sup>2</sup> )	102.5	69.0	122.0	26.5	198.0	261.7	196.2	23.0
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	8679.3	2900.6	2295.2	377.1	1212.0	114.7	3363.1	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	82.0	0.0	50.5	0.0	0.0	0.0
Vase sponge	97.5	0.0	0.0	0.0	50.5	76.4	101.9	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	191.1	0.0	0.0
<i>Sebastes helvomaculatus</i>	682.6	145.0	409.9	0.0	151.5	38.2	254.8	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	754.2	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3608.2	290.1	1311.6	377.1	1565.5	191.1	1936.3	0.0
<i>Ophiodon elongatus</i>	97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4485.9	435.1	1721.4	1131.2	1717.0	420.4	2242.1	0.0

Sample	153	154	155	156	157	158	159	160
Label	5656_36	5656_37	5656_38	5656_39	5656_40	5656_41	5656_42	5656_43
Delta Dive	5656	5656	5656	5656	5656	5656	5656	5656
Patch	36	37	38	39	40	41	42	43
Start Time	0:48:32	0:49:15	0:49:46	0:50:57	0:58:02	0:58:20	0:58:45	0:59:50
End Time	0:49:15	0:49:46	0:50:57	0:58:02	0:58:20	0:58:45	0:59:50	1:00:50
Length (m)	28.4	20.5	47.0	281.1	11.9	16.5	43.0	39.7
Area (m <sup>2</sup> )	76.0	54.8	125.5	751.4	31.8	44.2	114.9	106.1
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	314.2	0.0	2958.6	8012.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	182.5	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	79.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	182.5	0.0	119.8	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	394.6	0.0	239.0	66.5	0.0	0.0	87.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	131.5	0.0	0.0	79.9	0.0	0.0	0.0	94.3
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes spp</i>	1446.9	364.9	3584.9	465.8	6913.1	226.2	1218.2	848.4
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	13.3	314.2	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1973.1	547.4	3903.5	771.9	7227.3	226.2	1305.3	942.7

Sample	161	162	163	164	165	166	167	168
Label	5656_44	5657_1	5657_2	5657_3	5657_4	5657_5	5657_6	5657_7
Delta Dive	5656	5657	5657	5657	5657	5657	5657	5657
Patch	44	1	2	3	4	5	6	7
Start Time	1:00:50	0:00:00	0:01:34	0:03:30	0:05:50	0:20:00	0:21:26	0:24:39
End Time	1:01:35	0:01:34	0:03:30	0:05:50	0:20:00	0:21:26	0:24:39	0:24:50
Length (m)	29.8	54.6	67.4	81.3	493.9	50.0	112.1	6.4
Area (m <sup>2</sup> )	79.6	121.0	149.3	180.1	1093.7	110.7	248.3	14.2
BOTTOM	B1	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	134.0	0.0	996.6	994.0	765.1	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	5656.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	82.7	603.0	0.0	557.7	0.0	724.8	0.0
<i>Sebastes helvomaculatus</i>	0.0	82.7	0.0	333.1	36.6	180.7	40.3	2119.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	125.7	0.0	67.0	0.0	155.4	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3519.4	744.1	402.0	5218.0	320.0	4699.0	563.7	4945.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	9.1	0.0	40.3	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	67.0	0.0	45.7	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	82.7	67.0	0.0	18.3	0.0	40.3	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	9.1	0.0	0.0	706.5
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3645.1	992.1	1205.9	5551.1	1179.4	4879.8	1409.3	7771.5

Sample	169	170	171	172	173	174	175	176
Label	5657_8	5657_9	5657_10	5657_11	5657_12	5657_13	5657_14	5658_1
Delta Dive	5657	5657	5657	5657	5657	5657	5657	5658
Patch	8	9	10	11	12	13	14	1
Start Time	0:24:50	0:25:06	0:26:28	0:28:00	0:28:34	0:50:09	0:53:03	0:00:00
End Time	0:25:06	0:26:28	0:28:00	0:28:34	0:50:09	0:53:03	1:00:59	0:00:14
Length (m)	9.3	47.6	53.5	19.8	752.5	101.1	276.6	8.9
Area (m <sup>2</sup> )	20.6	105.5	118.4	43.7	1666.3	223.9	612.5	22.2
BOTTOM	PS	B1	PS	B1	PS	B1	PS	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	485.7	758.2	1520.5	228.6	1836.4	134.0	163.3	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	450.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	189.5	1098.1	0.0	336.1	0.0	0.0	4052.8
<i>Sebastes helvomaculatus</i>	0.0	284.3	0.0	457.1	42.0	134.0	114.3	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	168.9	0.0	132.0	134.0	130.6	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3400.0	1516.4	506.8	2285.7	282.1	2143.9	1795.9	1350.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	60.0	0.0	16.3	0.0
<i>Pleuronectiformes</i>	0.0	94.8	84.5	0.0	78.0	44.7	81.6	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	84.5	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	84.0	0.0	16.3	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3400.0	2085.0	1942.9	2742.9	1068.2	2456.5	2155.1	5403.8

Sample	177	178	179	180	181	182	183	184
Label	5658_2	5658_3	5658_4	5658_5	5658_6	5658_7	5658_8	5658_9
Delta Dive	5658	5658	5658	5658	5658	5658	5658	5658
Patch	2	3	4	5	6	7	8	9
Start Time	0:00:14	0:01:27	0:02:00	0:09:19	0:09:38	0:10:07	0:10:22	0:11:50
End Time	0:01:27	0:02:00	0:09:19	0:09:38	0:10:07	0:10:22	0:11:50	0:12:22
Length (m)	46.7	21.1	280.6	12.1	18.5	9.6	56.3	20.5
Area (m <sup>2</sup> )	115.8	52.3	696.3	30.1	46.0	23.8	139.6	50.8
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	12004.3	3438.8	15610.3	0.0	217.4	0.0	15259.6	2561.2
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	43.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	259.1	0.0	315.9	0.0	0.0	0.0	71.6	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	14.4	0.0	0.0	0.0	143.3	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	4663.6	764.2	2182.9	331.8	0.0	420.3	1647.7	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	191.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4922.6	955.2	2628.0	331.8	0.0	420.3	1862.7	0.0



Sample	185	186	187	188	189	190	191	192
Label	5658_10	5658_11	5658_12	5658_13	5658_14	5658_15	5658_16	5658_17
Delta Dive	5658	5658	5658	5658	5658	5658	5658	5658
Patch	10	11	12	13	14	15	16	17
Start Time	0:12:22	0:13:59	0:14:10	0:14:36	0:15:15	0:15:34	0:16:16	0:16:35
End Time	0:13:59	0:14:10	0:14:36	0:15:15	0:15:34	0:16:16	0:16:35	0:19:23
Length (m)	62.0	7.0	16.6	24.9	12.1	26.8	12.1	107.4
Area (m <sup>2</sup> )	153.9	17.4	41.2	61.9	30.1	66.6	30.1	266.5
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	242.5	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	19498.2	0.0	3879.6	161.7	19576.9	1651.2	24885.9	2814.5
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	195.0	573.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	325.0	0.0	0.0	0.0	0.0	0.0	1659.1	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.6
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	161.7	0.0	0.0	0.0	37.5
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	1327.2	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1754.8	0.0	0.0	0.0	1327.2	1200.8	7963.5	150.1
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2274.8	573.1	0.0	161.7	2654.5	1200.8	9622.6	412.8

Sample	193	194	195	196	197	198	199	200
Label	5658_18	5658_19	5658_20	5658_21	5658_22	5658_23	5658_24	5658_25
Delta Dive	5658	5658	5658	5658	5658	5658	5658	5658
Patch	18	19	20	21	22	23	24	25
Start Time	0:19:23	0:19:59	0:22:18	0:25:12	0:32:14	0:35:42	0:45:59	0:47:20
End Time	0:19:59	0:22:18	0:25:12	0:32:14	0:35:42	0:45:59	0:47:20	1:01:26
Length (m)	23.0	88.9	111.2	269.8	133.0	394.4	51.8	540.8
Area (m <sup>2</sup> )	57.1	220.5	276.0	669.4	329.9	978.7	128.5	1341.9
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	45.4	0.0	0.0	60.6	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	45.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	19088.4	1088.5	31667.1	0.0	14185.0	10.2	0.0	0.0
Finger sponge	0.0	45.4	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	90.7	0.0	0.0	0.0	0.0	77.8	0.0
<i>Sebastes helvomaculatus</i>	350.2	45.4	507.3	14.9	181.9	92.0	233.5	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	36.2	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	45.4	760.9	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	72.5	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	45.4	72.5	29.9	0.0	71.5	0.0	186.3
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	175.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	5078.6	2539.9	181.2	59.8	5061.7	582.4	311.3	52.2
<i>Ophiodon elongatus</i>	175.1	0.0	0.0	0.0	0.0	0.0	0.0	7.5
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	29.9	0.0	10.2	0.0	7.5
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	45.4	36.2	29.9	0.0	40.9	0.0	44.7
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	90.7	36.2	0.0	30.3	10.2	77.8	59.6
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	136.1	36.2	14.9	0.0	10.2	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	5779.1	3038.8	1739.2	179.3	5273.9	817.4	700.5	380.1

Sample	201	202	203	204	205	206	207	208
Label	5659_1	5659_2	5659_3	5659_4	5659_5	5659_6	5659_7	5659_8
Delta Dive	5659	5659	5659	5659	5659	5659	5659	5659
Patch	1	2	3	4	5	6	7	8
Start Time	0:00:00	0:00:30	0:08:46	0:14:47	0:17:07	0:19:03	0:19:49	0:22:09
End Time	0:00:30	0:08:46	0:14:47	0:17:07	0:19:03	0:19:49	0:22:09	0:22:34
Length (m)	20.2	334.6	243.5	94.4	78.3	31.0	94.4	16.9
Area (m <sup>2</sup> )	55.1	911.0	663.1	257.1	213.1	84.5	257.1	45.9
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	15.1	0.0	0.0	0.0	77.8	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	38.9	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	20867.0	45.2	6961.2	422.4	11480.9	1011.1	18729.2
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	32.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	181.5	483.0	527.9	0.0	0.0	0.0	77.8	0.0
<i>Sebastes helvomaculatus</i>	181.5	219.5	0.0	155.6	46.9	0.0	155.6	217.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	186.6	120.7	0.0	0.0	355.1	38.9	0.0
<i>Sebastes zacentrus</i>	0.0	120.7	15.1	233.3	0.0	355.1	38.9	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	105.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	1745.3	15.1	8166.8	46.9	5681.2	233.3	6097.9
<i>Ophiodon elongatus</i>	0.0	22.0	15.1	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	38.9	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	11.0	15.1	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	46.9	118.4	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	181.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collieri</i>	0.0	43.9	15.1	116.7	46.9	0.0	38.9	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	11.0	45.2	0.0	46.9	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	544.5	2886.9	874.7	8711.2	234.7	6509.8	583.3	6315.7

Sample	209	210	211	212	213	214	215	216
Label	5659_9	5659_10	5659_11	5659_12	5659_13	5659_14	5659_15	5659_16
Delta Dive	5659	5659	5659	5659	5659	5659	5659	5659
Patch	9	10	11	12	13	14	15	16
Start Time	0:22:34	0:24:43	0:25:07	0:25:48	0:26:23	0:27:10	0:28:13	0:39:02
End Time	0:24:43	0:25:07	0:25:48	0:26:23	0:27:10	0:28:13	0:39:02	0:39:19
Length (m)	87.0	16.2	27.7	23.6	31.7	42.5	437.8	11.5
Area (m <sup>2</sup> )	236.9	44.1	75.3	64.3	86.3	115.7	1192.0	31.2
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1392.8	24500.4	3452.6	16489.1	3591.1	9333.5	117.4	3522.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	320.3
<i>Sebastes helvomaculatus</i>	84.4	0.0	0.0	466.7	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	155.6	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	226.9	0.0	0.0	0.0	0.0	117.4	320.3
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	126.6	4764.0	664.0	2644.5	115.8	5703.8	50.3	1921.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	132.8	0.0	0.0	0.0	8.4	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	50.3	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	25.2	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	132.8	155.6	0.0	0.0	50.3	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	211.0	4990.8	929.6	3422.3	115.8	5703.8	360.7	2562.1

Sample	217	218	219	220	221	222	223	224
Label	5659_17	5659_18	5659_19	5660_1	5660_2	5660_3	5660_4	5660_5
Delta Dive	5659	5659	5659	5660	5660	5660	5660	5660
Patch	17	18	19	1	2	3	4	5
Start Time	0:39:19	0:44:24	0:44:53	0:00:00	0:04:31	0:05:16	0:05:33	0:06:34
End Time	0:44:24	0:44:53	1:01:22	0:04:31	0:05:16	0:05:33	0:06:34	0:11:41
Length (m)	205.7	19.6	667.2	143.3	23.8	9.0	32.3	162.4
Area (m <sup>2</sup> )	560.2	53.3	1816.5	310.4	51.6	19.5	69.9	351.7
BOTTOM	PS	B1	PS	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	11640.0	33.0	2609.1	5043.6	1540.5	9158.7	1336.4
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	125.0	0.0	616.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	375.5	5.5	0.0	194.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	77.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	35.7	0.0	77.1	64.4	0.0	0.0	0.0	56.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	17.9	751.0	38.5	64.4	582.0	0.0	429.3	56.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	35.7	0.0	16.5	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	32.2	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	71.4	0.0	0.0	96.6	194.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	27.5	32.2	0.0	0.0	143.1	56.9
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	17.9	0.0	33.0	0.0	0.0	0.0	0.0	28.4
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	303.5	1126.5	908.3	289.9	969.9	0.0	572.4	199.0

Sample	225	226	227	228	229	230	231	232
Label	5660_6	5660_7	5660_8	5660_9	5660_10	5660_11	5660_12	5660_13
Delta Dive	5660	5660	5660	5660	5660	5660	5660	5660
Patch	6	7	8	9	10	11	12	13
Start Time	0:11:41	0:13:18	0:14:37	0:15:29	0:19:20	0:19:49	0:20:14	0:21:17
End Time	0:13:18	0:14:37	0:15:29	0:19:20	0:19:49	0:20:14	0:21:17	0:23:00
Length (m)	51.3	41.8	27.5	122.2	15.3	13.2	33.3	54.5
Area (m <sup>2</sup> )	111.1	90.5	59.6	264.6	33.2	28.6	72.2	118.0
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	6659.5	2099.5	11247.5	1587.2	7826.3	1745.9	11916.3	169.5
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	90.0	0.0	0.0	0.0	301.0	0.0	138.6	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	331.5	0.0	75.6	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1889.9	331.5	2350.2	188.9	301.0	349.2	1385.6	84.8
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	349.2	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	349.2	138.6	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1979.9	663.0	2350.2	264.5	602.0	1047.5	1662.7	84.8

Sample	233	234	235	236	237	238	239	240
Label	5660_14	5660_15	5660_16	5660_17	5660_18	5660_19	5660_20	5660_21
Delta Dive	5660	5660	5660	5660	5660	5660	5660	5660
Patch	14	15	16	17	18	19	20	21
Start Time	0:23:00	0:25:06	0:26:15	0:26:26	0:29:35	0:31:37	0:33:12	0:33:25
End Time	0:25:06	0:26:15	0:26:26	0:29:35	0:31:37	0:33:12	0:33:25	0:33:52
Length (m)	66.6	36.5	5.8	100.0	64.5	50.3	6.9	14.3
Area (m <sup>2</sup> )	144.3	79.0	12.6	216.5	139.8	108.8	14.9	30.9
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	46.2	0.0	91.9	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	9006.5	1265.1	42853.3	3787.3	13308.7	918.9	4028.9	969.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	277.1	0.0	793.6	0.0	644.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	92.4	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	92.4	0.0	91.9	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2286.3	0.0	11903.7	184.7	2933.6	183.8	1343.0	323.3
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	46.2	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	46.2	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	71.6	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	92.4	71.6	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2563.4	0.0	12697.3	554.2	3720.7	275.7	1343.0	323.3

Sample	241	242	243	244	245	246	247	248
Label	5660_22	5660_23	5660_24	5660_25	5660_26	5660_27	5660_28	5660_29
Delta Dive	5660	5660	5660	5660	5660	5660	5660	5660
Patch	22	23	24	25	26	27	28	29
Start Time	0:33:52	0:34:27	0:39:20	0:39:44	0:42:20	0:42:37	0:49:50	0:50:42
End Time	0:34:27	0:39:20	0:39:44	0:42:20	0:42:37	0:49:50	0:50:42	1:01:36
Length (m)	18.5	155.0	12.7	82.5	9.0	229.0	27.5	345.9
Area (m <sup>2</sup> )	40.1	335.6	27.5	178.7	19.5	496.0	59.6	749.2
BOTTOM	B1	PS	B1	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	59.6	0.0	56.0	0.0	0.0	0.0	13.3
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	167.9	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1995.3	446.9	2909.8	2797.9	17458.7	7459.3	15276.4	5979.8
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	249.4	0.0	0.0	0.0	0.0	20.2	0.0	13.3
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	29.8	0.0	0.0	0.0	161.3	0.0	53.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1247.1	0.0	0.0	56.0	1027.0	302.4	671.5	160.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7
<i>Eopsetta jordani</i>	0.0	119.2	0.0	0.0	0.0	20.2	0.0	26.7
<i>Pleuronectiformes</i>	0.0	119.2	0.0	56.0	0.0	40.3	0.0	106.8
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	29.8	0.0	167.9	0.0	80.6	0.0	53.4
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	29.8	0.0	56.0	0.0	40.3	0.0	13.3
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1496.5	327.7	0.0	335.7	1027.0	665.3	671.5	467.2



Sample	249	250	251	252	253	254	255	256
Label	5661_1	5661_2	5661_3	5661_4	5661_5	5661_6	5661_7	5661_8
Delta Dive	5661	5661	5661	5661	5661	5661	5661	5661
Patch	1	2	3	4	5	6	7	8
Start Time	0:00:00	0:00:52	0:02:05	0:02:24	0:02:53	0:03:19	0:03:59	0:05:17
End Time	0:00:52	0:02:05	0:02:24	0:02:53	0:03:19	0:03:59	0:05:17	0:06:10
Length (m)	31.8	44.6	11.6	17.7	15.9	24.5	47.7	32.4
Area (m <sup>2</sup> )	72.6	101.9	26.5	40.5	36.3	55.9	108.9	74.0
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	179.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	275.4	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1928.1	10104.7	4146.2	11359.8	5784.4	16292.7	5692.6	5540.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	137.7	392.4	0.0	247.0	0.0	179.0	0.0	135.1
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	247.0	0.0	358.1	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	550.9	1275.4	753.9	987.8	550.9	537.1	183.6	1621.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	91.8	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	91.8	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	688.6	1667.8	753.9	1481.7	550.9	1074.2	367.3	1756.6

Sample	257	258	259	260	261	262	263	264
Label	5661_9	5661_10	5661_11	5661_12	5661_13	5661_14	5661_15	5661_16
Delta Dive	5661	5661	5661	5661	5661	5661	5661	5661
Patch	9	10	11	12	13	14	15	16
Start Time	0:06:10	0:06:48	0:07:39	0:09:24	0:09:46	0:09:59	0:10:34	0:11:03
End Time	0:06:48	0:07:39	0:09:24	0:09:46	0:09:59	0:10:34	0:11:03	0:11:28
Length (m)	23.2	31.2	64.2	13.5	7.9	21.4	17.7	15.3
Area (m <sup>2</sup> )	53.1	71.2	146.6	30.7	18.2	48.9	40.5	34.9
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	1159.5	325.5	0.0	204.6	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	4900.0	7723.3	1091.3	23438.0	550.9	10640.1	3457.3	13463.8
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	140.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	188.5	280.8	0.0	325.5	550.9	409.2	247.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	188.5	842.5	136.4	976.6	0.0	204.6	247.0	859.4
<i>Ophiodon elongatus</i>	0.0	140.4	68.2	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	68.2	0.0	0.0	0.0	247.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	376.9	1404.2	272.8	1302.1	550.9	613.9	740.9	859.4

Sample	265	266	267	268	269	270	271	272
Label	5661_17	5661_18	5661_19	5661_20	5661_21	5661_22	5661_23	5661_24
Delta Dive	5661	5661	5661	5661	5661	5661	5661	5661
Patch	17	18	19	20	21	22	23	24
Start Time	0:11:28	0:15:29	0:15:52	0:18:20	0:22:50	0:26:47	0:33:48	0:34:00
End Time	0:15:29	0:15:52	0:18:20	0:22:50	0:26:47	0:33:48	0:34:00	0:39:50
Length (m)	147.4	14.1	90.5	165.1	144.9	257.4	7.3	214.0
Area (m <sup>2</sup> )	336.5	32.1	206.7	377.0	330.9	587.9	16.8	488.7
BOTTOM	PS	B1	PS	B1	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	90.7	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	208.0	0.0	0.0	132.6	30.2	51.0	0.0	61.4
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	2109.9	2802.4	96.8	3182.9	0.0	9288.0	9548.8	8982.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	132.6	0.0	119.1	0.0	0.0
Vase sponge	0.0	311.4	0.0	0.0	0.0	17.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	17.0	0.0	20.5
Sheet sponge	0.0	311.4	0.0	0.0	0.0	493.3	0.0	40.9
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	29.7	0.0	0.0	26.5	0.0	68.0	0.0	40.9
<i>Sebastes helvomaculatus</i>	29.7	0.0	0.0	424.4	30.2	289.2	0.0	184.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	68.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	68.0	0.0	204.6
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	237.7	0.0	48.4	1697.6	30.2	5494.5	0.0	5790.7
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	53.0	0.0	136.1	0.0	40.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	30.2	34.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	29.7	0.0	48.4	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	30.2	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	30.2	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	48.4	132.6	0.0	0.0	0.0	81.8
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	326.9	0.0	145.2	2334.2	151.1	6192.0	0.0	6343.1

Sample	273	274	275	276	277	278	279	280
Label	5661_25	5661_26	5661_27	5661_28	5661_29	5661_30	5661_31	5661_32
Delta Dive	5661	5661	5661	5661	5661	5661	5661	5661
Patch	25	26	27	28	29	30	31	32
Start Time	0:39:50	0:40:06	0:44:00	0:45:09	0:45:52	0:49:05	0:50:02	0:50:28
End Time	0:40:06	0:44:00	0:45:09	0:45:52	0:49:05	0:50:02	0:50:28	0:51:25
Length (m)	9.8	143.1	42.2	26.3	118.0	34.9	15.9	34.9
Area (m <sup>2</sup> )	22.3	326.7	96.3	60.0	269.5	79.6	36.3	79.6
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	376.9	0.0	502.6
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	1245.5	0.0	296.9	251.3	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	4028.4	32870.0	7473.0	13323.9	2486.2	6407.8	1377.2	13066.8
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	447.6	30.6	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	61.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	103.8	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	428.5	103.8	333.1	0.0	125.6	0.0	502.6
<i>Sebastes nigrocinctus</i>	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	183.6	0.0	166.5	0.0	0.0	0.0	125.6
<i>Sebastes brevispinis</i>	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	447.6	3978.7	519.0	1832.0	296.9	1005.1	0.0	1633.3
<i>Ophiodon elongatus</i>	0.0	91.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	37.1	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	37.1	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	447.6	428.5	103.8	166.5	0.0	0.0	275.4	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	895.2	5294.7	830.3	2498.2	371.1	1130.8	275.4	2261.6

Sample	281	282	283	284	285	286	287	288
Label	5661_33	5661_34	5661_35	5661_36	5661_37	5662_1	5662_2	5662_3
Delta Dive	5661	5661	5661	5661	5661	5662	5662	5662
Patch	33	34	35	36	37	1	2	3
Start Time	0:51:25	0:52:16	0:52:34	0:53:36	0:54:11	0:00:00	0:14:05	0:15:08
End Time	0:52:16	0:52:34	0:53:36	0:54:11	1:01:36	0:14:05	0:15:08	0:20:06
Length (m)	31.2	11.0	37.9	21.4	272.1	554.8	41.4	195.7
Area (m <sup>2</sup> )	71.2	25.1	86.6	48.9	621.4	1773.8	132.2	625.5
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	32.2	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	16.1	5.6	0.0	16.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	2387.2	26259.2	1386.1	8798.6	869.0	1234.6	151.2	1087.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	50.7	0.0	79.9
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	1193.6	0.0	0.0	0.0	310.1	0.0	383.7
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	22.6	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	5.6	0.0	32.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	561.7	1591.5	0.0	613.9	112.7	3072.5	0.0	111.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	16.1	95.8	0.0	79.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	16.1	22.6	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	204.6	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	32.2	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	16.1	11.3	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	204.6	48.3	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	561.7	2785.1	0.0	1023.1	273.6	3540.4	0.0	607.5

Sample	289	290	291	292	293	294	295	296
Label	5662_4	5662_5	5662_6	5662_7	5662_8	5662_9	5662_10	5662_11
Delta Dive	5662	5662	5662	5662	5662	5662	5662	5662
Patch	4	5	6	7	8	9	10	11
Start Time	0:20:06	0:21:00	0:22:49	0:23:00	0:23:39	0:24:53	0:27:23	0:27:45
End Time	0:21:00	0:22:49	0:23:00	0:23:39	0:24:53	0:27:23	0:27:45	0:28:14
Length (m)	35.5	71.6	7.2	25.6	48.6	98.5	14.4	19.0
Area (m <sup>2</sup> )	113.4	228.8	23.1	81.9	155.3	314.9	46.2	60.9
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	64.4	63.5	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	176.4	13767.0	0.0	122.1	0.0	2540.7	0.0	2628.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	43.7	0.0	122.1	0.0	63.5	0.0	164.3
<i>Sebastes helvomaculatus</i>	0.0	305.9	0.0	0.0	64.4	317.6	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	95.3	0.0	0.0
<i>Sebastes flavidus</i>	264.7	305.9	0.0	0.0	0.0	127.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	88.2	1311.1	433.1	0.0	128.8	1778.5	216.5	657.1
<i>Ophiodon elongatus</i>	0.0	87.4	0.0	0.0	0.0	127.0	216.5	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	31.8	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	64.4	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	88.2	0.0	0.0	0.0	64.4	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	441.1	2054.1	433.1	122.1	321.9	2540.7	433.1	821.3

