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INTRODUCTION

The Southeast Area Monitoring and Assessment Program (SEAMAP) is a State/Federal/university program for the collection, management and dissemination of fishery-independent data (information collected without direct reliance on statistics reported by commercial or recreational fishermen) in United States waters of the Gulf of Mexico (Eldridge 1988). A major SEAMAP objective is to provide a large, standardized data base needed by management agencies, industry, and scientists to wisely manage and develop fishery resources for the least possible cost. To accomplish this goal, survey data must be disseminated in a useful format to SEAMAP participants, cooperators, and other interested organizations.

The SEAMAP Program began in March 1981 when the National Marine Fisheries Service (NMFS), Southeast Fisheries Science Center (SEFSC), presented a SEAMAP Strategic Plan (1981) to the Gulf States Marine Fisheries Commission (GSMFC). This strategic plan outlined the proposed program organization (goals, objectives, procedures, resource requirements, etc.). A SEAMAP Subcommittee was then formed within the existing framework of the GSMFC. The Subcommittee consists of one representative from each state fishery management agency [Florida Fish and Wildlife Conservation Commission (FWC); Alabama Department of Conservation and Natural Resources (ADCNR); Mississippi Department of Marine Resources (MDMR) represented by the University of Southern Mississippi, Gulf Coast Research Laboratory (USM/GCRL); Louisiana Department of Wildlife and Fisheries (LDWF); and Texas Parks and Wildlife Department (TPWD)], one from NMFS SEFSC and a non-voting member representing the Gulf of Mexico Fishery Management Council (GMFMC). The Subcommittee has organized and successfully coordinated numerous resource surveys from 1982 through 2006 (Table 1). The resultant data are published in atlases for the surveys in 1982 (Stuntz et al. 1985); 1983 (Thompson and Bane 1986a); 1984 (Thompson and Bane 1986b); 1985 (Thompson et al. 1988); 1986 (Sanders et al. 1990a); 1987 (Sanders et al. 1990b); 1988 (Sanders et al. 1991a); 1989 (Sanders et al. 1991b); 1990 (Sanders et al. 1992); 1991 (Donaldson et al. 1993); 1992 (Donaldson et al. 1994); 1993 (Donaldson et al. 1996); 1994 (Donaldson et al. 1997a); 1995 (Donaldson et al. 1997b); 1996 (Donaldson et al. 1998); 1997 (Rester et al. 1999); 1998 (Rester et al. 2000); 1999 (Rester et al. 2001); 2000 (Rester et al. 2002); 2001 (Rester et al. 2004); 2002 (Rester et al. 2008); 2003 (Rester et al. 2009); 2004 (Rester 2009); and 2005 (Rester 2010). Environmental assessment activities occurred with each of the surveys found in Table 1.

In March 2006, the SEAMAP Subcommittee identified and began to plan the year's SEAMAP survey activities for the Gulf of Mexico. In keeping with the program goal of establishing a coordinated long-term resource database, it was decided to continue the same types of survey activities conducted in 1982 through 2005. Overall survey objectives in 1982 to 2006 were to assess the distribution and abundance of recreational and commercial organisms collected by plankton, trap/video and trawl gears and document environmental factors that might affect their distribution and abundance. Data from plankton surveys are used for detection and assessment of fishery resources; in the determination of spawning seasons and areas; in investigations of early survival and recruitment mechanisms; and in estimation of the abundance of a stock based on its spawning production (Sherman et al. 1983). Assessment of the Texas Closure (Nichols 1982, 1984; Nichols and Poffenberger 1987) was the rationale for the establishment of the trawl surveys and to establish

a seasonal data base to assess the abundance and distribution of the shrimp and groundfish stocks across the northern Gulf of Mexico. The Reef Fish Survey is designed to determine the relative abundance of reef fish populations and habitat using a fish trap/video recording system (Russell, unpublished report).

A major purpose of SEAMAP is to provide resource survey data to State and Federal management agencies and universities participating in SEAMAP activities. This twenty-fourth in a series of SEAMAP environmental and biological atlases presents such data, in a summarized form, collected during the 2006 SEAMAP surveys. The area covered in the Gulf of Mexico for all SEAMAP survey activities during 2006 is shown in Figure 1.

MATERIALS AND METHODS

Methodology for the 2006 SEAMAP surveys is similar to that of the 1982 through 2005 surveys. Sampling was conducted within the U.S. Exclusive Economic Zone (EEZ) and state territorial waters. The NOAA Ship GORDON GUNTER collected plankton and environmental data during the Spring Plankton Survey from April 23 to May 29.

Vessels that participated in the Summer Shrimp/Groundfish Survey and concurrently sampled plankton and environmental data included the USM/GCRL vessel TOMMY MUNRO (June 6 – July 5), the Louisiana vessel PELICAN (June 20-23), and the NOAA Ship OREGON II (June 14 – July 16). The A.E. VERRILL (June 1-15) and the TPWD vessels TRINITY BAY, SAN JACINTO, SABINE, MATAGORDA BAY, and NUECES (June 3-27) did not sample plankton in conjunction with the summer survey.

The NOAA Ship CARETTA participated in the Reef Fish Survey from February 17 – March 28. The NOAA Ship OREGON II participated in the Reef Fish Survey from April 16 – May 9. The NOAA Ship GANDY participated in the Reef Fish Survey from May 25 – August 11.

Vessels that participated in collecting plankton and environmental data during the Fall Plankton Survey included the NOAA Ship GORDON GUNTER (August 31 – September 27) and the Alabama vessel A.E. VERRILL (September 5).

Vessels that participated in the Fall Shrimp/Groundfish Survey and concurrently sampled plankton and environmental data included the NOAA Ships OREGON II (October 15 – November 20) and GORDON GUNTER (October 13 – November 19); the Mississippi vessel TOMMY MUNRO (October 5–8); and the Louisiana vessel PELICAN (December 12–15). The Alabama vessel A.E. VERRILL (October 15 – November 9) and TPWD vessels TRINITY BAY, SAN JACINTO, SABINE, MATAGORDA BAY, and NUECES (November 1–27) did not sample plankton in conjunction with the fall survey.

PLANKTON SURVEYS

Since 1982 SEAMAP resource surveys have been conducted by the National Marine Fisheries Service in cooperation with the states of Florida, Alabama, Mississippi, Louisiana, and Texas.

Plankton sampling is carried out during these surveys at predetermined SEAMAP stations arranged in a fixed, systematic grid pattern across the entire Gulf of Mexico. Most but not all SEAMAP stations (designated by a unique SEAMAP number) are located at ~56 km or ½ degree intervals along this grid. Some SEAMAP stations are located at < 56 km intervals especially along the continental shelf edge, while others have been moved to avoid obstructions, navigational hazards or shallow water. Most SEAMAP plankton samples are taken during either dedicated plankton and shrimp/bottomfish (trawl) surveys, but over the years additional samples were taken using SEAMAP gear and collection methods at locations other than designated SEAMAP stations and/or outside established SEAMAP surveys, e.g. during Louisiana seasonal trawl surveys, SEAMAP Squid/Butterfish survey; and other serendipitous or special projects.

The sampling gear and methodology used to collect SEAMAP plankton samples are similar to those recommended by Kramer et al. (1972), Smith and Richardson (1977) and Posgay and Marak (1980). A 61 cm bongo net fitted with 0.333 (0.335)¹ mm mesh netting is fished in an oblique tow path from a maximum depth of 200 m or to 2-5 m off the bottom at depths less than 200 m. A mechanical flowmeter is mounted off-center in the mouth of each bongo net to record the volume of water filtered. Volume filtered ranges from ~20 to 600 m³, but is typically 30 to 40 m³ at the shallowest stations and 300 to 400 m³ at the deepest stations. A single or double 2x1 m pipe frame neuston net fitted with 0.947 (0.950)¹ mm mesh netting is towed at the surface with the frame half-submerged for 10 minutes. Samples are taken upon arrival on station regardless of time of day. At each station either a bongo and/or neuston tow are made depending on the specific survey. Samples are routinely preserved in 5 to 10 % formalin and later transferred after 48 hours to 95 % ethanol for long term storage. During some surveys selected samples are preserved initially in 95 % ethanol and later transferred to fresh ethanol.

Initial processing of one bongo sample and one neuston sample (except those collected by Louisiana vessels) from each SEAMAP station was accomplished at the Sea Fisheries Institute, Plankton Sorting and Identification Center (ZSIOP), in Szczecin, Poland, under a Joint Studies Agreement with NMFS. Plankton samples collected by Louisiana vessels were retained by LDWF for sorting and identification at their facilities using the same protocols used at ZSIOP. Wet plankton volumes of bongo net samples were measured by displacement to estimate net-caught zooplankton biomass (Smith and Richardson 1977). Fish eggs and larvae were removed from bongo net samples, and fish larvae only from neuston net samples. Fish eggs were not identified further, but larvae were identified to the lowest possible taxon (to family in most cases). Body length (either notochord or standard length) was measured.

Sorted ichthyoplankton specimens from ZSIOP and LDWF were sent to the SEAMAP Archiving Center, managed in conjunction with the FWC, for long-term storage under museum conditions. Sorted ichthyoplankton samples from 1982 through 2006 are available for loan to researchers throughout the country. The alternate bongo and neuston samples from each station are retained at USM/GCRL as a backup for those samples transshipped to ZSIOP in case of loss or damage during transit. These backup unsorted plankton samples are curated and housed at the SEAMAP

¹ Mesh size change in database does not represent an actual change in gear but only a change in the accuracy at which plankton mesh aperture size can be measured by the manufacturer.

Invertebrate Plankton Archiving Center, managed in conjunction with USM/GCRL, and are available for use by researchers.

See the SEAMAP Operations Manual for a more detailed description of sampling methods and protocols. Refer to the NOAA vessel cruise reports for more specific information on the individual SEAMAP Plankton Surveys conducted during 2006.

ENVIRONMENTAL DATA

Standardized methodology was used although the actual parameters measured varied among vessels participating in each survey. These parameters were measured based on equipment availability. The following parameters were recorded:

Vessel: Vessel code for each vessel.

Station: Station identifiers varied by state and vessel.

Cruise: Cruise numbers varied by state and vessels.

Date: Month/Day/Year.

Time: Local time and time zone, recorded at the start of sampling.

Latitude/longitude: Recorded to seconds.

Barometric pressure: Recorded in millibars.

Wave height: Estimated visually in meters.

Wind speed and direction: Recorded in knots with direction recorded in compass degrees from which the wind was blowing.

Air temperature: Recorded in Centigrade.

Cloud cover: Estimated visually in percent cloud cover.

Secchi depth: Secchi depth in meters, estimated at each daylight station. Standard oceanographic 30-cm white discs were lowered until no longer visible, and then raised until visible. If different depths were recorded, an average was used.

Water Color: Forel-Ule data was recorded.

The following parameters were measured at the surface, mid-depth and bottom; for bottom depths greater than 200 m, samples were taken at surface, 100 m and 200 m:

Water temperature: Temperatures were measured by a hand-held thermometer or by in situ electronic sensors onboard ship. No attempt was made to intercalibrate the various instruments used on individual vessels although several vessels did sample together to calibrate other sampling gear. Some error can be expected.

Salinity: Salinity samples were collected by Niskin bottles and stored for laboratory analysis with a salinometer. Conductivity probes or refractometers were used on some vessels. Salinity samples were also measured with in situ electronic sensors.

Chlorophyll: Chlorophyll samples were collected and frozen for later laboratory analysis. The general procedure for shipboard collection of chlorophyll was to collect more than 9 liters of water from the surface. This was kept stirred by bubbling air through it while filtration was being done. Three samples, to each of which a 1 ml, 1% (W/V), suspension of MgCO₃ was added, of up to 3 liters of water from the 9 liter sample were filtered through GF/C filters. The three filters were placed individually in Petri dishes, wrapped in opaque material and

frozen until analysis. Each of the three samples was analyzed separately in the laboratory. Values in the tables that follow are the mean of the three samples.

Laboratory analyses for chlorophyll a and phaeophytin a (chlorophyll degradation product) were conducted by fluorometry and spectrophotometry. The general extraction procedures prior to measurement were similar. Samples analyzed by spectrophotometer included other chlorophyllous products, but these have not been included as data in this report. The methodology used is described in Strickland and Parsons (1972) and Jeffrey and Humphrey (1975). Some of the values have been deleted from the data base because of analytical errors. In addition, chlorophyll samples data were also collected using a CTD. This method only obtains measures of chlorophyll a and is a measure of fluorescence (FL) and appears in the Tables as such.

Dissolved oxygen: Dissolved oxygen values were measured by electronic probes or by the Winkler titration method. No attempts were made to intercalibrate the methods. When oxygen was measured in samples collected from a Niskin sampler, the oxygen bottles were allowed to overflow a minimum of 10 seconds to eliminate oxygen contamination. The tubing which delivered the water sample was inserted to the bottom of the bottle and withdrawn while the sample was still flowing. The oxygen bottles were sealed with a ground-glass stopper and analyzed onboard the vessels.

Turbidity: Turbidity values were measured by electronic probes when equipment was available.

TRAWL SURVEYS

Summer Shrimp/Groundfish Survey

The sampling strategy and a description of the statistical rationale for the sampling design as described by Nichols in the 1982 SEAMAP Atlas (Stuntz et al. 1985) have been modified. Since 1987, the strategy has been that day/night sampling sites were chosen randomly in areas stratified by depth and statistical area. These areas are shrimp statistical zones 11 through 22 (Figure 2). Trawl stations sampled by NMFS, Alabama, Mississippi and Louisiana are made with a standard SEAMAP 40-ft net, and Texas sampled with a 20-ft net. Depth strata consisted of 1 fm intervals from 5 to 20 fm, a 2 fm interval from 20 to 22 fm, a 3 fm interval from 22 to 25 fm, 5 fm intervals from 25 to 50 fm and a 10 fm interval from 50 to 60 fm. Trawls were towed perpendicularly to the depth contours and covered the entire depth stratum on each station. Single tows were for a maximum of 55 minutes; for certain stations, a series of consecutive trawl tows was necessary to cover a given depth stratum, with a minimum individual tow across each stratum of 10 minutes and a maximum tow of 55 minutes. The Texas vessels towed 10 minutes parallel to the depth stratum. The Louisiana samples did not cover a complete depth stratum on several stations because of the distance between depth contours.

All *Litopenaeus setiferus*, *Farfantepenaeus aztecus*, and *Farfantepenaeus duorarum* were separated from the trawl catch at each station. Total count and weight by species were recorded for each station. A sample of up to 200 shrimp of each species from every trawl was sexed and measured to obtain length-frequency information. Estimated total numbers were derived from the total weights of those processed. Other species of fishes and invertebrates were identified, enumerated, and

weighed. Weights and individual measurements on selected species, other than commercial shrimp, were also recorded.

Fall Shrimp/Groundfish Survey

The design of the Fall Survey was similar to the Summer Shrimp/Groundfish Survey. During the Fall Survey trawl stations were made with the standard 40-ft and 20-ft SEAMAP nets and covered NMFS shrimp statistical zones 11 through 22 (Figure 2). Catch rates on all the vessels sampling were treated in the same manner as the Summer Shrimp/Groundfish Survey, with the exception to shrimp catches, where only 20 shrimp of each species from every trawl were measured, although Louisiana measures a minimum of 50 shrimp.

REEF FISH SURVEY

The primary purpose of this survey is to assess relative abundance and compute population estimates of reef fishes found on natural reef fish habitat in the Gulf of Mexico. Two types of gear are used to deploy video cameras: 1) a single-funnel fish trap (2.13 m long by 0.76 m square) with the camera mounted at a height of 25 cm above the bottom of the trap; or 2) a 4 camera array with 4 cameras mounted orthogonal to each other at a height of 25 cm above the bottom. Both gears are baited with squid before deployment. The resultant video recordings (typically of one hour duration) are processed back at the laboratory where fishes are identified and counted independently by two tape readers. Final counts are entered into the SEAMAP reef fish database along with additional observations on habitat and fish activity.

The hardbottom database from which sampling sites for this survey are chosen was developed in the following manner. Areas of natural reef habitat from Brownsville, Texas to the southern tip of Florida (at 81°00' W longitude and 24°02' N latitude) and between 9 and 110 m water depth were first inscribed on navigation charts, then divided into 10 by 10 nautical mile blocks (primary sample units). Each block was subdivided into 100-m², secondary sample units that were numbered and initially classified as being “reef” or “nonreef” and then entered into a database. Prior to the survey, blocks are selected from this database in the eastern and western Gulf with probability proportional to the number of “reef” sample units within a block. Within each selected block, 100 sample sites are randomly selected. During the survey each selected block is occupied for one 24-h period, where night hours are devoted to ship’s echo sounder surveys of up to 100 sites and daytime hours to trap/video sampling. Each potential sample site surveyed at night is given a final determination as being either a reef site or not based on echo patterns, vertical relief and other characteristics. Up to 8 actual “reef” sites are then randomly selected for sampling during that day (Russell, unpublished report). Trap/video sampling begins one hour after sunrise and ends one hour before sunset. Trap soak time is one hour.

Associated environmental data collected at each site usually includes profiles of salinity, temperature, and surface chlorophyll; and may also include profiles of dissolved oxygen, light transmittance, and fluorescence. Additional environmental and meteorological observations taken on stations follow standard SEAMAP methodology. During the NMFS component of the Reef Fish Survey, fish abundance is also measured with a fisheries acoustic device.

RESULTS

PLANKTON SURVEYS

The SEAMAP Archiving Center received 17,820 identified ichthyoplankton lots in 2006. Most of these samples have been accessioned into the SEAMAP Archiving Center computer systems and the remaining samples are being prepared for accession.

Plankton stations for the Spring Plankton Survey in conjunction with environmental are shown in Figure 3. The plankton stations for the Summer Shrimp/Groundfish Survey are shown in Figure 4. Plankton stations for the Spring Plankton Survey in conjunction with environmental are shown in Figure 5. Plankton stations for the Fall Shrimp/Groundfish Survey are shown in Figure 6.

ENVIRONMENTAL DATA

Environmental data were collected in conjunction with each plankton station for the Spring (Figure 3) Plankton Survey. Environmental data stations for the Summer Shrimp/Groundfish Survey are shown in Figure 7 and the Fall Shrimp/Groundfish Survey in Figure 8. A complete listing of environmental stations and dates of sampling by vessel for all SEAMAP surveys is shown in Table 2. In Table 2 under statistical zone, stations located outside the shrimp statistical zones are blank. Additional environmental information (Secchi readings, Forel-Ule, cloud cover, etc.) may be obtained from the SEAMAP Information System by contacting the SEAMAP Data Manager.

TRAWL SURVEYS

Summer Shrimp/Groundfish Survey

Shrimp and groundfish sampling was conducted during June and July from off Fort Morgan, Alabama to Brownsville, Texas. Figure 9 shows station locations. The Summer Shrimp/Groundfish Survey consisted primarily of biological trawl data and concomitant environmental and plankton data. A species composition listing from the 40-ft and 20-ft trawls is presented in Table 3, ranked in order of abundance, within the categories of finfish, crustaceans, and other invertebrates.

Tables 4a-14a present the biological data, from the 40-ft and 20-ft nets, of the eight most abundant fish, six most abundant invertebrates and squid within NMFS shrimp statistical zones 11 through 22, by depth stratum. Tables 4b-14b list the total catch and environmental data from the 40-ft and 20-ft nets within NMFS statistical zones listed above, by depth stratum.

For all catch rate tables, the standard error of the mean (SEM) was calculated with the equation:

$$SEM = \frac{\alpha}{\sqrt{n}}$$

where α = population standard deviation
n = number of samples

On all tables, NUM = number per hour; all weights shown are in kilograms per hour.

For all “b” tables, discrepancies between catch and environmental data may appear in the number of samples (n). These discrepancies may be due to different sampling depths for trawl and environmental stations, unsuccessful trawl stations and/or stations where only plankton data were collected.

Biological distributions of the ten most abundant finfish, plus red snapper, three main penaeid shrimps, five most abundant invertebrates and squid species, taken from Table 3 are displayed in plots of number/hour and lb/hour in Figures 12-51 computed within a 30 x 30 minute grid. The number in each grid square is the average number/hour or lb/hour from all stations (may be one or more stations) that were sampled within a particular grid. The number for the 30 x 30 minute grid is located in the lower right hand corner of the grid. Data for the biological plots were computed from the 40-ft and 20-ft trawl data, standardized to 40-ft trawls using relative headrope length. In the plots of lb/hour, a zero value indicates less than 0.5 lb/hr taken; only stations where some of the species were taken are shown.

Fall Shrimp/Groundfish Survey

Shrimp and groundfish sampling was conducted during October through December from off Fort Morgan, Alabama to Brownsville, Texas. Figure 10 shows the station locations. The Fall Shrimp/Groundfish Survey consisted of biological trawl data and concomitant environmental and plankton data. A species composition listing from the 40-ft and 20-ft trawls is presented in Table 15. The species lists for Table 15 are ranked in order of abundance within the categories of finfish, crustaceans, and other invertebrates.

Biological distributions of the ten most abundant finfish plus red snapper, three main penaeid shrimps, five most abundant invertebrates and squid species, taken from Table 15 are displayed in plots of number/hour and lb/hour in Figures 52 to 91 computed within a 30 x 30 minute grid. The number in each grid square is the average number/hour or lb/hour from all stations (may be one or more stations) that were sampled within a particular grid. The number for the 30 x 30 minute grid is located in the lower right hand corner of the grid. Data for the biological plots were computed from the 40-ft and 20-ft trawl data, standardized to 40-ft trawls using relative headrope length. In the plots of lb/hour, a zero value indicates less than 0.5 lb/hr taken; only stations where some of the species were taken are shown.

Tables 16a-26a present the biological data, from the 40-ft and 20-ft nets, of the eight most abundant fish, six most abundant invertebrates and squid species within NMFS shrimp statistical zones 11 through 22, by depth stratum. Tables 16b-26b list the total catch and environmental data from the 40-ft and 20-ft nets within the NMFS statistical zone listed above, by depth stratum. The catch data were calculated using the same equation that was used to compute catch rates for the Summer Shrimp/Groundfish Survey and as in the Summer Shrimp/Groundfish Survey, discrepancies in the “b” tables may have occurred.

REAL-TIME DATA MANAGEMENT

The SEAMAP Subcommittee agreed it was imperative to the success of the SEAMAP Program to distribute data on a near real-time basis to the fishing industry and others interested in SEAMAP. Summarized data were distributed weekly to approximately 200 individuals during the Summer Shrimp/Groundfish Survey. The summarized data in the form of computer plots and data listings were sent to management agencies and industry members. These plots showed station locations, catches of brown, pink, and white shrimp in lb/hr and count/lb, and total finfish catch in lb/hr.

REEF FISH SURVEY

Primary data collection and sampling for reef fish assessment were conducted during February through August by NMFS personnel. Station data for these observations can be found in Table 2 and station locations are plotted in Figure 11. A species composition listing from the traps is presented in Table 27. The species list for Table 27 is ranked in order of abundance. Video tapes from all sources were analyzed using NMFS standardized protocols.

DISCUSSION

The quasisynoptic SEAMAP sampling program and the intended long-term nature of the sampling programs have been designed to provide the baseline data set needed for fishery management and conservation. In 1985, the SEAMAP long-term baseline data was disrupted by the loss of the Spring Gulf-wide plankton and Fall Mackerel Survey. In 1986, the SEAMAP Subcommittee renewed its commitment for the collection of baseline plankton data. These ichthyoplankton samples are and will continue to be used by researchers studying taxonomy, age and growth, bioenergetics, and other life history aspects, as well as spawning biomass and recruitment. Information on species' relative distributions within the Gulf of Mexico can be analyzed with respect to environmental data to assess population abundance as a function of environmental change.

Similar analyses and investigations are being undertaken with Summer and Fall Shrimp/Groundfish Survey data. These data sets are being utilized in resource management decisions, and because of the program's ability to process data quickly, the capability exists to optimize some fisheries on a real-time basis. The long-term data set on all of the species collected, not just those of commercial and recreational importance, offers an opportunity to examine ecological relationships, with the eventual goal of developing management models that take into account the multi-species nature of most Gulf fisheries. The value of the SEAMAP program lies in its use for both immediate and long-range management goals.

Much use has already been made of SEAMAP data. For example, during the past SEAMAP surveys an area of very low dissolved bottom oxygen was found off Louisiana in the summers of 1982, 1985-2005. The presence of this phenomenon and some of the related conditions and biological effects were reported by Leming and Stuntz (1984) and Hanifen et al. (1995), and during such occurrences, SEAMAP has distributed special environmental bulletins and news releases to management agencies and the shrimp industry. In addition, SEAMAP data were used to assist in the identification of the minimum 1997 reduction in red snapper shrimp trawl bycatch mortality rate that

would enable the red snapper fishery to still recover to the 20% spawning potential ratio (SPR) by the year 2019 (Goodyear 1997). This analysis was requested and supported by the Gulf of Mexico Fishery Management Council to address the issue of red snapper bycatch. SEAMAP data were also used by some coastal states to determine the status of shrimp stocks and their movements just as the shrimping seasons were to be opened and SEAMAP data were used to develop a guide to the grouper species of the western North Atlantic Ocean (Grace et al. 1994). The primary purpose of the guide is for species identification with projects that deploy underwater video camera systems.

Since SEAMAP's inception in 1982, the goal of plankton activities in the Gulf of Mexico has been to collect data on the early life stages of fishes and invertebrates that will complement and enhance the fishery-independent data gathered on the adult life-stage (Lyczkowski-Shultz and Brasher 1996).

An annual larval index for the Atlantic bluefin tuna is generated each year from the Spring Plankton Survey and is used by the International Commission for the Conservation of Atlantic Bluefin Tunas to estimate stock size (Scott et al. 1993). Larval indices generated from the Summer Shrimp/Groundfish and Fall Plankton Surveys have now become an integral part of the king mackerel assessment in the Gulf (Gledhill and Lyczkowski-Shultz 2000). Larvae from SEAMAP collections have formed the basis for formal descriptions of larval development for fishes such as the snappers, cobia, tripletail, and dolphin (Drass et al. 2000; Ditty and Shaw 1992; Ditty and Shaw 1993; Ditty et al. 1994). Data on distribution and relative abundance of larvae of all Gulf fishes captured during SEAMAP surveys have been summarized by Richards et al. 1984, Kelley et al. 1985, Kelley et al. 1990, and Kelley et al. 1993.

The SEAMAP data collected during the Summer Shrimp/Groundfish Survey continues to be used extensively for fishery management purposes. In 1981, the Gulf of Mexico Fishery Management Council's plan for shrimp was implemented (Center for Wetland Resources 1980), with one management measure calling for the temporary closure to shrimping in the EEZ off Texas. This closure complements the traditional closure of the Texas territorial sea, normally May 15 through early July of each year. The GMFMC determined that this type of closure would allow small brown shrimp to be protected from harvest, but would still allow the taking of larger brown shrimp by fishermen in deeper waters.

The National Marine Fisheries Service was charged with evaluating the effects of the Texas Closure and submitted a report to the GMFMC in December 2005. This report contained the results and an overview of the effect of the 2005 Texas Closure. After review of these data and other information, the GMFMC voted to continue the Texas Closure for 2006.

DATA REQUESTS

It is the policy of the SEAMAP Subcommittee that all verified non-confidential SEAMAP data, collected specimens, and samples shall be available to all SEAMAP participants, other fishery researchers, and management organizations approved by the Subcommittee. This atlas presents, to those individuals interested in the data or specimens, a chance to review the data in a summary form.

Data and specimen requests from SEAMAP participants, cooperators and others will normally be handled on a first-come, first-served, and time-available basis. Because of personnel and funding

limitations, however, certain priorities must be assigned to the data and specimen requests. These priorities are reviewed by the SEAMAP Subcommittee. For further information on SEAMAP data management, see the [Southeast Area Monitoring and Assessment Program \(SEAMAP\) Management Plan: 2006-2010](#) (ASMFC 2006).

Data requests and inquiries, as well as requests for plankton samples, can be made by contacting Jeff Rester, the SEAMAP Coordinator, Gulf States Marine Fisheries Commission, 2404 Government Street, Ocean Springs, MS 39564; (228) 875-5912 or via e-mail at jrester@gsmfc.org.

Table 1. List of SEAMAP survey activities from 1982 to 2006.

SEAMAP SURVEY ACTIVITIES							
YEAR	SPRING PLANKTON	SUMMER SHRIMP/GROUNDFISH	BUTTERFISH	FALL PLANKTON	FALL SHRIMP/GROUNDFISH	WINTER PLANKTON	REEF FISH
1982	APRIL-MAY	JUNE-JULY	--	--	--	--	--
1983	APRIL-MAY	JUNE-JULY	--	--	--	DECEMBER	--
1984	APRIL-MAY	JUNE-JULY	--	AUGUST	--	DECEMBER	--
1985	--	JUNE-JULY	JULY-AUGUST	SEPTEMBER	SEPTEMBER-DECEMBER	--	--
1986	APRIL-MAY	JUNE-JULY	MAY-JUNE	SEPTEMBER	OCTOBER-DECEMBER	--	--
1987	APRIL-MAY	JUNE-JULY	--	SEPTEMBER	SEPTEMBER-DECEMBER	--	--
1988	MARCH-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	--	--
1989	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	--	--
1990	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	--	--
1991	APRIL-MAY	JUNE-JULY	--	AUGUST-SEPTEMBER	SEPTEMBER-DECEMBER	--	--
1992	APRIL-MAY	JUNE-JULY	--	AUGUST-OCTOBER	OCTOBER-DECEMBER	--	MAY-JUNE
1993	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	JANUARY- FEBRUARY	MAY-JULY, SEPTEMBER/NOVEMBER
1994	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-NOVEMBER	--	MAY-JULY, AUGUST-OCTOBER, DECEMBER
1995	APRIL-JUNE	JUNE-JULY	--	SEPTEMBER	OCTOBER-DECEMBER	--	JANUARY, JUNE-AUGUST, DECEMBER
1996	APRIL-JUNE	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	DECEMBER	JULY, AUGUST, NOVEMBER
1997	APRIL-JUNE	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	--	JUNE, JULY, AUGUST, NOVEMBER
1998	APRIL-JUNE	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-NOVEMBER	--	MAY, JULY, AUGUST
1999	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-NOVEMBER	--	JANUARY, AUGUST, OCTOBER, DECEMBER
2000	APRIL-MAY	JUNE-JULY	--	SEPTEMBER-OCTOBER	OCTOBER-DECEMBER	--	OCTOBER, NOVEMBER
2001	APRIL-MAY	JUNE-JULY	--	AUGUST-OCTOBER	OCTOBER-DECEMBER	--	MAY, JUNE, OCTOBER
2002	APRIL-MAY	JUNE-JULY	--	AUGUST-OCTOBER	OCTOBER-DECEMBER	--	FEBRUARY-MAY, OCTOBER
2003	MAY	JUNE-JULY	--	AUGUST-OCTOBER	OCTOBER-DECEMBER	--	OCTOBER-NOVEMBER
2004	APRIL-JUNE	JUNE-JULY	--	SEPTEMBER	OCTOBER-DECEMBER	JANUARY	FEBRUARY-MARCH
2005	APRIL-MAY	JUNE-AUGUST	--	--	OCTOBER-NOVEMBER	--	FEBRUARY-JULY, OCTOBER
2006	APRIL-MAY	JUNE-JULY	--	AUGUST-SEPTEMBER	OCTOBER-DECEMBER	--	FEBRUARY-AUGUST

Table 2. Selected environmental parameters measured during 2006 SEAMAP surveys in the Gulf of Mexico, by individual vessel and survey.
 (Gear codes: ST = trawl; PN = bongo; NN = neuston net; BG = bathythermograph (CTD); TV = trap/video; EV = environmental).

OREGON II, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	4/16/2006	1312	2646.7	9643.2	21		40	81	0.0	0.0	0.0	34.3	36.2	36.3	0.000	6.4	7.5	6.1	VC
2	4/16/2006	1421	2646.5	9642.8	21		42	83	0.0	0.0	0.0	34.3	36.2	36.3	0.000	7.6	7.5	6.1	VC
3	4/16/2006	1519	2646.2	9642.8	21		42	85	0.0	0.0	0.0	34.4	36.3	31.2	0.000	7.5	7.5	5.9	VC
4	4/16/2006	1610	2646.2	9642.8	21														TR
5	4/16/2006	1617	2646.4	9642.5	21		40	80	0.0	0.0	0.0	34.3	36.2	36.3	0.000	7.6	7.5	6.3	VC
6	4/16/2006	1813	2646.1	9642.1	21		42	83	0.0	0.0	0.0	34.3	36.3	36.3	0.000	7.6	7.5	6.3	VC
7	4/16/2006	1922	2646.4	9641.6	21		41	82	0.0	0.0	0.0	34.3	36.3	36.3	0.000	7.6	7.5	6.3	
8	4/16/2006	2001	2646.1	9641.8	21														TR
9	4/16/2006	2022	2645.9	9641.9	21		38	77	0.0	0.0	0.0	34.3	36.3	36.3	0.000	7.6	7.5	6.2	VC
10	4/16/2006	2147	2645.8	9641.7	21		43	86	0.0	0.0	0.0	34.3	36.3	32.4	0.000	7.6	7.5	5.3	VC
11	4/16/2006	2248	2645.8	9641.5	21		40	81	0.0	0.0	0.0	34.3	36.3	36.3	0.000	7.6	7.5	6.2	VC
12	4/17/2006	1302	2652.5	9646.5	21		36	72	22.6	20.8	19.7	33.9	36.2	36.3	0.000	7.4	7.5	6.2	VC
13	4/17/2006	1409	2652.5	9646.6	21		38	76	0.0	20.8	19.8	0.0	36.2	29.4	0.000	0.0	7.5	4.8	VC
14	4/17/2006	1505	2652.5	9646.6	21														TR
15	4/17/2006	1518	2652.5	9646.7	21		34	68	22.6	20.8	19.8	34.1	36.2	36.3	0.000	7.5	7.5	6.2	VC
16	4/17/2006	1649	2652.6	9646.7	21		36	71	23.0	20.8	19.8	34.1	36.2	36.3	0.000	7.5	7.5	6.2	VC
17	4/17/2006	1751	2652.6	9646.6	21		36	72	22.9	20.7	19.7	34.2	36.2	36.3	0.000	7.4	7.3	6.1	VC
18	4/17/2006	1842	2652.7	9646.6	21		36	71	23.2	20.8	19.7	34.1	36.2	36.3	0.000	7.5	7.3	6.1	VC
19	4/17/2006	1935	2652.7	9646.5	21		36	71	23.3	20.7	19.7	34.2	36.3	36.3	0.000	7.4	7.4	6.1	VC
20	4/17/2006	2036	2652.6	9646.5	21		36	73	23.5	20.8	19.7	34.2	36.3	36.3	0.000	7.4	7.5	6.2	VC
21	4/17/2006	2124	2652.6	9646.5	21														TR
22	4/17/2006	2145	2652.3	9646.3	21		38	75	23.4	20.8	19.7	34.1	36.3	36.3	0.000	7.4	7.5	6.2	
23	4/18/2006	1308	2732.1	9628.0	20		30	60	23.2	21.9	20.0	34.9	36.2	36.3	0.000	7.3	7.4	6.4	
24	4/18/2006	1407	2732.8	9628.0	20		37	74	23.2	21.7	19.8	34.8	36.4	34.1	0.000	7.3	7.3	5.4	
25	4/18/2006	1448	2732.9	9628.3	20														TR
26	4/18/2006	1509	2732.4	9628.7	20		36	72	23.3	21.7	20.0	34.7	36.4	36.3	0.000	7.3	7.3	6.4	
27	4/18/2006	1644	2732.3	9629.0	20		37	74	23.3	21.8	20.0	34.6	36.4	36.3	0.000	7.3	7.3	6.4	

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	4/18/2006	1739	2733.1	9628.8	20	34	69	23.3	21.7	20.1	34.4	36.3	36.3	0.000	7.4	7.4	6.5		
29	4/18/2006	1831	2732.6	9628.4	20	28	57	23.3	22.6	20.1	34.3	36.3	36.3	0.000	7.4	7.4	6.5		
30	4/18/2006	1926	2732.8	9628.4	20	29	58	23.2	22.4	20.1	34.2	36.3	36.3	0.000	7.4	7.4	6.5		
31	4/18/2006	2027	2733.9	9629.1	20	34	69	23.1	21.8	20.0	34.0	36.3	36.3	0.000	7.4	7.4	6.5		
32	4/18/2006	2125	2734.2	9629.0	20													TR	
33	4/18/2006	2149	2734.4	9628.8	20	30	59	23.3	22.0	20.1	34.1	36.3	36.3	0.000	7.4	7.4	6.5		
34	4/18/2006	2310	2734.3	9628.8	20	34	67	23.2	21.8	20.0	34.2	36.4	36.3	0.000	7.4	7.4	6.4		
35	4/19/2006	1256	2818.8	9408.2	18	26	52	22.7	21.7	19.9	36.0	36.4	36.2	0.000	7.3	7.4	6.3		
36	4/19/2006	1347	2819.1	9407.9	18	24	49	22.7	22.0	20.0	36.0	36.3	36.2	0.000	7.3	7.5	6.3		
37	4/19/2006	1430	2819.3	9407.9	18													TR	
38	4/19/2006	1447	2819.5	9408.0	18	22	44	22.7	22.0	20.4	35.9	36.2	36.3	0.000	7.4	7.5	7.1		
39	4/19/2006	1615	2819.4	9408.7	18	20	39	0.0	21.9	20.5	0.0	36.2	36.3	0.000	0.0	7.5	7.3		
40	4/19/2006	1717	2819.9	9408.8	18	19	38	22.7	21.9	20.5	35.9	36.1	36.3	0.000	7.4	7.5	7.1		
41	4/19/2006	1848	2819.6	9408.8	18	19	38	22.8	21.9	20.4	35.9	36.1	36.3	0.000	7.4	7.6	7.2		
42	4/19/2006	1941	2820.1	9408.7	18	20	40	22.8	21.9	20.5	36.0	36.2	36.3	0.000	7.4	7.6	7.2		
43	4/19/2006	2021	2820.0	9408.9	18													TR	
44	4/19/2006	2042	2819.5	9408.9	18	19	38	22.9	21.9	20.4	35.9	36.1	36.3	0.000	7.4	7.6	7.3		
45	4/19/2006	2215	2819.3	9409.0	18	18	37	23.2	21.9	20.3	35.9	36.1	36.3	0.000	7.4	7.6	7.1		
46	4/19/2006	2307	2819.2	9409.0	18	22	45	23.1	21.7	20.1	35.9	36.2	36.2	0.000	7.4	7.6	6.7		
47	4/20/2006	1254	2805.6	9432.0	18														
48	4/20/2006	1344	2805.1	9432.5	18														
49	4/24/2006	1320	2804.8	9432.3	18	28	55	24.7	22.9	20.7	35.0	36.4	36.3	0.000	7.1	7.3	7.0		
50	4/24/2006	1403	2804.4	9432.0	18	26	51	24.7	23.0	20.9	34.9	36.4	36.4	0.000	7.1	7.3	7.2		
51	4/24/2006	1442	2804.6	9431.9	18													TR	
52	4/24/2006	1457	2804.0	9431.6	18	26	52	24.8	23.1	20.7	34.9	36.5	36.3	0.000	7.0	7.3	7.1		
53	4/24/2006	1643	2803.8	9431.7	18	27	54	24.8	23.1	20.8	34.9	36.5	36.3	0.000	7.0	7.3	7.1		
54	4/24/2006	1738	2803.4	9431.5	18	26	53	24.9	23.1	20.9	34.9	36.5	36.4	0.000	7.1	7.3	6.9		

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																				
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR	
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX		
55	4/24/2006	1817	2803.7	9431.5	18															TR
56	4/24/2006	1830	2803.3	9432.2	18	26	53	25.0	23.1	20.9	34.9	36.5	36.4	0.000	7.1	7.3	7.0			
57	4/24/2006	2018	2802.2	9432.2	18	28	56	25.1	22.9	20.7	34.8	36.5	36.4	0.000	7.1	7.3	7.2			
58	4/24/2006	2110	2802.9	9430.8	18	27	54	25.2	23.0	20.8	34.8	36.5	36.4	0.000	7.1	7.3	7.0			
59	4/26/2006	1254	2754.6	9348.8	0	45	90	25.3	23.0	19.9	35.3	36.5	36.5	0.000	6.9	7.2	5.5			VC
60	4/26/2006	1353	2754.2	9348.2	0	39	78	25.3	23.5	20.8	35.3	36.5	36.5	0.000	6.9	7.2	6.2			VC
61	4/26/2006	1437	2754.2	9348.2	0															TR
62	4/26/2006	1456	2753.8	9348.9	0	38	77	25.3	23.2	21.0	35.4	36.5	36.5	0.000	7.0	7.2	6.3			VC
63	4/26/2006	1631	2753.5	9349.2	0	37	74	25.5	23.5	20.9	35.1	36.5	36.5	0.000	6.9	7.2	6.5			VC
64	4/26/2006	1724	2753.3	9348.4	0	43	86	25.5	23.0	20.1	35.2	36.5	36.5	0.000	7.0	7.2	5.4			VC
65	4/26/2006	1842	2753.0	9348.9	0	24	47	25.5	23.8	22.9	35.3	36.5	36.5	0.000	7.0	7.1	7.4			VC
66	4/26/2006	1933	2752.6	9349.7	0	26	52	25.3	23.8	22.7	35.4	36.5	36.5	0.000	7.0	7.1	7.3			VC
67	4/26/2006	2035	2752.0	9348.5	0	44	87	25.5	22.9	20.5	35.4	36.5	36.5	0.000	7.0	7.2	5.8			VC
68	4/26/2006	2131	2751.8	9349.2	0	38	75	25.3	23.2	21.1	35.6	36.5	36.5	0.000	7.0	7.3	6.5			VC
69	4/26/2006	2231	2751.5	9349.3	0	40	80	25.4	23.3	20.7	35.5	36.5	36.5	0.000	7.0	7.3	6.0			VC
70	4/27/2006	1245	2754.7	9334.8	0	39	78	24.8	23.5	20.7	36.2	36.5	36.5	0.000	6.9	7.1	6.1			
71	4/27/2006	1334	2753.8	9335.5	0	43	86	24.8	23.6	19.8	36.3	36.5	36.4	0.000	6.9	7.1	5.4			
72	4/27/2006	1438	2754.2	9338.8	0	54	108	24.9	22.5	19.6	36.2	36.5	36.4	0.000	6.9	7.1	5.2			
73	4/27/2006	1520	2754.3	9339.0	0															TR
74	4/27/2006	1544	2754.9	9337.6	0	34	67	24.9	23.5	22.6	36.2	36.5	36.5	0.000	6.9	7.1	7.1			
75	4/27/2006	1717	2755.6	9337.9	0	42	85	24.9	23.0	20.4	36.2	36.5	36.5	0.000	6.9	7.2	5.9			
76	4/27/2006	1818	2756.3	9337.5	0															
77	4/27/2006	1915	2756.3	9337.3	0	40	81	24.9	23.1	20.5	36.2	36.5	36.5	0.000	7.0	7.3	5.9			
78	4/27/2006	2009	2757.3	9337.3	0	46	93	25.0	23.1	20.0	36.2	36.5	36.5	0.000	7.0	7.3	5.5			
79	4/27/2006	2105	2757.3	9335.6	0	44	87	25.0	23.3	20.0	36.3	36.5	36.5	0.000	7.0	7.3	5.5			
80	4/27/2006	2157	2758.4	9335.9	0	48	95	25.0	22.8	19.6	36.2	36.5	36.4	0.000	7.0	7.2	5.2			
81	4/27/2006	2252	2757.8	9337.1	0	44	88	25.0	23.0	20.0	36.3	36.5	36.4	0.000	7.0	7.3	5.6			

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	4/28/2006	1242	2800.8	9329.3	0	45	90	24.9	22.9	20.3	36.1	36.5	36.2	0.000	6.9	7.2	5.6	VC	
83	4/28/2006	1336	2801.8	9329.6	0	42	84	24.9	22.9	20.2	36.1	36.5	36.4	0.000	6.9	7.3	5.7	VC	
84	4/28/2006	1424	2801.8	9329.6	0													TR	
85	4/28/2006	1437	2802.0	9329.8	0	40	81	24.9	22.9	20.1	36.1	36.5	36.4	0.000	6.9	7.3	5.8	VC	
86	4/28/2006	1628	2807.5	9328.7	0	36	73	25.0	23.0	19.1	35.9	36.5	36.1	0.000	6.9	7.2	6.3	VC	
87	4/28/2006	1723	2807.7	9329.0	0	35	70	25.1	23.1	19.3	35.9	36.5	36.1	0.000	6.9	7.2	6.4	VC	
88	4/28/2006	1818	2807.9	9329.6	0	30	61	25.0	23.2	20.0	36.0	36.5	36.2	0.000	6.9	7.2	7.0	VC	
89	4/28/2006	1903	2807.9	9329.6	0													TR	
90	4/28/2006	1916	2808.0	9329.9	0	31	62	25.0	23.2	20.5	36.1	36.5	36.3	0.000	6.9	7.2	7.3	VC	
91	4/28/2006	2044	2808.2	9329.3	0	30	61	25.0	23.1	20.3	36.1	36.5	36.3	0.000	7.0	7.2	7.2	VC	
92	4/28/2006	2143	2808.2	9329.2	0	29	58	25.0	23.2	20.7	36.1	36.5	36.3	0.000	7.0	7.2	7.4	VC	
93	4/28/2006	2247	2808.7	9328.9	0	30	61	24.9	23.1	19.3	36.1	36.5	36.1	0.000	7.0	7.2	6.5		
94	4/30/2006	1243	2754.5	9317.9	0	36	72	24.8	24.2	20.6	36.5	36.6	36.5	0.000	6.7	6.8	5.8		
95	4/30/2006	1412	2753.8	9316.9	0	30	60	24.9	24.7	22.3	36.5	36.6	36.5	0.000	6.7	6.8	6.8		
96	4/30/2006	1452	2754.0	9317.0	0													TR	
97	4/30/2006	1727	2752.0	9316.2	0	44	88	24.9	23.9	20.8	36.5	36.5	36.5	0.000	6.8	7.0	6.0	VC	
98	4/30/2006	1722	2752.2	9316.4	0													VC	
99	4/30/2006	1839	2751.3	9316.2	0	69	138	24.9	22.1	17.5	36.5	36.5	36.3	0.000	6.8	6.9	4.3		
100	4/30/2006	1934	2752.7	9317.4	0	27	54	24.9	24.8	22.8	36.5	36.6	36.5	0.000	6.8	6.8	7.1		
101	4/30/2006	2014	2752.5	9317.3	0													TR	
102	4/30/2006	2025	2752.3	9317.8	0	46	91	24.9	23.0	20.2	36.5	36.5	36.5	0.000	6.8	7.1	5.6	VC	
103	4/30/2006	2158	2752.3	9317.7	0	36	73	0.0	24.4	21.9	0.0	36.5	36.5	0.000	0.0	6.9	6.8		
104	4/30/2006	2247	2752.5	9318.3	0	26	53	25.1	24.8	23.0	36.5	36.6	36.5	0.000	6.8	6.9	7.2		
105	5/1/2006	1240	2749.2	9302.2	0	65	130	25.2	22.8	18.3	36.4	36.6	36.4	0.000	6.6	6.8	4.5		
106	5/1/2006	1336	2748.6	9301.9	0	76	153	25.2	22.3	17.7	36.4	36.5	36.4	0.000	6.7	6.8	4.4		
107	5/1/2006	1432	2748.9	9302.0	0	72	145	25.2	22.8	17.5	36.4	36.6	36.3	0.000	6.7	6.9	4.4		

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																				
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR	
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX		
108	5/1/2006	1510	2748.9	9302.4	0															TR
109	5/1/2006	1530	2748.5	9302.7	0		32	65	25.2	24.1	22.6	36.4	36.5	36.6	0.000	6.7	6.9	6.8		
110	5/1/2006	1704	2748.0	9303.0	0		42	83	25.3	23.7	22.3	36.4	36.6	36.5	0.000	6.7	7.0	6.8		
111	5/1/2006	1814	2747.5	9304.1	0															VC
112	5/1/2006	1908	2748.4	9304.2	0															VC
113	5/1/2006	1954	2748.4	9304.2	0															TR
114	5/1/2006	2004	2748.7	9304.8	0															VC
115	5/1/2006	2151	2749.3	9304.3	0															VC
116	5/1/2006	2246	2749.3	9303.5	0															VC
117	5/2/2006	1232	2748.9	9254.0	0															VC
118	5/2/2006	1323	2749.1	9253.8	0															VC
119	5/2/2006	1417	2749.1	9253.6	0															VC
120	5/2/2006	1509	2749.3	9253.8	0															VC
121	5/2/2006	1549	2749.3	9253.8	0															TR
122	5/2/2006	1603	2749.3	9253.5	0															VC
123	5/2/2006	1736	2749.4	9253.4	0															VC
124	5/2/2006	1856	2749.3	9253.2	0															VC
125	5/2/2006	1950	2749.3	9253.1	0															VC
126	5/2/2006	2042	2749.4	9253.0	0															VC
127	5/2/2006	2135	2749.4	9252.9	0															VC
128	5/5/2006	1231	2750.7	9252.2	0															VC
129	5/5/2006	1323	2750.7	9252.9	0															VC
130	5/5/2006	1418	2750.2	9253.4	0															VC
131	5/5/2006	1506	2750.2	9253.4	0															TR
132	5/5/2006	1517	2750.4	9254.0	0															VC
133	5/5/2006	1647	2750.4	9254.1	0															VC
134	5/5/2006	1745	2750.5	9254.2	0															VC

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX	SUR	SUR	MID	MAX	
135	5/5/2006	1843	2750.4	9254.4	0														VC
136	5/5/2006	1930	2750.4	9254.4	0														TR
137	5/5/2006	1939	2750.1	9254.5	0														VC
138	5/5/2006	2133	2751.1	9255.1	0														VC
139	5/5/2006	2228	2751.1	9255.2	0														VC
140	5/6/2006	1227	2802.8	9226.0	16														VC
141	5/6/2006	1324	2802.3	9226.4	16														VC
142	5/6/2006	1423	2801.6	9227.3	16														VC
143	5/6/2006	1518	2800.5	9229.0	16														VC
144	5/6/2006	1602	2800.5	9229.0	16														TR
145	5/6/2006	1618	2801.7	9229.1	16														VC
146	5/6/2006	1758	2801.8	9228.5	16														VC
147	5/6/2006	1914	2802.2	9229.0	16														VC
148	5/6/2006	2014	2802.2	9229.0	16														TR
149	5/6/2006	2026	2802.7	9228.6	16														VC
150	5/6/2006	2203	2802.8	9228.9	16														VC
151	5/6/2006	2259	2804.3	9229.0	16														VC
152	5/7/2006	1225	2758.3	9202.6	0														VC
153	5/7/2006	1316	2758.0	9201.0	0														VC
154	5/7/2006	1405	2757.8	9201.0	0														VC
155	5/7/2006	1504	2757.3	9200.8	0														VC
156	5/7/2006	1545	2757.3	9200.8	0														TR
157	5/7/2006	1559	2756.5	9201.0	0														VC
158	5/7/2006	1725	2756.7	9202.2	0														VC
159	5/7/2006	1817	2756.6	9202.7	0														VC
160	5/7/2006	1909	2757.7	9203.1	0														VC
161	5/7/2006	1951	2757.7	9203.1	0														TR

Table 2. Selected environmental parameters (continued)

OREGON II, REEFFISH SURVEY																				
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL	DISSOLVED OXYGEN, PPM			GEAR	
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX	SUR	SUR	MID	MAX		
162	5/7/2006	2006	2757.4	9203.1	0															VC
163	5/7/2006	2130	2757.7	9203.6	0															VC
164	5/8/2006	1223	2804.4	9200.0	0															VC
165	5/8/2006	1316	2804.6	9159.8	15															VC
166	5/8/2006	1413	2804.4	9159.6	15															VC
167	5/8/2006	1508	2804.2	9159.4	15															VC
168	5/8/2006	1549	2804.2	9159.4	15															TR
169	5/8/2006	1604	2804.6	9159.1	15															VC
170	5/8/2006	1738	2805.2	9159.6	15															VC
171	5/8/2006	1850	2805.3	9159.6	15															VC
172	5/8/2006	1941	2805.5	9159.5	15															VC
173	5/8/2006	2021	2805.5	9159.5	15															TR
174	5/8/2006	2034	2805.4	9159.1	15															VC
175	5/8/2006	2206	2805.6	9159.1	15															VC
176	5/9/2006	1218	2805.8	9100.6	15															VC
177	5/9/2006	1307	2806.0	9100.8	15															VC
178	5/9/2006	1400	2805.9	9101.2	15															VC
179	5/9/2006	1450	2805.8	9101.2	15															VC
180	5/9/2006	1532	2805.8	9101.2	15															TR
181	5/9/2006	1548	2806.1	9101.7	15															VC
182	5/9/2006	1714	2806.0	9102.3	15															VC

Table 2. Selected environmental parameters (continued)

CARETTA, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	2/17/2006	1918	2908.3	8547.1	8		45	90	19.8	19.4	18.6	36.5	36.4	36.6	0.000	6.9	6.7	6.1	VC
2	2/17/2006	2026	2908.4	8547.9	8		62	125	19.9	19.3	16.9	36.5	36.4	36.5	0.000	6.8	6.7	6.0	VC
3	2/17/2006	2131	2908.4	8547.0	8		46	93	20.0	19.3	18.5	36.4	36.4	36.7	0.000	7.0	6.6	6.1	VC
4	2/18/2006	1325	2915.2	8541.4	8		35	70	20.0	19.3	16.9	36.5	36.5	36.3	0.000	7.0	7.0	7.4	VC
5	2/18/2006	1422	2915.3	8541.4	8		38	76	20.0	19.1	16.8	36.5	36.5	36.2	0.000	7.0	7.0	7.4	VC
6	2/18/2006	1521	2915.4	8541.5	8		36	71	20.1	19.2	16.8	36.5	36.5	36.2	0.000	6.9	6.9	7.3	VC
7	2/18/2006	1617	2915.6	8541.6	8		30	60	20.2	19.1	17.5	36.5	36.6	36.6	0.000	7.0	6.9	7.4	VC
8	2/18/2006	1718	2915.6	8541.7	8		36	73	20.3	19.0	17.0	36.5	36.5	36.3	0.000	7.0	6.8	7.3	VC
9	2/18/2006	1819	2915.8	8541.8	8		31	62	20.5	19.3	17.3	36.5	36.5	36.0	0.000	7.0	6.8	7.6	VC
10	2/18/2006	1915	2916.0	8542.1	8														VC
11	2/18/2006	2009	2916.0	8542.2	8		36	72	20.5	19.0	16.8	36.5	36.5	36.3	0.000	7.0	6.6	7.2	VC
12	2/18/2006	2107	2916.2	8542.3	8		30	59	20.5	19.1	17.6	36.5	36.5	36.5	0.000	7.1	6.5	6.7	VC
13	2/18/2006	2159	2916.2	8542.4	8		30	60	20.5	19.2	17.4	36.5	36.5	36.7	0.000	7.1	6.6	6.6	VC
14	2/20/2006	1342	2911.6	8540.4	8		39	78	19.8	19.2	17.3	36.5	36.5	36.4	0.000	7.0	6.5	6.4	
15	2/20/2006	1433	2911.5	8540.5	8		55	110	19.8	18.7	99.0	36.5	36.5	99.0	0.000	7.0	7.1	2.5	VC
16	2/20/2006	1527	2911.6	8540.6	8														VC
17	2/20/2006	1619	2911.4	8540.5	8														VC
18	2/20/2006	1711	2911.4	8541.0	8														VC
19	2/20/2006	1806	2910.9	8541.1	8														VC
20	2/20/2006	1908	2911.4	8541.2	8														VC
21	2/20/2006	2002	2911.3	8541.2	8														VC
22	2/20/2006	2051	2911.3	8541.3	8														VC
23	2/20/2006	2143	2910.3	8542.0	8														VC
24	2/21/2006	1337	2915.6	8545.6	8														VC
25	2/21/2006	1439	2913.4	8545.8	8														VC
26	2/21/2006	1537	2913.5	8545.7	8														VC
27	2/21/2006	1634	2913.8	8545.6	8														VC

Table 2. Selected environmental parameters (continued)

CARETTA, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	2/21/2006	1726	2913.8	8545.4	8														VC
29	2/21/2006	1814	2913.8	8545.4	8														VC
30	2/21/2006	1916	2911.5	8546.9	8														VC
31	2/21/2006	2002	2911.8	8546.0	8														VC
32	2/21/2006	2053	2909.7	8545.7	8														VC
33	2/21/2006	2141	2909.8	8543.9	8														VC
34	2/22/2006	1343	2916.5	8542.7	8														VC
35	2/22/2006	1432	2916.5	8542.7	8														VC
36	2/22/2006	1520	2916.5	8542.7	8														VC
37	2/22/2006	1609	2916.4	8542.5	8														VC
38	2/22/2006	1659	2916.3	8542.5	8														VC
39	2/22/2006	1747	2916.0	8543.5	8														VC
40	2/22/2006	1837	2915.1	8541.8	8														VC
41	2/22/2006	1929	2914.0	8540.7	8														VC
42	2/22/2006	2017	2913.8	8540.4	8														VC
43	2/22/2006	2109	2913.8	8539.2	8														VC
44	2/22/2006	2157	2914.6	8540.0	8														VC
45	3/1/2006	1257	2812.9	8436.9	6		35	70	20.1	19.4	18.6	36.5	36.4	36.4	0.000	7.4	7.6	7.0	VC
46	3/1/2006	1345	2812.9	8437.7	6		35	70	20.2	19.5	18.8	36.5	36.5	36.4	0.000	7.3	7.6	6.9	VC
47	3/1/2006	1436	2811.7	8438.3	6		36	72	20.3	19.6	18.8	36.5	36.5	36.4	0.000	7.4	7.4	6.9	VC
48	3/1/2006	1525	2811.2	8439.5	6		35	70	20.4	20.0	19.0	36.5	36.5	36.4	0.000	7.2	7.1	6.9	VC
49	3/1/2006	1615	2810.3	8437.6	6		36	72	20.5	19.7	18.8	36.5	36.5	36.4	0.000	7.4	7.4	6.9	VC
50	3/1/2006	1718	2807.9	8440.1	6		39	78	21.2	20.1	18.6	36.5	36.5	36.4	0.000	7.3	7.3	7.0	VC
51	3/1/2006	1817	2806.7	8436.8	6		38	77	21.3	20.1	18.5	36.5	36.5	36.4	0.000	7.3	7.4	7.0	VC
52	3/1/2006	1914	2805.0	8439.1	6		39	78	21.3	20.2	18.7	36.5	36.5	36.4	0.000	7.3	7.4	7.0	VC
53	3/1/2006	2002	2805.1	8437.3	6		40	79	21.3	20.0	18.5	36.5	36.5	36.4	0.000	7.3	7.3	7.1	VC
54	3/1/2006	2107	2806.4	8441.6	6		40	79	21.2	20.0	18.7	36.5	36.5	36.4	0.000	7.3	6.9	7.0	VC

Table 2. Selected environmental parameters (continued)

CARETTA, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	3/1/2006	2155	2807.8	8442.4	6	40	79	21.2	20.0	18.7	36.5	36.5	36.4	0.000	7.3	7.1	7.0	VC	
56	3/2/2006	1300	2814.0	8444.5	6	34	69	21.0	20.1	19.1	36.5	36.5	36.4	0.000	7.3	7.3	6.9	VC	
57	3/2/2006	1347	2813.9	8444.4	6	35	70	21.0	20.0	19.1	36.5	36.5	36.4	0.000	7.3	7.2	6.9	VC	
58	3/2/2006	1438	2813.8	8444.5	6	38	75	21.0	20.0	19.0	36.5	36.5	36.4	0.000	7.3	7.2	7.0	VC	
59	3/2/2006	1527	2813.8	8444.3	6	35	70	21.1	20.1	19.1	36.5	36.5	36.4	0.000	7.3	7.3	7.0	VC	
60	3/2/2006	1619	2813.4	8443.8	6	36	71	21.2	20.1	19.1	36.5	36.5	36.4	0.000	7.3	7.3	6.9	VC	
61	3/2/2006	1713	2813.3	8443.9	6	35	70	21.1	20.2	19.0	36.5	36.5	36.4	0.000	7.3	7.4	7.0	VC	
62	3/2/2006	1806	2813.5	8444.3	6	36	73	21.3	20.1	19.0	36.5	36.5	36.4	0.000	7.3	7.2	6.9	VC	
63	3/2/2006	1853	2813.6	8444.4	6	36	72	21.1	20.1	19.0	36.5	36.5	36.4	0.000	7.3	7.2	7.0	VC	
64	3/5/2006	1604	2858.5	8521.4	8	30	59	19.6	19.5	19.2	36.5	36.5	36.4	0.000	7.6	7.6	7.0		
65	3/5/2006	1655	2858.6	8521.7	8	36	72	19.6	19.5	19.2	36.5	36.5	36.4	0.000	7.6	7.6	6.9		
66	3/5/2006	1746	2858.8	8521.8	8	32	64	19.7	19.5	19.2	36.5	36.5	36.4	0.000	7.6	7.6	7.0		
67	3/5/2006	1832	2859.0	8521.3	8	32	65	19.7	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.6	6.8		
68	3/5/2006	1921	2858.7	8521.8	8	36	71	19.8	19.5	19.2	36.5	36.5	36.4	0.000	7.6	7.6	6.9		
69	3/5/2006	2018	2859.0	8521.8	8	32	63	19.8	19.5	19.2	36.5	36.5	36.5	0.000	7.6	7.7	7.1		
70	3/5/2006	2109	2858.8	8521.9	8	35	70	19.9	19.5	19.1	36.5	36.5	36.4	0.000	7.7	7.7	6.8		
71	3/5/2006	2216	2858.9	8521.9	8	38	75	19.9	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.7	6.8		
72	3/6/2006	1311	2859.0	8521.9	8	30	61	19.5	19.5	19.2	36.5	36.5	36.5	0.000	7.6	7.6	7.0		
73	3/6/2006	1359	2859.2	8522.0	8	32	63	19.5	19.4	19.1	36.5	36.5	36.4	0.000	7.6	7.5	7.4		
74	3/6/2006	1445	2859.2	8522.3	8	30	61	19.6	19.4	19.2	36.5	36.5	36.5	0.000	7.6	7.4	7.2		
75	3/6/2006	1530	2859.2	8522.1	8	31	62	19.6	19.4	19.1	36.5	36.5	36.4	0.000	7.6	7.4	7.4		
76	3/6/2006	1617	2859.2	8522.2	8	30	59	19.7	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.5	7.3		
77	3/6/2006	1701	2859.3	8521.9	8	30	59	19.8	19.4	19.1	36.5	36.5	36.4	0.000	7.6	7.5	7.6		
78	3/6/2006	1745	2859.3	8522.0	8	32	65	19.7	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.6	7.4		
79	3/6/2006	1830	2859.4	8522.3	8	32	64	19.9	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.5	7.4		
80	3/6/2006	1914	2859.4	8522.2	8	31	62	20.0	19.5	19.1	36.5	36.5	36.4	0.000	7.6	7.6	7.3		
81	3/6/2006	1959	2859.4	8522.5	8	30	61	20.0	19.5	19.2	36.5	36.5	36.4	0.000	7.6	7.7	7.0		