Sample	297	298	299	300	301	302	303	304
Label	5662_12	5662_13	5662_14	5662_15	5662_16	5662_17	5662_18	5662_19
Delta Dive	5662	5662	5662	5662	5662	5662	5662	5662
Patch	12	13	14	15	16	17	18	19
Start Time	0:28:14	0:28:30	0:29:57	0:30:36	0:35:21	0:35:46	0:42:09	0:42:19
End Time	0:28:30	0:29:57	0:30:36	0:35:21	0:35:46	0:42:09	0:42:19	0:43:11
Length (m)	10.5	57.1	25.6	187.1	16.4	251.5	6.6	34.1
Area (m <sup>2</sup> )	33.6	182.6	81.9	598.3	52.5	804.0	21.0	109.2
BOTTOM	PS	B	PS	B	PS	B	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	24.9	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1191.0	6297.0	855.0	4329.2	0.0	1778.7	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	16.7	0.0	24.9	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	54.8	0.0	50.1	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	219.0	0.0	250.7	0.0	323.4	0.0	274.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	24.9	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	1478.4	0.0	885.9	762.2	1878.2	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	54.8	122.1	100.3	0.0	37.3	0.0	91.6
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	16.7	0.0	12.4	476.4	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	12.4	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	1807.0	122.1	1303.8	762.2	2288.6	476.4	366.4

Sample	305	306	307	308	309	310	311	312
Label	5662_20	5662_21	5662_22	5662_23	5662_24	5662_25	5662_26	5662_27
Delta Dive	5662	5662	5662	5662	5662	5662	5662	5662
Patch	20	21	22	23	24	25	26	27
Start Time	0:43:11	0:43:30	0:50:19	0:52:45	0:56:55	0:57:44	0:58:19	0:58:30
End Time	0:43:30	0:50:19	0:52:45	0:56:55	0:57:44	0:58:19	0:58:30	1:01:17
Length (m)	12.5	268.5	95.9	164.1	32.2	23.0	7.2	109.6
Area (m <sup>2</sup> )	39.9	858.6	306.5	524.8	102.9	73.5	23.1	350.6
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	477.5	97.9	1257.6	0.0	0.0	0.0	2481.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	19.1	0.0	0.0	0.0	0.0
Sheet sponge	0.0	337.8	0.0	228.7	0.0	816.7	866.1	199.7
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5
<i>Sebastes pinniger</i>	0.0	11.6	0.0	38.1	875.0	1088.9	1732.3	0.0
<i>Sebastes helvomaculatus</i>	0.0	326.1	97.9	304.9	0.0	0.0	0.0	399.4
<i>Sebastes nigrocinctus</i>	0.0	23.3	0.0	38.1	0.0	0.0	0.0	28.5
<i>Sebastes flavidus</i>	0.0	23.3	0.0	0.0	0.0	680.5	433.1	85.6
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	267.9	0.0	1333.9	0.0	0.0	0.0	1369.2
<i>Ophiodon elongatus</i>	0.0	58.2	0.0	57.2	97.2	136.1	0.0	57.1
<i>Hexagrammos</i> spp	0.0	0.0	0.0	38.1	97.2	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	11.6	0.0	19.1	0.0	0.0	0.0	57.1
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	745.4	97.9	1829.3	1069.4	1905.5	2165.4	2025.3



Sample	313	314	315	316	317	318	319	320
Label	5663_1	5663_2	5663_3	5664_1	5665_1	5665_2	5665_3	5665_4
Delta Dive	5663	5663	5663	5664	5665	5665	5665	5665
Patch	1	2	3	1	1	2	3	4
Start Time	0:00:00	0:57:58	0:59:35	0:00:00	0:00:00	0:00:30	0:29:47	0:33:28
End Time	0:57:58	0:59:35	1:01:29	1:01:23	0:00:30	0:29:47	0:33:28	0:34:46
Length (m)	1570.8	43.8	51.5	2490.4	20.4	1197.4	150.6	53.2
Area (m <sup>2</sup> )	3305.1	92.2	108.3	6234.5	59.8	3501.5	440.4	155.4
BOTTOM	PS	B1	SP	PS	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	45.4	217.0	0.0	160.4	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	108.5	92.3	0.0	0.0	2.9	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	17.6	0.0	0.0	4223.1	0.0
Finger sponge	0.0	0.0	0.0	1421.1	0.0	3704.1	3337.6	707.6
Cloud sponge	0.0	0.0	0.0	1212.6	0.0	5.7	0.0	0.0
Vase sponge	0.0	0.0	0.0	2925.6	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	2.9	22.7	0.0
<i>Sebastes helvomaculatus</i>	3.0	0.0	0.0	0.0	501.8	97.1	158.9	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	108.5	92.3	0.0	334.5	22.8	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	60.5	0.0	0.0	6.4	0.0	154.2	22.7	257.3
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	108.5	0.0	0.0	0.0	65.7	476.8	128.7
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	12.1	650.9	369.2	54.5	8195.7	3370.0	5608.1	900.6
<i>Ophiodon elongatus</i>	12.1	0.0	0.0	9.6	0.0	2.9	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	6.1	0.0	0.0	3.2	0.0	11.4	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	72.6	0.0	184.6	6.4	0.0	14.3	0.0	0.0
<i>Eopsetta jordani</i>	24.2	0.0	0.0	6.4	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	181.5	108.5	92.3	86.6	0.0	31.4	0.0	64.3
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
<i>Hydrolagus colliei</i>	6.1	0.0	0.0	59.3	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	3.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	381.2	976.4	738.5	240.6	9032.0	3781.2	6289.3	1350.9

Sample	321	322	323	324	325	326	327	328
Label	5665_5	5665_6	5665_7	5665_8	5665_9	5665_10	5665_11	5665_12
Delta Dive	5665	5665	5665	5665	5665	5665	5665	5665
Patch	5	6	7	8	9	10	11	12
Start Time	0:34:46	0:45:50	0:46:02	0:46:30	0:46:40	0:53:40	0:53:52	0:55:36
End Time	0:45:50	0:46:02	0:46:30	0:46:40	0:53:40	0:53:52	0:55:36	0:55:52
Length (m)	452.5	8.2	19.1	6.8	286.2	8.2	70.9	10.9
Area (m <sup>2</sup> )	1323.3	23.9	55.8	19.9	837.0	23.9	207.3	31.9
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	196.5	0.0	0.0	0.0	11.9	0.0	241.2	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	241.8	0.0	358.4	0.0	286.7	0.0	193.0	627.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	37.8	0.0	0.0	0.0	107.5	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	181.4	0.0	179.2	501.8	59.7	0.0	144.7	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	68.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	5131.2	418.2	2867.3	1003.6	2293.9	836.3	2750.1	1881.7
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	15.1	0.0	0.0	0.0	23.9	0.0	96.5	313.6
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	30.2	836.3	179.2	501.8	95.6	0.0	48.2	627.2
<i>Raja rhina</i>	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	120.9	2090.8	896.0	0.0	23.9	0.0	241.2	940.8
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	5856.6	3345.2	4480.2	2007.1	2903.2	836.3	3473.9	4390.6

Sample	329	330	331	332	333	334	335	336
Label	5665_13	5666_1	5666_2	5666_3	5666_4	5666_5	5666_6	5666_7
Delta Dive	5665	5666	5666	5666	5666	5666	5666	5666
Patch	13	1	2	3	4	5	6	7
Start Time	0:55:52	0:00:00	0:00:35	0:04:27	0:04:47	0:09:14	0:09:40	0:10:00
End Time	1:01:22	0:00:35	0:04:27	0:04:47	0:09:14	0:09:40	0:10:00	0:10:12
Length (m)	224.9	19.1	126.6	10.9	145.7	14.2	10.9	6.6
Area (m <sup>2</sup> )	657.7	46.9	311.2	26.8	358.2	34.9	26.8	16.1
BOTTOM	B1	SP	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	60.8	0.0	0.0	0.0	27.9	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	380.1	0.0	64.3	0.0	139.6	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	106.4	0.0	160.7	0.0	223.4	286.7	2609.2	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	32.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	5245.9	213.0	674.8	372.7	3071.3	0.0	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	32.1	0.0	0.0	286.7	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	30.4	213.0	64.3	0.0	27.9	0.0	0.0	0.0
<i>Raja rhina</i>	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	64.3	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	3740.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	9594.7	426.0	1092.5	372.7	3462.2	573.5	2609.2	0.0

Sample	337	338	339	340	341	342	343	344
Label	5666_8	5666_9	5666_10	5666_11	5666_12	5666_13	5666_14	5666_15
Delta Dive	5666	5666	5666	5666	5666	5666	5666	5666
Patch	8	9	10	11	12	13	14	15
Start Time	0:10:12	0:11:01	0:11:39	0:45:37	0:45:50	0:53:55	0:54:11	0:56:47
End Time	0:11:01	0:11:39	0:45:37	0:45:50	0:53:55	0:54:11	0:56:47	0:56:58
Length (m)	26.7	20.7	1112.4	7.1	264.7	8.7	85.2	6.0
Area (m <sup>2</sup> )	65.7	51.0	2733.8	17.4	650.6	21.5	209.3	14.8
BOTTOM	B1	PS	B1	SP	B1	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	296.3	0.0	245.9	0.0	143.4	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	392.4	303.6	0.0	153.7	0.0	238.9	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1369.3	392.4	5022.3	573.5	3658.3	465.9	2676.1	1355.4
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	152.1	0.0	3.7	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	21.9	0.0	61.5	0.0	0.0	1355.4
<i>Raja rhina</i>	0.0	0.0	11.0	0.0	15.4	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1521.4	784.7	5666.1	573.5	4134.8	465.9	3058.4	2710.9

Sample	345	346	347	348	349	350	351	352
Label	5666_16	5667_1	5667_2	5667_3	5667_4	5667_5	5667_6	5667_7
Delta Dive	5666	5667	5667	5667	5667	5667	5667	5667
Patch	16	1	2	3	4	5	6	7
Start Time	0:56:58	0:00:00	0:08:21	0:08:33	0:11:48	0:12:00	0:15:50	0:16:08
End Time	1:01:34	0:08:21	0:08:33	0:11:48	0:12:00	0:15:50	0:16:08	0:16:49
Length (m)	150.7	322.9	7.7	125.7	7.7	148.3	11.6	26.4
Area (m <sup>2</sup> )	370.2	728.3	17.4	283.5	17.4	334.3	26.2	59.6
BOTTOM	B1	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	1469.3	0.0	1164.2	0.0	3559.4	1146.6	671.2
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	81.0	0.0	0.0	35.3	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	405.2	68.7	573.3	141.1	0.0	59.8	382.2	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	13.7	0.0	0.0	0.0	0.0	764.4	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2268.9	27.5	3439.7	635.0	0.0	119.6	2293.2	1006.8
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	54.9	0.0	0.0	0.0	59.8	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	108.0	329.6	0.0	352.8	0.0	269.2	0.0	0.0
<i>Raja rhina</i>	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	27.0	13.7	0.0	0.0	0.0	0.0	0.0	167.8
<i>Bathyraja kincaidii</i>	27.0	0.0	0.0	0.0	0.0	29.9	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2944.1	508.1	4013.0	1164.2	0.0	538.4	3439.7	1174.5

Sample	353	354	355	356	357	358	359	360
Label	5667_8	5667_9	5667_10	5667_11	5667_12	5667_13	5667_14	5667_15
Delta Dive	5667	5667	5667	5667	5667	5667	5667	5667
Patch	8	9	10	11	12	13	14	15
Start Time	0:16:49	0:18:26	0:19:16	0:19:50	0:21:20	0:22:26	0:22:52	0:24:50
End Time	0:18:26	0:19:16	0:19:50	0:21:20	0:22:26	0:22:52	0:24:50	0:25:13
Length (m)	62.5	32.2	21.9	58.0	42.5	16.8	76.1	14.8
Area (m <sup>2</sup> )	141.0	72.7	49.4	130.8	95.9	37.8	171.5	33.4
BOTTOM	B1	SM	B1	SM	B1	SM	SP	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	354.6	0.0	202.3	0.0	104.2	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	76.4	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	354.6	0.0	0.0	76.4	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	840.8	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	275.2	404.7	152.9	521.2	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1418.4	275.2	0.0	0.0	416.9	264.6	116.6	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	70.9	0.0	0.0	0.0	0.0	0.0	116.6	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.1
<i>Pleuronectiformes</i>	0.0	0.0	202.3	0.0	312.7	793.8	291.5	598.2
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	202.3	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	104.2	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1844.0	550.4	809.3	1146.6	1355.0	1058.4	524.7	897.3

Sample	361	362	363	364	365	366	367	368
Label	5667_16	5667_17	5667_18	5667_19	5667_20	5667_21	5667_22	5667_23
Delta Dive	5667	5667	5667	5667	5667	5667	5667	5667
Patch	16	17	18	19	20	21	22	23
Start Time	0:25:13	0:25:25	0:25:44	0:26:35	0:29:34	0:29:44	0:30:11	0:30:49
End Time	0:25:25	0:25:44	0:26:35	0:29:34	0:29:44	0:30:11	0:30:49	0:31:37
Length (m)	7.7	12.2	32.9	115.4	6.4	17.4	24.5	30.9
Area (m <sup>2</sup> )	17.4	27.6	74.1	260.2	14.5	39.2	55.2	69.8
BOTTOM	SP	B1	SP	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	422.8	0.0	1274.0	0.0	430.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	362.1	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	254.8	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	15032.9	9233.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	269.8	76.9	687.9	0.0	362.1	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	362.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	1448.3	404.7	269.0	687.9	764.4	1629.3	573.3
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	1146.6	362.1	0.0	307.5	0.0	254.8	0.0	430.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	38.4	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	76.9	0.0	0.0	0.0	143.3
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	573.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1719.9	2172.5	674.5	768.7	1375.9	16306.9	11586.5	1146.6

Sample	369	370	371	372	373	374	375	376
Label	5667_24	5667_25	5667_26	5667_27	5667_28	5667_29	5667_30	5667_31
Delta Dive	5667	5667	5667	5667	5667	5667	5667	5667
Patch	24	25	26	27	28	29	30	31
Start Time	0:31:37	0:32:18	0:33:46	0:34:09	0:35:17	0:35:29	0:37:00	0:37:50
End Time	0:32:18	0:33:46	0:34:09	0:35:17	0:35:29	0:37:00	0:37:50	0:43:04
Length (m)	26.4	56.7	14.8	43.8	7.7	58.7	32.2	202.4
Area (m <sup>2</sup> )	59.6	127.9	33.4	98.8	17.4	132.3	72.7	456.4
BOTTOM	B1	SM	B1	SM	B1	SM	SP	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	156.4	299.1	303.5	0.0	75.6	0.0	87.6
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	503.4	78.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	101.2	3439.7	226.8	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	503.4	78.2	0.0	0.0	573.3	226.8	412.8	87.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3188.0	1485.3	2692.0	607.0	1719.9	1587.6	275.2	153.4
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.8
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	167.8	78.2	0.0	0.0	0.0	0.0	137.6	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	234.5	0.0	303.5	0.0	302.4	137.6	328.6
<i>Raja rhina</i>	0.0	78.2	0.0	101.2	0.0	0.0	0.0	21.9
<i>Raja binoculata</i>	0.0	78.2	0.0	0.0	0.0	75.6	0.0	21.9
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	101.2	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4362.6	2110.7	2692.0	1214.0	5732.9	2419.2	963.1	657.3



Sample	377	378	379	380	381	382	383	384
Label	5667_32	5667_33	5668_1	5668_2	5668_3	5668_4	5668_5	5668_6
Delta Dive	5667	5667	5668	5668	5668	5668	5668	5668
Patch	32	33	1	2	3	4	5	6
Start Time	0:43:04	0:43:25	0:00:00	0:03:31	0:04:46	0:07:08	0:07:52	0:09:29
End Time	0:43:25	1:01:36	0:03:31	0:04:46	0:07:08	0:07:52	0:09:29	0:09:52
Length (m)	13.5	703.2	137.3	48.8	92.4	28.6	63.1	15.0
Area (m <sup>2</sup> )	30.5	1585.9	364.6	129.6	245.3	76.0	167.6	39.7
BOTTOM	B1	SM	SM	SP	SM	SP	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	510.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	855.9	0.0	0.0	754.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	326.1	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	18.9	0.0	0.0	40.8	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	327.6	44.1	54.9	77.2	40.8	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	4586.3	138.7	54.9	77.2	978.2	263.1	0.0	251.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	40.8	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	327.6	25.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	327.6	346.8	82.3	0.0	0.0	0.0	119.3	0.0
<i>Raja rhina</i>	0.0	0.0	27.4	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	5569.1	624.3	219.4	154.3	1426.6	263.1	119.3	251.6

Sample	385	386	387	388	389	390	391	392
Label	5668_7	5668_8	5668_9	5668_10	5668_11	5668_12	5668_13	5668_14
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	7	8	9	10	11	12	13	14
Start Time	0:09:52	0:17:11	0:17:47	0:18:07	0:18:22	0:20:46	0:21:23	0:21:36
End Time	0:17:11	0:17:47	0:18:07	0:18:22	0:20:46	0:21:23	0:21:36	0:21:56
Length (m)	285.7	23.4	13.0	9.8	93.7	24.1	843.4	856.4
Area (m <sup>2</sup> )	758.5	62.2	34.6	25.9	248.8	63.9	22.5	34.6
BOTTOM	SM	B1	SM	SP	SM	SP	SM	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	80.4	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	1607.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	289.4	0.0	40.2	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	40.2	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	26.4	0.0	289.4	385.9	281.4	312.9	445.2	0.0
<i>Ophiodon elongatus</i>	0.0	160.8	0.0	0.0	40.2	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	13.2	0.0	289.4	0.0	40.2	0.0	0.0	0.0
<i>Eopsetta jordani</i>	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	26.4	0.0	289.4	0.0	80.4	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	145.0	1768.5	1157.6	385.9	522.5	312.9	445.2	0.0

Sample	393	394	395	396	397	398	399	400
Label	5668_15	5668_16	5668_17	5668_18	5668_19	5668_20	5668_21	5668_22
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	15	16	17	18	19	20	21	22
Start Time	0:21:56	0:22:13	0:22:24	0:22:52	0:24:37	0:25:07	0:25:28	0:25:51
End Time	0:22:13	0:22:24	0:22:52	0:24:37	0:25:07	0:25:28	0:25:51	0:27:09
Length (m)	867.5	874.6	892.9	961.2	19.5	13.7	15.0	50.8
Area (m <sup>2</sup> )	29.4	19.0	48.4	181.4	51.8	36.3	39.7	134.8
BOTTOM	SM	SP	SM	SP	SM	SP	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	251.6	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	55.1	0.0	0.0	754.9	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	55.1	0.0	0.0	0.0	148.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1021.4	0.0	206.7	55.1	192.9	275.6	251.6	74.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	275.6	251.6	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	206.7	55.1	0.0	0.0	0.0	222.6
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	251.6	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1021.4	0.0	413.4	220.5	192.9	551.2	1509.9	445.2

Sample	401	402	403	404	405	406	407	408
Label	5668_23	5668_24	5668_25	5668_26	5668_27	5668_28	5668_29	5668_30
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	23	24	25	26	27	28	29	30
Start Time	0:27:09	0:28:24	0:30:30	0:30:53	0:31:20	0:31:50	0:33:50	0:34:15
End Time	0:28:24	0:30:30	0:30:53	0:31:20	0:31:50	0:33:50	0:34:15	0:34:39
Length (m)	48.8	82.0	15.0	17.6	19.5	78.1	16.3	15.6
Area (m <sup>2</sup> )	129.6	217.7	39.7	46.7	51.8	207.3	43.2	41.5
BOTTOM	SP	SM	SP	SM	SP	SM	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	321.5	0.0	214.4	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	154.3	137.8	754.9	1500.5	0.0	2652.7	926.0	241.2
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	229.7	251.6	0.0	0.0	0.0	0.0	482.3
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	45.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	91.9	251.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	77.2	91.9	0.0	428.7	192.9	48.2	463.0	2893.9
<i>Ophiodon elongatus</i>	0.0	45.9	251.6	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	91.9	0.0	214.4	0.0	96.5	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	48.2	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	77.2	597.2	754.9	643.1	192.9	192.9	463.0	3376.2

Sample	409	410	411	412	413	414	415	416
Label	5668_31	5668_32	5668_33	5668_34	5668_35	5668_36	5668_37	5668_38
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	31	32	33	34	35	36	37	38
Start Time	0:34:39	0:35:40	0:35:50	0:36:10	0:38:33	0:38:44	0:39:40	0:41:00
End Time	0:35:40	0:35:50	0:36:10	0:38:33	0:38:44	0:39:40	0:41:00	0:41:24
Length (m)	39.7	6.5	13.0	93.1	7.2	36.4	52.1	15.6
Area (m <sup>2</sup> )	105.4	17.3	34.6	247.1	19.0	96.8	138.2	41.5
BOTTOM	SP	SPC	SM	SP	B1	SP	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	526.2	103.4	0.0	1446.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	94.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	40.5	0.0	103.4	0.0	241.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	94.9	0.0	0.0	40.5	526.2	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	474.4	0.0	868.2	283.3	0.0	0.0	0.0	723.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	578.8	578.8	0.0	0.0	103.4	217.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	664.2	578.8	1446.9	364.3	526.2	206.7	217.0	964.6

Sample	417	418	419	420	421	422	423	424
Label	5668_39	5668_40	5668_41	5668_42	5668_43	5668_44	5668_45	5668_46
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	39	40	41	42	43	44	45	46
Start Time	0:41:24	0:41:40	0:50:53	0:51:10	0:52:46	0:53:13	0:53:41	0:55:04
End Time	0:41:40	0:50:53	0:51:10	0:52:46	0:53:13	0:53:41	0:55:04	0:55:32
Length (m)	10.4	359.9	11.1	62.5	17.6	18.2	54.0	18.2
Area (m <sup>2</sup> )	27.6	955.5	29.4	165.9	46.7	48.4	143.4	48.4
BOTTOM	SP	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	214.4	0.0	69.7	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	60.3	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	361.7	0.0	340.5	0.0	214.4	206.7	69.7	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	1446.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	31.4	0.0	0.0	214.4	206.7	69.7	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	10.5	340.5	60.3	0.0	0.0	627.6	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	41.9	0.0	60.3	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	167.5	0.0	180.9	0.0	0.0	0.0	206.7
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1808.7	282.6	680.9	361.7	428.7	413.4	767.1	206.7

Sample	425	426	427	428	429	430	431	432
Label	5668_47	5668_48	5668_49	5668_50	5668_51	5668_52	5668_53	5668_54
Delta Dive	5668	5668	5668	5668	5668	5668	5668	5668
Patch	47	48	49	50	51	52	53	54
Start Time	0:55:32	0:55:52	0:56:25	0:56:42	0:56:58	0:57:14	0:58:12	0:58:55
End Time	0:55:52	0:56:25	0:56:42	0:56:58	0:57:14	0:58:12	0:58:55	0:59:06
Length (m)	13.0	21.5	11.1	10.4	10.4	37.7	28.0	7.2
Area (m <sup>2</sup> )	34.6	57.0	29.4	27.6	27.6	100.2	74.3	19.0
BOTTOM	B1	SM	B1	SM	B1	SP	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	199.6	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	289.4	0.0	0.0	0.0	1446.9	0.0	269.2	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	99.8	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	361.7	299.4	403.8	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	340.5	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	0.0	1085.2	399.2	269.2	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	175.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	175.4	340.5	0.0	1446.9	798.3	673.0	0.0

Sample	433	434	435	436	437	438	439	440
Label	5668_55	5668_56	5668_57	5668_58	5669_1	5669_2	5669_3	5669_4
Delta Dive	5668	5668	5668	5668	5669	5669	5669	5669
Patch	55	56	57	58	1	2	3	4
Start Time	0:59:06	0:59:30	1:00:10	1:00:49	0:00:00	0:01:05	0:01:45	0:02:47
End Time	0:59:30	1:00:10	1:00:49	1:01:35	0:01:05	0:01:45	0:02:47	0:03:12
Length (m)	15.6	26.0	25.4	29.9	33.6	20.7	32.1	12.9
Area (m <sup>2</sup> )	41.5	69.1	67.4	79.5	88.8	54.6	84.7	34.1
BOTTOM	B1	SP	SM	SP	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	241.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	482.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	148.4	0.0	112.6	0.0	236.2	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	118.1	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	241.2	0.0	445.2	0.0	450.6	0.0	354.3	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	148.4	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	125.8	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	366.1	354.3	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	241.2	0.0	742.0	125.8	563.2	366.1	1062.9	0.0



Sample	441	442	443	444	445	446	447	448
Label	5669_5	5669_6	5669_7	5669_8	5669_9	5669_10	5669_11	5669_12
Delta Dive	5669	5669	5669	5669	5669	5669	5669	5669
Patch	5	6	7	8	9	10	11	12
Start Time	0:03:12	0:04:38	0:04:58	0:05:56	0:06:20	0:07:03	0:07:58	0:08:20
End Time	0:04:38	0:04:58	0:05:56	0:06:20	0:07:03	0:07:58	0:08:20	0:08:34
Length (m)	44.5	10.3	30.0	12.4	22.2	28.4	11.4	7.2
Area (m <sup>2</sup> )	117.5	27.3	79.2	32.8	58.7	75.1	30.0	19.1
BOTTOM	B1	SM	B1	SP	SM	B1	SM	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	170.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	126.2	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	425.7	0.0	252.5	610.2	0.0	532.5	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	340.6	0.0	332.8	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	133.1	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	596.0	0.0	378.7	610.2	340.6	665.7	332.8	0.0

Sample	449	450	451	452	453	454	455	456
Label	5669_13	5669_14	5669_15	5669_16	5669_17	5669_18	5669_19	5669_20
Delta Dive	5669	5669	5669	5669	5669	5669	5669	5669
Patch	13	14	15	16	17	18	19	20
Start Time	0:08:34	0:09:20	0:13:24	0:13:53	0:14:57	0:18:10	0:21:20	0:23:30
End Time	0:09:20	0:13:24	0:13:53	0:14:57	0:18:10	0:21:20	0:23:30	0:23:40
Length (m)	23.8	126.1	15.0	33.1	99.8	98.2	67.2	5.2
Area (m <sup>2</sup> )	62.8	333.2	39.6	87.4	263.6	259.5	177.5	13.7
BOTTOM	SPC	B1	SM	SPC	B1	tape cut off	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	37.9	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	150.0	252.5	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	240.1	0.0	0.0	265.6	0.0	56.3	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	113.8	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	159.2	0.0	0.0	114.4	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	636.7	3090.9	0.0	0.0	834.6	0.0	1013.8	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	37.9	0.0	0.0	0.0
<i>Pleuronectiformes</i>	159.2	30.0	252.5	228.8	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	114.4	37.9	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	955.1	3541.0	505.0	457.6	1327.9	0.0	1070.2	0.0

Sample	457	458	459	460	461	462	463	464
Label	5669_21	5669_22	5669_23	5669_24	5669_25	5669_26	5669_27	5669_28
Delta Dive	5669	5669	5669	5669	5669	5669	5669	5669
Patch	21	22	23	24	25	26	27	28
Start Time	0:23:40	0:24:58	0:25:35	0:25:50	0:27:03	0:28:00	0:29:05	0:29:20
End Time	0:24:58	0:25:35	0:25:50	0:27:03	0:28:00	0:29:05	0:29:20	0:30:40
Length (m)	40.3	19.1	7.8	37.7	29.5	33.6	7.8	41.4
Area (m <sup>2</sup> )	106.5	50.5	20.5	99.7	77.8	88.8	20.5	109.3
BOTTOM	B1	SM	SPC	SM	SPC	SM	SPC	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	93.9	0.0	0.0	100.3	128.5	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	197.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3473.3	0.0	488.1	401.2	770.8	0.0	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	488.1	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	100.3	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	93.9	197.9	488.1	100.3	0.0	225.3	488.1	457.6
<i>Raja rhina</i>	0.0	0.0	488.1	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	100.3	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3661.1	395.8	1464.4	802.4	899.2	225.3	976.3	457.6

Sample	465	466	467	468	469	470	471	472
Label	5669_29	5669_30	5669_31	5669_32	5669_33	5669_34	5669_35	5669_36
Delta Dive	5669	5669	5669	5669	5669	5669	5669	5669
Patch	29	30	31	32	33	34	35	36
Start Time	0:30:40	0:31:00	0:32:08	0:32:50	0:35:30	0:36:00	0:36:30	0:36:50
End Time	0:31:00	0:32:08	0:32:50	0:35:30	0:36:00	0:36:30	0:36:50	0:37:10
Length (m)	10.3	35.2	21.7	82.7	15.5	15.5	10.3	10.3
Area (m <sup>2</sup> )	27.3	92.9	57.4	218.5	41.0	41.0	27.3	27.3
BOTTOM	SP	SM	SPC	SM	SPC	SM	SPC	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	91.5	0.0	0.0	366.1	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	366.1
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	861.4	174.3	183.1	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	45.8	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	861.4	174.3	320.3	0.0	0.0	366.1	366.1

Sample	473	474	475	476	477	478	479	480
Label	5669_37	5669_38	5669_39	5669_40	5669_41	5669_42	5669_43	5669_44
Delta Dive	5669	5669	5669	5669	5669	5669	5669	5669
Patch	37	38	39	40	41	42	43	44
Start Time	0:37:10	0:38:12	0:42:10	0:43:00	0:45:00	0:45:56	0:46:16	0:49:38
End Time	0:38:12	0:42:10	0:43:00	0:45:00	0:45:56	0:46:16	0:49:38	0:50:05
Length (m)	32.1	123.0	25.8	62.0	29.0	10.3	104.4	14.0
Area (m <sup>2</sup> )	84.7	325.0	68.3	163.9	76.5	27.3	275.9	36.9
BOTTOM	SPC	SM	SPC	SM	SPC	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	108.7	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	236.2	61.5	0.0	183.1	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	118.1	92.3	0.0	61.0	261.5	0.0	435.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	30.8	0.0	0.0	130.8	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	246.1	292.9	244.1	0.0	366.1	72.5	271.2
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	36.2	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	354.3	430.7	292.9	488.1	392.3	366.1	652.5	271.2

Sample	481	482	483	484	485	486	487	488
Label	5669_45	5669_46	5669_47	5669_48	5669_49	5670_1	5670_2	5670_3
Delta Dive	5669	5669	5669	5669	5669	5670	5670	5670
Patch	45	46	47	48	49	1	2	3
Start Time	0:50:05	0:51:00	0:51:12	0:57:33	0:57:47	0:00:00	0:15:20	0:15:31
End Time	0:51:00	0:51:12	0:57:33	0:57:47	1:01:40	0:15:20	0:15:31	0:18:45
Length (m)	28.4	6.2	197.0	7.2	120.5	549.0	6.6	115.8
Area (m <sup>2</sup> )	75.1	16.4	520.3	19.1	318.2	1508.1	18.0	318.0
BOTTOM	SPC	SM	B1	SM	SPC	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	134.5	0.0	157.1	205.6	0.0	157.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	125.8
<i>Sebastes zacentrus</i>	0.0	0.0	38.4	0.0	31.4	46.4	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	46.4	0.0	62.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	19.9	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	399.4	0.0	1672.0	0.0	848.5	2579.4	1109.2	628.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	31.4
<i>Eopsetta jordani</i>	0.0	0.0	19.2	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	1220.4	57.7	523.0	0.0	13.3	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	399.4	1220.4	1921.8	523.0	1037.0	2970.7	1109.2	1037.7

Sample	489	490	491	492	493	494	495	496
Label	5670_4	5670_5	5670_6	5670_7	5670_8	5670_9	5670_10	5670_11
Delta Dive	5670	5670	5670	5670	5670	5670	5670	5670
Patch	4	5	6	7	8	9	10	11
Start Time	0:18:45	0:19:57	0:21:25	0:21:46	0:22:17	0:27:31	0:31:36	0:31:47
End Time	0:19:57	0:21:25	0:21:46	0:22:17	0:27:31	0:31:36	0:31:47	1:01:34
Length (m)	43.0	52.5	12.5	18.5	187.4	146.2	6.6	1066.3
Area (m <sup>2</sup> )	118.0	144.3	34.4	50.8	514.7	401.6	18.0	2929.3
BOTTOM	SM	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	19.4	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
<i>Sebastes pinniger</i>	0.0	69.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	69.3	0.0	0.0	19.4	24.9	0.0	174.1
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	415.9	0.0	0.0	0.0	0.0	0.0	6.8
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
<i>Sebastes elongatus</i>	169.5	69.3	0.0	0.0	38.9	149.4	0.0	54.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	169.5	415.9	290.5	983.9	38.9	323.7	0.0	1386.0
<i>Ophiodon elongatus</i>	0.0	69.3	0.0	0.0	0.0	0.0	0.0	3.4
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	49.8	0.0	20.5
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	38.9	24.9	0.0	3.4
<i>Pleuronectiformes</i>	254.2	0.0	581.0	0.0	446.8	99.6	554.6	88.8
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	593.1	1109.2	871.5	983.9	582.8	672.3	554.6	1843.5

Sample	497	498	499	500	501	502	503	504
Label	5671_1	5671_2	5671_3	5671_4	5671_5	5671_6	5671_7	5671_8
Delta Dive	5671	5671	5671	5671	5671	5671	5671	5671
Patch	1	2	3	4	5	6	7	8
Start Time	0:00:00	0:24:30	0:24:40	0:26:03	0:26:21	0:44:31	0:44:56	0:45:25
End Time	0:24:30	0:24:40	0:26:03	0:26:21	0:44:31	0:44:56	0:45:25	0:45:50
Length (m)	1026.8	7.0	58.0	12.6	761.4	17.5	20.3	17.5
Area (m <sup>2</sup> )	2856.0	19.4	161.3	35.0	2117.7	48.6	56.3	48.6
BOTTOM	B1	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	3.5	0.0	0.0	0.0	9.4	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0
Finger sponge	3.5	0.0	0.0	0.0	14.2	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	7.0	0.0	0.0	0.0	14.2	0.0	0.0	0.0
<i>Sebastes pinniger</i>	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	189.1	0.0	186.0	0.0	155.8	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	7.0	0.0	310.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	31.5	0.0	0.0	0.0	23.6	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	94.5	514.7	62.0	0.0	80.3	1029.4	532.5	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1383.1	0.0	62.0	857.8	1001.1	0.0	709.9	0.0
<i>Ophiodon elongatus</i>	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	70.0	0.0	0.0	0.0	37.8	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	17.5	0.0	0.0	0.0	14.2	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	24.5	0.0	62.0	285.9	28.3	0.0	177.5	617.7
<i>Raja rhina</i>	7.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1897.8	514.7	682.1	1143.8	1364.7	1029.4	1419.9	617.7



Sample	505	506	507	508	509	510	511	512
Label	5671_9	5671_10	5671_11	5671_12	5671_13	5671_14	5671_15	5671_16
Delta Dive	5671	5671	5671	5671	5671	5671	5671	5671
Patch	9	10	11	12	13	14	15	16
Start Time	0:45:50	0:47:25	0:47:53	0:48:18	0:48:33	0:49:15	0:49:31	0:53:48
End Time	0:47:25	0:47:53	0:48:18	0:48:33	0:49:15	0:49:31	0:53:48	0:54:06
Length (m)	66.4	19.6	17.5	10.5	29.3	11.2	179.5	12.6
Area (m <sup>2</sup> )	184.6	54.4	48.6	29.1	81.6	31.1	499.3	35.0
BOTTOM	B1	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	54.2	0.0	0.0	0.0	0.0	0.0	40.1	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	54.2	0.0	617.7	1029.4	0.0	0.0	100.1	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	433.4	0.0	0.0	0.0	735.3	321.7	240.3	285.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	343.1	0.0	321.7	20.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	54.2	919.1	411.8	0.0	0.0	0.0	140.2	571.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	596.0	919.1	1029.4	1372.6	735.3	643.4	540.7	857.8

Sample	513	514	515	516	517	518	519	520
Label	5671_17	5672_1	5672_2	5672_3	5672_4	5672_5	5672_6	5672_7
Delta Dive	5671	5672	5672	5672	5672	5672	5672	5672
Patch	17	1	2	3	4	5	6	7
Start Time	0:54:06	0:00:00	0:03:40	0:05:10	0:06:42	0:06:56	0:07:11	0:07:30
End Time	1:01:04	0:03:40	0:05:10	0:06:42	0:06:56	0:07:11	0:07:30	0:09:20
Length (m)	292.0	109.7	44.9	45.9	7.0	7.5	9.5	54.9
Area (m <sup>2</sup> )	812.1	250.6	102.5	104.8	15.9	17.1	21.6	125.3
BOTTOM	B1	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	79.8	0.0	286.3	0.0	0.0	0.0	319.3
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	123.1	0.0	97.6	95.4	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	147.8	79.8	0.0	0.0	0.0	0.0	0.0	239.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	578.7	279.4	0.0	381.7	0.0	0.0	0.0	798.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	61.6	359.2	878.0	95.4	627.1	0.0	1848.4	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	12.3	0.0	0.0	95.4	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	923.5	718.3	975.5	668.0	627.1	0.0	1848.4	1037.6

Sample	521	522	523	524	525	526	527	528
Label	5672_8	5672_9	5672_10	5672_11	5672_12	5672_13	5672_14	5672_15
Delta Dive	5672	5672	5672	5672	5672	5672	5672	5672
Patch	8	9	10	11	12	13	14	15
Start Time	0:09:20	0:09:38	0:18:47	0:19:34	0:30:50	0:31:03	0:32:06	0:32:20
End Time	0:09:38	0:18:47	0:19:34	0:30:50	0:31:03	0:32:06	0:32:20	0:33:55
Length (m)	9.0	273.9	23.4	337.2	6.5	31.4	7.0	47.4
Area (m <sup>2</sup> )	20.5	625.3	53.5	770.0	14.8	71.8	15.9	108.2
BOTTOM	SPC	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	319.8	0.0	142.9	0.0	139.4	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	111.9	0.0	52.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	111.9	0.0	116.9	0.0	139.4	0.0	92.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	975.5	735.6	186.8	545.5	0.0	418.1	0.0	369.7
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	16.0	0.0	13.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	139.4	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	255.9	373.6	181.8	675.4	0.0	0.0	184.8
<i>Raja rhina</i>	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	16.0	0.0	13.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	975.5	1311.4	560.4	922.1	675.4	696.8	0.0	646.9

Sample	529	530	531	532	533	534	535	536
Label	5672_16	5672_17	5672_18	5672_19	5672_20	5672_21	5672_22	5672_23
Delta Dive	5672	5672	5672	5672	5672	5672	5672	5672
Patch	16	17	18	19	20	21	22	23
Start Time	0:33:55	0:34:10	0:36:38	0:36:50	0:39:43	0:41:00	0:43:18	0:43:51
End Time	0:34:10	0:36:38	0:36:50	0:39:43	0:41:00	0:43:18	0:43:51	0:46:14
Length (m)	7.5	73.8	6.0	86.3	38.4	68.8	16.5	71.3
Area (m <sup>2</sup> )	17.1	168.6	13.7	197.0	87.7	157.2	37.6	162.9
BOTTOM	SPC	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	585.3	0.0	0.0	0.0	0.0	0.0	0.0	245.6
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	59.3	0.0	50.7	0.0	190.9	0.0	184.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	118.6	0.0	152.2	0.0	127.2	0.0	245.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	585.3	949.2	0.0	558.2	0.0	190.9	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	59.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	585.3	355.9	731.6	203.0	456.1	63.6	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1170.6	1542.4	731.6	964.2	456.1	572.6	0.0	429.8

Sample	537	538	539	540	541	542	543	544
Label	5672_24	5672_25	5672_26	5672_27	5672_28	5672_29	5672_30	5672_31
Delta Dive	5672	5672	5672	5672	5672	5672	5672	5672
Patch	24	25	26	27	28	29	30	31
Start Time	0:46:14	0:46:33	0:52:30	0:52:50	0:53:31	0:53:50	0:55:07	0:56:03
End Time	0:46:33	0:52:30	0:52:50	0:53:31	0:53:50	0:55:07	0:56:03	0:57:04
Length (m)	9.5	178.1	10.0	20.5	9.5	38.4	27.9	30.4
Area (m <sup>2</sup> )	21.6	406.6	22.8	46.7	21.6	87.7	63.8	69.5
BOTTOM	SM	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	98.4	0.0	0.0	0.0	0.0	156.8	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	24.6	0.0	0.0	0.0	0.0	0.0	143.9
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	123.0	0.0	0.0	0.0	114.0	313.6	287.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	664.0	439.0	642.4	462.1	114.0	0.0	287.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	24.6	439.0	0.0	0.0	228.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	156.8	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	49.2	0.0	0.0	924.2	228.0	470.3	431.8
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	114.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	114.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	885.4	878.0	642.4	1386.3	912.2	940.7	1151.4

Sample	545	546	547	548	549	550	551	552
Label	5672_32	5672_33	5672_34	5672_35	5673_1	5673_2	5673_3	5673_4
Delta Dive	5672	5672	5672	5672	5673	5673	5673	5673
Patch	32	33	34	35	1	2	3	4
Start Time	0:57:04	0:57:20	0:58:20	1:00:00	0:00:00	0:01:00	0:01:10	0:10:24
End Time	0:57:20	0:58:20	1:00:00	1:01:37	0:01:00	0:01:10	0:10:24	0:10:40
Length (m)	8.0	29.9	49.9	48.4	34.7	5.8	320.1	9.2
Area (m <sup>2</sup> )	18.2	68.3	113.9	110.5	92.7	15.5	856.1	24.7
BOTTOM	SM	B1	SM	B1	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	323.6	0.0	198.6	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	107.9	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	271.5	107.9	0.0	46.7	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	215.7	0.0	350.4	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	90.5	431.4	647.1	315.4	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	215.7	0.0	140.2	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	995.6	647.1	0.0	584.0	404.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	548.7	292.7	702.4	0.0	0.0	0.0	35.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	90.5	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	548.7	292.7	702.4	1448.2	1725.7	647.1	1576.9	404.5

Sample	553	554	555	556	557	558	559	560
Label	5673_5	5673_6	5673_7	5673_8	5673_9	5673_10	5673_11	5673_12
Delta Dive	5673	5673	5673	5673	5673	5673	5673	5673
Patch	5	6	7	8	9	10	11	12
Start Time	0:10:40	0:14:47	0:15:05	0:19:02	0:19:24	0:20:56	0:21:31	0:22:07
End Time	0:14:47	0:15:05	0:19:02	0:19:24	0:20:56	0:21:31	0:22:07	0:22:20
Length (m)	142.7	10.4	136.9	12.7	53.2	20.2	20.8	7.5
Area (m <sup>2</sup> )	381.7	27.8	366.2	34.0	142.2	54.1	55.6	20.1
BOTTOM	B1	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	157.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	52.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	2908.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	183.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	131.0	0.0	136.5	588.3	0.0	184.9	179.8	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	340.6	0.0	273.0	0.0	140.7	0.0	0.0	497.8
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	26.2	0.0	0.0	0.0	0.0	184.9	179.8	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	104.8	359.5	109.2	0.0	70.3	369.8	179.8	0.0
<i>Raja rhina</i>	0.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3746.5	359.5	573.4	588.3	211.0	739.6	539.3	497.8

Sample	561	562	563	564	565	566	567	568
Label	5673_13	5673_14	5673_15	5673_16	5673_17	5673_18	5673_19	5673_20
Delta Dive	5673	5673	5673	5673	5673	5673	5673	5673
Patch	13	14	15	16	17	18	19	20
Start Time	0:22:20	0:23:58	0:24:16	0:24:55	0:28:33	0:38:44	0:39:11	0:42:40
End Time	0:23:58	0:24:16	0:24:55	0:28:33	0:38:44	0:39:11	0:42:40	0:42:50
Length (m)	56.6	10.4	22.5	126.0	353.0	15.6	120.8	5.8
Area (m <sup>2</sup> )	151.4	27.8	60.3	336.9	944.2	41.7	323.0	15.5
BOTTOM	B1	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	29.7	10.6	0.0	0.0	0.0
Finger sponge	0.0	0.0	165.9	0.0	0.0	0.0	92.9	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	66.0	0.0	165.9	0.0	137.7	0.0	92.9	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	66.0	0.0	331.9	178.1	264.8	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	331.9	59.4	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	118.7	105.9	0.0	31.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	59.4	42.4	0.0	31.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	198.1	0.0	165.9	148.4	317.7	0.0	402.5	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	66.0	359.5	165.9	59.4	63.5	0.0	61.9	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	66.0	0.0	165.9	89.1	127.1	239.7	185.8	647.1
<i>Raja rhina</i>	0.0	0.0	0.0	29.7	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	462.2	359.5	1327.4	742.1	1069.7	239.7	805.0	647.1



Sample	569	570	571	572	573	574	575	576
Label	5673_21	5673_22	5673_23	5673_24	5673_25	5674_1	5675_1	5675_2
Delta Dive	5673	5673	5673	5673	5673	5674	5675	5675
Patch	21	22	23	24	25	1	1	2
Start Time	0:42:50	0:47:39	0:47:53	0:56:58	0:57:10	0:00:00	0:00:00	0:05:52
End Time	0:47:39	0:47:53	0:56:58	0:57:10	1:01:24	1:01:38	0:05:52	0:07:17
Length (m)	167.0	8.1	314.9	6.9	146.8	2678.5	283.0	68.3
Area (m <sup>2</sup> )	446.6	21.6	842.2	18.5	392.5	6892.2	767.7	185.4
BOTTOM	B1	SM	B1	SM	B1	SP	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	63.8	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	22.4	0.0	23.7	0.0	51.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florumetra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	6474.2	1618.4
Finger sponge	67.2	924.5	249.4	539.3	127.4	162.5	39.1	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	14.5	416.9	1510.5
Vase sponge	0.0	0.0	0.0	0.0	0.0	181.4	65.1	3182.8
Cup sponge	0.0	0.0	0.0	0.0	0.0	11.6	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.9
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	23.7	0.0	25.5	0.0	0.0	0.0
<i>Sebastes pinniger</i>	22.4	0.0	0.0	0.0	0.0	1.5	0.0	0.0
<i>Sebastes helvomaculatus</i>	134.4	0.0	47.5	0.0	101.9	7.3	65.1	107.9
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	23.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	118.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	179.1	0.0	83.1	0.0	76.4	119.0	78.2	107.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	22.4	0.0	166.2	0.0	0.0	55.1	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	649.4	0.0	1092.4	1617.8	789.8	310.5	1029.1	5394.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	47.9	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
<i>Microstomus pacificus</i>	22.4	0.0	11.9	0.0	25.5	10.2	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
<i>Pleuronectiformes</i>	89.6	462.2	59.4	539.3	0.0	53.7	0.0	53.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	25.5	2.9	13.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	35.6	0.0	25.5	1.5	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	8.7	26.1	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1142.0	462.2	1662.3	2157.1	1070.0	628.3	1211.5	5664.3

Sample	577	578	579	580	581	582	583	584
Label	5675_3	5675_4	5675_5	5675_6	5675_7	5675_8	5675_9	5675_10
Delta Dive	5675	5675	5675	5675	5675	5675	5675	5675
Patch	3	4	5	6	7	8	9	10
Start Time	0:07:17	0:10:30	0:13:19	0:14:49	0:15:03	0:30:29	0:31:48	0:37:48
End Time	0:10:30	0:13:19	0:14:49	0:15:03	0:30:29	0:31:48	0:37:48	0:38:37
Length (m)	155.2	135.9	72.4	11.3	744.5	63.5	289.4	39.4
Area (m <sup>2</sup> )	420.9	368.6	196.3	30.5	2019.5	172.3	785.1	106.9
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	7602.7	2686.1	2700.3	327.5	2208.5	464.3	496.7	0.0
Finger sponge	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
Cloud sponge	451.4	895.4	509.5	327.5	1030.0	1625.2	1362.9	1684.4
Vase sponge	213.8	1709.3	1069.9	3275.3	3565.3	5339.9	4649.0	4772.5
Cup sponge	0.0	27.1	0.0	0.0	5.0	0.0	0.0	0.0
Basket sponge	0.0	27.1	0.0	0.0	19.8	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	24.8	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	23.8	27.1	50.9	327.5	44.6	290.2	12.7	93.6
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	47.5	27.1	0.0	327.5	54.5	0.0	101.9	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	50.9	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapularis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1354.2	3988.4	1171.8	1310.1	1713.3	4933.6	1961.5	3556.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	23.8	0.0	0.0	0.0	0.0	0.0	63.7	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	38.2	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	47.5	0.0	0.0	0.0	5.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1496.8	4042.7	1273.7	1965.2	1842.1	5223.8	2178.0	3649.6

Sample	585	586	587	588	589	590	591	592
Label	5675_11	5675_12	5675_13	5676_1	5676_2	5676_3	5676_4	5676_5
Delta Dive	5675	5675	5675	5676	5676	5676	5676	5676
Patch	11	12	13	1	2	3	4	5
Start Time	0:38:37	0:53:48	0:54:09	0:00:00	0:16:21	0:16:57	0:17:59	0:19:45
End Time	0:53:48	0:54:09	1:01:36	0:16:21	0:16:57	0:17:59	0:19:45	0:21:58
Length (m)	732.4	16.9	359.4	766.5	28.1	48.4	82.8	103.9
Area (m <sup>2</sup> )	1986.8	45.8	974.8	1989.3	73.0	125.7	215.0	269.7
BOTTOM	PS	B1	PS	PS	B1	PS	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	3221.3	1091.8	3528.8	9802.3	6712.1	6919.7	4559.1	7563.8
Finger sponge	10.1	0.0	20.5	0.0	0.0	0.0	0.0	37.1
Cloud sponge	885.9	1091.8	420.6	100.5	821.9	0.0	977.0	370.8
Vase sponge	4253.2	10480.8	4113.5	2231.9	8218.9	4374.6	6838.7	5227.9
Cup sponge	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	79.5	0.0	0.0
<i>Sebastes pinniger</i>	25.2	0.0	0.0	15.1	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	30.2	218.4	20.5	25.1	958.9	79.5	279.1	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	65.4	0.0	82.1	145.8	0.0	0.0	186.1	74.2
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	15.1	0.0	159.1	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1499.9	3930.3	984.8	2166.6	5616.2	2783.8	4884.8	926.9
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	10.3	10.1	0.0	0.0	46.5	37.1
<i>Raja rhina</i>	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	5.0	218.4	10.3	0.0	0.0	159.1	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1656.0	4367.0	1107.9	2382.7	6575.1	3261.0	5396.5	1038.2

Sample	593	594	595	596	597	598	599	600
Label	5676_6	5676_7	5676_8	5676_9	5677_1	5677_2	5677_3	5677_4
Delta Dive	5676	5676	5676	5676	5677	5677	5677	5677
Patch	6	7	8	9	1	2	3	4
Start Time	0:21:58	0:22:57	0:23:12	0:24:18	0:00:00	0:02:05	0:03:02	0:03:24
End Time	0:22:57	0:23:12	0:24:18	1:01:25	0:02:05	0:03:02	0:03:24	0:04:08
Length (m)	46.1	11.7	51.6	1740.1	80.1	36.5	14.1	28.2
Area (m <sup>2</sup> )	119.6	30.4	133.8	4516.0	220.9	100.7	38.9	77.8
BOTTOM	B1	PS	B1	PS	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	271.6	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	5600.0	2958.8	4632.4	9751.9	15207.6	15881.0	13629.7	17615.7
Finger sponge	0.0	0.0	0.0	15.5	0.0	0.0	0.0	0.0
Cloud sponge	2173.1	986.3	1195.5	347.6	0.0	99.3	0.0	0.0
Vase sponge	4680.6	4273.8	5753.2	4856.0	814.7	893.3	1543.0	1543.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	167.2	0.0	224.2	8.9	0.0	595.5	0.0	257.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	297.8	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	167.2	0.0	149.4	141.7	181.0	198.5	257.2	257.2
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	2.2	0.0	0.0	0.0	385.7
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	28.8	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	4011.9	1315.0	8891.3	1959.7	1538.9	9230.8	1543.0	4886.1
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	17.7	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	83.6	0.0	0.0	6.6	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	4429.8	1315.0	9264.9	2190.0	1719.9	10322.6	1800.1	5786.2