Table 2. Selected environmental parameters (continued)

CARETTA, REEFFISH SURVEY																			
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	3/6/2006	2044	2859.5	8522.6	8	29	58	20.0	19.5	19.2	36.5	36.5	36.5	0.000	7.6	7.6	7.0		
83	3/6/2006	2129	2859.4	8522.7	8	34	69	19.9	19.5	19.2	36.5	36.5	36.5	0.000	7.6	7.5	7.1		
84	3/17/2006	1304	2910.1	8542.5	8	41	82	20.4	20.0	19.6	36.5	36.5	36.5	0.000	7.3	7.2	7.0	VC	
85	3/17/2006	1352	2910.1	8542.6	8	40	81	20.4	20.1	19.5	36.5	36.5	36.5	0.000	7.4	7.2	6.9	VC	
86	3/17/2006	1444	2909.9	8543.1	8	40	81	20.4	20.0	19.5	36.5	36.5	36.5	0.000	7.4	7.2	6.9	VC	
87	3/17/2006	1535	2909.8	8543.2	8	40	80	20.4	19.9	19.5	36.5	36.5	36.5	0.000	7.4	7.0	6.8	VC	
88	3/17/2006	1622	2909.8	8543.6	8	41	82	20.5	20.0	19.5	36.2	36.5	36.5	0.000	4.1	7.2	6.7	VC	
89	3/17/2006	1720	2908.6	8546.3	8	58	117	20.8	19.8	19.3	36.5	36.5	36.5	0.000	7.4	6.9	6.5	VC	
90	3/17/2006	1809	2908.3	8546.4	8	52	104	20.7	19.9	19.3	36.5	36.5	36.5	0.000	7.4	7.1	6.5	VC	
91	3/17/2006	1855	2908.3	8546.7	8	48	96	20.8	19.9	19.3	36.5	36.5	36.4	0.000	5.8	7.0	6.5	VC	
92	3/17/2006	1939	2908.3	8546.8	8	50	99	20.7	19.9	19.4	36.4	36.8	36.9	0.000	4.0	3.6	3.9	VC	
93	3/17/2006	2030	2910.2	8547.9	8	50	100	21.1	19.8	19.3	36.5	36.5	36.5	0.000	6.9	7.0	6.5	VC	
94	3/17/2006	2121	2910.0	8545.5	8	47	94	20.8	19.9	19.5	36.5	36.5	36.5	0.000	7.4	7.1	6.6	VC	
95	3/17/2006	2207	2910.3	8544.4	8	44	89	21.0	19.8	19.5	36.5	36.5	36.5	0.000	6.5	7.1	6.7	VC	
96	3/18/2006	1344	2910.7	8545.9	8	48	95	20.3	20.0	19.6	36.5	36.5	36.5	0.000	7.4	7.4	6.9	VC	
97	3/18/2006	1435	2910.9	8545.9	8	48	97	20.3	20.0	19.6	36.5	36.5	36.5	0.000	7.3	7.4	6.9	VC	
98	3/18/2006	1532	2911.8	8545.7	8	50	100	20.4	20.2	19.5	36.5	36.5	36.5	0.000	7.3	7.4	6.8	VC	
99	3/18/2006	1635	2913.6	8544.4	8	44	88	20.5	20.2	19.4	36.5	36.5	36.5	0.000	7.3	7.4	6.7	VC	
100	3/18/2006	1721	2913.5	8543.1	8	42	85	20.5	20.2	19.5	36.5	36.5	36.5	0.000	7.3	7.4	6.8	VC	
101	3/18/2006	1823	2914.7	8540.5	8	32	65	20.1	19.9	19.6	36.5	36.5	36.5	0.000	7.4	7.4	7.0		
102	3/18/2006	1918	2914.8	8537.5	8	30	61	20.3	20.0	19.7	36.5	36.5	36.5	0.000	7.3	7.5	7.1		
103	3/18/2006	2008	2916.5	8538.6	8	28	57	20.4	19.9	19.6	36.5	36.5	36.5	0.000	7.4	7.5	7.0		
104	3/18/2006	2055	2916.1	8539.4	8	28	56	20.3	19.9	19.6	36.5	36.5	36.5	0.000	7.3	7.5	7.1		
105	3/27/2006	1235	2813.7	8444.3	6	36	72	19.6	19.0	18.8	36.5	36.5	36.5	0.000	7.4	7.0	6.9	VC	
106	3/27/2006	1324	2813.6	8444.4	6	38	76	19.6	19.0	18.8	36.5	36.5	36.5	0.000	7.2	7.0	6.9	VC	
107	3/27/2006	1410	2813.6	8444.3	6	38	76	19.6	19.0	18.8	36.5	36.5	36.5	0.000	7.2	6.9	6.8	VC	

Table 2. Selected environmental parameters (continued)

CARETTA, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
108	3/27/2006	1503	2812.6	8443.2	6	34	69	20.2	19.5	18.8	36.5	36.5	36.5	0.000	7.3	7.3	6.9	VC	
109	3/27/2006	1552	2812.4	8443.1	6	34	69	20.2	19.5	18.8	36.5	36.5	36.5	0.000	7.3	7.3	6.9	VC	
110	3/27/2006	1640	2812.4	8443.2	6	34	67	20.3	19.5	18.8	36.5	36.5	36.5	0.000	7.2	7.3	6.9	VC	
111	3/27/2006	1731	2812.3	8443.0	6	34	69	20.4	19.5	18.8	36.5	36.5	36.5	0.000	7.2	7.2	6.9	VC	
112	3/27/2006	1820	2812.1	8442.9	6	35	70	20.5	19.6	18.8	36.5	36.5	36.5	0.000	7.2	7.4	6.9	VC	
113	3/27/2006	1915	2812.9	8440.4	6	35	70	20.7	20.0	18.9	36.6	36.5	36.5	0.000	7.3	7.3	6.8	VC	
114	3/27/2006	2002	2812.7	8439.4	6	36	71	20.8	20.1	18.9	36.5	36.5	36.5	0.000	7.2	7.3	6.9	VC	
115	3/27/2006	2058	2811.1	8441.9	6	38	77	20.7	19.9	18.9	36.6	36.5	36.5	0.000	7.2	7.4	6.8	VC	
116	3/27/2006	2147	2809.6	8441.1	6	40	79	20.8	20.0	18.9	36.5	36.5	36.4	0.000	7.2	7.3	6.7	VC	
117	3/27/2006	2236	2808.1	8442.5	6	42	83	20.7	19.9	18.8	36.5	36.5	36.4	0.000	7.2	7.4	6.4	VC	
118	3/28/2006	1234	2809.6	8444.1	6	38	77	20.4	20.2	18.9	36.5	36.5	36.5	0.000	7.2	7.3	6.7	VC	
119	3/28/2006	1338	2807.0	8443.4	6	38	77	20.3	20.2	18.7	36.6	36.5	36.4	0.000	7.2	6.9	6.2	VC	
120	3/28/2006	1431	2807.5	8444.9	6	42	85	20.3	19.7	18.7	36.5	36.5	36.4	0.000	7.2	7.4	6.1	VC	
121	3/28/2006	1521	2807.8	8445.3	6	42	83	20.4	19.6	18.7	36.5	36.5	36.4	0.000	7.2	7.4	6.2	VC	
122	3/28/2006	1611	2809.3	8446.5	6	44	88	20.0	19.4	18.9	36.5	36.5	36.5	0.000	7.3	7.2	6.8	VC	
123	3/28/2006	1659	2810.0	8447.1	6	45	90	20.0	19.7	18.8	36.5	36.5	36.5	0.000	7.4	7.5	6.7	VC	
124	3/28/2006	1801	2813.6	8447.4	6	40	79	20.1	19.5	19.2	36.5	36.5	36.5	0.000	7.4	7.4	7.1	VC	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	5/25/2006	1417	2558.8	8338.4	3		34	68	25.8	24.3	20.5	36.5	36.6	36.4	0.000	6.4	6.8	6.4	VC
2	5/25/2006	1511	2557.3	8339.0	3		34	69	25.9	24.2	20.6	36.6	36.5	36.4	0.000	6.4	6.8	6.5	VC
3	5/25/2006	1616	2555.9	8337.8	3		35	70	26.2	24.5	20.5	36.5	36.6	36.4	0.000	6.4	6.8	6.5	VC
4	5/25/2006	1659	2555.9	8337.8	3														TR
5	5/25/2006	1753	2552.5	8338.1	3		34	68	26.3	24.6	20.6	36.5	36.6	36.4	0.000	6.4	6.7	6.5	VC
6	5/25/2006	1951	2554.3	8337.2	3		34	67	26.5	24.7	20.5	36.5	36.6	36.4	0.000	6.4	6.7	6.4	VC
7	5/25/2006	2112	2556.8	8337.5	3		34	68	26.5	24.5	20.5	36.5	36.6	36.4	0.000	6.4	6.7	6.4	VC
8	5/25/2006	2249	2552.0	8339.7	3		37	74	26.4	23.7	20.6	36.5	36.6	36.4	0.000	6.3	6.8	6.4	VC
9	5/26/2006	1256	2548.5	8339.3	3		40	81	26.2	23.5	20.4	36.5	36.6	36.4	0.000	6.3	6.9	6.2	VC
10	5/26/2006	1438	2543.8	8336.7	3		38	75	26.3	23.8	20.8	36.5	36.6	36.4	0.000	6.4	6.9	6.4	
11	5/26/2006	1559	2545.5	8339.7	3		41	82	26.3	23.0	20.5	36.5	36.6	36.4	0.000	6.4	6.9	6.2	
12	5/26/2006	1643	2545.5	8339.7	3														TR
13	5/26/2006	1850	2540.9	8336.2	3		38	76	26.9	23.9	20.8	36.4	36.5	36.4	0.000	6.4	6.8	6.4	
14	5/26/2006	2031	2547.8	8339.1	3		38	76	26.6	23.9	20.5	36.5	36.6	36.4	0.000	6.4	6.8	6.3	VC
15	5/28/2006	1203	2440.2	8300.9	2		10	19	26.4	26.1	26.1	36.5	36.5	36.5	0.000	6.2	6.2	6.2	VC
16	5/28/2006	1249	2440.6	8302.6	2		10	20	26.4	26.3	26.0	36.5	36.5	36.5	0.000	6.2	6.2	6.1	VC
17	5/28/2006	1336	2441.6	8301.4	2		12	23	26.4	26.3	25.3	36.4	36.5	36.5	0.000	6.1	6.2	6.0	VC
18	5/28/2006	1424	2441.1	8302.8	2		10	21	26.5	26.3	26.1	36.5	36.5	36.5	0.000	6.2	6.1	6.0	VC
19	5/28/2006	1512	2440.6	8303.3	2		10	19	26.5	26.3	26.2	36.5	36.5	36.5	0.000	6.2	6.2	6.1	VC
20	5/28/2006	1559	2440.1	8304.4	2		10	20	26.6	26.3	26.3	36.5	36.5	36.5	0.000	6.1	6.0	6.1	VC
21	5/28/2006	1647	2440.4	8304.8	2		10	21	26.6	26.4	26.3	36.5	36.5	36.5	0.000	6.2	6.1	6.1	VC
22	5/28/2006	1741	2442.0	8303.1	2		10	20	27.0	26.4	26.2	36.4	36.5	36.5	0.000	6.2	6.2	6.3	VC
23	5/28/2006	1828	2442.1	8302.2	2		10	21	27.0	26.4	26.4	36.5	36.5	36.5	0.000	6.2	6.2	6.3	VC
24	5/28/2006	1920	2441.7	8259.8	2		11	22	27.0	26.6	26.4	36.5	36.5	36.5	0.000	6.2	6.3	6.4	VC
25	5/28/2006	2008	2442.4	8258.9	2		13	26	27.1	26.4	24.6	36.5	36.5	36.5	0.000	6.3	6.4	6.8	VC
26	5/29/2006	1321	2525.2	8339.1	3		40	79	27.0	24.2	20.5	36.5	36.5	36.5	0.000	6.3	6.7	5.7	VC
27	5/29/2006	1523	2521.4	8339.4	3		39	78	27.0	24.7	20.5	36.5	36.5	36.5	0.000	6.3	6.6	5.6	VC

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																				
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR	
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX		
28	5/29/2006	1605	2521.4	8339.4	3															TR
29	5/29/2006	1820	2526.4	8337.7	3		38	76	27.2	24.9	20.6	36.5	36.5	36.5	0.000	6.3	6.7	5.8		VC
30	5/29/2006	2059	2521.9	8339.7	3		40	81	27.5	24.4	20.4	36.5	36.5	36.5	0.000	6.3	6.6	5.5		VC
31	5/29/2006	2224	2520.1	8337.7	3		38	75	27.6	24.8	20.7	36.5	36.5	36.5	0.000	6.2	6.5	5.8		VC
32	5/30/2006	1243	2502.3	8339.2	3		38	75	26.9	22.9	20.4	36.5	36.5	36.5	0.000	6.3	6.9	5.4		VC
33	5/30/2006	1409	2502.6	8338.1	3		35	70	27.0	24.0	20.5	36.5	36.5	36.5	0.000	6.3	6.8	5.5		VC
34	5/30/2006	1543	2503.1	8338.5	3		36	73	27.1	22.9	20.5	36.6	36.5	36.5	0.000	6.3	6.9	5.4		VC
35	5/30/2006	1743	2509.7	8338.4	3		38	76	27.4	23.2	20.6	36.5	36.5	36.5	0.000	6.3	6.9	5.7		VC
36	5/30/2006	1829	2509.6	8338.4	3															TR
37	5/30/2006	1949	2508.3	8338.6	3		38	75	27.6	23.2	20.6	36.5	36.5	36.5	0.000	6.2	6.9	5.6		
38	5/30/2006	2123	2501.4	8338.9	3		36	72	27.6	23.0	20.5	36.5	36.6	36.5	0.000	6.3	6.9	5.6		
39	5/31/2006	1405	2449.9	8340.5	2		33	66	26.9	23.7	20.9	36.5	36.5	36.5	0.000	6.2	6.8	6.2		VC
40	5/31/2006	1504	2449.5	8340.6	2		32	63	26.9	23.8	20.9	36.5	36.5	36.5	0.000	6.2	6.8	6.2		VC
41	5/31/2006	1546	2449.5	8340.6	2															TR
42	5/31/2006	1601	2449.8	8340.8	2		35	70	27.0	23.3	20.9	36.5	36.6	36.5	0.000	6.2	6.7	6.2		VC
43	5/31/2006	1735	2447.7	8340.6	2		32	65	27.3	23.9	20.8	36.5	36.5	36.5	0.000	6.2	6.8	6.2		VC
44	5/31/2006	1823	2446.7	8340.5	2		33	66	27.3	23.4	20.9	36.5	36.5	36.5	0.000	6.2	6.8	6.4		VC
45	5/31/2006	1914	2446.4	8341.4	2		32	64	27.5	23.8	21.0	36.5	36.5	36.5	0.000	6.3	6.8	6.2		VC
46	5/31/2006	2005	2445.2	8341.8	2		32	65	27.4	24.0	21.1	36.5	36.5	36.5	0.000	6.3	6.8	6.3		VC
47	5/31/2006	2050	2444.0	8342.5	2		34	67	27.4	23.6	20.9	36.5	36.5	36.5	0.000	6.2	6.8	6.1		VC
48	6/1/2006	1156	2439.9	8305.1	2		10	21	27.0	27.0	27.0	36.5	36.5	36.5	0.000	6.1	6.1	6.1		VC
49	6/1/2006	1241	2439.0	8303.9	2		8	15	27.0	27.0	27.0	36.5	36.5	36.5	0.000	6.1	6.1	6.1		VC
50	6/1/2006	1328	2438.4	8304.6	2		8	15	27.1	26.9	26.8	36.5	36.5	36.5	0.000	6.2	6.2	6.1		VC
51	6/1/2006	1414	2437.6	8304.7	2		8	15	27.3	26.8	26.7	36.5	36.5	36.5	0.000	6.1	6.2	6.2		VC
52	6/1/2006	1501	2436.3	8305.7	2		14	27	27.3	26.6	24.4	36.5	36.5	36.5	0.000	6.1	6.2	6.8		VC
53	6/1/2006	1548	2436.9	8303.8	2		7	14	27.4	27.0	26.6	36.5	36.5	36.5	0.000	6.1	6.1	6.5		VC
54	6/1/2006	1635	2437.9	8302.1	2		7	14	27.3	27.0	26.9	36.5	36.5	36.5	0.000	6.2	6.3	6.3		VC

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	6/1/2006	1720	2439.2	8301.9	2		11	22	27.9	27.0	27.0	36.5	36.5	36.5	0.000	6.1	6.2	6.2	VC
56	6/1/2006	1805	2439.1	8301.3	2		10	21	27.4	27.0	26.6	36.5	36.5	36.5	0.000	6.2	6.2	6.2	VC
57	6/1/2006	1859	2440.7	8259.0	2		14	29	27.4	26.9	25.5	36.5	36.5	36.5	0.000	6.2	6.2	6.5	VC
58	6/1/2006	1952	2441.3	8258.0	2		16	31	27.4	26.9	25.4	36.5	36.5	36.5	0.000	6.2	6.2	6.5	VC
59	6/1/2006	2039	2440.4	8258.1	2		16	33	27.8	26.9	25.3	36.5	36.5	36.5	0.000	6.2	6.3	6.5	VC
60	6/1/2006	2121	2440.3	8258.3	2		16	32	27.8	26.9	25.4	36.5	36.5	36.5	0.000	6.2	6.3	6.6	VC
61	6/1/2006	2205	2438.5	8258.1	2		12	25	27.6	27.0	26.5	36.5	36.5	36.5	0.000	6.2	6.3	6.5	VC
62	6/1/2006	2249	2437.9	8258.2	2		12	25	27.8	27.0	26.6	36.5	36.5	36.5	0.000	6.2	6.3	6.4	VC
63	6/2/2006	1202	2431.8	8252.7	2		11	22	27.7	27.1	25.2	36.5	36.5	36.5	0.000	6.1	6.2	6.5	VC
64	6/2/2006	1259	2431.6	8256.2	2		10	19	27.6	27.2	26.0	36.5	36.5	36.5	0.000	6.1	6.1	6.3	VC
65	6/2/2006	1345	2432.1	8257.2	2		11	22	27.6	26.9	25.3	36.5	36.5	36.5	0.000	6.1	6.2	6.4	VC
66	6/2/2006	1443	2435.3	8259.0	2		10	19	27.4	27.1	26.5	36.5	36.5	36.5	0.000	6.1	6.1	6.3	VC
67	6/2/2006	1527	2435.5	8259.7	2		13	26	27.3	27.2	25.7	36.5	36.5	36.5	0.000	6.2	6.2	6.4	VC
68	6/2/2006	1613	2435.7	8259.4	2		8	16	27.5	27.3	26.1	36.5	36.5	36.5	0.000	6.2	6.2	6.5	VC
69	6/2/2006	1659	2437.1	8259.1	2		12	25	27.4	27.0	25.9	36.5	36.5	36.5	0.000	6.2	6.3	6.3	VC
70	6/2/2006	1806	2441.3	8255.7	2		6	12	27.3	27.0	27.1	36.5	36.5	36.5	0.000	6.3	6.4	6.5	VC
71	6/2/2006	1850	2442.4	8254.8	2		10	19	28.0	26.9	26.7	36.5	36.5	36.5	0.000	6.2	6.3	6.6	VC
72	6/2/2006	1933	2442.7	8254.6	2		15	30	28.0	26.7	25.1	36.6	36.5	36.5	0.000	6.2	6.3	6.5	VC
73	6/2/2006	2029	2443.7	8248.9	2		11	22	27.5	27.1	26.2	36.5	36.5	36.5	0.000	6.4	6.4	6.5	VC
74	6/2/2006	2114	2443.6	8248.7	2		8	17	27.5	27.1	26.4	36.5	36.5	36.5	0.000	6.4	6.4	6.5	
75	6/2/2006	2155	2444.2	8247.6	2		12	24	27.8	26.8	26.0	36.6	36.5	36.5	0.000	6.3	6.4	6.4	VC
76	6/2/2006	2238	2443.2	8246.4	2														VC
77	6/3/2006	1154	2442.9	8246.4	2		12	25	27.4	27.1	26.0	36.5	36.5	36.5	0.000	6.2	6.3	6.2	VC
78	6/3/2006	1238	2442.5	8246.6	2		8	15	27.4	27.2	27.0	36.5	36.5	36.5	0.000	6.2	6.2	6.1	VC
79	6/3/2006	1327	2442.3	8246.2	2		14	27	27.4	27.1	25.9	36.5	36.5	36.5	0.000	6.2	6.2	6.3	VC
80	6/3/2006	1411	2442.2	8246.0	2		14	27	27.7	26.9	25.8	36.5	36.5	36.5	0.000	6.2	6.3	6.2	VC
81	6/3/2006	1458	2440.8	8245.8	2		13	26	27.9	26.8	25.8	36.6	36.5	36.5	0.000	6.2	6.3	6.4	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	6/8/2006	1208	2743.3	8409.6	5	26	52	26.6	25.2	21.8	36.6	36.6	36.5	0.000	5.9	6.6	6.6		
83	6/8/2006	1257	2744.2	8409.3	5	26	51	26.6	25.3	21.8	36.7	36.6	36.5	0.000	6.3	6.6	6.6		
84	6/8/2006	1352	2744.3	8409.1	5	26	51	26.7	25.2	21.8	36.7	36.6	36.5	0.000	6.3	6.6	6.7		
85	6/8/2006	1443	2744.6	8409.5	5	26	51	26.7	24.9	21.8	36.7	36.6	36.5	0.000	6.3	6.6	6.7		
86	6/8/2006	1533	2744.9	8410.1	5	26	51	26.8	24.7	21.8	36.7	36.7	36.5	0.000	6.3	6.6	6.7		
87	6/8/2006	1631	2746.2	8409.7	5	24	49	26.9	25.2	21.8	36.7	36.6	36.5	0.000	6.3	6.6	6.7		
88	6/8/2006	1725	2747.0	8409.7	5	26	51	26.9	24.9	21.8	36.7	36.7	36.5	0.000	6.3	6.7	6.7		
89	6/8/2006	1815	2746.9	8409.6	5													TR	
90	6/8/2006	1835	2747.2	8409.6	5	24	48	27.4	25.1	21.9	36.7	36.7	36.5	0.000	6.3	6.6	6.8		
91	6/8/2006	1953	2747.8	8409.1	5	25	50	27.3	24.6	21.8	36.7	36.7	36.5	0.000	6.3	6.7	6.7		
92	6/8/2006	2047	2747.8	8408.5	5	26	52	27.1	24.4	21.8	36.7	36.7	36.5	0.000	6.3	6.7	6.8		
93	6/9/2006	1229	2805.2	8437.4	6	39	78	27.2	22.2	19.8	36.1	36.4	36.5	0.000	6.3	6.9	5.8		
94	6/9/2006	1319	2806.4	8437.3	6	38	76	27.2	22.7	19.7	36.1	36.4	36.4	0.000	6.3	6.9	5.5		
95	6/9/2006	1437	2806.5	8438.9	6													VC	
96	6/9/2006	1539	2807.7	8438.5	6													VC	
97	6/9/2006	1629	2807.9	8437.0	6													VC	
98	6/9/2006	1720	2808.4	8436.9	6													VC	
99	6/9/2006	1806	2808.5	8437.9	6													VC	
100	6/9/2006	1904	2808.6	8439.2	6													VC	
101	6/9/2006	1955	2809.5	8438.2	6													VC	
102	6/9/2006	2045	2809.8	8438.7	6													VC	
103	6/9/2006	2130	2809.9	8437.4	6													VC	
104	6/10/2006	1157	2814.1	8408.9	6													VC	
105	6/10/2006	1246	2814.1	8409.0	6													VC	
106	6/10/2006	1337	2815.1	8407.9	6													VC	
107	6/10/2006	1427	2815.3	8406.9	6													VC	
108	6/10/2006	1511	2815.3	8406.9	6													TR	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																				
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR	
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX		
109	6/10/2006	1524	2815.8	8405.6	6															VC
110	6/10/2006	1628	2816.0	8408.0	6															VC
111	6/10/2006	1712	2816.4	8407.1	6															VC
112	6/10/2006	1803	2816.9	8406.4	6															VC
113	6/10/2006	1900	2818.6	8410.0	6															VC
114	6/10/2006	1959	2819.1	8407.1	6															VC
115	6/10/2006	2046	2819.1	8407.1	6															TR
116	6/10/2006	2055	2819.5	8408.2	6															VC
117	6/10/2006	2203	2820.0	8406.1	6															VC
118	6/15/2006	1507	2939.9	8611.2	9															VC
119	6/15/2006	1604	2939.3	8613.6	9															VC
120	6/15/2006	1657	2938.5	8616.6	9															VC
121	6/15/2006	1745	2938.5	8616.5	9															TR
122	6/15/2006	1756	2938.5	8616.8	9															VC
123	6/15/2006	1907	2938.0	8613.8	9															VC
124	6/15/2006	1953	2938.6	8612.9	9															VC
125	6/15/2006	2046	2938.6	8610.5	9															VC
126	6/16/2006	1515	2938.6	8616.8	9		34	67	27.6	23.9	21.1	34.0	36.5	36.4	0.000	6.2	6.6	6.3		VC
127	6/16/2006	1605	2939.7	8614.7	9		32	63	27.6	24.9	22.2	34.3	36.5	36.4	0.000	6.2	6.5	6.4		VC
128	6/16/2006	1646	2939.7	8614.7	9															TR
129	6/16/2006	1736	2939.4	8613.7	9		30	60	27.5	25.5	22.4	34.4	36.5	36.4	0.000	6.2	6.5	6.5		VC
130	6/16/2006	1829	2938.3	8613.4	9		32	63	27.5	24.8	22.3	34.4	36.5	36.4	0.000	6.3	6.5	6.5		VC
131	6/16/2006	1922	2938.6	8610.3	9		29	58	28.2	25.0	22.9	34.6	36.4	36.3	0.000	6.2	6.5	6.5		VC
132	6/18/2006	2033	2842.9	8426.5	6		19	38	26.4	25.7	25.4	36.5	36.4	36.5	0.000	6.1	6.3	6.2		
133	6/18/2006	2126	2842.5	8427.1	6		16	33	26.4	25.9	25.4	36.5	36.5	36.5	0.000	6.1	6.2	6.2		
134	6/18/2006	2214	2842.2	8427.5	6		18	35	26.5	25.9	25.4	36.5	36.5	36.5	0.000	6.0	6.2	6.2		
135	6/18/2006	2253	2842.1	8427.4	6															TR

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
136	6/18/2006	2302	2841.9	8427.7	6		19	38	26.3	25.8	25.4	36.5	36.5	36.5	0.000	6.0	6.2	6.2	
137	6/19/2006	1159	2842.0	8427.2	6		18	35	26.1	25.8	25.4	36.5	36.5	36.5	0.000	5.9	6.1	6.1	
138	6/19/2006	1245	2841.3	8427.2	6		18	36	26.1	25.9	25.4	36.5	36.5	36.5	0.000	5.8	6.2	6.2	
139	6/19/2006	1338	2840.4	8427.7	6		18	37	26.2	25.8	25.4	36.4	36.5	36.5	0.000	6.0	6.2	6.3	
140	6/19/2006	1447	2842.1	8423.6	6		16	31	26.3	26.0	25.4	36.5	36.4	36.5	0.000	6.0	6.2	6.0	
141	6/19/2006	1531	2841.3	8423.7	6		16	33	26.3	26.0	25.4	36.5	36.4	36.5	0.000	6.0	6.2	6.1	
142	6/19/2006	1608	2841.3	8423.6	6														TR
143	6/19/2006	1616	2841.1	8423.2	6		14	27	26.2	25.5	25.4	36.5	36.5	36.5	0.000	6.1	6.1	6.0	
144	6/19/2006	1658	2840.9	8423.9	6		16	31	26.3	25.9	25.5	36.5	36.4	36.5	0.000	5.9	6.2	6.1	
145	6/19/2006	1744	2840.6	8424.2	6		17	34	26.5	25.9	25.4	36.5	36.5	36.5	0.000	5.9	6.2	6.1	
146	6/19/2006	1907	2837.4	8415.5	6		14	28	26.4	25.4	25.2	36.5	36.5	36.5	0.000	5.9	6.3	6.2	
147	6/19/2006	2007	2837.3	8415.2	6		14	27	26.4	25.6	25.2	36.5	36.4	36.5	0.000	5.5	6.2	6.2	VC
148	6/19/2006	2103	2835.6	8415.5	6		13	26	27.1	26.0	25.4	36.5	36.5	36.5	0.000	6.1	6.2	6.1	VC
149	6/19/2006	2146	2835.6	8415.5	6														TR
150	6/19/2006	2152	2835.4	8415.3	6		14	29	27.3	25.9	25.5	36.6	36.5	36.5	0.000	5.1	6.2	6.1	VC
151	6/19/2006	2236	2834.3	8415.3	6		14	28	26.8	25.9	25.5	36.6	36.5	36.5	0.000	5.1	6.1	6.1	VC
152	6/19/2006	2317	2833.7	8416.3	6		19	38	26.5	25.5	25.4	36.5	36.5	36.5	0.000	5.3	6.1	6.1	VC
153	6/20/2006	1154	2833.5	8415.7	6		14	28	26.6	26.2	25.5	36.5	36.5	36.5	0.000	6.0	6.1	5.9	
154	6/20/2006	1244	2833.3	8413.9	6		14	29	26.5	26.1	25.6	36.5	36.5	36.5	0.000	4.9	6.0	5.9	
155	6/20/2006	1332	2832.7	8415.3	6		14	28	26.4	26.2	25.6	36.5	36.5	36.5	0.000	5.6	6.1	5.9	
156	6/20/2006	1424	2831.2	8418.4	6		13	26	26.8	26.2	25.7	36.5	36.5	36.5	0.000	5.8	6.1	6.0	
157	6/20/2006	1508	2831.1	8418.4	6														TR
158	6/20/2006	1525	2831.4	8418.7	6		18	36	26.6	25.9	25.5	36.5	36.5	36.5	0.000	5.9	6.1	6.0	
159	6/20/2006	1636	2830.9	8415.2	6		14	27	26.6	25.8	25.6	36.6	36.5	36.5	0.000	5.4	6.1	6.0	
160	6/20/2006	1725	2829.7	8418.0	6		14	28	27.2	26.1	25.7	36.6	36.5	36.5	0.000	5.3	6.1	6.0	
161	6/20/2006	1812	2829.1	8418.0	6		14	28	27.3	25.8	25.8	36.5	36.5	36.5	0.000	5.4	6.1	6.1	
162	6/20/2006	1855	2829.1	8417.9	6														TR

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
163	6/20/2006	1902	2829.1	8418.5	6	15	30	27.2	26.1	25.8	36.5	36.5	36.5	0.000	5.4	6.1	6.2		
164	6/20/2006	2020	2828.1	8416.5	6	14	27	27.7	26.0	25.7	36.5	36.5	36.5	0.000	5.9	6.1	6.2		
165	6/20/2006	2104	2828.4	8415.0	6	19	38	27.0	25.9	25.7	36.9	36.5	36.5	0.000	5.2	6.2	6.1		
166	6/20/2006	2147	2828.1	8414.2	6	18	35	27.3	25.7	25.7	36.7	36.5	36.5	0.000	5.4	6.1	6.1		
167	6/20/2006	2231	2827.3	8415.4	6	16	31	27.5	25.8	25.7	36.7	36.5	36.5	0.000	4.5	6.1	6.1		
168	6/20/2006	2317	2826.6	8416.8	6	14	28	27.5	26.0	25.8	36.7	36.5	36.5	0.000	5.1	6.1	6.1		
169	6/21/2006	1153	2825.1	8414.0	6	18	35	26.9	25.8	25.6	36.5	36.5	36.5	0.000	5.5	6.1	5.9		
170	6/21/2006	1258	2826.3	8419.4	6	17	34	27.2	25.8	25.3	36.5	36.5	36.5	0.000	5.5	6.1	6.0		
171	6/21/2006	1355	2829.0	8418.6	6	14	29	27.0	26.0	25.7	36.5	36.5	36.5	0.000	5.4	6.1	6.0		
172	6/21/2006	1444	2829.2	8419.5	6	19	38	27.2	25.8	25.6	36.6	36.5	36.5	0.000	4.8	6.1	6.0		
173	6/21/2006	1536	2831.3	8421.3	6	14	29	27.2	26.0	25.5	36.5	36.5	36.5	0.000	5.4	6.1	6.0		
174	6/21/2006	1639	2834.9	8420.7	6	14	28	27.5	26.0	25.6	36.6	36.5	36.5	0.000	4.8	6.1	5.9		
175	6/21/2006	1724	2835.0	8420.3	6	16	31	27.6	25.8	25.7	36.6	36.5	36.5	0.000	5.8	6.1	6.0	VC	
176	6/21/2006	1813	2836.7	8420.3	6	13	26	27.5	26.2	25.6	36.5	36.4	36.5	0.000	5.8	6.1	6.1	VC	
177	6/21/2006	1856	2836.7	8420.3	6													TR	
178	6/21/2006	1902	2836.7	8420.8	6	16	33	27.2	26.1	25.6	36.5	36.5	36.5	0.000	5.9	6.2	6.1	VC	
179	6/21/2006	2016	2836.0	8423.6	6	18	36	27.9	26.1	25.5	36.5	36.5	36.5	0.000	5.7	6.2	6.2		
180	6/21/2006	2058	2837.6	8422.3	6	14	28	27.8	25.7	25.6	36.6	36.5	36.5	0.000	5.3	6.2	6.1		
181	6/21/2006	2149	2838.2	8422.0	6	14	29	28.1	26.1	25.6	36.5	36.4	36.5	0.000	5.5	6.3	6.2		
182	6/21/2006	2243	2838.7	8422.5	6	14	29	27.8	25.9	25.7	36.5	36.4	36.5	0.000	4.6	6.2	6.0		
183	6/21/2006	2322	2837.6	8423.8	6	18	36	27.3	25.7	25.6	36.5	36.5	36.5	0.000	5.1	6.2	6.1		
184	6/22/2006	1214	2830.9	8454.9	6	34	69	27.3	25.6	21.3	36.0	36.3	36.5	0.000	5.2	6.3	5.8	VC	
185	6/22/2006	1304	2830.9	8455.2	6	37	74	27.4	25.5	20.9	36.1	36.2	36.5	0.000	5.7	6.3	5.7	VC	
186	6/22/2006	1348	2830.9	8455.2	6													TR	
187	6/22/2006	1405	2831.0	8455.3	6	38	75	27.5	25.6	20.9	36.0	36.2	36.5	0.000	5.8	6.4	5.7	VC	
188	6/22/2006	1509	2831.6	8455.9	6	36	73	27.6	25.4	21.1	35.8	36.3	36.4	0.000	5.9	6.3	5.8		
189	6/22/2006	1559	2832.1	8456.0	6	35	70	27.7	25.3	21.6	35.7	36.3	36.5	0.000	5.3	6.3	6.0		

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
190	6/22/2006	1650	2832.9	8457.1	6		38	76	27.6	25.1	20.7	35.4	36.4	36.4	0.000	5.6	6.4	5.7	
191	6/22/2006	1736	2832.9	8456.7	6		36	73	27.7	25.3	21.6	35.5	36.4	36.4	0.000	5.2	6.4	6.1	
192	6/22/2006	1823	2833.8	8457.5	6		38	75	28.0	25.2	21.4	35.5	36.4	36.4	0.000	5.7	6.4	6.0	
193	6/22/2006	1926	2837.8	8459.6	6		34	67	27.8	25.0	20.4	35.5	36.2	36.4	0.000	5.7	6.5	5.8	VC
194	6/22/2006	2015	2838.9	8459.8	6		32	65	28.0	25.1	20.3	35.6	36.2	36.5	0.000	6.0	6.5	5.8	VC
195	6/27/2006	1536	2919.8	8556.6	8		35	70	29.0	24.3	19.4	34.2	36.0	36.4	0.000	5.9	6.5	4.8	
196	6/27/2006	1635	2919.1	8558.1	8		42	83	29.1	22.6	18.7	34.1	36.2	36.3	0.000	5.3	6.3	4.5	
197	6/27/2006	1727	2918.9	8557.9	8		41	82	29.1	22.7	18.7	34.1	36.2	36.4	0.000	5.5	6.3	4.6	VC
198	6/27/2006	1821	2918.9	8558.1	8		42	84	29.2	22.5	18.6	34.1	36.2	36.4	0.000	5.4	6.2	4.5	VC
199	6/27/2006	1917	2918.9	8557.5	8		44	88	29.3	22.5	17.6	34.1	36.3	36.3	0.000	5.5	6.3	4.1	VC
200	6/27/2006	2015	2918.9	8553.5	8		32	63	29.1	24.5	19.7	34.1	36.0	36.4	0.000	5.4	6.5	4.9	
201	6/27/2006	2104	2918.0	8552.3	8		32	64	29.2	24.8	19.7	34.1	36.1	36.4	0.000	5.9	6.4	5.1	
202	6/27/2006	2158	2918.4	8556.0	8														VC
203	6/28/2006	2224	2858.5	8521.5	8														VC
204	6/28/2006	2311	2859.1	8522.1	8														VC
205	6/28/2006	2332	2858.5	8521.5	8														TR
206	6/29/2006	1146	2855.1	8527.4	8														VC
207	6/29/2006	1246	2859.2	8526.6	8														VC
208	6/29/2006	1341	2859.6	8526.8	8														VC
209	6/29/2006	1424	2859.6	8526.8	8														TR
210	6/29/2006	1435	2859.4	8528.3	8														VC
211	6/29/2006	1540	2859.5	8528.8	8														VC
212	6/29/2006	1632	2859.1	8528.8	8														VC
213	6/29/2006	1721	2859.0	8528.8	8														VC
214	6/29/2006	1811	2858.9	8529.4	8														VC
215	6/29/2006	2025	2858.7	8529.6	8														VC
216	6/29/2006	2116	2858.7	8530.0	0														VC

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
217	6/30/2006	1155	2909.8	8543.8	8														VC
218	6/30/2006	1244	2909.8	8543.9	8														VC
219	6/30/2006	1332	2909.8	8544.9	8														VC
220	6/30/2006	1420	2909.6	8546.0	8														VC
221	6/30/2006	1513	2908.8	8546.1	8														VC
222	6/30/2006	1604	2908.7	8546.2	8														VC
223	6/30/2006	1652	2908.3	8546.7	8														VC
224	6/30/2006	1739	2908.4	8547.0	8														VC
225	6/30/2006	1829	2908.3	8547.2	8														VC
226	6/30/2006	1916	2908.3	8547.2	8														VC
227	6/30/2006	2008	2908.4	8547.3	8														VC
228	6/30/2006	2058	2908.2	8547.3	8														VC
229	7/1/2006	2139	3004.8	8642.0	9		28	55	29.6	24.7	20.7	34.0	35.9	36.4	0.000	5.8	6.4	5.7	
230	7/1/2006	2219	3004.8	8641.8	9														TR
231	7/1/2006	2230	3005.1	8642.9	9		28	55	29.6	24.6	20.5	34.0	35.9	36.4	0.000	5.8	6.5	5.4	
232	7/2/2006	1151	3005.2	8643.2	9		29	58	29.2	22.8	21.0	34.1	36.2	36.3	0.000	2.4	6.1	5.6	VC
233	7/2/2006	1239	3005.2	8643.3	9		28	56	29.2	22.8	20.9	34.1	36.2	36.4	0.000	5.8	6.2	5.6	VC
234	7/2/2006	1324	3004.9	8643.3	9		28	55	29.2	23.0	21.2	34.1	36.1	36.4	0.000	5.6	6.2	5.6	VC
235	7/2/2006	1502	3001.7	8644.1	9		48	97	29.1	21.8	18.8	34.1	36.2	36.4	0.000	5.9	5.7	4.2	VC
236	7/2/2006	1628	3007.8	8648.0	9		24	48	29.5	24.9	22.5	34.3	35.6	36.1	0.000	5.8	6.4	6.0	VC
237	7/2/2006	1718	3007.5	8647.8	9		28	55	29.5	23.7	22.5	34.2	35.7	36.1	0.000	5.7	6.1	5.9	VC
238	7/2/2006	1756	3007.5	8647.8	9														TR
239	7/2/2006	1811	3007.4	8647.9	9		28	55	29.4	24.5	21.7	34.2	35.7	36.2	0.000	5.9	6.4	5.3	
240	7/2/2006	1914	3008.2	8649.3	9		21	42	29.5	27.6	22.7	34.3	36.1	36.1	0.000	3.7	6.0	6.1	
241	7/2/2006	2000	3007.9	8649.8	9		24	48	29.5	26.3	22.7	34.2	36.2	36.1	0.000	5.8	6.2	6.0	
242	7/2/2006	2045	3007.6	8649.9	9		26	51	29.4	25.2	22.5	34.2	35.7	36.1	0.000	5.8	6.3	6.0	
243	7/2/2006	2135	3008.1	8650.6	9		22	45	29.5	28.2	22.8	34.2	36.1	36.1	0.000	5.8	6.1	6.1	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
244	7/2/2006	2223	3007.6	8651.5	9	24	48	29.4	27.1	22.6	34.2	36.1	36.1	0.000	5.8	6.0	6.0		
245	7/3/2006	1144	3007.2	8653.9	9	25	50	29.8	23.9	22.6	34.4	35.8	36.1	0.000	5.8	6.3	6.0		
246	7/3/2006	1225	3007.1	8653.8	9														TR
247	7/3/2006	1241	3007.0	8654.4	9	25	50	29.8	24.1	22.6	34.4	35.7	36.1	0.000	5.5	6.3	6.0		
248	7/3/2006	1346	3006.2	8656.5	9	26	51	29.7	23.7	22.4	34.4	35.8	36.1	0.000	5.7	6.1	5.8		
249	7/3/2006	1439	3003.7	8659.1	9	36	73	29.6	25.2	20.0	34.4	36.6	36.4	0.000	5.7	6.3	4.8		
250	7/3/2006	1530	3003.6	8659.2	9	35	70	29.6	25.3	20.1	34.4	36.5	36.5	0.000	5.8	6.3	5.4		
251	7/3/2006	1619	3002.9	8658.6	9	36	71	29.6	25.3	20.2	34.5	36.5	36.4	0.000	5.8	6.3	5.6		
252	7/3/2006	1655	3002.8	8658.6	9														TR
253	7/3/2006	1707	3002.2	8658.6	9	37	74	29.6	25.0	20.0	34.4	36.5	36.4	0.000	5.8	6.3	5.1		
254	7/3/2006	1813	3002.6	8659.5	9	34	67	29.6	25.7	20.7	34.4	36.5	36.3	0.000	5.9	6.3	5.6		
255	7/3/2006	1857	3002.2	8659.7	9	33	66	29.6	25.7	20.9	34.4	36.5	36.3	0.000	5.9	6.4	5.8		
256	7/3/2006	1943	3002.1	8659.9	9	33	66	29.7	25.9	21.0	34.4	36.5	36.3	0.000	5.6	6.4	5.8		
257	7/3/2006	2138	2955.2	8711.6	10	26	53	30.1	25.5	22.1	34.3	36.4	36.3	0.000	5.8	6.2	5.7		
258	7/3/2006	2225	2954.9	8711.6	10	28	57	30.2	24.6	22.0	34.1	36.5	36.3	0.000	5.6	6.3	5.8		
259	7/4/2006	1149	2954.8	8711.6	10	34	68	29.7	24.8	22.0	34.4	36.4	36.3	0.000	5.5	6.2	5.8	VC	
260	7/4/2006	1238	2953.8	8714.2	10	28	57	29.7	26.1	22.3	34.4	36.5	36.3	0.000	5.5	6.3	5.7	VC	
261	7/4/2006	1322	2952.4	8715.0	10	33	66	29.7	24.7	22.1	34.4	36.5	36.3	0.000	5.5	6.2	5.7	VC	
262	7/4/2006	1405	2952.4	8715.0	10														TR
263	7/4/2006	1415	2951.7	8714.9	10	32	65	29.7	25.4	21.6	34.3	36.5	36.3	0.000	5.5	6.2	5.6	VC	
264	7/4/2006	1515	2951.6	8715.6	10	32	64	29.8	25.4	21.9	34.4	36.5	36.3	0.000	5.4	6.2	5.7	VC	
265	7/4/2006	1600	2951.5	8715.7	10	30	60	29.8	25.6	21.9	34.4	36.5	36.3	0.000	5.8	6.3	5.7	VC	
266	7/4/2006	1652	2950.7	8716.5	10	36	71	30.0	23.9	20.5	34.3	36.5	36.3	0.000	5.9	6.2	5.3	VC	
267	7/4/2006	1741	2951.0	8716.6	10	32	65	30.2	24.7	20.9	34.3	36.5	36.5	0.000	5.4	6.2	5.5	VC	
268	7/4/2006	1823	2951.0	8716.6	10														TR
269	7/4/2006	1833	2951.3	8716.7	10	30	61	30.3	25.5	21.2	34.3	36.6	36.3	0.000	5.5	6.3	5.6	VC	
270	7/4/2006	1940	2952.4	8717.8	10	26	53	30.4	26.3	23.6	34.4	36.5	36.4	0.000	5.6	6.3	6.1	VC	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
271	7/4/2006	2213	2933.8	8730.7	10	32	65	30.1	22.9	20.9	33.8	36.5	36.3	0.000	5.8	5.7	5.3		
272	7/4/2006	2300	2934.6	8733.2	10	32	65	30.1	23.2	21.2	33.7	36.5	36.3	0.000	3.6	6.1	5.5		
273	7/5/2006	1152	2930.3	8730.3	10	32	64	29.6	23.2	20.6	33.8	36.1	36.4	0.000	5.6	5.9	5.2	VC	
274	7/5/2006	1253	2932.1	8732.1	10	32	63	29.5	23.8	20.8	33.8	36.4	36.4	0.000	5.4	5.9	5.3	VC	
275	7/5/2006	1339	2932.1	8732.3	10	34	68	29.6	23.4	20.8	33.8	36.5	36.3	0.000	5.6	5.9	5.3	VC	
276	7/5/2006	1432	2933.6	8733.3	10	32	64	29.6	23.7	21.2	33.8	36.4	36.3	0.000	5.8	6.0	5.5	VC	
277	7/5/2006	1514	2933.6	8733.3	10													TR	
278	7/5/2006	1642	2932.1	8736.7	10	28	55	29.8	23.3	21.5	33.8	35.9	36.3	0.000	5.7	6.0	5.4	VC	
279	7/5/2006	1730	2933.2	8737.0	10	26	53	30.1	23.6	21.7	33.8	35.9	36.3	0.000	5.7	6.1	5.3	VC	
280	7/5/2006	1816	2933.2	8737.0	10													TR	
281	7/5/2006	1829	2933.2	8737.2	10	26	53	30.0	23.5	21.7	33.8	36.0	36.3	0.000	5.6	6.1	5.3	VC	
282	7/5/2006	1925	2933.4	8737.4	10	26	51	30.1	24.0	21.8	33.8	36.1	36.3	0.000	5.7	6.1	5.2	VC	
283	7/5/2006	2014	2934.2	8737.3	10	24	49	30.2	23.5	21.8	33.8	36.1	36.2	0.000	5.9	6.2	5.3	VC	
284	7/5/2006	2102	2933.0	8739.4	10	24	48	30.2	25.6	21.8	33.8	36.3	36.3	0.000	5.7	6.2	5.3	VC	
285	7/5/2006	2224	2929.7	8730.8	0														
286	7/6/2006	1155	2929.5	8730.6	0	34	67	29.7	23.1	20.7	34.1	36.5	36.4	0.000	5.6	5.8	5.1		
287	7/6/2006	1244	2928.4	8730.3	0	34	68	29.6	23.0	20.6	34.3	36.3	36.4	0.000	5.6	6.1	5.1		
288	7/6/2006	1334	2929.0	8733.0	0	31	62	29.7	22.6	21.4	33.9	36.0	36.3	0.000	5.6	5.7	5.6		
289	7/6/2006	1423	2927.2	8732.3	0	35	70	29.7	22.8	20.6	34.1	36.0	36.3	0.000	5.4	5.8	5.3		
290	7/6/2006	1523	2926.8	8731.5	0	36	73	29.6	23.0	20.6	33.9	36.1	36.4	0.000	5.8	6.0	5.2		
291	7/6/2006	1612	2926.8	8731.3	0													TR	
292	7/6/2006	1627	2926.5	8731.7	0	32	65	29.6	24.7	20.7	33.9	36.3	36.4	0.000	5.7	6.2	5.4		
293	7/6/2006	1755	2926.7	8735.5	0													TR	
294	7/7/2006	1159	2927.8	8737.9	0	32	65	28.7	23.8	21.1	35.9	36.2	36.3	0.000	5.6	6.0	5.2		

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
SIA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	8/1/2006	2235	2927.8	8737.5	0		36	71	30.3	24.9	19.6	31.1	36.4	36.5	0.000	6.1	6.3	3.7	
2	8/1/2006	2325	2927.0	8735.6	0		30	60	30.4	26.6	20.9	31.3	36.5	36.5	0.000	5.7	6.2	3.9	
3	8/2/2006	21	2926.6	8735.4	0		35	70	30.6	25.5	20.8	31.3	36.4	36.5	0.000	6.1	6.3	3.9	
4	8/2/2006	1318	2923.2	8740.4	0		48	97	30.3	22.7	19.3	30.0	36.4	36.5	0.000	5.9	4.4	3.8	
5	8/2/2006	1411	2923.0	8741.1	0		50	99	30.4	22.6	19.1	30.0	36.4	36.5	0.000	5.8	4.2	3.5	
6	8/2/2006	1517	2921.7	8743.8	0		52	105	30.6	22.5	18.4	30.1	36.4	36.4	0.000	5.8	3.4	3.8	
7	8/2/2006	1613	2920.9	8745.2	0		48	96	30.7	22.4	18.7	30.1	36.4	36.5	0.000	5.8	3.3	4.0	
8	8/2/2006	1701	2921.0	8745.0	0														TR
9	8/2/2006	1716	2920.5	8745.8	0		52	103	31.0	22.4	18.8	30.7	36.4	36.5	0.000	5.9	3.3	4.1	
10	8/2/2006	1820	2920.6	8746.2	0		51	102	30.9	22.3	18.7	31.4	36.4	36.5	0.000	5.9	3.2	4.0	
11	8/2/2006	1929	2925.7	8749.6	0		34	67	30.6	23.6	19.6	32.0	36.4	36.5	0.000	5.8	5.2	3.8	
12	8/2/2006	2019	2923.6	8747.5	0		38	76	30.6	23.2	20.2	32.0	36.4	36.5	0.000	5.8	4.7	3.9	
13	8/2/2006	2108	2924.5	8745.5	0		36	73	30.5	23.5	20.1	32.0	36.4	36.5	0.000	5.8	4.8	3.8	
14	8/2/2006	2157	2926.2	8744.0	0		34	68	31.1	23.8	19.2	31.5	36.4	36.4	0.000	5.8	5.4	3.5	
15	8/2/2006	2242	2927.5	8742.3	0		34	67	31.1	24.4	19.1	30.7	36.6	36.4	0.000	5.9	6.2	3.5	
16	8/2/2006	2332	2927.5	8739.9	0		34	69	31.5	23.9	19.6	30.6	36.4	36.5	0.000	5.9	5.5	3.7	
17	8/3/2006	1317	2933.1	8740.5	10		24	47	30.7	27.2	21.6	30.4	36.4	36.4	0.000	5.8	6.3	4.5	
18	8/3/2006	1403	2932.7	8741.9	10		24	48	30.9	26.7	21.5	31.7	36.4	36.4	0.000	5.7	6.2	4.7	
19	8/3/2006	1447	2932.6	8741.8	10		24	47	30.5	26.6	21.5	31.9	36.4	36.5	0.000	5.8	6.2	4.7	
20	8/3/2006	1528	2932.6	8741.9	10														TR
21	8/3/2006	1542	2932.5	8742.1	10		24	48	30.4	26.6	21.5	32.0	36.4	36.4	0.000	5.8	6.2	4.7	
22	8/3/2006	1648	2932.0	8743.3	10		24	49	30.5	26.2	21.2	32.1	36.3	36.4	0.000	5.7	5.5	4.3	
23	8/3/2006	1735	2932.2	8743.5	10		24	49	30.6	26.2	21.2	32.2	36.3	36.4	0.000	5.7	5.5	4.3	
24	8/3/2006	1826	2932.0	8743.8	10		24	48	30.7	26.2	21.2	32.3	36.3	36.4	0.000	5.7	5.6	4.4	
25	8/3/2006	1911	2931.6	8744.7	10		24	49	30.8	26.0	21.1	32.3	36.2	36.4	0.000	5.7	5.0	3.9	
26	8/3/2006	1957	2931.3	8746.0	10		24	48	31.7	25.5	21.0	32.2	36.3	36.5	0.000	5.7	5.5	3.9	
27	8/3/2006	2045	2930.5	8748.6	10		24	49	31.3	25.5	20.7	32.0	36.2	36.5	0.000	5.8	5.3	3.5	

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	8/4/2006	1317	2913.9	8826.5	11		30	61	30.4	23.7	20.3	29.0	36.4	36.5	0.000	6.3	5.4	4.5	
29	8/4/2006	1413	2914.0	8826.4	11		32	63	30.5	23.2	20.2	28.9	36.4	36.5	0.000	6.4	5.3	4.4	
30	8/4/2006	1507	2914.1	8826.6	11		42	83	30.5	21.9	18.4	28.7	36.5	36.4	0.000	6.5	5.7	4.0	
31	8/4/2006	1556	2914.2	8826.0	11		58	116	30.6	20.6	17.2	28.7	36.5	36.3	0.000	6.3	4.8	3.8	
32	8/4/2006	1646	2914.1	8825.9	11		54	108	30.6	20.9	17.4	29.2	36.5	36.3	0.000	6.3	5.1	3.9	
33	8/4/2006	1737	2914.0	8825.7	11		67	134	30.7	20.0	15.9	29.3	36.5	36.2	0.000	6.4	4.4	3.8	
34	8/4/2006	1825	2914.0	8825.9	11														TR
35	8/4/2006	1840	2913.9	8825.7	11		68	136	30.8	19.5	15.9	29.1	36.5	36.2	0.000	6.5	4.2	3.8	
36	8/4/2006	1946	2913.8	8825.8	11		53	106	30.9	21.1	17.2	29.2	36.5	36.4	0.000	6.6	5.1	3.9	
37	8/4/2006	2059	2915.3	8820.6	11		45	90	30.7	22.6	18.3	30.4	36.5	36.4	0.000	6.3	6.2	3.7	
38	8/4/2006	2143	2915.3	8820.4	11														TR
39	8/4/2006	2157	2915.2	8820.7	11		45	90	31.5	22.5	18.3	31.0	36.6	36.5	0.000	5.4	6.2	3.7	
701	8/9/2006	1326	2910.0	8801.8	11		261	522	29.7	11.9	7.9	35.5	35.4	34.9	0.000	5.7	3.8	3.7	
702	8/9/2006	1505	2910.4	8801.1	11														VC
703	8/9/2006	1630	2910.4	8801.1	11														VC
704	8/9/2006	1759	2910.4	8801.1	11														VC
705	8/9/2006	1923	2909.7	8801.1	11		246	493	30.2	12.1	7.9	35.5	35.5	32.1	0.000	5.7	3.8	3.6	VC
706	8/9/2006	2049	2909.7	8801.1	11														VC
707	8/9/2006	2233	2909.7	8801.1	11														VC
708	8/10/2006	1432	2923.4	8658.8	0		248	495	30.5	12.6	8.3	36.3	35.6	35.0	0.000	5.6	3.7	3.6	VC
709	8/10/2006	1645	2926.9	8657.7	0		248	496	30.6	11.8	8.1	33.5	35.5	35.0	0.000	5.5	3.8	3.7	VC
710	8/10/2006	1816	2926.9	8657.7	0														VC
711	8/10/2006	1949	2926.9	8657.8	0														VC
712	8/10/2006	2126	2926.9	8657.7	0														VC
713	8/11/2006	1454	2905.8	8823.4	11		173	346	30.0	13.9	9.1	32.5	35.8	35.1	0.000	5.8	4.1	3.6	
714	8/11/2006	1613	2905.8	8823.1	11														VC
715	8/11/2006	1741	2905.9	8823.2	11														VC

Table 2. Selected environmental parameters (continued)

GANDY, REEFFISH SURVEY																				
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR	
			LAI	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX		
716	8/11/2006	1900	2905.9	8823.2	11															VC
717	8/11/2006	2022	2906.4	8823.2	11		158	316	30.7	14.7	9.2	32.9	35.9	35.1	0.000	5.7	4.2	3.7		
718	8/11/2006	2308	2906.4	8823.0	11															VC
900	7/27/2006	.	3022.1	8833.8	11															

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	4/23/2006	638	2959.9	8659.8	9	75	36	70	23.3	20.3	19.4	32.7	36.3	36.4		7.2	7.5	6.8	NN
2	4/23/2006	1113	2929.9	8629.7		215	101	201	24.2	18.8	14.7	35.0	36.4	35.9		6.8	4.5	4.2	NN
3	4/23/2006	1533	2911.9	8559.6	8	198	0	0											PN
4	4/23/2006	2033	2840.2	8530.4		187	92	183	25.0	19.7	15.1	35.8	36.5	36.0		6.8	5.7	3.7	NN
5	4/24/2006	141	2800.4	8500.2															PN
6	4/24/2006	514	2730.3	8500.0		419	100	201	24.8	19.0	15.7	36.6	36.4	36.1		6.7	6.3	3.8	NN
7	4/24/2006	918	2659.6	8500.7		940	101	201	25.6	19.6	14.7	36.4	36.5	35.9		6.6	5.6	4.1	NN
8	4/24/2006	1345	2630.5	8459.9		1620	102	203	25.9	18.3	14.3	36.5	36.5	35.9		6.6	4.7	4.3	NN
9	4/24/2006	1756	2601.0	8459.9		2966	102	202	26.2	17.9	13.6	36.4	36.4	35.8		6.6	4.4	4.2	PN
10	4/24/2006	2153	2600.6	8429.5		228	101	201	25.1	19.1	14.1	36.5	36.5	35.8		6.7	4.8	4.4	NN
11	4/25/2006	131	2600.6	8359.4	4	142	71	140	26.2	20.3	15.0	36.5	36.5	36.0		6.6	6.8	4.1	PN
12	4/25/2006	523	2530.6	8359.8	3	142	70	139	26.7	20.9	16.7	36.4	36.5	36.2		6.4	6.9	4.2	NN
13	4/25/2006	901	2500.5	8359.5	3	130	64	127	26.4	21.5	18.7	36.4	36.5	36.4		6.4	7.1	5.0	PN
14	4/25/2006	1226	2430.4	8359.5		2196	102	202	26.9	23.1	17.7	36.2	36.6	36.4		6.4	6.4	4.9	NN
15	4/25/2006	1534	2430.7	8330.4	2	300	101	202	25.8	16.2	12.0	36.4	36.2	35.5		6.6	4.4	4.0	PN
16	4/25/2006	1923	2400.5	8329.7	2	1086	101	202	27.0	21.3	14.3	36.3	36.5	35.9		6.4	6.7	4.3	PN
17	4/26/2006	0	2400.2	8400.6		2258	101	201	26.9	25.6	19.8	36.1	36.3	36.7		6.4	6.1	5.0	PN
18	4/26/2006	621	2430.2	8430.4		3060	101	202	27.1	24.5	19.8	36.2	36.3	36.7		6.4	6.7	5.0	PN
19	4/26/2006	1128	2500.8	8430.4		1980	101	201	25.9	19.9	15.5	36.5	36.5	36.1		6.5	6.0	4.3	PN
20	4/26/2006	1539	2500.6	8459.2		3349	102	203	26.4	20.3	15.3	36.3	36.5	36.0		6.5	6.0	4.3	PN
21	4/26/2006	1935	2430.3	8459.8		2485	101	202	27.1	25.2	21.6	36.1	36.1	36.9		6.4	6.5	5.0	NN
22	4/27/2006	7	2439.2	8529.4		2862	102	203	28.1	25.6	21.6	36.2	36.4	36.9		6.3	6.0	5.0	PN
23	4/27/2006	358	2459.8	8530.0		3305	101	201	27.8	23.9	19.1	36.2	36.6	36.4		6.3	6.8	6.3	NN
24	4/27/2006	807	2459.4	8559.7		3294	102	203	27.4	26.1	22.6	36.1	36.4	36.9		6.3	6.1	5.0	PN
25	4/27/2006	1254	2529.9	8559.9		3200	101	202	27.4	25.2	20.6	36.2	36.7	36.6		6.3	5.7	5.4	NN
26	4/27/2006	1616	2530.0	8626.8		3257	102	201	27.6	26.2	22.5	36.2	36.1	36.9		6.3	6.5	5.0	NN
27	4/27/2006	2127	2559.7	8600.2		1323	101	200	27.4	24.3	19.5	36.2	36.9	36.6		5.9	5.4	4.7	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	4/28/2006	253	2630.0	8559.4		3202	101	201	27.4	24.8	18.6	36.2	36.8	36.6		6.3	5.5	5.1	NN
29	4/28/2006	758	2700.3	8559.9		3203	101	201	26.5	22.4	17.6	36.3	36.7	36.4		6.4	5.6	4.4	NN
30	4/28/2006	1121	2730.4	8600.8		3113	103	204	25.0	20.7	15.2	36.6	36.7	36.0		6.6	4.7	4.4	NN
31	4/28/2006	1507	2800.4	8600.4		1011	102	203	24.8	19.8	15.8	36.5	36.4	36.1		6.7	6.3	4.6	NN
32	4/28/2006	1842	2830.1	8600.5		351	102	201	24.6	19.7	15.8	36.6	36.5	36.1		6.7	6.2	4.3	NN
33	4/28/2006	2349	2900.7	8630.3		395	103	204	24.7	19.8	15.6	35.2	36.4	36.1		6.8	6.2	4.3	NN
34	4/29/2006	342	2900.7	8700.6		711	102	201	23.9	17.7	13.7	35.4	36.3	35.8		6.9	4.6	4.1	PN
35	5/2/2006	147	2830.4	8700.5		890	102	202	23.8	19.1	15.0	36.2	36.4	36.0		6.7	6.2	4.3	NN
36	5/2/2006	529	2800.4	8700.9		2850	101	202	24.2	19.0	14.9	35.7	36.4	36.0		6.7	6.1	4.2	PN
37	5/2/2006	921	2730.5	8660.0		3046	101	202	24.2	20.1	15.4	36.6	36.5	36.0		6.6	5.6	4.2	NN
38	5/2/2006	1311	2700.7	8700.7		2946	101	202	26.9	22.9	17.0	36.3	36.6	36.3		6.3	6.7	4.7	PN
39	5/2/2006	1749	2630.4	8700.5		2950	102	203	27.0	25.7	21.4	36.2	36.1	36.8		6.3	6.3	4.8	NN
40	5/2/2006	1953	2617.5	8700.7		3093	102	203	26.7	25.7	22.4	36.1	36.1	36.9		6.4	6.3	4.9	PN
41	5/3/2006	25	2600.7	8730.3		3148	101	200	27.2	26.1	21.2	36.2	36.4	36.8		6.2	6.1	4.9	NN
42	5/3/2006	410	2559.9	8800.6		3010	101	201	26.9	23.6	18.2	36.2	36.6	36.5		6.3	5.5	5.3	PN
43	5/3/2006	740	2630.1	8800.1		2708	102	203	26.9	22.4	18.2	36.2	36.9	36.5		6.3	4.9	5.1	NN
44	5/3/2006	1102	2700.9	8759.8		2754	101	202	26.4	20.7	15.1	36.3	36.4	36.0		6.3	6.4	4.3	PN
45	5/3/2006	1453	2700.5	8829.9		2590	101	202	25.2	19.4	13.2	36.5	36.5	35.7		6.5	4.8	4.1	NN
46	5/3/2006	1827	2700.7	8900.2		2305	102	203	26.0	22.5	17.9	36.5	36.6	36.4		6.5	6.7	4.9	PN
47	5/3/2006	2211	2630.8	8900.3		2849	102	201	26.4	23.1	18.9	36.3	36.6	36.6		6.4	6.6	4.9	NN
48	5/4/2006	126	2600.7	8859.6		3111	101	201	26.0	19.5	14.8	36.6	36.6	36.0		6.5	4.8	4.5	PN
49	5/4/2006	442	2600.5	8929.9		3239	101	201	26.3	21.6	16.7	36.3	36.6	36.3		6.4	6.0	4.8	NN
50	5/4/2006	721	2600.8	8959.6		2910	101	201	26.1	23.8	17.4	36.3	36.7	36.4		6.4	5.8	4.9	PN
51	5/4/2006	1157	2630.6	8959.6		2727	101	202	25.6	24.5	21.8	36.3	36.3	36.9		6.4	6.4	4.8	NN
52	5/4/2006	1554	2701.1	9000.1		2452	101	202	25.7	24.5	21.1	36.3	36.3	36.8		6.5	6.5	4.8	PN
53	5/4/2006	1952	2700.7	9030.4		1647	101	201	25.6	24.5	21.8	36.3	36.3	36.9		6.5	6.5	4.8	NN
54	5/4/2006	2317	2700.1	9059.1		1711	103	205	26.8	24.2	20.5	36.3	36.4	36.7		6.3	6.6	4.7	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	5/5/2006	317	2730.8	9100.2		1098	102	203	26.0	22.8	16.9	36.5	36.6	36.3		6.4	6.7	4.4	NN
56	5/5/2006	746	2800.8	9130.4	15	165	82	163	25.6	21.1	16.0	36.6	36.5	35.7		6.5	6.2	4.2	NN
57	5/5/2006	1104	2800.8	9059.5	14	152	75	149	25.6	22.2	16.5	36.6	36.5	34.8		6.5	6.8	4.1	PN
58	5/5/2006	1456	2805.7	9029.6	14	146	73	145	25.4	21.9	17.1	36.6	36.5	35.6		6.5	6.7	4.1	NN
59	5/5/2006	1816	2800.1	8959.0		559	101	201	26.0	20.9	14.4	36.6	36.5	35.9		6.5	6.3	4.2	PN
60	5/5/2006	2205	2800.5	8929.6		1008	100	199	26.6	19.1	15.3	36.4	36.5	36.0		6.5	4.7	4.4	NN
61	5/6/2006	122	2800.7	8859.2		1330	101	201	26.3	19.4	14.9	36.5	36.5	36.0		6.4	5.7	4.3	PN
62	5/6/2006	528	2730.3	8859.7		1802	103	204	26.1	20.6	15.8	36.3	36.6	36.1		6.4	5.5	4.3	NN
63	5/6/2006	1023	2800.6	8829.8		2178	109	217	25.0	19.7	15.3	36.5	36.4	36.0		6.6	5.5	4.3	NN
64	5/6/2006	1409	2800.8	8759.0		2525	102	203	25.1	19.5	17.8	36.0	36.3	36.3		6.6	6.7	5.7	PN
65	5/6/2006	1810	2830.3	8759.8		2324	101	201	25.0	20.1	16.8	36.5	36.5	36.3		6.6	6.3	4.7	NN
66	5/6/2006	2142	2859.5	8759.4		1384	102	201	25.1	19.7	14.9	36.5	36.5	36.0		6.7	4.7	4.3	PN
67	5/7/2006	140	2930.3	8758.6	10	48	24	47	24.5	22.5	20.0	34.1	36.3	36.2		6.8	6.6	6.5	NN
68	5/11/2006	815	3000.0	8700.5	10														NN
69	5/11/2006	1341	2930.8	8630.0	9	208	101	200	25.0	19.0	14.6	35.6	36.5	35.9		6.5	5.0	4.0	NN
70	5/11/2006	1751	2911.3	8600.4		197	98	193	24.2	20.2	14.2	35.8	36.5	35.9		6.6	6.9	3.9	PN
71	5/11/2006	2354	2839.6	8530.2		185	91	180	25.0	19.2	15.2	35.6	36.3	36.0		6.5	5.8	3.9	NN
72	5/12/2006	533	2759.0	8500.1		266	101	200	24.6	19.1	13.4	36.0	36.4	35.7		6.6	5.4	3.9	PN
73	5/12/2006	944	2729.5	8500.5		426	105	208	24.6	18.8	14.0	36.2	36.4	35.8		6.6	5.6	4.0	NN
74	5/12/2006	1333	2659.1	8500.1		511	102	203	26.2	19.6	14.9	36.4	36.5	36.0		6.3	5.5	4.2	PN
75	5/12/2006	1740	2629.7	8500.5		1916	102	203	26.8	20.1	15.1	36.4	36.5	36.0		6.3	5.9	4.4	NN
76	5/12/2006	2117	2559.7	8500.7		3111	102	202	27.0	21.0	16.1	36.4	36.7	36.2		6.4	4.9	4.8	PN
77	5/13/2006	54	2600.4	8430.7		225	102	202	26.6	19.6	14.5	36.4	36.5	35.9		6.3	5.7	4.3	NN
78	5/13/2006	407	2600.6	8359.7	4	139	69	136	25.6	21.2	15.9	36.6	36.5	36.1		6.5	7.1	3.9	PN
79	5/13/2006	803	2529.7	8400.2		142	70	139	25.5	21.3	16.9	36.6	36.5	36.3		6.4	6.8	4.1	NN
80	5/13/2006	1203	2459.9	8359.7		130	63	126	26.4	21.0	16.2	36.5	36.5	36.1		6.3	6.7	4.3	PN
81	5/13/2006	1541	2430.5	8400.3		2096	102	203	25.9	18.8	14.2	36.6	36.5	35.9		6.4	4.6	4.1	NN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	5/13/2006	1850	2430.0	8330.9		322	101	202	26.3	18.8	13.2	36.6	36.5	35.7		6.4	4.9	4.2	PN
83	5/13/2006	2242	2400.2	8330.4		1081	101	202	27.6	22.7	17.4	36.3	36.9	36.4		6.2	4.9	4.7	PN
84	5/14/2006	402	2359.5	8401.1		2013	102	201	27.4	20.9	16.2	36.3	36.5	36.2		6.2	6.8	4.4	PN
85	5/14/2006	949	2430.4	8430.8		1870	101	201	26.1	18.6	13.2	36.6	36.4	35.7		6.4	4.4	4.1	PN
86	5/14/2006	1411	2500.9	8430.2		1830	102	202	26.7	20.0	14.4	36.4	36.5	35.9		6.3	6.0	4.4	PN
87	5/14/2006	1805	2500.7	8500.2		3348	101	200	27.5	24.0	17.8	36.3	36.7	36.4		6.2	5.5	4.8	PN
88	5/14/2006	2210	2430.7	8459.8		3394	102	201	27.1	20.9	16.6	36.5	36.6	36.2		6.3	5.0	4.3	NN
89	5/15/2006	148	2440.9	8529.7		3400	102	203	27.6	26.3	20.1	36.2	36.3	36.7		6.2	6.0	4.9	PN
90	5/15/2006	535	2500.9	8530.0		3300	102	203	27.4	25.9	21.7	36.2	36.1	36.9		6.2	6.4	4.9	NN
91	5/15/2006	902	2500.6	8600.5		3290	101	202	27.1	26.0	23.5	36.2	36.1	36.8		6.2	6.3	5.1	PN
92	5/15/2006	1340	2530.3	8559.3		3202	102	203	27.1	26.1	23.1	36.2	36.1	36.9		6.2	6.4	5.0	NN
93	5/15/2006	1646	2530.7	8626.7		3257	101	202	27.1	26.2	24.1	36.2	36.1	36.8		6.3	6.4	5.2	NN
94	5/15/2006	2125	2600.5	8559.8		3220	102	201	27.6	26.3	22.4	36.1	36.2	36.9		6.1	6.0	4.9	PN
95	5/16/2006	241	2630.9	8600.4		3200	101	202	28.0	25.4	19.1	36.3	36.6	36.5		6.2	5.8	5.8	NN
96	5/16/2006	744	2700.6	8600.1		3200	108	3000	26.4	20.1	18.9	36.5	36.4	35.6		6.3	7.1	7.7	PN
97	5/16/2006	1308	2729.6	8600.4		3222	102	201	24.9	20.2	17.1	36.5	36.4	36.3		6.5	6.4	4.6	NN
98	5/16/2006	1739	2759.7	8600.8		1039	103	204	24.8	20.0	15.7	35.9	36.5	36.1		6.5	6.1	4.2	PN
99	5/16/2006	2145	2829.8	8600.5		348	102	203	24.8	20.3	15.7	35.8	36.4	36.1		6.6	6.4	4.2	NN
100	5/17/2006	222	2859.3	8629.6		396	101	202	24.4	18.8	14.2	35.1	36.4	35.9		6.6	5.5	4.1	NN
101	5/17/2006	553	2859.4	8700.5		729	102	203	24.2	17.7	14.0	35.2	36.3	35.8		6.7	4.5	4.0	PN
102	5/19/2006	916	2829.6	8659.6		893	102	201	24.6	19.6	15.7	35.3	36.5	36.1		6.5	5.5	4.2	NN
103	5/19/2006	1320	2759.3	8659.7		2862	102	203	25.8	19.8	15.1	36.5	36.5	36.0		6.3	6.1	4.3	PN
104	5/19/2006	1727	2729.4	8700.1		3038	103	204	25.9	21.7	13.5	36.5	36.5	35.8		6.3	6.4	4.3	NN
105	5/19/2006	2115	2659.3	8700.2		2946	101	200	27.2	25.3	18.5	36.1	36.6	36.5		6.3	5.8	4.8	PN
106	5/20/2006	222	2630.1	8659.4		2992	101	202	27.4	26.5	22.5	36.2	36.1	36.9		6.3	6.3	4.9	NN
107	5/20/2006	412	2617.1	8659.9		3093	101	202	27.2	26.2	23.5	36.1	36.1	36.9		6.3	6.3	5.1	PN
108	5/20/2006	827	2600.1	8729.8		3147	102	203	27.2	26.2	23.3	36.2	36.1	36.9		6.2	6.3	5.0	NN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
109	5/20/2006	1149	2600.0	8759.6		3017	101	201	27.0	25.5	22.2	36.1	36.2	36.9		6.2	6.2	4.8	PN
110	5/20/2006	1521	2629.1	8759.9		2708	101	202	26.9	25.0	21.0	36.1	36.2	36.8		6.3	6.2	4.8	NN
111	5/20/2006	1838	2700.8	8800.3		2745	101	202	27.5	23.0	16.6	36.2	36.6	36.2		6.2	6.8	4.6	PN
112	5/20/2006	2332	2700.1	8829.1		2379	103	204	27.4	22.0	16.5	36.3	36.6	36.2		6.2	5.9	4.4	NN
113	5/21/2006	324	2700.0	8900.4		2288	101	202	25.9	21.7	15.5	36.4	36.5	36.1		6.4	6.1	4.1	PN
114	5/21/2006	749	2629.3	8900.1		2854	101	202	27.4	20.9	17.2	36.3	36.7	36.3		6.2	4.9	4.8	NN
115	5/21/2006	1155	2600.5	8859.9		3108	102	203	26.4	17.5	12.7	36.5	36.3	35.6		6.3	4.7	4.3	PN
116	5/21/2006	1524	2600.6	8930.6		3330	102	202	27.1	18.9	14.8	36.3	36.5	36.0		6.2	4.6	4.5	NN
117	5/21/2006	1830	2600.7	9000.3		2900	101	202	26.2	23.1	18.2	36.6	36.6	36.5		6.4	6.6	4.2	PN
118	5/21/2006	2306	2630.6	9000.3		2745	102	203	26.0	24.2	20.7	36.4	36.4	36.8		6.4	6.3	4.8	NN
119	5/22/2006	319	2700.9	8959.5		2452	101	202	25.9	24.2	20.6	36.4	36.5	36.8		6.4	6.3	4.8	PN
120	5/22/2006	710	2700.6	9029.9		1650	102	203	25.8	24.5	21.6	36.3	36.3	36.9		6.4	6.5	4.8	NN
121	5/22/2006	1044	2700.7	9059.9		1671	101	200	25.8	24.4	20.9	36.4	36.3	36.7		6.4	6.4	5.1	PN
122	5/22/2006	1518	2630.5	9059.9															NN
123	5/22/2006	1857	2600.8	9100.2		2078	102	203	25.9	24.3	20.7	36.4	36.4	36.8		6.4	6.4	4.9	PN
124	5/22/2006	2241	2600.5	9130.3		2104	102	201	26.3	22.3	16.6	36.6	36.6	36.2		6.4	5.5	4.2	NN
125	5/23/2006	158	2600.8	9200.6		2196	102	203	26.1	19.1	14.1	36.5	36.5	35.8		6.4	4.6	4.2	PN
126	5/23/2006	551	2630.3	9200.3		1879	102	203	26.2	20.0	13.7	36.5	36.5	35.8		6.3	4.9	4.3	NN
127	5/23/2006	945	2700.6	9200.7		1883	101	202	25.8	21.7	15.4	36.3	36.6	36.0		6.4	6.1	4.4	PN
128	5/23/2006	1325	2700.3	9230.6		1443	101	202	26.2	21.4	17.2	36.6	36.6	36.4		6.3	5.7	4.8	NN
129	5/23/2006	1636	2700.7	9300.5		1281	101	202	26.1	19.2	14.2	36.5	36.5	35.9		6.4	4.6	4.2	PN
130	5/23/2006	2050	2630.4	9259.9		1647	101	202	26.6	20.9	14.7	36.6	36.5	35.9		6.4	5.8	4.4	NN
131	5/23/2006	2251	2617.7	9259.9		1885	102	201	26.4	19.4	14.3	36.5	36.5	35.9		6.4	4.7	4.4	PN
132	5/24/2006	248	2601.6	9330.3		2288	103	204	26.1	20.3	12.9	36.6	36.5	35.7		6.4	5.1	3.9	NN
133	5/24/2006	606	2601.8	9359.8		2745	105	208	26.2	20.4	14.4	36.7	36.4	35.9		6.4	5.7	4.1	PN
134	5/24/2006	1015	2630.5	9360.0		1528	102	201	25.9	19.9	14.2	36.4	36.5	35.9		6.4	5.1	4.1	NN
135	5/24/2006	1403	2700.8	9359.9		960	101	201	25.8	19.6	14.3	36.4	36.5	35.9		6.4	5.1	4.2	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, SPRING PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
136	5/24/2006	1744	2659.9	9429.8		1115	101	202	26.6	20.5	15.4	36.6	36.5	36.0		6.3	5.2	4.0	NN
137	5/24/2006	2126	2700.7	9459.6		1489	102	203	26.7	20.0	14.4	35.8	36.5	35.9		6.4	4.7	4.1	PN
138	5/25/2006	134	2630.4	9500.3		1700	101	201	26.6	19.5	15.1	36.2	36.6	36.0		6.3	4.1	4.1	NN
139	5/25/2006	515	2601.7	9459.7		2345	101	202	26.7	20.8	15.1	36.7	36.5	36.0		6.3	5.5	4.1	PN
140	5/25/2006	910	2601.4	9530.0		1463	102	201	26.8	20.7	16.3	36.7	36.6	36.2		6.3	4.6	4.1	NN
141	5/25/2006	1249	2601.7	9600.5		1040	102	203	26.9	22.2	15.9	36.6	36.6	36.1		6.3	5.5	4.2	PN
142	5/25/2006	1630	2630.3	9600.2		1074	101	201	26.8	20.8	15.8	36.6	36.5	36.1		6.3	5.7	4.2	NN
143	5/25/2006	2007	2700.7	9559.3		826	102	201	26.4	21.0	15.8	36.3	36.5	36.1		6.4	5.2	4.1	PN
144	5/26/2006	27	2730.6	9600.0	20	220	102	203	26.4	20.2	15.4	36.2	36.4	36.0		6.3	5.0	4.0	NN
145	5/26/2006	408	2800.6	9600.3	19	47	24	46	26.6	24.8	20.5	33.5	34.7	36.3		6.5	6.3	4.9	PN
146	5/26/2006	741	2800.4	9530.0	19	57	28	54	26.6	23.2	20.7	34.3	35.6	36.4		6.4	6.3	5.3	NN
147	5/26/2006	1052	2800.4	9459.6	18	84	41	82	25.9	23.1	19.4	35.4	36.6	36.5		6.4	6.9	4.1	PN
148	5/26/2006	1412	2801.4	9430.0	18	72	35	70	25.7	25.2	19.5	34.9	36.6	36.5		6.5	6.6	4.0	NN
149	5/26/2006	1720	2800.8	9401.2	18	86	42	82	26.2	21.4	19.3	35.3	36.2	36.5		6.5	6.8	4.2	PN
150	5/26/2006	2110	2801.5	9329.7	17	88	44	86	25.8	22.6	19.6	35.4	36.3	36.5		6.5	6.9	4.5	PN
151	5/27/2006	50	2801.7	9260.0	16	106	54	104	26.0	22.7	19.9	35.6	36.5	36.5		6.5	6.8	4.8	PN
152	5/27/2006	442	2801.8	9230.8	16	108	54	105	25.9	23.4	20.6	35.9	36.5	36.5		6.5	6.8	5.4	PN
153	5/27/2006	845	2800.8	9159.9	15	123	60	120	26.5	22.9	20.6	36.6	36.6	36.5		6.3	6.7	5.5	PN
154	5/27/2006	1231	2800.7	9130.0	15	158	77	154	26.5	22.6	18.4	36.6	36.5	36.5		6.3	6.7	4.3	PN
155	5/27/2006	1545	2800.6	9100.5	15	162	78	159	26.6	23.1	15.1	36.6	36.6	35.7		6.3	6.8	4.1	PN
156	5/27/2006	2005	2805.7	9028.1	14	165	81	162	26.6	20.1	15.3	35.9	36.4	36.0		6.4	5.0	4.0	PN
157	5/27/2006	2347	2800.6	9000.2	14	562	102	203	26.7	19.3	13.5	36.0	36.4	35.7		6.4	4.8	4.0	PN
158	5/28/2006	358	2800.6	8930.6		1012	102	202	26.8	20.1	15.1	36.3	36.4	36.0		6.4	5.9	4.3	PN
159	5/28/2006	754	2800.9	8900.1		1335	102	201	25.4	20.2	15.9	36.3	36.4	36.1		6.7	6.0	4.5	PN
160	5/28/2006	1220	2800.8	8829.9		2147	101	202	26.3	20.6	17.2	35.8	36.5	36.3		6.5	6.1	4.5	PN
161	5/28/2006	1542	2800.8	8800.1		2434	101	200	27.3	20.3	16.6	35.5	36.5	36.2		6.7	6.5	4.4	PN
162	5/28/2006	2044	2830.5	8800.3		2305	101	200	27.2	20.6	16.8	35.7	36.5	36.3		6.4	6.1	4.5	PN

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GROUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	6/14/2006	1918	2959.9	8759.1	10	25	12	22	28.1	27.5	23.7	33.1	33.6	35.4	0.000	6.6	6.7	5.2	PN
2	6/14/2006	2211	2959.5	8828.2	11	27	14	26	29.2	27.8	22.2	33.9	34.7	35.9	0.000	6.8	6.5	3.4	PN
3	6/15/2006	118	3010.1	8849.7	11	13	8	13	30.0	29.0	25.8	31.1	31.8	33.5	0.000	6.8	6.7	1.5	ST
4	6/15/2006	334	3006.2	8856.7	11	12	6	12	29.6	29.5	27.4	30.6	31.1	32.3	0.000	7.0	6.4	2.7	ST
5	6/15/2006	551	3003.5	8845.8	11	13	7	13	29.4	28.6	25.5	31.4	32.2	34.0	0.000	6.8	6.4	2.5	ST
6	6/15/2006	834	2959.0	8823.4	11	32	16	31	28.6	24.4	21.0	34.2	36.5	36.3	0.000	6.5	6.3	3.8	ST
7	6/15/2006	1029	2949.7	8818.8	11	37	20	37	28.8	22.0	21.1	33.8	36.4	36.4	0.000	6.6	5.5	4.1	ST
8	6/15/2006	1344	2929.8	8830.5	11	50	25	50	29.0	22.5	21.3	33.1	36.4	36.4	0.000	7.2	5.7	4.5	NN
9	6/15/2006	1649	2929.6	8800.2	11	45	24	45	28.4	23.4	21.9	34.8	36.3	36.2	0.000	6.9	6.0	5.6	NN
10	6/15/2006	1813	2929.1	8809.4	11	45	23	45	28.2	25.0	22.0	35.2	36.4	36.2	0.000	7.0	6.7	5.7	ST
11	6/15/2006	1939	2926.3	8809.0	11														ST
12	6/15/2006	2104	2924.0	8803.4	11	88	44	87	29.2	22.5	20.0	32.6	36.5	36.3	0.000	7.6	6.8	5.8	ST
13	6/15/2006	2316	2914.9	8800.1	11	249	124	245	30.5	17.8	13.5	32.6	36.4	35.7	0.000	7.4	4.4	4.0	NN
14	6/16/2006	101	2926.0	8802.3	11	54	28	54	28.8	24.5	21.0	34.7	36.5	36.2	0.000	7.2	7.1	6.4	ST
15	6/16/2006	546	2914.9	8829.3	11	96	47	94	28.7	21.5	20.2	35.2	36.5	36.4	0.000	6.9	5.8	4.9	PN
16	6/16/2006	911	2915.8	8855.8	11	30	15	29	29.5	25.4	23.0	31.0	34.6	36.3	0.000	7.6	5.5	5.0	ST
17	6/16/2006	1144	2915.9	8843.6	11	64	32	63	29.0	21.9	21.1	33.5	36.4	36.4	0.000	7.0	5.7	4.4	ST
18	6/16/2006	1309	2913.5	8843.9	11														ST
19	6/16/2006	1515	2908.7	8836.3	11	83	42	83	29.3	23.4	19.8	33.7	36.6	36.4	0.000	7.4	7.1	4.7	ST
20	6/16/2006	1822	2906.1	8858.5	11	27	10	19	29.5	24.6	23.3	31.3	35.9	36.3	0.000	8.3	5.2	5.4	ST
21	6/16/2006	1957	2905.0	8856.9	11	48	23	46	30.1	23.6	22.1	32.3	36.5	36.4	0.000	7.9	6.3	5.3	ST
22	6/16/2006	2202	2900.6	8857.9	11	86	43	84	28.1	22.6	21.3	35.1	36.5	36.4	0.000	6.8	5.9	4.8	ST
23	6/17/2006	4	2901.3	8858.7	11	68	34	67	28.3	23.6	21.5	33.1	36.4	36.4	0.000	7.5	6.3	4.9	PN
24	6/17/2006	121	2905.7	8854.2	11	70	35	69	29.8	22.1	20.9	34.5	36.4	36.4	0.000	7.1	5.5	4.7	ST
25	6/17/2006	316	2901.7	8859.4	11	62	31	62	28.7	23.5	21.5	31.5	36.4	36.4		8.1	6.4	5.0	ST
26	6/17/2006	512	2857.9	8857.8		85	43	85	29.0	22.4	19.1	32.6	36.5	36.4	0.000	7.4	6.1	4.5	ST
27	6/20/2006	1359	2604.1	9625.6		63	32	63	28.0	24.1	21.7	36.5	36.5	36.0	0.000	6.1	6.6	5.6	PN

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GROUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	6/20/2006	1850	2601.0	9701.8	21	26	13	24	26.0	24.6	23.6	36.6	36.6	36.6	0.000	6.4	6.4	6.3	PN
29	6/20/2006	2123	2608.0	9708.2	21	14	7	12	25.5	25.3	24.0	36.5	36.5	36.6	0.000	6.4	6.3	6.0	ST
30	6/20/2006	2332	2618.9	9656.6	21	35	17	34	27.0	26.6	23.5	36.6	36.6	36.6	0.000	6.4	6.4	6.0	ST
31	6/21/2006	159	2619.3	9708.0	21	16	8	15	26.0	25.9	24.5	36.6	36.6	36.6	0.000	6.4	6.5	6.1	ST
32	6/21/2006	358	2623.7	9711.9	21	12	6	11	25.7	25.7	24.7	36.6	36.6	36.6	0.000	6.2	6.2	6.0	ST
33	6/21/2006	802	2627.4	9630.8	21	86	43	84	28.1	25.0	22.1	36.5	36.5	36.5	0.000	6.3	6.9	6.1	PN
34	6/21/2006	1210	2633.5	9646.6	21	45	23	44	28.2	28.2	22.6	36.5	36.5	36.5		6.3	6.3	6.1	ST
35	6/21/2006	1610	2630.5	9652.8	21	35	18	34	26.5	26.3	24.1	36.6	36.6	36.6	0.000	6.4	6.4	6.5	PN
36	6/21/2006	1921	2633.4	9714.6	21	12	6	11	25.9	25.2	24.0	36.6	36.6	36.9	0.000	6.1	6.0	5.0	ST
37	6/21/2006	2101	2642.4	9708.2	21	28	14	26	27.2	26.8	23.5	36.6	36.6	36.5	0.000	6.4	6.5	6.1	ST
38	6/21/2006	2221	2648.2	9705.3	21	33	18	33	27.4	26.9	23.9	36.6	36.6	36.5	0.000	6.4	6.4	6.3	ST
39	6/22/2006	136	2635.1	9708.5	21	21	11	21	26.9	26.8	23.3	36.6	36.6	36.5	0.000	6.4	6.4	6.0	ST
40	6/22/2006	246	2639.8	9703.7	21	27	13	26	26.9	26.9	23.0	36.6	36.6	36.5	0.000	6.5	6.5	5.7	ST
41	6/22/2006	519	2642.5	9712.0	21	19	10	18	26.6	26.6	24.2	36.6	36.6	36.4	0.000	6.6	6.6	6.4	ST
42	6/22/2006	713	2654.5	9721.2	21	14	7	14	26.4	26.3	25.4	36.6	36.6	36.5	0.000	6.3	6.2	5.6	ST
43	6/22/2006	846	2659.5	9717.6	21	22	11	21	27.1	27.1	24.9	36.6	36.6	36.4		6.5	6.5	6.4	ST
44	6/22/2006	1034	2706.2	9720.0	20														ST
45	6/22/2006	1159	2709.2	9721.1	20	14													ST
46	6/22/2006	1509	2715.7	9705.5	20	30	15	30	27.4	27.3	26.5	36.6	36.6	36.5	0.000	6.4	6.4	6.0	ST
47	6/22/2006	1754	2702.1	9712.7	20	25	13	25	27.4	27.2	24.7	36.6	36.6	36.4	0.000	6.5	6.5	6.7	ST
48	6/22/2006	1939	2658.9	9716.7	21	20	10	18	27.5	27.2	26.7	36.6	36.6	36.6	0.000	6.6	6.6	6.5	ST
49	6/22/2006	2049	2655.5	9715.6	21	22	11	20	26.5	25.7	24.9	36.6	36.6	36.5	0.000	6.5	6.5	6.5	ST
50	6/22/2006	2310	2659.8	9659.4	21	40	20	38	28.1	27.7	24.5	36.6	36.6	36.5	0.000	6.5	6.6	6.9	PN
51	6/23/2006	127	2700.3	9645.1	20	57	30	57	28.2	27.8	23.1	36.6	36.6	36.6	0.000	6.5	6.5	6.8	ST
52	6/23/2006	249	2700.3	9647.8	20														ST
53	6/23/2006	443	2702.5	9700.2	20	40	20	38	27.9	27.7	24.5	36.6	36.6	36.5	0.000	6.5	6.5	6.8	ST
54	6/23/2006	740	2711.1	9713.2	20	24	12	23	27.4	27.4	26.3	36.6	36.6	36.5	0.000	6.5	6.5	6.5	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	6/23/2006	933	2713.4	9703.4	20	34	17	32	27.6	27.5	26.7	36.6	36.6	36.5	0.000	6.5	6.5	6.4	ST
56	6/23/2006	1031	2712.3	9701.0	20	42	22	41	27.4	27.4	25.3	36.6	36.6	36.5		6.5	6.5	6.0	ST
57	6/23/2006	1353	2719.5	9642.8	20	64	32	63	28.0	27.5	21.3	36.5	36.5	36.4	0.000	6.5	6.6	5.3	ST
58	6/23/2006	1519	2718.1	9640.3	20														ST
59	6/23/2006	1706	2721.5	9633.2	20	80	39	78	28.3	25.6	20.5	36.5	36.6	36.5	0.000	6.3	6.9	4.7	ST
60	6/23/2006	1833	2720.8	9630.5	20														ST
61	6/23/2006	2102	2732.3	9620.4	20	93	47	93	28.9	25.4	19.8	36.5	36.5	36.5	0.000	6.3	6.9	4.2	ST
62	6/23/2006	2226	2730.6	9618.3	20														ST
63	6/24/2006	129	2720.2	9623.9		112	57	112	28.5	23.4	18.6	36.5	36.6	36.4	0.000	6.3	6.6	3.9	ST
64	6/24/2006	300	2719.9	9626.9															ST
65	6/24/2006	542	2722.3	9645.6	20														ST
66	6/24/2006	705	2723.1	9648.5	20	47	23	46	28.3	28.0	22.5	36.6	36.6	36.3	0.000	6.3	6.3	5.5	ST
67	6/24/2006	933	2720.8	9702.2	20	31	15	30	27.7	27.7	27.1	36.6	36.6	36.6	0.000	6.3	6.3	6.1	ST
68	6/24/2006	1204	2729.8	9711.7	20	16	9	16	28.1	28.1	28.1	36.4	36.4	36.4		6.3	6.2	6.2	ST
69	6/24/2006	1406	2729.3	9700.5	20	28	15	28	28.0	28.0	27.6	36.4	36.4	36.4	0.000	6.3	6.3	6.3	PN
70	6/24/2006	1534	2733.4	9653.0	20	33	17	32	28.2	28.1	27.3	36.4	36.4	36.4	0.000	6.4	6.4	5.5	ST
71	6/24/2006	1738	2743.6	9701.0	20	18	9	18	28.7	28.5	28.2	36.0	36.0	35.2		6.4	6.3	5.7	ST
72	6/24/2006	1908	2745.3	9705.8	20	13	7	12	29.3	29.0	28.9	36.1	36.1	36.2	0.000	6.4	6.4	6.6	ST
73	6/24/2006	2332	2759.5	9629.6	20	27	13	25	29.0	28.4	28.3	35.5	35.5	35.6	0.000	6.4	6.5	6.5	PN
74	6/25/2006	129	2800.3	9649.4	19	13	6	11	29.6	29.6	29.3	35.9	35.9	36.0	0.000	6.4	6.4	6.2	ST
75	6/25/2006	401	2746.9	9704.0	20	13	7	12	29.0	29.0	29.1	36.2	36.2	36.2		6.4	6.4	6.4	ST
76	6/25/2006	613	2739.5	9655.5	20	25	13	24	28.3	28.2	28.1	35.8	36.0	36.3	0.000	6.4	6.4	6.7	ST
77	6/25/2006	740	2735.3	9656.7	20	27	14	27	28.1	28.0	28.0	35.8	35.9	36.3	0.000	6.4	6.5	6.3	ST
78	6/25/2006	936	2737.3	9647.9	20	36	18	35	28.2	28.0	24.7	36.4	36.4	36.4	0.000	6.4	6.5	5.0	ST
79	6/25/2006	1413	2808.2	9627.1	19	22	11	21	28.6	28.7	28.3	35.3	35.3	35.3		6.5	6.5	6.2	ST
80	6/25/2006	1806	2749.7	9617.5	20	55	27	54	28.5	27.9	21.2	36.3	36.3	36.4	0.000	6.5	6.5	5.2	ST
81	6/25/2006	1926	2748.6	9614.8	20														ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	6/25/2006	2144	2745.8	9624.0	20	55	27	54	28.3	27.1	21.3	36.3	36.3	36.4	0.000	6.5	6.5	5.0	ST
83	6/25/2006	2304	2747.8	9626.2	20														ST
84	6/26/2006	209	2729.5	9630.4	20	73	37	72	29.0	25.4	20.7	36.5	36.5	36.5		6.4	6.9	4.8	PN
85	6/26/2006	356	2740.7	9630.0	20	55	27	54	28.3	27.8	21.3	36.5	36.6	36.4	0.000	6.4	6.5	5.4	ST
86	6/26/2006	516	2740.3	9627.6	20														ST
87	6/26/2006	740	2738.7	9617.1	20	81	40	79	28.8	24.9	20.1	36.5	36.6	36.5	0.000	6.4	7.1	4.5	ST
88	6/26/2006	1057	2758.6	9619.0	20	33	18	33	28.5	28.3	22.0	35.5	35.6	36.3	0.000	6.4	6.4	5.4	ST
89	6/26/2006	1343	2815.7	9624.4	19	17	9	16	29.3	29.1	28.5	34.4	34.8	35.0	0.000	6.4	6.4	5.7	ST
90	6/26/2006	1622	2825.9	9617.4	19	9	4	7	28.9	28.8	28.7	33.5	34.2	34.4	0.000	6.3	5.7	5.6	ST
91	6/26/2006	1818	2819.4	9607.0	19	22	11	20	30.0	28.6	27.9	32.4	35.0	35.2	0.000	6.5	6.3	6.8	ST
92	6/26/2006	1938	2818.0	9604.9	19														ST
93	6/26/2006	2117	2812.3	9557.1	19	30	15	29	28.7	28.3	23.3	35.0	35.0	36.1	0.000	6.5	6.5	5.6	ST
94	6/26/2006	2312	2813.2	9549.8	19	32	16	31	28.8	28.3	22.7	34.6	35.2	36.1	0.000	6.5	6.5	6.1	ST
95	6/27/2006	23	2809.4	9550.8	19	38	19	38	28.8	28.2	21.7	35.2	35.2	36.3	0.000	6.5	6.6	5.5	ST
96	6/27/2006	426	2835.1	9554.2	19	13	7	12	29.3	29.3	28.4	33.5	33.6	34.2	0.000	6.5	6.6	6.9	ST
97	6/27/2006	621	2830.0	9560.0	19	14	7	13	29.3	29.4	28.7	33.4	33.5	34.3	0.000	6.6	6.6	7.2	PN
98	6/27/2006	822	2817.1	9559.7	19	24	13	24	28.8	28.6	27.5	34.9	35.0	34.2		6.5	6.5	6.0	ST
99	6/27/2006	1047	2804.2	9604.5	19	41	21	41	28.3	27.8	21.5	35.2	35.6	36.4	0.000	6.5	6.5	5.2	ST
100	6/27/2006	1247	2800.6	9559.5	19	46	23	44	28.3	27.7	21.3	35.3	35.7	36.4	0.000	6.5	6.5	5.2	PN
101	6/27/2006	1542	2800.4	9529.2	19	55	27	54	28.4	28.0	21.5	35.9	36.3	36.3	0.000	6.4	6.4	5.6	PN
102	6/27/2006	1917	2757.2	9459.9		80	41	80	28.9	24.6	20.2	36.0	36.3	36.5	0.000	6.4	6.8	4.6	PN
103	6/28/2006	131	2744.1	9539.8	20	78	39	77	29.0	27.9	21.3	36.3	36.5	36.4	0.000	6.4	6.5	6.0	ST
104	6/28/2006	315	2743.1	9548.3	20	78	40	78	28.7	27.0	21.2	36.5	36.6	36.5	0.000	6.4	6.7	6.0	ST
105	6/28/2006	453	2745.5	9543.3	20	65	33	64	28.6	27.8	21.6	36.4	36.5	36.4	0.000	6.4	6.5	6.2	ST
106	6/28/2006	747	2800.2	9528.6	19														ST
107	6/28/2006	905	2802.5	9528.3	19														ST
108	6/28/2006	1020	2804.9	9528.6	19	47	23	46	28.6	28.2	21.4	35.1	36.2	36.3	0.000	6.4	6.4	5.7	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
109	6/28/2006	1459	2757.3	9452.4		93	47	92	28.5	24.0	20.0	36.1	36.4	36.5	0.000	6.4	6.7	4.7	ST
110	6/28/2006	1615	2759.4	9452.2															ST
111	6/28/2006	1735	2801.7	9452.3	18	70	35	69	28.9	26.6	20.2	36.4	36.5	36.5	0.000	6.3	6.6	4.5	ST
112	6/28/2006	1943	2809.7	9437.9	18														ST
113	6/28/2006	2213	2800.7	9429.9	18	65	33	64	29.3	28.1	21.1	34.9	36.2	36.4	0.000	6.4	6.4	5.5	PN
114	6/29/2006	202	2802.1	9507.8	19	65	33	64	28.9	27.7	19.8	34.7	36.4	36.5	0.000	6.4	6.5	4.3	ST
115	6/29/2006	323	2804.5	9508.1	19														ST
116	6/29/2006	609	2817.2	9453.6	18	46	23	46	28.7	28.0	22.0	34.4	36.1	36.4	0.000	6.5	6.5	6.4	ST
117	6/29/2006	728	2819.6	9453.1	18														ST
118	6/29/2006	1051	2829.3	9429.7	18	37	18	36	28.9	28.0	23.5	33.9	34.7	35.8		6.4	6.6	5.4	PN
119	6/29/2006	1242	2818.1	9433.1	18	47	24	47	28.9	27.1	22.2	34.0	35.3	36.1	0.000	6.5	6.6	5.4	ST
120	6/29/2006	1402	2820.2	9434.2	18														ST
121	6/29/2006	1521	2822.4	9435.4	18														ST
122	6/29/2006	1924	2830.5	9503.3	19	33	17	32	28.9	28.4	24.8	34.0	34.6	35.5	0.000	6.4	6.5	5.4	PN
123	6/29/2006	2200	2839.3	9510.1	19	26	14	25	29.1	28.7	26.3	34.1	34.2	34.8	0.000	6.5	6.5	5.7	ST
124	6/30/2006	125	2837.5	9509.2	19	27	14	27	29.0	28.7	25.6	34.3	34.3	35.2	0.000	6.4	6.5	5.6	ST
125	6/30/2006	322	2832.2	9504.7	19	31	17	30	28.9	28.6	24.7	34.0	34.2	35.5	0.000	6.4	6.5	5.6	ST
126	6/30/2006	443	2830.3	9502.2	19	37	18	35	29.0	27.8	23.3	34.4	35.1	35.9	0.000	6.4	6.5	5.7	ST
127	7/2/2006	453	2834.6	9537.8	19	17	9	17	28.8	28.8	28.8	33.8	33.8	32.8		6.2	6.2	6.1	ST
128	7/2/2006	542	2833.5	9536.7	19	22	13	22	28.7	28.7	28.7	34.0	34.0	32.9		6.2	6.3	4.8	ST
129	7/2/2006	822	2830.7	9528.9	19	26	13	26	28.6	28.7	25.6	34.3	34.3	34.8	0.000	6.3	6.3	4.2	PN
130	7/2/2006	1048	2845.4	9521.2	19	17	9	16	29.1	29.1	29.1	33.2	33.2	33.2		6.1	6.1	6.1	ST
131	7/2/2006	1402	2828.1	9531.2	19	28	14	27	28.3	28.4	27.2	34.7	34.8	35.0	0.000	6.4	6.4	6.2	ST
132	7/2/2006	1915	2859.0	9459.5	18	17	10	17	28.9	29.0	28.9	32.5	32.7	32.6		6.3	6.3	6.2	PN
133	7/2/2006	2024	2909.1	9457.6	18	14	7	12	29.1	29.1	29.1	31.3	31.3	31.4	0.000	6.0	6.0	6.0	ST
134	7/2/2006	2202	2909.3	9450.2	18	15	7	14	29.0	29.1	29.1	31.5	31.5	33.0	0.000	6.3	6.3	5.3	ST
135	7/2/2006	2342	2910.3	9447.8	18	14	7	13	29.0	29.0	29.0	31.7	31.7	32.1	0.000	5.7	5.7	5.3	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
136	7/3/2006	140	2914.0	9440.8	18	15	8	13	29.0	29.0	29.0	31.5	31.5	31.6		6.0	6.0	5.7	ST
137	7/3/2006	537	2930.4	9424.0	18	11	6	11	28.7	28.7	28.7	31.3	31.3	31.4	0.000	6.3	6.3	6.3	ST
138	7/3/2006	908	2930.5	9358.9	17	13	7	12	29.0	29.0	29.0	30.8	30.8	29.4		6.2	6.3	4.7	PN
139	7/3/2006	1327	2859.8	9430.2	18	19	10	19	28.9	28.9	28.8	32.8	32.8	32.9	0.000	6.2	6.2	5.9	PN
140	7/3/2006	2112	2854.1	9447.4	18	19	9	18	28.5	28.7	28.7	32.9	33.2	33.4	0.000	6.4	6.3	6.2	ST
141	7/4/2006	125	2846.3	9443.4	18	22	11	20	28.4	28.5	27.3	33.2	33.5	34.4	0.000	6.4	6.4	5.0	ST
142	7/4/2006	604	2841.9	9409.6	18	30	15	29	28.4	28.5	25.9	33.3	33.4	35.4	0.000	6.4	6.4	5.7	ST
143	7/4/2006	847	2829.6	9400.4	18	41	21	41	28.5	27.7	22.5	33.8	34.5	36.0	0.000	6.3	6.3	4.3	PN
144	7/4/2006	1126	2830.2	9400.6	18	41	19	38	28.4	28.5	22.9	33.8	33.9	36.1	0.000	6.3	6.3	5.3	ST
145	7/4/2006	1244	2832.4	9400.4	18														ST
146	7/4/2006	1528	2843.7	9410.9	18	28	13	26	28.5	28.5	26.1	33.3	33.3	35.3	0.000	6.3	6.3	6.0	ST
147	7/5/2006	120	2913.0	9358.0	17	17	9	15	29.1	29.1	29.1	31.6	31.6	32.2	0.000	6.3	6.1	4.9	ST
148	7/5/2006	351	2923.2	9342.0	17	13													ST
149	7/5/2006	502	2924.3	9344.0	17														ST
150	7/5/2006	909	2859.8	9359.5	17	21	11	20	28.5	28.5	26.8	33.3	33.3	35.2		6.3	6.3	3.1	PN
151	7/5/2006	1127	2842.5	9357.4	17														ST
152	7/5/2006	1324	2837.0	9356.7	17														ST
153	7/5/2006	1646	2813.9	9409.1	18														ST
154	7/5/2006	1802	2812.1	9407.5	18														ST
155	7/5/2006	1919	2810.3	9405.6	18														ST
156	7/5/2006	2110	2804.3	9410.9	18														ST
157	7/5/2006	2236	2802.0	9410.3	18	80	40	79	28.2	25.6	18.2	34.8	36.4	36.4	0.000	6.5	6.7	3.7	ST
158	7/6/2006	39	2759.8	9403.0		80	40	79	28.3	26.4	19.7	35.2	36.3	36.5	0.000	6.4	6.5	3.9	PN
159	7/6/2006	229	2759.5	9414.5		81	40	78	28.1	26.7	19.0	34.8	36.2	36.5	0.000	6.4	6.5	4.3	ST
160	7/6/2006	536	2801.4	9357.5	17	72	37	72	28.1	27.0	20.3	35.5	36.5	36.5	0.000	6.3	6.5	4.2	ST
161	7/6/2006	655	2758.9	9357.6															ST
162	7/6/2006	930	2803.2	9341.2	17	90	45	89	28.5	22.7	18.7	33.5	36.3	36.4	0.000	6.4	6.6	4.1	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
163	7/6/2006	1259	2805.4	9350.5	17	74	37	73	28.5	23.5	20.1	33.8	36.0	36.5	0.000	6.5	6.7	3.8	ST
164	7/6/2006	1421	2807.7	9350.9	17														ST
165	7/6/2006	1540	2810.1	9351.4	17														ST
166	7/6/2006	1827	2814.0	9334.7	17	65	32	63	28.7	24.4	20.1	33.9	35.9	36.5	0.000	6.3	6.5	4.4	ST
167	7/6/2006	1944	2816.0	9333.5	17														ST
168	7/6/2006	2104	2818.3	9332.5	17														ST
169	7/6/2006	2159	2821.3	9332.0	17														ST
170	7/6/2006	2321	2823.7	9332.4	17														ST
171	7/7/2006	43	2826.1	9332.4	17	47	24	46	28.7	26.8	21.6	33.9	35.6	36.3	0.000	6.4	6.6	5.5	ST
172	7/7/2006	413	2812.3	9313.7	17	66	32	63	28.5	26.0	20.9	34.6	36.2	36.4	0.000	6.3	6.4	4.9	ST
173	7/7/2006	531	2814.3	9314.8	17														ST
174	7/7/2006	707	2821.6	9318.9	17	55	27	54	28.7	26.1	20.9	33.6	35.8	36.3	0.000	6.3	6.5	4.8	ST
175	7/7/2006	821	2823.6	9320.2	17														ST
176	7/7/2006	939	2825.9	9321.0	17														ST
177	7/7/2006	1105	2830.1	9326.1	17	43	21	42	28.6	27.7	21.8	33.7	35.2	36.2	0.000	6.3	6.4	4.6	PN
178	7/7/2006	1357	2847.7	9315.9	17	28	13	26	28.7	29.1	26.5	32.9	33.7	35.6	0.000	6.4	6.4	5.4	ST
179	7/7/2006	1514	2849.7	9317.3	17														ST
180	7/7/2006	1829	2839.5	9341.3	17	30	15	28	28.3	28.8	28.1	33.7	34.4	35.3	0.000	6.4	6.4	6.7	ST
181	7/7/2006	1929	2836.5	9339.1	17	34	16	31	29.1	28.8	25.0	34.2	34.5	36.1	0.000	6.4	6.4	6.2	ST
182	7/7/2006	2105	2835.4	9332.5	17	36	18	34	29.1	28.6	24.7	33.8	34.2	36.1	0.000	6.4	6.4	5.7	ST
183	7/7/2006	2219	2833.4	9331.3	17														ST
184	7/8/2006	118	2838.9	9339.3	17	33	16	31	28.8	28.8	25.1	32.9	34.5	36.0	0.000	6.4	6.4	5.7	ST
185	7/8/2006	358	2844.1	9333.4	17	28	13	24	29.4	28.9	26.7	32.5	33.2	35.5	0.000	6.4	6.4	5.4	ST
186	7/8/2006	458	2847.0	9333.3	17														ST
187	7/8/2006	714	2859.3	9328.8	17	25	13	24	29.4	29.0	26.6	30.9	32.4	35.4	0.000	5.9	5.6	3.7	PN
188	7/8/2006	858	2911.5	9331.4	17	19	9	18	29.0	29.1	27.8	31.1	31.8	34.5	0.000	6.6	6.3	4.2	ST
189	7/8/2006	1122	2909.2	9331.4	17	20	9	18	29.1	29.2	28.1	31.3	31.7	34.6	0.000	6.5	6.5	5.3	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
190	7/8/2006	1232	2911.5	9331.5	17	16	8	15	28.9	28.9	28.4	30.9	31.1	33.9	0.000	6.5	6.5	4.1	ST
191	7/8/2006	1445	2918.3	9334.0	17	14	7	13	29.4	29.0	28.9	31.0	31.2	31.4	0.000	6.5	6.1	4.3	ST
192	7/8/2006	1640	2927.3	9330.5	17	13	7	12	29.8	29.0	28.9	30.6	30.7	30.7	0.000	6.5	6.3	5.9	ST
193	7/8/2006	1749	2929.2	9329.1	17														ST
194	7/8/2006	1901	2930.1	9329.4	17	12	5	8	29.3	29.0	29.0	30.1	30.2	30.6	0.000	8.1	6.9	5.9	PN
195	7/8/2006	2018	2926.7	9321.4	17	9	4	7	29.7	29.2	28.9	29.2	29.5	30.4	0.000	9.3	8.4	5.9	ST
196	7/8/2006	2255	2919.7	9306.3	17	17	7	14	29.9	29.5	26.9	29.8	30.1	35.1	0.000	6.9	7.0	1.0	ST
197	7/9/2006	124	2929.2	9300.2	17	14	7	12	30.1	29.3	29.2	29.8	30.5	31.4	0.000	9.5	6.6	1.9	PN
198	7/9/2006	252	2935.4	9249.3	16	12	6	9	30.1	29.3	29.1	26.7	29.7	30.8	0.000	7.7	4.2	3.0	ST
199	7/9/2006	530	2928.4	9237.3	16	13	6	11	30.8	30.9	29.3	26.5	28.6	32.7	0.000	7.8	7.4	2.5	ST
200	7/9/2006	925	2907.8	9223.6	16	18	9	18	29.8	29.7	26.8	30.9	33.5	35.5	0.000	7.0	6.4	2.7	ST
201	7/9/2006	1039	2902.2	9225.0	16	25	13	24	29.7	27.3	25.7	30.5	35.1	36.0	0.000	7.0	5.4	5.0	ST
202	7/9/2006	1315	2903.5	9233.1	16	24	13	24	29.8	27.3	25.7	31.7	35.1	31.6		6.7	3.0	1.8	PN
203	7/9/2006	1620	2903.3	9214.2	16	20	10	19	30.5	29.8	26.7	31.5	33.5	35.7	0.000	6.9	6.3	4.3	ST
204	7/9/2006	1823	2853.3	9223.0	16	30	16	29	29.9	29.1	26.5	34.6	35.2	35.8	0.000	6.4	6.5	6.6	ST
205	7/9/2006	2155	2854.5	9246.8	16	26	11	22	30.0	29.7	26.7	31.2	32.6	35.2	0.000	6.7	6.2	3.1	ST
206	7/9/2006	2310	2855.7	9249.3	16														ST
207	7/10/2006	115	2848.6	9254.1	16	28	13	24	30.1	29.1	26.7	31.5	33.8	35.6	0.000	6.7	6.1	5.4	ST
208	7/10/2006	337	2844.7	9243.6	16	31	15	29	29.9	27.1	25.8	30.8	35.0	36.0	0.000	7.0	4.0	5.2	ST
209	7/10/2006	628	2835.6	9233.4	16	37	19	36	30.1	28.8	24.4	30.6	35.5	36.2	0.000	6.7	6.3	6.2	ST
210	7/10/2006	743	2836.0	9233.3	16	37	18	35	30.0	28.8	24.7	30.9	35.4	36.1	0.000	6.7	6.4	6.4	ST
211	7/10/2006	855	2838.4	9233.3	16														ST
212	7/10/2006	1027	2834.2	9232.8	16	47	23	46	29.5	28.1	21.5	31.8	35.6	36.2	0.000	6.5	6.5	5.9	PN
213	7/10/2006	1238	2834.2	9232.7	16	40	19	38	29.8	28.9	22.5	32.5	35.4	36.3	0.000	6.3	6.4	6.0	ST
214	7/10/2006	1722	2803.9	9249.1	16	89	44	87	29.1	25.1	19.9	34.1	36.5	36.5	0.000	6.5	6.8	4.2	ST
215	7/11/2006	27	2809.9	9245.0	16	73	36	71	29.4	25.5	20.3	34.3	36.3	36.5	0.000	6.4	6.6	3.9	ST
216	7/11/2006	458	2817.5	9204.9	16	64	31	61	29.4	25.7	20.8	35.2	36.4	36.4	0.000	6.2	6.6	5.0	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
217	7/11/2006	822	2805.7	9203.9	16	89	44	87	29.1	23.6	19.5	35.5	36.3	36.5	0.000	6.3	6.8	4.2	ST
218	7/11/2006	1018	2803.6	9156.3	15	88	43	86	29.1	23.2	19.7	35.0	36.3	36.5	0.000	6.3	6.7	4.0	ST
219	7/11/2006	1346	2759.1	9147.7		109	53	106	29.1	23.2	18.1	35.3	36.5	36.4	0.000	6.4	6.8	4.3	ST
220	7/11/2006	1605	2759.6	9158.9		119	59	118	29.0	23.1	18.2	36.3	36.5	36.4	0.000	6.4	6.7	4.1	PN
221	7/11/2006	1805	2805.7	9203.9	16	95	45	90	29.2	24.0	19.2	35.5	36.3	36.5	0.000	6.4	6.8	4.0	ST
222	7/11/2006	2107	2818.9	9152.8	15	66	34	66	29.7	23.8	20.8	35.1	36.4	35.4	0.000	6.3	6.8	4.5	ST
223	7/11/2006	2345	2828.9	9159.6	15	50	24	47	30.2	28.5	21.6	34.3	36.3	36.4	0.000	6.3	6.4	5.8	PN
224	7/12/2006	111	2832.7	9155.4	15	46	21	42	30.5	27.0	23.1	31.0	35.7	36.4	0.000	6.6	6.2	6.3	ST
225	7/12/2006	308	2842.2	9159.0	15	34	16	31	30.5	26.5	24.2	30.9	35.8	36.2	0.000	6.7	5.5	4.8	ST
226	7/12/2006	451	2851.8	9159.3	15	26	12	23	30.5	29.5	25.2	31.3	33.9	36.1	0.000	7.0	5.7	4.3	ST
227	7/12/2006	705	2851.4	9213.5	16	29	15	29	30.2	29.2	25.8	32.9	35.2	36.0	0.000	6.5	6.4	4.1	ST
228	7/12/2006	903	2858.4	9210.0	16	24	11	21	29.7	29.2	26.6	33.0	35.1	35.7	0.000	6.5	6.4	5.6	ST
229	7/12/2006	948	2900.5	9209.4	16	21	10	19	29.9	28.7	26.3	30.8	34.2	35.8	0.000	7.0	5.3	4.5	ST
230	7/12/2006	1042	2900.5	9209.4	16														ST
231	7/12/2006	1248	2900.3	9201.8	16	20	10	19	30.1	30.1	26.4	32.0	32.8	35.7	0.000	6.6	6.3	2.2	PN
232	7/12/2006	1358	2858.7	9155.4	15	20	9	18	30.2	30.2	26.7	31.2	32.7	35.7	0.000	6.9	6.5	1.5	ST
233	7/12/2006	1637	2858.5	9140.3	15	16	8	15	30.4	30.2	27.8	30.3	31.4	35.0	0.000	7.2	5.8	0.6	ST
234	7/12/2006	1854	2859.4	9131.8	15	13	5	10	30.9	30.2	28.6	28.6	28.7	34.6	0.000	6.8	6.7	1.2	PN
235	7/12/2006	2109	2845.6	9131.2	15	24	12	22	30.2	29.3	25.7	32.5	35.1	36.1	0.000	6.7	6.5	5.0	ST
236	7/12/2006	2254	2840.2	9126.6	15	28	13	24	29.9	29.3	25.7	33.9	35.3	36.1	0.000	6.6	6.5	5.1	ST
237	7/13/2006	102	2829.6	9130.2	15	46	22	42	29.6	27.1	22.7	34.7	36.0	36.4	0.000	6.4	6.8	6.6	PN
238	7/13/2006	224	2832.5	9121.6	15	37	17	33	30.4	29.1	24.6	33.6	35.2	36.3	0.000	6.5	6.5	4.8	ST
239	7/13/2006	515	2837.9	9106.0	15	20	11	20	30.1	28.1	26.5	32.9	35.6	36.1	0.000	6.6	5.4	2.3	ST
240	7/13/2006	659	2846.5	9106.9	15	12	6	11	30.0	30.1	28.8	31.3	32.1	34.9	0.000	6.6	6.0	3.4	ST
241	7/13/2006	954	2847.7	9058.3	14	14	7	13	24.1	24.1	24.1	30.6	34.1	35.7	0.000	6.8	5.0	0.2	ST
242	7/13/2006	1209	2836.2	9049.9	14	20	10	19	24.1	24.1	24.1	33.0	35.3	35.9	0.000	6.4	6.5	5.9	ST
243	7/13/2006	1351	2831.6	9055.6	14	29	15	29	24.1	24.1	24.1	32.8	35.6	36.2	0.000	6.4	6.4	4.6	PN

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
244	7/13/2006	1517	2828.1	9046.3	14	37	19	36	30.5	28.4	24.1	32.7	35.7	36.4	0.000	6.6	6.2	1.3	ST
245	7/13/2006	1638	2828.7	9041.4	14	37	18	35	30.6	27.3	24.2	32.2	35.7	36.4	0.000	6.6	3.0	1.8	ST
246	7/13/2006	1818	2826.1	9040.3	14	40	20	38	30.4	27.5	24.1	32.3	35.9	36.4	0.000	6.7	4.3	2.8	ST
247	7/13/2006	2033	2816.0	9031.3	14	64	31	60	29.8	26.0	21.2	35.8	36.2	36.4	0.000	6.5	7.0	5.0	ST
248	7/14/2006	16	2811.9	9057.2	14	82	39	78	30.1	26.7	20.6	35.3	36.3	36.5	0.000	6.5	6.9	5.0	ST
249	7/14/2006	328	2810.4	9035.1	14	93	45	90	30.0	24.8	19.7	35.5	36.4	36.5	0.000	6.4	7.0	4.4	ST
250	7/14/2006	533	2812.4	9027.2	14	85	42	83	29.4	25.0	19.7	35.7	36.4	36.5	0.000	6.4	6.9	4.2	ST
251	7/14/2006	659	2816.7	9026.3	14	65	32	63	29.9	26.3	21.2	35.7	36.2	36.4	0.000	6.5	7.0	5.0	ST
252	7/14/2006	939	2833.2	9030.8	14	33	17	32	30.5	27.5	25.0	31.5	36.3	36.3	0.000	7.0	6.0	1.5	ST
253	7/14/2006	1044	2837.3	9030.9	14	21	10	19	30.2	28.4	26.3	30.1	35.5	36.1	0.000	7.4	5.7	2.0	ST
254	7/14/2006	1233	2831.4	9026.1	14	39	20	39	30.4	26.3	23.7	31.6	36.1	36.4	0.000	7.0	6.7	2.3	PN
255	7/14/2006	1406	2834.3	9015.6	14	46	22	43	30.3	26.4	22.9	33.7	36.2	36.4	0.000	6.5	5.8	3.3	ST
256	7/14/2006	1637	2838.3	9023.1	14	26	13	25	31.1	27.1	26.2	30.7	36.1	36.2	0.000	7.2	6.3	3.2	ST
257	7/14/2006	1701	2839.2	9023.4	14	21	11	20	30.8	27.0	26.6	33.0	36.1	36.1	0.000	6.8	4.8	3.0	ST
258	7/14/2006	1946	2854.1	9038.6	14	10	5	9	30.4	30.2	28.7	28.6	34.9	35.6	0.000	7.5	6.6	5.1	ST
259	7/14/2006	2204	2858.6	9029.6	14	14	6	11	31.1	30.3	29.7	31.1	33.8	34.9	0.000	7.6	7.1	5.9	PN
260	7/14/2006	2334	2859.2	9018.4	14	16	7	14	33.0	29.7	28.1	29.0	34.1	35.7	0.000	9.5	5.5	3.8	ST
261	7/15/2006	106	2859.2	9018.4	14	16	7	13	31.7	29.8	28.1	31.7	34.5	35.6	0.000	7.3	6.1	3.6	ST
262	7/15/2006	248	2856.7	9015.6	14	19	10	17	31.3	30.0	28.2	27.6	34.8	35.8	0.000	8.6	6.8	4.1	ST
263	7/15/2006	432	2855.1	9015.7	14	20	10	18	30.6	29.9	28.5	31.4	34.9	35.9	0.000	7.0	6.6	5.7	ST
264	7/15/2006	619	2850.1	9011.0	14	26	13	25	30.0	29.4	26.4	30.8	35.4	36.2	0.000	4.9	5.8	4.3	ST
265	7/15/2006	825	2846.7	8957.5	13	45	22	43	30.8	25.9	22.4	31.1	36.3	36.4	0.000	8.5	6.5	2.8	ST
266	7/15/2006	1219	2901.4	9000.1	14	24	11	22	31.3	29.6	26.7	24.7	34.6	36.2	0.000	8.9	5.3	3.7	PN
267	7/15/2006	1406	2911.6	8959.9	13	12	5	10	31.3	31.1	28.3	23.7	26.5	35.5	0.000	8.0	7.8	1.3	ST
268	7/15/2006	1611	2904.3	8947.3	13	30	15	29	31.0	29.2	25.5	25.6	34.9	36.1	0.000	8.5	3.8	0.9	ST
269	7/15/2006	1647	2903.7	8947.1	13	34	17	32	31.1	28.0	25.1	26.2	35.5	36.2	0.000	8.6	2.3	1.6	ST
270	7/15/2006	1840	2901.1	8937.3	13	30	14	27	31.2	29.3	27.0	25.5	35.8	36.2	0.000	8.6	6.5	5.5	ST

Table 2. Selected environmental parameters (continued)

OREGON II, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
271	7/15/2006	2009	2859.6	8930.6	13	16	8	14	31.4	29.6	28.9	26.0	34.3	35.4	0.000	8.6	4.9	3.3	PN
272	7/15/2006	2214	2850.3	8932.8	13	72	35	68	30.6	25.4	21.0	31.2	36.4	36.4	0.000	6.7	7.0	4.4	ST
273	7/16/2006	140	2909.6	8931.4	13	12	5	9	31.1	29.5	28.5	25.6	32.8	35.1	0.000	6.8	2.5	0.5	ST
274	7/16/2006	348	2903.6	8940.2	13	27	12	25	32.0	30.1	28.4	25.3	34.9	36.0	0.000	8.4	6.3	5.7	ST
275	7/16/2006	419	2903.3	8940.7	13	33	15	30	32.0	29.7	27.2	23.4	35.7	36.1	0.000	9.8	6.4	4.0	ST
276	7/16/2006	659	2856.7	8955.1	13	34	17	32	31.0	29.3	25.0	25.8	35.7	36.2	0.000	8.8	6.2	1.7	ST
277	7/16/2006	906	2847.1	8948.9	13	66	33	64	30.4	25.8	21.4	33.1	36.4	36.4	0.000	6.7	7.0	2.5	ST
278	7/16/2006	1241	2829.7	9000.2	14	93	47	92	30.1	23.0	19.2	35.0	36.4	36.4	0.000	6.4	6.8	4.2	PN