Sample	601	602	603	604	605	606	607	608
Label	5677_5	5678_1	5679_1	5679_2	5679_3	5679_4	5679_5	5679_6
Delta Dive	5677	5678	5679	5679	5679	5679	5679	5679
Patch	5	1	1	2	3	4	5	6
Start Time	0:04:08	0:00:00	0:00:00	0:04:48	0:05:04	0:09:04	0:09:17	0:11:32
End Time	1:01:34	0:30:41	0:04:48	0:05:04	0:09:04	0:09:17	0:11:32	0:11:57
Length (m)	2209.3	1141.4	162.6	9.0	135.5	7.3	76.2	14.1
Area (m <sup>2</sup> )	6090.9	2811.5	442.3	24.6	368.6	20.0	207.3	38.4
BOTTOM	PS	PS	SS	B1	SS	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	46.0	451.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	11912.8	0.0	180.9	0.0	54.3	3005.4	1688.2	260.5
Finger sponge	6.6	81.8	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	55.8	28.5	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	2237.8	867.9	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	4.9	14.2	113.1	0.0	0.0	0.0	48.2	0.0
<i>Sebastes helvomaculatus</i>	24.6	28.5	22.6	0.0	0.0	0.0	0.0	260.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	257.8	131.6	22.6	0.0	27.1	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	1.6	39.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2269.0	537.1	633.1	407.0	298.5	4007.2	916.5	520.9
<i>Ophiodon elongatus</i>	1.6	0.0	45.2	0.0	0.0	0.0	0.0	520.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	8.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	8.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	3.6	22.6	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	26.3	74.7	45.2	0.0	271.3	0.0	241.2	0.0
<i>Raja rhina</i>	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2626.9	871.4	927.0	407.0	596.9	4007.2	1205.9	1302.3

Sample	609	610	611	612	613	614	615	616
Label	5679_7	5679_8	5679_9	5679_10	5679_11	5679_12	5679_13	5679_14
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5679
Patch	7	8	9	10	11	12	13	14
Start Time	0:11:57	0:16:12	0:17:20	0:17:32	0:17:57	0:18:10	0:19:03	0:27:10
End Time	0:16:12	0:17:20	0:17:32	0:17:57	0:18:10	0:19:03	0:27:10	0:27:22
Length (m)	144.0	38.4	6.8	14.1	7.3	29.9	275.0	6.8
Area (m <sup>2</sup> )	391.6	104.4	18.4	38.4	20.0	81.4	747.9	18.4
BOTTOM	SP	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	1627.9	0.0	5990.8	0.0	1597.2	2594.0	18992.6
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	287.3	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	287.3	0.0	781.4	0.0	368.6	0.0	1085.3
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	51.1	0.0	0.0	0.0	0.0	0.0	147.1	542.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	306.4	1819.5	1627.9	1562.8	1001.8	1842.9	561.6	2713.2
<i>Ophiodon elongatus</i>	25.5	0.0	0.0	0.0	0.0	0.0	13.4	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	153.2	0.0	0.0	0.0	0.0	0.0	13.4	0.0
<i>Pleuronectiformes</i>	102.1	0.0	0.0	0.0	0.0	122.9	80.2	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	638.4	2106.7	1627.9	2344.2	1001.8	2334.4	815.6	4341.2

Sample	617	618	619	620	621	622	623	624
Label	5679_15	5679_16	5679_17	5679_18	5679_19	5679_20	5679_21	5679_22
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5679
Patch	15	16	17	18	19	20	21	22
Start Time	0:27:22	0:31:03	0:31:15	0:32:34	0:33:33	0:33:52	0:34:15	0:34:48
End Time	0:31:03	0:31:15	0:32:34	0:33:33	0:33:52	0:34:15	0:34:48	0:35:25
Length (m)	124.8	6.8	44.6	33.3	10.7	13.0	18.6	20.9
Area (m <sup>2</sup> )	339.4	18.4	121.3	90.6	29.2	35.3	50.7	56.8
BOTTOM	SM	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	3948.3	8139.7	494.6	16003.4	5483.6	11041.7	3157.2	2463.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	331.1	0.0	849.4	0.0	528.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	88.4	0.0	82.4	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	110.4	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	795.6	17364.6	164.9	9160.6	2056.3	16137.8	789.3	704.0
<i>Ophiodon elongatus</i>	0.0	0.0	82.4	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	265.2	0.0	164.9	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1149.1	17364.6	494.6	9602.1	2056.3	16987.2	789.3	1583.9

Sample	625	626	627	628	629	630	631	632
Label	5679_23	5679_24	5679_25	5679_26	5679_27	5679_28	5679_29	5679_30
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5679
Patch	23	24	25	26	27	28	29	30
Start Time	0:35:25	0:35:42	0:36:41	0:37:33	0:37:51	0:38:00	0:38:20	0:38:56
End Time	0:35:42	0:36:41	0:37:33	0:37:51	0:38:00	0:38:20	0:38:56	0:39:16
Length (m)	9.6	33.3	29.4	10.2	5.1	11.3	20.3	11.3
Area (m <sup>2</sup> )	26.1	90.6	79.9	27.6	13.8	30.7	55.3	30.7
BOTTOM	SM	B1	SM	B1	SM	B	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	180.9	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	6070.3	375.7	361.8	0.0	1302.3	0.0	0.0
Finger sponge	0.0	0.0	125.2	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	626.1	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	331.1	125.2	0.0	0.0	0.0	0.0	325.6
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	662.2	0.0	361.8	723.5	325.6	180.9	325.6
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	325.6	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	6291.0	7263.1	2532.3	0.0	1627.9	0.0	651.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	180.9	0.0
<i>Raja rhina</i>	0.0	0.0	125.2	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	6953.2	7388.3	2894.1	723.5	2279.1	361.8	976.8



Sample	633	634	635	636	637	638	639	640
Label	5679_31	5679_32	5679_33	5679_34	5679_35	5679_36	5679_37	5679_38
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5679
Patch	31	32	33	34	35	36	37	38
Start Time	0:39:16	0:40:00	0:40:59	0:41:34	0:42:14	0:42:30	0:42:48	0:49:38
End Time	0:40:00	0:40:59	0:41:34	0:42:14	0:42:30	0:42:48	0:49:38	0:51:25
Length (m)	24.8	33.3	19.8	22.6	9.0	10.2	231.5	60.4
Area (m <sup>2</sup> )	67.6	90.6	53.7	61.4	24.6	27.6	629.6	164.3
BOTTOM	SM	B1	SM	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	47.6	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	148.0	3200.7	0.0	1953.5	0.0	723.5	317.6	6694.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	79.4	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9
<i>Sebastes helvomaculatus</i>	296.0	441.5	0.0	488.4	0.0	361.8	0.0	486.9
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	47.6	60.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	110.4	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	592.0	1876.3	0.0	3255.9	0.0	1808.8	301.8	2677.7
<i>Ophiodon elongatus</i>	0.0	110.4	0.0	0.0	0.0	361.8	0.0	182.6
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	142.9	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	888.0	2538.5	0.0	3744.3	0.0	2532.3	492.4	3529.7

Sample	641	642	643	644	645	646	647	648
Label	5679_39	5679_40	5679_41	5679_42	5679_43	5679_44	5679_45	5679_46
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5679
Patch	39	40	41	42	43	44	45	46
Start Time	0:51:25	0:51:49	0:52:04	0:53:07	0:53:56	0:54:54	0:55:05	0:55:28
End Time	0:51:49	0:52:04	0:53:07	0:53:56	0:54:54	0:55:05	0:55:28	0:55:40
Length (m)	13.6	8.5	35.6	27.7	32.7	6.2	13.0	6.8
Area (m <sup>2</sup> )	36.9	23.0	96.7	75.2	89.1	16.9	35.3	18.4
BOTTOM	B	B	SM	B1	SM	B	SM	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	103.4	0.0	224.5	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1356.6	4775.3	0.0	4252.6	0.0	15391.4	1981.8	20620.5
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	2170.6	0.0	1860.5	0.0	2919.1	0.0	5096.1	1085.3
Vase sponge	0.0	0.0	0.0	0.0	224.5	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	542.6	434.1	0.0	664.5	0.0	592.0	0.0	542.6
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	566.2	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	7054.4	7814.1	2997.5	2790.7	898.2	592.0	849.4	1085.3
<i>Ophiodon elongatus</i>	271.3	0.0	206.7	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	103.4	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	7868.4	8248.2	3307.6	3455.2	898.2	1184.0	1415.6	1627.9

Sample	649	650	651	652	653	654	655	656
Label	5679_47	5679_48	5679_49	5679_50	5679_51	5679_52	5679_53	5680_1
Delta Dive	5679	5679	5679	5679	5679	5679	5679	5680
Patch	47	48	49	50	51	52	53	1
Start Time	0:55:40	0:57:54	0:58:10	0:58:20	0:58:32	0:59:04	0:59:42	0:00:00
End Time	0:57:54	0:58:10	0:58:20	0:58:32	0:59:04	0:59:42	1:01:36	0:00:24
Length (m)	75.7	9.0	5.6	6.8	18.1	21.5	64.4	15.0
Area (m <sup>2</sup> )	205.8	24.6	15.4	18.4	49.1	58.4	175.1	41.2
BOTTOM	SM	B1	SM	B1	SM	B1	SM	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1798.0	15872.4	0.0	8139.7	0.0	1713.6	457.0	10675.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	2624.1	0.0	0.0	0.0	0.0	0.0	4798.1	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	285.6	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	48.6	407.0	0.0	1085.3	0.0	514.1	57.1	727.9
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	48.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1360.7	8953.6	1953.5	1627.9	2645.4	3084.5	2399.1	2426.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	171.4	57.1	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	48.6	0.0	0.0	0.0	0.0	0.0	57.1	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1506.4	9360.6	1953.5	2713.2	2645.4	3770.0	2570.4	3154.1

Sample	657	658	659	660	661	662	663	664
Label	5680_2	5680_3	5680_4	5680_5	5680_6	5680_7	5680_8	5680_9
Delta Dive	5680	5680	5680	5680	5680	5680	5680	5680
Patch	2	3	4	5	6	7	8	9
Start Time	0:00:24	0:37:52	0:39:08	0:39:50	0:49:21	0:50:10	0:50:51	0:51:05
End Time	0:37:52	0:39:08	0:39:50	0:49:21	0:50:10	0:50:51	0:51:05	0:52:08
Length (m)	1409.2	47.6	26.3	357.9	30.7	25.7	8.8	39.5
Area (m <sup>2</sup> )	3860.6	130.5	72.1	980.6	84.2	70.4	24.0	108.2
BOTTOM	PS	B1	PS	B1	PS	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	5.2	76.6	0.0	20.4	0.0	426.1	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1129.4	35933.5	17468.7	43513.8	10101.0	17468.7	7070.7	9057.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	51.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	10.4	0.0	554.6	51.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	76.6	0.0	214.2	0.0	142.0	0.0	92.4
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	30.6	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	13.0	229.9	415.9	20.4	0.0	0.0	0.0	92.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	339.3	7508.5	4159.2	9483.9	3921.6	7385.2	6238.8	7948.7
<i>Ophiodon elongatus</i>	2.6	0.0	0.0	10.2	237.7	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	76.6	0.0	0.0	0.0	0.0	0.0	92.4
<i>Hippoglossus stenolepis</i>	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	15.5	0.0	0.0	0.0	0.0	142.0	0.0	0.0
<i>Raja rhina</i>	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	18.1	0.0	0.0	163.2	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	409.3	7891.6	5129.7	10065.2	4159.2	7669.2	6238.8	8226.0

Sample	665	666	667	668	669	670	671	672
Label	5680_10	5681_1	5681_2	5681_3	5681_4	5681_5	5681_6	5681_7
Delta Dive	5680	5681	5681	5681	5681	5681	5681	5681
Patch	10	1	2	3	4	5	6	7
Start Time	0:52:08	0:00:00	0:10:55	0:11:27	0:12:12	0:12:45	0:13:21	0:13:43
End Time	1:01:33	0:10:55	0:11:27	0:12:12	0:12:45	0:13:21	0:13:43	0:14:12
Length (m)	354.2	438.2	21.4	30.1	22.1	24.1	14.7	19.4
Area (m <sup>2</sup> )	970.3	1072.1	52.4	73.7	54.0	58.9	36.0	47.5
BOTTOM	PS	B	SP	B1	SP	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	10.3	46.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	144.3	23739.5	5155.1	21316.3	15367.0	8485.8	8053.8	15590.4
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	223.9	190.9	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	354.5	0.0	678.9	0.0	0.0	0.0	421.4
<i>Sebastes nigrocinctus</i>	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	51.5	0.0	0.0	0.0	185.1	0.0	277.7	210.7
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	74.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	154.6	6762.7	572.8	4480.5	555.4	1188.0	833.1	7163.2
<i>Ophiodon elongatus</i>	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	10.3	9.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	247.3	7462.3	763.7	5159.4	740.6	1188.0	1110.9	7795.2

Sample	673	674	675	676	677	678	679	680
Label	5681_8	5681_9	5681_10	5681_11	5681_12	5681_13	5681_14	5681_15
Delta Dive	5681	5681	5681	5681	5681	5681	5681	5681
Patch	8	9	10	11	12	13	14	15
Start Time	0:14:12	0:14:55	0:24:31	0:24:42	0:25:25	0:25:43	0:26:56	0:27:20
End Time	0:14:55	0:24:31	0:24:42	0:25:25	0:25:43	0:26:56	0:27:20	0:28:20
Length (m)	28.8	385.3	7.4	28.8	12.0	48.8	16.1	40.1
Area (m <sup>2</sup> )	70.4	942.8	18.0	70.4	29.5	119.5	39.3	98.2
BOTTOM	SP	B1	PS	B1	SP	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	142.1	0.0	0.0	0.0	0.0	0.0	254.6	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	12645.8	30283.6	7220.6	27707.1	26475.6	26782.5	29276.0	23013.4
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	142.1	212.1	0.0	710.4	339.4	167.4	0.0	101.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	31.8	0.0	142.1	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	339.4	83.7	509.1	101.8
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	63.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2557.6	9291.9	1110.9	5257.2	3394.3	4184.8	4073.2	1629.3
<i>Ophiodon elongatus</i>	0.0	63.6	0.0	0.0	0.0	83.7	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	83.7	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	10.6	0.0	0.0	0.0	83.7	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2699.7	9695.0	1110.9	6109.8	4073.2	4686.9	4582.3	1832.9

Sample	681	682	683	684	685	686	687	688
Label	5681_16	5681_17	5681_18	5681_19	5681_20	5681_21	5681_22	5681_23
Delta Dive	5681	5681	5681	5681	5681	5681	5681	5681
Patch	16	17	18	19	20	21	22	23
Start Time	0:28:20	0:28:36	0:29:14	0:37:23	0:37:38	0:37:50	0:38:05	0:38:52
End Time	0:28:36	0:29:14	0:37:23	0:37:38	0:37:50	0:38:05	0:38:52	0:39:10
Length (m)	10.7	25.4	327.1	10.0	8.0	10.0	31.4	12.0
Area (m <sup>2</sup> )	26.2	62.2	800.4	24.6	19.6	24.6	76.9	29.5
BOTTOM	SP	B1	PS	B1	SP	B1	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	18711.2	21223.4	1599.3	19958.6	9673.8	18329.3	1819.9	17989.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	407.3	0.0	407.3	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	381.9	0.0	37.5	0.0	0.0	0.0	130.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	1929.4	112.4	5702.4	1018.3	4887.8	780.0	4752.0
<i>Ophiodon elongatus</i>	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	37.5	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	381.9	1929.4	212.4	6109.8	1018.3	5295.1	910.0	4752.0

Sample	689	690	691	692	693	694	695	696
Label	5681_24	5682_1	5682_2	5682_3	5682_4	5682_5	5682_6	5682_7
Delta Dive	5681	5682	5682	5682	5682	5682	5682	5682
Patch	24	1	2	3	4	5	6	7
Start Time	0:39:10	0:00:00	0:06:09	0:06:33	0:09:19	0:09:51	0:15:56	0:16:08
End Time	1:01:01	0:06:09	0:06:33	0:09:19	0:09:51	0:15:56	0:16:08	0:17:15
Length (m)	877.1	226.1	14.7	101.7	19.6	223.7	7.4	41.1
Area (m <sup>2</sup> )	2145.7	526.6	34.3	236.9	45.7	520.9	17.1	95.6
BOTTOM	PS	PS	B	PS	B	PS	B	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	38.0	0.0	0.0	0.0	57.6	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	163.1	246.8	33281.2	1392.9	37879.3	6661.0	33281.2	5751.7
Finger sponge	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	875.8	0.0	656.9	0.0	1751.6	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	37.3	0.0	0.0	211.0	0.0	76.8	0.0	104.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	41.9	19.0	2335.5	126.6	437.9	115.2	2919.4	104.6
<i>Ophiodon elongatus</i>	4.7	0.0	0.0	42.2	0.0	19.2	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	19.2	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	41.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	37.3	19.0	0.0	42.2	219.0	0.0	0.0	0.0
<i>Raja rhina</i>	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	4.7	0.0	0.0	0.0	0.0	19.2	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	172.4	38.0	3211.3	422.1	1313.7	249.5	4671.0	209.2



Sample	697	698	699	700	701	702	703	704
Label	5682_8	5682_9	5682_10	5682_11	5682_12	5682_13	5682_14	5682_15
Delta Dive	5682	5682	5682	5682	5682	5682	5682	5682
Patch	8	9	10	11	12	13	14	15
Start Time	0:17:15	0:17:54	0:18:20	0:18:45	0:21:41	0:22:38	0:31:21	0:32:17
End Time	0:17:54	0:18:20	0:18:45	0:21:41	0:22:38	0:31:21	0:32:17	0:35:51
Length (m)	23.9	15.9	15.3	107.9	34.9	320.5	34.3	131.1
Area (m <sup>2</sup> )	55.7	37.1	35.7	251.2	81.4	746.4	79.9	305.4
BOTTOM	B	PS	B	PS	B	PS	B	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	159.2	0.0	13.4	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	39.8	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	19941.8	7276.1	14573.7	9872.9	17332.1	3134.9	20143.9	1506.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	79.6	122.9	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	808.5	280.3	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	359.3	0.0	0.0	119.4	983.4	26.8	1126.1	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	179.7	269.5	0.0	119.4	0.0	53.6	0.0	32.7
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	359.3	269.5	0.0	238.9	737.5	267.9	1751.6	1178.7
<i>Ophiodon elongatus</i>	0.0	0.0	280.3	0.0	0.0	13.4	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	122.9	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.0
<i>Hydrolagus colliei</i>	179.7	0.0	0.0	0.0	0.0	0.0	0.0	65.5
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1077.9	1347.4	560.5	477.7	1843.8	375.1	2877.7	1276.9

Sample	705	706	707	708	709	710	711	712
Label	5682_16	5682_17	5682_18	5682_19	5684_1	5684_2	5684_3	5684_4
Delta Dive	5682	5682	5682	5682	5684	5684	5684	5684
Patch	16	17	18	19	1	2	3	4
Start Time	0:35:51	0:36:22	0:53:39	0:55:19	0:00:00	0:02:12	0:02:43	0:05:08
End Time	0:36:22	0:53:39	0:55:19	1:01:33	0:02:12	0:02:43	0:05:08	0:05:46
Length (m)	19.0	635.5	61.3	229.2	68.7	16.1	75.5	19.8
Area (m <sup>2</sup> )	44.2	1480.0	142.7	533.8	204.4	48.0	224.5	58.8
BOTTOM	B	PS	B	PS	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	13.5	0.0	37.5	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	14917.2	331.1	20038.8	430.9	195.7	5416.1	356.3	28039.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	48.9	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	70.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	140.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	140.1	0.0	48.9	0.0	44.5	509.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	47.3	280.3	93.7	0.0	0.0	44.5	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	339.9
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2938.2	108.1	770.7	18.7	0.0	1041.6	0.0	1359.5
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	18.7	0.0	208.3	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	33.8	0.0	18.7	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	6.8	0.0	18.7	48.9	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	6.8	0.0	0.0	48.9	0.0	89.1	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2938.2	209.5	1401.3	206.1	146.8	1249.9	178.1	2209.2

Sample	713	714	715	716	717	718	719	720
Label	5684_5	5684_6	5684_7	5684_8	5684_9	5684_10	5684_11	5684_12
Delta Dive	5684	5684	5684	5684	5684	5684	5684	5684
Patch	5	6	7	8	9	10	11	12
Start Time	0:05:46	0:07:37	0:08:00	0:09:46	0:11:02	0:12:35	0:12:57	0:13:36
End Time	0:07:37	0:08:00	0:09:46	0:11:02	0:12:35	0:12:57	0:13:36	0:14:00
Length (m)	57.8	12.0	55.2	39.6	48.4	11.5	20.3	12.5
Area (m <sup>2</sup> )	171.9	35.6	164.1	117.7	144.0	34.1	60.4	37.2
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	60.9	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	116.4	9826.8	487.4	6712.5	0.0	880.6	0.0	538.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	174.5	280.8	0.0	339.9	0.0	293.5	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	60.9	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	165.6	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	60.9	85.0	0.0	0.0	0.0	269.1
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	523.6	1684.6	60.9	1699.4	1735.9	4696.4	331.2	1883.5
<i>Ophiodon elongatus</i>	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	58.2	0.0	60.9	0.0	69.4	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	269.1
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	69.4	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	872.7	1965.4	243.7	2124.2	1874.8	4990.0	496.7	2421.6

Sample	721	722	723	724	725	726	727	728
Label	5684_13	5684_14	5684_15	5684_16	5684_17	5684_18	5684_19	5684_20
Delta Dive	5684	5684	5684	5684	5684	5684	5684	5684
Patch	13	14	15	16	17	18	19	20
Start Time	0:14:00	0:15:06	0:16:26	0:17:01	0:17:26	0:18:05	0:21:29	0:22:05
End Time	0:15:06	0:16:26	0:17:01	0:17:26	0:18:05	0:21:29	0:22:05	0:22:53
Length (m)	34.4	41.7	18.2	13.0	20.3	106.2	18.7	25.0
Area (m <sup>2</sup> )	102.2	123.9	54.2	38.7	60.4	315.9	55.7	74.3
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	63.3	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	5085.4	0.0	1033.2	165.6	2722.3	0.0	672.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	134.5
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	161.4	0.0	258.3	0.0	221.6	0.0	134.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	782.7	1775.8	0.0	0.0	0.0	3735.3	896.9	1076.3
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	184.5	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	97.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	258.3	0.0	31.7	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	880.6	1937.3	184.5	516.6	0.0	3988.5	896.9	1210.8

Sample	729	730	731	732	733	734	735	736
Label	5684_21	5684_22	5684_23	5684_24	5684_25	5684_26	5684_27	5684_28
Delta Dive	5684	5684	5684	5684	5684	5684	5684	5684
Patch	21	22	23	24	25	26	27	28
Start Time	0:22:53	0:23:52	0:26:59	0:28:12	0:28:30	0:29:53	0:30:47	0:30:59
End Time	0:23:52	0:26:59	0:28:12	0:28:30	0:29:53	0:30:47	0:30:59	0:36:48
Length (m)	30.7	97.4	38.0	9.4	43.2	28.1	6.2	181.7
Area (m <sup>2</sup> )	91.4	289.6	113.0	27.9	128.5	83.6	18.6	540.4
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	69.1	0.0	0.0	0.0	0.0	0.0	18.5
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	5905.1	0.0	4663.8	0.0	12915.2	538.1	8270.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	109.5	172.7	0.0	358.8	0.0	358.8	0.0	407.1
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
<i>Sebastes flavidus</i>	109.5	69.1	0.0	0.0	0.0	119.6	0.0	74.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	358.8	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	34.5	0.0	0.0	0.0	119.6	0.0	74.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	358.8	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	766.2	4696.4	884.6	0.0	1011.4	478.3	0.0	3552.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	239.2	0.0	18.5
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1094.5	4972.7	884.6	1076.3	1011.4	1315.4	0.0	4163.2

Sample	737	738	739	740	741	742	743	744
Label	5684_29	5684_30	5684_31	5684_32	5684_33	5684_34	5684_35	5684_36
Delta Dive	5684	5684	5684	5684	5684	5684	5684	5684
Patch	29	30	31	32	33	34	35	36
Start Time	0:36:48	0:39:25	0:41:48	0:42:54	0:48:14	0:50:54	0:52:41	0:53:56
End Time	0:39:25	0:41:48	0:42:54	0:48:14	0:50:54	0:52:41	0:53:56	0:54:34
Length (m)	81.7	74.5	34.4	166.6	83.3	55.7	39.1	19.8
Area (m <sup>2</sup> )	243.1	221.4	102.2	495.5	247.8	165.7	116.1	58.8
BOTTOM	PS	B	PS	B	PS	B	PS	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	164.5	1354.7	97.8	7708.8	161.4	422.5	688.8	11725.7
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	45.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	316.1	0.0	383.4	40.4	120.7	0.0	1699.4
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	20.2	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	41.1	45.2	195.7	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	60.5	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	5552.7	5238.3	1076.3	4419.4	161.4	2353.7	0.0	3398.7
<i>Ophiodon elongatus</i>	82.3	90.3	97.8	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	86.1	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	97.8	0.0	0.0	120.7	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	40.4	60.4	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	5676.1	5735.1	1467.6	4883.6	242.2	2655.5	86.1	5098.1

Sample	745	746	747	748	749	750	751	752
Label	5684_37	5684_38	5684_39	5684_40	5684_41	5684_42	5684_43	5685_1
Delta Dive	5684	5684	5684	5684	5684	5684	5684	5685
Patch	37	38	39	40	41	42	43	1
Start Time	0:54:34	0:56:52	0:57:03	0:59:38	0:59:50	1:00:09	1:00:59	0:00:00
End Time	0:56:52	0:57:03	0:59:38	0:59:50	1:00:09	1:00:59	1:01:37	0:15:40
Length (m)	71.9	5.7	80.7	6.2	9.9	26.0	19.8	670.1
Area (m <sup>2</sup> )	213.7	17.0	240.0	18.6	29.4	77.4	58.8	1559.3
BOTTOM	PS	B	PS	B	PS	B	PS	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	93.6	2348.2	250.0	0.0	339.9	1549.8	339.9	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.7
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	645.8	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	46.8	0.0	83.3	0.0	0.0	0.0	0.0	6.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	46.8	0.0	83.3	1076.3	0.0	3358.0	169.9	6.4
<i>Ophiodon elongatus</i>	0.0	0.0	41.7	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	46.8	0.0	0.0	0.0	0.0	0.0	0.0	12.8
<i>Pleuronectiformes</i>	46.8	0.0	83.3	0.0	0.0	0.0	0.0	83.4
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8
<i>Hydrolagus colliei</i>	46.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	234.0	0.0	291.6	1076.3	0.0	4003.7	169.9	179.6