Table 2. Selected environmental parameters (continued)

TOMMY MUNRO, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	6/6/2006	1214	2946.5	8849.2	11	6	3	5	27.6	27.6	27.5	30.4	31.4	31.1		6.5	6.3	6.3	ST
2	6/6/2006	1535	2937.3	8828.3	11	40	20	40	27.0	23.4	27.7	34.6	35.0	36.0		6.3	7.3	6.1	ST
3	6/6/2006	1741	2930.9	8836.8	11	37	18	36	27.7	24.9	23.5	33.6	36.0	34.9		6.2	6.6	4.8	ST
4	6/6/2006	1933	2929.8	8843.3	11	18	9	17	27.8	25.9	24.6	33.5	35.1	36.0		6.1	6.1	6.8	ST
5	6/6/2006	2045	2926.0	8847.6	11	23	11	22	28.2	24.9	24.5	33.1	36.0	36.2		6.2	6.1	6.6	ST
6	6/7/2006	127	2922.9	8846.7	11	38	19	37	28.2	24.4	23.0	28.8	35.6	35.2		7.7	6.3	5.8	ST
7	6/7/2006	417	2925.6	8842.3	11	41	20	40	28.3	24.2	21.9	27.8	35.9	35.5		8.1	6.6	5.3	ST
8	6/7/2006	635	2924.9	8840.7	11	47	23	46	27.8	23.8	21.4	28.8	36.2	36.0		7.8	6.7	4.8	ST
9	6/7/2006	832	2928.7	8843.7	11	16	8	15	26.7	25.1	24.0	30.5	36.1	36.0		6.6	6.2	6.5	ST
10	6/7/2006	1805	2944.2	8827.2	11	35	17	34	28.2	22.5	22.6	33.7	35.9	35.8		6.2	6.2	4.3	ST
11	6/7/2006	1947	2944.0	8830.9	11	31	15	30	29.0	23.2	22.6	33.4	35.8	35.8		6.2	6.2	4.3	ST
12	6/7/2006	2131	2948.4	8835.5	11	24	12	23	28.9	22.9	22.9	33.0	35.5	35.7		6.5	6.3	5.4	ST
13	6/8/2006	111	2943.2	8837.0	11	23	11	22	27.9	23.4	22.1	33.2	35.9	35.9		6.6	6.4	5.2	ST
14	6/8/2006	319	2948.7	8827.4	11	32	16	31	27.7	23.0	21.7	34.0	36.2	35.7		6.2	6.4	5.2	ST
15	6/8/2006	550	2952.3	8829.9	11	29	14	28	27.7	22.4	22.2	31.9	35.9	36.0		6.0	6.0	5.5	ST
16	6/8/2006	824	3007.1	8830.1	11	15	7	14	27.3	26.7	23.3	31.9	33.1	35.4		6.3	6.1	6.1	ST
17	6/8/2006	1753	2955.8	8832.1	11	24	12	23	29.0	24.0	22.7	31.3	35.8	35.6		6.2	6.3	5.4	ST
18	6/8/2006	2005	2952.3	8844.3	11	11	5	10	28.7	27.8	24.9	31.9	32.2	34.8		6.3	6.3	5.8	ST
19	6/8/2006	2124	2951.8	8845.5	11	10	5	10	29.1	28.0	25.7	32.3	32.3	34.4		6.4	6.4	5.7	ST
21	7/3/2006	1520	2909.9	9004.9	14	6	3	5	30.1	29.8	30.0	22.5	22.9	22.8		5.3	5.2	5.3	ST
22	7/3/2006	2010	2903.9	9015.3	14	7	3	7	30.0	29.7	29.8	22.0	22.0	24.2		5.3	5.5	4.7	ST
23	7/4/2006	56	2900.5	9049.6	14	5	3	5	29.9	29.7	29.8	25.3	25.3	25.4		5.2	5.3	5.2	ST
24	7/4/2006	936	2900.4	9050.9	14	5	3	5	30.4	30.3	30.6	25.6	25.5	25.8		5.2	5.2	5.1	ST
25	7/4/2006	1621	2909.2	9155.2	15	5	3	5	30.5	30.4	30.2	31.0	30.9	31.3		6.6	5.9	5.7	ST
26	7/4/2006	1930	2911.7	9218.8	16	5	3	5	30.1	30.1	30.1	30.9	30.8	30.9		6.3	6.7	6.6	ST
27	7/4/2006	2138	2913.2	9206.4	16	5	3	5	29.7	29.7	29.7	29.6	29.6	30.1		5.9	5.4	5.2	ST
28	7/5/2006	11	2921.3	9154.2	15	5	3	5	30.0	29.6	29.7	17.8	18.1	18.4		10.2	7.1	7.4	ST

Table 2. Selected environmental parameters (continued)

TOMMY MUNRO, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE		POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
	MM/DD/YY	TIME	LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
29	7/5/2006	1217	2941.5	9346.5	17	5	3	5	27.7	27.5	27.6	27.2	27.1	27.7		5.3	5.6	5.9	ST
30	7/5/2006	2039	2943.8	9309.2	17	5	3	5	28.8	28.9	28.8	25.5	25.4	25.3		4.8	5.2	5.1	ST

Table 2. Selected environmental parameters (continued)

PELICAN, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
35001	6/20/2006	856	2860.0	9030.0	14	9	5	9	29.7	29.7	28.9	26.9	27.0	32.6	6.693	5.1	5.0	2.7	PN
35002	6/20/2006	1235	2860.0	9060.0	14	5	3	5	30.7	30.3	30.1	29.9	29.8	29.9	2.594	4.6	4.4	4.1	PN
35003	6/20/2006	1555	2900.0	9130.0	15	9	5	9	30.6	30.5	29.9	31.5	31.6	31.7	1.027	4.6	4.6	4.2	PN
35004	6/20/2006	1844	2849.1	9119.5	15	11	5	11	30.2	29.9	28.4	31.8	31.9	33.8	0.759	6.4	6.4	2.6	ST
35005	6/20/2006	2111	2849.0	9119.5	15	11	5	11	30.2	29.9	28.4	31.8	31.9	33.8	0.759	6.4	6.4	2.6	ST
35006	6/20/2006	2252	2846.9	9122.6	15	16	7	16	29.4	29.3	26.2	33.1	33.3	35.9	0.231	6.1	6.0	3.5	ST
35007	6/21/2006	55	2845.3	9124.2	15	19	10	19	29.3	28.7	25.6	33.3	35.1	36.1	0.247	6.1	6.3	3.2	ST
35008	6/21/2006	333	2834.8	9121.9	15	31	15	31	28.6	27.1	24.4	35.5	35.9	36.3		6.2	6.6	4.2	ST
35009	6/21/2006	1337	2830.0	9100.1	15	31	15	31	29.9	25.9	23.6	31.4	36.1	36.3	1.062	6.1	4.7	4.3	PN
35010	6/21/2006	1704	2830.0	9030.0	14	37	18	37	30.0	26.6	23.6	35.3	36.2	36.4	0.002	6.2	6.7	4.7	PN
35011	6/21/2006	1821	2831.3	9031.3	14	34	17	34	30.0	26.8	23.9	35.4	36.3	36.4	0.087	6.2	6.7	4.2	ST
35012	6/21/2006	2132	2831.7	9031.3	14	33	17	33	29.6	27.0	24.1	35.5	36.2	36.4	0.313	6.1	6.6	4.4	ST
35013	6/22/2006	129	2856.1	9023.1	14	15	8	15	29.7	29.0	25.7	26.9	34.3	36.2	4.777	6.2	6.1	3.4	ST
35014	6/22/2006	453	2906.2	9006.2	14	12	6	12	29.9	29.5	24.8	28.2	33.4	35.3	7.848	7.6	5.8	0.2	ST
35015	6/22/2006	722	2905.9	9006.2	14	9	6	9	30.1	29.9	25.5	23.4	32.6	34.1	10.640	7.5	5.8	0.2	ST
35016	6/22/2006	1010	2856.0	9023.1	14	15	8	15	30.5	29.2	25.4	26.2	34.5	36.2	4.166	6.5	6.1	2.7	ST
35017	6/22/2006	1303	2854.7	9008.9	14	24	12	24	31.0	26.7	24.6	25.9	36.1	36.3	7.263	8.6	6.4	3.7	ST
35018	6/22/2006	1445	2900.0	9000.1	14	23	12	23	30.2	28.1	24.9	32.6	36.0	36.0	1.130	6.9	6.3	2.0	PN
35019	6/22/2006	1621	2858.2	8956.4	13	29	16	29	32.0	27.4	24.4	25.5	36.0	36.3	6.088	9.0	5.8	3.7	ST
35020	6/22/2006	1853	2902.6	8943.7	13	33	15	33	30.3	27.8	24.2	22.7	36.0	36.3	9.516	7.0	4.2	2.3	ST
35021	6/22/2006	2237	2855.3	9006.0	14	24	12	24	33.7	27.6	24.7	31.0	36.0	36.2	1.745	7.2	6.1	3.4	ST
35022	6/23/2006	40	2858.2	8956.2	13	29	15	29	29.7	28.4	24.6	30.3	36.1	36.3	6.429	8.1	6.2	4.3	ST
35023	6/23/2006	255	2902.6	8943.4	13	33	16	33	30.8	28.5	24.1	23.4	36.1	36.3	9.007	7.5	6.2	2.3	ST
35024	6/23/2006	442	2906.1	8941.7	13	20	9	20	30.4	27.6	25.4	22.8	32.7	36.1	8.477	8.0	1.9	4.5	ST
35025	6/23/2006	734	2905.7	8941.6	13	20	10	20	30.5	26.6	25.2	22.7	33.8	36.2	10.432	7.9	2.1	4.8	ST
35026	6/23/2006	913	2860.0	8930.0	13	14	7	14	30.5	26.1	26.0	21.9	34.1	36.1	9.430	7.8	0.4	4.3	PN

Table 2. Selected environmental parameters (continued)

A.E. VERRILL, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	6/1/2006	1034	3011.5	8817.5	11	13	7	13	29.4	21.3	25.0	27.3	36.0	32.9		6.5	5.6	6.4	ST
2	6/1/2006	1147	3007.0	8822.4	11	16	8	16	29.4	21.1	25.1	29.2	36.1	35.2		6.2	6.0	6.5	ST
3	6/1/2006	1323	3003.6	8815.3	11	20	10	20	29.0	21.4	22.9	32.3	36.1	35.9		6.7	6.2	6.8	ST
4	6/1/2006	1448	2958.8	8812.3	11	30	15	30	30.2	20.3	21.4	32.2	36.4	36.4		6.7	3.9	6.4	ST
5	6/1/2006	1651	2949.7	8820.2	11	35	18	35	28.8	21.2	23.6	33.1	36.9	36.5		6.5	4.3	6.4	ST
6	6/1/2006	1803	2952.1	8820.1	11	35	18	35	28.8	21.2	23.6	33.1	36.9	36.5		6.5	4.3	6.4	ST
7	6/1/2006	2008	3000.4	8821.1	11	28	14	28	29.7	20.2	22.5	33.2	36.6	36.5		6.4	4.1	6.4	ST
8	6/1/2006	2044	3001.5	8820.4	11	26	13	26	29.1	20.5	22.2	33.3	36.4	36.3		6.5	5.2	6.3	ST
9	6/15/2006	1923	3011.7	8800.7	11	7	4	7	29.4	28.7	29.3	31.0	32.5	31.5		6.2	6.4	6.2	ST
10	6/15/2006	2037	3005.7	8800.9	11	20	10	20	28.8	25.6	28.3	33.2	34.6	33.2		6.4	4.9	6.5	ST
11	6/15/2006	2242	3006.6	8806.1	11	19	10	19	29.2	26.3	28.6	31.7	34.4	33.1		6.3	4.9	6.3	ST

Table 2. Selected environmental parameters (continued)

MATAGORDA BAY, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
32001	6/5/2006	936	2826.5	9616.4	19	8	4	8	27.4	27.4	26.1	33.0	33.9	34.0		6.5	6.4	5.1	ST
32002	6/5/2006	1015	2824.5	9613.4	19	14	7	14	27.1	26.6	26.0	32.9	34.0	34.2		6.6	6.1	5.2	ST
32003	6/5/2006	1059	2824.5	9609.6	19	16	8	16	27.3	26.7	26.1	32.8	34.0	34.3		6.8	6.6	5.2	ST
32004	6/5/2006	1154	2827.5	9603.4	19	15	7	15	26.5	26.6	26.2	33.2	34.0	34.2		6.4	6.3	5.3	ST
32005	6/5/2006	1312	2821.5	9613.7	19	17	8	17	28.1	26.5	26.2	33.8	34.0	34.4		6.7	6.3	5.2	ST
32006	6/5/2006	1347	2821.5	9614.4	19	16	8	16	28.4	26.4	26.2	34.4	34.2	33.3		6.5	6.2	5.2	ST
32007	6/5/2006	1420	2819.5	9615.6	19	18	9	18	28.3	26.4	26.1	33.2	34.0	34.6		6.7	6.1	4.7	ST
32008	6/5/2006	1503	2819.6	9619.6	19	15	8	15	28.4	26.4	26.0	33.2	34.1	34.2		6.7	6.2	5.4	ST
32009	6/26/2006	951	2817.5	9618.5	19	19	9	19	29.1	28.9	28.5	35.0	35.2	35.5		5.8	5.9	5.6	ST
32010	6/26/2006	1022	2817.5	9619.5	19	18	9	18	29.2	29.0	28.4	34.9	35.3	35.5		5.8	5.9	5.6	ST
32011	6/26/2006	1058	2815.6	9618.6	19	21	10	21	29.0	28.9	28.6	35.2	35.3	35.6		5.8	5.9	5.8	ST
32012	6/26/2006	1147	2814.5	9623.7	19	18	9	18	29.1	29.0	28.6	35.3	35.4	35.6		5.7	5.9	6.0	ST
32013	6/26/2006	1228	2813.5	9626.5	19	16	8	16	29.4	29.2	29.0	34.8	35.4	35.6		5.9	6.0	6.2	ST
32014	6/26/2006	1314	2811.4	9623.5	19	21	11	21	29.1	28.9	28.4	35.5	35.6	35.8		5.8	6.0	5.9	ST
32015	6/26/2006	1346	2811.6	9622.5	19	22	11	22	29.1	28.8	28.4	35.6	35.6	35.9		5.8	6.0	5.9	ST
32016	6/26/2006	1421	2811.5	9620.6	19	23	11	23	29.1	28.8	28.4	35.6	35.5	35.8		5.7	6.1	6.1	ST

Table 2. Selected environmental parameters (continued)

TRINITY BAY, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
65001	6/3/2006	733	2603.6	9707.5	21	15	7	15	25.8	25.7	25.7	36.5	36.7	36.9		5.2	5.2	4.9	ST
65002	6/3/2006	825	2558.1	9706.5	22	15	8	15	25.4	25.4	25.4	36.5	36.5	36.8		5.0	5.0	4.7	ST
65003	6/3/2006	905	2600.6	9705.6	21	18	9	18	25.8	25.6	25.5	36.6	36.7	36.8		5.0	5.0	4.8	ST
65004	6/3/2006	945	2602.2	9703.5	21	22	11	22	25.4	25.4	25.2	36.6	36.8	37.0		5.1	5.1	4.7	ST
65005	6/3/2006	1041	2603.5	9659.6	21	27	14	27	25.5	25.4	24.4	36.5	36.9	36.9		5.2	4.9	4.5	ST
65006	6/3/2006	1123	2605.3	9659.5	21	27	13	27	25.9	25.3	24.5	36.5	36.9	36.9		5.1	4.9	4.6	ST
65007	6/3/2006	1216	2604.5	9703.6	21	21	11	21	25.7	25.6	25.4	36.6	36.8	37.0		5.0	5.1	4.8	ST
65008	6/3/2006	1248	2605.2	9703.5	21	21	11	21	26.0	25.7	25.4	36.7	36.6	36.9		5.0	5.1	4.8	ST
65009	6/23/2006	805	2604.4	9707.5	21	15	8	15	26.1	25.0	24.0	36.8	36.8	36.9		5.6	5.6	5.8	ST
65010	6/23/2006	849	2606.9	9705.4	21	19	10	19	26.2	25.4	23.9	36.8	36.8	36.8		5.8	5.7	5.8	ST
65011	6/23/2006	923	2607.5	9705.5	21	19	10	19	26.2	25.5	23.9	36.8	36.9	36.8		5.8	5.7	5.6	ST
65012	6/23/2006	1036	2616.8	9703.5	21	21	10	21	26.7	26.0	24.0	36.8	36.8	36.8		5.8	5.7	5.5	ST
65013	6/23/2006	1115	2617.4	9701.5	21	26	13	26	26.7	25.3	23.8	36.9	36.8	36.8		5.7	5.6	5.5	ST
65014	6/23/2006	1151	2618.8	9702.5	21	23	11	23	26.8	26.0	23.9	36.9	36.9	36.8		5.8	5.7	5.7	ST
65015	6/23/2006	1235	2621.3	9704.5	21	22	11	22	26.9	25.7	24.1	36.8	36.8	36.8		5.8	5.8	5.8	ST
65016	6/23/2006	1320	2618.7	9707.5	21	18	9	18	26.8	25.2	24.5	36.8	36.8	36.7		5.7	5.8	5.9	ST

Table 2. Selected environmental parameters (continued)

SAN JACINTO, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
69001	6/5/2006	810	2922.2	9440.4	18	7	4	7	27.8	28.1	27.7	31.3	31.3	31.6		6.7	6.5	5.3	ST
69002	6/5/2006	853	2918.8	9443.2	18	5	3	5	28.5	28.6	28.6	31.6	31.6	31.6		6.9	6.9	7.1	ST
69003	6/5/2006	925	2916.3	9444.7	18	8	4	8	28.1	28.1	27.5	31.4	31.4	32.2		7.4	7.5	5.1	ST
69004	6/5/2006	1002	2917.3	9440.7	18	8	4	8	28.5	27.8	27.3	31.0	31.3	32.0		7.6	5.9	4.8	ST
69005	6/5/2006	1032	2915.7	9440.3	18	11	6	11	28.6	27.9	27.0	31.0	31.1	32.9		7.4	6.5	4.2	ST
69006	6/5/2006	1111	2913.2	9442.7	18	12	6	12	29.3	28.5	27.6	31.4	32.1	33.4		6.8	6.1	3.9	ST
69007	6/5/2006	1239	2917.3	9446.2	18	15	8	15	28.8	28.0	27.4	33.6	33.6	34.2		6.7	6.3	4.2	ST
69008	6/5/2006	1636	2920.4	9435.1	18	11	6	11	29.7	29.1	27.9	31.2	31.2	31.4		7.1	6.6	3.9	ST
69009	6/27/2006	1105	2925.3	9440.4	18	9	5	9	29.7	29.8	29.9	31.4	31.4	31.4		5.6	5.3	5.0	ST
69010	6/27/2006	1140	2926.6	9438.2	18	3	1	3	29.8	29.9	29.8	31.3	31.2	31.2		6.4	5.9	5.8	ST
69011	6/27/2006	1300	2928.4	9432.9	18	6	3	6	31.8	30.4	30.4	31.3	31.5	31.4		6.5	6.9	6.2	ST
69012	6/27/2006	1333	2927.8	9432.5	18	7	3	7	30.3	30.5	30.6	31.6	31.4	31.4		6.2	6.3	6.1	ST
69013	6/27/2006	1423	2923.3	9431.0	18	11	6	11	30.9	29.9	29.3	31.6	31.6	32.2		6.2	6.5	5.4	ST
69014	6/27/2006	1505	2920.8	9431.5	18	12	6	12	30.3	29.9	29.3	31.6	31.6	32.4		6.6	6.6	7.0	ST
69015	6/27/2006	1546	2923.3	9435.9	18	9	5	9	30.1	29.9	29.5	31.8	31.8	31.8		6.7	6.8	6.5	ST
69016	6/27/2006	1615	2923.8	9437.5	18	8	4	8	30.5	29.9	29.8	31.5	31.4	31.4		6.5	6.5	6.4	ST

Table 2. Selected environmental parameters (continued)

SABINE, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE		POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
	MM/DD/YY	TIME	LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
40001	6/5/2006	913	2934.2	9349.7	17	11	6	11	28.1	28.2	27.9	21.9	30.0	31.6		6.2	6.7	5.9	ST
40002	6/5/2006	1023	2940.2	9351.2	17	2	1	2	29.1	28.9	28.8	24.5	24.9	24.9		5.5	5.4	4.9	ST
40003	6/5/2006	1114	2937.5	9353.8	17	5	3	5	29.1	28.0	27.7	24.9	25.8	27.6		6.3	4.6	3.7	ST
40004	6/5/2006	1148	2938.6	9355.1	17	5	2	5	29.7	29.0	28.8	25.2	25.2	25.6		6.5	5.8	5.3	ST
40005	6/5/2006	1252	2937.5	9403.9	18	6	3	6	30.0	28.4	27.5	26.0	27.1	28.8		6.3	4.5	2.8	ST
40006	6/5/2006	1354	2935.5	9358.3	17	8	4	8	30.3	27.4	27.2	25.1	27.5	31.5		6.7	4.0	3.5	ST
40007	6/5/2006	1430	2934.6	9359.9	17	9	4	9	30.2	27.2	27.1	25.1	29.8	31.8		6.3	4.2	3.9	ST
40008	6/5/2006	1516	2933.4	9357.3	17	10	5	10	30.4	27.5	27.2	25.3	31.7	32.1		6.7	3.8	3.8	ST
40009	6/23/2006	722	2937.4	9347.2	17	9	4	9	28.4	28.4	28.2	26.3	30.0	30.4		6.6	5.5	4.6	ST
40010	6/23/2006	759	2937.4	9346.7	17	9	4	9	28.4	28.4	28.1	26.1	29.9	30.3		6.7	5.7	4.3	ST
40011	6/23/2006	843	2941.5	9346.2	17	6	3	6	28.3	29.6	29.4	26.6	28.5	29.7		6.3	6.3	5.3	ST
40012	6/23/2006	953	2941.3	9342.9	17	7	4	7	29.1	29.0	29.2	29.4	29.3	29.7		6.7	6.3	6.4	ST
40013	6/23/2006	1049	2943.4	9336.2	17	6	3	6	30.2	29.6	29.7	27.9	29.1	29.3		6.7	6.2	6.7	ST
40014	6/23/2006	1158	2937.4	9336.8	17	10	5	10	29.6	28.9	28.6	31.1	31.1	31.2		6.7	5.9	3.4	ST
40015	6/23/2006	1250	2936.4	9341.2	17	10	5	10	30.0	28.5	28.4	28.9	30.8	31.1		7.4	5.1	3.6	ST
40016	6/23/2006	1347	2934.5	9344.9	17	11	6	11	29.9	28.7	28.9	31.1	38.8	30.8		7.9	4.7	4.6	ST

Table 2. Selected environmental parameters (continued)

NUECES, SUMMER SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
67001	6/5/2006	742	2747.8	9659.5	20	15	7	15	26.6	26.6	26.1	33.5	34.4	34.5		5.5	5.5	5.1	ST
67002	6/5/2006	828	2745.2	9704.6	20	11	7	11	27.2	27.1	26.4	33.5	34.2	33.3		5.4	5.3	4.7	ST
67003	6/5/2006	858	2743.9	9705.5	20	12	7	12	27.2	27.1	26.2	33.5	33.8	34.5		5.4	5.4	4.8	ST
67004	6/5/2006	943	2740.2	9709.5	20	8	4	8	27.7	27.6	27.1	33.5	34.5	34.8		5.0	5.2	4.8	ST
67005	6/5/2006	1143	2736.9	9703.4	20	21	10	21	27.0	26.8	26.4	34.4	35.4	35.7		5.4	5.6	5.4	ST
67006	6/5/2006	1208	2737.3	9702.5	20	21	10	21	27.2	26.8	26.6	34.2	35.1	36.1		5.6	5.4	5.3	ST
67007	6/5/2006	1302	2744.9	9658.3	20	19	10	19	27.7	26.8	26.7	34.2	34.3	35.4		5.5	5.5	5.4	ST
67008	6/5/2006	1339	2746.2	9653.5	20	22	11	22	27.0	26.3	26.5	35.1	35.3	35.1		5.3	5.6	5.5	ST
67009	6/26/2006	730	2751.1	9701.4	20	9	5	9	29.6	29.2	29.0	36.5	36.7	36.7		4.9	5.2	4.1	ST
67010	6/26/2006	756	2751.9	9659.4	20	12	0	12	29.4	29.3	28.9	36.5	35.1	36.7		5.0	5.1	5.2	ST
67011	6/26/2006	824	2752.2	9701.5	20	4	2	4	29.6	29.5	29.1	36.6	36.6	36.7		5.0	5.2	4.8	ST
67012	6/26/2006	849	2753.9	9700.0	20	6	2	6	29.5	29.4	29.1	36.7	36.7	36.7		4.9	5.1	5.2	ST
67013	6/26/2006	930	2758.1	9656.5	20	4	2	4	29.5	29.6	29.4	36.6	36.6	36.2		5.3	5.3	5.3	ST
67014	6/26/2006	953	2759.6	9655.9	20	5	2	5	29.6	29.5	29.3	36.5	36.4	36.6		5.3	5.3	5.5	ST
67015	6/26/2006	1037	2754.8	9649.4	20	18	9	18	28.7	28.7	28.6	36.4	36.4	36.8		5.1	5.1	5.5	ST
67016	6/26/2006	1104	2754.2	9647.4	20	20	10	20	28.8	28.7	28.6	36.4	36.6	36.8		5.0	5.1	5.3	ST

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	8/31/2006	2133	2602.6	9559.3		1043	99	198	30.3	23.2	16.7	35.9	36.6	36.2		2.2	6.7	4.3	PN
2	9/1/2006	150	2602.3	9629.6	21	63	30	59	29.0	24.4	20.4	36.4	36.6	36.6		6.4	7.0	4.3	PN
3	9/1/2006	539	2600.7	9659.6	21	28	14	25	29.1	25.9	23.7	36.5	36.6	36.6		6.2	6.8	6.3	PN
4	9/1/2006	922	2630.3	9659.8	21	36	17	34	28.4	25.5	23.2	36.6	36.6	36.6		6.4	7.2	6.1	PN
5	9/1/2006	1308	2630.6	9629.5	21	86	43	85	28.8	23.0	20.1	36.4	36.6	35.4		6.4	6.5	3.8	PN
6	9/1/2006	1812	2659.6	9600.5		452	102	201	30.0	22.8	15.8	36.2	36.6	36.1		6.2	6.2	4.3	PN
7	9/1/2006	2245	2700.0	9640.0	20	88	44	87	29.7	24.6	20.4	36.5	36.6	36.5		6.4	7.1	3.8	PN
8	9/2/2006	235	2700.9	9711.6	20	28	13	26	27.9	25.4	23.7	36.6	36.6	36.6		6.5	7.2	6.1	PN
9	9/2/2006	635	2730.6	9659.8	20	29	14	27	29.0	29.1	25.4	36.6	36.6	36.6		6.3	6.3	7.1	PN
10	9/2/2006	1001	2730.4	9629.8	20	78	38	75	29.6	26.8	21.2	36.4	36.6	36.6		6.2	7.2	4.4	PN
11	9/2/2006	1401	2800.9	9630.1	19	28	13	25	29.0	29.0	27.5	36.6	36.6	36.6		6.3	6.3	6.8	PN
12	9/2/2006	1729	2820.5	9620.1	19	15	7	14	30.7	30.4	26.7	37.0	37.0	36.6		6.0	6.0	4.5	PN
13	9/2/2006	2016	2830.8	9559.9	19	15	7	13	31.3	30.6	30.4	36.3	36.4	36.8		6.3	6.3	4.9	PN
14	9/2/2006	2357	2800.7	9560.0	19	47	24	47	29.7	29.4	23.1	36.7	36.6	33.8		6.2	6.2	2.8	PN
15	9/3/2006	324	2734.1	9600.0	20	172	86	171	30.0	21.5	17.3	36.4	36.6	36.3		5.8	5.9	4.0	PN
16	9/3/2006	707	2730.3	9530.7	20	684	101	200	29.6	19.9	14.6	36.5	36.8	36.1		6.3	3.9	3.6	PN
17	9/3/2006	955	2745.6	9530.3	20	115	57	113	29.7	22.2	19.6	36.5	36.9	36.5		6.2	5.7	3.5	PN
18	9/3/2006	1242	2800.6	9530.3	19	56	27	53	29.6	29.1	22.7	36.4	36.5	36.6		6.3	6.5	6.0	PN
19	9/3/2006	1636	2829.4	9530.5	19	26	13	24	30.2	30.2	27.0	36.7	36.8	36.6		6.1	6.1	5.6	PN
20	9/3/2006	2146	2900.3	9500.4	19	17	7	14	30.7	30.4	29.7	35.8	35.9	36.1		6.5	6.5	3.8	PN
21	9/4/2006	137	2830.3	9500.9	19	34	17	32	29.9	29.8	25.2	36.4	36.6	36.6		6.2	6.2	5.2	PN
22	9/4/2006	521	2800.2	9501.0	19	82	41	80	29.8	23.4	21.5	36.5	36.6	36.6		6.3	6.6	5.2	PN
23	9/4/2006	1036	2730.0	9431.2		695	101	201	29.5	18.2	12.7	36.4	36.4	35.6		6.3	4.0	3.8	PN
24	9/4/2006	1547	2800.4	9400.7	18	83	41	82	29.9	27.4	21.7	36.5	36.6	36.6		6.2	7.3	5.3	PN
25	9/4/2006	1931	2800.3	9431.0	18	72	35	70	29.8	27.2	21.8	36.5	36.5	36.6		6.3	7.2	5.8	PN
26	9/4/2006	2313	2828.5	9430.5	18	39	19	37	30.1	29.9	23.7	36.0	36.4	36.6		6.2	6.2	5.1	PN
27	9/5/2006	231	2830.4	9400.6	18	41	21	40	30.0	29.8	22.7	36.0	36.5	36.5		6.3	6.3	5.5	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	9/5/2006	611	2900.2	9401.0	18	22	10	19	30.1	30.5	29.7	33.4	33.9	36.0		6.4	6.6	4.0	PN
29	9/5/2006	939	2859.8	9430.7	18	19	9	17	30.4	30.5	30.5	34.8	35.0	35.1		6.1	5.9	5.8	PN
30	9/5/2006	2138	2925.5	9429.7	18	11	5	9	29.9	29.9	30.0	32.2	32.2	32.6		6.7	6.8	6.4	PN
31	9/6/2006	124	2929.3	9400.4	18	12	5	10	29.9	29.9	29.9	31.5	31.6	31.6		6.5	6.5	6.5	PN
32	9/6/2006	447	2931.8	9332.2	17	12	5	10	29.7	29.7	29.7	30.6	30.7	30.8		6.0	6.0	6.0	PN
33	9/6/2006	903	2859.6	9331.7	17	24	12	23	29.7	29.7	30.1	34.6	34.7	35.5		6.3	6.3	5.1	PN
34	9/6/2006	1330	2830.0	9330.0	17	43	21	41	29.5	29.5	21.5	36.4	36.4	42.4		6.3	6.2	4.8	PN
35	9/6/2006	1807	2759.8	9330.0		88	43	86	29.9	27.5	21.7	36.5	36.7	40.0		6.3	6.9	5.4	PN
36	9/6/2006	2129	2800.8	9300.4	17	103	51	101	29.8	23.9	20.1	36.4	36.6	38.9		6.3	6.5	4.3	PN
37	9/7/2006	131	2829.5	9300.7	17	46	23	45	29.6	29.7	22.6	35.6	35.6	41.2		6.3	6.4	5.6	PN
38	9/7/2006	520	2859.8	9259.5	16	25	13	24	29.7	29.7	29.5	33.9	34.3	35.6		6.2	6.0	4.4	PN
39	9/7/2006	905	2930.1	9259.9	16	14	7	12	29.5	29.5	29.5	30.9	31.0	31.0		6.4	6.4	6.4	PN
40	9/7/2006	1249	2924.7	9228.2	16	11	5	9	29.1	29.1	29.5	31.4	31.6	31.5		6.5	6.4	2.4	PN
41	9/7/2006	1618	2859.4	9233.2	16	26	13	24	29.6	30.3	27.1	30.7	32.6	35.5		6.6	6.4	3.6	PN
42	9/7/2006	2008	2831.3	9230.4	16	51	25	49	29.9	29.6	22.1	36.1	36.4	40.6		6.2	6.3	4.7	PN
43	9/8/2006	10	2801.0	9231.0	16	100	50	99	29.3	25.2	20.5	36.1	38.1	35.4		6.3	6.0	4.4	PN
44	9/8/2006	339	2759.8	9200.9		123	61	121	29.4	25.8	21.5	36.1	37.2	38.5		6.3	6.0	4.9	PN
45	9/8/2006	746	2830.1	9200.7	16	51	25	50	29.7	30.2	21.0	34.4	34.6	40.2		6.3	6.3	3.8	PN
46	9/8/2006	1149	2859.9	9203.7	16	21	9	18	29.6	30.2	28.4	30.7	30.4	35.3		6.4	4.6	2.7	PN
47	9/8/2006	1535	2858.0	9132.5	15	14	7	12	29.3	30.1	29.8	27.4	28.8	30.2		6.5	6.0	2.8	PN
48	9/8/2006	1931	2829.9	9130.9	15	48	24	47	29.7	29.9	21.2	31.2	35.6	36.3		6.4	6.2	3.2	PN
49	9/8/2006	2342	2800.6	9129.8	15	163	81	161	29.5	25.0	17.6	36.1	37.5	38.9		6.3	5.9	3.7	PN
50	9/9/2006	301	2760.0	9100.7		170	86	169	29.7	25.6	13.5	36.1	27.8	37.2		6.2	6.1	3.4	PN
51	9/9/2006	657	2830.0	9100.4	15	35	17	34	30.1	29.9	26.4	31.7	33.9	36.8		6.3	4.7	2.3	PN
52	9/9/2006	1240	2853.3	9032.9	14	16	7	14	30.0	30.0	30.1	32.7	32.7	32.6		6.2	6.2	1.3	PN
53	9/9/2006	1540	2829.7	9030.7	14	40	19	38	30.1	30.3	25.6	31.0	30.7	32.5		6.3	6.2	3.6	PN
54	9/9/2006	1859	2805.3	9030.6	14	164	81	162	29.3	24.4	14.9	36.1	34.7	42.6		6.2	6.5	3.9	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	9/9/2006	2238	2759.9	9000.8		550	101	201	29.6	24.7	13.5	36.0	24.5	42.6		6.2	5.7	3.9	PN
56	9/10/2006	257	2830.7	9000.2	14	92	46	91	30.2	23.8	18.2	32.5	32.7	32.9		6.3	3.7	3.7	PN
57	9/10/2006	744	2858.6	8933.2	13	44	21	41	30.0	29.0	25.6	27.6	31.2	37.4		6.7	4.7	4.4	PN
58	9/10/2006	1443	2829.4	8860.0		849	101	200	29.9	18.9	13.7	34.6	33.6	37.2		6.2	3.9	3.8	PN
59	9/10/2006	1902	2900.2	8900.8	13	74	37	72	29.8	27.9	21.4	30.3	31.5	25.8		6.4	5.6	4.6	PN
60	9/10/2006	2241	2900.7	8830.5	11	358	101	202	29.6	17.9	13.4	33.7	25.2	36.1		6.3	4.0	4.4	PN
61	9/11/2006	117	2914.9	8829.9	11	102	51	100	29.5	23.0	16.8	33.3	38.1	35.9		6.3	6.1	4.0	PN
62	9/11/2006	412	2931.5	8830.1	11	50	25	48	29.2	29.5	24.2	34.0	33.8	37.6		6.3	6.9	3.2	PN
63	9/11/2006	852	3000.4	8828.8	11	28	13	26	29.3	29.3	29.5	33.9	34.0	34.8		6.3	6.3	2.6	PN
64	9/11/2006	1234	3000.2	8756.4	10	24	12	23	29.1	29.9	29.9	33.3	33.4	35.3		6.2	6.2	4.8	NN
65	9/11/2006	1640	2929.9	8802.6	11														PN
66	9/11/2006	1841	2915.0	8800.7	11	269	101	200	29.7	18.4	13.7	34.1	35.9	35.8		6.2	4.0	4.2	PN
67	9/11/2006	2308	2930.7	8730.4	10	72	36	70	29.4	24.4	20.4	34.1	31.7	33.1		6.2	4.7	3.5	PN
68	9/12/2006	249	2959.8	8730.3	10	31	14	27	29.4	29.5	29.0	34.5	34.5	34.5		6.2	6.2	5.7	PN
69	9/12/2006	508	3014.4	8730.6	10	14	8	13	29.0	29.0	29.0	32.1	32.1	32.1		6.3	6.2	6.2	PN
70	9/12/2006	1206	3001.5	8659.1	9	80	40	79	29.2	26.8	18.6	34.3	32.6	35.5		6.2	6.4	4.2	PN
71	9/12/2006	1443	2947.6	8700.0	10	198	99	196	29.4	17.9	13.1	34.2	36.4	35.0		6.2	4.5	3.8	PN
72	9/12/2006	1914	3000.8	8629.9	9	58	29	57	29.4	29.1	21.3	34.6	35.7	36.8		6.3	5.6	3.7	PN
73	9/12/2006	2157	3018.9	8628.0	9	27	14	27	29.1	29.2	29.3	34.1	34.2	34.3		6.3	6.2	6.1	PN
74	9/13/2006	143	3019.8	8660.0	9	19	10	17	29.1	29.1	29.1	33.7	33.7	33.7		6.2	6.2	6.2	PN
75	9/21/2006	307	2929.3	8629.4		216	101	202	29.1	15.7	13.2	34.1	28.8	35.7		6.3	4.2	4.0	PN
76	9/21/2006	827	3000.1	8600.7	9	33	15	30	29.0	29.1	29.5	35.0	35.1	35.5		6.1	6.1	4.9	PN
77	9/21/2006	1214	2930.8	8600.1	9	59	29	58	29.3	28.6	21.6	35.6	35.9	32.2		6.2	5.7	4.4	PN
78	9/21/2006	1445	2912.8	8559.9	8	196	97	193	29.3	17.4	13.6	35.4	38.7	29.3		6.3	4.1	3.4	PN
79	9/21/2006	2008	2948.8	8530.5	8	21	10	19	28.7	29.4	29.5	34.0	34.2	34.5		6.4	5.4	5.0	PN
80	9/21/2006	2239	2930.8	8531.2	8	20	9	18	28.5	28.5	28.8	35.1	35.1	35.4		6.6	6.6	6.5	PN
81	9/22/2006	327	2930.5	8454.7	7	14	7	12	28.5	28.4	28.5	34.6	34.6	34.6		6.1	6.1	6.1	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	9/22/2006	615	2930.5	8429.6	7	26	13	24	29.3	29.3	29.3	35.5	35.5	35.5		6.2	6.2	6.2	PN
83	9/22/2006	936	2930.8	8400.1	7	21	11	20	29.0	29.0	29.0	35.3	35.2	35.3		5.9	5.9	5.9	PN
84	9/22/2006	1153	2930.3	8344.8	7	13	6	11	27.9	27.9	28.3	33.9	33.9	34.3		6.2	6.2	5.9	PN
85	9/22/2006	1550	2900.7	8330.0	7	18	9	16	29.3	29.3	29.2	35.7	35.7	35.7		5.9	6.0	6.0	PN
86	9/22/2006	1751	2852.9	8316.3	6	14	7	12	29.2	29.2	29.1	35.4	35.5	35.6		6.3	6.3	6.3	PN
87	9/22/2006	2210	2859.9	8359.2	6	30	15	28	29.8	29.7	29.6	36.1	36.3	36.3		6.2	6.1	6.1	PN
88	9/23/2006	114	2900.1	8429.2	7	33	16	31	29.7	29.7	29.5	36.3	36.3	36.3		6.1	6.1	6.1	PN
89	9/23/2006	434	2900.1	8459.0	7	40	20	39	29.5	29.4	27.6	35.9	35.9	36.4		6.3	6.3	4.6	PN
90	9/23/2006	756	2900.8	8529.9	8	71	35	69	29.5	27.3	20.2	35.8	36.7	40.1		6.2	6.1	4.3	PN
91	9/23/2006	1248	2829.8	8530.1	8	206	100	199	29.6	19.2	14.3	35.6	32.7	40.4		6.2	4.0	4.0	PN
92	9/23/2006	1608	2830.8	8500.3	6	104	53	104	29.4	22.8	16.0	35.7	36.5	36.1		6.3	5.8	3.9	PN
93	9/23/2006	1937	2830.7	8429.9	6	52	25	49	29.7	29.6	26.0	36.2	36.2	36.4		6.2	6.3	5.8	PN
94	9/23/2006	2307	2832.6	8400.5	6	35	17	34	29.9	29.7	29.7	36.2	36.2	36.2		6.2	6.2	6.2	PN
95	9/24/2006	255	2829.9	8330.5	6	24	11	22	29.9	29.9	29.8	36.1	36.1	36.2		6.1	6.1	6.1	PN
96	9/24/2006	532	2828.0	8307.2	6	14	7	12	29.5	29.5	29.5	35.7	35.7	35.7		6.3	6.3	6.3	PN
97	9/24/2006	859	2800.7	8301.9	6	15	7	12	29.5	29.6	29.6	35.1	35.1	35.2		5.9	5.7	5.2	PN
98	9/24/2006	1207	2800.7	8330.4	6	31	15	28	29.8	29.8	29.8	36.3	36.3	36.3		6.0	6.0	6.0	PN
99	9/24/2006	1527	2800.8	8400.1	6	48	24	47	29.8	29.7	26.8	36.3	36.3	36.4		6.2	6.2	6.1	PN
100	9/24/2006	1852	2759.8	8429.3	5	79	40	77	29.9	26.5	16.8	36.0	36.4	36.2		6.3	6.6	3.7	PN
101	9/24/2006	2222	2800.7	8500.2	6	257	101	201	29.7	19.3	14.8	35.9	36.6	36.0		6.3	4.6	4.2	PN
102	9/25/2006	358	2729.6	8429.7	5	134	66	131	30.1	21.0	15.9	36.1	36.6	36.1		6.2	5.0	4.3	PN
103	9/25/2006	726	2729.9	8400.7	5	62	31	60	29.9	29.1	23.5	36.1	36.3	36.5		6.2	6.7	6.4	PN
104	9/25/2006	1111	2729.9	8330.3	5	42	21	41	29.8	29.7	28.0	36.4	36.3	36.4		6.2	6.2	6.3	PN
105	9/25/2006	1437	2730.5	8259.4	5	19	9	17	29.9	29.8	29.8	35.2	35.5	35.8		6.5	5.9	4.8	PN
106	9/25/2006	1927	2659.1	8233.6	4	16	7	14	29.9	29.7	29.8	34.3	34.9	35.6		7.3	6.3	5.5	PN
107	9/25/2006	2301	2630.0	8229.6	4	22	10	19	30.5	30.2	30.2	36.1	36.1	36.1		6.2	6.2	6.2	PN
108	9/26/2006	221	2629.5	8259.9	4	40	19	38	30.0	29.9	28.7	36.3	36.4	36.4		6.2	6.2	6.6	PN

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
109	9/26/2006	822	2659.5	8259.5	4	34	17	33	30.0	29.9	29.9	36.4	36.3	36.3		6.2	6.2	6.1	PN
110	9/26/2006	1143	2659.5	8329.4	4	53	27	52	29.9	29.9	25.9	36.2	36.2	36.4		6.2	6.2	6.8	PN
111	9/26/2006	1558	2629.9	8330.0	4	60	30	59	30.5	29.6	24.5	36.0	36.4	36.5		6.2	6.7	6.3	PN
112	9/26/2006	1955	2600.2	8330.1	4	66	32	63	31.1	30.1	22.8	36.3	36.3	36.5		6.2	6.4	5.9	PN
113	9/27/2006	14	2559.4	8400.1	3	142	70	139	30.1	23.3	16.1	35.9	36.6	36.2		6.2	6.0	4.3	PN
114	9/27/2006	448	2629.7	8359.9	4	128	62	123	30.0	23.9	15.0	35.9	36.4	35.9		6.2	6.4	3.9	PN
115	9/27/2006	836	2659.6	8359.8	4	85	43	84	29.9	26.2	15.6	35.9	36.4	36.1		6.2	6.4	3.9	PN
116	9/27/2006	1214	2659.4	8430.0		180	90	179	29.9	21.1	15.1	35.9	36.7	36.0		6.2	4.8	4.4	PN
117	9/27/2006	1619	2629.2	8430.1		204	99	198	29.3	21.4	15.3	36.2	36.7	36.0		6.2	5.0	4.4	PN
118	9/27/2006	2020	2559.2	8429.9		223	100	199	29.7	25.8	18.0	35.9	36.5	36.4		6.2	5.7	4.7	PN

Table 2. Selected environmental parameters (continued)

A.E. VERRILL, FALL PLANKTON SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	9/5/2006	912	3012.8	8802.3	11	16	8	16	29.7	29.7	29.4	33.2	34.2	34.9		4.8	4.2	4.1	NN
2	9/5/2006	1019	3013.5	8808.0	11	9	5	9	29.9	29.6	29.2	32.3	35.0	35.2		6.3	4.7	0.8	NN
3	9/5/2006	1107	3008.5	8807.2	11	16	8	16	29.8	30.0	28.8	32.6	35.8	36.1		5.9	5.3	2.7	NN
4	9/5/2006	1141	3008.2	8803.7	11	16	8	16	30.1	29.6	28.3	32.2	35.2	36.2		6.6	5.2	3.8	NN
5	9/5/2006	1213	3008.0	8800.3	11	18	9	18	30.2	29.4	28.3	32.4	35.7	36.2		6.2	5.2	3.9	NN
6	9/5/2006	1249	3011.0	8760.0	10	12	6	12	30.4	29.5	29.2	34.0	36.1	35.9		5.0	5.4	3.8	NN
7	9/5/2006	1434	3016.5	8800.2	11	5	3	5	31.0	29.8	29.8	27.9	31.1	28.3		6.7	6.5	6.3	NN
8	9/5/2006	1458	3016.4	8802.1	11	14	7	14	31.1	29.7	29.6	24.2	32.2	33.1		6.7	5.4	4.6	NN
9	9/5/2006	1527	3016.6	8804.3	11	5	3	5	31.0	30.0	29.8	24.8	30.8	31.3		6.1	5.7	4.4	NN

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	10/15/2006	751	2602.3	9625.1		77	38	73	28.3	27.9	21.5	36.0	36.5	36.5		6.1	6.2	4.5	ST
2	10/15/2006	849	2602.1	9623.9		128	61	122	28.5	23.9	18.9	36.3	36.6	36.4		6.0	6.3	3.8	ST
3	10/15/2006	1625	2624.5	9628.2															ST
4	10/15/2006	1748	2624.3	9625.8															ST
5	10/16/2006	10	2619.5	9654.9	21														ST
6	10/16/2006	138	2618.6	9652.7	21	41	21	38	27.9	27.9	28.0	36.4	36.4	36.4		6.0	6.0	6.0	ST
7	10/16/2006	735	2639.0	9707.5	21	26	12	21	27.9	27.9	27.9	35.9	35.9	36.0		6.2	6.1	6.0	ST
8	10/16/2006	1705	2605.7	9700.9	21	25	11	20	28.0	28.0	28.0	36.4	36.4	36.4		6.0	6.0	6.0	ST
9	10/16/2006	1910	2615.6	9701.8	21	28	14	25	28.1	28.0	27.8	36.4	36.4	36.5		6.2	6.1	6.1	ST
10	10/16/2006	2059	2618.0	9708.6	21	16	8	15	28.0	28.0	28.0	36.3	36.3	36.3		6.2	6.2	6.1	ST
11	10/16/2006	2243	2624.3	9712.5	21	15	9	13	28.1	28.1	28.0	36.3	36.3	36.3		6.3	6.2	6.1	ST
12	10/17/2006	3	2626.3	9712.3	21	16	8	14	28.0	28.0	27.9	36.3	36.3	36.4		6.2	6.1	5.8	ST
13	10/17/2006	258	2645.5	9719.3	21	16	8	15	28.2	28.1	27.8	35.8	35.8	36.2		5.9	5.8	6.1	ST
14	10/17/2006	446	2648.4	9713.8	21	26	14	26	27.8	27.8	27.8	34.7	34.7	35.0		6.2	6.2	5.8	ST
15	10/17/2006	810	2629.9	9700.1	21	34	16	33	28.0	28.0	28.0	35.3	35.3	36.0		6.3	6.3	5.9	NN
16	10/17/2006	1852	2637.4	9642.7	21	65	34	65	28.4	28.0	23.4	35.6	36.4	36.5		6.4	6.2	5.6	ST
17	10/17/2006	2009	2637.8	9640.1	21														ST
18	10/17/2006	2120	2637.5	9636.1	21	93	47	93	28.8	24.7	20.9	36.3	36.5	36.5		6.4	7.0	4.3	ST
19	10/17/2006	2258	2637.8	9633.2	21	105	54	104	28.2	24.0	20.3	36.4	36.5	36.5		6.4	6.7	4.1	ST
20	10/18/2006	309	2645.1	9646.0	21	73	38	73	28.2	28.0	22.8	35.3	36.4	36.5		6.5	6.5	5.7	ST
21	10/18/2006	632	2660.0	9639.8	21	88	53	88	28.2	25.1	21.8	36.4	36.6	36.5		6.4	7.3	5.2	PN
22	10/18/2006	935	2707.1	9656.6	20	46	22	43	28.1	28.0	27.9	35.1	36.4	36.4		6.4	6.1	5.9	ST
23	10/18/2006	1052	2707.1	9659.3	20														ST
24	10/18/2006	1353	2658.1	9721.6	21	17	9	16	27.8	27.9	28.1	34.1	34.3	35.4		6.5	6.4	5.2	ST
25	10/18/2006	1449	2658.3	9717.3	21	24	11	21	27.7	27.5	28.0	33.5	33.6	34.9		6.6	6.2	5.5	ST
26	10/18/2006	1706	2656.4	9708.2	21	31	16	31	27.8	27.7	27.8	33.7	33.8	34.1		6.5	6.5	3.6	ST
27	10/18/2006	1808	2656.4	9704.8	21	37	18	35	27.9	27.8	28.0	33.6	35.2	36.2		6.6	5.7	5.7	ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	10/18/2006	2012	2703.1	9704.4	20	35	18	34	28.1	28.0	28.0	33.9	36.1	36.2		6.7	6.2	5.8	ST
29	10/18/2006	2323	2723.5	9715.6	20	18	10	17	27.5	27.5	27.6	32.7	32.9	33.6		6.6	6.7	5.8	ST
30	10/19/2006	106	2727.7	9711.6	20	18	9	17	27.6	27.6	27.4	32.7	32.7	33.3		6.7	6.7	5.3	ST
31	10/19/2006	249	2722.6	9707.5	20	26	12	24	27.9	27.2	27.4	32.7	33.0	33.8		6.8	6.1	5.6	ST
32	10/19/2006	517	2727.1	9655.5	20	34	17	32	27.4	27.8	27.7	32.3	35.1	35.6		6.9	5.9	5.8	ST
33	10/19/2006	659	2729.9	9700.4	20	28	15	28	27.6	27.1	27.7	32.4	33.0	35.3		6.7	6.1	5.4	PN
34	10/19/2006	842	2736.8	9700.8	20	24	12	24	27.3	27.0	27.4	32.1	32.7	33.9		6.8	5.5	4.4	ST
35	10/19/2006	1032	2746.8	9702.6	20	12	6	11	27.1	27.0	27.3	31.8	31.8	33.1		6.5	6.6	5.7	ST
36	10/19/2006	1300	2737.8	9709.7	20	16	9	16	27.3	27.3	27.5	32.3	32.3	33.1		6.0	6.0	4.8	ST
37	10/19/2006	1504	2728.5	9707.9	20	22	12	21	27.1	27.1	27.3	32.3	32.4	32.8		6.3	6.1	5.6	ST
38	10/19/2006	1830	2724.4	9644.9	20	54	30	53	27.8	28.0	24.1	35.1	36.2	36.5		6.4	6.2	4.9	ST
39	10/19/2006	1950	2724.2	9642.4	20														ST
40	10/19/2006	2234	2733.1	9643.2	20	53	28	53	27.5	28.0	27.0	35.1	36.3	36.1		6.4	6.3	5.7	ST
41	10/20/2006	44	2732.6	9638.6	20	55	28	55	27.5	28.1	25.3	35.0	36.4	36.5		6.5	6.3	5.6	ST
42	10/20/2006	214	2731.2	9636.7	20														ST
43	10/20/2006	412	2729.4	9631.2	20	72	37	72	27.8	27.7	22.5	36.2	36.4	36.5		6.3	6.2	5.4	ST
44	10/20/2006	540	2728.1	9629.1															ST
45	10/20/2006	915	2737.4	9653.0	20	29	15	28	27.2	27.2	27.4	33.9	33.9	34.1		6.0	6.0	5.8	ST
46	10/20/2006	1028	2737.9	9649.2	20	36	19	36	27.3	27.3	27.3	34.6	34.6	34.6		6.3	6.3	6.3	ST
47	10/20/2006	1337	2746.4	9637.6	20	37	19	37	27.2	27.3	27.3	34.4	34.4	34.4		6.1	6.1	6.1	ST
48	10/20/2006	1627	2756.3	9634.6	20	27	15	26	26.6	26.6	26.6	33.6	33.7	33.7		6.2	6.2	6.1	ST
49	10/20/2006	1714	2755.5	9633.7	20	34	18	33	26.8	26.8	26.8	33.9	33.9	33.9		6.2	6.1	6.2	ST
50	10/27/2006	1112	2753.3	9652.3	20	15	8	15	24.1	24.2	25.7	29.9	30.2	33.5		7.0	6.9	5.9	ST
51	10/27/2006	1258	2750.7	9651.9	20	21	11	21	24.3	25.7	26.2	30.2	33.8	34.7		7.0	6.7	6.1	ST
52	10/27/2006	1521	2800.4	9646.3	19	14	8	14	24.1	24.3	25.6	30.3	30.6	33.4		6.8	6.7	6.3	ST
53	10/27/2006	1824	2759.6	9632.5	20	26	12	23	25.0	25.5	26.6	32.2	33.3	35.5		7.0	6.8	6.3	ST
54	10/27/2006	2110	2752.5	9620.7	20	46	24	45	25.8	26.6	24.7	34.3	35.9	36.5		6.9	6.5	5.4	ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	10/28/2006	17	2742.3	9628.4	20														ST
56	10/28/2006	144	2744.5	9629.8	20														ST
57	10/28/2006	439	2744.2	9643.0	20	33	16	31	25.4	25.6	26.8	33.9	34.3	36.3		6.9	6.8	6.2	ST
58	10/28/2006	627	2752.4	9647.8	20	20	11	20	24.4	24.4	26.2	31.9	31.9	34.7		6.9	6.9	5.9	ST
59	10/28/2006	827	2757.7	9656.3	20	12	7	12	23.9	24.3	25.7	31.7	32.2	33.8		6.5	6.4	5.9	ST
60	10/28/2006	932	2758.0	9650.8	20	17	10	17	24.1	24.1	26.2	31.8	31.8	35.0		6.8	6.8	5.9	ST
61	10/28/2006	1217	2800.1	9629.9	19	27	14	27	24.9	25.0	26.8	33.3	33.3	36.2		6.9	6.8	5.9	PN
62	10/28/2006	1558	2759.9	9560.0	20	45	23	44	25.6	26.2	23.5	34.9	35.5	36.5		6.7	6.6	5.8	PN
63	10/28/2006	1710	2800.2	9556.9	19	47	24	45	25.8	26.3	23.1	35.3	35.7	36.5		6.7	6.6	6.0	ST
64	10/28/2006	1826	2802.4	9556.2	19														ST
65	10/28/2006	2003	2806.9	9558.9	19	36	17	34	24.7	25.1	25.5	32.8	33.5	36.4		7.2	6.8	5.8	ST
66	10/28/2006	2207	2819.6	9555.1	19	23	11	20	23.5	23.5	26.5	30.4	30.6	35.4		7.7	6.9	6.0	ST
67	10/29/2006	58	2817.6	9600.6	19	24	11	21	23.8	24.1	26.5	30.7	31.2	35.4		7.5	7.1	6.1	ST
68	10/29/2006	445	2804.3	9618.3	19	29	14	27	24.5	25.2	26.8	33.2	34.1	36.2		7.2	6.8	6.1	ST
69	10/29/2006	646	2800.2	9623.8	19	32	16	31	24.7	25.5	26.3	34.1	34.7	36.4		6.9	6.7	5.8	ST
70	10/29/2006	911	2817.0	9627.4	19	13	8	13	24.1	25.5	26.1	32.7	33.8	34.7		6.8	6.0	5.7	ST
71	10/29/2006	1030	2818.4	9619.1	19	20	12	20	23.6	26.3	26.5	31.3	35.3	35.7		7.4	6.1	5.9	ST
72	10/29/2006	1547	2744.4	9558.8	20	84	42	83	26.4	26.4	22.4	36.5	36.5	36.5		6.5	6.5	5.6	ST
73	10/29/2006	1826	2744.7	9554.0	20	69	34	67	26.6	26.5	22.0	36.5	36.5	36.6		6.5	6.5	5.3	ST
74	10/29/2006	2135	2751.5	9536.0	20	64	32	62	26.7	26.7	23.5	36.4	36.5	36.6		6.5	6.5	6.4	ST
75	10/29/2006	2355	2746.3	9541.0	20														ST
76	10/30/2006	217	2747.9	9532.8	20	78	38	75	27.2	27.2	21.2	36.5	36.5	36.6		6.4	6.4	4.7	ST
77	10/30/2006	442	2759.9	9529.8															PN
78	10/30/2006	710	2810.7	9521.8	19	47	24	47	26.0	26.0	25.5	35.8	35.8	36.4		6.5	6.5	6.1	ST
79	10/30/2006	828	2812.7	9523.1	19														ST
80	10/30/2006	1101	2814.8	9542.3	19	35	17	33	23.9	25.5	26.2	32.0	34.8	36.4		7.2	6.7	6.1	ST
81	10/30/2006	1247	2811.3	9542.8	19	36	18	35	24.0	25.4	25.7	32.2	34.6	36.4		7.2	6.7	6.0	ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
82	10/30/2006	1507	2807.4	9534.0	19	46	23	45	24.8	26.5	24.5	33.7	35.8	36.5		6.9	6.4	6.3	ST
83	10/30/2006	1633	2805.3	9533.1	19														ST
84	10/30/2006	1755	2803.0	9532.0	19														ST
85	10/30/2006	2223	2829.0	9532.7	19	28	14	27	24.0	24.9	26.7	31.5	34.1	36.0		7.7	6.7	5.7	ST
86	10/31/2006	58	2833.6	9531.4	19	22	12	21	23.8	25.7	26.5	31.1	35.0	35.4		7.6	6.2	5.5	ST
87	10/31/2006	527	2847.3	9500.3	19	21	11	18	23.4	23.9	25.8	30.3	32.2	35.3		7.9	7.3	5.9	ST
88	10/31/2006	843	2847.5	9524.3	19	15	9	15	23.8	24.3	25.7	31.5	32.2	33.1		7.5	6.9	4.5	ST
89	10/31/2006	1016	2845.7	9530.2	19	14	7	12	23.7	23.8	25.7	31.4	31.5	34.2		7.3	7.2	5.5	ST
90	10/31/2006	1312	2840.0	9545.0	19	14	7	12	24.6	24.7	25.6	33.2	33.4	34.5		6.8	6.7	5.7	ST
91	10/31/2006	1457	2837.5	9551.4	19	12	6	11	25.1	25.1	25.1	33.9	34.0	34.0		6.2	6.1	6.1	ST
92	10/31/2006	1704	2829.9	9559.9	19	16	8	15	24.4	25.2	26.4	32.8	34.1	35.2		7.0	6.3	5.2	PN
93	10/31/2006	1841	2831.7	9551.7	19	17	7	14	24.6	24.6	26.3	32.6	33.1	35.0		7.0	7.0	5.7	ST
94	10/31/2006	2305	2820.8	9515.2	19	37	18	35	24.6	25.6	25.9	33.6	35.2	35.7		7.0	6.6	6.3	ST
95	11/1/2006	221	2834.1	9501.1	19	33	16	30	24.1	24.5	26.4	32.3	33.8	35.9		7.2	6.9	5.6	ST
96	11/1/2006	509	2830.3	9452.6	18	36	19	36	24.3	24.4	26.3	33.2	34.4	36.0		7.0	6.8	5.7	ST
97	11/1/2006	626	2828.0	9452.5	18														ST
98	11/1/2006	741	2825.8	9452.3	18	38	20	38	24.2	24.8	26.5	33.7	34.9	36.1		6.8	6.7	5.7	ST
99	11/1/2006	1237	2756.7	9502.2		80	41	80	26.4	26.7	20.9	36.2	36.5	36.6		6.4	6.3	4.7	ST
100	11/1/2006	1725	2759.9	9429.9		71	36	71	26.4	26.7	25.7	36.4	36.5	36.5		6.4	6.3	6.0	PN
101	11/1/2006	2058	2813.8	9409.4	18	55	27	53	26.0	25.9	24.6	36.3	36.3	36.4		6.4	6.3	4.4	ST
102	11/1/2006	2226	2812.0	9407.1	18														ST
103	11/2/2006	307	2806.3	9442.9	18	54	27	52	25.4	25.8	25.7	35.5	35.9	36.4		6.5	6.4	6.0	ST
104	11/2/2006	535	2802.0	9439.1	18	62	32	62	25.8	26.4	21.3	35.9	36.3	36.7		6.4	6.3	5.4	ST
105	11/2/2006	858	2757.8	9428.5		89	45	87	26.1	26.5	17.8	36.2	36.5	36.4		6.4	6.3	4.0	ST
106	11/2/2006	2008	2852.9	9412.2	18	23	12	21	24.6	24.6	24.9	35.6	35.6	35.9		6.6	6.5	6.3	ST
107	11/2/2006	2207	2857.3	9410.8	18	20	10	18	23.8	23.8	24.2	34.6	34.6	34.9		6.4	6.4	6.1	ST
108	11/3/2006	257	2912.7	9355.5	17	17	8	14	22.7	22.7	23.2	31.6	31.6	32.8		6.9	6.9	6.1	ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
109	11/3/2006	426	2913.8	9357.8	17														ST
110	11/3/2006	655	2920.2	9347.2	17	14	8	13	21.9	21.9	21.9	30.6	30.6	30.6		6.7	6.7	6.7	ST
111	11/3/2006	1105	2929.2	9400.1	18	13	8	13	21.6	21.7	21.7	27.8	27.8	27.8		7.0	7.0	7.0	PN
112	11/3/2006	1315	2921.4	9415.5	18	16	9	15	21.6	21.6	22.7	28.2	28.2	30.3		6.7	6.7	5.4	ST
113	11/3/2006	1431	2923.5	9414.5	18														ST
114	11/3/2006	1549	2925.2	9412.5	18														ST
115	11/3/2006	2151	2930.6	9336.3	17	12	6	10	21.3	21.3	21.3	31.6	31.6	31.6		7.2	7.2	7.2	ST
116	11/4/2006	53	2939.4	9323.2	17	12	6	10	20.4	20.6	21.0	28.8	29.0	30.0		7.6	7.5	7.3	ST
117	11/4/2006	616	2936.8	9256.4	16	11	6	10	20.7	20.8	20.9	28.9	28.9	29.0		7.4	7.4	7.3	ST
118	11/4/2006	1101	2905.8	9310.8	17	25	14	25	23.5	23.6	23.8	35.1	35.1	35.3		6.6	6.6	6.6	ST
119	11/4/2006	1247	2905.8	9310.8	17	21	11	20	23.4	23.4	23.4	34.9	34.9	34.9		6.7	6.7	6.7	ST
120	11/4/2006	1517	2900.0	9300.1	17	24	12	23	23.9	23.8	23.9	35.5	35.5	35.5		6.6	6.6	6.6	PN
121	11/4/2006	1852	2841.8	9304.0	17	33	16	31	25.2	25.1	25.1	36.5	36.5	36.5		6.4	6.4	6.4	ST
122	11/4/2006	2103	2842.5	9313.9	17														ST
123	11/12/2006	1310	2913.2	9345.2	17														ST
124	11/12/2006	1501	2919.8	9347.7	17														ST
125	11/12/2006	1656	2926.0	9344.6	17														ST
126	11/12/2006	2048	2856.4	9356.5	17														ST
127	11/12/2006	2143	2857.5	9357.4	17														ST
128	11/12/2006	2331	2903.6	9403.8	18														ST
129	11/13/2006	202	2847.3	9403.9	18														ST
130	11/13/2006	323	2845.0	9404.0	18														ST
131	11/13/2006	606	2825.3	9404.7	18														ST
132	11/13/2006	725	2823.5	9403.3	18														ST
133	11/13/2006	842	2821.7	9402.0	18														ST
134	11/13/2006	1036	2830.1	9359.9	17														PN
135	11/13/2006	1143	2834.2	9359.2	17														ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX	SUR	SUR	MID	MAX	
136	11/13/2006	1254	2837.3	9400.7	18														ST
137	11/13/2006	1405	2839.0	9401.1	18														ST
138	11/13/2006	1520	2841.3	9401.4	18														ST
139	11/13/2006	1744	2835.4	9354.7	17														ST
140	11/13/2006	1911	2831.1	9352.1	17														ST
141	11/13/2006	2030	2828.8	9352.1	17														ST
142	11/13/2006	2206	2836.7	9348.8	17														ST
143	11/13/2006	2330	2836.6	9348.9	17														ST
144	11/14/2006	126	2840.7	9341.6	17														ST
145	11/14/2006	405	2848.2	9333.8	17														ST
146	11/14/2006	638	2839.0	9327.3	17														ST
147	11/14/2006	749	2836.8	9324.0	17														ST
148	11/14/2006	901	2835.2	9322.7	17														ST
149	11/14/2006	1153	2832.3	9334.5	17														PN
150	11/14/2006	1234	2832.3	9334.7	17														ST
151	11/14/2006	1615	2809.3	9327.6	17														ST
152	11/14/2006	1716	2808.2	9327.5	17														ST
153	11/14/2006	1841	2805.9	9326.9	17														ST
154	11/14/2006	1953	2801.8	9324.6	17														ST
155	11/14/2006	2124	2759.5	9323.9															ST
156	11/14/2006	2324	2805.0	9326.6	17														ST
157	11/15/2006	50	2802.9	9325.3	17														ST
158	11/15/2006	148	2802.0	9324.7	17														ST
159	11/15/2006	341	2759.0	9323.8															ST
160	11/16/2006	1702	2913.5	9235.0	16														ST
161	11/16/2006	2037	2859.5	9216.7	16														ST
162	11/16/2006	2140	2856.8	9216.7	16														ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX	SUR	SUR	MID	MAX	
163	11/16/2006	2249	2853.9	9216.8	16														ST
164	11/16/2006	2329	2852.1	9216.9	16														ST
165	11/17/2006	52	2854.1	9216.2	16														ST
166	11/17/2006	252	2901.7	9216.7	16														ST
167	11/17/2006	358	2903.8	9216.4	16														ST
168	11/17/2006	504	2905.5	9216.8	16														ST
169	11/17/2006	718	2900.7	9227.5	16														PN
170	11/17/2006	1041	2834.3	9230.7	16														PN
171	11/17/2006	1329	2832.1	9207.9	16														ST
172	11/17/2006	1455	2827.2	9208.2	16														ST
173	11/17/2006	1821	2818.3	9157.8	15														ST
174	11/17/2006	1958	2812.1	9158.5	15														ST
175	11/17/2006	2120	2808.5	9200.3	16														ST
176	11/17/2006	2245	2803.9	9159.4	15														ST
177	11/17/2006	2341	2802.6	9158.3	15														PN
178	11/18/2006	54	2808.9	9201.6	16														ST
179	11/18/2006	224	2811.8	9202.6	16														ST
180	11/18/2006	404	2818.0	9203.6	16														ST
181	11/18/2006	559	2826.8	9204.3	16														PN
182	11/18/2006	631	2827.6	9204.1	16														ST
183	11/18/2006	736	2832.0	9205.2	16														ST
184	11/18/2006	925	2841.4	9159.5	15														ST
185	11/18/2006	1133	2856.0	9157.2	15														PN
186	11/18/2006	1422	2851.4	9133.4	15														ST
187	11/18/2006	1608	2856.7	9130.1	15														ST
188	11/18/2006	1717	2859.8	9131.5	15														PN
189	11/18/2006	1853	2855.9	9125.0	15														ST

Table 2. Selected environmental parameters (continued)

OREGON II, FALL SHRIMP/GOUNDFISH SURVEY																				
STA#	DATE		POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM				GEAR
	MM/DD/YY	TIME	LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	SUR	MID	MAX	
190	11/18/2006	1951	2857.2	9123.5	15															ST
191	11/18/2006	2329	2841.0	9110.5	15															ST
192	11/19/2006	18	2842.9	9108.7	15															ST
193	11/19/2006	512	2854.6	9034.1	14															ST
194	11/19/2006	641	2900.8	9038.3	14															ST
195	11/19/2006	750	2857.3	9036.4	14															PN
196	11/19/2006	2115	2908.2	8856.0	11															ST
197	11/20/2006	225	2936.8	8855.5	11															ST

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	10/13/2006	549	2602.4	9622.0		117	58	115	28.2	23.2	18.5	36.5	36.6	36.5		6.3	5.9	4.0	BG
2	10/13/2006	906	2617.2	9620.5		112	55	110	28.2	21.7	18.2	36.5	36.6	36.4		6.2	5.4	3.9	BG
3	10/13/2006	1354	2640.1	9628.0		128	65	128	28.5	22.5	18.6	36.6	36.6	31.0		6.3	5.7	3.5	BG
4	10/13/2006	1708	2646.4	9626.8		209	103	206	28.3	20.5	14.9	36.5	36.6	36.0		6.3	4.4	4.0	BG
5	10/13/2006	2023	2646.2	9621.8		399	196	391	28.5	14.7	10.5	36.5	35.9	35.0		6.3	4.0	3.7	BG
6	10/14/2006	117	2656.7	9618.5		436	213	423	28.3	14.9	10.5	36.4	36.0	35.3		6.2	4.0	3.7	BG
7	10/14/2006	453	2704.2	9622.5		222	108	213	28.3	19.6	15.5	36.5	36.5	36.1		6.2	4.0	4.0	BG
8	10/14/2006	816	2703.0	9630.1	20	132	66	131	28.3	22.3	16.7	36.5	36.6	34.3		6.2	5.8	3.5	BG
9	10/14/2006	1059	2657.1	9634.7	21	108	52	103	28.3	24.3	20.2	36.5	36.6	36.5		6.2	6.8	4.1	BG
10	10/14/2006	1528	2720.8	9638.1	20	74	36	71	28.4	28.4	21.8	36.5	36.5	36.6		6.1	6.2	4.7	BG
11	10/14/2006	2149	2716.0	9628.0		114	55	108	28.2	24.5	20.0	36.4	36.6	36.5		6.1	6.9	4.0	BG
12	10/15/2006	42	2719.7	9631.6	20	90	42	83	28.2	28.1	21.9	36.5	36.5	36.6		6.3	6.3	5.2	BG
13	10/15/2006	730	2727.3	9608.5		165	80	158	28.1	21.9	15.2	36.5	36.6	36.0		6.3	5.2	4.0	BG
14	10/15/2006	2011	2744.7	9532.6	20														
15	10/15/2006	2306	2745.8	9536.4	20	94	43	84	27.7	24.2	21.7	36.3	36.6	36.6		6.3	6.8	5.1	BG
16	10/16/2006	130	2748.8	9540.0	20	69	30	59	27.7	27.8	23.1	36.2	36.5	36.6		6.3	6.4	6.4	BG
17	10/16/2006	2250	2757.9	9525.1															
18	10/17/2006	849	2753.8	9514.7		103	51	100	27.7	24.0	20.2	36.4	36.6	36.6		6.4	6.6	4.2	BG
19	10/17/2006	1326	2745.0	9519.8		257	126	249	27.8	17.5	13.0	36.4	36.3	35.7		6.3	4.2	3.8	BG
20	10/17/2006	1830	2753.9	9508.7		108	0	0											BG
21	10/17/2006	2330	2805.7	9457.5	18	60	26	51	28.1	28.1	24.4	36.3	36.5	36.6		6.3	6.3	6.4	BG
22	10/18/2006	512	2753.7	9444.9		146	70	139	28.0	21.5	17.6	36.2	36.6	36.3		6.4	5.2	4.1	BG
23	10/18/2006	743	2751.3	9442.2		219	110	217	28.1	18.9	14.8	36.4	36.5	35.8		6.3	4.1	3.9	BG
24	10/18/2006	1326	2813.0	9429.4	18	52	25	48	27.8	27.8	25.3	36.0	36.1	36.5		6.3	6.2	4.3	BG
25	10/18/2006	2157	2742.6	9409.8		212	185	370	28.7	17.3	11.1	36.5	36.3	35.4		6.3	4.3	3.8	BG
26	10/19/2006	114	2751.7	9410.1		113	53	105	28.4	25.7	21.3	36.4	36.6	36.6		6.3	7.1	4.8	BG
27	10/19/2006	539	2759.3	9352.5		89	42	83	27.7	27.6	19.8	36.1	36.2	36.5		6.3	6.2	4.0	BG

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE		POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
	MM/DD/YY	TIME	LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
28	10/19/2006	927	2805.8	9408.8	18	67	33	64	28.3	28.2	24.3	36.4	36.4	36.6		6.2	6.3	4.9	BG
29	10/19/2006	1420	2818.3	9353.7	17	57	28	55	27.7	27.5	24.0	36.2	36.3	36.5		6.2	6.2	2.8	BG
30	10/20/2006	239	2822.6	9336.9	17	56	25	48	27.6	27.6	23.6	36.4	36.4	36.6		6.4	6.3	4.4	BG
31	10/20/2006	843	2806.8	9315.3	17	79	39	76	27.8	27.8	20.3	36.3	36.4	36.6		6.3	6.3	3.9	BG
32	10/20/2006	1349	2751.5	9328.1		135	67	132	27.6	19.7	17.0	36.2	36.6	36.3		6.3	4.3	4.4	BG
33	10/20/2006	1804	2757.5	9322.7		110	51	101	28.2	24.2	17.8	36.5	36.6	36.4		6.3	6.7	4.2	BG
34	10/20/2006	2339	2745.9	9324.6		202	97	192	27.6	18.4	13.9	36.1	36.5	35.8		6.3	4.5	4.2	BG
35	10/21/2006	344	2753.1	9314.1		140	0	0											BG
36	10/21/2006	641	2751.2	9302.1		201	0	0											BG
37	10/21/2006	1105	2737.0	9300.6		420	0	0											BG
38	10/21/2006	1552	2754.2	9257.3		166	0	0											BG
39	10/21/2006	1937	2802.1	9249.7	16	100	47	92	28.2	28.1	19.1	36.6	36.6	36.5		6.3	6.3	4.1	BG
40	10/21/2006	2344	2810.3	9305.1	17	73	34	67	27.8	27.6	21.7	36.4	36.4	36.6		6.3	6.4	4.5	BG
41	10/22/2006	327	2821.4	9248.4	16	57	25	50	27.7	27.7	26.8	36.4	36.4	36.5		6.4	6.3	5.7	BG
42	10/22/2006	912	2810.9	9217.1	16	77	39	76	27.6	27.7	21.8	36.3	36.4	36.5		6.4	6.2	3.4	BG
43	10/22/2006	1418	2756.5	9225.4		102	49	98	28.3	28.3	19.9	36.6	36.6	36.5		6.2	6.3	4.4	BG
44	10/22/2006	2344	2804.3	9157.2	15	96	48	95	28.0	28.0	19.7	36.5	36.5	36.5		6.3	6.3	3.7	BG
45	10/23/2006	531	2815.7	9157.2	15														
46	10/23/2006	1914	2810.1	9148.5	15														
47	10/24/2006	136	2801.3	9141.2	15	119	58	113	27.5	27.5	18.5	36.5	36.5	36.4		6.3	6.3	4.2	BG
48	10/24/2006	457	2804.6	9134.9	15	118	58	114	27.4	24.8	19.0	36.5	36.6	36.5		6.4	6.7	4.0	BG
49	10/24/2006	722	2759.9	9130.4		149	76	149	27.5	22.6	16.8	36.5	36.6	36.3		6.3	5.6	4.4	PN
50	10/24/2006	1035	2804.8	9123.5	15	123	62	121	27.3	24.2	17.6	36.5	36.6	36.4		6.3	6.0	4.3	BG
51	10/24/2006	1328	2806.1	9119.8	15	116	58	115	27.1	24.0	17.9	36.5	36.5	36.4		6.3	4.5	4.2	BG
52	10/24/2006	2235	2751.2	9216.9		308	151	300	27.3	16.8	13.2	36.5	36.3	35.7		6.4	4.6	4.1	BG
53	10/25/2006	705	2753.4	9110.0		267	133	266	27.2	16.8	13.8	36.5	36.3	35.0		6.3	4.6	4.1	BG
54	10/25/2006	1159	2815.5	9058.1	14	70	34	66	27.0	27.0	22.4	36.5	36.5	36.5		6.4	6.3	4.0	BG

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
55	10/25/2006	1744	2804.9	9035.1	14	136	68	135	26.9	22.1	17.5	36.3	36.6	36.3		6.3	5.4	4.3	BG
56	10/25/2006	2105	2807.1	9033.5	14	114	54	107	26.9	24.3	18.6	36.3	36.6	36.5		6.4	6.1	4.3	BG
57	10/25/2006	2246	2802.9	9030.3	14	238	115	230	27.0	18.5	14.1	36.2	36.5	35.8		6.4	4.5	4.2	PN
58	10/26/2006	127	2803.8	9026.2	14	238	116	229	26.9	18.4	14.4	36.3	36.5	35.9		6.4	4.5	4.2	BG
59	10/26/2006	445	2813.3	9031.3	14	80	37	73	26.8	26.9	21.4	36.3	36.3	36.6		6.4	6.4	4.7	BG
60	10/26/2006	741	2809.5	9027.1	14	111	55	108	26.9	23.4	18.2	36.3	36.6	36.4		6.4	5.9	4.3	BG
61	10/26/2006	1026	2813.1	9017.7	14	104	52	103	26.8	24.4	17.5	36.3	36.6	36.2		6.3	6.1	4.3	BG
62	10/26/2006	1557	2811.5	8957.8		291	142	283	26.8	16.9	12.5	36.5	36.3	35.6		6.4	4.4	4.1	BG
63	10/26/2006	2013	2817.5	8951.0		387	186	371	26.8	15.1	10.3	36.5	36.0	35.2		6.4	4.5	3.9	BG
64	10/27/2006	221	2836.4	8926.9	13	164	80	159	26.5	20.7	13.3	35.8	36.7	35.7		6.4	4.6	4.2	BG
65	10/27/2006	516	2841.1	8929.5	13	111	53	106	26.5	23.6	17.3	35.6	36.5	36.3		6.3	4.2	4.4	BG
66	10/27/2006	855	2849.2	8920.7	13	73	36	69	25.6	25.1	19.2	32.6	36.4	36.5		6.9	5.2	3.9	BG
68	10/28/2006	1826	2911.0	8831.6	11	116	55	108	25.6	23.8	17.3	35.6	36.6	36.3		6.6	5.9	4.2	BG
69	10/28/2006	2129	2909.2	8837.7	11	99	47	92	25.7	25.3	20.2	35.5	36.4	36.6		6.6	6.0	4.5	BG
70	10/29/2006	130	2913.6	8842.5	11	69	32	63	25.5	26.0	20.5	35.2	35.8	36.5		6.8	6.4	4.4	BG
71	10/29/2006	524	2902.6	8847.0	11	160	76	151	25.7	20.4	15.3	35.1	36.6	36.0		6.4	4.4	4.3	BG
72	10/29/2006	1016	2858.1	8834.9		508	250	497	25.9	12.5	8.9	36.0	35.6	35.1		6.5	4.0	3.9	BG
73	10/29/2006	1202	2859.2	8830.4		352	249	496	25.7	12.7	9.0	36.0	35.6	35.1		6.4	4.0	3.9	PN
74	10/29/2006	1828	2916.1	8749.6		317	153	306	25.9	16.1	12.0	36.3	36.1	35.5		6.5	4.2	3.9	BG
75	10/30/2006	105	2945.4	8712.6	10	175	85	168	25.4	16.9	13.9	35.6	36.3	35.8		6.7	4.4	4.0	BG
76	10/30/2006	337	2949.5	8710.6	10	96	46	91	25.5	25.7	16.3	35.7	35.9	36.2		6.5	6.4	4.1	BG
77	11/5/2006	1116	2952.4	8707.9	10	79	40	77	25.0	25.1	20.7	36.3	36.3	36.6		6.5	6.5	4.8	BG
78	11/5/2006	1653	2949.1	8659.1	9	188	94	185	25.1	19.2	15.1	36.3	36.5	36.0		6.5	4.6	4.1	BG
79	11/5/2006	1955	2945.5	8654.0	9	191	95	188	25.0	18.7	14.5	36.3	36.5	35.9		6.5	4.7	3.9	BG
80	11/5/2006	2239	2947.6	8652.7	9	178	89	176	25.0	19.8	15.1	36.3	36.6	36.0		6.5	4.5	3.9	BG
81	11/6/2006	132	2959.6	8700.8	10	75	38	74	24.4	24.4	22.2	36.1	36.2	36.5		6.6	6.5	4.9	PN
82	11/6/2006	420	3000.5	8656.0	9	129	65	130	24.6	24.6	17.3	36.3	36.2	34.6		6.5	6.5	3.8	BG

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
83	11/6/2006	759	3001.7	8648.2	9	108	52	101	24.8	24.9	18.1	36.4	36.4	36.4		6.4	6.4	4.5	BG
84	11/6/2006	1230	2957.5	8640.1	9	107	52	102	24.8	24.8	19.2	36.4	36.4	36.5		6.5	6.5	4.3	BG
85	11/10/2006	2323	3002.0	8813.6	11	23	11	22	20.4	22.0	22.5	33.5	34.9	35.2		7.6	7.0	6.6	ST
86	11/11/2006	244	2958.8	8819.1	11	31	15	30	23.2	23.2	23.3	35.4	35.4	35.5		6.8	6.7	6.5	ST
87	11/11/2006	512	3004.6	8825.6	11	18	9	17	20.7	21.4	22.0	34.0	34.7	35.0		7.3	7.0	6.7	ST
88	11/11/2006	617	3003.6	8824.6	11	20	10	19	22.6	22.5	22.5	35.1	35.1	35.2		6.9	6.9	6.6	ST
89	11/11/2006	832	3000.2	8828.1	11	29	15	28	23.0	23.0	23.1	35.4	35.4	35.5		6.9	6.7	6.6	ST
90	11/11/2006	948	3000.5	8827.3	11	28	14	26	23.0	23.0	23.0	35.4	35.4	35.4		6.9	6.8	6.7	PN
91	11/11/2006	1321	3000.5	8756.9	10	25	11	22	21.2	21.9	22.5	34.1	34.7	35.2		7.2	7.1	6.7	PN
92	11/11/2006	1610	2958.1	8812.9	11	30	15	28	23.2	23.2	23.3	35.4	35.4	35.5		6.8	6.7	6.5	ST
93	11/11/2006	2001	2937.9	8821.4	11	42	21	41	24.0	24.4	24.7	35.9	36.1	36.3		6.7	6.6	6.4	ST
94	11/11/2006	2123	2935.7	8822.6	11														ST
95	11/11/2006	2323	2929.3	8830.8	11	51	26	49	23.6	24.6	24.7	35.3	36.3	36.3		6.9	6.5	6.3	PN
96	11/12/2006	134	2934.5	8826.2	11	44	23	44	24.1	24.4	24.7	35.8	36.0	36.3		6.7	6.6	6.4	ST
97	11/12/2006	307	2937.0	8826.5	11														ST
98	11/12/2006	502	2938.6	8821.2	11	41	21	40	24.2	24.2	24.6	36.0	36.0	35.9		6.6	6.6	6.0	ST
99	11/12/2006	633	2940.7	8820.0	11														ST
100	11/12/2006	933	2930.8	8812.2	11	46	22	41	24.2	24.2	24.3	36.2	36.2	36.2		6.6	6.6	6.6	ST
101	11/12/2006	1055	2928.4	8813.8	11														ST
102	11/12/2006	1325	2929.6	8803.2	11	46	21	42	23.8	23.8	23.8	35.9	35.9	35.9		6.7	6.6	6.6	PN
103	11/12/2006	1552	2914.8	8759.9		257	129	256	24.9	17.1	13.1	36.4	36.3	34.5		6.4	4.7	3.6	PN
104	11/12/2006	1950	2921.1	8808.8	11	80	41	80	24.8	24.7	20.9	36.4	36.3	36.6		6.5	6.5	4.5	ST
105	11/12/2006	2200	2919.3	8821.5	11	77	39	76	24.9	24.9	22.4	36.4	36.4	36.5		6.5	6.5	5.1	ST
106	11/12/2006	2334	2917.2	8821.6	11	63	32	62	24.6	24.6	24.3	36.3	36.3	36.2		6.5	6.5	6.5	ST
107	11/13/2006	251	2921.1	8808.8	11	79	39	78	24.8	24.8	20.9	36.4	36.4	36.6		6.4	6.5	4.5	ST
108	11/13/2006	503	2918.6	8809.0	11														ST
109	11/13/2006	728	2921.4	8756.0		87	44	85	24.9	24.9	19.9	36.4	36.4	36.5		6.4	6.5	4.5	ST

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
110	11/13/2006	1121	2912.4	8829.9	11	111	54	105	24.7	24.1	17.5	36.4	36.5	36.3		6.5	6.0	4.2	PN
111	11/13/2006	1403	2909.9	8838.2	11	84	42	81	24.6	24.6	20.2	36.4	36.4	36.6		6.5	6.5	4.6	ST
112	11/13/2006	1531	2908.7	8839.0	11														ST
113	11/13/2006	1719	2906.6	8840.2	11	114	57	112	24.6	22.0	16.7	36.4	36.6	36.2		6.6	5.1	4.3	ST
114	11/13/2006	2203	2859.5	8900.0		68	33	66	21.6	23.7	20.7	31.1	35.5	36.5		7.1	6.5	4.2	PN
115	11/14/2006	108	2908.0	8845.2	11	81	40	79	24.6	24.6	21.2	36.4	36.4	36.6		6.5	6.5	4.5	ST
116	11/14/2006	250	2909.7	8846.9	11														ST
117	11/14/2006	1318	2830.2	8959.6	13	192	93	186	23.5	18.0	14.9	35.0	36.4	36.0		6.7	4.4	4.2	PN
118	11/14/2006	1653	2842.8	8939.7	13	90	43	86	22.4	25.1	18.3	30.7	36.2	36.4		6.8	5.8	4.2	ST
119	11/14/2006	1837	2845.1	8939.6	13														ST
120	11/14/2006	2125	2858.2	8945.1	13	45	23	44	21.8	24.3	24.6	29.0	34.8	36.0		7.6	6.0	5.0	ST
121	11/15/2006	155	2852.4	9005.2	14	32	16	30	23.1	24.3	25.0	33.4	34.7	36.1		7.3	6.0	4.7	ST
122	11/15/2006	444	2842.0	8959.6	13	56	27	54	24.0	24.3	24.8	35.2	35.6	36.4		6.8	6.5	5.9	ST
123	11/15/2006	536	2841.6	9000.1	14	96	46	90	24.0	25.1	17.4	35.3	36.4	36.3		6.7	6.4	4.1	ST
124	11/15/2006	948	2859.2	9017.5	14	14	8	13	22.0	22.0	22.1	31.1	31.1	31.6		7.3	7.3	6.8	ST
125	11/15/2006	1228	2858.2	9017.4	14	17	7	12	22.1	22.1	22.1	31.2	31.1	31.1		7.1	7.1	7.1	ST
126	11/15/2006	1638	2906.3	9003.2	14	14	6	11	22.4	22.4	22.5	31.7	31.7	31.9		6.9	6.9	6.8	ST
127	11/15/2006	1854	2901.3	9001.5	14	21	11	18	22.6	22.9	24.2	31.8	32.6	34.6		7.0	6.6	4.7	PN
128	11/16/2006	1725	2905.4	8942.6	13	25	12	23	22.5	22.5	24.5	32.7	32.7	35.9		6.2	6.2	4.8	ST
129	11/16/2006	1938	2857.2	8932.8	13	47	23	46	21.3	25.0	21.0	30.6	36.2	35.5		6.7	5.5	3.7	PN
130	11/16/2006	2323	2901.1	8943.0	13	40	21	40	22.5	24.0	23.7	32.4	34.8	36.1		6.5	6.1	3.8	ST
131	11/17/2006	45	2903.6	8939.4	13	24	12	22	22.4	22.4	24.7	32.7	32.7	35.9		6.3	6.3	5.7	ST
132	11/17/2006	251	2857.7	8928.4	13	25	12	23	19.9	24.4	24.7	28.0	35.7	36.2		6.9	5.2	5.2	ST
133	11/17/2006	1014	2857.7	9012.6	14	18	10	17	21.0	21.2	22.1	32.6	33.0	33.6		6.7	6.7	6.3	ST
134	11/17/2006	1139	2854.7	9012.7	14	23	11	21	22.4	22.8	24.2	33.5	33.7	35.7		6.4	6.4	5.5	ST
135	11/17/2006	1241	2854.7	9012.6	14	23	12	22	22.5	22.8	24.7	33.6	33.8	36.4		6.4	6.4	5.1	ST
136	11/17/2006	1501	2846.5	9010.5	14	34	16	31	22.8	22.8	23.0	34.2	34.2	36.5		6.7	6.7	4.8	ST

Table 2. Selected environmental parameters (continued)

GORDON GUNTER, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
137	11/17/2006	1720	2846.5	9018.3	14	25	12	23	22.6	22.6	24.5	33.8	33.9	36.1		3.0	6.5	5.7	ST
138	11/17/2006	1917	2838.2	9022.4	14	31	15	30	22.8	22.7	23.6	34.4	34.5	35.3		6.6	6.5	6.2	ST
139	11/17/2006	2045	2836.2	9022.2	14	36	18	35	23.4	23.2	23.6	35.0	35.0	35.5		6.7	6.5	6.2	ST
140	11/17/2006	2236	2830.7	9027.6	14	41	19	38	23.4	23.5	23.9	35.5	35.5	35.9		6.8	6.7	6.3	ST
141	11/17/2006	2333	2830.7	9029.9	14	40	20	38	23.4	23.6	23.8	35.5	35.6	35.8		6.6	6.5	6.2	PN
142	11/18/2006	26	2829.7	9030.0	14	42	22	41	23.4	23.4	23.9	35.6	35.6	36.1		6.8	6.8	6.2	ST
143	11/18/2006	217	2825.5	9028.7	14	47	23	46	23.6	23.7	24.0	36.0	36.0	35.0		6.6	6.5	5.8	ST
144	11/18/2006	410	2820.9	9024.3	14	56	28	55	24.0	24.0	24.1	36.5	36.5	36.6		6.4	6.4	6.1	ST
145	11/18/2006	654	2814.4	9021.5	14	87	44	85	24.6	24.3	20.6	36.6	36.6	36.5		6.4	6.4	4.4	ST
146	11/18/2006	758	2813.8	9020.7	14	115	58	114	24.7	24.4	15.6	36.6	36.6	36.1		6.3	6.3	4.3	ST
147	11/18/2006	1045	2804.4	9030.5	14	137	76	150	24.6	20.7	14.3	36.6	36.6	35.9		6.4	4.4	4.2	PN
148	11/18/2006	1337	2816.1	9033.5	14	62	31	60	23.9	23.9	22.5	36.5	36.5	36.6		6.5	6.5	5.0	ST
149	11/18/2006	1716	2819.0	9034.6	14	56	28	55	23.6	23.8	22.5	36.2	36.3	36.6		6.6	6.5	4.6	ST
150	11/18/2006	1941	2831.3	9039.7	14	32	16	31	22.7	22.8	23.4	35.1	35.2	35.5		6.7	6.5	6.2	ST
151	11/18/2006	2036	2832.7	9040.2	14	26	14	25	22.7	22.7	22.8	35.1	35.1	35.1		6.7	6.5	6.4	ST
152	11/18/2006	2138	2833.7	9040.5	14	21	11	20	22.4	22.4	22.5	34.8	34.9	35.0		6.8	6.8	6.6	ST
153	11/19/2006	107	2830.1	9100.2	15	34	17	33	21.8	22.4	23.8	34.3	34.8	36.1		6.8	6.6	6.3	PN
154	11/19/2006	202	2829.9	9100.2	15	34	16	31	21.8	22.2	23.8	34.3	34.7	36.1		6.8	6.7	6.3	ST
155	11/19/2006	329	2832.0	9101.7	15	31	15	29	21.4	22.4	23.7	33.8	34.6	36.0		7.0	6.5	6.2	ST
156	11/19/2006	512	2834.1	9108.7	15	29	15	28	21.0	22.3	23.1	33.6	34.9	35.6		7.3	6.7	6.3	ST
157	11/19/2006	642	2838.3	9111.0	15	22	12	21	20.3	21.8	22.8	32.7	34.0	35.3		7.0	6.6	6.2	ST
158	11/19/2006	929	2829.3	9130.2	15	47	23	45	23.4	23.4	23.3	36.1	36.1	36.1		6.6	6.6	6.6	PN

Table 2. Selected environmental parameters (continued)

TOMMY MUNRO, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	10/5/2006	1344	2905.5	8858.3	11		21	41	27.6	29.0	23.1	26.6	34.8	34.8		5.9	4.5	5.0	ST
2	10/5/2006	1701	2907.2	8857.2	11		15	29	27.9	29.1	26.4	24.4	33.7	35.5		6.8	4.9	4.4	ST
3	10/5/2006	1931	2916.6	8857.5	11		13	25	28.9	28.8	24.2	32.3	33.1	35.3		6.3	5.0	4.5	ST
4	10/6/2006	11	2916.0	8855.8	11		17	34	28.1	28.8	28.6	30.1	33.3	34.7		5.5	4.4	4.7	ST
5	10/6/2006	347	2915.4	8855.4	11		18	36	27.8	28.2	24.4	27.5	35.2	35.5		6.2	5.1	4.1	ST
6	10/6/2006	534	2917.6	8848.1	11		27	54	28.1	24.5	23.2	31.1	35.9	35.8		6.1	6.1	5.3	ST
7	10/6/2006	1028	2929.6	8841.9	11		12	23	27.5	28.9	27.9	30.5	35.0	35.6		6.7	5.5	4.5	ST
8	10/6/2006	1208	2923.2	8836.0	11		28	55	27.8	21.5	19.4	30.7	35.8	35.4		6.2	5.5	4.7	ST
9	10/6/2006	1436	2930.8	8836.1	11		19	37	28.1	28.9	25.8	31.7	35.7	35.9		4.6	4.0	5.0	ST
10	10/6/2006	1614	2932.2	8838.5	11		13	26	28.7	29.2	28.1	32.5	35.2	35.7		5.2	5.3	3.7	ST
11	10/6/2006	1725	2934.5	8837.0	11		12	23	28.7	29.1	28.3	32.5	34.7	35.9		5.8	6.8	5.4	ST
12	10/6/2006	1851	2932.7	8829.1	11		23	45	28.5	28.3	24.5	32.0	35.9	36.1		6.0	6.1	5.4	ST
13	10/6/2006	2110	2941.1	8833.6	11		13	26	28.6	29.2	28.6	32.4	35.1	36.1		6.9	6.1	6.4	ST
14	10/7/2006	2	2943.5	8853.4	11		3	5	28.3	28.2	28.3	32.8	32.7	32.6		5.5	4.8	5.1	ST
15	10/7/2006	158	2942.4	8853.1	11		3	5	28.3	28.1	28.1	32.1	32.5	32.5		6.2	5.3	5.4	ST
16	10/7/2006	350	2935.5	8845.5	11		8	16	28.2	28.3	28.0	32.3	33.3	35.8		5.5	5.1	5.4	ST
17	10/7/2006	1029	3006.6	8836.8	11		7	14	27.5	27.2	27.3	33.1	33.0	33.5		6.4	6.5	5.3	ST
18	10/7/2006	1251	3005.3	8835.9	11		8	16	27.1	27.4	27.9	33.3	33.2	34.4		5.1	5.7	5.0	ST
19	10/7/2006	1505	3008.8	8846.6	11		6	12	27.1	27.4	27.4	33.4	33.2	33.3		5.5	5.4	5.3	ST
20	10/7/2006	1602	3009.0	8846.5	11		6	12	27.1	27.4	27.4	33.4	33.2	33.3		5.5	5.4	5.3	ST
21	10/7/2006	1750	2959.5	8847.9	11		4	8	27.1	27.1	27.1	32.3	32.3	32.1		7.3	7.3	7.2	ST
22	10/7/2006	1924	2951.5	8844.1	11		7	14	27.5	27.7	27.7	33.3	33.2	33.5		6.0	6.1	5.2	ST
23	10/7/2006	2357	2944.1	8830.8	11		16	31	28.1	28.7	26.3	34.1	35.0	36.0		5.1	4.8	4.1	ST
24	10/8/2006	133	2949.9	8834.1	11		13	25	27.7	27.8	27.3	32.7	33.9	35.8		5.3	4.8	4.7	ST

Table 2. Selected environmental parameters (continued)

A.E. VERRILL, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
1	10/25/2006	1209	3002.9	8814.6	11	22	11	22	24.9	24.8	25.7	35.0	34.9	35.4		6.0	6.0	5.7	ST
2	10/25/2006	1347	3002.0	8822.6	11	23	11	23	25.5	25.5	26.0	35.4	35.4	35.9		0.0	5.8	3.9	ST
3	10/25/2006	1516	3010.6	8826.1	11	13	7	13	21.9	21.9	22.7	32.9	33.0	33.6		6.8	6.8	6.2	ST
4	10/25/2006	1707	3006.7	8815.7	11	20	10	20	24.4	24.4	25.1	34.6	34.6	35.1		6.4	6.4	5.6	ST
5	10/25/2006	1834	3010.8	8815.3	11	15	8	15	23.4	23.4	23.4	33.9	33.9	33.9		6.4	6.7	6.3	ST
6	10/25/2006	2002	3011.1	8808.6	11	13	7	13	22.7	23.0	23.1	32.3	33.3	33.8		6.4	6.3	6.1	ST
7	11/9/2006	1602	2955.5	8813.5	11	33	17	33	24.1	23.2	23.2	34.5	35.4	35.4		6.7	6.3	6.1	ST
8	11/9/2006	1846	2957.1	8820.1	11	31	16	31	23.2	23.0	23.1	35.3	35.3	35.3		6.5	6.2	6.2	ST
9	11/9/2006	2108	3002.1	8810.4	11	24	12	24	21.5	22.3	22.5	34.5	35.2	35.2		6.7	6.5	6.2	ST

Table 2. Selected environmental parameters (continued)

PELICAN, FALL SHRIMP GROUND FISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
35001	12/12/2006	930	2860.0	9029.9	14	7	5	7	17.0	16.9	16.8	31.3	31.3	31.2	2.347	8.1	8.1	8.0	PN
35002	12/12/2006	1306	2900.0	9000.3	14	22	11	22	17.7	18.6	22.2	30.8	32.9	35.9	1.377	7.8	7.0	4.6	PN
35003	12/12/2006	1447	2902.3	8955.5	13	22	12	22	17.8	18.2	20.8	30.8	32.4	34.9	2.019	7.9	7.4	6.2	ST
35004	12/12/2006	1645	2907.6	9002.8	14	10	5	10	17.6	17.6	15.0	31.1	31.1	31.8	3.672	8.2	8.1	7.7	ST
35005	12/12/2006	2054	2907.8	9002.4	14	10	5	10	17.6	17.5	14.7	31.1	31.1	31.8	2.066	8.2	8.0	7.4	ST
35006	12/12/2006	2311	2902.1	8955.3	13	25	12	25	17.8	20.0	21.4	30.9	34.5	35.6	1.447	7.9	6.8	5.8	ST
35007	12/13/2006	230	2912.0	8938.7	13	11	5	11	17.1	15.5	15.1	28.5	21.7	23.4	5.611	8.9	3.5	5.4	ST
35008	12/13/2006	544	2906.7	8937.7	13	36	17	36	17.5	18.4	22.1	30.1	33.7	36.3	1.147	7.9	6.0	5.0	ST
35009	12/13/2006	747	2859.9	8930.1	13	14	7	14	16.7	17.0	22.1	25.1	31.2	36.0	3.311	8.4	7.5	5.0	PN
35010	12/13/2006	958	2906.8	8937.8	13	13	7	13	17.2	17.2	17.1	29.6	32.3	33.2	7.801	8.7	7.8	6.7	ST
35011	12/13/2006	1142	2912.0	8938.8	13	9	5	9	17.0	16.7	19.5	26.3	30.7	32.5	12.327	8.9	8.9	7.9	ST
35012	12/13/2006	1758	2837.0	9026.6	14	28	14	28	21.5	21.5	21.6	36.2	36.2	36.4	0.989	6.7	6.7	6.2	ST
35013	12/13/2006	2013	2836.9	9026.7	14	28	14	28	21.5	21.5	21.6	36.2	36.2	36.4	0.989	6.7	6.7	6.2	ST
35014	12/13/2006	2213	2837.6	9037.3	14	20	9	20	21.0	21.0	21.2	36.0	36.0	36.0	0.735	6.7	6.7	6.3	ST
35015	12/13/2006	2354	2829.6	9039.8	14	34	18	34	21.1	21.1	21.4	36.3	36.3	36.4	0.479	6.6	6.6	6.2	ST
35016	12/14/2006	126	2829.8	9046.4	14	31	15	31	21.2	21.2	21.2	36.3	36.3	36.3	0.563	6.6	6.6	6.3	ST
35017	12/14/2006	341	2838.7	9057.3	14	17	9	17	20.8	20.8	20.8	36.1	36.1	36.1	0.900	6.5	6.5	6.5	ST
35018	12/14/2006	519	2836.4	9104.1	15	21	10	21	20.7	20.7	20.7	36.1	36.1	36.1	0.600	6.6	6.6	6.5	ST
35019	12/14/2006	855	2830.0	9030.0	14	37	18	37	21.2	21.2	20.9	36.3	36.3	36.2	0.512	6.5	6.5	6.2	PN
35020	12/14/2006	1053	2837.5	9037.3	14	18	10	18	20.6	20.7	21.0	35.6	35.7	35.9	0.997	6.9	6.8	6.3	ST
35021	12/14/2006	1245	2829.2	9039.8	14	33	17	33	21.2	21.2	21.3	36.3	36.3	36.4	0.726	6.6	6.6	6.1	ST
35022	12/14/2006	1432	2829.7	9046.5	14	30	16	30	21.3	21.2	21.2	36.2	36.3	36.3	0.918	6.6	6.5	6.3	ST
35023	12/14/2006	1646	2838.7	9057.4	14	15	7	15	20.0	20.3	20.5	35.3	35.6	35.9	1.236	7.1	7.0	6.6	ST
35024	12/14/2006	1801	2836.3	9104.0	15	24	12	24	20.6	20.8	20.8	35.9	36.1	36.2	0.824	6.8	6.7	6.5	ST
35025	12/14/2006	2031	2834.1	9110.5	15	24	12	24	18.5	20.2	20.4	32.9	35.6	36.0	0.365	7.4	6.9	6.4	ST
35026	12/14/2006	2152	2837.3	9111.4	15	31	15	31	21.1	21.1	21.1	36.2	36.2	36.3	0.711	6.7	6.7	6.6	ST
35027	12/15/2006	759	2830.0	9100.0	15	31	16	31	21.0	21.0	21.0	36.2	36.2	36.2	0.391	6.7	6.7	6.7	PN

Table 2. Selected environmental parameters (continued)

PELICAN, FALL SHRIMP/GROUNDFISH SURVEY

STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
35028	12/15/2006	1004	2834.1	9110.5	15	26	14	26	18.5	20.7	20.9	32.8	36.1	36.2	1.307	7.3	6.6	6.5	ST
35029	12/15/2006	1122	2837.4	9111.4	15	22	11	22	18.3	19.8	20.6	32.5	35.4	36.1	1.797	7.5	6.5	6.4	ST
35030	12/15/2006	1441	2900.0	9060.0	14	5	3	5	16.9	16.8	16.7	31.4	31.4	31.4	3.052	8.1	8.0	7.7	PN

Table 2. Selected environmental parameters (continued)

MATAGORDA BAY, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
32001	11/1/2006	731	2749.5	9701.5	20	14	6	14	24.9	25.3	26.1	33.2	35.1	35.3		11.1	8.4	5.0	ST
32002	11/1/2006	814	2748.9	9658.7	20	16	5	16	25.5	25.5	26.2	34.4	34.4	35.6		8.7	8.1	5.5	ST
32003	11/1/2006	915	2748.6	9656.6	20	19	10	19	25.5	25.7	26.2	34.4	34.6	35.9		8.6	8.6	6.3	ST
32004	11/1/2006	939	2750.1	9654.7	20	19	9	19	25.4	25.6	26.3	34.3	34.5	36.1		8.6	8.2	5.9	ST
32005	11/1/2006	1032	2753.8	9650.6	20	19	10	19	25.4	25.4	26.3	34.2	34.4	36.0		9.5	8.4	6.2	ST
32006	11/1/2006	1109	2754.3	9650.7	20	19	7	19	25.4	25.4	25.5	34.3	34.3	34.4		9.2	8.7	7.4	ST
32007	11/1/2006	1143	2755.8	9650.7	20	17	6	17	25.4	25.4	25.4	34.2	34.2	34.2		8.7	9.0	7.3	ST
32008	11/1/2006	1256	2757.1	9651.5	20	14	7	14	25.4	25.5	25.9	34.1	34.2	34.7		8.8	7.8	6.5	ST
32009	11/8/2006	841	2826.5	9615.6	19	9	4	9	21.5	21.6	21.8	27.7	27.8	28.7		10.0	11.3	5.8	ST
32010	11/8/2006	908	2827.6	9614.5	19	8	4	8	21.6	21.6	21.7	27.7	28.0	28.5		9.0	8.6	7.2	ST
32011	11/8/2006	949	2825.4	9611.6	19	13	7	13	21.7	21.6	22.2	28.3	28.8	30.0		10.0	10.8	14.1	ST
32012	11/8/2006	1032	2828.5	9609.4	19	11	6	11	22.0	21.5	21.5	27.9	28.3	28.4		9.6	7.9	7.1	ST
32013	11/8/2006	1104	2830.4	9607.5	19	9	5	9	22.0	21.5	21.5	27.8	28.0	28.2		9.7	7.5	6.9	ST
32014	11/8/2006	1205	2824.5	9603.4	19	18	9	18	22.9	22.5	22.7	30.7	30.8	30.9		9.6	9.7	6.7	ST
32015	11/8/2006	1253	2822.5	9609.5	19	17	9	17	22.6	22.9	22.8	29.5	30.9	31.1		9.9	7.3	6.4	ST
32016	11/8/2006	1353	2822.5	9615.5	19	15	7	15	22.3	21.8	22.5	27.8	29.4	30.6		10.2	6.5	6.2	ST
32017	11/16/2006	946	2817.6	9628.5	19	6	3	6	20.5	20.4	20.4	30.1	30.1	30.3		12.8	4.3	3.9	ST
32018	11/16/2006	1021	2816.5	9630.6	19	7	3	7	20.4	20.4	21.4	29.9	29.9	29.9		8.9	8.1	10.7	ST
32019	11/16/2006	1109	2814.5	9625.4	19	16	8	16	21.7	22.1	23.3	31.1	31.6	33.0		9.4	8.4	6.8	ST
32020	11/16/2006	1205	2814.5	9617.6	19	21	11	21	21.8	22.1	24.3	31.5	31.8	34.4		10.4	8.5	7.5	ST
32021	11/16/2006	1248	2817.5	9615.4	19	19	10	19	21.7	22.1	24.2	31.3	31.7	34.2		10.8	9.5	8.4	ST
32022	11/16/2006	1328	2818.5	9617.6	19	18	9	18	21.8	22.0	24.4	31.4	31.8	33.3		10.1	7.4	7.4	ST
32023	11/16/2006	1406	2821.5	9614.4	19	16	8	16	21.8	22.8	24.4	31.3	34.0	34.4		10.4	6.1	6.0	ST
32024	11/16/2006	1443	2822.5	9616.6	19	13	7	13	22.3	23.5	24.5	32.0	33.0	34.4		9.8	6.1	5.9	ST
32025	11/20/2006	837	2746.9	9703.5	20	9	5	9	21.3	21.3	21.3	31.9	31.9	31.8		11.8	6.8	6.4	ST
32026	11/20/2006	920	2745.1	9705.6	20	9	5	9	21.0	21.1	21.1	31.8	31.7	31.7		8.3	6.5	6.6	ST
32027	11/20/2006	1017	2742.6	9701.3	20	18	8	18	21.9	21.9	21.9	32.4	32.4	32.4		10.7	6.6	6.7	ST

Table 2. Selected environmental parameters (continued)

MATAGORDA BAY, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE		POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
	MM/DD/YY	TIME	LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
32028	11/20/2006	1054	2742.4	9700.5	20	19	9	19	21.9	21.9	21.9	32.4	32.4	32.4		10.4	6.9	6.9	ST
32029	11/20/2006	1220	2745.7	9654.5	20	21	11	21	21.9	21.9	22.4	32.5	32.6	32.9		10.5	7.0	6.7	ST
32030	11/20/2006	1300	2746.1	9654.6	20	22	10	22	22.3	22.3	22.7	32.9	32.9	32.9		10.8	7.1	6.8	ST
32031	11/20/2006	1337	2747.3	9653.5	20	22	10	22	22.2	22.2	22.6	32.9	32.9	33.1		10.9	7.0	6.9	ST
32032	11/20/2006	1425	2748.8	9653.4	20	20	10	20	22.2	22.3	22.3	32.9	32.9	32.9		10.3	7.2	7.1	ST

Table 2. Selected environmental parameters (continued)

SABINE, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
40001	11/1/2006	803	2936.1	9349.2	17	9	4	9	22.5	22.6	22.5	18.0	28.5	16.1		8.2	7.8	7.2	ST
40002	11/1/2006	914	2940.2	9357.8	17	3	1	3	22.0	21.8	22.1	18.2	18.3	19.0		7.8	7.5	7.3	ST
40003	11/1/2006	1011	2939.2	9404.4	18	4	2	4	22.8	22.7	23.1	21.1	27.7	28.9		8.6	8.2	8.2	ST
40004	11/1/2006	1058	2936.6	9401.8	18	7	4	7	22.9	23.0	23.2	18.8	28.4	29.3		8.5	8.7	8.5	ST
40005	11/1/2006	1145	2937.6	9358.2	17	6	3	6	23.9	22.9	23.2	17.1	25.4	26.8		8.6	8.4	7.8	ST
40006	11/1/2006	1316	2933.5	9357.9	17	10	5	10	23.4	23.2	23.0	15.8	27.1	28.5		8.5	8.7	8.6	ST
40007	11/1/2006	1401	2934.5	9355.3	17	9	5	9	23.7	23.3	23.2	16.2	26.5	27.8		8.7	8.4	8.4	ST
40008	11/1/2006	1452	2932.5	9354.2	17	12	6	12	23.4	22.6	22.6	13.7	27.8	28.9		9.6	8.3	8.1	ST
40009	11/17/2006	740	2938.5	9346.9	17	8	4	8	17.9	18.0	18.5	27.5	27.4	22.7		8.2	8.3	7.8	ST
40010	11/17/2006	829	2940.5	9345.2	17	7	4	7	17.7	17.9	18.1	27.1	27.1	28.9		9.2	8.8	8.6	ST
40011	11/17/2006	904	2942.2	9347.8	17	2	1	2	16.1	16.2	16.3	26.8	26.7	26.7		9.3	9.0	8.8	ST
40012	11/17/2006	1008	2941.5	9341.2	17	7	4	7	18.1	18.2	18.9	26.9	26.9	29.1		9.3	8.9	8.2	ST
40013	11/17/2006	1043	2944.4	9340.7	17	3	2	3	17.6	17.6	17.6	26.8	26.7	26.7		9.3	8.9	8.7	ST
40014	11/17/2006	1114	2943.7	9338.2	17	6	3	6	18.1	18.2	18.2	26.3	26.3	26.6		9.6	9.1	8.5	ST
40015	11/17/2006	1148	2941.5	9338.8	17	8	4	8	18.4	18.4	18.5	26.7	26.7	29.0		9.1	8.9	8.5	ST
40016	11/17/2006	1250	2935.5	9341.2	17	11	6	11	18.7	18.8	19.1	28.7	26.7	30.4		10.5	9.6	8.8	ST

Table 2. Selected environmental parameters (continued)

SAN JACINTO, FALL SHRIMP/GOUNDFISH SURVEY																			
STA#	DATE MM/DD/YY	TIME	POSITION		STAT ZONE	DEPTH (M)	SAMPLE DEPTHS (M)		TEMPERATURE, C			SALINITY, PPT			FL SUR	DISSOLVED OXYGEN, PPM			GEAR
			LAT	LONG			MID	MAX	SUR	MID	MAX	SUR	MID	MAX		SUR	MID	MAX	
69001	11/1/2006	912	2917.7	9437.3	18	12	6	12	23.2	23.4	24.3	26.7		28.7		7.3	6.7	4.5	ST
69002	11/1/2006	952	2914.2	9437.8	18	14	7	14	22.9	23.7	24.4	24.8	28.8	30.7		8.0	5.3	4.9	ST
69003	11/1/2006	1058	2911.7	9440.4	18	15	8	15	23.5	24.3	24.3	26.4	31.1	31.2		7.8	6.8	6.2	ST
69004	11/1/2006	1139	2909.2	9443.9	18	15	8	15	24.6	24.6	24.5	32.2	32.4	32.4		6.6	6.5	5.0	ST
69005	11/1/2006	1216	2909.1	9446.4	18	14	7	14	23.9	24.6	24.6	28.0	30.2	28.0		7.5	6.6	6.4	ST
69006	11/1/2006	1303	2912.1	9443.8	18	13	7	13	23.5	24.1	24.0	27.5	26.8	29.4		8.0	7.1	6.8	ST
69007	11/1/2006	1337	2914.8	9444.2	18	9	5	9	23.7	23.6	23.6	28.6	28.5	28.6		7.4	7.4	6.9	ST
69008	11/1/2006	1419	2915.1	9449.8	18	5	3	5	23.5	23.6	23.7	26.5	28.5	29.5		7.6	6.6	6.2	ST
69009	11/27/2006	1056	2919.2	9436.8	18	12	6	12	18.9	18.9	18.9	29.4	29.5	29.5		7.5	7.5	7.2	ST
69010	11/27/2006	1153	2921.8	9431.5	18	11	6	11	19.1	19.1	19.1	29.9	29.8	29.9		7.6	7.8	7.8	ST
69011	11/27/2006	1231	2922.2	9429.0	18	11	6	11	19.0	18.9	18.9	29.5	29.5	29.7		7.7	7.6	7.5	ST
69012	11/27/2006	1315	2927.8	9432.3	18	7	6	7	18.3	18.3	18.3	27.9	27.7	27.7		7.6	7.7	7.6	ST
69013	11/27/2006	1355	2923.1	9436.9	18	8	4	8	18.9	18.9	18.9	29.0	28.9	28.9		7.4	7.5	7.6	ST
69014	11/27/2006	1422	2922.8	9437.3	18	8	4	8	18.9	18.9	18.8	28.9	28.9	29.0		7.5	7.6	7.5	ST
69015	11/27/2006	1450	2925.1	9440.5	18	4	3	4	18.7	18.7	18.7	27.5	27.4	27.4		7.0	7.2	7.0	ST
69016	11/27/2006	1520	2924.5	9441.4	18	3	2	3	18.9	19.0	19.1	27.5	27.5	27.6		7.1	7.0	6.9	ST

Table 3. 2006 Summer Shrimp/Groundfish Survey species composition list, 352 trawl stations, for those vessels that used either a 40-ft or 20-ft trawl.

Species with a total weight of less than 0.0227 kg (0.05 lb) are indicated on the table as 0.0 kg.

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER CAUGHT	TOTAL WEIGHT CAUGHT (KG)	NUMBER OF TOWS WHERE CAUGHT	% FREQUENCY OCCURRENCE
<u>Finfishes</u>					
Micropogonias undulatus	Atlantic croaker	119000	3479.0	183	52.0
Stenotomus caprinus	longspine porgy	77667	1596.0	246	69.9
Chloroscombrus chrysurus	Atlantic bumper	44374	1170.0	172	48.9
Prionotus rubio	blackwing searobin	10610	179.8	133	37.8
Peprilus burti	gulf butterfish	9531	530.0	162	46.0
Saurida brasiliensis	largescale lizardfish	8989	41.1	143	40.6
Cynoscion nothus	silver seatrout	8230	302.3	119	33.8
Anchoa hepsetus	striped anchovy	6381	100.0	90	25.6
Trichiurus lepturus	Atlantic cutlassfish	5869	144.1	121	34.4
Serranus atrobranchus	blackear bass	5219	40.8	101	28.7
Leiostomus xanthurus	spot	4762	338.5	103	29.3
Larimus fasciatus	banded drum	4697	141.5	69	19.6
Synodus foetens	inshore lizardfish	4489	449.8	217	61.6
Trachurus lathami	rough scad	4290	110.4	90	25.6
Centropristis philadelphica	rock sea bass	3914	126.2	185	52.6
Cynoscion arenarius	sand seatrout	3641	253.0	137	38.9
Syacium gunteri	shoal flounder	3242	63.4	149	42.3
Upeneus parvus	dwarf goatfish	2717	74.7	120	34.1
Halieutichthys aculeatus	pancake batfish	2314	13.3	80	22.7
Steindachneria argentea	luminous hake	2285	8.6	6	1.7
Lagodon rhomboides	pinfish	2081	96.6	116	33.0
Harengula jaguana	scaled sardine	2040	92.3	61	17.3
Prionotus stearnsi	shortwing searobin	2033	19.1	76	21.6
Stellifer lanceolatus	star drum	1722	32.3	32	9.1
Pristipomoides aquilonaris	wenchman	1321	113.0	57	16.2
Trichopsetta ventralis	sash flounder	1316	26.3	51	14.5
Selene setapinnis	Atlantic moonfish	1261	65.2	99	28.1

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Prionotus paralatus</i>	Mexican searobin	1047	32.0	51	14.5
<i>Synodus poeyi</i>	offshore lizardfish	899	4.2	68	19.3
<i>Lutjanus synagris</i>	lane snapper	823	35.4	64	18.2
<i>Diplectrum bivittatum</i>	dwarf sand perch	805	15.1	63	17.9
<i>Eucinostomus gula</i>	silver jenny	679	23.8	52	14.8
<i>Opisthonema oglinum</i>	Atlantic thread herring	670	60.3	47	13.4
<i>Sphaeroides parvus</i>	least puffer	641	2.3	64	18.2
<i>Lutjanus campechanus</i>	red snapper	627	51.5	127	36.1
<i>Arius felis</i>	hardhead catfish	619	58.2	37	10.5
<i>Lepophidium brevibarbe</i>	blackedge cusk-eel	619	15.9	61	17.3
<i>Cyclopsetta chittendeni</i>	Mexican flounder	534	61.6	91	25.9
<i>Anchoa mitchilli</i>	bay anchovy	514	0.5	23	6.5
<i>Etropus crossotus</i>	fringed flounder	495	5.0	51	14.5
<i>Menticirrhus americanus</i>	southern kingfish	491	52.1	31	8.8
<i>Anchoa lyolepis</i>	dusky anchovy	481	1.0	10	2.8
<i>Mullus auratus</i>	red goatfish	466	30.0	24	6.8
<i>Prionotus longispinosus</i>	bigeye searobin	459	7.3	46	13.1
<i>Syacium papillosum</i>	dusky flounder	451	10.3	48	13.6
<i>Porichthys plectrodon</i>	Atlantic midshipman	450	9.0	62	17.6
<i>Balistes capriscus</i>	gray triggerfish	439	10.8	57	16.2
<i>Symphurus plagiusa</i>	blackcheek tonguefish	381	6.9	46	13.1
<i>Sardinella aurita</i>	spanish sardine	333	7.4	18	5.1
<i>Brevoortia patronus</i>	gulf menhaden	299	12.8	31	8.8
<i>Prionotus roseus</i>	bluespotted searobin	296	13.1	35	9.9
<i>Urophycis floridana</i>	southern hake	280	23.0	36	10.2
<i>Bagre marinus</i>	gafftopsail catfish	269	3.5	9	2.6
<i>Scorpaena calcarata</i>	smoothhead scorpionfish	220	2.9	19	5.4
<i>Lagocephalus laevigatus</i>	smooth puffer	195	4.5	44	12.5
<i>Citharichthys spilopterus</i>	bay whiff	178	1.7	32	9.1
<i>Haemulon aurolineatum</i>	tomtate	174	11.7	13	3.7

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Conodon nobilis	barred grunt	162	1.3	4	1.1
Cynoscion spp.	seatrouts	161	0.4	12	3.4
Bregmaceros atlanticus	antenna codlet	160	0.5	18	5.1
Polydactylus octonemus	Atlantic threadfin	151	6.6	15	4.3
Sphyræna guachancho	guaguanche	145	23.8	35	9.9
Bollmannia communis	ragged goby	142	0.3	19	5.4
Kathetostoma albigutta	lancer stargazer	141	6.0	27	7.7
Monacanthus hispidus	planehead filefish	139	1.5	35	9.9
Orthopristis chrysoptera	pigfish	138	7.1	13	3.7
Citharichthys macrops	spotted whiff	125	1.4	17	4.8
Urophycis cirrata	gulf hake	121	3.7	12	3.4
Peprilus alepidotus	harvestfish	117	8.5	23	6.5
Gymnachirus texae	fringed sole	115	1.6	24	6.8
Hoplunnis macrurus	freckled pike-conger	113	1.0	30	8.5
Hildebrandia flava	yellow conger	99	5.9	22	6.3
Etrumeus teres	round herring	97	0.9	17	4.8
Raja texana	roundel skate	95	33.6	48	13.6
Hemicaranx amblyrhynchus	bluntnose jack	94	10.6	11	3.1
Ancylopsetta dilecta	three-eye flounder	92	4.8	24	6.8
Ancylopsetta quadrocellata	ocellated flounder	89	9.4	29	8.2
Anchoa lamprotaenia	big-eye anchovy	76	0.1	1	0.3
Prionotus tribulus	bighead searobin	76	3.5	19	5.4
Chaetodipterus faber	Atlantic spadefish	71	3.0	10	2.8
Equetus umbrosus	cubbyu	66	1.8	13	3.7
Ogcocephalus radiatus	polka-dot batfish	64	7.9	13	3.7
Engyophrys senta	spiny flounder	62	0.2	15	4.3
Umbrina coroides	sand drum	53	1.4	1	0.3
Lonchopisthus micrognathus	swordtail jawfish	49	0.5	11	3.1
Decapterus punctatus	round scad	47	3.4	12	3.4
Lepophidium jeannae	mottled cusk-eel	45	1.4	7	2.0

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Ogcocephalus parvus</i>	roughback batfish	45	0.8	8	2.3
<i>Rhomboplites aurorubens</i>	vermillion snapper	45	6.8	4	1.1
<i>Rhizoprionodon terraenovae</i>	Atlantic sharpnose shark	44	17.0	20	5.7
<i>Symphurus diomedianus</i>	spottedfin tonguefish	44	2.1	11	3.1
<i>Lutjanus</i>	common snappers	43	0.1	3	0.9
<i>Ogcocephalus pantostictus</i>	spotted batfish	42	1.7	9	2.6
<i>Antennarius radiosus</i>	singlespot frogfish	37	0.6	10	2.8
<i>Citharichthys</i>	lefteye flounders	36	0.2	2	0.6
<i>Ophidion welshi</i>	crested cusk-eel	36	1.3	11	3.1
<i>Bairdiella chrysoura</i>	silver perch	35	1.2	8	2.3
<i>Equetus wamotoi</i>	blackbar drum	34	1.9	12	3.4
<i>Mulloidichthys martinicus</i>	yellow goatfish	34	2.8	3	0.9
<i>Paraconger caudilimbatus</i>	margintail conger	34	1.7	4	1.1
<i>Caranx crysos</i>	blue runner	33	1.4	10	2.8
<i>Diplectrum formosum</i>	sand perch	33	1.9	9	2.6
<i>Bellator militaris</i>	horned searobin	32	0.1	9	2.6
<i>Brotula barbata</i>	bearded brotula	32	3.4	12	3.4
<i>Scomberomorus cavalla</i>	king mackerel	32	6.8	15	4.3
<i>Ophidion holbrookii</i>	bank cusk-eel	31	1.1	6	1.7
<i>Selar crumenophthalmus</i>	bigeye scad	31	3.3	11	3.1
<i>Caulolatilus intermedius</i>	anchor tilefish	30	1.6	15	4.3
<i>Diaphus</i>	lanternfishes	30	0.1	1	0.3
<i>Chilomycterus schoepfi</i>	striped burrfish	29	7.5	10	2.8
<i>Ogcocephalus declivirostris</i>	slantbrow batfish	29	5.3	13	3.7
<i>Scomberomorus maculatus</i>	spanish mackerel	29	5.5	17	4.8
<i>Aluterus heudeloti</i>	dotterel filefish	27	0.4	6	1.7
<i>Paralichthys lethostigma</i>	southern flounder	27	15.2	18	5.1
<i>Uraspis secunda</i>	cottonmouth jack	25	3.4	1	0.3
<i>Dorosoma petenense</i>	threadfin shad	24	1.4	6	1.7
<i>Mustelus canis</i>	smooth dogfish	24	23.0	15	4.3