Sample	753	754	755	756	757	758	759	760
Label	5685_2	5685_3	5685_4	5685_5	5685_6	5685_7	5685_8	5685_9
Delta Dive	5685	5685	5685	5685	5685	5685	5685	5685
Patch	2	3	4	5	6	7	8	9
Start Time	0:15:40	0:15:50	0:16:42	0:17:27	0:17:53	0:20:07	0:36:36	0:37:30
End Time	0:15:50	0:16:42	0:17:27	0:17:53	0:20:07	0:36:36	0:37:30	0:47:41
Length (m)	7.1	37.1	32.1	18.5	95.5	705.0	38.5	435.5
Area (m <sup>2</sup> )	16.6	86.3	74.6	43.1	222.3	1640.6	89.6	1013.6
BOTTOM	SP	SM	B1	SM	B1	SM	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	231.9	0.0	12.2	0.0	19.7
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	223.3	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	36.6	111.6	0.0
Vase sponge	0.0	0.0	0.0	0.0	90.0	6.1	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	45.0	0.0	111.6	0.0
<i>Sebastes pinniger</i>	0.0	0.0	267.9	0.0	359.9	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	134.0	0.0	809.8	0.0	111.6	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	269.9	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	267.9	231.9	404.9	67.0	1004.7	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	134.0	0.0	179.9	30.5	0.0	9.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	6.1	0.0	9.9
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	12.2	0.0	19.7
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	6.1	0.0	9.9
<i>Pleuronectiformes</i>	0.0	115.9	134.0	0.0	0.0	249.9	223.3	39.5
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	6.1	0.0	9.9
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	90.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	115.9	937.7	231.9	2249.4	377.9	1451.3	108.5



Sample	761	762	763	764	765	766	767	768
Label	5685_10	5685_11	5685_12	5685_13	5685_14	5685_15	5686_1	5686_2
Delta Dive	5685	5685	5685	5685	5685	5685	5686	5686
Patch	10	11	12	13	14	15	1	2
Start Time	0:47:41	0:48:12	0:48:43	0:50:20	0:59:17	1:01:04	0:00:00	0:32:43
End Time	0:48:12	0:48:43	0:50:20	0:59:17	1:01:04	1:01:38	0:32:43	0:33:24
Length (m)	22.1	22.1	69.1	382.8	76.3	24.2	1313.4	27.4
Area (m <sup>2</sup> )	51.4	51.4	160.9	890.8	177.5	56.4	3324.9	69.4
BOTTOM	B1	SM	B1	SM	B1	SM	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	22.5	0.0	0.0	135.3	144.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	194.5	0.0	62.1	0.0	169.0	0.0	3.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	2291.8	23615.7
Finger sponge	0.0	0.0	0.0	11.2	0.0	0.0	39.1	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	4270.8	432.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	6.0	288.0
<i>Sebastes pinniger</i>	0.0	194.5	0.0	0.0	0.0	0.0	39.1	1584.0
<i>Sebastes helvomiculatus</i>	0.0	0.0	0.0	11.2	169.0	0.0	21.1	144.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	6.0	288.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	972.3	0.0	870.1	0.0	2028.2	0.0	210.5	576.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	11.2	0.0	0.0	9.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	62.1	0.0	0.0	0.0	3.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	11.2	0.0	0.0	3.0	0.0
<i>Eopsetta jordani</i>	0.0	194.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	33.7	0.0	0.0	12.0	0.0
<i>Raja rhina</i>	0.0	0.0	62.1	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	972.3	388.9	994.4	78.6	2197.2	0.0	330.8	2880.0

Sample	769	770	771	772	773	774	775	776
Label	5686_3	5687_1	5687_2	5687_3	5687_4	5687_5	5687_6	5687_7
Delta Dive	5686	5687	5687	5687	5687	5687	5687	5687
Patch	3	1	2	3	4	5	6	7
Start Time	0:33:24	0:00:00	0:00:10	0:00:37	0:02:58	0:03:26	0:05:54	0:06:45
End Time	1:01:36	0:00:10	0:00:37	0:02:58	0:03:26	0:05:54	0:06:45	0:06:58
Length (m)	1132.0	5.9	16.0	83.8	16.6	87.9	30.3	7.7
Area (m <sup>2</sup> )	2865.9	15.7	42.3	220.8	43.8	231.7	79.9	20.4
BOTTOM	SP	SP	B	SP	B1	SP	B1	PS
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	237.3	0.0	0.0	45.3	0.0	0.0	0.0	491.3
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	43.2	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1458.5	0.0	13483.4	3034.9	8439.8	302.1	3256.1	0.0
Finger sponge	62.8	0.0	0.0	0.0	0.0	0.0	250.5	0.0
Cloud sponge	596.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	3.5	0.0	236.6	45.3	228.1	0.0	375.7	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	236.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	62.8	0.0	4257.9	0.0	3421.5	0.0	4508.4	1473.9
<i>Ophiodon elongatus</i>	3.5	0.0	0.0	45.3	0.0	86.3	0.0	0.0
<i>Hexagrammos</i> spp	3.5	0.0	0.0	45.3	0.0	43.2	0.0	0.0
<i>Hippoglossus stenolepis</i>	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	7.0	0.0	0.0	0.0	0.0	86.3	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	94.2	0.0	4731.0	135.9	3649.6	215.8	4884.1	1473.9

Sample	777	778	779	780	781	782	783	784
Label	5687_8	5687_9	5687_10	5687_11	5687_12	5687_13	5687_14	5687_15
Delta Dive	5687	5687	5687	5687	5687	5687	5687	5687
Patch	8	9	10	11	12	13	14	15
Start Time	0:06:58	0:07:26	0:07:48	0:08:46	0:09:06	0:09:31	0:12:40	0:18:30
End Time	0:07:26	0:07:48	0:08:46	0:09:06	0:09:31	0:12:40	0:18:30	0:19:20
Length (m)	16.6	13.1	34.5	11.9	14.9	112.3	207.9	29.7
Area (m <sup>2</sup> )	43.8	34.4	90.8	31.3	39.1	295.9	548.0	78.3
BOTTOM	B1	SP	B	SP	B1	SP	SM	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	36.5	0.0
<i>Virgularia</i> sp	0.0	0.0	110.1	0.0	255.5	0.0	36.5	127.7
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	290.3	110.1	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	2052.9	0.0	3193.4	638.7	2554.8	67.6	36.5	383.2
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	255.5
Cloud sponge	0.0	0.0	0.0	0.0	0.0	12030.3	0.0	1277.4
Vase sponge	0.0	0.0	0.0	0.0	0.0	33.8	0.0	127.7
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	456.2	0.0	110.1	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	228.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	33.8	73.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2509.1	290.3	5505.9	2554.8	2554.8	844.8	0.0	511.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	33.8	18.2	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	18.2	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3193.4	290.3	5616.0	2554.8	2554.8	912.4	109.5	511.0

Sample	785	786	787	788	789	790	791	792
Label	5687_16	5687_17	5687_18	5687_19	5687_20	5687_21	5687_22	5687_23
Delta Dive	5687	5687	5687	5687	5687	5687	5687	5687
Patch	16	17	18	19	20	21	22	23
Start Time	0:19:20	0:20:20	0:21:14	0:21:50	0:24:30	0:30:10	0:32:07	0:32:38
End Time	0:20:20	0:21:14	0:21:50	0:24:30	0:30:10	0:32:07	0:32:38	0:32:57
Length (m)	35.6	32.1	21.4	95.0	202.0	69.5	18.4	11.3
Area (m <sup>2</sup> )	93.9	84.5	56.4	250.5	532.3	183.2	48.5	29.7
BOTTOM	SM	SM	SP	SM	SP	SM	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	354.8	0.0	159.7	75.1	54.6	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	18.8	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	212.9	0.0	0.0	0.0	338.1	109.2	0.0	3361.5
Finger sponge	212.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	2022.5	118.3	0.0	79.8	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	39.9	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	336.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	118.3	354.8	79.8	18.8	0.0	206.0	336.2
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	319.3	0.0	0.0	0.0	75.1	0.0	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	37.6	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	106.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	118.3	0.0	39.9	18.8	163.8	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	425.8	236.6	354.8	119.8	150.3	163.8	206.0	672.3

Sample	793	794	795	796	797	798	799	800
Label	5687_24	5687_25	5687_26	5687_27	5687_28	5687_29	5687_30	5687_31
Delta Dive	5687	5687	5687	5687	5687	5687	5687	5687
Patch	24	25	26	27	28	29	30	31
Start Time	0:32:57	0:33:26	0:34:27	0:36:01	0:36:38	0:38:00	0:38:20	0:45:08
End Time	0:33:26	0:34:27	0:36:01	0:36:38	0:38:00	0:38:20	0:45:08	0:45:18
Length (m)	17.2	36.2	55.8	22.0	48.7	11.9	242.4	5.9
Area (m <sup>2</sup> )	45.4	95.5	147.2	57.9	128.4	31.3	638.8	15.7
BOTTOM	SM	B1	SP	B1	SM	SP	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	67.9	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	6491.6	475.6	172.6	155.8	0.0	31.3	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	104.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	523.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	440.5	209.4	67.9	0.0	233.7	0.0	47.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	104.7	2446.0	0.0	0.0	319.3	15.7	638.7
<i>Ophiodon elongatus</i>	0.0	104.7	0.0	0.0	0.0	0.0	62.6	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	104.7	67.9	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	220.2	0.0	0.0	0.0	0.0	0.0	31.3	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	660.7	1151.7	2581.9	0.0	233.7	319.3	172.2	638.7

Sample	801	802	803	804	805	806	807	808
Label	5687_32	5687_33	5687_34	5687_35	5687_36	5687_37	5687_38	5687_39
Delta Dive	5687	5687	5687	5687	5687	5687	5687	5687
Patch	32	33	34	35	36	37	38	39
Start Time	0:45:18	0:45:29	0:45:58	0:46:30	0:46:58	0:47:15	0:47:31	0:48:20
End Time	0:45:29	0:45:58	0:46:30	0:46:58	0:47:15	0:47:31	0:48:20	0:48:52
Length (m)	6.5	17.2	19.0	16.6	10.1	9.5	29.1	19.0
Area (m <sup>2</sup> )	17.2	45.4	50.1	43.8	26.6	25.1	76.7	50.1
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	228.1	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	220.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	228.1	0.0	399.2	0.0	2395.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	440.5	0.0	228.1	0.0	0.0	0.0	199.6
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	220.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	2422.6	399.2	2965.3	0.0	4790.2	651.7	598.8
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	3083.3	399.2	3193.4	0.0	4790.2	651.7	798.4

Sample	809	810	811	812	813	814	815	816
Label	5687_40	5687_41	5687_42	5687_43	5687_44	5687_45	5687_46	5687_47
Delta Dive	5687	5687	5687	5687	5687	5687	5687	5687
Patch	40	41	42	43	44	45	46	47
Start Time	0:48:52	0:49:27	0:54:55	0:55:46	0:56:47	0:56:57	0:57:20	0:57:30
End Time	0:49:27	0:54:55	0:55:46	0:56:47	0:56:57	0:57:20	0:57:30	0:58:08
Length (m)	20.8	194.8	30.3	36.2	5.9	13.7	5.9	22.6
Area (m <sup>2</sup> )	54.8	513.6	79.9	95.5	15.7	36.0	15.7	59.5
BOTTOM	SP	B1	SP	B1	SP	B1	SP	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	277.7	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	6601.1	0.0	1570.5	638.7	4443.0	638.7	3361.5
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	19.5	0.0	0.0	0.0	277.7	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	331.0	0.0	104.7	0.0	833.1	0.0	336.2
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	5588.5	626.2	0.0	0.0	2221.5	7025.6	8908.0
<i>Ophiodon elongatus</i>	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	277.7	0.0	168.1
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	6036.4	626.2	104.7	0.0	3332.3	7025.6	9412.2

Sample	817	818	819	820	821	822	823	824
Label	5687_48	5687_49	5687_50	5687_51	5687_52	5688_1	5688_2	5688_3
Delta Dive	5687	5687	5687	5687	5687	5688	5688	5688
Patch	48	49	50	51	52	1	2	3
Start Time	0:58:08	0:59:12	0:59:28	1:00:05	1:00:46	0:00:00	0:02:53	0:03:26
End Time	0:59:12	0:59:28	1:00:05	1:00:46	1:01:32	0:02:53	0:03:26	0:04:25
Length (m)	38.0	9.5	22.0	24.4	27.3	100.4	19.2	34.2
Area (m <sup>2</sup> )	100.2	25.1	57.9	64.2	72.0	261.6	49.9	89.2
BOTTOM	SP	B	SP	B1	SP	SP	B1	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	38.2	200.4	112.1
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	38.2	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florumetra serratissima</i>	0.0	12374.6	172.6	3271.3	138.8	114.7	400.7	112.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	38.2	0.0	112.1
Cloud sponge	0.0	0.0	0.0	0.0	138.8	38.2	601.1	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	76.4	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alboscapulus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	798.4	0.0	0.0	555.4	993.7	3406.3	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	172.6	0.0	0.0	38.2	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	38.2	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	798.4	172.6	0.0	555.4	1146.6	3406.3	0.0



Sample	825	826	827	828	829	830	831	832
Label	5688_4	5688_5	5688_6	5688_7	5688_8	5688_9	5688_10	5688_11
Delta Dive	5688	5688	5688	5688	5688	5688	5688	5688
Patch	4	5	6	7	8	9	10	11
Start Time	0:04:25	0:04:38	0:16:43	0:17:31	0:17:43	0:18:11	0:22:26	0:30:20
End Time	0:04:38	0:16:43	0:17:31	0:17:43	0:18:11	0:22:26	0:30:20	0:30:50
Length (m)	7.5	420.8	27.9	7.0	16.3	148.0	275.1	17.4
Area (m <sup>2</sup> )	19.7	1096.5	72.6	18.1	42.3	385.7	716.9	45.4
BOTTOM	B1	SP	B	SP	B1	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	18.2	0.0	0.0	236.2	77.8	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	18.2	0.0	551.0	0.0	51.9	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	508.6	383.1	11295.8	0.0	8501.4	5626.9	20004.0	2424.5
Finger sponge	508.6	63.8	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	1322.4	0.0	0.0	0.0	77.8	0.0	0.0
Vase sponge	0.0	54.7	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	27.9	0.0
<i>Sebastes pinniger</i>	0.0	18.2	0.0	0.0	0.0	0.0	0.0	220.4
<i>Sebastes helvomaculatus</i>	0.0	18.2	0.0	0.0	472.3	51.9	265.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	13.9	220.4
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	127.7	0.0	0.0	0.0	0.0	13.9	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	2479.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	328.3	1102.0	0.0	0.0	777.9	6919.1	1763.3
<i>Ophiodon elongatus</i>	0.0	36.5	0.0	0.0	0.0	0.0	13.9	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	25.9	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	82.1	137.8	551.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	611.1	3719.4	551.0	472.3	855.7	7267.8	2204.1

Sample	833	834	835	836	837	838	839	840
Label	5688_12	5688_13	5688_14	5688_15	5688_16	5688_17	5688_18	5688_19
Delta Dive	5688	5688	5688	5688	5688	5688	5688	5688
Patch	12	13	14	15	16	17	18	19
Start Time	0:30:50	0:31:50	0:33:40	0:34:00	0:34:29	0:36:30	0:37:25	0:38:00
End Time	0:31:50	0:33:40	0:34:00	0:34:29	0:36:30	0:37:25	0:38:00	0:40:48
Length (m)	34.8	63.8	11.6	16.8	70.2	31.9	20.3	97.5
Area (m <sup>2</sup> )	90.7	166.4	30.2	43.9	183.0	83.2	52.9	254.1
BOTTOM	B1	SP	B1	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	60.1	0.0	0.0	0.0	0.0	0.0	393.6
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	60.1	0.0	0.0	54.6	0.0	188.9	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	11571.4	2284.2	5289.8	0.0	6065.7	240.4	3022.7	865.9
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	110.2	0.0	0.0	0.0	0.0	961.8	0.0	118.1
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	54.6	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	109.3	120.2	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	60.1	330.6	0.0	218.6	0.0	566.8	39.4
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	110.2	0.0	0.0	0.0	0.0	0.0	0.0	39.4
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	228.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3306.1	4027.4	661.2	0.0	874.3	1442.7	755.7	1338.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	228.0	54.6	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	120.2	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	228.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	110.2	0.0	0.0	456.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3526.5	4087.5	991.8	1140.0	1311.5	1683.1	1322.4	1416.9

Sample	841	842	843	844	845	846	847	848
Label	5688_20	5688_21	5688_22	5688_23	5688_24	5688_25	5688_26	5688_27
Delta Dive	5688	5688	5688	5688	5688	5688	5688	5688
Patch	20	21	22	23	24	25	26	27
Start Time	0:40:48	0:43:08	0:44:40	0:46:15	0:50:20	0:51:20	0:51:54	0:52:17
End Time	0:43:08	0:44:40	0:46:15	0:50:20	0:51:20	0:51:54	0:52:17	0:54:16
Length (m)	81.3	53.4	55.1	142.2	34.8	19.7	13.4	69.1
Area (m <sup>2</sup> )	211.7	139.1	143.7	370.5	90.7	51.4	34.8	180.0
BOTTOM	B	SP	B1	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	94.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	110.2	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	4911.9	1581.2	1670.5	81.0	2314.3	0.0	287.5	0.0
Finger sponge	47.2	0.0	0.0	0.0	0.0	0.0	0.0	111.1
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	236.2	71.9	0.0	0.0	440.8	0.0	287.5	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	54.0	0.0	0.0	0.0	55.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	69.6	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	3636.7	215.6	2366.5	108.0	2314.3	1361.3	4312.3	55.6
<i>Ophiodon elongatus</i>	0.0	71.9	0.0	54.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166.7
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	71.9	0.0	134.9	0.0	0.0	0.0	55.6
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	3872.9	431.2	2436.1	350.9	2755.1	1361.3	4599.8	333.4

Sample	849	850	851	852	853	854	855	856
Label	5688_28	5688_29	5688_30	5688_31	5688_32	5688_33	5689_1	5689_2
Delta Dive	5688	5688	5688	5688	5688	5688	5689	5689
Patch	28	29	30	31	32	33	1	2
Start Time	0:54:16	0:55:46	0:57:39	0:58:05	1:00:48	1:01:12	0:00:00	0:07:24
End Time	0:55:46	0:57:39	0:58:05	1:00:48	1:01:12	1:01:36	0:07:24	0:07:55
Length (m)	52.2	65.6	15.1	94.6	13.9	13.9	257.3	18.0
Area (m <sup>2</sup> )	136.1	170.9	39.3	246.5	36.3	36.3	627.1	43.8
BOTTOM	B	SP	B	SP	B	SP	PS	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	58.5	0.0	40.6	275.5	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	73.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	514.3	0.0	762.9	0.0	0.0	0.0	3093.7	228.4
Finger sponge	146.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	2886.4	5024.8
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	58.5	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	293.9	58.5	254.3	0.0	0.0	0.0	31.9	456.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	514.3	0.0	0.0	40.6	1653.1	0.0	398.7	913.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	40.6	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	81.1	0.0	0.0	47.8	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stoutii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	808.2	117.0	254.3	162.3	1653.1	0.0	510.3	1370.4

Sample	857	858	859	860	861	862	863	864
Label	5689_3	5689_4	5689_5	5689_6	5689_7	5689_8	5689_9	5689_10
Delta Dive	5689	5689	5689	5689	5689	5689	5689	5689
Patch	3	4	5	6	7	8	9	10
Start Time	0:07:55	0:21:16	0:22:03	0:23:08	0:23:30	0:23:40	0:27:26	0:28:06
End Time	0:21:16	0:22:03	0:23:08	0:23:30	0:23:40	0:27:26	0:28:06	0:28:18
Length (m)	464.1	27.2	37.7	12.7	5.8	130.9	23.2	7.0
Area (m <sup>2</sup> )	1131.3	66.4	91.8	31.1	14.1	319.2	56.5	16.9
BOTTOM	SP	B1	SPC	B1	SPC	B1	SPC	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	17.7	0.0	0.0	0.0	0.0	62.7	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	53.0	9038.8	0.0	4183.9	708.0	13221.0	0.0	590.0
Finger sponge	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	875.1	451.9	1416.1	1287.3	5664.3	971.2	708.0	1770.1
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	8.8	0.0	0.0	0.0	0.0	0.0	531.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	17.7	150.6	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	8.8	451.9	0.0	0.0	0.0	94.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	35.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	79.6	4519.4	544.6	1287.3	0.0	4166.8	708.0	590.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	61.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	229.8	5122.0	544.6	1287.3	0.0	4260.8	708.0	590.0

Sample	865	866	867	868	869	870	871	872
Label	5689_11	5689_12	5689_13	5689_14	5689_15	5689_16	5689_17	5689_18
Delta Dive	5689	5689	5689	5689	5689	5689	5689	5689
Patch	11	12	13	14	15	16	17	18
Start Time	0:28:18	0:28:35	0:30:18	0:30:33	0:30:50	0:31:15	0:31:55	0:32:31
End Time	0:28:35	0:30:18	0:30:33	0:30:50	0:31:15	0:31:55	0:32:31	0:36:01
Length (m)	9.8	59.7	8.7	9.8	14.5	23.2	20.9	121.7
Area (m <sup>2</sup> )	24.0	145.5	21.2	24.0	35.3	56.5	50.8	296.6
BOTTOM	SPC	B1	PS	B	SP	B	SP	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	68.7	0.0	0.0	0.0	0.0	0.0	33.7
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	13198.4	7080.4	2499.0	0.0	5310.3	590.0	14228.3
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	1249.5	206.2	944.1	1666.0	849.6	708.0	786.7	1618.4
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	481.2	0.0	416.5	0.0	0.0	0.0	134.9
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	2915.5	4399.5	1888.1	6247.4	1982.5	2832.2	590.0	2663.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	2915.5	4880.7	1888.1	6663.9	1982.5	2832.2	590.0	2798.5

Sample	873	874	875	876	877	878	879	880
Label	5689_19	5689_20	5689_21	5690_1	5690_2	5690_3	5690_4	5690_5
Delta Dive	5689	5689	5689	5690	5690	5690	5690	5690
Patch	19	20	21	1	2	3	4	5
Start Time	0:36:01	0:41:23	0:42:47	0:00:00	0:01:10	0:03:08	0:03:20	0:04:41
End Time	0:41:23	0:42:47	1:01:37	0:01:10	0:03:08	0:03:20	0:04:41	0:08:11
Length (m)	186.6	48.7	654.7	42.4	71.5	7.3	49.1	127.3
Area (m <sup>2</sup> )	454.8	118.6	1596.0	123.3	207.9	21.1	142.7	369.9
BOTTOM	SP	B	SP	SPC	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	1121.4	28237.4	0.0	0.0	2357.3	946.1	3013.6	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	70.1	0.0
Cloud sponge	593.7	590.0	294.5	81.1	48.1	0.0	0.0	27438.2
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	324.4
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.1
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	1419.2	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	70.1	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	22.0	84.3	12.5	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	131.9	2528.7	31.3	81.1	1010.3	0.0	2873.5	1000.2
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	48.1	0.0	70.1	27.0
<i>Hexagrammos</i> spp	0.0	0.0	12.5	0.0	48.1	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	88.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	44.0	0.0	50.1	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0
Total fish	329.8	2613.0	131.6	81.1	1106.5	1419.2	3013.6	1027.2

Sample	881	882	883	884	885	886	887	888
Label	5690_6	5690_7	5690_8	5690_9	5690_10	5690_11	5690_12	5690_13
Delta Dive	5690	5690	5690	5690	5690	5690	5690	5690
Patch	6	7	8	9	10	11	12	13
Start Time	0:08:11	0:10:00	0:10:20	0:12:06	0:12:18	0:12:53	0:14:26	0:16:19
End Time	0:10:00	0:10:20	0:12:06	0:12:18	0:12:53	0:14:26	0:16:19	0:16:34
Length (m)	66.1	12.1	64.3	7.3	21.2	56.4	68.5	9.1
Area (m <sup>2</sup> )	192.0	35.2	186.7	21.1	61.7	163.8	199.1	26.4
BOTTOM	B	SP	B	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	61.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	552.6	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	150.7	0.0
Vase sponge	0.0	283.8	53.6	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	50.2	378.5
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	52.1	0.0	0.0	0.0	0.0	0.0	0.0	378.5
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	989.5	0.0	696.2	1419.2	1784.2	0.0	502.4	0.0
<i>Ophiodon elongatus</i>	104.2	0.0	107.1	0.0	0.0	0.0	0.0	378.5
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	61.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	162.2	61.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1145.8	0.0	803.3	1419.2	1946.4	122.1	552.6	1135.4



Sample	889	890	891	892	893	894	895	896
Label	5690_14	5690_15	5690_16	5690_17	5690_18	5690_19	5690_20	5690_21
Delta Dive	5690	5690	5690	5690	5690	5690	5690	5690
Patch	14	15	16	17	18	19	20	21
Start Time	0:16:34	0:20:00	0:20:19	0:22:22	0:36:16	0:37:40	0:38:44	0:39:39
End Time	0:20:00	0:20:19	0:22:22	0:36:16	0:37:40	0:38:44	0:39:39	0:41:27
Length (m)	124.9	11.5	74.6	505.6	50.9	38.8	33.3	65.5
Area (m <sup>2</sup> )	362.9	33.5	216.7	1469.1	148.0	112.7	96.9	190.2
BOTTOM	B	SP	B	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	55.1	298.8	0.0	47.6	0.0	0.0	0.0	52.6
<i>Gorgonocephalus eucnemis</i>	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	2177.1	0.0	507.7	0.0	10272.4	1596.6	1857.9	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	138.5	11074.7	0.0	0.0	0.0	105.1
Vase sponge	0.0	0.0	0.0	149.7	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	6.8	0.0	88.7	0.0	0.0
<i>Sebastes pinniger</i>	27.6	0.0	46.2	6.8	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	27.6	0.0	92.3	34.0	67.6	177.4	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	440.9	0.0	1107.7	544.5	67.6	532.2	0.0	0.0
<i>Ophiodon elongatus</i>	137.8	0.0	0.0	74.9	67.6	88.7	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	55.1	0.0	46.2	47.6	67.6	177.4	309.6	52.6
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	13.6	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	716.5	0.0	1292.3	762.4	270.3	1064.4	309.6	52.6