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Neomerinthe hemingwayi</i>	spinycheek scorpionfish	24	5.6	6	1.7
<i>Rypticus maculatus</i>	whitespotted soapfish	23	0.8	7	2.0
<i>Synodus intermedius</i>	sand diver	23	0.5	2	0.6
<i>Gymnothorax nigromarginatus</i>	blackedge moray	21	2.6	11	3.1
<i>Peristedion gracile</i>	slender searobin	20	0.5	2	0.6
<i>Syacium</i> spp.	lefteye flounders	20	0.0	5	1.4
<i>Opsanus beta</i>	gulf toadfish	19	1.3	4	1.1
<i>Seriola dumerili</i>	greater amberjack	19	2.5	7	2.0
<i>Aluterus scriptus</i>	scrawled filefish	17	0.4	5	1.4
<i>Paralichthys squamilentus</i>	broad flounder	17	2.9	11	3.1
<i>Priacanthus arenatus</i>	bigeye	16	1.0	11	3.1
<i>Syngnathus pelagicus</i>	sargassum pipefish	16	0.0	1	0.3
<i>Prionotus scitulus</i>	leopard searobin	15	0.2	2	0.6
<i>Urophycis regia</i>	spotted hake	15	1.0	4	1.1
<i>Syacium micrurum</i>	channel flounder	14	0.4	4	1.1
<i>Ophichthus gomesi</i>	shrimp eel	13	1.6	9	2.6
Pisces	fishes	13	0.1	8	2.3
<i>Etropus cyclosquamus</i>	shelf flounder	12	0.1	7	2.0
<i>Calamus leucosteus</i>	whitebone porgy	11	2.6	3	0.9
<i>Citharichthys cornutus</i>	horned whiff	11	0.0	4	1.1
<i>Sphoeroides spengleri</i>	bandtail puffer	11	0.3	5	1.4
<i>Squatina dumeril</i>	Atlantic angel shark	11	11.4	6	1.7
<i>Synagrops bellus</i>	blackmouth bass	11	0.1	1	0.3
<i>Bathyanthias mexicanus</i>	yellowtail bass	10	0.1	2	0.6
<i>Fistularia petimba</i>	red cornetfish	10	0.3	4	1.1
<i>Pomatomus saltatrix</i>	bluefish	9	1.6	4	1.1
<i>Scorpaena agassizii</i>	longfin scorpionfish	9	0.1	1	0.3
<i>Lampanyctus</i>	lanternfishes	8	0.0	2	0.6
<i>Sphyraena</i>	barracudas	8	0.0	1	0.3
Synodontidae	lizardfishes	8	0.0	1	0.3

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Trinectes maculatus</i>	hogchoker	8	0.1	2	0.6
<i>Alosa chrysochloris</i>	blue herring	7	0.5	1	0.3
<i>Calamus calamus</i>	saucereye porgy	7	1.2	2	0.6
<i>Echiophis punctifer</i>	snapper eel	7	3.0	1	0.3
<i>Menticirrhus littoralis</i>	gulf kingfish	7	0.8	5	1.4
<i>Ogcocephalus</i> spp.	batfishes	7	0.2	1	0.3
<i>Prionotus ophryas</i>	bandtail searobin	7	0.0	3	0.9
<i>Trachinocephalus myops</i>	snakefish	7	0.3	3	0.9
<i>Cyclopsetta fimbriata</i>	spotfin flounder	6	0.7	2	0.6
<i>Epinephelus niveatus</i>	snowy grouper	6	0.7	5	1.4
<i>Gymnothorax kolpos</i>	blacktail moray	6	1.7	4	1.1
<i>Selene vomer</i>	lookdown	6	0.1	5	1.4
<i>Symphurus civitatus</i>	offshore tonguefish	6	0.2	3	0.9
<i>Synodus</i>	lizard fishes	6	0.0	2	0.6
<i>Apogon maculatus</i>	saddletailed cardinalfish	5	0.0	1	0.3
<i>Bembrops anatrostris</i>	longnose duckbill	5	0.2	1	0.3
<i>Decodon puellaris</i>	red hogfish	5	0.2	4	1.1
<i>Opistognathus aurifrons</i>	yellowhead jawfish	5	0.1	2	0.6
<i>Paralichthys</i>	southern flounders	5	0.0	3	0.9
<i>Rhinoptera bonasus</i>	cownose ray	5	6.9	4	1.1
<i>Sphyrna tiburo</i>	bonnethead	5	10.6	4	1.1
<i>Bellator egretta</i>	streamer searobin	4	0.1	1	0.3
<i>Echeneis naucrates</i>	sharksucker	4	1.3	4	1.1
<i>Epinephelus flavolimbatus</i>	yellowedge grouper	4	0.4	4	1.1
<i>Neobythites gillii</i>	cusck-eel	4	0.0	2	0.6
<i>Pontinus longispinis</i>	longspine scorpionfish	4	0.0	1	0.3
<i>Prionotus alatus</i>	spiny searobin	4	0.2	2	0.6
<i>Serraniculus pumilio</i>	pygmy sea bass	4	0.0	1	0.3
<i>Serranus phoebe</i>	tattler	4	0.2	2	0.6
<i>Trachinotus carolinus</i>	Florida pompano	4	0.5	2	0.6

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Achirus lineatus</i>	lined sole	3	0.0	3	0.9
<i>Echiophis intertinctus</i>	spotted spoon-nose eel	3	0.8	1	0.3
<i>Estropus microstomus</i>	smallmouth flounder	3	0.0	1	0.3
<i>Estropus microstomus</i>	smallmouth flounder	3	0.0	1	0.3
<i>Hemanthias aureorubens</i>	streamer bass	3	0.0	1	0.3
<i>Hippocampus erectus</i>	lined seahorse	3	0.0	2	0.6
<i>Lactophrys quadricornis</i>	scrawled cowfish	3	0.5	2	0.6
<i>Lophius americanus</i>	goosefish	3	0.3	2	0.6
<i>Pogonias cromis</i>	black drum	3	15.7	2	0.6
<i>Scorpaena brasiliensis</i>	barbfish	3	0.2	1	0.3
<i>Alectis ciliaris</i>	african pompano	2	0.1	1	0.3
<i>Apogon aurolineatus</i>	bridle cardinalfish	2	0.0	1	0.3
<i>Apogon</i> spp.	cardinalfishes	2	0.0	1	0.3
<i>Carcharhinus acronotus</i>	blacknose shark	2	3.8	2	0.6
<i>Carcharhinus brevipinna</i>	spinner shark	2	2.3	2	0.6
<i>Carcharhinus limbatus</i>	blacktip shark	2	0.3	1	0.3
<i>Chilomycterus</i>	burrfishes	2	0.0	1	0.3
<i>Dasyatis americana</i>	southern stingray	2	9.4	2	0.6
<i>Echiodon dawsoni</i>	chain pearlfish	2	0.0	1	0.3
Gobiesocidae	clingfishes	2	0.0	1	0.3
<i>Gobionellus hastatus</i>	darther gobies	2	0.0	2	0.6
<i>Gymnothorax ocellatus</i>	caribbean ocellated moray	2	0.2	2	0.6
<i>Hirundichthys rondeleti</i>	blackwing flyingfish	2	0.0	1	0.3
Lutjanidae	snappers	2	0.0	1	0.3
<i>Rachycentron canadum</i>	cobia	2	2.1	2	0.6
<i>Saurida caribbaea</i>	smallscale lizardfish	2	0.0	1	0.3
<i>Symphurus parvus</i>	pygmy tonguefish	2	0.0	1	0.3
<i>Symphurus urospilus</i>	spottail tonguefish	2	0.0	1	0.3
<i>Aluterus schoepfi</i>	orange filefish	1	0.1	1	0.3
<i>Carcharhinus obscurus</i>	dusky shark	1	22.5	1	0.3

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Chaetodon aya	bank butterflyfish	1	0.1	1	0.3
Dasyatis say	bluntnose stingray	1	0.5	1	0.3
Echeneis neucratoides	whitefin sharksucker	1	0.0	1	0.3
Gymnothorax saxicola	honeycomb moray	1	0.0	1	0.3
Hemanthias vivanus	red barbier	1	0.0	1	0.3
Lepidocybium flavobrunneum	escolar	1	0.1	1	0.3
Mustelus norrisi	Florida smoothhound	1	3.4	1	0.3
Mycteroperca phenax	scamp	1	0.4	1	0.3
Myliobatis freminvillii	bullnose ray	1	4.5	1	0.3
Narcine brasiliensis	lesser electric ray	1	0.5	1	0.3
Neomerinthe beanorum	rockfishes	1	0.3	1	0.3
Paralichthys albigutta	gulf flounder	1	0.4	1	0.3
Prionotus martis	barred searobin	1	0.0	1	0.3
Raja eglanteria	clearnose skate	1	0.7	1	0.3
Sphoeroides dorsalis	marbled puffer	1	0.0	1	0.3
Sphyrna lewini	scalloped hammerhead	1	1.2	1	0.3
Syngnathus louisianae	chain pipefish	1	0.0	1	0.3
Xyrichtys martinicensis	rosy razorfish	1	0.0	1	0.3
<u>Crustaceans</u>					
Farfantepenaeus aztecus	brown shrimp	86409	1311.0	282	80.1
Trachypenaeus similis	roughback shrimp	31466	128.4	119	33.8
Callinectes similis	lesser blue crab	15789	157.3	206	58.5
Portunus spinicarpus	longspine swimming crab	7265	34.1	83	23.6
Squilla empusa	mantis shrimp	5129	51.6	137	38.9
Trachypenaeus constrictus	roughneck shrimp	3893	12.7	44	12.5
Sicyonia dorsalis	lesser rock shrimp	2763	6.9	65	18.5
Litopenaeus setiferus	white shrimp	2365	106.6	98	27.8
Xiphopenaeus kroyeri	seabob	2314	10.5	17	4.8

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Farfantepenaeus duorarum</i>	pink shrimp	2031	40.6	58	16.5
<i>Squilla chydrea</i>	mantis shrimp	1831	10.4	96	27.3
<i>Portunus gibbesii</i>	iridescent swimming crab	1815	8.2	128	36.4
<i>Solenocera vioscai</i>	humpback shrimp	1684	7.7	46	13.1
<i>Sicyonia brevirostris</i>	brown rock shrimp	1098	10.5	58	16.5
<i>Callinectes sapidus</i>	blue crab	803	129.5	94	26.7
<i>Parapenaeus politus</i>	deepwater rose shrimp	361	0.7	11	3.1
<i>Calappa sulcata</i>	yellow box crab	316	53.5	69	19.6
<i>Portunus spinimanus</i>	blotched swimming crab	294	5.5	41	11.6
<i>Anasimus latus</i>	stilt spider crab	263	1.4	36	10.2
<i>Ovalipes floridanus</i>	Florida lady crab	186	1.1	25	7.1
<i>Raninoides louisianensis</i>	gulf frog crab	174	1.5	22	6.3
<i>Sicyonia burkenroadi</i>	spiny rock shrimp	171	0.2	15	4.3
<i>Arenaeus cribrarius</i>	speckled swimming crab	154	3.8	12	3.4
<i>Stenorhynchus seticornis</i>	yellowline arrow crab	74	0.2	15	4.3
<i>Porcellana sayana</i>	spotted porcelain crab	39	0.0	5	1.4
<i>Paguristes triangulatus</i>	hermit crab	37	0.0	3	0.9
<i>Pseudorhombila quadridentata</i>	flecked squareback crab	37	0.5	10	2.8
<i>Speocarcinus lobatus</i>	gulf squareback crab	33	0.0	2	0.6
<i>Libinia dubia</i>	longnose spider crab	31	0.0	14	4.0
<i>Podochela sidneyi</i>	shortfinger neck crab	28	0.1	11	3.1
<i>Hepatus epheliticus</i>	calico crab	27	1.6	13	3.7
<i>Portunus sayi</i>	sargassum swimming crab	23	0.1	9	2.6
<i>Parthenope granulata</i>	bladetooth elbow crab	22	0.1	7	2.0
<i>Squilla neglecta</i>	mantis shrimp	20	0.2	5	1.4
<i>Iliacantha liodactylus</i>	purse crab	19	0.1	8	2.3
<i>Collodes robustus</i>	spider crab	17	0.0	10	2.8
<i>Leiolambrus nitidus</i>	white elbow crab	17	0.0	9	2.6
<i>Persephona crinita</i>	pink purse crab	17	0.1	12	3.4
<i>Euphosynoplax clausa</i>	craggy bathyal crab	16	0.2	7	2.0

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Libinia emarginata</i>	portly spider crab	15	1.3	5	1.4
<i>Dardanus insignis</i>	red brocade hermit	13	0.1	6	1.7
<i>Pagurus bullisi</i>	hermit crab	12	0.0	3	0.9
<i>Munida forceps</i>	squat lobster	10	0.0	4	1.1
<i>Plesionika longicauda</i>	pandalid shrimp	10	0.0	2	0.6
Diogenidae	left-handed hermit crabs	9	0.0	4	1.1
Leucosiidae	purse crabs	8	0.0	1	0.3
<i>Metoporphaphis calcarata</i>	false arrow crab	8	0.0	5	1.4
<i>Petrochirus diogenes</i>	giant hermit crab	8	1.2	3	0.9
Xanthidae	mud crabs	8	0.0	3	0.9
<i>Lysiosquilla scabricauda</i>	mantis shrimp	7	0.8	1	0.3
<i>Myropsis quinquespinosa</i>	fivespine purse crab	7	0.0	2	0.6
<i>Acanthocarpus alexandri</i>	gladiator box crab	6	0.1	2	0.6
Isopoda	isopods	5	0.0	3	0.9
<i>Stenocionops furcata</i>	furcate crab	5	0.1	4	1.1
Unidentified crustacean	unidentified crustacean	5	0.0	2	0.6
<i>Calappa flammea</i>	flame box crab	4	0.2	2	0.6
<i>Ethusa microphthalma</i>	broadback sumo crab	4	0.0	2	0.6
<i>Menippe adina</i>	gulf stone crab	4	0.0	1	0.3
Mysidae	shrimps	4	0.0	1	0.3
<i>Pagurus</i>	hermits	4	0.7	1	0.3
<i>Lironeca ovalis</i>	isopod	3	0.0	1	0.3
<i>Persephona mediterranea</i>	mottled purse crab	3	0.0	2	0.6
<i>Stenocionops spinimanus</i>	prickly spider crab	3	0.3	3	0.9
<i>Dardanus fucosus</i>	bareye hermit	2	0.0	1	0.3
<i>Glypturus acanthochirus</i>		2	0.0	1	0.3
<i>Myropsis</i>	purse crabs	2	0.0	1	0.3
<i>Paguristes sericeus</i>	blue-eyed hermit	2	0.0	2	0.6
<i>Pagurus pollicaris</i>	flatclaw hermit crab	2	0.0	2	0.6
<i>Penaeopsis serrata</i>	megalops shrimp	2	0.0	1	0.3

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Porcellana spp.	porcelain crabs	2	0.0	1	0.3
Clibanarius vittatus	thinripe hermit crab	1	0.0	1	0.3
Danielum ixbauchac	red sea crab	1	0.0	1	0.3
Latreutes parvulus	sargassum shirmp	1	0.0	1	0.3
Pagurus longicarpus	long-armed hermit crab	1	0.0	1	0.3
Scyllarides nodifer	ridged slipper lobster	1	0.0	1	0.3
Scyllarus chacei	chace slipper lobster	1	0.0	1	0.3
Scyllarus depressus	scaled slipper lobster	1	0.0	1	0.3
<u>Others</u>					
Loligo pleii	arrow squid	6999	82.9	136	38.6
Loligo pealeii	longfin squid	6418	56.2	90	25.6
Amusium papyraceum	paper scallop	5652	34.2	71	20.2
Renilla mulleri	short-stemmed sea pansy	5099	15.6	80	22.7
Bryozoa	moss animals	5078	5.7	8	2.3
Lolliguncula brevis	Atlantic brief squid	2562	27.4	150	42.6
Chrysaora quinquecirrha	sea nettle	1140	32.0	59	16.8
Argopecten gibbus	calico scallop	1125	3.2	8	2.3
Luidia clathrata	sea star	511	5.1	46	13.1
Astropecten duplicatus	spiny beaded sea star	440	0.9	48	13.6
Astropecten cingulatus	starfish	303	4.5	31	8.8
Evola	bivalves	216	0.6	4	1.1
Mnemiopsis mccradyi	comb jelly	212	1.7	8	2.3
Zoobotryon	bryozoans	145	1.4	6	1.7
Polystira albida	white giant turris	140	1.0	14	4.0
Aurelia aurita	moon jellyfish	132	4.2	19	5.4
Pitar cordatus	schwengel's pitar	93	2.1	22	6.3
Anadara baughmani	baughman's ark	77	1.1	14	4.0
Aplysia brasiliana	mottled seahare	69	2.6	9	2.6

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Chione clenchi</i>	clench venus	61	0.7	9	2.6
<i>Macoma brevifrons</i>	short macoma	61	0.4	8	2.3
<i>Calliactis</i> spp.	anemone	59	0.3	8	2.3
<i>Sconsia striata</i>	royal bonnet	37	0.7	7	2.0
<i>Distorsio clathrata</i>	Atlantic distorsio	33	0.3	9	2.6
Cnidaria	coelenterates	29	0.5	9	2.6
<i>Styela plicata</i>	tunicate	27	0.4	6	1.7
<i>Laevicardium mortoni</i>	yellow eggcockle	26	0.4	8	2.3
<i>Ophiolepis elegans</i>	brittle star	24	0.0	5	1.4
<i>Clypeaster ravenelii</i>	cake urchin	23	2.2	6	1.7
<i>Luidia alternata</i>	banded luidia	23	0.8	8	2.3
Hydrozoa	hydralike animals	20	0.1	1	0.3
Unidentified invertebrates	unidentified invertebrate	19	0.3	8	2.3
<i>Beroe ovata</i>	comb jelly	16	0.0	8	2.3
<i>Conus austini</i>	cone shell	15	0.2	5	1.4
<i>Tamoya haplonema</i>	sea wasp	15	0.6	5	1.4
<i>Neverita duplicata</i>	shark eye	14	0.2	8	2.3
<i>Tethyaster grandis</i>	starfish	13	0.7	6	1.7
<i>Periploma fragile</i>	fragile spoonclam	12	0.0	1	0.3
Polychaeta	bristleworms	12	0.3	3	0.9
<i>Nassarius acutus</i>	sharp nassa	11	0.0	1	0.3
Actinidae	sea anemones	8	0.0	8	2.3
<i>Semirossia equalis</i>	greater shining bobtail	8	0.0	2	0.6
<i>Calliactris tricolor</i>	common sea anemone	7	0.0	2	0.6
<i>Pecten raveneli</i>	ravenel's scallop	7	0.0	1	0.3
<i>Stomolophus meleagris</i>	many-mouthed sea jelly	7	2.6	5	1.4
<i>Mellita quinquesperforata</i>	five-slotted sand dollar	5	0.0	4	1.1
Tunicata	sea squirts	5	0.2	2	0.6
<i>Cantharus cancellarius</i>	cancellate cantharus	4	0.0	3	0.9
<i>Rossia bullisi</i>	gulf bobtail squid	4	0.0	2	0.6

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Anadara ovalis	blood ark	3	0.0	2	0.6
Eucrassatella speciosa	beautiful crassatella	3	0.1	1	0.3
Latirus infundibulum	brown-line latirus	3	0.1	1	0.3
Pleuroploca gigantea	horse conch	3	0.1	1	0.3
Andara	bivalves	2	0.0	1	0.3
Anthenoides piercei	starfish	2	0.0	1	0.3
Armina tigrina	tiger armina	2	0.0	1	0.3
Astrophyton cacoticum		2	0.1	1	0.3
Busycon sinistrum	lightning whelk	2	0.0	2	0.6
Ctenophora	comb jellies	2	0.0	1	0.3
Echinaster serpentarius	starfish	2	0.0	2	0.6
Encope aberrans	sand dollar	2	0.2	1	0.3
Laevicardium laevigatum	egg cockle	2	0.2	2	0.6
Loligo spp.	squids	2	0.0	1	0.3
Octopus vulgaris	common Atlantic octopus	2	0.5	2	0.6
Paranthus rapiformis	onion anemone	2	0.0	2	0.6
Sinum perspectivum	white baby-ear	2	0.0	2	0.6
Strombus alatus	Florida fighting conch	2	0.2	1	0.3
Veneridae	bivalves	2	0.0	1	0.3
Asteroporpa annulata	starfish	1	0.0	1	0.3
Atrina serrata	sawtooth penshell	1	0.0	1	0.3
Brachidontes exustus	scorched mussel	1	0.0	1	0.3
Busycon pulleyi	prickly whelk	1	0.1	1	0.3
Cancellaria reticulata	common nutmeg	1	0.0	1	0.3
Caretta caretta	loggerhead turtle	1	16.0	1	0.3
Fasciolaria liliium	banded tulip	1	0.0	1	0.3
Fasciolhunter	mollusks	1	0.1	1	0.3
Geodia gibberosa	sponge	1	0.2	1	0.3
Hyalina	gastropods	1	0.0	1	0.3
Muricanthus fulvescens	giant eastern murex	1	0.0	1	0.3

Table 3. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Nudibranchia	nudibranchs	1	0.0	1	0.3
Phyllorhiza punctata	jellyfish	1	0.3	1	0.3
Porifera	sponges	1	0.0	1	0.3
Thais haemastoma	rocksnail	1	0.0	1	0.3
Tonna galea	giant tun	1	0.4	1	0.3

Table 4a

Statistical Zone 11

Summary of dominant organisms taken in statistical zone 11 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.															
SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	580.9	580.87	4.3	4.28	3	704.5	666.83	6.0	5.47	9	509.8	255.95	7.4	3.33	20
Callinectes similis	41.7	41.74	0.3	0.31	3	123.9	94.46	0.8	0.56	9	905.1	590.64	6.9	4.56	20
Squilla spp	23.5	23.48	0.2	0.16	3	39.9	24.07	0.3	0.16	9	267.6	128.92	2.0	0.98	20
Trachypenaeus constrictus	26.1	26.09	0.0	0.03	3	50.8	34.23	0.2	0.11	9	16.0	14.46	0.1	0.07	20
Trachypenaeus similis	0.0	0.00	0.0	0.00	3	18.7	18.12	0.1	0.06	9	116.2	78.01	0.3	0.20	20
Sicyonia dorsalis	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	9	119.8	117.51	0.2	0.19	20
Stenotomus caprinus	0.0	0.00	0.0	0.00	3	55.0	23.37	0.3	0.15	9	236.1	134.26	3.6	1.47	20
Micropogonias undulatus	1616.5	1616.50	35.6	35.57	3	267.8	212.24	6.0	4.84	9	250.4	100.11	11.0	4.66	20
Peprilus burti	2.6	2.61	0.1	0.12	3	24.1	18.78	0.3	0.23	9	363.5	151.91	15.7	6.38	20
Anchoa hepsetus	27.0	21.93	0.1	0.11	3	163.7	96.48	1.1	0.76	9	392.0	242.43	7.8	4.70	20
Prionotus rubio	99.1	99.13	0.6	0.63	3	298.7	295.42	1.3	1.30	9	186.3	119.65	1.7	1.01	20
Steindachneria argentea	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	20
Centropristis philadelphica	5.2	5.22	0.1	0.07	3	19.7	14.88	0.1	0.07	9	28.5	16.04	0.2	0.12	20
Trichiurus lepturus	2.6	2.61	0.2	0.21	3	0.4	0.37	0.0	0.03	9	88.2	39.45	1.6	0.58	20
Squid spp	16.3	9.06	0.1	0.07	3	141.3	54.74	1.5	0.79	9	71.5	29.53	1.2	0.57	20

Table 4a (continued)

Statistical Zone 11

Summary of dominant organisms taken in statistical zone 11 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.															
SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	481.9	265.58	6.6	3.64	9	330.3	169.59	8.9	4.45	4	366.4	274.24	9.1	4.58	3
Callinectes similis	661.7	547.49	3.7	2.98	9	335.4	166.73	3.9	1.67	4	230.2	222.73	1.7	1.60	3
Squilla spp	132.8	113.35	1.0	0.77	9	29.2	22.32	0.2	0.17	4	222.6	132.30	1.5	0.96	3
Trachypenaeus constrictus	81.8	81.78	0.2	0.23	9	0.0	0.00	0.0	0.00	4	865.9	865.93	1.5	1.46	3
Trachypenaeus similis	119.3	75.60	0.4	0.27	9	4.5	4.50	0.0	0.01	4	70.0	70.00	0.1	0.14	3
Sicyonia dorsalis	72.7	69.00	0.1	0.13	9	1.9	1.91	0.0	0.01	4	5.2	5.19	0.0	0.01	3
Stenotomus caprinus	203.5	84.07	8.2	4.59	9	306.7	156.65	14.5	7.15	4	836.1	514.59	46.2	28.43	3
Micropogonias undulatus	0.2	0.23	0.0	0.01	9	17.3	17.25	1.9	1.87	4	270.4	267.29	26.2	24.87	3
Peprilus burti	38.9	28.42	3.3	2.73	9	137.7	79.71	7.0	4.16	4	38.3	32.18	1.3	1.18	3
Anchoa hepsetus	0.7	0.67	0.0	0.01	9	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	3
Prionotus rubio	47.5	44.60	1.2	0.84	9	179.2	71.54	13.9	4.79	4	54.8	4.21	4.0	1.81	3
Steindachneria argentea	0.0	0.00	0.0	0.00	9	4.5	4.50	0.0	0.04	4	1504.3	1446.80	5.3	5.05	3
Centropristis philadelphica	67.9	35.67	0.9	0.63	9	98.8	40.16	12.1	7.52	4	139.5	68.70	7.6	5.22	3
Trichiurus lepturus	3.3	2.67	0.4	0.43	9	3.6	2.62	0.1	0.12	4	0.0	0.00	0.0	0.00	3
Squid spp	51.3	26.58	0.3	0.12	9	105.2	39.22	1.2	0.42	4	130.4	59.79	1.8	1.28	3

Table 4b
Statistical Zone 11

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	52.2	45.37	3	23.9	13.97	9	90.3	21.79	20	0.0	0	0	101.0	20.15	4	157.0	48.36	3
Total finfish	43.9	37.44	3	13.5	7.38	9	64.9	16.47	20	0.0	0	0	83.4	16.11	4	135.0	51.87	3
Total crustacean	7.9	7.91	3	8.8	6.83	9	23.9	12.53	20	0.0	0	0	16.6	5.51	4	17.6	8.92	3
Total other	0.4	0.21	3	1.6	0.79	9	1.4	0.56	20	0.0	0	0	1.4	0.37	4	4.4	1.58	3
Surface temperature	29.4	0.13	3	28.7	0.32	9	28.8	0.15	21	0.0	0	0	29.0	0.25	5	29.1	0.51	4
Midwater temperature	28.7	0.43	3	26.0	0.97	9	23.1	0.44	21	0.0	0	0	22.7	0.36	5	21.3	1.24	4
Bottom temperature	27.5	1.04	3	25.6	0.53	9	22.8	0.33	21	0.0	0	0	21.0	0.27	5	18.7	1.75	4
Surface salinity	31.3	0.52	3	30.9	0.6	9	32.9	0.2	21	0.0	0	0	33.0	0.5	5	34.1	0.63	4
Midwater salinity	32.0	0.44	3	33.6	0.61	9	35.9	0.14	21	0.0	0	0	36.4	0.02	5	36.5	0.04	4
Bottom salinity	32.7	0.86	3	34.0	0.51	9	35.9	0.16	21	0.0	0	0	36.4	0.02	5	36.3	0.17	4
Surface chlorophyll	0.0	0	1	0.0	0	2	0.0	0	5	0.0	0	0	0.0	0	4	0.0	0	4
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	6.5	0.24	3	6.4	0.08	9	6.6	0.11	21	0.0	0	0	7.5	0.2	5	7.1	0.16	4
Midwater oxygen	6.4	0	3	6.0	0.17	9	5.6	0.19	21	0.0	0	0	6.1	0.24	5	5.8	0.55	4
Bottom oxygen	4.9	1.09	3	5.4	0.65	9	5.4	0.22	21	0.0	0	0	5.0	0.23	5	4.6	0.2	4

Table 5a
 Statistical Zone 13

Summary of dominant organisms taken in statistical zone 13 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths between 6-10 fm or greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	6.5	6.52	0.0	0.03	2	0.0	0.00	0.0	0.00	0	985.2	461.30	12.6	5.76	6
Callinectes similis	38.2	11.33	0.3	0.03	2	0.0	0.00	0.0	0.00	0	470.7	207.93	3.9	1.88	6
Squilla spp	2.6	2.61	0.0	0.01	2	0.0	0.00	0.0	0.00	0	453.7	182.90	3.1	1.20	6
Trachypenaeus similis	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	650.7	296.79	2.3	1.00	6
Parapenaeus politus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	46.3	33.27	0.1	0.03	6
Sicyonia dorsalis	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	10.7	7.84	0.0	0.01	6
Prionotus rubio	1.3	1.30	0.0	0.02	2	0.0	0.00	0.0	0.00	0	2107.6	736.53	15.3	5.18	6
Micropogonias undulatus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	693.9	349.83	24.9	14.42	6
Trichiurus lepturus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	457.7	200.54	3.9	2.19	6
Serranus atrobranchus	1.3	1.30	0.0	0.01	2	0.0	0.00	0.0	0.00	0	7.4	3.70	0.0	0.01	6
Centropristis philadelphica	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	83.8	36.89	0.9	0.57	6
Saurida brasiliensis	1.0	1.03	0.0	0.00	2	0.0	0.00	0.0	0.00	0	0.7	0.67	0.0	0.00	6
Cynoscion arenarius	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	117.6	38.34	4.0	2.24	6
Cynoscion nothus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0	102.1	55.07	1.8	1.02	6
Squid spp	56.1	56.09	0.4	0.37	2	0.0	0.00	0.0	0.00	0	41.1	15.84	0.3	0.12	6

Table 5a (continued)

Statistical Zone 13

Summary of dominant organisms taken in statistical zone 13 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths between 6-10 fm or greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	1519.6	0.00	27.6	0.00	1	1033.6	158.35	20.0	5.14	2	0.0	0.00	0.0	0.00	0
Callinectes similis	564.0	0.00	7.3	0.00	1	617.0	17.00	7.2	1.08	2	0.0	0.00	0.0	0.00	0
Squilla spp	158.2	0.00	2.2	0.00	1	197.5	150.47	3.0	2.44	2	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0
Parapenaeus politus	6.5	0.00	0.0	0.00	1	144.9	126.88	0.3	0.27	2	0.0	0.00	0.0	0.00	0
Sicyonia dorsalis	3.3	0.00	0.0	0.00	1	147.1	147.06	0.5	0.52	2	0.0	0.00	0.0	0.00	0
Prionotus rubio	148.4	0.00	2.5	0.00	1	85.1	50.94	4.1	0.02	2	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	835.6	0.00	31.4	0.00	1	209.9	198.12	10.5	9.45	2	0.0	0.00	0.0	0.00	0
Trichiurus lepturus	20.7	0.00	0.2	0.00	1	452.8	424.82	7.5	6.73	2	0.0	0.00	0.0	0.00	0
Serranus atrobranchus	116.7	0.00	0.5	0.00	1	211.4	66.65	2.6	0.51	2	0.0	0.00	0.0	0.00	0
Centropristis philadelphica	48.0	0.00	0.8	0.00	1	113.6	47.59	6.0	1.13	2	0.0	0.00	0.0	0.00	0
Saurida brasiliensis	6.5	0.00	0.0	0.00	1	220.8	136.82	0.9	0.46	2	0.0	0.00	0.0	0.00	0
Cynoscion arenarius	0.0	0.00	0.0	0.00	1	2.9	2.94	0.4	0.43	2	0.0	0.00	0.0	0.00	0
Cynoscion nothus	17.5	0.00	1.3	0.00	1	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	0
Squid spp	3.3	0.00	0.1	0.00	1	54.7	54.71	0.5	0.52	2	0.0	0.00	0.0	0.00	0

Table 5b
 Statistical Zone 13

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths between 6-10 fm or greater than 40 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	1.3	0.84	2	0.0	0	0	87.7	26.97	6	0.0	0	0	68.8	8.96	2	0.0	0	0	
Total finfish	0.5	0.29	2	0.0	0	0	61.2	23.28	6	0.0	0	0	36.4	0.99	2	0.0	0	0	
Total crustacean	0.3	0.08	2	0.0	0	0	26.1	9.36	6	0.0	0	0	31.8	8.55	2	0.0	0	0	
Total other	0.4	0.39	2	0.0	0	0	0.5	0.15	6	0.0	0	0	0.6	0.59	2	0.0	0	0	
Surface temperature	31.2	0.09	2	31.4	0	1	31.4	0.2	6	0.0	0	0	30.5	0.1	2	0.0	0	0	
Midwater temperature	30.3	0.79	2	29.6	0	1	29.3	0.29	6	0.0	0	0	25.6	0.2	2	0.0	0	0	
Bottom temperature	28.4	0.07	2	28.9	0	1	26.4	0.57	6	0.0	0	0	21.2	0.19	2	0.0	0	0	
Surface salinity	24.6	0.94	2	26.0	0	1	25.3	0.41	6	0.0	0	0	32.1	0.98	2	0.0	0	0	
Midwater salinity	29.6	3.16	2	34.3	0	1	35.4	0.17	6	0.0	0	0	36.4	0.01	2	0.0	0	0	
Bottom salinity	35.3	0.22	2	35.4	0	1	36.1	0.03	6	0.0	0	0	36.4	0	2	0.0	0	0	
Surface chlorophyll	0.0	0	2	0.0	0	1	0.0	0	6	0.0	0	0	0.0	0	2	0.0	0	0	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	7.4	0.6	2	8.6	0	1	8.8	0.21	6	0.0	0	0	6.7	0	2	0.0	0	0	
Midwater oxygen	5.2	2.65	2	4.9	0	1	5.3	0.72	6	0.0	0	0	7.0	0	2	0.0	0	0	
Bottom oxygen	0.9	0.4	2	3.3	0	1	3.2	0.86	6	0.0	0	0	3.5	0.95	2	0.0	0	0	

Table 6a
 Statistical Zone 14

Summary of dominant organisms taken in statistical zone 14 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	236.5	221.18	1.6	1.46	4	252.2	156.24	1.4	0.95	5	390.5	191.98	4.6	2.30	9
Callinectes similis	2.9	2.86	0.0	0.01	4	5.8	5.85	0.1	0.08	5	45.9	22.17	0.7	0.29	9
Litopenaeus setiferus	135.1	61.41	5.4	2.13	4	10.2	10.15	0.4	0.45	5	14.7	8.91	0.6	0.39	9
Portunus gibbesii	13.8	12.58	0.0	0.04	4	4.8	3.50	0.0	0.02	5	39.6	18.07	0.2	0.09	9
Squilla spp	0.0	0.00	0.0	0.00	4	6.0	4.65	0.0	0.02	5	17.6	14.05	0.2	0.12	9
Portunus spinicarpus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	9
Micropogonias undulatus	1591.1	875.94	32.6	17.76	4	481.1	375.55	15.6	12.12	5	2257.0	966.40	94.6	42.22	9
Prionotus rubio	7.1	7.14	0.0	0.04	4	141.5	136.56	1.8	1.74	5	226.0	132.38	3.4	2.07	9
Trichiurus lepturus	5.6	5.63	0.4	0.44	4	10.6	5.54	0.1	0.03	5	185.3	106.34	3.3	2.36	9
Harengula jaguana	1.5	1.50	0.1	0.08	4	0.0	0.00	0.0	0.00	5	156.8	94.35	7.1	4.18	9
Leiostomus xanthurus	39.4	26.44	1.4	0.87	4	0.0	0.00	0.0	0.00	5	141.7	134.52	12.6	12.07	9
Peprilus burti	0.0	0.00	0.0	0.00	4	3.1	2.38	0.1	0.11	5	50.1	26.51	7.0	5.10	9
Chloroscombrus chrysurus	48.4	46.40	1.6	1.55	4	28.1	15.07	1.5	0.80	5	122.4	62.22	5.6	2.76	9
Stenotomus caprinus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	5	28.6	15.05	0.5	0.31	9
Squid spp	61.7	55.61	0.7	0.64	4	38.8	34.76	0.2	0.17	5	18.9	8.08	0.1	0.04	9

Table 6a (continued)

Statistical Zone 14

Summary of dominant organisms taken in statistical zone 14 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.															
SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	426.3	60.27	7.8	1.67	2	458.0	282.00	9.6	6.53	2	429.3	141.32	12.5	2.95	3
Callinectes similis	22.0	10.00	0.3	0.09	2	5.0	5.00	0.1	0.11	2	0.7	0.67	0.0	0.01	3
Litopenaeus setiferus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	3
Portunus gibbesii	2.2	2.18	0.0	0.01	2	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	3
Squilla spp	3.8	3.82	0.1	0.10	2	7.0	7.00	0.1	0.06	2	4.0	4.00	0.1	0.07	3
Portunus spinicarpus	0.0	0.00	0.0	0.00	2	29.0	29.00	0.1	0.13	2	22.0	11.02	0.2	0.10	3
Micropogonias undulatus	1781.4	1232.60	85.9	55.94	2	210.0	88.00	16.1	7.09	2	318.6	190.52	20.6	11.80	3
Prionotus rubio	67.6	67.64	2.5	2.46	2	12.0	8.00	0.7	0.57	2	18.6	10.94	0.9	0.52	3
Trichiurus lepturus	578.0	110.00	12.3	3.96	2	46.0	46.00	3.0	3.02	2	22.0	20.96	1.8	1.70	3
Harengula jaguana	415.7	338.27	19.9	16.05	2	0.0	0.00	0.0	0.00	2	10.4	7.59	0.6	0.42	3
Leiostomus xanthurus	81.0	81.00	6.6	6.63	2	0.0	0.00	0.0	0.00	2	9.3	5.81	0.9	0.61	3
Peprilus burti	237.3	182.73	16.6	12.62	2	110.0	106.00	8.9	8.67	2	37.4	36.45	3.2	3.12	3
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	2	2.0	2.00	0.1	0.08	2	0.0	0.00	0.0	0.00	3
Stenotomus caprinus	52.1	1.91	2.0	0.04	2	126.0	22.00	5.8	1.49	2	152.9	66.62	7.0	2.36	3
Squid spp	2.2	2.18	0.0	0.01	2	3.0	3.00	0.0	0.02	2	26.5	26.45	0.2	0.21	3

Table 6b
 Statistical Zone 14

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	53.5	18.59	4	25.0	15.69	5	162.0	58.59	9	0.0	0	0	63.2	9.8	2	77.2	13.8	3
Total finfish	44.7	17.36	4	21.5	14.39	5	154.0	57.96	9	0.0	0	0	52.2	2	2	62.2	12.83	3
Total crustacean	7.0	2.57	4	3.2	1.49	5	7.7	2.85	9	0.0	0	0	10.3	7.1	2	13.4	2.49	3
Total other	1.8	0.99	4	0.2	0.19	5	0.2	0.06	9	0.0	0	0	0.7	0.7	2	1.6	0.32	3
Surface temperature	30.1	0.11	4	30.3	1.27	6	29.4	0.8	11	0.0	0	0	29.8	0.02	2	29.9	0.16	4
Midwater temperature	29.9	0.14	4	29.0	0.98	6	27.5	0.59	11	0.0	0	0	26.1	0.15	2	24.9	0.75	4
Bottom temperature	30.1	0.19	4	27.8	0.78	6	25.7	0.43	11	0.0	0	0	21.2	0.02	2	19.8	0.3	4
Surface salinity	23.9	0.93	4	29.8	0.66	6	31.2	0.71	11	0.0	0	0	35.7	0.01	2	35.4	0.13	4
Midwater salinity	23.9	0.87	4	34.4	0.17	6	35.6	0.15	11	0.0	0	0	36.2	0.02	2	36.4	0.02	4
Bottom salinity	24.6	0.68	4	35.5	0.14	6	36.2	0.05	11	0.0	0	0	36.4	0	2	36.5	0.02	4
Surface chlorophyll	0.0	0	0	0.0	0	6	0.0	0	11	0.0	0	0	0.0	0	2	0.0	0	4
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	5.3	0.03	4	7.9	0.4	6	6.8	0.29	11	0.0	0	0	6.5	0	2	6.4	0.02	4
Midwater oxygen	5.3	0.07	4	6.2	0.33	6	5.7	0.31	11	0.0	0	0	7.0	0	2	6.9	0.04	4
Bottom oxygen	5.1	0.13	4	3.8	0.8	6	3.4	0.49	11	0.0	0	0	5.0	0	2	4.5	0.19	4

Table 7a
 Statistical Zone 15

Summary of dominant organisms taken in statistical zone 15 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	68.0	34.18	0.6	0.28	3	42.2	42.22	0.3	0.35	2	786.0	336.02	12.7	5.32	7
Xiphopenaeus kroyeri	866.0	866.00	2.9	2.94	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	7
Trachypenaeus similis	2.0	2.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	145.1	81.50	1.0	0.58	7
Callinectes similis	2.0	2.00	0.0	0.02	3	1.1	1.11	0.0	0.00	2	79.5	37.87	0.9	0.40	7
Squilla spp	1.3	1.33	0.0	0.00	3	1.2	1.20	0.0	0.01	2	48.8	24.38	0.5	0.28	7
Portunus gibbesii	32.0	32.00	0.1	0.14	3	30.8	9.20	0.1	0.03	2	25.2	9.64	0.1	0.04	7
Micropogonias undulatus	602.5	476.85	9.3	6.36	3	1.1	1.11	0.0	0.02	2	1740.0	950.81	58.8	26.27	7
Stenotomus caprinus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	19.1	5.90	0.4	0.15	7
Chloroscombrus chrysurus	208.2	185.21	6.2	5.65	3	66.3	47.07	2.7	2.00	2	90.7	40.30	3.5	1.52	7
Anchoa hepsetus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	165.8	119.07	1.6	1.04	7
Leiostomus xanthurus	36.0	28.43	1.9	1.67	3	0.0	0.00	0.0	0.00	2	46.8	34.41	3.5	2.60	7
Cynoscion nothus	31.4	14.53	1.0	0.80	3	1.2	1.20	0.1	0.06	2	68.5	22.47	4.1	1.37	7
Stellifer lanceolatus	178.7	178.67	1.1	1.09	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	7
Serranus atrobranchus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	50.2	36.19	0.2	0.17	7
Squid spp	53.3	40.16	0.2	0.13	3	6.7	6.67	0.0	0.05	2	17.0	11.37	0.2	0.09	7

Table 7a (continued)

Statistical Zone 15

Summary of dominant organisms taken in statistical zone 14 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	740.0	0.00	16.4	0.00	1	125.6	0.00	3.8	0.00	1	0.0	0.00	0.0	0.00	0
Xiphopenaeus kroyeri	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Callinectes similis	94.0	0.00	0.9	0.00	1	8.9	0.00	0.2	0.00	1	0.0	0.00	0.0	0.00	0
Squilla spp	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Portunus gibbesii	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	206.0	0.00	13.5	0.00	1	77.8	0.00	6.0	0.00	1	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	1584.0	0.00	60.8	0.00	1	518.9	0.00	25.0	0.00	1	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Anchoa hepsetus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Leiostomus xanthurus	242.0	0.00	22.6	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Cynoscion nothus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Stellifer lanceolatus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Serranus atrobranchus	0.0	0.00	0.0	0.00	1	8.9	0.00	0.2	0.00	1	0.0	0.00	0.0	0.00	0
Squid spp	10.0	0.00	0.1	0.00	1	82.2	0.00	0.4	0.00	1	0.0	0.00	0.0	0.00	0

Table 7b
 Statistical Zone 15

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 40 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	29.2	8.72	3	4.5	3.52	2	101.0	25.69	7	0.0	0	0	54.8	0	1	0.0	0	0	
Total finfish	24.2	7.89	3	2.8	2.08	2	83.7	26.44	7	0.0	0	0	49.3	0	1	0.0	0	0	
Total crustacean	4.8	2.96	3	0.6	0.32	2	16.5	6.23	7	0.0	0	0	4.0	0	1	0.0	0	0	
Total other	0.3	0.18	3	1.1	1.11	2	0.4	0.18	7	0.0	0	0	1.3	0	1	0.0	0	0	
Surface temperature	30.2	0.17	3	30.7	0.24	2	30.3	0.08	7	0.0	0	0	29.7	0	1	29.1	0	1	
Midwater temperature	30.0	0.23	3	30.2	0	2	28.9	0.47	7	0.0	0	0	23.8	0	1	23.2	0	1	
Bottom temperature	29.6	0.41	3	28.2	0.4	2	25.5	0.34	7	0.0	0	0	20.8	0	1	19.7	0	1	
Surface salinity	26.7	4.45	3	29.5	0.88	2	32.3	0.45	7	0.0	0	0	35.1	0	1	35.0	0	1	
Midwater salinity	27.0	4.48	3	30.0	1.34	2	34.8	0.43	7	0.0	0	0	36.4	0	1	36.3	0	1	
Bottom salinity	28.2	5.01	3	34.8	0.19	2	36.1	0.08	7	0.0	0	0	35.4	0	1	36.5	0	1	
Surface chlorophyll	0.0	0	1	0.0	0	2	0.0	0	7	0.0	0	0	0.0	0	1	0.0	0	1	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	7.8	1.2	3	7.0	0.2	2	6.7	0.07	7	0.0	0	0	6.3	0	1	6.3	0	1	
Midwater oxygen	6.3	0.38	3	6.3	0.45	2	6.1	0.2	7	0.0	0	0	6.8	0	1	6.7	0	1	
Bottom oxygen	5.5	1.16	3	0.9	0.3	2	4.0	0.55	7	0.0	0	0	4.5	0	1	4.0	0	1	

Table 8a

Statistical Zone 16

Summary of dominant organisms taken in statistical zone 16 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	32.7	25.97	0.3	0.21	3	703.1	465.25	7.5	5.23	2	461.2	115.90	7.4	1.88	14
Trachypenaeus similis	2.0	2.00	0.0	0.00	3	936.0	84.00	2.3	1.19	2	80.9	33.04	0.5	0.24	14
Callinectes similis	4.5	2.93	0.0	0.01	3	96.7	63.99	0.4	0.35	2	75.0	52.59	0.8	0.57	14
Squilla spp	23.6	16.24	0.1	0.06	3	47.3	34.17	0.5	0.48	2	21.3	6.18	0.2	0.08	14
Litopenaeus setiferus	25.3	17.95	0.9	0.63	3	29.2	3.51	1.1	0.05	2	25.0	9.22	1.1	0.39	14
Portunus gibbesii	2.0	2.00	0.0	0.01	3	27.4	24.08	0.1	0.07	2	7.1	2.74	0.0	0.01	14
Micropogonias undulatus	1040.5	567.53	15.9	7.98	3	6221.8	4779.60	149.9	127.10	2	2113.1	621.32	68.9	17.92	14
Chloroscombrus chrysurus	1870.4	1861.20	56.9	56.68	3	101.5	50.10	2.6	1.15	2	422.6	145.35	11.4	3.92	14
Stenotomus caprinus	0.0	0.00	0.0	0.00	3	50.4	50.36	0.3	0.26	2	260.0	89.16	9.4	3.37	14
Peprilus burti	0.7	0.67	0.0	0.01	3	0.0	0.00	0.0	0.00	2	129.6	56.58	8.6	3.74	14
Cynoscion nothus	24.2	13.86	0.2	0.09	3	15.0	15.00	0.5	0.47	2	133.2	38.86	6.7	1.89	14
Trichiurus lepturus	1.3	0.63	0.1	0.03	3	0.0	0.00	0.0	0.00	2	85.9	38.94	3.3	1.58	14
Leiostomus xanthurus	7.3	7.33	0.3	0.33	3	21.5	8.45	1.0	0.87	2	87.3	18.75	7.0	1.53	14
Anchoa hepsetus	0.7	0.67	0.0	0.01	3	5.4	5.36	0.0	0.04	2	57.5	26.36	0.9	0.45	14
Squid															

Table 8a (continued)

Statistical Zone 16

Summary of dominant organisms taken in statistical zone 16 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.															
SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	220.1	185.59	4.3	3.62	2	91.5	0.00	3.7	0.00	1	93.7	21.96	5.0	1.21	2
Trachypenaeus similis	2.6	2.61	0.0	0.02	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Callinectes similis	4.5	0.69	0.1	0.01	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Squilla spp	1.3	1.30	0.0	0.01	2	4.5	0.00	0.1	0.00	1	1.5	1.46	0.0	0.02	2
Litopenaeus setiferus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Portunus gibbesii	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Micropogonias undulatus	115.4	111.56	6.3	6.05	2	4.5	0.00	0.6	0.00	1	4.4	4.36	0.6	0.56	2
Chloroscombrus chrysurus	16.7	11.43	1.0	0.65	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Stenotomus caprinus	341.2	288.83	14.0	11.64	2	373.5	0.00	16.9	0.00	1	154.5	5.03	8.0	0.57	2
Peprilus burti	14.2	4.02	1.2	0.30	2	529.5	0.00	38.4	0.00	1	47.8	15.10	4.2	1.37	2
Cynoscion nothus	2.6	2.61	0.2	0.22	2	0.0	0.00	0.0	0.00	1	1.1	1.09	0.2	0.18	2
Trichiurus lepturus	9.7	0.75	0.2	0.23	2	0.0	0.00	0.0	0.00	1	4.7	1.81	0.6	0.28	2
Leiostomus xanthurus	1.3	1.30	0.1	0.12	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Anchoa hepsetus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Squid spp	29.7	4.19	0.1	0.05	2	0.0	0.00	0.0	0.00	1	215.1	215.12	1.0	0.96	2

Table 8b
Statistical Zone 16

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	83.1	52.51	3	176.0	126.5	2	141.0	19.3	14	0.0	0	0	88.5	0	1	46.1	3.53	2
Total finfish	80.9	53.42	3	162.0	131.7	2	129.0	18.84	14	0.0	0	0	79.5	0	1	38.4	3.46	2
Total crustacean	2.0	1.22	3	13.9	5.15	2	11.2	2.35	14	0.0	0	0	5.4	0	1	5.1	1.26	2
Total other	0.2	0.12	3	0.1	0.11	2	0.5	0.3	14	0.0	0	0	3.5	0	1	2.7	1.14	2
Surface temperature	30.0	0.13	3	30.3	0.51	2	30.0	0.06	13	0.0	0	0	29.4	0.03	2	29.1	0.03	3
Midwater temperature	29.7	0.24	3	30.3	0.63	2	28.8	0.27	13	0.0	0	0	25.6	0.1	2	24.2	0.43	3
Bottom temperature	29.6	0.3	3	28.1	1.25	2	26.0	0.21	13	0.0	0	0	20.5	0.27	2	19.5	0.18	3
Surface salinity	29.1	1.23	3	28.7	2.19	2	31.7	0.33	13	0.0	0	0	34.8	0.45	2	35.0	0.45	3
Midwater salinity	30.0	0.38	3	31.1	2.48	2	34.5	0.28	13	0.0	0	0	36.3	0	2	36.4	0.07	3
Bottom salinity	30.6	0.25	3	34.1	1.38	2	35.5	0.33	13	0.0	0	0	36.4	0.05	2	36.5	0	3
Surface chlorophyll	0.0	0	1	0.0	0	2	0.0	0	12	0.0	0	0	0.0	0	2	0.0	0	3
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	6.6	0.55	3	7.4	0.4	2	6.7	0.06	13	0.0	0	0	6.3	0.1	2	6.4	0.06	3
Midwater oxygen	5.4	0.72	3	6.9	0.5	2	5.7	0.3	13	0.0	0	0	6.6	0	2	6.8	0	3
Bottom oxygen	4.9	1.05	3	2.6	0.1	2	4.6	0.42	13	0.0	0	0	4.5	0.55	2	4.1	0.07	3

Table 9a
 Statistical Zone 17

Summary of dominant organisms taken in statistical zone 17 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	80.7	24.50	0.7	0.22	16	204.8	78.56	2.4	0.84	12	389.4	188.54	7.0	3.71	9
Trachypenaeus similis	0.0	0.00	0.0	0.00	16	55.2	37.94	0.2	0.14	12	243.0	165.33	1.4	0.96	9
Portunus spinicarpus	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	0.00	12	3.6	1.48	0.0	0.00	9
Xiphopenaeus kroyeri	210.4	129.93	1.3	0.88	16	0.0	0.00	0.0	0.00	12	0.0	0.00	0.0	0.00	9
Callinectes similis	1.0	0.69	0.0	0.00	16	19.0	9.02	0.2	0.07	12	18.3	7.66	0.2	0.09	9
Squilla spp	2.0	1.18	0.0	0.01	16	19.8	8.34	0.2	0.08	12	9.3	5.63	0.1	0.06	9
Micropogonias undulatus	786.6	163.49	11.6	2.48	16	1782.6	590.29	45.5	15.95	12	128.3	115.86	7.6	6.84	9
Chloroscombrus chrysurus	107.1	34.07	2.2	0.72	16	1767.7	594.11	40.5	13.52	12	326.2	68.23	14.4	2.85	9
Stenotomus caprinus	0.0	0.00	0.0	0.00	16	65.9	29.73	0.5	0.24	12	1503.5	415.52	36.5	7.89	9
Saurida brasiliensis	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	0.00	12	35.1	12.69	0.1	0.05	9
Trachurus lathami	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	0.00	12	76.7	47.83	1.6	1.01	9
Leiostomus xanthurus	5.0	3.00	0.1	0.07	16	106.6	39.38	7.7	3.19	12	1.0	0.97	0.1	0.11	9
Serranus atrobranchus	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	0.00	12	4.0	2.87	0.0	0.01	9
Cynoscion nothus	40.5	20.48	1.3	0.70	16	117.8	37.31	6.6	2.47	12	7.9	5.63	0.5	0.34	9
Squid spp	41.0	21.62	0.5	0.16	16	61.4	13.57	0.5	0.11	12	77.4	16.29	0.6	0.14	9

Table 9a (continued)

Statistical Zone 17

Summary of dominant organisms taken in statistical zone 17 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	647.4	135.56	13.1	3.03	7	231.1	22.20	7.3	1.08	9	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	142.2	75.68	1.0	0.56	7	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Portunus spinicarpus	226.3	99.30	0.6	0.27	7	70.8	39.54	0.2	0.13	9	0.0	0.00	0.0	0.00	0
Xiphopenaeus kroyeri	0.0	0.00	0.0	0.00	7	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Callinectes similis	18.5	6.20	0.4	0.14	7	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Squilla spp	28.8	13.13	0.1	0.05	7	0.5	0.32	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	185.3	30.56	12.5	2.03	7	485.7	230.35	37.7	17.84	9	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	25.6	25.55	1.5	1.47	7	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	388.9	132.37	16.9	5.57	7	266.6	33.03	12.2	1.59	9	0.0	0.00	0.0	0.00	0
Saurida brasiliensis	449.4	308.15	1.6	0.98	7	213.7	74.81	0.9	0.28	9	0.0	0.00	0.0	0.00	0
Trachurus lathami	144.1	80.05	3.1	1.75	7	13.6	7.89	0.3	0.22	9	0.0	0.00	0.0	0.00	0
Leiostomus xanthurus	2.6	1.23	0.3	0.13	7	23.0	13.77	2.4	1.47	9	0.0	0.00	0.0	0.00	0
Serranus atrobranchus	223.3	114.06	0.8	0.34	7	25.0	11.91	0.2	0.03	9	0.0	0.00	0.0	0.00	0
Cynoscion nothus	0.0	0.00	0.0	0.00	7	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	0
Squid spp	222.2	150.45	1.3	0.74	7	178.5	112.66	0.8	0.43	9	0.0	0.00	0.0	0.00	0

Table 9b
 Statistical Zone 17

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 40 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	27.3	2.99	16	126.0	23.66	12	88.2	15.42	9	0.0	0	0	84.8	18.34	9	0.0	0	0	
Total finfish	22.1	3.13	16	116.0	22.58	12	77.6	12.41	9	0.0	0	0	74.1	18.35	9	0.0	0	0	
Total crustacean	3.2	1.01	15	8.9	3.54	12	10.0	4.86	9	0.0	0	0	8.9	1.27	9	0.0	0	0	
Total other	2.0	0.7	16	0.8	0.27	12	0.7	0.15	9	0.0	0	0	1.8	0.46	9	0.0	0	0	
Surface temperature	29.3	0.21	16	29.3	0.16	12	28.9	0.14	8	0.0	0	0	28.4	0.11	4	28.5	0	1	
Midwater temperature	28.5	0.19	16	29.0	0.09	12	28.8	0.06	8	0.0	0	0	25.2	0.8	4	22.7	0	1	
Bottom temperature	28.4	0.2	16	28.5	0.2	12	26.2	0.4	8	0.0	0	0	20.3	0.19	4	18.7	0	1	
Surface salinity	26.7	0.5	16	30.0	0.76	12	33.0	0.37	8	0.0	0	0	34.5	0.38	4	33.5	0	1	
Midwater salinity	28.5	0.55	16	31.5	0.68	12	33.8	0.26	8	0.0	0	0	36.2	0.13	4	36.3	0	1	
Bottom salinity	29.3	0.59	16	32.2	0.54	12	35.7	0.13	8	0.0	0	0	36.4	0.03	4	36.4	0	1	
Surface chlorophyll	0.0	0	1	0.0	0	9	0.0	0	7	0.0	0	0	0.0	0	4	0.0	0	1	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	6.5	0.24	16	7.0	0.29	12	6.3	0.06	8	0.0	0	0	6.4	0.05	4	6.4	0	1	
Midwater oxygen	5.5	0.28	16	6.3	0.17	12	6.3	0.1	8	0.0	0	0	6.5	0.06	4	6.6	0	1	
Bottom oxygen	4.8	0.27	16	4.4	0.44	12	5.2	0.43	8	0.0	0	0	4.3	0.23	4	4.1	0	1	

Table 10a
 Statistical Zone 18

Summary of dominant organisms taken in statistical zone 18 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	4.3	2.39	0.0	0.01	12	319.6	311.59	2.2	2.14	11	1477.5	745.79	21.6	13.38	3
Trachypenaeus similis	0.5	0.50	0.0	0.00	12	1.1	0.73	0.0	0.00	11	1532.3	1144.30	6.5	4.69	3
Litopenaeus setiferus	135.3	117.77	6.1	5.44	12	5.4	3.81	0.2	0.17	11	0.0	0.00	0.0	0.00	3
Callinectes similis	1.5	0.78	0.0	0.00	12	14.3	9.12	0.1	0.06	11	112.2	94.55	1.2	0.96	3
Squilla spp	2.0	2.03	0.0	0.02	12	14.6	11.77	0.1	0.13	11	69.6	36.53	0.7	0.38	3
Sicyonia dorsalis	0.0	0.00	0.0	0.00	12	0.0	0.00	0.0	0.00	11	79.0	38.45	0.3	0.15	3
Stenotomus caprinus	0.0	0.00	0.0	0.00	12	314.9	222.52	2.8	1.83	11	1469.0	1144.50	12.9	6.38	3
Chloroscombrus chrysurus	103.0	32.27	1.5	0.45	12	2055.0	795.40	49.7	20.51	11	623.1	395.48	17.9	9.79	3
Micropogonias undulatus	724.9	597.85	14.9	13.23	12	23.4	17.94	0.4	0.33	11	29.5	26.80	1.6	1.53	3
Peprilus burti	0.0	0.00	0.0	0.00	12	1.6	1.17	0.0	0.03	11	2.6	1.32	0.2	0.08	3
Trachurus lathami	0.0	0.00	0.0	0.00	12	0.0	0.00	0.0	0.00	11	0.7	0.73	0.0	0.01	3
Synodus foetens	0.0	0.00	0.0	0.00	12	14.2	6.31	0.5	0.18	11	62.8	33.57	3.8	2.57	3
Saurida brasiliensis	0.0	0.00	0.0	0.00	12	0.0	0.00	0.0	0.00	11	1.5	1.46	0.0	0.01	3
Trichiurus lepturus	22.4	9.19	0.5	0.25	12	4.1	2.81	0.0	0.03	11	4.7	4.73	0.1	0.10	3
Squid spp	50.5	11.91	0.5	0.10	12	118.6	11.59	1.3	0.15	11	165.2	128.73	2.1	1.84	3

Table 10a (continued)

Statistical Zone 18

Summary of dominant organisms taken in statistical zone 18 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	674.4	315.33	11.5	5.02	8	157.4	44.64	3.9	1.04	5	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	142.3	82.22	0.8	0.44	8	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	0
Litopenaeus setiferus	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	0
Callinectes similis	79.9	36.03	1.0	0.45	8	2.0	1.21	0.0	0.03	5	0.0	0.00	0.0	0.00	0
Squilla spp	14.2	9.10	0.1	0.08	8	2.6	1.62	0.0	0.01	5	0.0	0.00	0.0	0.00	0
Sicyonia dorsalis	9.9	5.35	0.0	0.01	8	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	1388.2	539.00	53.3	19.47	8	409.1	79.00	19.0	3.74	5	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	18.0	9.15	0.9	0.47	8	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	42.7	37.13	3.0	2.61	8	167.8	165.92	11.2	10.98	5	0.0	0.00	0.0	0.00	0
Peprilus burti	97.9	51.79	7.5	3.95	8	160.0	95.57	11.9	7.10	5	0.0	0.00	0.0	0.00	0
Trachurus lathami	151.5	74.79	3.2	1.61	8	78.2	16.25	1.5	0.25	5	0.0	0.00	0.0	0.00	0
Synodus foetens	48.9	7.07	6.6	0.88	8	51.5	13.79	6.5	1.95	5	0.0	0.00	0.0	0.00	0
Saurida brasiliensis	64.5	17.11	0.3	0.08	8	96.6	50.40	0.4	0.15	5	0.0	0.00	0.0	0.00	0
Trichiurus lepturus	21.6	14.18	0.5	0.36	8	71.3	45.54	1.9	1.15	5	0.0	0.00	0.0	0.00	0
Squid spp	69.9	28.29	0.6	0.29	8	35.5	12.81	0.3	0.07	5	0.0	0.00	0.0	0.00	0

Table 10b

Statistical Zone 18

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 40 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	33.9	24.36	12	63.1	21.58	11	84.8	22.91	3	0.0	0	0	87.8	14.12	5	0.0	0	0	
Total finfish	25.6	18.74	12	63.7	22.78	10	49.0	13.4	3	0.0	0	0	82.4	13.81	5	0.0	0	0	
Total crustacean	6.6	5.66	12	3.3	2.53	11	33.4	20.09	3	0.0	0	0	4.7	1.06	5	0.0	0	0	
Total other	1.7	0.89	12	1.9	0.28	11	2.2	1.81	3	0.0	0	0	0.7	0.37	5	0.0	0	0	
Surface temperature	29.5	0.34	12	29.2	0.19	13	28.6	0.11	4	0.0	0	0	28.8	0.34	3	0.0	0	0	
Midwater temperature	29.2	0.28	12	28.9	0.16	13	28.4	0.14	4	0.0	0	0	26.8	0.73	3	0.0	0	0	
Bottom temperature	28.9	0.35	12	28.6	0.22	13	25.7	0.81	4	0.0	0	0	19.8	0.85	3	0.0	0	0	
Surface salinity	31.0	0.45	12	31.9	0.22	13	33.4	0.15	4	0.0	0	0	35.3	0.5	3	0.0	0	0	
Midwater salinity	31.1	0.37	12	32.0	0.23	13	33.7	0.31	4	0.0	0	0	36.4	0.09	3	0.0	0	0	
Bottom salinity	31.4	0.25	12	32.6	0.23	13	35.2	0.3	4	0.0	0	0	36.5	0.02	3	0.0	0	0	
Surface chlorophyll	0.0	0	1	0.0	0	5	0.0	0	3	0.0	0	0	0.0	0	3	0.0	0	0	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	6.6	0.15	12	6.4	0.13	13	6.4	0.03	4	0.0	0	0	6.4	0.06	3	0.0	0	0	
Midwater oxygen	6.3	0.23	12	6.3	0.07	13	6.4	0.06	4	0.0	0	0	6.6	0.09	3	0.0	0	0	
Bottom oxygen	5.6	0.33	12	5.3	0.28	13	5.5	0.21	4	0.0	0	0	4.6	0.52	3	0.0	0	0	

Table 11a

Statistical Zone 19

Summary of dominant organisms taken in statistical zone 19 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	1.8	1.76	0.0	0.01	2	267.3	189.83	4.9	3.73	16	885.1	328.05	11.4	4.25	20
Trachypenaeus similis	0.0	0.00	0.0	0.00	2	42.4	31.66	0.1	0.08	16	465.2	195.51	2.0	0.88	20
Portunus spinicarpus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	16	0.0	0.00	0.0	0.00	20
Callinectes similis	3.5	3.53	0.1	0.07	2	55.0	27.79	0.9	0.46	16	82.1	23.26	1.1	0.29	20
Squilla spp	1.8	1.76	0.0	0.00	2	25.0	14.69	0.2	0.12	16	56.9	23.11	0.4	0.18	20
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	2	0.8	0.75	0.0	0.00	16	48.2	42.51	0.2	0.21	20
Micropogonias undulatus	98.8	98.82	1.7	1.72	2	4060.9	3854.00	71.5	70.03	16	3.0	1.45	0.1	0.07	20
Stenotomus caprinus	0.0	0.00	0.0	0.00	2	129.5	56.93	0.9	0.33	16	994.0	237.64	7.8	2.61	20
Chloroscombrus chrysurus	933.4	771.35	16.1	14.00	2	450.4	183.61	11.0	4.97	16	77.4	28.43	2.4	0.82	20
Cynoscion nothus	28.2	28.24	0.5	0.48	2	588.8	495.24	14.5	11.67	16	19.4	8.41	0.5	0.23	20
Larimus fasciatus	3.5	3.53	0.1	0.12	2	473.0	471.47	13.5	13.47	16	1.2	0.96	0.1	0.04	20
Syacium gunteri	0.0	0.00	0.0	0.00	2	61.8	20.43	0.9	0.35	16	103.1	23.00	1.9	0.42	20
Cynoscion arenarius	0.0	0.00	0.0	0.00	2	173.8	166.14	8.7	8.62	16	3.7	1.55	0.1	0.06	20
Saurida brasiliensis	1.8	1.76	0.0	0.01	2	0.0	0.00	0.0	0.00	16	79.1	27.72	0.3	0.15	20
Squid spp	68.3	62.29	0.7	0.66	2	95.5	32.57	1.2	0.37	16	187.6	69.67	1.9	0.69	20

Table 11a (continued)

Statistical Zone 19

Summary of dominant organisms taken in statistical zone 19 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	1262.4	381.95	25.6	6.07	4	297.6	0.00	8.6	0.00	1	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	156.0	61.74	1.0	0.36	4	2.4	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Portunus spinicarpus	98.3	68.85	0.4	0.28	4	3937.6	0.00	15.1	0.00	1	0.0	0.00	0.0	0.00	0
Callinectes similis	232.6	180.62	2.1	1.48	4	5.9	0.00	0.1	0.00	1	0.0	0.00	0.0	0.00	0
Squilla spp	49.4	19.75	0.4	0.19	4	14.1	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	15.6	15.20	0.7	0.65	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	137.0	40.33	8.4	4.55	4	55.3	0.00	2.9	0.00	1	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Cynoscion nothus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Larimus fasciatus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Syacium gunteri	9.0	4.20	0.1	0.06	4	12.9	0.00	0.2	0.00	1	0.0	0.00	0.0	0.00	0
Cynoscion arenarius	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Saurida brasiliensis	18.3	13.53	0.1	0.07	4	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Squid spp	12.6	6.32	0.3	0.18	4	5.9	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0

Table 11b

Statistical Zone 19

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 40 fm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	21.0	18.56	2	152.0	122.9	16	40.8	7.33	20	0.0	0	0	46.4	0	1	0.0	0	0
Total finfish	19.3	17.45	2	139.0	121	16	21.8	4.06	20	0.0	0	0	16.8	0	1	0.0	0	0
Total crustacean	1.1	0	1	8.4	4.63	16	16.3	5.21	20	0.0	0	0	25.3	0	1	0.0	0	0
Total other	1.2	0.58	2	4.5	0.76	16	2.6	0.67	20	0.0	0	0	4.2	0	1	0.0	0	0
Surface temperature	28.2	0.75	2	28.6	0.22	17	28.9	0.08	19	0.0	0	0	28.9	0	1	0.0	0	0
Midwater temperature	28.1	0.7	2	28.1	0.33	17	28.5	0.08	19	0.0	0	0	27.7	0	1	0.0	0	0
Bottom temperature	27.4	1.28	2	27.7	0.33	17	25.9	0.57	19	0.0	0	0	19.8	0	1	0.0	0	0
Surface salinity	33.3	0.24	2	34.0	0.23	17	34.6	0.18	19	0.0	0	0	34.7	0	1	0.0	0	0
Midwater salinity	34.1	0.17	2	34.4	0.19	17	34.9	0.12	19	0.0	0	0	36.4	0	1	0.0	0	0
Bottom salinity	34.2	0.21	2	34.5	0.22	17	35.4	0.19	19	0.0	0	0	36.5	0	1	0.0	0	0
Surface chlorophyll	0.0	0	1	0.0	0	4	0.0	0	12	0.0	0	0	0.0	0	1	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	6.4	0.1	2	6.3	0.09	17	6.3	0.07	19	0.0	0	0	6.4	0	1	0.0	0	0
Midwater oxygen	6.1	0.35	2	6.2	0.06	17	6.4	0.05	19	0.0	0	0	6.5	0	1	0.0	0	0
Bottom oxygen	5.4	0.25	2	5.8	0.16	17	5.7	0.13	19	0.0	0	0	4.3	0	1	0.0	0	0

Table 12a
 Statistical Zone 20

Summary of dominant organisms taken in statistical zone 20 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	8	30.4	28.48	0.3	0.26	10	1267.8	367.44	13.5	3.59	15
Trachypenaeus similis	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	486.0	167.10	1.8	0.63	15
Callinectes similis	2.0	2.05	0.0	0.03	8	2.1	1.07	0.0	0.02	10	89.2	29.00	1.4	0.50	15
Sicyonia dorsalis	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	70.0	40.30	0.1	0.06	15
Solenocera vioscai	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	1.0	0.69	0.0	0.00	15
Portunus spinicarpus	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	3.2	3.17	0.0	0.02	15
Stenotomus caprinus	2.7	1.79	0.0	0.01	8	67.3	33.78	0.3	0.17	10	827.3	249.97	2.7	0.91	15
Saurida brasiliensis	2.0	2.05	0.0	0.01	8	0.6	0.57	0.0	0.00	10	92.5	31.57	0.5	0.16	15
Chloroscombrus chrysurus	570.7	484.69	19.1	15.84	8	533.7	239.07	10.4	5.86	10	30.5	13.08	0.8	0.34	15
Serranus atrobranchus	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	58.3	26.57	0.3	0.13	15
Prionotus stearnsi	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	10	1.3	0.72	0.0	0.00	15
Peprilus burti	2.8	1.48	0.0	0.01	8	6.6	3.06	0.1	0.03	10	83.5	18.83	0.9	0.23	15
Synodus foetens	0.0	0.00	0.0	0.00	8	5.6	3.15	0.2	0.11	10	32.6	9.20	1.3	0.32	15
Centropristis philadelphica	0.0	0.00	0.0	0.00	8	1.8	1.78	0.0	0.02	10	24.0	9.72	0.3	0.09	15
Squid spp	24.1	14.03	0.4	0.22	8	68.4	15.65	0.9	0.24	10	235.1	53.24	2.6	0.60	15

Table 12a (continued)

Statistical Zone 20

Summary of dominant organisms taken in statistical zone 20 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.															
SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	706.3	260.72	7.0	2.21	7	307.9	97.49	6.7	2.01	7	83.7	32.99	3.4	1.35	7
Trachypenaeus similis	784.4	333.28	3.2	1.34	7	264.9	168.79	1.3	0.83	7	4.2	2.24	0.0	0.00	7
Callinectes similis	146.9	52.67	1.5	0.47	7	74.4	73.64	0.8	0.76	7	0.5	0.52	0.0	0.01	7
Sicyonia dorsalis	157.9	106.74	0.4	0.26	7	0.0	0.00	0.0	0.00	7	0.0	0.00	0.0	0.00	7
Solenocera vioscai	97.0	41.06	0.5	0.18	7	84.0	49.03	0.5	0.26	7	12.2	7.80	0.1	0.05	7
Portunus spinicarpus	10.2	2.89	0.0	0.02	7	96.5	36.85	0.5	0.19	7	71.5	27.01	0.4	0.15	7
Stenotomus caprinus	245.4	124.46	1.2	0.78	7	157.1	35.59	6.2	1.58	7	151.9	36.74	6.4	1.49	7
Saurida brasiliensis	368.0	142.45	2.1	0.82	7	118.2	58.07	0.6	0.28	7	49.2	16.33	0.2	0.08	7
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	7	0.3	0.33	0.0	0.01	7	0.0	0.00	0.0	0.00	7
Serranus atrobranchus	153.0	78.36	0.9	0.35	7	107.0	54.36	1.6	0.87	7	89.9	55.98	1.3	0.78	7
Prionotus stearnsi	64.2	25.61	0.3	0.12	7	77.7	28.25	0.5	0.16	7	150.9	69.92	1.8	0.99	7
Peprilus burti	11.4	9.10	0.8	0.71	7	2.7	2.50	0.2	0.17	7	36.5	21.06	3.0	1.66	7
Synodus foetens	38.3	8.95	5.1	1.44	7	31.3	6.64	4.9	1.03	7	24.4	3.93	4.1	0.87	7
Centropristis philadelphica	56.5	26.08	0.9	0.32	7	9.9	4.67	0.5	0.21	7	8.6	4.36	0.6	0.34	7
Squid spp	80.3	43.70	0.6	0.30	7	152.7	77.16	1.1	0.46	7	128.3	73.79	1.2	0.59	7

Table 12b
 Statistical Zone 20

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	40.5	20.87	8	29.1	14.02	10	32.9	6.05	15	0.0	0	0	37.4	3.93	7	49.7	11.87	7
Total finfish	23.3	17.28	8	15.7	7.67	10	11.4	1.66	15	0.0	0	0	24.5	1.28	7	42.9	10.95	7
Total crustacean	0.7	0.73	3	3.0	2.75	8	18.2	4.62	15	0.0	0	0	10.7	3.81	7	4.3	1.45	7
Total other	16.8	5.22	8	10.9	6.76	10	3.3	0.69	15	0.0	0	0	2.1	0.48	7	2.5	0.78	7
Surface temperature	29.2	0.23	8	27.9	0.33	8	27.8	0.15	17	0.0	0	0	28.4	0.22	4	28.7	0.12	5
Midwater temperature	29.1	0.23	8	27.8	0.35	8	27.6	0.16	17	0.0	0	0	27.1	0.57	4	26.1	0.56	5
Bottom temperature	28.9	0.26	8	27.4	0.41	8	26.5	0.4	17	0.0	0	0	21.7	0.5	4	20.6	0.3	5
Surface salinity	36.1	0.38	8	35.0	0.51	8	36.0	0.19	17	0.0	0	0	36.5	0.04	4	36.5	0.04	5
Midwater salinity	36.2	0.26	8	35.1	0.38	8	36.1	0.13	17	0.0	0	0	36.5	0.02	4	36.6	0.01	5
Bottom salinity	36.2	0.23	8	35.4	0.44	8	36.3	0.1	17	0.0	0	0	36.5	0.05	4	36.5	0.01	5
Surface chlorophyll	0.0	0	1	0.0	0	0	0.0	0	12	0.0	0	0	0.0	0	3	0.0	0	5
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	5.4	0.23	8	5.6	0.18	8	6.2	0.12	17	0.0	0	0	6.5	0.03	4	6.4	0.02	5
Midwater oxygen	5.5	0.19	8	5.6	0.16	8	6.2	0.11	17	0.0	0	0	6.6	0.09	4	6.8	0.1	5
Bottom oxygen	5.3	0.3	8	5.3	0.17	8	5.9	0.14	17	0.0	0	0	5.8	0.45	4	5.1	0.38	5

Table 13a

Statistical Zone 21

Summary of dominant organisms taken in statistical zone 21 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm or greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	400.5	340.27	4.1	3.48	12	328.3	193.58	4.4	2.63	18
Farfantepenaeus duorarum	0.0	0.00	0.0	0.00	0	186.0	104.20	3.7	2.07	12	43.2	38.20	0.5	0.48	18
Trachypenaeus similis	0.0	0.00	0.0	0.00	0	11.3	11.25	0.0	0.05	12	89.4	88.61	0.2	0.21	18
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	0	46.6	28.55	0.2	0.11	12	6.2	5.00	0.0	0.02	18
Squilla spp	0.0	0.00	0.0	0.00	0	25.8	15.16	0.4	0.18	12	12.5	10.71	0.2	0.14	18
Callinectes similis	0.0	0.00	0.0	0.00	0	7.0	4.78	0.2	0.14	12	14.9	10.24	0.3	0.21	18
Stenotomus caprinus	0.0	0.00	0.0	0.00	0	604.1	266.32	3.7	1.59	12	2247.3	681.99	13.0	4.61	18
Saurida brasiliensis	0.0	0.00	0.0	0.00	0	3.2	1.53	0.0	0.01	12	71.2	24.95	0.3	0.12	18
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	0	90.9	55.36	3.5	2.52	12	53.4	40.00	1.1	0.79	18
Anchoa hepsetus	0.0	0.00	0.0	0.00	0	73.4	42.77	0.7	0.46	12	17.6	13.77	0.3	0.24	18
Larimus fasciatus	0.0	0.00	0.0	0.00	0	130.5	61.63	3.0	1.42	12	0.3	0.28	0.0	0.00	18
Micropogonias undulatus	0.0	0.00	0.0	0.00	0	135.1	68.45	2.9	1.41	12	0.3	0.28	0.0	0.01	18
Lagodon rhomboides	0.0	0.00	0.0	0.00	0	93.1	32.85	1.6	0.49	12	0.9	0.65	0.0	0.02	18
Synodus foetens	0.0	0.00	0.0	0.00	0	19.6	14.90	0.5	0.42	12	35.7	9.88	1.0	0.29	18
Squid spp	0.0	0.00	0.0	0.00	0	111.5	56.45	2.0	0.98	12	280.3	97.07	3.5	1.21	18

Table 13a (continued)

Statistical Zone 21

Summary of dominant organisms taken in statistical zone 21 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm or greater than 40 fm

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	33.2	0.00	0.5	0.00	1	127.3	0.00	5.8	0.00	1	0.0	0.00	0.0	0.00	0
Farfantepenaeus duorarum	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Trachypenaeus similis	0.0	0.00	0.0	0.00	1	22.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Trachypenaeus constrictus	2.1	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Squilla spp	0.0	0.00	0.0	0.00	1	2.4	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Callinectes similis	6.4	0.00	0.2	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	485.4	0.00	1.3	0.00	1	78.4	0.00	3.2	0.00	1	0.0	0.00	0.0	0.00	0
Saurida brasiliensis	157.5	0.00	0.9	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Anchoa hepsetus	4.3	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Larimus fasciatus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Lagodon rhomboides	0.0	0.00	0.0	0.00	1	2.4	0.00	0.1	0.00	1	0.0	0.00	0.0	0.00	0
Synodus foetens	50.4	0.00	2.8	0.00	1	8.6	0.00	1.2	0.00	1	0.0	0.00	0.0	0.00	0
Squid spp	117.9	0.00	1.4	0.00	1	13.5	0.00	0.8	0.00	1	0.0	0.00	0.0	0.00	0

Table 13b

Statistical Zone 21

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 6 fm or greater than 40 fm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	0.0	0	0	42.7	11.29	12	29.4	7.75	18	0.0	0	0	32.0	0	1	0.0	0	0
Total finfish	0.0	0	0	28.5	8.33	12	19.2	5.51	18	0.0	0	0	20.3	0	1	0.0	0	0
Total crustacean	0.0	0	0	13.4	5.72	10	6.7	3.45	17	0.0	0	0	6.5	0	1	0.0	0	0
Total other	0.0	0	0	2.9	1.35	12	3.7	1.29	18	0.0	0	0	5.0	0	1	0.0	0	0
Surface temperature	0.0	0	0	26.1	0.14	12	26.5	0.15	18	0.0	0	0	28.1	0	1	0.0	0	0
Midwater temperature	0.0	0	0	25.7	0.17	12	26.0	0.17	18	0.0	0	0	25.0	0	1	0.0	0	0
Bottom temperature	0.0	0	0	24.6	0.19	12	24.3	0.22	18	0.0	0	0	22.1	0	1	0.0	0	0
Surface salinity	0.0	0	0	36.7	0.04	12	36.6	0.03	18	0.0	0	0	36.5	0	1	0.0	0	0
Midwater salinity	0.0	0	0	36.7	0.04	12	36.7	0.03	18	0.0	0	0	36.5	0	1	0.0	0	0
Bottom salinity	0.0	0	0	36.7	0.05	12	36.7	0.04	18	0.0	0	0	36.5	0	1	0.0	0	0
Surface chlorophyll	0.0	0	0	0.0	0	5	0.0	0	9	0.0	0	0	0.0	0	1	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	0.0	0	0	5.9	0.14	12	5.9	0.14	18	0.0	0	0	6.3	0	1	0.0	0	0
Midwater oxygen	0.0	0	0	5.9	0.14	12	5.9	0.15	18	0.0	0	0	6.9	0	1	0.0	0	0
Bottom oxygen	0.0	0	0	5.7	0.15	12	5.7	0.16	18	0.0	0	0	6.1	0	1	0.0	0	0

Table 14a

Statistical Zone 22

Summary of dominant organisms taken in statistical zone 22 during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm or greater than 10 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
<i>Clibanarius vittatus</i>	0.0	0.00	0.0	0.00	0	6.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
<i>Chloroscombrus chrysurus</i>	0.0	0.00	0.0	0.00	0	174.0	0.00	2.8	0.00	1	0.0	0.00	0.0	0.00	0
<i>Stenotomus caprinus</i>	0.0	0.00	0.0	0.00	0	12.0	0.00	0.1	0.00	1	0.0	0.00	0.0	0.00	0
<i>Upeneus parvus</i>	0.0	0.00	0.0	0.00	0	6.0	0.00	0.1	0.00	1	0.0	0.00	0.0	0.00	0
Squid spp	0.0	0.00	0.0	0.00	0	24.0	0.00	0.5	0.00	1	0.0	0.00	0.0	0.00	0

Table 14b

Statistical Zone 22

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Summer Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 6 fm or greater than 10 fm.																		
Environmental Category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	0.0	0	0	3.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Total finfish	0.0	0	0	3.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Total crustacean	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Total other	0.0	0	0	0.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface temperature	0.0	0	0	25.4	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Midwater temperature	0.0	0	0	25.4	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Bottom temperature	0.0	0	0	25.4	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface salinity	0.0	0	0	36.5	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Midwater salinity	0.0	0	0	36.5	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Bottom salinity	0.0	0	0	36.8	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	0.0	0	0	5.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Midwater oxygen	0.0	0	0	5.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Bottom oxygen	0.0	0	0	4.7	0	1	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0

Table 15. 2006 Fall Shrimp/Groundfish Survey species composition list, 356 trawl stations, for those vessels that used either a 40-ft or 20-ft trawl.

Species with a total weight of less than 0.0227 kg (0.05 lb) are indicated on the table as 0.0 kg.

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER CAUGHT	TOTAL WEIGHT CAUGHT (KG)	NUMBER OF TOWS WHERE CAUGHT	% FREQUENCY OCCURRENCE
<u>Finfishes</u>					
Micropogonias undulatus	Atlantic croaker	74515	3626.0	250	70.2
Stenotomus caprinus	longspine porgy	38520	1271.0	217	61.0
Chloroscombrus chrysurus	Atlantic bumper	13713	397.7	135	37.9
Cynoscion nothus	silver seatrout	9981	372.7	180	50.6
Syacium gunteri	shoal flounder	9874	146.4	191	53.7
Leiostomus xanthurus	spot	8666	754.3	162	45.5
Serranus atrobranchus	blackear bass	7328	67.6	96	27.0
Synodus foetens	inshore lizardfish	5580	619.1	215	60.4
Stellifer lanceolatus	star drum	5440	81.4	67	18.8
Prionotus longispinosus	bigeye searobin	4510	155.7	111	31.2
Peprilus burti	gulf butterfish	4306	327.9	102	28.7
Diplectrum bivittatum	dwarf sand perch	4058	61.7	138	38.8
Cynoscion arenarius	sand seatrout	3781	368.1	165	46.3
Trachurus lathami	rough scad	3745	185.5	72	20.2
Lagodon rhomboides	pinfish	3719	198.9	115	32.3
Prionotus roseus	bluespotted searobin	3689	78.7	65	18.3
Eucinostomus gula	silver jenny	3472	79.6	127	35.7
Trichiurus lepturus	Atlantic cutlassfish	3202	118.9	94	26.4
Anchoa hepsetus	striped anchovy	2981	45.1	89	25.0
Lutjanus campechanus	red snapper	2902	109.5	200	56.2
Centropristis philadelphica	rock sea bass	2839	119.7	183	51.4
Lutjanus synagris	lane snapper	2463	148.0	116	32.6
Cynoscion spp.	seatrouts	2243	12.7	27	7.6
Upeneus parvus	dwarf goatfish	1648	67.2	64	18.0
Larimus fasciatus	banded drum	1633	95.4	90	25.3
Cyclopsetta chittendeni	Mexican flounder	1456	84.0	123	34.6

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Pristipomoides aquilonaris</i>	wenchman	1405	93.5	40	11.2
<i>Etropus crossotus</i>	fringed flounder	1359	16.8	132	37.1
<i>Arius felis</i>	hardhead catfish	1336	171.4	89	25.0
<i>Prionotus rubio</i>	blackwing searobin	1239	51.7	50	14.0
<i>Halieutichthys aculeatus</i>	pancake batfish	1227	7.9	115	32.3
<i>Harengula jaguana</i>	scaled sardine	1216	36.4	69	19.4
<i>Sphoeroides parvus</i>	least puffer	1197	5.6	111	31.2
<i>Brevoortia patronus</i>	gulf menhaden	1175	55.5	60	16.9
<i>Menticirrhus americanus</i>	southern kingfish	1136	103.0	78	21.9
<i>Opisthonema oglinum</i>	Atlantic thread herring	1116	37.8	44	12.4
<i>Trichopsetta ventralis</i>	sash flounder	982	21.8	43	12.1
<i>Prionotus paralatus</i>	Mexican searobin	900	44.8	23	6.5
<i>Citharichthys spilopterus</i>	bay whiff	813	12.5	81	22.8
<i>Saurida brasiliensis</i>	largescale lizardfish	812	2.6	69	19.4
<i>Selene setapinnis</i>	Atlantic moonfish	730	40.1	82	23.0
<i>Anchoa mitchilli</i>	bay anchovy	660	1.1	54	15.2
<i>Chaetodipterus faber</i>	Atlantic spadefish	593	35.6	97	27.2
<i>Lepophidium brevibarbe</i>	blackedge cusk-eel	584	20.3	75	21.1
<i>Peprilus alepidotus</i>	harvestfish	583	29.6	63	17.7
<i>Bagre marinus</i>	gafftopsail catfish	563	32.8	60	16.9
<i>Prionotus stearnsi</i>	shortwing searobin	521	5.3	29	8.1
<i>Porichthys plectrodon</i>	Atlantic midshipman	432	8.4	92	25.8
<i>Gymnachirus texae</i>	fringed sole	375	5.9	62	17.4
<i>Synodus poeyi</i>	offshore lizardfish	313	2.1	47	13.2
<i>Balistes capriscus</i>	gray triggerfish	312	58.7	51	14.3
<i>Syacium micrurum</i>	channel flounder	306	9.1	12	3.4
<i>Syacium papillosum</i>	dusky flounder	303	11.8	22	6.2
<i>Scorpaena calcarata</i>	smoothhead scorpionfish	297	2.4	37	10.4
<i>Estropus microstomus</i>	smallmouth flounder	289	1.6	4	1.1
<i>Estropus microstomus</i>	smallmouth flounder	289	1.6	4	1.1

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Haemulon aurolineatum</i>	tomtate	289	9.2	19	5.3
<i>Symphurus plagiusa</i>	blackcheek tonguefish	267	4.7	79	22.2
<i>Mullus auratus</i>	red goatfish	250	18.3	16	4.5
<i>Conodon nobilis</i>	barred grunt	232	9.4	15	4.2
<i>Sphoeroides dorsalis</i>	marbled puffer	232	1.8	7	2.0
<i>Paralichthys lethostigma</i>	southern flounder	229	79.3	58	16.3
<i>Ogocephalus declivirostris</i>	slantbrow batfish	209	5.5	41	11.5
<i>Bollmannia communis</i>	ragged goby	205	20.3	26	7.3
<i>Sardinella aurita</i>	spanish sardine	196	4.5	14	3.9
<i>Diplectrum formosum</i>	sand perch	185	13.0	13	3.7
<i>Hildebrandia flava</i>	yellow conger	173	11.3	26	7.3
<i>Anchoa nasus</i>	longnose anchovy	139	0.9	2	0.6
<i>Caranx crysos</i>	blue runner	131	15.0	31	8.7
<i>Raja texana</i>	roundel skate	121	37.2	53	14.9
<i>Orthopristis chrysoptera</i>	pigfish	116	8.4	24	6.7
<i>Sphyraena guachancho</i>	guaguanche	116	9.6	33	9.3
<i>Monacanthus hispidus</i>	planehead filefish	115	2.7	13	3.7
<i>Urophycis floridana</i>	southern hake	105	14.2	14	3.9
<i>Ophidion welshi</i>	crested cusk-eel	100	4.6	27	7.6
<i>Engyophrys senta</i>	spiny flounder	94	0.3	15	4.2
<i>Ancylopsetta dilecta</i>	three-eye flounder	85	7.7	8	2.2
<i>Selene vomer</i>	lookdown	81	1.7	25	7.0
<i>Gobioides broussoneti</i>	violet goby	71	0.4	9	2.5
<i>Bellator militaris</i>	horned searobin	70	0.5	11	3.1
<i>Lagocephalus laevigatus</i>	smooth puffer	66	5.8	26	7.3
<i>Scomberomorus maculatus</i>	spanish mackerel	64	15.5	21	5.9
<i>Steindachneria argentea</i>	luminous hake	64	0.2	4	1.1
<i>Kathetostoma albigutta</i>	lancer stargazer	57	3.2	13	3.7
<i>Gobionellus boleosoma</i>	darter goby	56	0.2	1	0.3
<i>Scomberomorus cavalla</i>	king mackerel	56	5.3	21	5.9

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Prionotus ophryas</i>	bandtail searobin	54	0.5	14	3.9
<i>Etrumeus teres</i>	round herring	53	1.4	5	1.4
<i>Equetus umbrosus</i>	cubbyu	52	1.6	14	3.9
<i>Hoplunnis macrurus</i>	freckled pike-conger	52	0.4	23	6.5
<i>Scorpaena agassizii</i>	longfin scorpionfish	52	0.6	14	3.9
<i>Symphurus diomedianus</i>	spottedfin tonguefish	52	1.3	13	3.7
<i>Selar crumenophthalmus</i>	bigeye scad	48	3.5	12	3.4
<i>Lepophidium jeannae</i>	mottled cusk-eel	43	1.8	4	1.1
<i>Hemicaranx amblyrhynchus</i>	bluntnose jack	40	0.7	23	6.5
<i>Caulolatilus intermedius</i>	anchor tilefish	37	2.3	12	3.4
<i>Peristedion gracile</i>	slender searobin	37	1.1	2	0.6
<i>Ancylopsetta quadrocellata</i>	ocellated flounder	35	7.2	15	4.2
<i>Citharichthys macrops</i>	spotted whiff	32	0.8	11	3.1
<i>Eucinostomus argenteus</i>	spotfin mojarra	32	0.4	13	3.7
<i>Neomerinthe hemingwayi</i>	spinycheek scorpionfish	32	4.3	4	1.1
<i>Prionotus tribulus</i>	bighead searobin	32	1.3	14	3.9
<i>Sphaeroides spengleri</i>	bandtail puffer	32	0.4	3	0.8
<i>Gobionellus hastatus</i>	darer gobies	31	0.1	1	0.3
<i>Paralichthys squamilentus</i>	broad flounder	31	6.3	3	0.8
<i>Rhizoprionodon terraenovae</i>	Atlantic sharpnose shark	30	45.9	16	4.5
<i>Priacanthus arenatus</i>	bigeye	29	3.8	8	2.2
<i>Mustelus canis</i>	smooth dogfish	28	31.1	15	4.2
<i>Brotula barbata</i>	bearded brotula	27	6.0	8	2.2
<i>Menticirrhus littoralis</i>	gulf kingfish	27	3.9	7	2.0
<i>Narcine brasiliensis</i>	lesser electric ray	27	244.4	6	1.7
<i>Calamus leucosteus</i>	whitebone porgy	26	8.5	3	0.8
<i>Ophidion grayi</i>	blotched cusk-eel	26	1.1	6	1.7
<i>Chromis enchrysur</i>	yellowtail reeffish	24	0.3	1	0.3
<i>Ogcocephalus pantostictus</i>	spotted batfish	24	4.6	11	3.1
<i>Umbrina coroides</i>	sand drum	23	0.9	2	0.6

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
Pisces	fishes	22	0.4	9	2.5
Chaetodon sedentarius	reef butterflyfish	21	0.5	2	0.6
Antennarius radiosus	singlespot frogfish	20	0.4	6	1.7
Decapterus punctatus	round scad	20	0.6	3	0.8
Pagrus pagrus	red porgy	20	2.1	3	0.8
Sphyrna tiburo	bonnethead	20	18.8	12	3.4
Lactophrys quadricornis	scrawled cowfish	19	1.8	5	1.4
Rhinoptera bonasus	cownose ray	19	80.8	7	2.0
Prionotus alatus	spiny searobin	18	0.3	2	0.6
Rachycentron canadum	cobia	17	12.2	9	2.5
Gymnothorax saxicola	honeycomb moray	15	1.6	8	2.2
Microgobius gulosus	clown goby	14	0.1	1	0.3
Rhomboplites aurorubens	vermillion snapper	14	0.8	6	1.7
Anchoviella perfasciata	poey's anchovy	13	0.0	1	0.3
Bairdiella chrysoura	silver perch	13	0.7	6	1.7
Dasyatis sabina	Atlantic stringray	13	5.4	9	2.5
Prionotus scitulus	leopard searobin	13	0.3	5	1.4
Symphurus civitatus	offshore tonguefish	13	0.2	5	1.4
Trachinotus carolinus	Florida pompano	13	3.3	7	2.0
Centropristis ocyura	bank sea bass	12	0.6	5	1.4
Epinephelus flavolimbatus	yellowedge grouper	12	1.9	4	1.1
Trachinocephalus myops	snakefish	12	0.7	1	0.3
Anchoa lyolepis	dusky anchovy	11	0.0	5	1.4
Gymnachirus melas	naked sole	11	0.3	3	0.8
Squatina dumeril	Atlantic angel shark	11	69.4	7	2.0
Urophycis cirrata	gulf hake	11	2.8	3	0.8
Cyclopsetta fimbriata	spotfin flounder	10	1.3	4	1.1
Oligoplites saurus	leatherjack	10	0.2	5	1.4
Bregmaceros atlanticus	antenna codlet	9	0.0	4	1.1
Dasyatis americana	southern stingray	9	83.5	8	2.2

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Gymnothorax nigromarginatus</i>	blackedge moray	9	1.4	4	1.1
<i>Symphurus parvus</i>	pygmy tonguefish	9	0.2	3	0.8
<i>Decodon puellaris</i>	red hogfish	8	0.7	2	0.6
<i>Holacanthus bermudensis</i>	blue angelfish	8	0.3	1	0.3
<i>Torpedo nobiliana</i>	Atlantic torpedo	8	4.7	5	1.4
<i>Dorosoma petenense</i>	threadfin shad	7	0.5	4	1.1
<i>Lonchopisthus micrognathus</i>	swordtail jawfish	7	0.0	3	0.8
<i>Parahollandia lineata</i>	jambeau	7	1.2	1	0.3
<i>Stephanolepis setifer</i>	pygmy filefish	7	0.2	1	0.3
<i>Chilomycterus schoepfi</i>	striped burrfish	6	1.4	3	0.8
<i>Citharichthys cornutus</i>	horned whiff	6	0.0	2	0.6
<i>Elops saurus</i>	ladyfish	6	0.5	5	1.4
<i>Gobionellus oceanicus</i>	highfin goby	6	0.0	4	1.1
<i>Equetus wamotoi</i>	blackbar drum	5	0.4	1	0.3
<i>Hyporhamphus unifasciatus</i>	silverstripe halfbeak	5	0.2	1	0.3
<i>Sciaenops ocellatus</i>	red drum	5	19.6	3	0.8
<i>Aluterus heudeloti</i>	dotterel filefish	4	0.6	1	0.3
<i>Aluterus monoceros</i>	unicorn filefish	4	2.7	1	0.3
<i>Bodianus pulchellus</i>	spotfin hogfish	4	0.2	1	0.3
<i>Echeneis naucrates</i>	sharksucker	4	1.7	3	0.8
<i>Echiophis intertinctus</i>	spotted spoon-nose eel	4	0.7	2	0.6
<i>Erotelis smaragdus</i>	emerald sleeper	4	0.1	1	0.3
<i>Lophius americanus</i>	goosefish	4	0.3	1	0.3
<i>Ogcocephalus corniger</i>	longnose batfish	4	0.0	2	0.6
<i>Ophidion holbrookii</i>	bank cusk-eel	4	0.3	1	0.3
<i>Pomacentrus variabilis</i>	cocoa damselfish	4	0.0	1	0.3
<i>Pomatomus saltatrix</i>	bluefish	4	1.2	4	1.1
<i>Pristigenys alta</i>	short bigeye	4	0.5	1	0.3
<i>Rhinobatos lentiginosus</i>	Atlantic guitarfish	4	1.3	2	0.6
<i>Serranus phoebe</i>	tattler	4	0.1	1	0.3

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Sphyræna barracuda</i>	great barracuda	4	0.7	1	0.3
<i>Ctenogobius stigmaturus</i>	spottail goby	3	0.0	1	0.3
<i>Etropus cyclosquamus</i>	shelf flounder	3	0.0	3	0.8
Gobiidae	gobies	3	0.0	1	0.3
<i>Haemulon plumieri</i>	white grunt	3	0.2	2	0.6
<i>Mugil cephalus</i>	black mullet	3	0.4	2	0.6
<i>Myliobatis freminvillii</i>	bullnose ray	3	2.9	2	0.6
<i>Ogcocephalus parvus</i>	roughback batfish	3	0.2	1	0.3
<i>Pogonias cromis</i>	black drum	3	27.2	3	0.8
<i>Rypticus maculatus</i>	whitespotted soapfish	3	0.1	2	0.6
<i>Antennarius ocellatus</i>	ocellated frogfish	2	0.0	1	0.3
<i>Bothus robinsi</i>	twospot flounder	2	0.0	2	0.6
<i>Caranx hippos</i>	crevalle jack	2	0.1	1	0.3
<i>Carcharhinus acronotus</i>	blacknose shark	2	8.5	2	0.6
<i>Chilomycterus antennatus</i>	bridled burrfish	2	0.0	1	0.3
<i>Hippocampus erectus</i>	lined seahorse	2	0.0	2	0.6
<i>Mobula hypostoma</i>	Atlantic devil ray	2	32.0	1	0.3
<i>Neobythites gillii</i>	cusk-eel	2	0.0	1	0.3
<i>Ophichthus rex</i>	king snake eel	2	3.4	1	0.3
<i>Raja ackley</i>	ocellate skate	2	1.3	1	0.3
<i>Scorpaena dispar</i>	hunchback scorpionfish	2	0.1	1	0.3
<i>Scorpaena plumieri</i>	spotted scorpionfish	2	1.8	1	0.3
<i>Trinectes maculatus</i>	hogchoker	2	0.0	1	0.3
<i>Abudefduf saxatilis</i>	sergeant major	1	0.0	1	0.3
<i>Achirus lineatus</i>	lined sole	1	0.0	1	0.3
<i>Archosargus probatocephalus</i>	sheepshead	1	0.5	1	0.3
<i>Astroscopus y-graecum</i>	southern stargazer	1	0.0	1	0.3
<i>Cantherhines pullus</i>	orangespotted filefish	1	0.4	1	0.3
<i>Chaetodon ocellatus</i>	spotfin butterflyfish	1	0.0	1	0.3
<i>Dasyatis say</i>	bluntnose stingray	1	2.1	1	0.3

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Dysomma anguillare</i>	shortbelly eel	1	0.1	1	0.3
<i>Epinephelus niveatus</i>	snowy grouper	1	0.2	1	0.3
<i>Gymnothorax kolpos</i>	blacktail moray	1	0.1	1	0.3
<i>Hemanthias aureorubens</i>	streamer bass	1	0.0	1	0.3
<i>Lobotes surinamensis</i>	Atlantic tripletail	1	10.2	1	0.3
<i>Mustelus norrisi</i>	Florida smoothhound	1	0.9	1	0.3
<i>Mycteroperca microlepis</i>	gag	1	0.3	1	0.3
<i>Mycteroperca phenax</i>	scamp	1	0.2	1	0.3
Myctophidae	lanternfishes	1	0.0	1	0.3
<i>Syacium</i> spp.	lefteye flounders	1	0.0	1	0.3
<u>Crustaceans</u>					
<i>Farfantepenaeus aztecus</i>	brown shrimp	22508	507.2	270	75.8
<i>Trachypenaeus constrictus</i>	roughneck shrimp	8884	25.0	86	24.2
<i>Callinectes similis</i>	lesser blue crab	8826	150.7	215	60.4
<i>Litopenaeus setiferus</i>	white shrimp	5964	139.1	140	39.3
<i>Xiphopenaeus kroyeri</i>	seabob	4806	15.0	32	9.0
<i>Squilla empusa</i>	mantis shrimp	4524	48.5	156	43.8
<i>Portunus gibbesii</i>	iridescent swimming crab	4123	23.7	180	50.6
<i>Sicyonia dorsalis</i>	lesser rock shrimp	3085	10.4	51	14.3
<i>Trachypenaeus similis</i>	roughback shrimp	2843	9.0	84	23.6
<i>Portunus spinicarpus</i>	longspine swimming crab	2478	21.0	57	16.0
<i>Squilla chydarea</i>	mantis shrimp	1302	6.7	61	17.1
<i>Solenocera vioscai</i>	humpback shrimp	1104	5.7	34	9.6
<i>Farfantepenaeus duorarum</i>	pink shrimp	808	15.8	50	14.0
<i>Portunus spinimanus</i>	blotched swimming crab	504	8.5	71	19.9
<i>Anasimus latus</i>	stilt spider crab	399	3.6	28	7.9
<i>Sicyonia brevirostris</i>	brown rock shrimp	376	4.4	50	14.0
<i>Calappa sulcata</i>	yellow box crab	238	46.8	62	17.4

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Raninoides louisianensis</i>	gulf frog crab	198	1.6	23	6.5
<i>Parapenaeus politus</i>	deepwater rose shrimp	191	0.3	5	1.4
<i>Callinectes sapidus</i>	blue crab	111	15.3	30	8.4
<i>Trachypenaeus</i> spp.	roughneck shrimps	90	0.1	2	0.6
<i>Persephona crinita</i>	pink purse crab	84	0.2	23	6.5
<i>Penaeopsis serrata</i>	megalops shrimp	47	0.3	2	0.6
<i>Pseudorhombila quadridentata</i>	flecked squareback crab	47	1.3	12	3.4
<i>Stenorhynchus seticornis</i>	yellowline arrow crab	36	0.2	9	2.5
<i>Hepatus epheliticus</i>	calico crab	32	1.1	13	3.7
<i>Podochela sidneyi</i>	shortfinger neck crab	27	0.1	10	2.8
<i>Squilla neglecta</i>	mantis shrimp	23	0.1	7	2.0
<i>Plesionika longicauda</i>	pandalid shrimp	22	0.1	3	0.8
<i>Myropsis quinquespinosa</i>	fivespine purse crab	18	0.1	3	0.8
<i>Ovalipes floridanus</i>	Florida lady crab	17	0.3	6	1.7
<i>Paguristes triangulatus</i>	hermit crab	15	0.0	2	0.6
<i>Petrochirus diogenes</i>	giant hermit crab	15	2.0	4	1.1
<i>Pagurus pollicaris</i>	flatclaw hermit crab	13	0.2	5	1.4
<i>Scyllarides nodifer</i>	ridged slipper lobster	13	1.3	2	0.6
<i>Pagurus bullisi</i>	hermit crab	12	0.0	2	0.6
<i>Leiolambrus nitidus</i>	white elbow crab	11	0.0	3	0.8
<i>Porcellana sigsbeiana</i>	striped porcelain crab	11	0.0	2	0.6
<i>Squilla</i> spp.	mantis shrimps	10	0.1	1	0.3
<i>Dardanus insignis</i>	red brocade hermit	9	0.1	3	0.8
<i>Sicyonia typica</i>	kinglet rock shrimp	9	0.0	3	0.8
<i>Collodes robustus</i>	spider crab	8	0.1	3	0.8
<i>Libinia emarginata</i>	portly spider crab	8	0.5	3	0.8
<i>Lysiosquilla scabricauda</i>	mantis shrimp	6	0.2	5	1.4
<i>Sicyonia burkenroadi</i>	spiny rock shrimp	6	0.0	3	0.8
Branchiopoda	brachiopods	5	0.2	1	0.3
<i>Metoporphaphis calcarata</i>	false arrow crab	5	0.0	3	0.8

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Persephona mediterranea</i>	mottled purse crab	5	0.0	2	0.6
<i>Sicyonia</i> spp.	rock shrimps	5	0.0	1	0.3
<i>Arenaeus cribrarius</i>	speckled swimming crab	4	0.2	2	0.6
<i>Euphosynoplax clausa</i>	craggy bathyal crab	4	0.1	2	0.6
<i>Libinia dubia</i>	longnose spider crab	4	0.0	4	1.1
<i>Phimochirus holthuisi</i>	red-striped hermit	4	0.0	1	0.3
<i>Ethusa microphthalma</i>	broadback sumo crab	3	0.0	1	0.3
Portunidae	swimming crabs	3	0.0	1	0.3
<i>Portunus sayi</i>	sargassum swimming crab	3	0.0	3	0.8
Xanthidae	mud crabs	3	0.0	2	0.6
<i>Clibanarius vittatus</i>	thinripe hermit crab	2	0.0	2	0.6
<i>Danielum ixbauchac</i>	red sea crab	2	0.0	1	0.3
<i>Munida forceps</i>	squat lobster	2	0.0	1	0.3
<i>Parthenope granulata</i>	bladetooth elbow crab	2	0.0	1	0.3
<i>Stenocionops spinimanus</i>	prickly spider crab	2	0.4	2	0.6
Unidentified crustacean	unidentified crustacean	2	0.0	1	0.3
<i>Alpheus</i>	snapping shrimps	1	0.0	1	0.3
<i>Alpheus floridanus</i>	sand snapping shrimp	1	0.0	1	0.3
<i>Iliacantha liodactylus</i>	purse crab	1	0.0	1	0.3
<i>Menippe adina</i>	gulf stone crab	1	0.0	1	0.3
<i>Nibilia antilocapra</i>	shorthorn spiny crab	1	0.0	1	0.3
<i>Parthenope serrata</i>	sawtooth elbow crab	1	0.0	1	0.3
<i>Plesionika edwardsii</i>	soldier striped shrimp	1	0.0	1	0.3
<i>Portunus ventralis</i>		1	0.0	1	0.3
<i>Sesarma</i>	short-tailed crabs	1	0.0	1	0.3
<i>Synalpheus fritzmulleri</i>	speckled snapping shrimp	1	0.0	1	0.3

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<u>Others</u>					
Astropecten duplicatus	spiny beaded sea star	7902	11.1	54	15.2
Amusium papyraceum	paper scallop	5810	49.4	56	15.7
Renilla mulleri	short-stemmed sea pansy	2344	3.7	71	19.9
Lolliguncula brevis	Atlantic brief squid	1767	17.9	145	40.7
Loligo pealeii	longfin squid	1145	23.3	72	20.2
Astropecten cingulatus	starfish	1110	11.8	35	9.8
Loligo pleii	arrow squid	447	5.3	41	11.5
Luidia clathrata	sea star	436	5.9	59	16.6
Polystira albida	white giant turris	360	2.6	12	3.4
Pitar cordatus	schwengel's pitar	276	5.6	33	9.3
Zoobotryon	bryozoans	254	0.1	3	0.8
Chrysaora quinquecirrha	sea nettle	233	4.7	48	13.5
Aurelia aurita	moon jellyfish	214	40.2	31	8.7
Loligo spp.	squids	124	1.6	10	2.8
Clypeaster ravenelii	cake urchin	106	11.5	3	0.8
Polystira tellea	delicate giant turret	90	0.6	6	1.7
Ophiolepis elegans	brittle star	81	0.1	8	2.2
Anadara baughmani	baughman's ark	69	1.0	13	3.7
Actinidae	sea anemones	61	0.2	20	5.6
Calliactis spp.	anemone	46	0.3	14	3.9
Calliactris tricolor	common sea anemone	43	0.1	8	2.2
Mnemiopsis mccradyi	comb jelly	43	0.2	6	1.7
Tethyaster grandis	starfish	43	2.2	5	1.4
Styela plicata	tunicate	37	0.5	8	2.2
Sconsia striata	royal bonnet	29	0.5	5	1.4
Macoma brevifrons	short macoma	28	0.2	7	2.0
Tunicata	sea squirts	28	0.8	8	2.2

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Beroe ovata</i>	comb jelly	24	0.1	7	2.0
<i>Chione clenchi</i>	clench venus	23	0.3	8	2.2
<i>Cantharus cancellarius</i>	cancellate cantharus	19	0.0	8	2.2
<i>Aurelia</i>	jellyfish	15	2.8	4	1.1
<i>Laevicardium laevigatum</i>	egg cockle	13	0.8	4	1.1
<i>Tamoya haplonema</i>	sea wasp	13	0.8	8	2.2
<i>Anadara ovalis</i>	blood ark	10	0.0	3	0.8
Bryozoa	moss animals	10	0.3	5	1.4
<i>Clypeaster prostratus</i>	sea biscuit	10	2.0	3	0.8
Gorgonidae	gorgonians	10	0.0	1	0.3
Unidentified invertebrates	unidentified invertebrate	10	0.3	5	1.4
<i>Moira atropos</i>	mud heart-urchin	9	0.2	1	0.3
<i>Arcinella cornuta</i>	Florida spiny jewelbox	8	0.1	2	0.6
<i>Conus austini</i>	cone shell	8	0.1	3	0.8
<i>Stomolophus meleagris</i>	many-mouthed sea jelly	8	3.9	5	1.4
<i>Anthenoides piercei</i>	starfish	6	0.0	1	0.3
<i>Distorsio clathrata</i>	Atlantic distorsio	6	0.0	3	0.8
<i>Neverita duplicata</i>	shark eye	6	0.1	3	0.8
<i>Cancellaria reticulata</i>	common nutmeg	5	0.1	2	0.6
<i>Encope aberrans</i>	sand dollar	5	0.4	2	0.6
<i>Luidia alternata</i>	banded luidia	5	0.0	4	1.1
<i>Murex hidalgoi</i>		5	0.2	2	0.6
Holothuroidea	sea cucumbers	4	0.2	2	0.6
<i>Mnemiopsis</i>	sea walnuts	4	0.1	3	0.8
Molpadiidae	sea cucumbers	4	0.3	1	0.3
<i>Thais haemastoma</i>	rocksnail	4	0.0	1	0.3
<i>Tonna galea</i>	giant tun	4	1.6	2	0.6
<i>Anadara transversa</i>	transverse ark	3	0.0	1	0.3
<i>Argopecten gibbus</i>	calico scallop	3	0.0	1	0.3
<i>Eucrassatella speciosa</i>	beautiful crassatella	3	0.1	1	0.3

Table 15. Species composition list (continued)

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER	TOTAL WEIGHT	NUMBER OF	% FREQUENCY
		CAUGHT	CAUGHT (KG)	TOWS WHERE CAUGHT	OCCURRENCE
<i>Busycon sinistrum</i>	lightning whelk	2	0.8	1	0.3
<i>Octopus vulgaris</i>	common Atlantic octopus	2	0.3	2	0.6
Pectinidae	bivalves	2	0.0	1	0.3
<i>Schizaster orbignyana</i>	heart urchin	2	0.0	1	0.3
<i>Zoobotryon pelluc</i>	sauerkraut grass	2	2.2	1	0.3
<i>Argopecten irradians</i>	bay scallop	1	0.0	1	0.3
<i>Brissopsis alta</i>		1	0.0	1	0.3
<i>Brissopsis atlantica</i>		1	0.0	1	0.3
Coelenterata	coelenterates	1	0.1	1	0.3
<i>Molgula manhattensis</i>		1	0.0	1	0.3
<i>Phalium granulatum</i>	scotch bonnet	1	0.0	1	0.3
Polychaeta	bristleworms	1	0.0	1	0.3

Table 16a
 Statistical Zone 11

Summary of dominant organisms taken in statistical zone 11 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.7	0.71	0.0	0.01	3	34.6	14.97	0.3	0.13	12	139.6	40.24	2.0	0.56	20
Callinectes similis	0.0	0.00	0.0	0.00	3	3.7	3.10	0.1	0.06	12	31.3	16.66	0.7	0.37	20
Squilla spp	0.0	0.00	0.0	0.00	3	5.1	3.20	0.1	0.05	12	9.3	4.86	0.1	0.06	20
Portunus gibbesii	9.4	6.47	0.0	0.03	3	4.1	2.00	0.0	0.01	12	18.3	7.10	0.1	0.05	20
Farfantepenaeus duorarum	0.0	0.00	0.0	0.00	3	13.5	7.67	0.3	0.20	12	15.8	9.54	0.4	0.23	20
Solenocera vioscai	0.0	0.00	0.0	0.00	3	0.3	0.34	0.0	0.00	12	0.0	0.00	0.0	0.00	20
Micropogonias undulatus	417.0	221.70	22.1	11.25	3	999.1	770.17	39.9	27.77	12	785.1	217.47	45.8	13.76	20
Stenotomus caprinus	0.0	0.00	0.0	0.00	3	64.5	57.58	1.7	1.57	12	163.5	81.44	4.3	2.22	20
Chloroscombrus chrysurus	448.6	237.04	21.2	11.23	3	137.1	57.34	5.6	3.10	12	104.1	44.60	3.4	1.41	20
Leiostomus xanthurus	12.6	7.43	1.1	0.67	3	40.9	22.25	3.0	1.63	12	74.5	25.05	6.4	2.07	20
Eucinostomus gula	7.0	3.75	0.1	0.07	3	102.8	97.67	2.2	2.06	12	114.5	45.55	2.6	1.05	20
Peprilus burti	0.0	0.00	0.0	0.00	3	42.0	28.35	2.1	1.36	12	28.1	9.75	1.9	0.67	20
Lutjanus synagris	8.6	4.48	0.2	0.09	3	11.8	4.68	0.4	0.17	12	8.6	3.84	0.4	0.28	20
Prionotus longispinosus	0.0	0.00	0.0	0.00	3	4.9	2.84	0.1	0.07	12	28.2	10.90	0.8	0.31	20
Squid spp	1.8	1.82	0.0	0.00	3	11.8	2.71	0.1	0.02	12	4.8	1.86	0.2	0.07	20

Table 16a (continued)

Statistical Zone 11

Summary of dominant organisms taken in statistical zone 11 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	39.0	14.81	1.3	0.52	10	97.3	96.22	2.6	2.57	3	52.2	18.48	2.0	0.80	6
Callinectes similis	126.2	64.34	2.4	1.18	10	18.9	18.86	0.4	0.41	3	6.5	6.55	0.1	0.13	6
Squilla spp	11.4	7.70	0.2	0.11	10	50.9	50.86	0.3	0.34	3	5.4	3.46	0.1	0.05	6
Portunus gibbesii	13.3	8.02	0.1	0.06	10	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	6
Farfantepenaeus duorarum	0.4	0.24	0.0	0.00	10	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	6
Solenocera vioscai	0.0	0.00	0.0	0.00	10	80.0	80.00	0.6	0.57	3	5.5	5.45	0.0	0.04	6
Micropogonias undulatus	490.0	190.05	31.3	11.33	10	99.5	52.23	7.6	3.90	3	341.8	326.66	25.6	24.36	6
Stenotomus caprinus	236.0	64.08	9.7	3.09	10	188.6	76.26	12.2	5.93	3	550.4	226.91	26.9	8.54	6
Chloroscombrus chrysurus	83.4	57.98	5.7	3.92	10	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	6
Leiostomus xanthurus	182.5	130.00	16.1	11.43	10	23.5	20.88	2.8	2.51	3	75.8	56.32	8.5	5.72	6
Eucinostomus gula	18.2	9.99	0.6	0.32	10	3.3	3.27	0.2	0.20	3	0.0	0.00	0.0	0.00	6
Peprilus burti	182.5	149.41	12.9	8.83	10	0.7	0.73	0.1	0.08	3	38.2	28.43	3.6	2.64	6
Lutjanus synagris	40.1	19.74	2.4	1.26	10	242.0	129.70	20.4	10.61	3	4.3	2.85	0.4	0.25	6
Prionotus longispinosus	33.2	28.42	1.0	0.73	10	48.6	40.30	4.3	3.19	3	78.9	22.99	5.5	1.59	6
Squid spp	73.4	67.05	0.2	0.23	10	1.5	1.45	0.0	0.00	3	6.5	2.96	0.6	0.42	6

Table 16b

Statistical Zone 11

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	60.1	29.82	3	84.9	39.44	12	99.1	20.62	20	0.0	0	0	86.4	7.62	3	137.0	46.69	6
Total finfish	56.0	27.76	3	79.9	39.88	12	94.6	20.01	20	0.0	0	0	81.5	3.04	3	130.0	47.58	6
Total crustacean	0.8	0.46	3	1.5	0.48	12	4.3	1.02	20	0.0	0	0	4.3	4.18	3	5.3	1.63	6
Total other	3.3	1.7	3	3.5	2.51	12	0.3	0.1	20	0.0	0	0	0.6	0.47	3	2.3	0.85	6
Surface temperature	0.0	0	0	22.2	0.45	5	23.3	0.44	11	0.0	0	0	25.0	0.27	3	25.0	0.17	9
Midwater temperature	0.0	0	0	22.4	0.35	5	23.4	0.32	11	0.0	0	0	25.1	0.42	3	23.8	0.53	9
Bottom temperature	0.0	0	0	22.7	0.24	5	23.7	0.38	11	0.0	0	0	22.4	1.11	3	18.9	0.73	9
Surface salinity	0.0	0	0	33.6	0.49	5	34.9	0.19	11	0.0	0	0	36.0	0.39	3	36.1	0.17	9
Midwater salinity	0.0	0	0	34.0	0.41	5	35.2	0.09	11	0.0	0	0	36.2	0.2	3	36.5	0.03	9
Bottom salinity	0.0	0	0	34.3	0.34	5	35.4	0.06	11	0.0	0	0	36.4	0.09	3	36.4	0.07	9
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	0.0	0	0	6.8	0.17	5	6.1	0.62	11	0.0	0	0	6.6	0.1	3	6.5	0.03	9
Midwater oxygen	0.0	0	0	6.7	0.12	5	6.5	0.11	11	0.0	0	0	6.5	0.03	3	5.9	0.25	9
Bottom oxygen	0.0	0	0	6.4	0.12	5	6.1	0.24	11	0.0	0	0	5.3	0.62	3	4.4	0.05	9

Table 17a
 Statistical Zone 13

Summary of dominant organisms taken in statistical zone 13 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 11 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	292.9	80.24	2.9	0.82	9
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	444.6	192.92	1.6	0.72	9
Callinectes similis	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	402.2	184.62	3.2	1.19	9
Squilla spp	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	342.6	138.13	2.3	0.87	9
Portunus gibbesii	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	165.2	90.36	0.6	0.28	9
Litopenaeus setiferus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	227.9	170.19	4.0	2.10	9
Micropogonias undulatus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	713.6	275.24	29.3	11.15	9
Prionotus roseus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	450.7	266.70	4.4	2.27	9
Trichiurus lepturus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	52.7	36.01	0.8	0.63	9
Cynoscion arenarius	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	75.3	25.82	3.8	2.23	9
Leiostomus xanthurus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	41.4	22.26	3.1	1.69	9
Trachurus lathami	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	9
Prionotus longispinosus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	63.5	34.51	1.4	0.74	9
Serranus atrobranchus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	8.6	5.91	0.0	0.02	9
Squid spp	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	39.0	22.57	0.6	0.38	9

Table 17a (continued)

Statistical Zone 13

Summary of dominant organisms taken in statistical zone 13 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 11 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	403.7	30.70	2.8	0.49	2	410.8	0.00	10.9	0.00	1	1014.8	266.98	19.6	4.75	2
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Callinectes similis	97.2	67.17	2.0	1.40	2	230.8	0.00	2.2	0.00	1	46.8	30.39	0.9	0.62	2
Squilla spp	3.9	3.91	0.0	0.03	2	0.0	0.00	0.0	0.00	1	8.6	8.57	0.1	0.06	2
Portunus gibbesii	13.0	13.04	0.1	0.06	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Litopenaeus setiferus	74.5	16.76	2.7	0.53	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Micropogonias undulatus	1555.6	12.25	79.0	2.24	2	1103.1	0.00	77.0	0.00	1	517.9	10.07	42.0	0.80	2
Prionotus roseus	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	2
Trichiurus lepturus	465.2	462.58	19.2	17.82	2	0.0	0.00	0.0	0.00	1	21.0	4.68	1.7	0.56	2
Cynoscion arenarius	121.1	8.91	11.2	0.11	2	143.1	0.00	18.5	0.00	1	217.9	1.42	23.4	0.06	2
Leiostomus xanthurus	15.8	10.27	1.9	1.39	2	1652.3	0.00	191.6	0.00	1	183.7	126.99	18.6	12.14	2
Trachurus lathami	6.7	1.14	0.2	0.02	2	0.0	0.00	0.0	0.00	1	290.1	221.53	21.1	16.77	2
Prionotus longispinosus	80.8	57.46	2.2	1.55	2	480.0	0.00	16.9	0.00	1	145.1	88.42	10.3	5.81	2
Serranus atrobranchus	12.6	0.41	0.1	0.03	2	124.6	0.00	1.0	0.00	1	134.2	74.18	1.7	0.91	2
Squid spp	22.7	1.79	0.2	0.17	2	0.0	0.00	0.0	0.00	1	9.7	1.17	0.3	0.29	2

Table 17b

Statistical Zone 13

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 11 fm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	0.0	0	0	0.0	0	0	73.5	22.23	9	0.0	0	0	366.0	0	1	159.0	3.59	2
Total finfish	0.0	0	0	0.0	0	0	57.6	19.56	9	0.0	0	0	350.0	0	1	134.0	4.63	2
Total crustacean	0.0	0	0	0.0	0	0	15.1	3.63	9	0.0	0	0	16.6	0	1	23.1	2.32	2
Total other	0.0	0	0	0.0	0	0	0.9	0.44	7	0.0	0	0	0.0	0	1	1.9	1.12	2
Surface temperature	0.0	0	0	30.5	0	1	27.6	1.54	9	0.0	0	0	24.0	0	1	24.9	0.82	5
Midwater temperature	0.0	0	0	26.1	0	1	26.2	0.81	9	0.0	0	0	24.3	0	1	22.5	1.39	5
Bottom temperature	0.0	0	0	26.0	0	1	24.6	0.14	9	0.0	0	0	24.8	0	1	16.6	1.1	5
Surface salinity	0.0	0	0	21.9	0	1	26.7	1.42	9	0.0	0	0	35.2	0	1	34.0	0.99	5
Midwater salinity	0.0	0	0	34.1	0	1	34.6	0.54	9	0.0	0	0	35.6	0	1	36.4	0.08	5
Bottom salinity	0.0	0	0	36.1	0	1	36.2	0.05	9	0.0	0	0	36.4	0	1	36.2	0.15	5
Surface chlorophyll	0.0	0	0	9.4	0	1	8.3	0.71	6	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	0.0	0	0	7.8	0	1	7.4	0.31	9	0.0	0	0	6.8	0	1	6.6	0.12	5
Midwater oxygen	0.0	0	0	0.4	0	1	4.9	0.59	9	0.0	0	0	6.5	0	1	4.8	0.29	5
Bottom oxygen	0.0	0	0	4.3	0	1	4.2	0.4	9	0.0	0	0	5.9	0	1	4.2	0.08	5

Table 18a
 Statistical Zone 14

Summary of dominant organisms taken in statistical zone 14 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	214.7	0.00	0.8	0.00	1	125.3	55.54	1.0	0.54	6	262.4	95.01	2.3	0.73	14
Callinectes similis	1.3	0.00	0.0	0.00	1	38.3	26.02	0.2	0.16	6	73.6	20.31	1.2	0.31	14
Litopenaeus setiferus	89.3	0.00	2.2	0.00	1	52.0	40.46	1.8	1.33	6	38.5	16.50	1.5	0.59	14
Portunus gibbesii	9.3	0.00	0.0	0.00	1	34.0	18.45	0.2	0.09	6	47.9	16.20	0.4	0.13	14
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	1	81.2	50.92	0.2	0.10	6	6.3	3.81	0.0	0.01	14
Squilla spp	40.0	0.00	0.3	0.00	1	3.7	2.44	0.1	0.04	6	8.2	4.50	0.1	0.03	14
Micropogonias undulatus	248.0	0.00	8.8	0.00	1	849.8	435.62	36.9	21.44	6	815.2	281.73	35.6	11.43	14
Leiostomus xanthurus	1.3	0.00	0.1	0.00	1	2.4	1.39	0.2	0.12	6	70.9	44.27	5.3	3.49	14
Prionotus longispinosus	0.0	0.00	0.0	0.00	1	27.0	27.00	0.5	0.54	6	239.7	83.82	6.0	2.10	14
Lagodon rhomboides	4.0	0.00	0.1	0.00	1	8.0	4.59	0.2	0.10	6	77.5	59.45	3.6	2.81	14
Trichiurus lepturus	0.0	0.00	0.0	0.00	1	0.7	0.42	0.0	0.00	6	103.1	79.39	1.8	1.00	14
Cynoscion arenarius	2.7	0.00	0.1	0.00	1	29.0	19.68	1.5	0.77	6	58.9	19.95	5.8	2.23	14
Prionotus roseus	0.0	0.00	0.0	0.00	1	97.7	78.96	1.5	1.35	6	63.1	33.16	1.1	0.55	14
Anchoa hepsetus	0.0	0.00	0.0	0.00	1	39.7	17.55	0.3	0.20	6	85.0	84.69	1.6	1.61	14
Squid spp	8.0	0.00	0.1	0.00	1	19.6	12.50	0.3	0.14	6	37.3	19.94	0.6	0.37	14