Sample	897	898	899	900	901	902	903	904
Label	5690_22	5690_23	5690_24	5690_25	5690_26	5690_27	5690_28	5690_29
Delta Dive	5690	5690	5690	5690	5690	5690	5690	5690
Patch	22	23	24	25	26	27	28	29
Start Time	0:41:27	0:42:18	0:42:54	0:43:34	0:44:05	0:44:35	0:44:50	0:45:33
End Time	0:42:18	0:42:54	0:43:34	0:44:05	0:44:35	0:44:50	0:45:33	0:45:45
Length (m)	30.9	21.8	24.2	18.8	18.2	9.1	26.1	7.3
Area (m <sup>2</sup> )	89.8	63.4	70.5	54.6	52.8	26.4	75.7	21.1
BOTTOM	B	SP	B	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	111.3	0.0	0.0	0.0	0.0	0.0	132.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	556.6	0.0	0.0	0.0	0.0	0.0	0.0	946.1
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	222.6	0.0	0.0	0.0	189.2	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	111.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	111.3	0.0	141.9	0.0	946.1	0.0	132.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	189.2	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	222.6	0.0	0.0	0.0	3027.7	756.9	1848.3	1892.3
<i>Ophiodon elongatus</i>	111.3	315.4	425.8	0.0	189.2	0.0	396.1	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	157.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	111.3	0.0	0.0	0.0	0.0	0.0	132.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	667.9	473.1	567.7	0.0	4352.3	756.9	2508.4	1892.3

Sample	905	906	907	908	909	910	911	912
Label	5690_30	5690_31	5690_32	5690_33	5690_34	5690_35	5690_36	5690_37
Delta Dive	5690	5690	5690	5690	5690	5690	5690	5690
Patch	30	31	32	33	34	35	36	37
Start Time	0:45:45	0:46:53	0:48:13	0:49:00	0:49:13	0:50:13	0:50:30	0:52:04
End Time	0:46:53	0:48:13	0:49:00	0:49:13	0:50:13	0:50:30	0:52:04	0:54:00
Length (m)	41.2	48.5	28.5	7.9	36.4	10.3	57.0	70.3
Area (m <sup>2</sup> )	119.8	140.9	82.8	22.9	105.7	29.9	165.6	204.3
BOTTOM	B	SP	B	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	83.5	0.0	120.8	0.0	189.2	0.0	60.4	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	94.6	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	141.9	120.8	0.0	3027.7	3005.4	8153.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	6173.6	0.0	0.0	0.0	14025.2	60.4	0.0
Vase sponge	0.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	141.9	0.0	0.0	0.0	0.0	0.0	97.9
<i>Sebastes helvomaculatus</i>	83.5	0.0	0.0	0.0	283.8	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	417.4	709.6	603.9	0.0	756.9	0.0	422.7	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	94.6	0.0	0.0	97.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	94.6	0.0	0.0	48.9
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	667.9	851.5	603.9	0.0	1230.0	0.0	422.7	244.7

Sample	913	914	915	916	917	918	919	920
Label	5690_38	5690_39	5690_40	5690_41	5690_42	5690_43	5690_44	5690_45
Delta Dive	5690	5690	5690	5690	5690	5690	5690	5690
Patch	38	39	40	41	42	43	44	45
Start Time	0:54:00	0:54:29	0:54:57	0:55:46	0:56:12	0:56:48	0:58:58	1:01:27
End Time	0:54:29	0:54:57	0:55:46	0:56:12	0:56:48	0:58:58	1:01:27	1:01:38
Length (m)	17.6	17.0	29.7	15.8	21.8	78.8	90.3	6.7
Area (m <sup>2</sup> )	51.1	49.3	86.3	45.8	63.4	229.0	262.5	19.4
BOTTOM	B	SP	B	SP	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	157.7	0.0	38.1	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	231.7	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	2349.0	0.0	1390.3	0.0	1892.3	0.0	6057.9	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	157.7	87.3	190.5	16514.5
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	115.9	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	115.9	0.0	0.0	0.0	38.1	0.0
<i>Sebastes helvomaculatus</i>	195.8	0.0	347.6	0.0	157.7	0.0	76.2	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	218.3	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	783.0	0.0	1737.8	3493.5	4415.3	0.0	1104.9	3612.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	174.7	38.1	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	38.1	0.0
<i>Hippoglossus stenolepis</i>	0.0	202.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	202.7	0.0	0.0	0.0	43.7	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	978.8	405.5	2317.1	3711.8	4573.0	218.3	1295.4	3612.6

Sample	921	922	923	924	925	926	927	928
Label	5691_1	5691_2	5691_3	5691_4	5691_5	5691_6	5691_7	5691_8
Delta Dive	5691	5691	5691	5691	5691	5691	5691	5691
Patch	1	2	3	4	5	6	7	8
Start Time	0:00:00	0:09:34	0:11:26	0:12:22	0:15:31	0:18:30	0:19:20	0:19:32
End Time	0:09:34	0:11:26	0:12:22	0:15:31	0:18:30	0:19:20	0:19:32	0:20:20
Length (m)	274.8	53.6	26.8	90.5	85.7	23.9	5.7	23.0
Area (m <sup>2</sup> )	741.0	144.6	72.3	244.0	231.1	64.6	15.5	62.0
BOTTOM	SM	B	SM	B	SM	B	SP	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	138.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	458.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	67.5	0.0	0.0	41.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	69.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	13.5	138.3	0.0	41.0	0.0	154.9	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	69.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	86.5	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	337.4	4910.3	1383.2	737.7	0.0	619.7	0.0	0.0
<i>Ophiodon elongatus</i>	27.0	207.5	138.3	41.0	0.0	0.0	0.0	322.7
<i>Hexagrammos</i> spp	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	86.5	0.0	0.0	0.0
<i>Eopsetta jordani</i>	13.5	0.0	0.0	0.0	43.3	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	302.9	0.0	0.0	0.0
<i>Raja rhina</i>	13.5	0.0	0.0	41.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	458.8	5394.5	1521.5	860.7	519.3	774.6	0.0	322.7

Sample	929	930	931	932	933	934	935	936
Label	5691_9	5691_10	5691_11	5691_12	5691_13	5691_14	5691_15	5691_16
Delta Dive	5691	5691	5691	5691	5691	5691	5691	5691
Patch	9	10	11	12	13	14	15	16
Start Time	0:20:20	0:20:35	0:22:34	0:33:00	0:33:10	0:33:20	0:37:11	0:38:10
End Time	0:20:35	0:22:34	0:33:00	0:33:10	0:33:20	0:37:11	0:38:10	0:46:59
Length (m)	7.2	57.0	299.7	4.8	4.8	110.6	28.2	253.3
Area (m <sup>2</sup> )	19.4	153.6	808.2	12.9	12.9	298.2	76.2	682.9
BOTTOM	SP	B	SM	SP	SM	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	259.8	0.0	0.0	33.5	0.0	14.6
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	67.1	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	33.5	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	33.5	0.0	43.9
Vase sponge	0.0	130.2	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	130.2	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	1432.0	0.0	0.0	0.0	0.0	0.0	14.6
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	65.1	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	33.5	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	24.7	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	74.2	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	130.2	148.5	0.0	774.6	100.6	0.0	29.3
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	33.5	131.3	14.6
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	1757.5	259.8	0.0	774.6	167.7	131.3	73.2

Sample	937	938	939	940	941	942	943	944
Label	5691_17	5691_18	5691_19	5691_20	5691_21	5691_22	5691_23	5691_24
Delta Dive	5691	5691	5691	5691	5691	5691	5691	5691
Patch	17	18	19	20	21	22	23	24
Start Time	0:46:59	0:48:25	0:49:39	0:50:44	0:51:06	0:51:42	0:54:20	0:54:46
End Time	0:48:25	0:49:39	0:50:44	0:51:06	0:51:42	0:54:20	0:54:46	0:59:14
Length (m)	41.2	35.4	31.1	10.5	17.2	75.6	12.4	128.3
Area (m <sup>2</sup> )	111.0	95.5	83.9	28.4	46.5	204.0	33.6	346.0
BOTTOM	B	SP	B	SM	B	SP	B	SP
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.9
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	1787.5	57.8
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	297.9	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	90.1	0.0	0.0	0.0	645.5	0.0	297.9	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	119.2	0.0	215.2	49.0	0.0	28.9
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	549.1
<i>Ophiodon elongatus</i>	90.1	0.0	0.0	0.0	0.0	0.0	0.0	28.9
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	104.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	119.2	0.0	0.0	0.0	0.0	28.9
<i>Pleuronectiformes</i>	0.0	104.7	0.0	0.0	430.3	98.0	0.0	28.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	180.1	209.3	238.3	0.0	1291.0	147.1	297.9	664.8

Sample	945	946	947	948	949	950	951	952
Label	5691_25	5691_26	5691_27	5691_28	5692_1	5692_2	5692_3	5692_4
Delta Dive	5691	5691	5691	5691	5692	5692	5692	5692
Patch	25	26	27	28	1	2	3	4
Start Time	0:59:14	1:00:19	1:00:35	1:01:16	0:00:00	0:03:23	0:03:44	0:05:26
End Time	1:00:19	1:00:35	1:01:16	1:01:35	0:03:23	0:03:44	0:05:26	0:06:06
Length (m)	31.1	7.7	19.6	9.1	104.6	10.8	52.6	20.6
Area (m <sup>2</sup> )	83.9	20.7	52.9	24.5	267.5	27.7	134.4	52.7
BOTTOM	B	SP	B	SP	B	SM	B	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	188.9	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	74.8	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	112.2	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	37.4	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	188.9	0.0	149.5	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	0.0	0.0	0.0	815.4	2205.7	0.0	74.4	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	37.4	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	189.7
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	0.0	0.0	188.9	815.4	2430.0	0.0	74.4	189.7



Sample	953	954	955	956	957	958	959	960
Label	5692_5	5692_6	5692_7	5692_8	5692_9	5692_10	5692_11	5692_12
Delta Dive	5692	5692	5692	5692	5692	5692	5692	5692
Patch	5	6	7	8	9	10	11	12
Start Time	0:06:06	0:06:59	0:08:57	0:09:48	0:11:23	0:12:36	0:12:58	0:13:40
End Time	0:06:59	0:08:57	0:09:48	0:11:23	0:12:36	0:12:58	0:13:40	0:16:43
Length (m)	27.3	60.8	26.3	49.0	37.6	11.3	21.6	94.3
Area (m <sup>2</sup> )	69.8	155.5	67.2	125.2	96.2	29.0	55.3	241.1
BOTTOM	B	SM	B	SP	B	SM	B	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	104.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	104.0	0.0	0.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.5
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	1975.2	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1145.5	0.0	5059.4	319.5	2183.2	2414.7	361.4	124.4
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	159.8	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	0.0	128.6	0.0	0.0	0.0	345.0	0.0	124.4
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.5
<i>Bathyraja kincaidii</i>	0.0	64.3	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus collicii</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1145.5	192.9	5059.4	479.3	4262.4	2759.7	361.4	331.8

Sample	961	962	963	964	965	966	967	968
Label	5692_13	5692_14	5692_15	5692_16	5692_17	5692_18	5692_19	5692_20
Delta Dive	5692	5692	5692	5692	5692	5692	5692	5692
Patch	13	14	15	16	17	18	19	20
Start Time	0:16:43	0:18:38	0:21:20	0:22:04	0:22:50	0:23:29	0:23:56	0:24:10
End Time	0:18:38	0:21:20	0:22:04	0:22:50	0:23:29	0:23:56	0:24:10	0:24:59
Length (m)	59.3	83.5	22.7	23.7	20.1	13.9	7.2	25.3
Area (m <sup>2</sup> )	151.5	213.5	58.0	60.6	51.4	35.6	18.4	64.6
BOTTOM	B	SP	SM	SP	SM	B	SM	B
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	46.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	655.8	8279.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	66.0	4497.2	16040.6	6104.3	583.8	0.0	0.0	774.4
Vase sponge	0.0	0.0	172.5	0.0	778.4	0.0	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.9
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	0.0	0.0	0.0	0.0	562.2	0.0	309.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	165.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	93.7	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	1253.9	2482.9	0.0	0.0	0.0	3654.0	0.0	0.0
<i>Ophiodon elongatus</i>	0.0	0.0	0.0	0.0	0.0	281.1	542.1	309.8
<i>Hexagrammos</i> spp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	66.0	187.4	0.0	0.0	194.6	0.0	0.0	154.9
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	46.8	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	1319.8	2810.8	0.0	165.0	194.6	4497.2	542.1	774.4

Sample	969	970	971	972	973	974	975	976
Label	5692_21	5692_22	5692_23	5692_24	5692_25	5692_26	5692_27	5692_28
Delta Dive	5692	5692	5692	5692	5692	5692	5692	5692
Patch	21	22	23	24	25	26	27	28
Start Time	0:24:59	0:30:40	0:31:40	0:32:33	0:39:28	0:39:50	0:42:29	0:44:24
End Time	0:30:40	0:31:40	0:32:33	0:39:28	0:39:50	0:42:29	0:44:24	0:44:45
Length (m)	175.7	30.9	27.3	213.9	11.3	81.9	59.3	10.8
Area (m <sup>2</sup> )	449.3	79.1	69.8	546.8	29.0	209.5	151.5	27.7
BOTTOM	SM	B1	SM	SP	B1	SP	B1	SM
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florometra serratissima</i>	0.0	0.0	0.0	0.0	0.0	143.2	725.9	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	734.4	0.0	13603.1	1572.7	0.0	6014.0	1649.8	3613.9
Vase sponge	89.0	0.0	716.0	54.9	0.0	190.9	198.0	0.0
Cup sponge	0.0	0.0	0.0	18.3	0.0	47.7	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	22.3	0.0	0.0	0.0	0.0	47.7	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	22.3	126.5	0.0	18.3	0.0	0.0	198.0	0.0
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	22.3	0.0	0.0	18.3	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	467.4	1011.9	0.0	36.6	0.0	47.7	725.9	2168.3
<i>Ophiodon elongatus</i>	44.5	0.0	143.2	18.3	0.0	47.7	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	143.2	36.6	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	47.7	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	47.7	0.0	0.0
<i>Pleuronectiformes</i>	66.8	0.0	143.2	36.6	0.0	95.5	0.0	722.8
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliciei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	667.7	1138.4	429.6	164.6	0.0	334.1	923.9	2891.1

Sample	977	978	979	980	981	982	983	984
Label	5692_29	5692_30	5692_31	5692_32	5692_33	5692_34	5692_35	5692_36
Delta Dive	5692	5692	5692	5692	5692	5692	5692	5692
Patch	29	30	31	32	33	34	35	36
Start Time	0:44:45	0:49:03	0:50:25	0:56:50	0:57:49	0:58:11	1:00:20	1:00:43
End Time	0:49:03	0:50:25	0:56:50	0:57:49	0:58:11	1:00:20	1:00:43	1:01:19
Length (m)	132.9	42.3	198.4	30.4	11.3	66.5	11.9	18.6
Area (m <sup>2</sup> )	340.0	108.0	507.3	77.7	29.0	170.0	30.3	47.4
BOTTOM	SP	B1	SP	B1	SM	B1	SM	B1
<i>Ptilosarcus gurneyi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Virgularia</i> sp	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Balticina septentrionalis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Anemone	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gorgonocephalus eucnemis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Florumetra serratissima</i>	29.4	92.6	0.0	0.0	0.0	0.0	0.0	0.0
Finger sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cloud sponge	1382.5	555.3	98.6	0.0	0.0	0.0	0.0	0.0
Vase sponge	0.0	0.0	19.7	0.0	0.0	58.8	0.0	0.0
Cup sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Basket sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sheet sponge	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes ruberrimus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes pinniger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes helvomaculatus</i>	0.0	185.1	0.0	128.6	0.0	117.7	0.0	210.8
<i>Sebastes nigrocinctus</i>	0.0	0.0	0.0	128.6	0.0	0.0	0.0	0.0
<i>Sebastes flavidus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes zacentrus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes alutus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes babcocki</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes entomelas</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes elongatus</i>	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes maliger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes proriger</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes brevispinis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastolobus alascanus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes chlorostictus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes paucispinus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Sebastes</i> spp	264.7	1295.7	216.8	128.6	0.0	294.2	4949.4	0.0
<i>Ophiodon elongatus</i>	88.2	0.0	39.4	128.6	0.0	0.0	0.0	0.0
<i>Hexagrammos</i> spp	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0
<i>Hippoglossus stenolepis</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Atheresthes stomias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Microstomus pacificus</i>	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0
<i>Eopsetta jordani</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Pleuronectiformes</i>	29.4	92.6	39.4	0.0	345.0	0.0	0.0	0.0
<i>Raja rhina</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Raja binoculata</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Bathyraja kincaidi</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Hydrolagus colliei</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Squalus acanthias</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Gadus macrocephalus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Theragra chalcogramma</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Clupea harengus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Zaprora silenus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anarrhichthys ocellatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Eptatretus stouti</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Anoplopoma fimbria</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total fish	411.8	1573.4	335.1	514.5	345.0	411.8	4949.4	210.8

Sample	Average	Std Dev.	CV	Minimum	Maximum
Label					
Delta Dive					
Patch					
Start Time					
End Time					
Length (m)	110.95	281.507	2.537	3.9	2678.5
Area (m <sup>2</sup> )	280.62	698.368	2.489	10.1	6892.2
BOTTOM					
<i>Ptilosarcus gurneyi</i>	0.05	1.228	24.728	0.0	36.5
<i>Virgularia</i> sp	38.51	230.595	5.988	0.0	4034.3
<i>Balticina septentrionalis</i>	0.19	2.642	13.634	0.0	47.6
Anemone	12.53	69.564	5.550	0.0	1245.5
<i>Gorgonocephalus eucnemis</i>	0.62	11.109	18.030	0.0	241.2
<i>Florometra serratissima</i>	3035.34	6284.380	2.070	0.0	43513.8
Finger sponge	22.17	194.818	8.786	0.0	3704.1
Cloud sponge	254.43	1514.596	5.953	0.0	27438.2
Vase sponge	114.37	733.568	6.414	0.0	10480.8
Cup sponge	0.58	7.651	13.094	0.0	154.9
Basket sponge	1.23	22.266	18.033	0.0	531.0
Sheet sponge	3.55	44.691	12.604	0.0	866.1
<i>Sebastes ruberrimus</i>	2.54	18.985	7.472	0.0	378.5
<i>Sebastes pinniger</i>	29.63	187.248	6.320	0.0	4052.8
<i>Sebastes helvomaculatus</i>	114.88	219.528	1.911	0.0	2119.5
<i>Sebastes nigrocinctus</i>	2.15	20.651	9.613	0.0	340.5
<i>Sebastes flavidus</i>	41.40	583.985	14.106	0.0	15032.9
<i>Sebastes zacentrus</i>	5.49	35.919	6.538	0.0	551.8
<i>Sebastes alutus</i>	0.10	3.143	31.369	0.0	98.6
<i>Sebastes babcocki</i>	0.01	0.242	31.369	0.0	7.6
<i>Sebastes entomelas</i>	0.02	0.379	25.185	0.0	11.4
<i>Sebastes elongatus</i>	48.96	138.630	2.832	0.0	2609.2
<i>Sebastes maliger</i>	0.01	0.232	23.688	0.0	6.6
<i>Sebastes proriger</i>	13.27	117.838	8.883	0.0	2479.6
<i>Sebastes brevispinis</i>	1.16	15.778	13.582	0.0	358.8
<i>Sebastolobus alascanus</i>	0.10	3.143	31.369	0.0	98.6
<i>Sebastes chlorostictus</i>	0.01	0.217	31.369	0.0	6.8
<i>Sebastes paucispinus</i>	0.03	0.976	31.369	0.0	30.6
<i>Sebastes</i> spp	1325.28	2297.690	1.734	0.0	35113.9
<i>Ophiodon elongatus</i>	27.42	112.638	4.108	0.0	2113.8
<i>Hexagrammos</i> spp	2.06	14.994	7.294	0.0	231.1
<i>Hippoglossus stenolepis</i>	5.32	35.314	6.637	0.0	488.1
<i>Atheresthes stomias</i>	0.18	4.492	24.692	0.0	139.4
<i>Microstomus pacificus</i>	7.40	34.772	4.702	0.0	359.5
<i>Eopsetta jordani</i>	2.61	16.051	6.139	0.0	299.1
<i>Pleuronectiformes</i>	70.33	166.604	2.369	0.0	1848.4
<i>Raja rhina</i>	3.13	30.134	9.634	0.0	706.5
<i>Raja binoculata</i>	1.35	13.943	10.292	0.0	251.6
<i>Bathyraja kincaidi</i>	1.18	9.351	7.955	0.0	143.3
<i>Hydrolagus colliei</i>	8.22	38.224	4.648	0.0	456.0
<i>Squalus acanthias</i>	0.11	3.107	28.123	0.0	97.2
<i>Gadus macrocephalus</i>	2.58	22.848	8.840	0.0	573.3
<i>Theragra chalcogramma</i>	0.30	9.295	31.369	0.0	291.6
<i>Clupea harengus</i>	8.19	142.847	17.437	0.0	3740.5
<i>Zaprora silenus</i>	0.02	0.542	31.369	0.0	17.0
<i>Anarrhichthys ocellatus</i>	0.09	2.870	30.370	0.0	90.0
<i>Eptatretus stouti</i>	0.39	5.398	13.751	0.0	114.0
<i>Anoplopoma fimbria</i>	0.01	0.200	31.369	0.0	6.3
Total fish	1725.91	2464.070	1.428	0.0	35662.6

**APPENDIX F: TRANSECT AND WITHIN-TRANSECT SCALE DATA  
SUMMARIZED BY BOTTOM TYPE**

Table F.1. Transect-scale data summarized by bottom type. For each bottom type, the total number of transects of that bottom type (count), average depth in m, average area in m<sup>2</sup>, and standard deviation of the average area are listed. The total number of individuals (count), average density (in numbers per hectare), standard deviation (Std Dev.), and coefficient of variation (CV) are listed for each invertebrate and fish species by bottom type.

Factor	Sand-mud				Sand-pebble			
	Count	Depth	Area	Std Dev.	Count	Depth	Area	Std Dev.
Description	8	132.75	5218.87	1088.26	12	124.33	5416.99	1132.17
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		3	0.46	1.12	2.42
<i>Virgularia</i> sp	3018	876.84	1482.03	1.69	135	24.26	30.43	1.25
<i>Balticina septentrionalis</i>	9	3.48	7.43	2.13	3	0.44	1.08	2.47
Anemone	11	2.42	4.22	1.74	60	8.70	10.34	1.19
<i>Gorgonocephalus eucnemis</i>	2	0.40	0.74	1.85	5	0.51	1.77	3.46
<i>Florometra serratissima</i>	1414	311.50	713.78	2.29	16876	2425.90	3612.67	1.49
Finger sponge	2	0.42	0.79	1.85	1517	173.19	585.23	3.38
Cloud sponge	907	225.18	487.82	2.17	3573	473.95	1233.46	2.60
Vase sponge	147	11.63	21.82	1.88	1210	22.10	29.20	1.32
Cup sponge	3	0.78	2.19	2.83	6	0.83	2.01	2.41
Basket sponge	0	0.00	0.00		1	0.13	0.44	3.46
Sheet sponge	1	0.26	0.73	2.83	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	6	1.32	1.84	1.40	15	2.27	2.94	1.30
<i>Sebastes pinniger</i>	46	9.49	12.05	1.27	84	11.86	14.74	1.24
<i>Sebastes helvomaculatus</i>	163	35.75	39.40	1.10	543	80.12	77.52	0.97
<i>Sebastes nigrocinctus</i>	5	1.10	0.92	0.84	8	1.40	2.38	1.70
<i>Sebastes flavidus</i>	205	48.00	86.86	1.81	1	0.14	0.48	3.46
<i>Sebastes zacentrus</i>	20	4.48	11.25	2.51	37	4.64	10.83	2.33
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	165	37.60	33.86	0.90	302	44.29	41.65	0.94
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	30	7.47	14.82	1.98	95	12.12	23.18	1.91
<i>Sebastes brevispinis</i>	2	0.41	1.15	2.83	5	0.95	2.31	2.45
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		1	0.13	0.44	3.46
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	1692	384.03	483.53	1.26	9255	1329.43	1350.47	1.02
<i>Ophiodon elongatus</i>	53	11.97	14.53	1.21	195	34.13	58.34	1.71
<i>Hexagrammos</i> spp	7	1.68	2.95	1.76	15	2.20	2.69	1.22
<i>Hippoglossus stenolepis</i>	10	2.18	3.65	1.67	33	4.51	9.04	2.00
<i>Atheresthes stomias</i>	5	1.28	3.62	2.83	8	1.46	5.06	3.46
<i>Microstomus pacificus</i>	67	20.42	28.50	1.40	66	12.00	20.53	1.71
<i>Eopsetta jordani</i>	28	6.95	5.41	0.78	48	7.92	10.02	1.27
<i>Pleuronectiformes</i>	770	202.28	175.81	0.87	370	61.98	61.56	0.99
<i>Raja rhina</i>	13	3.29	2.71	0.82	15	2.21	2.00	0.91
<i>Raja binoculata</i>	12	2.67	4.72	1.77	3	0.41	1.07	2.60
<i>Bathyraja kincaidi</i>	26	6.14	7.67	1.25	8	1.19	2.07	1.73
<i>Hydrolagus colliei</i>	42	14.39	26.52	1.84	27	4.25	2.96	0.70
<i>Squalus acanthias</i>	29	12.38	34.28	2.77	0	0.00	0.00	
<i>Gadus macrocephalus</i>	10	3.46	7.19	2.08	6	1.04	1.59	1.52
<i>Theragra chalcogramma</i>	84	36.45	103.09	2.83	0	0.00	0.00	
<i>Clupea harengus</i>	1	0.22	0.63	2.83	282	32.02	110.91	3.46
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	2	0.41	1.15	2.83	0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	3493	855.82	513.34	0.60	11422	1652.66	1504.64	0.91

Factor	Pebble-sand				Sand-cobble			
	Count	Depth	Area	Std Dev.	Count	Depth	Area	Std Dev.
Description	20	139.80	5628.22	1276.68	5	155.40	5354.88	1119.62
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	1437	146.21	264.95	1.81	0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	25	2.22	4.01	1.80	13	4.29	6.89	1.61
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		0	0.00	0.00	
<i>Florometra serratissima</i>	36541	2896.28	3702.92	1.28	3	0.98	1.54	1.57
Finger sponge	2936	281.27	643.58	2.29	119	47.94	61.42	1.28
Cloud sponge	4655	377.22	656.55	1.74	1	0.35	0.79	2.24
Vase sponge	17841	689.85	1335.46	1.94	7	0.91	1.30	1.43
Cup sponge	12	0.85	2.68	3.17	0	0.00	0.00	
Basket sponge	11	0.86	2.34	2.70	2	0.56	1.26	2.24
Sheet sponge	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes ruberrimus</i>	19	1.58	2.50	1.59	13	4.28	5.32	1.24
<i>Sebastes pinniger</i>	452	39.47	96.53	2.45	14	4.89	5.49	1.12
<i>Sebastes helvomaculatus</i>	372	32.45	33.13	1.02	317	115.64	67.90	0.59
<i>Sebastes nigrocinctus</i>	4	0.32	1.11	3.43	0	0.00	0.00	
<i>Sebastes flavidus</i>	107	8.96	19.12	2.13	156	54.38	115.00	2.11
<i>Sebastes zacentrus</i>	40	3.41	8.28	2.43	74	25.46	38.65	1.52
<i>Sebastes alutus</i>	52	4.93	22.05	4.47	0	0.00	0.00	
<i>Sebastes babcocki</i>	4	0.38	1.70	4.47	0	0.00	0.00	
<i>Sebastes entomelas</i>	6	0.57	2.54	4.47	0	0.00	0.00	
<i>Sebastes elongatus</i>	764	67.01	62.48	0.93	353	132.17	88.88	0.67
<i>Sebastes maliger</i>	1	0.08	0.36	4.47	0	0.00	0.00	
<i>Sebastes proriger</i>	72	6.63	14.46	2.18	38	13.40	28.85	2.15
<i>Sebastes brevispinis</i>	20	1.36	5.40	3.96	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	52	4.93	22.05	4.47	0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	9413	749.49	802.67	1.07	3425	1301.10	1426.38	1.10
<i>Ophiodon elongatus</i>	35	3.00	3.32	1.11	4	1.19	1.85	1.55
<i>Hexagrammos</i> spp	11	1.01	1.86	1.84	0	0.00	0.00	
<i>Hippoglossus stenolepis</i>	89	7.73	10.91	1.41	36	11.48	16.56	1.44
<i>Atheresthes stomias</i>	5	0.41	0.87	2.13	2	0.88	1.21	1.38
<i>Microstomus pacificus</i>	113	10.96	10.83	0.99	41	14.28	13.29	0.93
<i>Eopsetta jordani</i>	47	4.75	9.01	1.90	3	1.31	1.90	1.45
<i>Pleuronectiformes</i>	742	72.58	68.10	0.94	274	110.74	77.41	0.70
<i>Raja rhina</i>	27	2.13	2.46	1.16	19	7.30	2.90	0.40
<i>Raja binoculata</i>	7	0.57	0.94	1.65	1	0.40	0.90	2.24
<i>Bathyraja kincaidii</i>	10	0.93	1.64	1.77	3	1.24	1.86	1.50
<i>Hydrolagus colliei</i>	194	17.29	17.88	1.03	4	1.41	3.14	2.24
<i>Squalus acanthias</i>	3	0.26	0.87	3.32	0	0.00	0.00	
<i>Gadus macrocephalus</i>	96	8.31	7.43	0.90	6	2.51	3.06	1.22
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	1	0.08	0.36	4.47	0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		16	5.34	6.88	1.29
<i>Anoplopoma fimbria</i>	1	0.10	0.43	4.47	0	0.00	0.00	
Total fish	12759	1051.66	823.85	0.78	4799	1809.41	1459.51	0.81



Factor	Cobble-sand				Pebble-boulder			
	Count	Depth	Area	Std Dev.	Count	Depth	Area	Std Dev.
Description	1	145.00	6056.92		2	114.50	5443.71	400.02
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>		0.00				0.00	0.00	
<i>Virgularia</i> sp		0.00			13	12.59	17.81	1.41
<i>Balticina septentrionalis</i>		0.00				0.00	0.00	
Anemone	3	4.95			68	65.31	77.54	1.19
<i>Gorgonocephalus eucnemis</i>		0.00				0.00	0.00	
<i>Florometra serratissima</i>	1	1.65			5292	4958.33	2658.29	0.54
Finger sponge		0.00				0.00	0.00	
Cloud sponge		0.00			14	13.37	13.97	1.04
Vase sponge	0	0.00			8	1.94	2.74	1.41
Cup sponge		0.00				0.00	0.00	
Basket sponge	5	8.26			4	3.88	5.48	1.41
Sheet sponge		0.00			32	31.00	43.84	1.41
<i>Sebastes ruberrimus</i>	2	3.30			2	1.94	2.74	1.41
<i>Sebastes pinniger</i>	2	3.30			12	11.43	11.23	0.98
<i>Sebastes helvomaculatus</i>	90	148.59			186	170.54	8.25	0.05
<i>Sebastes nigrocinctus</i>	0	0.00			3	2.81	1.51	0.54
<i>Sebastes flavidus</i>	12	19.81			14	12.70	4.26	0.34
<i>Sebastes zacentrus</i>	15	24.77			1	0.87	1.23	1.41
<i>Sebastes alutus</i>	0	0.00			0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00			0	0.00	0.00	
<i>Sebastes entomelas</i>	1	1.65			0	0.00	0.00	
<i>Sebastes elongatus</i>	36	59.44			11	9.70	10.98	1.13
<i>Sebastes maliger</i>	1	1.65			0	0.00	0.00	
<i>Sebastes proriger</i>	3	4.95			39	36.44	16.97	0.47
<i>Sebastes brevispinis</i>	0	0.00			2	1.84	0.14	0.07
<i>Sebastolobus alascanus</i>	0	0.00			0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00			0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00			1	0.97	1.37	1.41
<i>Sebastes</i> spp	846	1396.75			2129	1948.18	198.46	0.10
<i>Ophiodon elongatus</i>	3	4.95			28	26.27	14.92	0.57
<i>Hexagrammos</i> spp	0	0.00			1	0.87	1.23	1.41
<i>Hippoglossus stenolepis</i>	2	3.30			7	6.78	9.59	1.41
<i>Atheresthes stomias</i>	0	0.00			0	0.00	0.00	
<i>Microstomus pacificus</i>	10	16.51			4	3.88	5.48	1.41
<i>Eopsetta jordani</i>	4	6.60			4	3.78	2.88	0.76
<i>Pleuronectiformes</i>	61	100.71			13	11.64	8.24	0.71
<i>Raja rhina</i>	1	1.65			0	0.00	0.00	
<i>Raja binoculata</i>	1	1.65			0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00			0	0.00	0.00	
<i>Hydrolagus colliei</i>	0	0.00			42	39.45	23.68	0.60
<i>Squalus acanthias</i>	0	0.00			0	0.00	0.00	
<i>Gadus macrocephalus</i>	1	1.65			7	6.49	1.78	0.27
<i>Theragra chalcogramma</i>	0	0.00			0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00			0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00			1	0.97	1.37	1.41
<i>Anarrhichthys ocellatus</i>	0	0.00			0	0.00	0.00	
<i>Eptatretus stouti</i>	21	34.67			0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00			0	0.00	0.00	
Total fish	1112	1835.92			2507	2297.55	139.02	0.06

Factor	Boulder-pebble				Boulder-cobble			
	Count	Depth	Area	Std Dev.	Count	Depth	Area	Std Dev.
Description	1	120.00	7718.61		1	134.00	5111.26	
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>		0.00			0	0.00		
<i>Virgularia</i> sp		0.00			3	5.87		
<i>Balticina septentrionalis</i>		0.00			0	0.00		
Anemone	7	9.07			29	56.74		
<i>Gorgonocephalus eucnemis</i>		0.00			0	0.00		
<i>Florometra serratissima</i>	1422	1850.07			195	381.51		
Finger sponge		0.00			0	0.00		
Cloud sponge	1	1.30			1	1.96		
Vase sponge	0	0.00			1	0.00		
Cup sponge		0.00			0	0.00		
Basket sponge	1	1.30			0	0.00		
Sheet sponge	73	94.58			0	0.00		
<i>Sebastes ruberrimus</i>	1	1.30			1	1.96		
<i>Sebastes pinniger</i>	33	42.75			2	3.91		
<i>Sebastes helvomaculatus</i>	206	266.89			183	358.03		
<i>Sebastes nigrocinctus</i>	14	18.14			2	3.91		
<i>Sebastes flavidus</i>	28	36.28			1	1.96		
<i>Sebastes zacentrus</i>	0	0.00			0	0.00		
<i>Sebastes alutus</i>	0	0.00			0	0.00		
<i>Sebastes babcocki</i>	0	0.00			0	0.00		
<i>Sebastes entomelas</i>	0	0.00			0	0.00		
<i>Sebastes elongatus</i>	0	0.00			1	1.96		
<i>Sebastes maliger</i>	0	0.00			0	0.00		
<i>Sebastes proriger</i>	0	0.00			0	0.00		
<i>Sebastes brevispinis</i>	1	1.30			0	0.00		
<i>Sebastolobus alascanus</i>	0	0.00			0	0.00		
<i>Sebastes chlorostictus</i>	0	0.00			0	0.00		
<i>Sebastes paucispinus</i>	0	0.00			0	0.00		
<i>Sebastes</i> spp	1023	1325.37			1480	2895.57		
<i>Ophiodon elongatus</i>	53	68.67			105	205.43		
<i>Hexagrammos</i> spp	4	5.18			3	5.87		
<i>Hippoglossus stenolepis</i>	8	10.36			1	1.96		
<i>Atheresthes stomias</i>	0	0.00			0	0.00		
<i>Microstomus pacificus</i>	0	0.00			0	0.00		
<i>Eopsetta jordani</i>	0	0.00			0	0.00		
<i>Pleuronectiformes</i>	1	1.30			10	19.56		
<i>Raja rhina</i>	0	0.00			0	0.00		
<i>Raja binoculata</i>	0	0.00			2	3.91		
<i>Bathyraja kincaidi</i>	0	0.00			1	1.96		
<i>Hydrolagus colliei</i>	9	11.66			0	0.00		
<i>Squalus acanthias</i>	0	0.00			0	0.00		
<i>Gadus macrocephalus</i>	0	0.00			1	1.96		
<i>Theragra chalcogramma</i>	0	0.00			0	0.00		
<i>Clupea harengus</i>	0	0.00			0	0.00		
<i>Zaprora silenus</i>	0	0.00			0	0.00		
<i>Anarrhichthys ocellatus</i>	0	0.00			0	0.00		
<i>Eptatretus stouti</i>	0	0.00			0	0.00		
<i>Anoplopoma fimbria</i>	0	0.00			0	0.00		
Total fish	1381	1789.18			1793	3507.94		

Factor	Overall			
	Count	Depth	Area	Std Dev.
Description	50	135.10	5517.36	1152.25
Species	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	3	0.11	0.57	5.10
<i>Virgularia</i> sp	4606	205.22	657.75	3.21
<i>Balticina septentrionalis</i>	12	0.66	3.12	4.71
Anemone	216	7.82	19.03	2.43
<i>Gorgonocephalus eucnemis</i>	7	0.19	0.92	4.90
<i>Florometra serratissima</i>	61744	2033.66	3193.85	1.57
Finger sponge	4574	158.93	501.89	3.16
Cloud sponge	9152	301.30	755.93	2.51
Vase sponge	19214	283.28	896.83	3.17
Cup sponge	21	0.66	2.12	3.20
Basket sponge	24	0.78	2.16	2.77
Sheet sponge	106	3.17	15.84	4.99
<i>Sebastes ruberrimus</i>	59	2.02	2.84	1.40
<i>Sebastes pinniger</i>	645	22.10	62.61	2.83
<i>Sebastes helvomaculatus</i>	2060	71.79	79.99	1.11
<i>Sebastes nigrocinctus</i>	36	1.19	2.92	2.45
<i>Sebastes flavidus</i>	524	18.40	52.02	2.83
<i>Sebastes zacentrus</i>	187	6.27	15.65	2.50
<i>Sebastes alutus</i>	52	1.97	13.94	7.07
<i>Sebastes babcocki</i>	4	0.15	1.07	7.07
<i>Sebastes entomelas</i>	7	0.26	1.62	6.22
<i>Sebastes elongatus</i>	1632	58.28	60.42	1.04
<i>Sebastes maliger</i>	2	0.06	0.32	4.95
<i>Sebastes proriger</i>	277	9.65	18.65	1.93
<i>Sebastes brevispinis</i>	30	0.94	3.60	3.84
<i>Sebastolobus alascanus</i>	52	1.97	13.94	7.07
<i>Sebastes chlorostictus</i>	1	0.03	0.22	7.07
<i>Sebastes paucispinus</i>	1	0.04	0.27	7.07
<i>Sebastes</i> spp	29263	1000.70	1048.01	1.05
<i>Ophiodon elongatus</i>	476	18.06	42.06	2.33
<i>Hexagrammos</i> spp	41	1.46	2.33	1.60
<i>Hippoglossus stenolepis</i>	186	6.25	9.94	1.59
<i>Atheresthes stomias</i>	20	0.81	2.88	3.57
<i>Microstomus pacificus</i>	301	12.45	17.10	1.37
<i>Eopsetta jordani</i>	134	5.33	7.99	1.50
<i>Pleuronectiformes</i>	2241	90.24	102.41	1.13
<i>Raja rhina</i>	75	2.67	2.83	1.06
<i>Raja binoculata</i>	26	0.91	2.18	2.41
<i>Bathyraja kincaidi</i>	48	1.80	3.80	2.11
<i>Hydrolagus colliei</i>	318	12.19	17.71	1.45
<i>Squalus acanthias</i>	32	2.09	13.74	6.59
<i>Gadus macrocephalus</i>	127	4.71	6.36	1.35
<i>Theragra chalcogramma</i>	84	5.83	41.24	7.07
<i>Clupea harengus</i>	283	7.72	54.33	7.04
<i>Zaprora silenus</i>	1	0.04	0.27	7.07
<i>Anarrhichthys ocellatus</i>	3	0.10	0.51	5.24
<i>Eptatretus stouti</i>	37	1.23	5.46	4.44
<i>Anoplopoma fimbria</i>	1	0.04	0.27	7.07
Total fish	39266	1369.74	1115.15	0.81

Table F.2. Patch-scale data summarized by bottom type. For patches of each bottom type, the average area in  $m^2$ , standard deviation of the average area, and minimum and maximum area are listed. The total number of individuals (count), average density (in numbers per hectare), standard deviation (Std Dev.), and coefficient of variation (CV) are listed for each invertebrate and fish species by bottom type. Sample sizes for each bottom type are: Sand-mud,  $n = 172$ ; sand-sand,  $n = 2$ ; sand-pebble,  $n = 206$ ; pebble-sand,  $n = 146$ ; sand-pebble-cobble,  $n = 22$ ; scattered boulder,  $n = 313$ ; and mixed boulder,  $n = 122$ .

Factor	Sand-mud				Sand-sand			
	Average	Std Dev.	Maximum	Minimum	Average	Std Dev.	Maximum	Minimum
PatchArea	244.8	548.4	4883.2	12.9	405.4	52.1	442.3	368.6
Species	Count	Density	Stdev	CV	Count	Density	Stdev	CV
<i>Ptilosarcus gurneyi</i>	3	0.28	2.93	10.32		0.00	0.00	
<i>Virgularia</i> sp	3037	107.54	474.40	4.41		0.00	0.00	
<i>Balticina septentrionalis</i>	8	0.38	3.86	10.21		0.00	0.00	
Anemone	1	1.05	13.79	13.11		0.00	0.00	
<i>Gorgonocephalus eucnemis</i>	1	0.07	0.86	13.11		0.00	0.00	
<i>Florometra serratissima</i>	771	241.71	954.49	3.95	10	117.57	89.53	0.76
Finger sponge	8	11.45	84.07	7.34		0.00	0.00	
Cloud sponge	518	323.83	1728.59	5.34	0	0.00	0.00	
Vase sponge	36	14.72	86.30	5.86		0.00	0.00	
Cup sponge	0	0.00	0.00			0.00	0.00	
Basket sponge	0	0.00	0.00		0	0.00	0.00	
Sheet sponge	1	0.13	1.70	13.11	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	3	0.56	5.08	9.00	0	0.00	0.00	
<i>Sebastes pinniger</i>	20	6.13	35.64	5.81	5	56.53	79.94	1.41
<i>Sebastes helvomaculatus</i>	34	18.39	72.77	3.96	1	11.31	15.99	1.41
<i>Sebastes nigrocinctus</i>	1	0.04	0.53	13.11	0	0.00	0.00	
<i>Sebastes flavidus</i>	144	99.47	1147.82	11.54	0	0.00	0.00	
<i>Sebastes zacentrus</i>	18	1.60	9.99	6.24	0	0.00	0.00	
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	177	56.72	149.71	2.64	2	24.87	3.20	0.13
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	6	0.67	5.14	7.69	0	0.00	0.00	
<i>Sebastes brevispinis</i>	1	0.04	0.49	13.11	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	809	404.58	877.82	2.17	39	465.77	236.62	0.51
<i>Ophiodon elongatus</i>	34	12.48	56.31	4.51	2	22.61	31.98	1.41
<i>Hexagrammos</i> spp	3	1.24	11.77	9.47	0	0.00	0.00	
<i>Hippoglossus stenolepis</i>	11	3.20	33.66	10.50	0	0.00	0.00	
<i>Atheresthes stomias</i>	5	0.06	0.78	13.11	0	0.00	0.00	
<i>Microstomus pacificus</i>	75	14.63	54.53	3.73	0	0.00	0.00	
<i>Eopsetta jordani</i>	34	5.57	29.49	5.29	1	11.31	15.99	1.41
<i>Pleuronectiformes</i>	912	223.27	274.95	1.23	12	158.27	159.88	1.01
<i>Raja rhina</i>	13	2.56	14.04	5.49	0	0.00	0.00	
<i>Raja binoculata</i>	10	2.96	16.21	5.48	0	0.00	0.00	
<i>Bathyraja kincaidi</i>	27	4.71	19.61	4.17	1	11.31	15.99	1.41
<i>Hydrolagus colliei</i>	43	1.58	12.32	7.80	0	0.00	0.00	
<i>Squalus acanthias</i>	29	0.60	7.42	12.34	0	0.00	0.00	
<i>Gadus macrocephalus</i>	9	0.27	2.26	8.53	0	0.00	0.00	
<i>Theragra chalcogramma</i>	84	1.70	22.23	13.11	0	0.00	0.00	
<i>Clupea harengus</i>	1	0.04	0.53	13.11	0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	2557	948.40	1533.01	1.62	61	734.83	271.79	0.37

Factor	Sand-pebble				Pebble-sand			
	Average	Std Dev.	Maximum	Minimum	Average	Std Dev.	Maximum	Minimum
PatchArea	282.2	759.2	6892.2	10.1	613.9	1209.2	6234.5	16.8
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	304	10.90	42.42	3.89	1202	65.17	236.10	3.62
<i>Balticina septentrionalis</i>	4	0.61	4.55	7.46	0	0.00	0.00	
Anemone	31	9.02	49.43	5.48	58	24.09	144.62	6.00
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		0	0.00	0.00	
<i>Florometra serratissima</i>	4850	1426.11	3850.77	2.70	20492	2404.77	4035.94	1.68
Finger sponge	1538	26.83	263.54	9.82	2717	37.09	252.09	6.80
Cloud sponge	5642	603.64	2774.99	4.60	2288	87.13	333.88	3.83
Vase sponge	260	10.34	41.28	3.99	8679	323.79	1069.58	3.30
Cup sponge	16	1.18	8.40	7.13	2	0.10	0.94	9.02
Basket sponge	2	0.08	0.78	10.21	5	3.20	37.07	11.58
Sheet sponge	2	0.00	0.00		0	5.93	71.68	12.08
<i>Sebastes ruberrimus</i>	10	3.39	28.27	8.33	2	0.59	6.60	11.26
<i>Sebastes pinniger</i>	56	18.92	111.32	5.88	380	94.77	401.96	4.24
<i>Sebastes helvomaculatus</i>	103	25.18	92.84	3.69	121	22.56	61.37	2.72
<i>Sebastes nigrocinctus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes flavidus</i>	9	7.31	100.84	13.80	63	9.77	46.01	4.71
<i>Sebastes zacentrus</i>	11	2.43	20.20	8.31	14	0.64	3.96	6.15
<i>Sebastes alutus</i>	0	0.00	0.00		52	0.68	8.16	12.08
<i>Sebastes babcocki</i>	0	0.00	0.00		4	0.05	0.63	12.08
<i>Sebastes entomelas</i>	0	0.00	0.00		6	0.08	0.94	12.08
<i>Sebastes elongatus</i>	318	37.24	96.42	2.59	664	53.25	89.16	1.67
<i>Sebastes maliger</i>	1	0.01	0.21	14.35	0	0.00	0.00	
<i>Sebastes proriger</i>	66	2.77	20.13	7.26	20	1.17	7.29	6.23
<i>Sebastes brevispinis</i>	3	0.56	5.52	9.82	18	1.39	13.41	9.65
<i>Sebastolobus alascanus</i>	0	0.00	0.00		52	0.68	8.16	12.08
<i>Sebastes chlorostictus</i>	1	0.03	0.47	14.35	0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	2765	677.67	1312.58	1.94	5225	625.52	1030.20	1.65
<i>Ophiodon elongatus</i>	85	42.82	200.34	4.68	41	9.63	32.78	3.40
<i>Hexagrammos</i> spp	16	1.67	7.98	4.77	5	2.21	17.32	7.85
<i>Hippoglossus stenolepis</i>	64	4.80	24.27	5.06	52	10.55	49.05	4.65
<i>Atheresthes stomias</i>	10	0.10	1.24	12.47	3	0.04	0.25	6.94
<i>Microstomus pacificus</i>	49	8.86	38.82	4.38	106	3.83	11.23	2.93
<i>Eopsetta jordani</i>	21	2.21	13.28	6.01	68	5.28	15.63	2.96
<i>Pleuronectiformes</i>	360	54.57	160.80	2.95	631	26.09	51.22	1.96
<i>Raja rhina</i>	8	0.66	6.79	10.22	24	0.98	4.07	4.14
<i>Raja binoculata</i>	6	0.25	2.41	9.83	6	1.96	16.54	8.45
<i>Bathyraja kincaidi</i>	12	1.31	8.81	6.74	7	0.19	1.27	6.57
<i>Hydrolagus colliei</i>	22	2.99	32.07	10.73	152	20.61	58.04	2.82
<i>Squalus acanthias</i>	0	0.00	0.00		3	0.04	0.33	9.13
<i>Gadus macrocephalus</i>	22	3.38	40.01	11.84	76	6.55	20.82	3.18
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	8	14.72	159.45	10.83	0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	1	0.01	0.21	14.35	0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	1	0.03	0.44	14.35	0	0.00	0.00	
Total fish	4220	1117.79	1824.48	1.63	7975	1035.13	1210.24	1.17

Factor	Sand-pebble-cobble				Scattered boulder			
	Average	Std Dev.	Maximum	Minimum	Average	Std Dev.	Maximum	Minimum
PatchArea	269.9	959.6	4556.7	14.1	174.4	349.6	2929.3	12.6
Species	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	6	0.60	2.81	4.69	46	20.01	106.55	5.33
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	0	0.00	0.00		53	12.59	51.65	4.10
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		1	0.77	13.63	17.69
<i>Florometra serratissima</i>	1	32.18	150.95	4.69	22928	4964.81	7996.98	1.61
Finger sponge	5	27.00	124.71	4.62	302	25.72	197.59	7.68
Cloud sponge	241	435.65	1238.28	2.84	354	119.52	455.86	3.81
Vase sponge	0	0.00	0.00		715	192.43	1055.13	5.48
Cup sponge	0	0.00	0.00		2	0.52	7.79	15.02
Basket sponge	4	24.24	113.19	4.67	9	0.36	3.55	9.96
Sheet sponge	1	0.00	0.00		102	0.99	17.60	17.69
<i>Sebastes ruberrimus</i>	0	0.00	0.00		33	3.64	21.60	5.94
<i>Sebastes pinniger</i>	0	0.00	0.00		121	23.42	140.14	5.98
<i>Sebastes helvomaculatus</i>	6	12.98	42.25	3.25	1096	218.75	262.41	1.20
<i>Sebastes nigrocinctus</i>	0	0.00	0.00		11	3.11	25.54	8.21
<i>Sebastes flavidus</i>	0	0.00	0.00		270	60.91	582.17	9.56
<i>Sebastes zacentrus</i>	1	1.43	6.70	4.69	141	14.28	60.12	4.21
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		1	0.01	0.19	17.69
<i>Sebastes elongatus</i>	5	39.81	95.96	2.41	455	66.29	189.39	2.86
<i>Sebastes maliger</i>	0	0.00	0.00		1	0.02	0.37	17.69
<i>Sebastes proriger</i>	0	0.00	0.00		104	18.89	101.50	5.37
<i>Sebastes brevispinis</i>	0	0.00	0.00		5	1.33	16.31	12.24
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	66	424.44	648.63	1.53	13747	2436.92	3289.82	1.35
<i>Ophiodon elongatus</i>	0	0.00	0.00		109	28.19	87.04	3.09
<i>Hexagrammos</i> spp	0	0.00	0.00		6	2.43	19.22	7.91
<i>Hippoglossus stenolepis</i>	1	22.19	104.07	4.69	41	2.99	24.74	8.27
<i>Atheresthes stomias</i>	0	0.00	0.00		2	0.46	7.88	17.24
<i>Microstomus pacificus</i>	19	7.74	28.73	3.71	50	5.88	28.53	4.86
<i>Eopsetta jordani</i>	1	0.10	0.47	4.69	7	0.69	6.61	9.53
<i>Pleuronectiformes</i>	73	142.45	209.39	1.47	243	35.54	82.43	2.32
<i>Raja rhina</i>	2	27.39	105.76	3.86	27	5.47	43.59	7.96
<i>Raja binoculata</i>	0	0.00	0.00		4	1.56	18.28	11.73
<i>Bathyraja kincaidii</i>	0	0.00	0.00		1	0.09	1.53	17.69
<i>Hydrolagus colliei</i>	9	0.90	4.21	4.69	50	5.61	23.99	4.28
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	7	0.70	3.28	4.69	11	1.80	15.23	8.44
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		274	16.05	217.70	13.57
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		2	0.29	5.09	17.69
<i>Eptatretus stouti</i>	0	0.00	0.00		37	1.23	9.53	7.72
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	196	698.11	559.88	0.80	16506	2709.82	2955.36	1.09

Mixed boulder				
Factor	Average	Std Dev.	Maximum	Minimum
PatchArea	202.3	402.6	3757.8	16.9
Species	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00	
<i>Virgularia</i> sp	11	11.14	62.75	5.63
<i>Balticina septentrionalis</i>	0	0.00	0.00	
Anemone	73	23.25	49.46	2.13
<i>Gorgonocephalus eucnemis</i>	4	2.90	22.70	7.83
<i>Florometra serratissima</i>	12911	6109.79	8544.58	1.40
Finger sponge	4	2.17	15.26	7.04
Cloud sponge	110	86.84	316.93	3.65
Vase sponge	9	3.09	16.69	5.41
Cup sponge	1	1.27	14.02	11.05
Basket sponge	4	0.71	4.01	5.61
Sheet sponge		18.76	94.70	5.05
<i>Sebastes ruberrimus</i>	11	3.94	16.28	4.14
<i>Sebastes pinniger</i>	63	23.97	106.43	4.44
<i>Sebastes helvomaculatus</i>	699	267.38	310.32	1.16
<i>Sebastes nigrocinctus</i>	24	9.29	41.33	4.45
<i>Sebastes flavidus</i>	38	13.39	69.84	5.22
<i>Sebastes zacentrus</i>	2	0.28	2.21	7.91
<i>Sebastes alutus</i>	0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00	
<i>Sebastes elongatus</i>	11	10.63	49.43	4.65
<i>Sebastes maliger</i>	0	0.00	0.00	
<i>Sebastes proriger</i>	81	51.50	288.57	5.60
<i>Sebastes brevispinis</i>	3	3.29	32.58	9.91
<i>Sebastolobus alascanus</i>	0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00	
<i>Sebastes paucispinus</i>	1	0.25	2.77	11.05
<i>Sebastes</i> spp	6664	1889.62	1851.35	0.98
<i>Ophiodon elongatus</i>	205	47.00	90.14	1.92
<i>Hexagrammos</i> spp	11	3.13	14.38	4.60
<i>Hippoglossus stenolepis</i>	17	5.99	32.93	5.49
<i>Atheresthes stomias</i>	0	0.00	0.00	
<i>Microstomus pacificus</i>	2	3.01	23.54	7.83
<i>Eopsetta jordani</i>	2	1.20	11.05	9.19
<i>Pleuronectiformes</i>	10	9.61	48.68	5.06
<i>Raja rhina</i>	1	0.34	3.71	11.05
<i>Raja binocolata</i>	0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00	0.00	
<i>Hydrolagus colliei</i>	42	19.84	62.68	3.16
<i>Squalus acanthias</i>	0	0.00	0.00	
<i>Gadus macrocephalus</i>	2	2.17	19.27	8.87
<i>Theragra chalcogramma</i>	0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00	
<i>Zaprora silenus</i>	1	0.14	1.54	11.05
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00	
Total fish	7751	2219.08	1906.84	0.86



Table F.3. Within-transect scale data summarized by bottom type. Sample units are the 10-second intervals. The total number of individuals (count), average density (in numbers per hectare), standard deviation (Std Dev.), and coefficient of variation (CV) are listed for each invertebrate and fish species by bottom type. Sample sizes for each bottom type are: Sand-mud, n = 3317; sand-pebble, n = 3624; pebble-sand, n = 6783; sand- cobble, n = 756; pebble-cobble, n = 388; cobble-sand, n = 3; sand-scattered boulder, n = 621; pebble-scattered boulder, n = 633; cobble-scattered boulder, n = 1139; contiguous boulder-sand, n = 65; contiguous boulder-pebble, n = 65; contiguous boulder-cobble, n = 497; stacked boulder, n = 267; and rock ridge, n = 71.

Species	Sand-mud				Sand-pebble			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	3	0.62	20.65	33.39	0	0.00	0.00	
<i>Virgularia</i> sp	3012	762.24	2172.96	2.85	159	39.35	238.58	6.06
<i>Balticina septentrionalis</i>	9	2.69	56.38	20.93	4	0.88	28.07	31.74
Anemone	4	0.77	22.25	29.00	26	4.69	57.96	12.37
<i>Gorgonocephalus eucnemis</i>	1	0.18	10.47	57.59	0	0.00	0.00	
<i>Florometra serratissima</i>	564	123.73	1020.49	8.25	5242	888.36	3064.73	3.45
Finger sponge	9	1.99	41.97	21.06	1377	194.93	1102.28	5.65
Cloud sponge	1247	227.26	2604.25	11.46	1521	255.49	2535.47	9.92
Vase sponge	41	8.25	97.77	11.86	246	42.87	362.98	8.47
Cup sponge	3	0.57	19.18	33.58	1	0.16	9.43	60.20
Basket sponge	1	0.18	10.59	57.59	1	0.16	9.43	60.20
Sheet sponge	1	0.23	13.18	57.59	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	3	0.62	26.05	42.08	4	0.74	23.19	31.14
<i>Sebastes pinniger</i>	27	5.27	71.61	13.59	42	7.01	93.32	13.32
<i>Sebastes helvomaculatus</i>	65	13.18	101.72	7.71	173	29.05	146.49	5.04
<i>Sebastes nigrocinctus</i>	1	0.20	11.50	57.59	0	0.00	0.00	
<i>Sebastes flavidus</i>	161	33.31	662.09	19.88	6	1.34	42.53	31.79
<i>Sebastes zacentrus</i>	23	4.34	113.69	26.19	26	4.23	68.69	16.24
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	204	41.12	179.16	4.36	330	60.90	226.82	3.72
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	8	1.59	35.98	22.68	42	6.13	88.63	14.46
<i>Sebastes brevispinis</i>	1	0.18	10.47	57.59	3	0.61	21.82	35.78
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		1	0.16	9.43	60.20
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	979	204.28	777.33	3.81	3268	564.57	1497.23	2.65
<i>Ophiodon elongatus</i>	40	8.35	81.84	9.80	102	21.74	143.03	6.58
<i>Hexagrammos</i> spp	4	0.84	24.32	28.94	12	2.25	39.29	17.43
<i>Hippoglossus stenolepis</i>	17	3.45	55.33	16.03	25	4.25	54.11	12.72
<i>Atheresthes stomias</i>	6	1.39	32.79	23.54	8	1.79	38.05	21.26
<i>Microstomus pacificus</i>	74	17.59	122.83	6.98	73	17.55	133.61	7.62
<i>Eopsetta jordani</i>	43	9.30	89.25	9.60	35	7.13	76.27	10.69
<i>Pleuronectiformes</i>	985	223.34	469.39	2.10	384	79.88	269.74	3.38
<i>Raja rhina</i>	15	3.17	48.32	15.22	12	2.33	41.97	18.00
<i>Raja binoculata</i>	10	1.97	36.04	18.26	7	1.30	29.66	22.88
<i>Bathyraja kincaidi</i>	27	5.70	68.01	11.93	10	1.80	34.62	19.20
<i>Hydrolagus colliei</i>	36	10.00	99.28	9.93	29	6.93	82.50	11.90
<i>Squalus acanthias</i>	24	8.99	154.18	17.15	5	1.75	63.11	36.11
<i>Gadus macrocephalus</i>	9	2.72	54.56	20.05	10	2.23	43.44	19.52
<i>Theragra chalcogramma</i>	0	0.00	0.00		84	29.36	728.39	24.81
<i>Clupea harengus</i>	1	0.20	11.50	57.59	104	14.40	347.64	24.14
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	2763	601.11	1191.74	1.98	4795	869.42	1787.60	2.06

Species	Pebble-sand				Sand-cobble			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	1326	136.00	606.87	4.46	0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	63	6.54	127.97	19.57	3	2.65	42.03	15.87
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		1	0.75	20.65	27.50
<i>Florometra serratissima</i>	23689	1986.46	4356.51	2.19	209	162.03	1208.80	7.46
Finger sponge	2735	283.51	1313.86	4.63	306	220.67	799.37	3.62
Cloud sponge	4113	361.23	1933.60	5.35	27	21.63	208.35	9.63
Vase sponge	8678	663.85	1767.38	2.66	44	26.94	388.64	14.43
Cup sponge	12	0.92	23.83	25.83	0	0.00	0.00	
Basket sponge	8	0.65	19.49	29.82	2	1.36	26.46	19.43
Sheet sponge	8	0.56	23.13	41.17	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	5	0.44	16.24	37.06	6	4.84	54.53	11.27
<i>Sebastes pinniger</i>	362	33.24	479.44	14.42	7	5.03	52.36	10.40
<i>Sebastes helvomaculatus</i>	154	13.38	95.68	7.15	83	64.86	206.98	3.19
<i>Sebastes nigrocinctus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes flavidus</i>	77	6.95	97.57	14.04	32	27.04	280.59	10.38
<i>Sebastes zacentrus</i>	14	1.38	77.71	56.36	38	31.06	161.66	5.21
<i>Sebastes alutus</i>	49	5.01	87.03	17.36	0	0.00	0.00	
<i>Sebastes babcocki</i>	4	0.41	16.85	41.17	0	0.00	0.00	
<i>Sebastes entomelas</i>	6	0.61	23.83	38.81	0	0.00	0.00	
<i>Sebastes elongatus</i>	704	64.15	217.92	3.40	136	114.35	280.74	2.46
<i>Sebastes maliger</i>	1	0.09	7.17	82.36	0	0.00	0.00	
<i>Sebastes proriger</i>	59	4.94	67.65	13.70	36	29.18	176.37	6.04
<i>Sebastes brevispinis</i>	14	1.04	27.23	26.18	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	45	4.60	72.84	15.82	0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	6116	500.13	1551.29	3.10	1500	1144.00	2138.03	1.87
<i>Ophiodon elongatus</i>	48	4.36	54.03	12.38	2	1.64	32.27	19.70
<i>Hexagrammos</i> spp	12	1.11	26.61	24.00	0	0.00	0.00	
<i>Hippoglossus stenolepis</i>	88	7.80	69.98	8.97	17	12.50	102.63	8.21
<i>Atheresthes stomias</i>	4	0.37	15.18	41.38	0	0.00	0.00	
<i>Microstomus pacificus</i>	108	11.00	93.07	8.46	26	20.80	115.76	5.57
<i>Eopsetta jordani</i>	48	5.12	62.74	12.26	1	0.97	26.63	27.50
<i>Pleuronectiformes</i>	683	70.45	232.47	3.30	90	83.47	251.55	3.01
<i>Raja rhina</i>	26	2.21	36.36	16.44	10	8.47	74.55	8.80
<i>Raja binoculata</i>	7	0.62	19.46	31.48	0	0.00	0.00	
<i>Bathyraja kincaidi</i>	9	0.93	25.89	27.97	0	0.00	0.00	
<i>Hydrolagus colliei</i>	171	16.86	114.99	6.82	3	2.57	52.60	20.48
<i>Squalus acanthias</i>	3	0.28	13.51	47.62	0	0.00	0.00	
<i>Gadus macrocephalus</i>	101	9.52	81.45	8.56	3	3.31	52.60	15.90
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	1	0.09	7.17	82.36	0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		14	11.53	90.12	7.82
<i>Anoplopoma fimbria</i>	1	0.10	8.60	82.36	0	0.00	0.00	
Total fish	8920	767.19	1679.24	2.19	2004	1565.61	2218.68	1.42

Species	Pebble-cobble				Cobble-sand			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	101	191.28	603.67	3.16	0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	2	3.05	43.27	14.18	0	0.00	0.00	
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		0	0.00	0.00	
<i>Florometra serratissima</i>	845	1276.16	4357.83	3.41	0	0.00	0.00	
Finger sponge	79	126.76	617.26	4.87	1	292.66	506.90	1.73
Cloud sponge	157	261.68	1102.15	4.21	0	0.00	0.00	
Vase sponge	372	509.02	1671.01	3.28	0	0.00	0.00	
Cup sponge	0	0.00	0.00		0	0.00	0.00	
Basket sponge	4	7.54	89.91	11.92	0	0.00	0.00	
Sheet sponge	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes ruberrimus</i>	1	2.00	39.45	19.70	0	0.00	0.00	
<i>Sebastes pinniger</i>	50	97.96	1129.84	11.53	0	0.00	0.00	
<i>Sebastes helvomaculatus</i>	43	75.52	259.10	3.43	0	0.00	0.00	
<i>Sebastes nigrocinctus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes flavidus</i>	3	3.68	54.02	14.67	0	0.00	0.00	
<i>Sebastes zacentrus</i>	3	4.37	86.17	19.70	0	0.00	0.00	
<i>Sebastes alutus</i>	3	5.37	78.70	14.67	0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	49	83.52	249.42	2.99	0	0.00	0.00	
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	7	11.67	109.11	9.35	0	0.00	0.00	
<i>Sebastes brevispinis</i>	5	6.35	103.16	16.23	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	7	12.52	105.09	8.39	0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	722	1215.39	2424.47	1.99	2	585.31	1013.80	1.73
<i>Ophiodon elongatus</i>	4	8.01	81.42	10.16	0	0.00	0.00	
<i>Hexagrammos</i> spp	0	0.00	0.00		0	0.00	0.00	
<i>Hippoglossus stenolepis</i>	5	8.14	72.36	8.89	0	0.00	0.00	
<i>Atheresthes stomias</i>	1	1.38	27.24	19.70	0	0.00	0.00	
<i>Microstomus pacificus</i>	3	5.76	65.57	11.39	0	0.00	0.00	
<i>Eopsetta jordani</i>	3	6.01	68.16	11.34	0	0.00	0.00	
<i>Pleuronectiformes</i>	26	50.20	205.42	4.09	0	0.00	0.00	
<i>Raja rhina</i>	0	0.00	0.00		0	0.00	0.00	
<i>Raja binoculata</i>	0	0.00	0.00		0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Hydrolagus colliciei</i>	6	9.02	73.32	8.13	0	0.00	0.00	
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	1	2.00	39.45	19.70	0	0.00	0.00	
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	942	1608.89	2689.53	1.67	2	585.31	1013.80	1.73

Species	Sand-scattered boulder				Pebble-scattered boulder			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	17	18.20	138.11	7.59	11	13.22	124.06	9.38
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	18	18.47	119.89	6.49	25	25.50	126.67	4.97
<i>Gorgonocephalus eucnemis</i>	1	0.93	23.23	24.92	2	1.79	31.88	17.78
<i>Florometra serratissima</i>	1100	1149.60	3880.40	3.38	6442	6658.71	9260.71	1.39
Finger sponge	27	27.13	195.40	7.20	7	5.98	80.53	13.48
Cloud sponge	73	83.26	656.47	7.88	91	79.34	486.05	6.13
Vase sponge	16	17.72	133.26	7.52	216	164.31	1074.52	6.54
Cup sponge	1	1.15	28.75	24.92	0	0.00	0.00	
Basket sponge	0	0.00	0.00		1	0.72	18.23	25.16
Sheet sponge	0	0.00	0.00		5	4.14	60.56	14.62
<i>Sebastes ruberrimus</i>	7	6.91	64.96	9.40	3	3.21	46.55	14.51
<i>Sebastes pinniger</i>	34	34.32	286.68	8.35	25	23.93	189.50	7.92
<i>Sebastes helvomaculatus</i>	187	202.66	379.02	1.87	276	293.67	467.39	1.59
<i>Sebastes nigrocinctus</i>	3	3.20	46.29	14.45	3	3.56	52.93	14.85
<i>Sebastes flavidus</i>	161	170.73	2191.44	12.84	10	9.28	106.69	11.50
<i>Sebastes zacentrus</i>	14	14.74	116.19	7.88	10	9.27	136.98	14.77
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	70	79.43	268.84	3.38	38	38.59	185.44	4.81
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	23	23.04	180.93	7.85	11	11.12	110.39	9.93
<i>Sebastes brevispinis</i>	1	1.59	39.58	24.92	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		1	1.13	28.46	25.16
<i>Sebastes</i> spp	2243	2438.70	3852.14	1.58	3265	3385.84	4311.24	1.27
<i>Ophiodon elongatus</i>	21	23.01	125.10	5.44	66	76.16	262.95	3.45
<i>Hexagrammos</i> spp	3	3.45	49.67	14.40	1	0.92	23.14	25.16
<i>Hippoglossus stenolepis</i>	4	4.98	63.02	12.64	3	2.65	38.49	14.51
<i>Atheresthes stomias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Microstomus pacificus</i>	9	10.50	95.10	9.06	4	4.17	52.67	12.63
<i>Eopsetta jordani</i>	1	1.03	25.63	24.92	0	0.00	0.00	
<i>Pleuronectiformes</i>	30	33.33	155.03	4.65	4	4.36	54.83	12.59
<i>Raja rhina</i>	6	6.55	67.35	10.28	1	1.56	39.21	25.16
<i>Raja binoculata</i>	2	2.04	36.05	17.67	0	0.00	0.00	
<i>Bathyraja kincaidi</i>	2	2.31	40.67	17.62	0	0.00	0.00	
<i>Hydrolagus colliei</i>	0	0.00	0.00		17	16.92	110.08	6.51
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	0	0.00	0.00		1	1.02	25.67	25.16
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	178	143.83	1752.29	12.18	0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	2	1.96	34.59	17.61	0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	3001	3208.31	4836.00	1.51	3739	3887.36	4327.66	1.11

Species	Cobble-scattered boulder				Contiguous boulder-sand			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	0	0.00	0.00		0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	32	17.85	105.91	5.93	5	50.77	178.17	3.51
<i>Gorgonocephalus eucnemis</i>	1	0.50	16.82	33.75	0	0.00	0.00	
<i>Florometra serratissima</i>	6939	3901.72	8815.46	2.26	437	4260.51	9192.56	2.16
Finger sponge	37	25.83	182.50	7.07	0	0.00	0.00	
Cloud sponge	93	53.53	491.56	9.18	2	22.04	124.68	5.66
Vase sponge	57	24.66	443.41	17.98	10	109.81	457.72	4.17
Cup sponge	0	0.00	0.00		1	11.02	88.86	8.06
Basket sponge	5	2.77	49.04	17.70	0	0.00	0.00	
Sheet sponge	18	8.58	97.32	11.34	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	6	3.52	49.74	14.15	1	8.73	70.41	8.06
<i>Sebastes pinniger</i>	38	18.85	159.62	8.47	19	179.07	1141.82	6.38
<i>Sebastes helvomaculatus</i>	489	281.05	464.69	1.65	38	377.32	591.05	1.57
<i>Sebastes nigrocinctus</i>	2	1.50	36.23	24.14	0	0.00	0.00	
<i>Sebastes flavidus</i>	28	13.69	142.86	10.43	4	37.10	299.09	8.06
<i>Sebastes zacentrus</i>	43	21.89	139.72	6.38	0	0.00	0.00	
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	1	0.54	18.08	33.75	0	0.00	0.00	
<i>Sebastes elongatus</i>	91	53.16	199.26	3.75	1	10.01	80.74	8.06
<i>Sebastes maliger</i>	1	0.54	18.08	33.75	0	0.00	0.00	
<i>Sebastes proriger</i>	33	19.33	266.41	13.78	14	161.80	923.55	5.71
<i>Sebastes brevispinis</i>	2	1.28	32.45	25.26	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	4800	2828.88	3531.04	1.25	328	3395.27	5853.04	1.72
<i>Ophiodon elongatus</i>	85	54.63	240.16	4.40	6	58.36	185.43	3.18
<i>Hexagrammos</i> spp	3	1.77	34.63	19.58	0	0.00	0.00	
<i>Hippoglossus stenolepis</i>	22	10.67	82.88	7.77	0	0.00	0.00	
<i>Atheresthes stomias</i>	1	0.65	22.09	33.75	0	0.00	0.00	
<i>Microstomus pacificus</i>	4	2.21	37.57	17.00	0	0.00	0.00	
<i>Eopsetta jordani</i>	2	1.41	33.86	23.95	0	0.00	0.00	
<i>Pleuronectiformes</i>	31	20.31	124.06	6.11	1	11.02	88.86	8.06
<i>Raja rhina</i>	4	2.40	40.92	17.03	0	0.00	0.00	
<i>Raja binoculata</i>	0	0.00	0.00		0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Hydrolagus colliei</i>	8	4.99	61.58	12.33	0	0.00	0.00	
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	2	0.99	23.64	23.94	0	0.00	0.00	
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		2	18.55	149.54	8.06
<i>Eptatretus stouti</i>	17	9.01	78.14	8.68	0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	5713	3353.27	3620.70	1.08	414	4257.24	5978.65	1.40

Species	Contiguous boulder-pebble				Contiguous boulder-cobble			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	0	0.00	0.00		0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	3	30.78	141.21	4.59	20	26.27	171.70	6.53
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		0	0.00	0.00	
<i>Florometra serratissima</i>	1209	12200.52	13871.49	1.14	9754	12155.62	14625.00	1.20
Finger sponge	0	0.00	0.00		0	0.00	0.00	
Cloud sponge	8	89.04	627.70	7.05	20	28.52	264.54	9.27
Vase sponge	0	0.00	0.00		0	0.00	0.00	
Cup sponge	0	0.00	0.00		0	0.00	0.00	
Basket sponge	0	0.00	0.00		2	2.40	38.55	16.06
Sheet sponge	6	55.04	294.58	5.35	54	58.51	390.82	6.68
<i>Sebastes ruberrimus</i>	2	19.51	110.99	5.69	11	13.53	90.67	6.70
<i>Sebastes pinniger</i>	1	9.40	75.78	8.06	32	37.31	289.45	7.76
<i>Sebastes helvomaculatus</i>	46	463.66	698.57	1.51	321	403.49	540.53	1.34
<i>Sebastes nigrocinctus</i>	3	27.96	128.25	4.59	8	9.39	76.67	8.17
<i>Sebastes flavidus</i>	2	17.26	98.79	5.72	29	35.00	223.78	6.39
<i>Sebastes zacentrus</i>	0	0.00	0.00		13	15.70	109.39	6.97
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	2	19.74	112.13	5.68	5	7.27	72.85	10.02
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	2	19.76	111.77	5.66	29	38.17	227.30	5.96
<i>Sebastes brevispinis</i>	0	0.00	0.00		2	2.61	41.36	15.83
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	287	2803.73	3214.42	1.15	3386	4331.91	4726.93	1.09
<i>Ophiodon elongatus</i>	10	95.08	261.26	2.75	62	79.42	248.73	3.13
<i>Hexagrammos</i> spp	1	9.40	75.78	8.06	2	2.96	46.72	15.77
<i>Hippoglossus stenolepis</i>	0	0.00	0.00		3	3.36	44.02	13.11
<i>Atheresthes stomias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Microstomus pacificus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eopsetta jordani</i>	0	0.00	0.00		1	1.14	25.46	22.29
<i>Pleuronectiformes</i>	0	0.00	0.00		0	0.00	0.00	
<i>Raja rhina</i>	0	0.00	0.00		1	1.56	34.75	22.29
<i>Raja binoculata</i>	0	0.00	0.00		0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Hydrolagus colliei</i>	2	17.78	100.71	5.67	27	34.80	164.73	4.73
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		1	1.44	32.12	22.29
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		4	4.91	109.46	22.29
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
Total fish	358	3503.28	3234.63	0.92	3937	5023.97	4738.27	0.94

Species	Stacked boulder				Rock ridge			
	Count	Density	Std Dev.	CV	Count	Density	Std Dev.	CV
<i>Ptilosarcus gurneyi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Virgularia</i> sp	0	0.00	0.00		0	0.00	0.00	
<i>Balticina septentrionalis</i>	0	0.00	0.00		0	0.00	0.00	
Anemone	15	41.07	181.60	4.42	0	0.00	0.00	
<i>Gorgonocephalus eucnemis</i>	0	0.00	0.00		0	0.00	0.00	
<i>Florometra serratissima</i>	5050	11639.69	17790.11	1.53	270	2454.62	5347.07	2.18
Finger sponge	0	0.00	0.00		1	8.49	71.54	8.43
Cloud sponge	5	13.41	219.14	16.34	1798	15887.51	16887.28	1.06
Vase sponge	1	2.84	46.44	16.34	27	255.53	608.84	2.38
Cup sponge	0	0.00	0.00		3	29.37	142.07	4.84
Basket sponge	0	0.00	0.00		0	0.00	0.00	
Sheet sponge	14	33.06	292.63	8.85	0	0.00	0.00	
<i>Sebastes ruberrimus</i>	9	21.26	125.09	5.88	1	10.69	90.07	8.43
<i>Sebastes pinniger</i>	7	14.01	85.98	6.14	1	9.31	78.47	8.43
<i>Sebastes helvomaculatus</i>	181	407.67	517.46	1.27	4	35.11	183.11	5.21
<i>Sebastes nigrocinctus</i>	16	33.39	134.88	4.04	0	0.00	0.00	
<i>Sebastes flavidus</i>	10	22.11	137.02	6.20	1	8.15	68.69	8.43
<i>Sebastes zacentrus</i>	2	4.33	49.99	11.55	1	10.69	90.07	8.43
<i>Sebastes alutus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes babcocki</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes entomelas</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes elongatus</i>	0	0.00	0.00		2	17.32	102.64	5.93
<i>Sebastes maliger</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes proriger</i>	13	33.58	245.03	7.30	0	0.00	0.00	
<i>Sebastes brevispinis</i>	2	4.44	51.20	11.53	0	0.00	0.00	
<i>Sebastolobus alascanus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes chlorostictus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes paucispinus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Sebastes</i> spp	2255	5203.32	4818.60	0.93	112	994.13	1810.84	1.82
<i>Ophiodon elongatus</i>	26	59.67	185.94	3.12	4	38.69	160.58	4.15
<i>Hexagrammos</i> spp	2	3.57	41.15	11.53	1	8.00	67.37	8.43
<i>Hippoglossus stenolepis</i>	2	3.57	41.15	11.53	0	0.00	0.00	
<i>Atheresthes stomias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Microstomus pacificus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eopsetta jordani</i>	0	0.00	0.00		0	0.00	0.00	
<i>Pleuronectiformes</i>	0	0.00	0.00		7	67.39	243.60	3.61
<i>Raja rhina</i>	0	0.00	0.00		0	0.00	0.00	
<i>Raja binoculata</i>	0	0.00	0.00		0	0.00	0.00	
<i>Bathyraja kincaidi</i>	0	0.00	0.00		0	0.00	0.00	
<i>Hydrolagus colliei</i>	19	44.65	226.53	5.07	0	0.00	0.00	
<i>Squalus acanthias</i>	0	0.00	0.00		0	0.00	0.00	
<i>Gadus macrocephalus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Theragra chalcogramma</i>	0	0.00	0.00		0	0.00	0.00	
<i>Clupea harengus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Zaprora silenus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anarrhichthys ocellatus</i>	0	0.00	0.00		0	0.00	0.00	
<i>Eptatretus stouti</i>	0	0.00	0.00		0	0.00	0.00	
<i>Anoplopoma fimbria</i>	0	0.00	0.00		0	0.00	0.00	
<b>Total fish</b>	<b>2544</b>	<b>5855.56</b>	<b>4780.42</b>	<b>0.82</b>	<b>134</b>	<b>1199.48</b>	<b>1784.13</b>	<b>1.49</b>