Table 18a (continued)

Statistical Zone 14

Summary of dominant organisms taken in statistical zone 14 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	157.4	46.60	3.6	1.09	5	707.1	0.00	16.3	0.00	1	152.7	0.00	4.4	0.00	1
Callinectes similis	22.2	9.66	0.5	0.22	5	621.4	0.00	10.7	0.00	1	0.0	0.00	0.0	0.00	1
Litopenaeus setiferus	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Portunus gibbesii	13.1	8.98	0.1	0.09	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Squilla spp	10.4	5.87	0.1	0.07	5	55.7	0.00	1.0	0.00	1	2.7	0.00	0.0	0.00	1
Micropogonias undulatus	1735.8	299.92	101.7	11.85	5	801.4	0.00	42.0	0.00	1	231.8	0.00	19.2	0.00	1
Leiostomus xanthurus	1044.0	146.99	81.8	14.60	5	201.4	0.00	21.4	0.00	1	30.0	0.00	4.0	0.00	1
Prionotus longispinosus	251.1	63.53	8.5	1.90	5	295.7	0.00	10.8	0.00	1	136.4	0.00	7.5	0.00	1
Lagodon rhomboides	452.1	137.31	26.6	8.19	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Trichiurus lepturus	5.3	3.30	0.3	0.23	5	8.6	0.00	0.4	0.00	1	2.7	0.00	0.4	0.00	1
Cynoscion arenarius	134.8	53.54	14.7	5.00	5	171.4	0.00	27.4	0.00	1	103.6	0.00	16.4	0.00	1
Prionotus roseus	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Anchoa hepsetus	0.0	0.00	0.0	0.00	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1
Squid spp	9.7	9.68	0.0	0.02	5	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	1

Table 18b

Statistical Zone 14

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	17.5	0	1	57.2	27.19	6	102.0	19.96	14	0.0	0	0	179.0	0	1	66.0	0	1
Total finfish	13.5	0	1	58.4	26.57	5	94.8	19.99	14	0.0	0	0	149.0	0	1	59.2	0	1
Total crustacean	3.3	0	1	7.0	3.03	4	5.8	1.24	14	0.0	0	0	29.6	0	1	4.9	0	1
Total other	0.7	0	1	7.7	7.3	3	1.6	0.7	11	0.0	0	0	0.0	0	1	1.9	0	1
Surface temperature	30.7	0	1	28.5	1.5	6	25.3	1	16	0.0	0	0	25.4	0.85	4	26.1	0.37	9
Midwater temperature	30.3	0	1	28.1	1.39	6	24.2	0.53	16	0.0	0	0	25.7	0.74	4	22.3	0.83	9
Bottom temperature	30.1	0	1	25.4	0.89	6	24.0	0.19	16	0.0	0	0	20.9	1.2	4	16.7	0.76	9
Surface salinity	29.9	0	1	27.4	1.23	6	33.5	0.6	16	0.0	0	0	36.1	0.27	4	36.4	0.06	9
Midwater salinity	29.8	0	1	32.5	1.14	6	34.9	0.27	16	0.0	0	0	36.4	0.04	4	36.6	0.02	9
Bottom salinity	29.9	0	1	34.7	0.6	6	35.8	0.14	16	0.0	0	0	36.5	0.07	4	36.2	0.09	9
Surface chlorophyll	2.6	0	1	6.8	1.16	5	2.1	1.32	5	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	4.6	0	1	6.6	0.38	6	6.6	0.28	16	0.0	0	0	6.5	0.07	4	6.4	0.02	9
Midwater oxygen	4.4	0	1	5.9	0.23	6	6.5	0.05	16	0.0	0	0	6.4	0.04	4	5.5	0.28	9
Bottom oxygen	4.1	0	1	2.6	0.93	6	5.0	0.32	16	0.0	0	0	4.5	0.24	4	4.3	0.02	9

Table 19a
 Statistical Zone 15

Summary of dominant organisms taken in statistical zone 15 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm or in depths between 21-30 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	34.8	8.97	0.4	0.21	8	48.0	13.96	0.7	0.25	8
Portunus gibbesii	0.0	0.00	0.0	0.00	0	29.2	15.99	0.1	0.05	8	66.0	30.75	0.4	0.19	8
Callinectes similis	0.0	0.00	0.0	0.00	0	38.3	28.59	0.4	0.35	8	29.4	11.67	0.4	0.17	8
Litopenaeus setiferus	0.0	0.00	0.0	0.00	0	24.6	6.18	1.2	0.36	8	19.8	9.17	0.9	0.42	8
Squilla spp	0.0	0.00	0.0	0.00	0	14.3	6.89	0.1	0.07	8	27.7	10.85	0.3	0.13	8
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	0	10.0	6.89	0.0	0.02	8	17.5	10.50	0.0	0.03	8
Micropogonias undulatus	0.0	0.00	0.0	0.00	0	1620.4	619.00	61.7	24.18	8	817.7	214.28	32.7	8.15	8
Stenotomus caprinus	0.0	0.00	0.0	0.00	0	1.8	1.16	0.0	0.01	8	14.7	10.64	0.5	0.39	8
Anchoa hepsetus	0.0	0.00	0.0	0.00	0	127.9	76.52	1.6	1.07	8	15.3	15.28	0.3	0.27	8
Stellifer lanceolatus	0.0	0.00	0.0	0.00	0	157.0	108.70	2.6	1.83	8	0.0	0.00	0.0	0.00	8
Trichiurus lepturus	0.0	0.00	0.0	0.00	0	80.2	43.07	1.2	0.70	8	5.7	5.39	0.1	0.14	8
Prionotus roseus	0.0	0.00	0.0	0.00	0	62.0	30.98	0.7	0.35	8	19.8	17.81	0.6	0.55	8
Trachurus lathami	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	8
Cynoscion arenarius	0.0	0.00	0.0	0.00	0	41.4	23.71	2.0	0.94	8	30.3	11.72	2.6	0.94	8
Squid spp	0.0	0.00	0.0	0.00	0	20.2	8.27	0.2	0.08	8	1.9	1.41	0.1	0.07	8

Table 19a (continued)

Statistical Zone 15

Summary of dominant organisms taken in statistical zone 15 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm or in depths between 21-30 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	147.8	18.00	5.0	0.27	2	74.5	0.00	3.7	0.00	1
Portunus gibbesii	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Callinectes similis	0.0	0.00	0.0	0.00	0	4.9	4.91	0.1	0.11	2	0.0	0.00	0.0	0.00	1
Litopenaeus setiferus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Squilla spp	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Micropogonias undulatus	0.0	0.00	0.0	0.00	0	2.2	2.18	0.2	0.17	2	0.0	0.00	0.0	0.00	1
Stenotomus caprinus	0.0	0.00	0.0	0.00	0	356.2	126.00	19.5	8.42	2	465.5	0.00	22.9	0.00	1
Anchoa hepsetus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Stellifer lanceolatus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	1
Trichiurus lepturus	0.0	0.00	0.0	0.00	0	22.4	3.82	1.6	0.23	2	6.2	0.00	0.4	0.00	1
Prionotus roseus	0.0	0.00	0.0	0.00	0	73.6	38.73	3.1	1.60	2	0.0	0.00	0.0	0.00	1
Trachurus lathami	0.0	0.00	0.0	0.00	0	160.9	12.55	9.4	1.97	2	271.0	0.00	19.5	0.00	1
Cynoscion arenarius	0.0	0.00	0.0	0.00	0	21.3	21.27	2.6	2.56	2	10.3	0.00	3.0	0.00	1
Squid spp	0.0	0.00	0.0	0.00	0	6.0	6.00	0.1	0.13	2	126.2	0.00	4.1	0.00	1

Table 19b

Statistical Zone 15

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 6 fm or in depths between 21-30 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	0.0	0	0	81.7	26.77	8	52.4	11.72	8	0.0	0	0	62.9	22.96	2	114.0	0	1	
Total finfish	0.0	0	0	77.4	26.4	8	49.1	11.18	8	0.0	0	0	51.5	22.25	2	104.0	0	1	
Total crustacean	0.0	0	0	3.7	1.06	8	3.3	0.57	8	0.0	0	0	5.8	0.44	2	3.9	0	1	
Total other	0.0	0	0	0.6	0.26	7	0.1	0.09	7	0.0	0	0	5.6	0.16	2	6.0	0	1	
Surface temperature	0.0	0	0	30.1	0.26	4	24.3	1.47	8	0.0	0	0	0.0	0	0	27.4	0.14	5	
Midwater temperature	0.0	0	0	29.9	0.24	4	24.1	0.95	8	0.0	0	0	0.0	0	0	25.7	0.84	5	
Bottom temperature	0.0	0	0	28.2	0.75	4	23.8	0.31	8	0.0	0	0	0.0	0	0	18.5	0.38	5	
Surface salinity	0.0	0	0	32.1	0.36	4	33.6	0.43	8	0.0	0	0	0.0	0	0	36.5	0.01	5	
Midwater salinity	0.0	0	0	32.2	0.39	4	35.0	0.24	8	0.0	0	0	0.0	0	0	36.5	0.02	5	
Bottom salinity	0.0	0	0	33.8	0.85	4	36.0	0.12	8	0.0	0	0	0.0	0	0	36.4	0.03	5	
Surface chlorophyll	0.0	0	0	0.7	0.17	4	0.7	0.41	2	0.0	0	0	0.0	0	0	0.0	0	0	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	0.0	0	0	5.9	0.43	4	6.7	0.16	8	0.0	0	0	0.0	0	0	6.3	0.02	5	
Midwater oxygen	0.0	0	0	5.9	0.43	4	6.3	0.24	8	0.0	0	0	0.0	0	0	6.0	0.38	5	
Bottom oxygen	0.0	0	0	3.2	0.39	4	5.4	0.45	8	0.0	0	0	0.0	0	0	4.1	0.11	5	

Table 20a
 Statistical Zone 16

Summary of dominant organisms taken in statistical zone 16 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	1.8	1.82	0.0	0.01	3	9.2	3.66	0.2	0.09	7
Callinectes similis	0.0	0.00	0.0	0.00	0	114.7	52.22	0.5	0.21	3	91.6	15.76	0.9	0.18	7
Litopenaeus setiferus	0.0	0.00	0.0	0.00	0	185.1	26.68	5.3	1.29	3	65.4	21.10	2.6	0.79	7
Squilla spp	0.0	0.00	0.0	0.00	0	66.6	17.97	0.6	0.18	3	37.0	19.47	0.4	0.22	7
Portunus gibbesii	0.0	0.00	0.0	0.00	0	17.8	8.99	0.1	0.04	3	54.2	11.96	0.3	0.06	7
Trachypenaeus similis	0.0	0.00	0.0	0.00	0	30.5	30.48	0.1	0.08	3	32.2	17.91	0.1	0.05	7
Micropogonias undulatus	0.0	0.00	0.0	0.00	0	1003.1	791.55	35.9	27.99	3	1844.0	156.58	69.8	5.01	7
Stenotomus caprinus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	3	7.3	3.02	0.1	0.06	7
Prionotus roseus	0.0	0.00	0.0	0.00	0	4.0	2.24	0.1	0.05	3	76.8	15.71	2.7	0.73	7
Trachurus lathamii	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	7
Serranus atrobranchus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	7
Centropristis philadelphia	0.0	0.00	0.0	0.00	0	2.2	1.24	0.0	0.02	3	14.0	5.65	0.4	0.16	7
Larimus fasciatus	0.0	0.00	0.0	0.00	0	2.6	2.58	0.1	0.10	3	43.1	9.14	2.2	0.51	7
Cynoscion nothus	0.0	0.00	0.0	0.00	0	14.2	7.27	0.7	0.40	3	6.9	3.87	0.5	0.33	7
Squid spp	0.0	0.00	0.0	0.00	0	7.9	2.96	0.1	0.04	3	4.6	1.89	0.1	0.05	7

Table 20a (continued)

Statistical Zone 16

Summary of dominant organisms taken in statistical zone 16 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 6 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	100.1	27.61	3.8	0.89	4	294.4	55.56	10.4	1.50	2	117.2	11.61	5.4	0.45	2
Callinectes similis	14.9	8.84	0.3	0.19	4	7.2	7.22	0.2	0.16	2	0.0	0.00	0.0	0.00	2
Litopenaeus setiferus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	2
Squilla spp	5.8	4.60	0.1	0.11	4	2.8	2.78	0.0	0.02	2	2.2	2.22	0.0	0.01	2
Portunus gibbesii	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	2
Trachypenaeus similis	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	2
Micropogonias undulatus	149.9	36.39	11.0	2.81	4	23.9	9.44	2.0	0.90	2	2.2	2.22	0.3	0.29	2
Stenotomus caprinus	198.2	56.11	8.4	2.46	4	50.6	11.67	2.4	0.66	2	116.9	92.41	5.2	4.34	2
Prionotus roseus	38.8	18.67	1.8	0.94	4	30.6	8.33	1.5	0.33	2	23.1	11.37	1.4	0.60	2
Trachurus lathamii	47.0	33.00	2.1	1.45	4	0.0	0.00	0.0	0.00	2	221.3	204.59	11.0	9.72	2
Serranus atrobranchus	6.8	6.77	0.1	0.05	4	71.7	18.33	0.5	0.16	2	180.3	168.59	1.3	1.17	2
Centropristis philadelphica	48.7	26.35	2.1	0.92	4	86.7	2.22	6.0	0.40	2	13.3	13.33	1.1	1.14	2
Larimus fasciatus	7.5	7.50	0.6	0.58	4	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	2
Cynoscion nothus	47.9	43.35	4.0	3.56	4	5.6	5.56	0.7	0.65	2	0.0	0.00	0.0	0.00	2
Squid spp	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	2	14.3	12.06	1.1	0.92	2

Table 20b

Statistical Zone 16

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 6 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	0.0	0	0	54.2	26.15	3	87.3	4.85	7	0.0	0	0	45.5	2.39	2	47.1	13.51	2	
Total finfish	0.0	0	0	47.5	24.73	3	82.5	4.28	7	0.0	0	0	28.7	3.78	2	32.8	17.25	2	
Total crustacean	0.0	0	0	6.7	1.63	3	4.6	0.92	7	0.0	0	0	11.0	1.78	2	5.7	0.41	2	
Total other	0.0	0	0	0.1	0.07	3	0.1	0.05	7	0.0	0	0	5.8	0.39	2	8.5	4.14	2	
Surface temperature	0.0	0	0	20.7	0	1	0.0	0	0	0.0	0	0	27.6	0	1	28.2	0	1	
Midwater temperature	0.0	0	0	20.8	0	1	0.0	0	0	0.0	0	0	27.7	0	1	28.1	0	1	
Bottom temperature	0.0	0	0	20.9	0	1	0.0	0	0	0.0	0	0	21.8	0	1	19.1	0	1	
Surface salinity	0.0	0	0	28.9	0	1	0.0	0	0	0.0	0	0	36.3	0	1	36.6	0	1	
Midwater salinity	0.0	0	0	28.9	0	1	0.0	0	0	0.0	0	0	36.4	0	1	36.6	0	1	
Bottom salinity	0.0	0	0	29.0	0	1	0.0	0	0	0.0	0	0	36.5	0	1	36.5	0	1	
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	0.0	0	0	7.4	0	1	0.0	0	0	0.0	0	0	6.4	0	1	6.3	0	1	
Midwater oxygen	0.0	0	0	7.4	0	1	0.0	0	0	0.0	0	0	6.2	0	1	6.3	0	1	
Bottom oxygen	0.0	0	0	7.3	0	1	0.0	0	0	0.0	0	0	3.4	0	1	4.1	0	1	

Table 21a
 Statistical Zone 17

Summary of dominant organisms taken in statistical zone 17 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Xiphopenaeus kroyeri	1435.4	1055.70	4.4	2.95	13	71.3	70.01	0.2	0.24	10	0.0	0.00	0.0	0.00	14
Farfantepenaeus aztecus	2.3	1.87	0.0	0.01	13	2.9	1.23	0.1	0.04	10	155.6	47.60	3.6	1.14	14
Litopenaeus setiferus	256.2	143.24	1.9	0.65	13	71.0	49.55	1.7	0.82	10	0.1	0.09	0.0	0.00	14
Callinectes similis	16.2	10.51	0.0	0.02	13	15.0	7.19	0.0	0.02	10	42.2	20.67	0.9	0.42	14
Squilla spp	16.6	7.38	0.1	0.06	13	28.1	14.47	0.2	0.12	10	4.1	2.49	0.0	0.02	14
Portunus gibbesii	5.1	3.25	0.0	0.01	13	10.4	5.41	0.0	0.02	10	8.5	2.90	0.1	0.02	14
Micropogonias undulatus	28.6	11.45	1.1	0.42	13	588.9	377.51	29.3	17.35	10	598.1	221.19	36.0	12.30	14
Stenotomus caprinus	0.0	0.00	0.0	0.00	13	20.5	16.34	0.4	0.37	10	543.6	115.94	22.6	5.67	14
Cynoscion nothus	81.2	43.19	0.2	0.13	13	50.5	19.10	0.9	0.53	10	116.6	53.66	8.6	3.87	14
Peprilus burti	0.0	0.00	0.0	0.00	13	0.3	0.27	0.0	0.02	10	100.1	62.42	8.3	5.16	14
Leiostomus xanthurus	1.4	1.00	0.0	0.04	13	4.2	2.22	0.3	0.15	10	100.4	33.83	8.8	2.85	14
Synodus foetens	1.4	1.38	0.1	0.07	13	18.4	16.50	1.2	0.99	10	62.5	13.18	6.2	1.16	14
Stellifer lanceolatus	122.3	37.02	0.8	0.31	13	76.7	68.57	0.5	0.42	10	0.0	0.00	0.0	0.00	14
Larimus fasciatus	2.8	2.77	0.0	0.01	13	27.3	20.29	1.4	1.06	10	24.8	12.66	1.7	0.92	14
Squid spp	54.5	17.39	0.9	0.35	13	22.4	5.78	0.3	0.09	10	3.2	1.45	0.1	0.03	14

Table 21a (continued)

Statistical Zone 17

Summary of dominant organisms taken in statistical zone 17 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Xiphopenaeus kroyeri	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Farfantepenaeus aztecus	144.3	96.65	5.5	3.87	3	32.2	32.22	1.2	1.24	2	140.5	40.21	6.2	1.46	5
Litopenaeus setiferus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Callinectes similis	112.4	47.96	2.8	1.20	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Squilla spp	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	5.7	2.48	0.1	0.04	5
Portunus gibbesii	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Micropogonias undulatus	598.3	51.88	42.6	3.84	3	24.0	16.00	2.1	1.32	2	0.4	0.44	0.0	0.04	5
Stenotomus caprinus	595.2	198.13	29.6	12.74	3	512.7	229.33	22.9	11.52	2	180.3	52.24	8.9	2.60	5
Cynoscion nothus	30.9	3.61	2.3	0.31	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Peprilus burti	54.9	49.03	4.6	4.18	3	11.7	11.67	1.4	1.38	2	9.4	7.62	0.8	0.66	5
Leiostomus xanthurus	64.0	15.65	5.8	1.26	3	19.4	0.56	2.3	0.02	2	1.0	1.00	0.1	0.12	5
Synodus foetens	44.2	16.12	5.7	2.37	3	41.7	8.33	4.8	1.18	2	22.9	7.93	3.4	1.11	5
Stellifer lanceolatus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Larimus fasciatus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	2	0.0	0.00	0.0	0.00	5
Squid spp	0.0	0.00	0.0	0.00	3	2.2	2.22	0.1	0.07	2	4.4	2.25	0.3	0.18	5

Table 21b

Statistical Zone 17

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	14.9	4.44	13	58.9	18.85	10	119.0	28.96	14	0.0	0	0	51.9	3.11	2	58.3	7.92	5
Total finfish	7.1	3.02	13	55.9	18.54	10	114.0	28.79	14	0.0	0	0	50.3	4.46	2	49.6	8.99	5
Total crustacean	6.4	3.1	13	2.6	1.27	9	5.0	1.36	14	0.0	0	0	1.3	1.28	2	7.0	1.69	5
Total other	1.3	0.36	13	0.5	0.22	10	0.1	0.07	14	0.0	0	0	0.3	0.07	2	1.5	0.31	5
Surface temperature	20.1	0.77	13	21.4	0.84	5	24.0	0.4	4	0.0	0	0	27.8	0	1	27.8	0	1
Midwater temperature	20.0	0.71	13	21.3	0.74	5	24.0	0.4	4	0.0	0	0	27.6	0	1	27.8	0	1
Bottom temperature	20.1	0.69	13	21.5	0.71	5	24.0	0.38	4	0.0	0	0	21.7	0	1	20.3	0	1
Surface salinity	23.5	1.51	13	26.7	3.28	5	35.5	0.35	4	0.0	0	0	36.4	0	1	36.3	0	1
Midwater salinity	26.6	0.8	13	29.1	0.91	5	35.5	0.34	4	0.0	0	0	36.4	0	1	36.4	0	1
Bottom salinity	26.1	1.21	13	30.5	0.64	5	35.5	0.33	4	0.0	0	0	36.6	0	1	36.6	0	1
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	8.7	0.19	13	8.3	0.76	5	6.6	0.06	4	0.0	0	0	6.3	0	1	6.3	0	1
Midwater oxygen	8.5	0.17	13	7.8	0.53	5	6.6	0.06	4	0.0	0	0	6.4	0	1	6.3	0	1
Bottom oxygen	8.1	0.16	13	7.4	0.48	5	6.6	0.06	4	0.0	0	0	4.5	0	1	3.9	0	1

Table 22a
 Statistical Zone 18

Summary of dominant organisms taken in statistical zone 18 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	1.3	0.88	0.0	0.00	9	1.7	0.72	0.0	0.00	13	137.6	42.96	3.8	1.26	9
Litopenaeus setiferus	361.3	162.63	3.8	1.79	9	93.3	35.44	1.6	0.60	13	0.0	0.00	0.0	0.00	9
Xiphopenaeus kroyeri	654.0	325.62	2.0	0.94	9	22.4	19.27	0.1	0.05	13	0.0	0.00	0.0	0.00	9
Callinectes similis	3.3	1.45	0.0	0.00	9	23.1	12.35	0.1	0.04	13	19.5	6.31	0.4	0.13	9
Squilla spp	2.7	1.45	0.0	0.01	9	46.2	18.15	0.3	0.11	13	7.6	2.86	0.1	0.04	9
Portunus gibbesii	1.3	0.88	0.0	0.00	9	8.4	3.36	0.0	0.02	13	15.2	7.13	0.1	0.07	9
Stenotomus caprinus	0.0	0.00	0.0	0.00	9	0.1	0.08	0.0	0.00	13	608.4	144.55	18.3	4.73	9
Micropogonias undulatus	2.0	2.00	0.1	0.10	9	25.7	11.77	1.2	0.51	13	265.0	86.09	16.6	5.00	9
Cynoscion nothus	30.0	7.35	0.1	0.02	9	184.4	36.13	1.1	0.37	13	14.2	4.20	1.1	0.31	9
Synodus foetens	0.0	0.00	0.0	0.00	9	0.8	0.49	0.1	0.08	13	114.9	25.98	11.5	2.79	9
Peprilus burti	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	13	85.3	53.82	6.8	4.30	9
Trachurus lathami	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	13	65.5	56.15	3.2	2.81	9
Stellifer lanceolatus	86.7	29.87	0.4	0.09	9	48.2	16.54	0.5	0.21	13	0.0	0.00	0.0	0.00	9
Serranus atrobranchus	0.0	0.00	0.0	0.00	9	0.0	0.00	0.0	0.00	13	17.7	12.56	0.1	0.09	9
Squid spp	7.3	2.96	0.1	0.05	9	64.7	12.87	0.5	0.12	13	17.2	10.15	0.2	0.12	9

Table 22a (continued)

Statistical Zone 18

Summary of dominant organisms taken in statistical zone 18 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 40 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	203.4	47.02	6.9	1.64	6	150.7	0.00	4.1	0.00	1	0.0	0.00	0.0	0.00	0
Litopenaeus setiferus	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Xiphopenaeus kroyeri	4.4	2.31	0.0	0.01	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Callinectes similis	105.7	37.55	2.5	0.83	6	22.0	0.00	0.6	0.00	1	0.0	0.00	0.0	0.00	0
Squilla spp	11.3	5.52	0.2	0.08	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Portunus gibbesii	0.6	0.59	0.0	0.01	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	265.7	195.48	11.2	8.92	6	873.7	0.00	36.3	0.00	1	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	99.6	40.89	7.3	2.94	6	4.4	0.00	0.5	0.00	1	0.0	0.00	0.0	0.00	0
Cynoscion nothus	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Synodus foetens	14.5	5.17	2.1	0.64	6	54.1	0.00	5.7	0.00	1	0.0	0.00	0.0	0.00	0
Peprilus burti	7.6	7.64	0.6	0.60	6	13.2	0.00	1.1	0.00	1	0.0	0.00	0.0	0.00	0
Trachurus lathami	18.2	17.32	1.0	0.88	6	130.2	0.00	4.9	0.00	1	0.0	0.00	0.0	0.00	0
Stellifer lanceolatus	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Serranus atrobranchus	90.1	30.66	0.6	0.22	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0
Squid spp	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	0

Table 22b

Statistical Zone 18

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 40 fm.																			
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm			
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	
Total catch	10.6	3.48	9	10.6	2.27	13	74.3	11.04	9	0.0	0	0	76.1	0	1	0.0	0	0	
Total finfish	1.6	0.3	9	7.3	1.9	13	69.3	11.64	9	0.0	0	0	70.7	0	1	0.0	0	0	
Total crustacean	6.0	2.68	9	2.5	0.71	12	4.7	1.46	9	0.0	0	0	4.7	0	1	0.0	0	0	
Total other	3.1	0.96	9	1.2	0.2	13	0.2	0.11	9	0.0	0	0	0.6	0	1	0.0	0	0	
Surface temperature	20.7	0.8	9	22.0	0.64	11	24.2	0.23	3	0.0	0	0	27.0	1.3	2	0.0	0	0	
Midwater temperature	20.7	0.79	9	22.3	0.71	11	24.3	0.23	3	0.0	0	0	27.3	0.9	2	0.0	0	0	
Bottom temperature	20.8	0.82	9	22.5	0.73	11	25.2	0.62	3	0.0	0	0	22.8	1.51	2	0.0	0	0	
Surface salinity	26.2	1.22	9	28.2	0.6	11	34.5	0.72	3	0.0	0	0	36.1	0.28	2	0.0	0	0	
Midwater salinity	28.2	0.2	9	29.4	0.51	10	34.9	0.38	3	0.0	0	0	36.4	0.08	2	0.0	0	0	
Bottom salinity	28.5	0.25	9	29.8	0.41	11	35.6	0.34	3	0.0	0	0	36.6	0.06	2	0.0	0	0	
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	
Surface oxygen	7.6	0.19	9	7.4	0.15	11	6.7	0.18	3	0.0	0	0	6.3	0.1	2	0.0	0	0	
Midwater oxygen	7.5	0.21	9	6.9	0.2	11	6.6	0.12	3	0.0	0	0	6.3	0	2	0.0	0	0	
Bottom oxygen	7.4	0.24	9	6.2	0.34	11	6.0	0.18	3	0.0	0	0	5.2	0.25	2	0.0	0	0	

Table 23a
 Statistical Zone 19

Summary of dominant organisms taken in statistical zone 19 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 30 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Trachypenaeus constrictus	69.1	35.65	0.1	0.06	8	409.5	143.34	0.8	0.32	15	316.5	135.70	0.7	0.30	13
Farfantepenaeus aztecus	6.1	4.46	0.1	0.06	8	34.6	13.86	0.5	0.28	15	130.2	26.64	3.2	0.77	13
Litopenaeus setiferus	252.3	93.62	3.5	1.55	8	105.2	34.77	2.4	0.68	15	1.6	1.14	0.1	0.05	13
Callinectes similis	1.6	1.10	0.0	0.01	8	51.2	12.22	0.2	0.04	15	81.2	40.23	0.9	0.30	13
Squilla spp	11.5	4.39	0.1	0.05	8	55.0	12.03	0.4	0.12	15	36.4	17.15	0.4	0.19	13
Portunus gibbesii	21.1	8.43	0.1	0.05	8	16.0	3.60	0.1	0.02	15	42.4	15.23	0.2	0.07	13
Stenotomus caprinus	0.6	0.63	0.0	0.00	8	1.3	0.59	0.0	0.01	15	358.9	121.51	8.0	3.18	13
Chloroscombrus chrysurus	143.3	99.43	1.4	0.83	8	1.8	0.87	0.0	0.01	15	336.0	155.40	10.6	4.44	13
Cynoscion nothus	390.7	151.79	2.2	0.83	8	343.5	89.71	2.0	0.56	15	167.7	134.49	10.4	8.17	13
Stellifer lanceolatus	490.4	210.20	8.0	3.75	8	568.7	205.36	9.4	3.22	15	0.0	0.00	0.0	0.00	13
Syacium gunteri	6.1	5.58	0.1	0.07	8	68.6	14.49	0.8	0.15	15	238.4	48.89	3.3	0.56	13
Micropogonias undulatus	3.6	3.04	0.1	0.10	8	13.1	6.18	0.6	0.27	15	213.3	100.50	12.6	5.81	13
Diplectrum bivittatum	1.9	1.88	0.0	0.02	8	5.0	4.97	0.1	0.06	15	104.3	29.94	1.4	0.38	13
Synodus foetens	0.0	0.00	0.0	0.00	8	2.7	1.09	0.3	0.13	15	49.4	14.15	3.9	1.17	13
Squid spp	30.7	7.15	0.2	0.06	8	39.6	7.58	0.3	0.05	15	16.7	6.67	0.3	0.08	13

Table 23a (continued)

Statistical Zone 19

Summary of dominant organisms taken in statistical zone 19 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths greater than 30 fm.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Trachypenaeus constrictus	37.9	25.33	0.2	0.11	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Farfantepenaeus aztecus	143.3	83.69	4.9	2.87	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Litopenaeus setiferus	0.2	0.16	0.0	0.00	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Callinectes similis	104.8	40.71	2.4	0.94	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Squilla spp	10.8	6.75	0.1	0.06	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Portunus gibbesii	1.2	1.25	0.0	0.01	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Stenotomus caprinus	425.5	228.93	11.1	5.11	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Chloroscombrus chrysurus	224.7	136.33	10.1	6.08	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Cynoscion nothus	0.0	0.00	0.0	0.00	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Stellifer lanceolatus	0.0	0.00	0.0	0.00	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Syacium gunteri	106.3	39.42	2.1	0.87	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Micropogonias undulatus	143.4	82.58	10.2	5.69	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Diplectrum bivittatum	20.6	14.37	0.4	0.24	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Synodus foetens	77.3	20.40	8.4	1.88	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0
Squid spp	2.0	1.22	0.0	0.04	7	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0

Table 23b

Statistical Zone 19

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths greater than 30 fm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	38.8	12.12	8	28.3	5.9	15	69.7	21.46	13	0.0	0	0	0.0	0	0	0.0	0	0
Total finfish	33.6	11.04	8	22.0	5.29	15	63.4	22.03	13	0.0	0	0	0.0	0	0	0.0	0	0
Total crustacean	5.9	1.85	6	4.4	0.68	15	5.7	1.08	13	0.0	0	0	0.0	0	0	0.0	0	0
Total other	0.9	0.23	8	1.8	0.56	15	0.6	0.15	13	0.0	0	0	0.0	0	0	0.0	0	0
Surface temperature	22.4	0.62	8	22.9	0.28	16	24.0	0.21	14	0.0	0	0	0.0	0	0	0.0	0	0
Midwater temperature	22.5	0.72	8	23.3	0.37	16	24.7	0.27	14	0.0	0	0	0.0	0	0	0.0	0	0
Bottom temperature	23.0	0.8	8	24.3	0.41	16	26.1	0.18	14	0.0	0	0	0.0	0	0	0.0	0	0
Surface salinity	30.2	0.84	8	30.8	0.42	16	32.1	0.32	14	0.0	0	0	0.0	0	0	0.0	0	0
Midwater salinity	30.4	0.89	8	31.8	0.5	16	33.5	0.4	14	0.0	0	0	0.0	0	0	0.0	0	0
Bottom salinity	31.1	0.98	8	33.0	0.53	16	35.8	0.16	14	0.0	0	0	0.0	0	0	0.0	0	0
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	8.8	0.75	8	8.9	0.37	16	7.5	0.24	14	0.0	0	0	0.0	0	0	0.0	0	0
Midwater oxygen	7.4	0.74	8	7.5	0.36	16	6.9	0.14	14	0.0	0	0	0.0	0	0	0.0	0	0
Bottom oxygen	6.5	0.7	8	6.8	0.54	16	6.0	0.13	14	0.0	0	0	0.0	0	0	0.0	0	0

Table 24a
 Statistical Zone 20

Summary of dominant organisms taken in statistical zone 20 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	4	22.4	8.41	0.3	0.12	16	253.9	45.60	6.0	1.20	17
Trachypenaeus constrictus	117.0	115.01	0.2	0.16	4	28.7	17.05	0.0	0.02	16	150.4	52.60	0.3	0.13	17
Squilla spp	19.5	19.50	0.3	0.28	4	38.8	17.79	0.5	0.22	16	95.3	26.38	1.0	0.29	17
Sicyonia dorsalis	0.0	0.00	0.0	0.00	4	0.5	0.47	0.0	0.00	16	1.4	0.76	0.0	0.00	17
Callinectes similis	7.5	7.50	0.1	0.09	4	5.0	1.63	0.0	0.02	16	43.8	8.61	0.7	0.16	17
Portunus gibbesii	12.0	12.00	0.1	0.05	4	41.6	19.16	0.2	0.10	16	93.9	22.78	0.6	0.14	17
Stenotomus caprinus	0.0	0.00	0.0	0.00	4	32.4	9.60	0.4	0.13	16	182.0	80.42	3.0	1.28	17
Chloroscombrus chrysurus	117.0	88.27	0.9	0.70	4	405.2	192.97	3.1	1.07	16	158.2	57.06	3.3	1.31	17
Syacium gunteri	1.5	1.50	0.0	0.02	4	68.7	32.21	0.7	0.34	16	255.8	49.40	2.8	0.50	17
Serranus atrobranchus	0.0	0.00	0.0	0.00	4	0.0	0.00	0.0	0.00	16	36.9	26.87	0.3	0.23	17
Cynoscion nothus	831.0	571.60	3.8	2.18	4	227.9	167.55	2.2	1.64	16	82.4	30.73	2.4	1.35	17
Cynoscion spp.	0.0	0.00	0.0	0.00	4	126.4	62.83	0.4	0.21	16	73.0	49.69	0.8	0.69	17
Diplectrum bivittatum	12.0	12.00	0.1	0.09	4	28.3	9.95	0.3	0.11	16	119.2	41.25	1.6	0.55	17
Micropogonias undulatus	4.5	2.87	0.3	0.15	4	12.2	9.23	1.0	0.78	16	85.1	18.27	5.6	1.18	17
Squid spp	219.0	111.43	1.3	0.67	4	130.3	31.50	1.2	0.29	16	62.0	17.88	0.5	0.15	17

Table 24a (continued)

Statistical Zone 20

Summary of dominant organisms taken in statistical zone 20 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	165.0	40.88	5.1	1.30	8	108.7	44.53	3.6	1.53	6	105.0	0.00	5.1	0.00	1
Trachypenaeus constrictus	331.4	167.12	1.3	0.58	8	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1
Squilla spp	89.0	45.94	0.6	0.28	8	17.3	11.96	0.2	0.13	6	5.0	0.00	0.1	0.00	1
Sicyonia dorsalis	273.2	97.78	0.8	0.21	8	22.1	17.78	0.1	0.08	6	0.0	0.00	0.0	0.00	1
Callinectes similis	119.8	24.74	3.1	0.73	8	73.5	37.07	2.0	0.98	6	30.0	0.00	0.8	0.00	1
Portunus gibbesii	3.3	2.58	0.0	0.01	8	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1
Stenotomus caprinus	266.5	156.29	4.8	2.80	8	321.0	272.29	8.3	5.91	6	70.0	0.00	2.9	0.00	1
Chloroscombrus chrysurus	120.9	86.29	5.0	3.59	8	6.7	6.73	0.3	0.35	6	0.0	0.00	0.0	0.00	1
Syacium gunteri	170.8	39.30	3.2	0.83	8	15.2	5.96	0.4	0.17	6	0.0	0.00	0.0	0.00	1
Serranus atrobranchus	247.7	79.50	2.0	0.60	8	127.5	53.65	1.2	0.48	6	52.5	0.00	0.6	0.00	1
Cynoscion nothus	3.2	2.16	0.2	0.16	8	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1
Cynoscion spp.	0.0	0.00	0.0	0.00	8	0.0	0.00	0.0	0.00	6	0.0	0.00	0.0	0.00	1
Diplectrum bivittatum	95.1	49.93	1.4	0.66	8	2.6	2.56	0.1	0.05	6	0.0	0.00	0.0	0.00	1
Micropogonias undulatus	23.6	10.15	1.9	0.79	8	6.6	4.94	0.6	0.39	6	0.0	0.00	0.0	0.00	1
Squid spp	5.8	3.26	0.0	0.03	8	18.6	11.66	0.6	0.20	6	5.0	0.00	0.5	0.00	1

Table 24b

Statistical Zone 20

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	375.0	344.3	4	27.8	8.75	16	40.7	5.01	17	0.0	0	0	44.5	9.03	6	58.0	0	1
Total finfish	369.0	345.6	4	24.2	8.7	16	30.8	4.62	17	0.0	0	0	34.5	9.95	6	51.3	0	1
Total crustacean	1.7	1.28	4	1.8	0.81	15	9.1	1.63	17	0.0	0	0	6.3	2.82	6	6.0	0	1
Total other	3.6	1.22	4	1.7	0.29	16	0.7	0.17	17	0.0	0	0	3.6	2.32	6	0.8	0	1
Surface temperature	22.8	0.96	4	25.1	0.47	16	25.9	0.49	18	0.0	0	0	27.4	0.34	5	27.5	0.35	5
Midwater temperature	23.0	1.06	4	25.1	0.47	16	25.9	0.46	18	0.0	0	0	27.4	0.35	5	25.6	1.05	5
Bottom temperature	23.5	1.37	4	25.6	0.47	16	26.3	0.43	18	0.0	0	0	22.6	0.33	5	20.8	1.03	5
Surface salinity	32.1	0.35	4	33.0	0.32	16	32.9	0.26	18	0.0	0	0	36.4	0.08	5	36.5	0.03	5
Midwater salinity	32.7	0.8	4	33.1	0.32	16	33.6	0.25	18	0.0	0	0	36.5	0.02	5	36.5	0.03	5
Bottom salinity	33.1	0.87	4	34.1	0.32	16	34.4	0.26	18	0.0	0	0	36.6	0.01	5	36.1	0.45	5
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	9.4	1.23	4	8.3	0.38	16	7.3	0.38	18	0.0	0	0	6.3	0.07	5	6.3	0.05	5
Midwater oxygen	7.0	0.47	4	7.5	0.23	16	6.4	0.11	18	0.0	0	0	6.4	0.07	5	6.4	0.16	5
Bottom oxygen	6.0	0.36	4	6.2	0.19	16	6.0	0.14	18	0.0	0	0	5.6	0.33	5	4.8	0.36	5

Table 25a
 Statistical Zone 21

Summary of dominant organisms taken in statistical zone 21 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	2.0	2.00	0.0	0.02	3	57.5	34.30	0.7	0.34	13	310.5	115.24	5.6	2.43	12
Trachypenaeus similis	0.0	0.00	0.0	0.00	3	0.9	0.92	0.0	0.00	13	135.3	53.09	0.5	0.22	12
Sicyonia dorsalis	0.0	0.00	0.0	0.00	3	0.5	0.46	0.0	0.00	13	93.3	60.80	0.4	0.23	12
Squilla spp	2.0	2.00	0.0	0.01	3	7.4	4.18	0.0	0.02	13	85.6	37.89	0.9	0.41	12
Trachypenaeus constrictus	4.0	4.00	0.0	0.01	3	46.4	25.21	0.1	0.04	13	21.0	21.03	0.1	0.07	12
Callinectes similis	0.0	0.00	0.0	0.00	3	1.9	1.48	0.1	0.07	13	31.9	11.68	1.1	0.46	12
Stenotomus caprinus	0.0	0.00	0.0	0.00	3	100.2	39.54	1.4	0.55	13	415.1	111.18	7.7	2.09	12
Syacium gunteri	2.0	2.00	0.0	0.02	3	30.4	16.42	0.6	0.24	13	241.6	123.05	3.3	1.20	12
Chloroscombrus chrysurus	16.0	16.00	0.3	0.31	3	379.8	263.36	1.5	0.75	13	20.2	9.94	0.5	0.28	12
Serranus atrobranchus	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	13	37.2	17.43	0.4	0.22	12
Eucinostomus gula	20.0	20.00	0.2	0.20	3	63.9	42.92	0.9	0.67	13	90.2	54.06	1.5	0.91	12
Cyclopsetta chittendeni	0.0	0.00	0.0	0.00	3	0.5	0.46	0.0	0.02	13	43.7	16.95	1.5	0.58	12
Diplectrum bivittatum	0.0	0.00	0.0	0.00	3	18.4	8.78	0.2	0.11	13	54.2	24.52	0.9	0.39	12
Trachurus lathami	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	13	0.0	0.00	0.0	0.00	12
Squid spp	44.0	14.42	0.3	0.05	3	18.9	9.39	0.2	0.08	13	18.1	5.86	0.1	0.04	12

Table 25a (continued)

Statistical Zone 21

Summary of dominant organisms taken in statistical zone 21 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken.

SPECIES	21-30 fm					31-40 fm					>40 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	24.0	0.00	0.7	0.00	1	128.7	22.82	4.4	1.12	3	170.4	0.00	5.7	0.00	1
Trachypenaeus similis	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	1
Sicyonia dorsalis	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	1
Squilla spp	0.0	0.00	0.0	0.00	1	18.1	18.08	0.2	0.18	3	8.4	0.00	0.1	0.00	1
Trachypenaeus constrictus	0.0	0.00	0.0	0.00	1	8.1	8.08	0.1	0.05	3	0.0	0.00	0.0	0.00	1
Callinectes similis	0.0	0.00	0.0	0.00	1	25.8	25.77	1.0	0.96	3	0.0	0.00	0.0	0.00	1
Stenotomus caprinus	234.0	0.00	4.8	0.00	1	675.2	394.97	14.7	8.30	3	634.8	0.00	18.3	0.00	1
Syacium gunteri	66.0	0.00	0.9	0.00	1	8.2	3.37	0.2	0.07	3	34.8	0.00	1.0	0.00	1
Chloroscombrus chrysurus	90.0	0.00	1.7	0.00	1	13.1	13.09	0.7	0.68	3	0.0	0.00	0.0	0.00	1
Serranus atrobranchus	0.0	0.00	0.0	0.00	1	308.4	246.76	3.3	2.49	3	172.8	0.00	2.8	0.00	1
Eucinostomus gula	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	1
Cyclopsetta chittendeni	0.0	0.00	0.0	0.00	1	16.8	13.14	1.3	1.09	3	0.0	0.00	0.0	0.00	1
Diplectrum bivittatum	0.0	0.00	0.0	0.00	1	0.0	0.00	0.0	0.00	3	0.0	0.00	0.0	0.00	1
Trachurus lathami	0.0	0.00	0.0	0.00	1	69.3	68.21	1.9	1.84	3	355.2	0.00	12.8	0.00	1
Squid spp	90.0	0.00	0.9	0.00	1	58.9	36.03	0.9	0.47	3	24.0	0.00	1.2	0.00	1

Table 25b
 Statistical Zone 21

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	16.2	15.02	3	24.4	9.49	13	42.5	9.01	12	0.0	0	0	60.3	8.49	3	85.0	0	1
Total finfish	45.6	0	1	21.4	8.62	13	31.3	6.75	12	0.0	0	0	50.3	10.1	3	76.3	0	1
Total crustacean	0.6	0	1	3.1	1.35	10	10.2	3	12	0.0	0	0	7.3	3.74	3	6.5	0	1
Total other	1.0	0.72	3	0.6	0.32	13	1.1	0.47	12	0.0	0	0	2.7	0.43	3	2.2	0	1
Surface temperature	24.5	1.81	3	25.6	0.64	13	27.0	0.44	12	0.0	0	0	28.3	0.07	2	28.3	0.14	4
Midwater temperature	24.4	1.84	3	25.5	0.64	13	27.0	0.44	12	0.0	0	0	28.0	0.02	2	24.5	0.25	4
Bottom temperature	24.3	1.82	3	25.5	0.64	13	27.1	0.4	12	0.0	0	0	23.1	0.33	2	20.8	0.36	4
Surface salinity	34.3	0.98	3	33.7	0.47	13	34.6	0.46	12	0.0	0	0	35.5	0.13	2	36.4	0.04	4
Midwater salinity	34.4	0.96	3	34.1	0.35	13	34.9	0.34	12	0.0	0	0	36.4	0.01	2	36.5	0.02	4
Bottom salinity	34.4	0.98	3	34.4	0.37	13	35.4	0.29	12	0.0	0	0	36.5	0	2	36.5	0.01	4
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	6.3	0.17	3	6.3	0.06	13	6.3	0.05	12	0.0	0	0	6.5	0.05	2	6.4	0.05	4
Midwater oxygen	6.3	0.07	3	6.2	0.06	13	6.2	0.07	12	0.0	0	0	6.4	0.15	2	7.0	0.13	4
Bottom oxygen	6.2	0.06	3	5.7	0.13	13	5.4	0.24	12	0.0	0	0	5.7	0.05	2	4.4	0.26	4

Table 26a
 Statistical Zone 22

Summary of dominant organisms taken in statistical zone 22 during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. The mean number (NUM) of organisms per hour, the standard error of the mean (SEM) for numbers, the mean weight (WT) in kg per hour, the SEM for weight and the number (N) of samples taken. No trawl samples were taken in depths less than 11 fm or greater than 20 fm.

SPECIES	0-5 fm					6-10 fm					11-20 fm				
	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N	NUM	SEM	WT	SEM	N
Farfantepenaeus aztecus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	6.0	0.00	0.1	0.00	1
Stenotomus caprinus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	456.0	0.00	7.3	0.00	1
Eucinostomus argenteus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	36.0	0.00	0.5	0.00	1
Chloroscombrus chrysurus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	18.0	0.00	0.3	0.00	1
Lutjanus campechanus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	12.0	0.00	0.2	0.00	1
Halieutichthys aculeatus	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	6.0	0.00	0.0	0.00	1
Lagodon rhomboides	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	6.0	0.00	0.3	0.00	1
Squid spp	0.0	0.00	0.0	0.00	0	0.0	0.00	0.0	0.00	0	30.0	0.00	0.4	0.00	1

Table 26b

Statistical Zone 22

Summary of mean total catch and environmental data (X), the standard error of the mean (SEM) and the number (n) of samples taken during the 2006 Fall Shrimp/Groundfish Survey by depth stratum, collected with either a 40-ft or 20-ft trawl. Catch values in kg per hour, temperature in °C, salinity in ppt, chlorophyll in mg/m ³ , and oxygen in ppm. No trawl samples were taken in depths less than 11 fm or greater than 20 fm.																		
Environmental category	0-5 fm			6-10 fm			11-20 fm			21-30 fm			31-40 fm			Over 40 fm		
	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n	X	SEM	n
Total catch	0.0	0	0	0.0	0	0	9.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Total finfish	0.0	0	0	0.0	0	0	8.4	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Total crustacean	0.0	0	0	0.0	0	0	0.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Total other	0.0	0	0	0.0	0	0	0.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Surface temperature	0.0	0	0	0.0	0	0	25.0	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Midwater temperature	0.0	0	0	0.0	0	0	25.3	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Bottom temperature	0.0	0	0	0.0	0	0	26.8	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Surface salinity	0.0	0	0	0.0	0	0	33.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Midwater salinity	0.0	0	0	0.0	0	0	33.9	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Bottom salinity	0.0	0	0	0.0	0	0	35.1	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Surface chlorophyll	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface fluorescence	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0
Surface oxygen	0.0	0	0	0.0	0	0	6.3	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Midwater oxygen	0.0	0	0	0.0	0	0	6.5	0	1	0.0	0	0	0.0	0	0	0.0	0	0
Bottom oxygen	0.0	0	0	0.0	0	0	4.6	0	1	0.0	0	0	0.0	0	0	0.0	0	0

Table 27. 2006 ReeffishSurvey species composition list, 60 trap stations where a fish trap was used.

Species with a total weight of less than 0.0227 kg (0.05 lb) are indicated on the table as 0.0 kg.

GENUS/SPECIES	COMMON NAME	TOTAL NUMBER CAUGHT	TOTAL WEIGHT CAUGHT (KG)	NUMBER OF TOWS WHERE CAUGHT	% FREQUENCY OCCURRENCE
<u>Finfishes</u>					
Rhomboplites aurorubens	vermilion snapper	210	86.0	10	1.5
Lutjanus campechanus	red snapper	139	99.4	15	2.3
Pagrus pagrus	red porgy	45	18.1	13	2.0
Epinephelus morio	red grouper	24	52.7	11	1.7
Balistes capriscus	gray triggerfish	6	5.4	4	0.6
Lutjanus synagris	lane snapper	6	1.7	2	0.3
Centropristis ocyura	bank sea bass	5	0.7	2	0.3
Seriola dumerili	greater amberjack	4	10.1	2	0.3
Calamus leucosteus	whitebone porgy	3	1.0	2	0.3
Mycteroperca phenax	scamp	3	1.8	2	0.3
Calamus nodosus	knobbed porgy	2	1.1	2	0.3
Holacanthus bermudensis	blue angelfish	2	1.3	2	0.3
Lagodon rhomboides	pinfish	2	0.4	1	0.2
Mycteroperca microlepis	gag	2	20.8	2	0.3
Calamus calamus	saucereye porgy	1	0.3	1	0.2
Caulolatilus chrysops	goldface tilefish	1	1.1	1	0.2
Centropristis philadelphica	rock sea bass	1	0.1	1	0.2
Equetus umbrosus	cubbyu	1	0.3	1	0.2
Muraena retifera	reticulate moray	1	1.0	1	0.2
Opsanus pardus	leopard toadfish	1	2.1	1	0.2
Stenotomus caprinus	longspine porgy	1	0.0	1	0.2
Syacium gunteri	shoal flounder	1	0.1	1	0.2

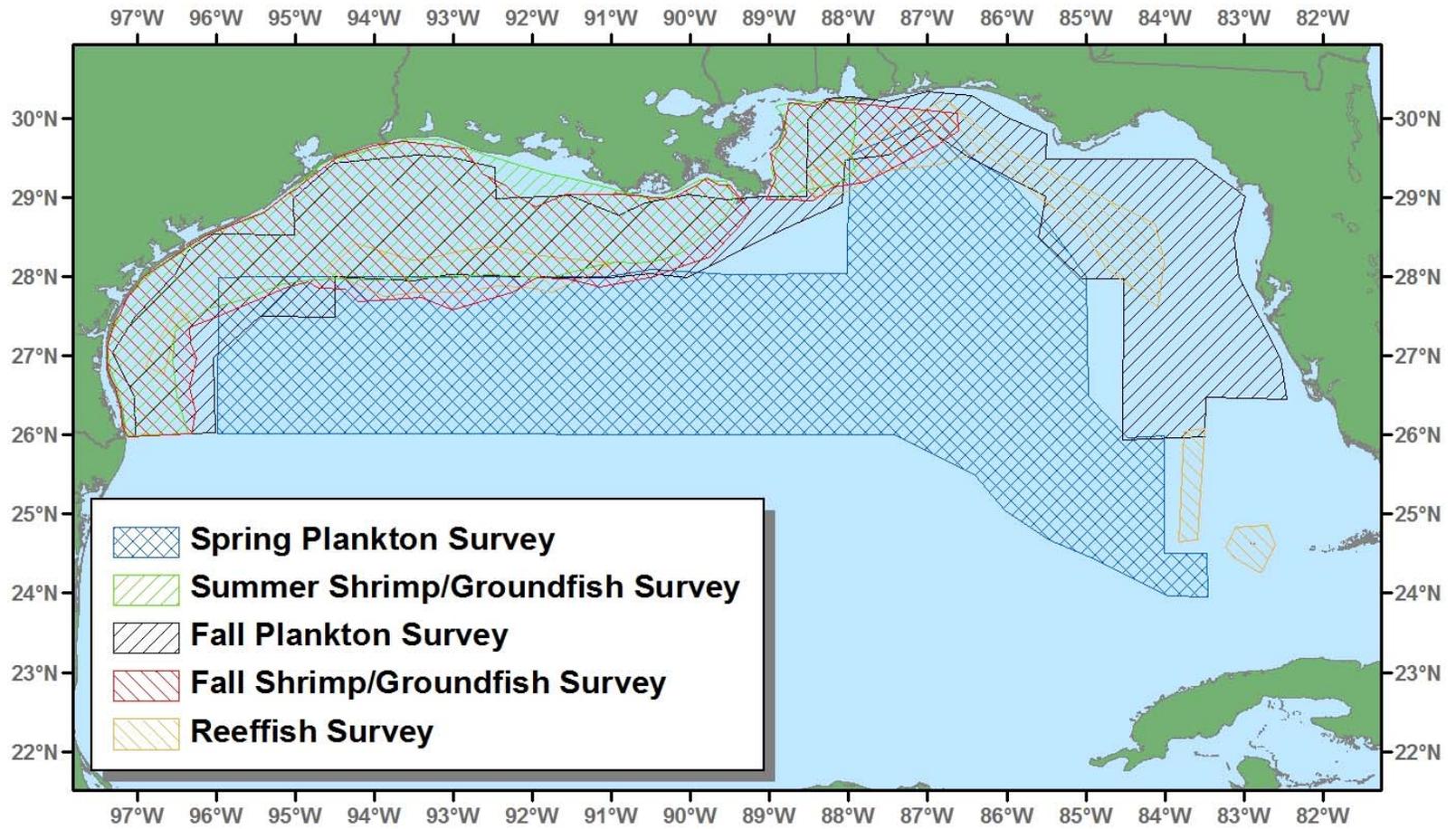


Figure 1. 2006 SEAMAP Surveys, Gulf of Mexico.

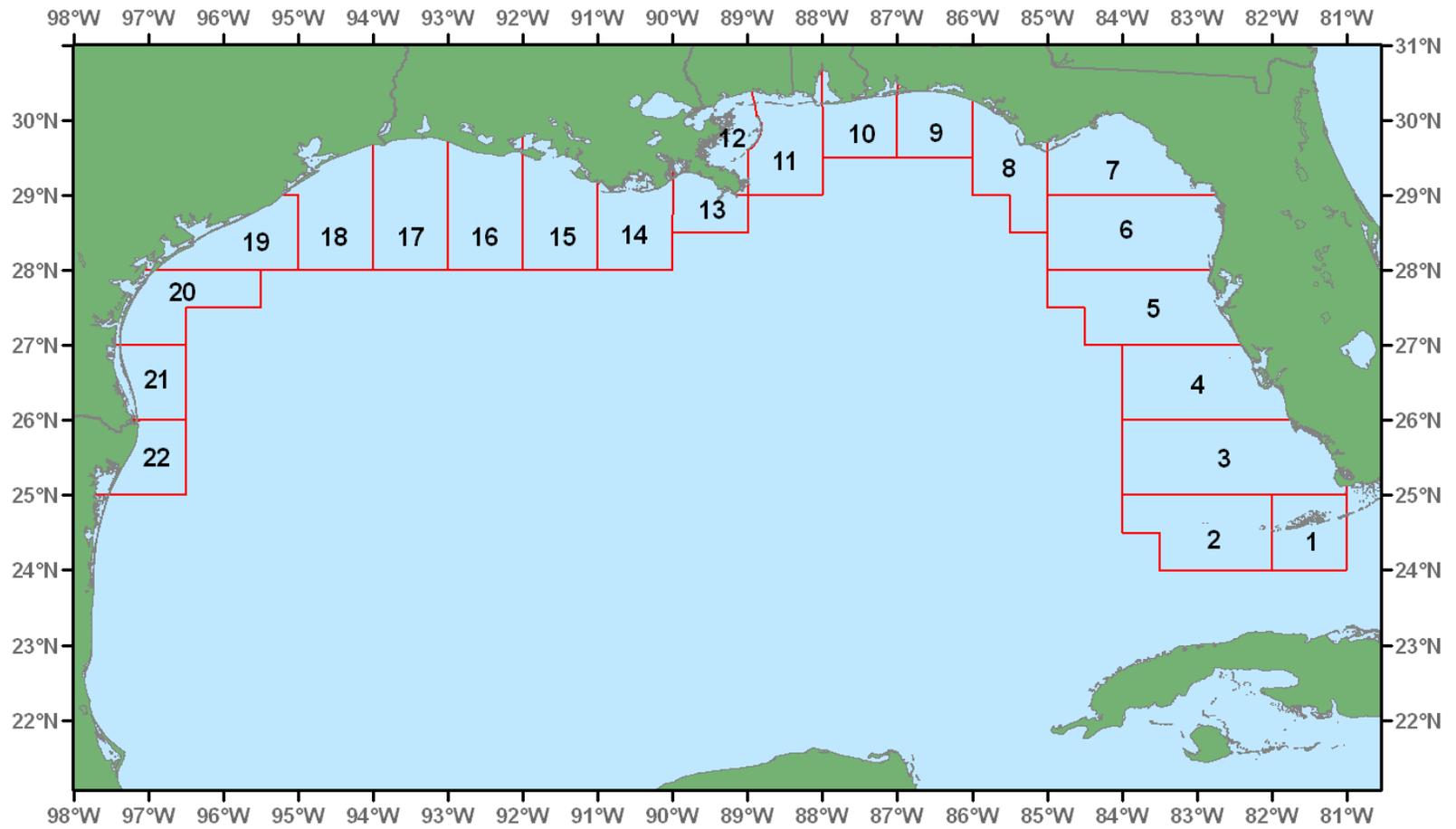


Figure 2. Statistical zones for shrimp in the Gulf of Mexico.

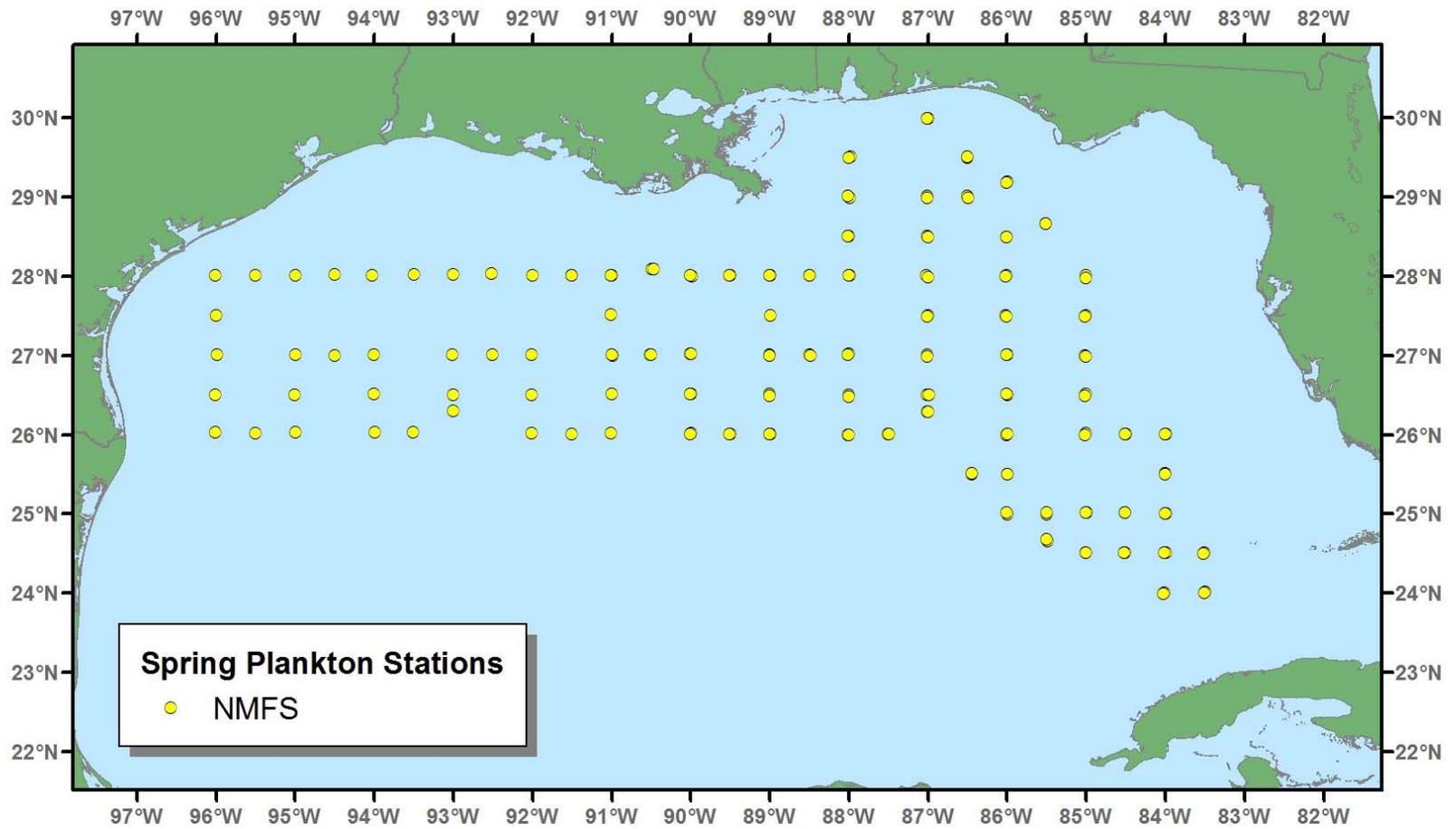


Figure 3. Locations of plankton and environmental stations during the 2006 Spring Plankton Survey.

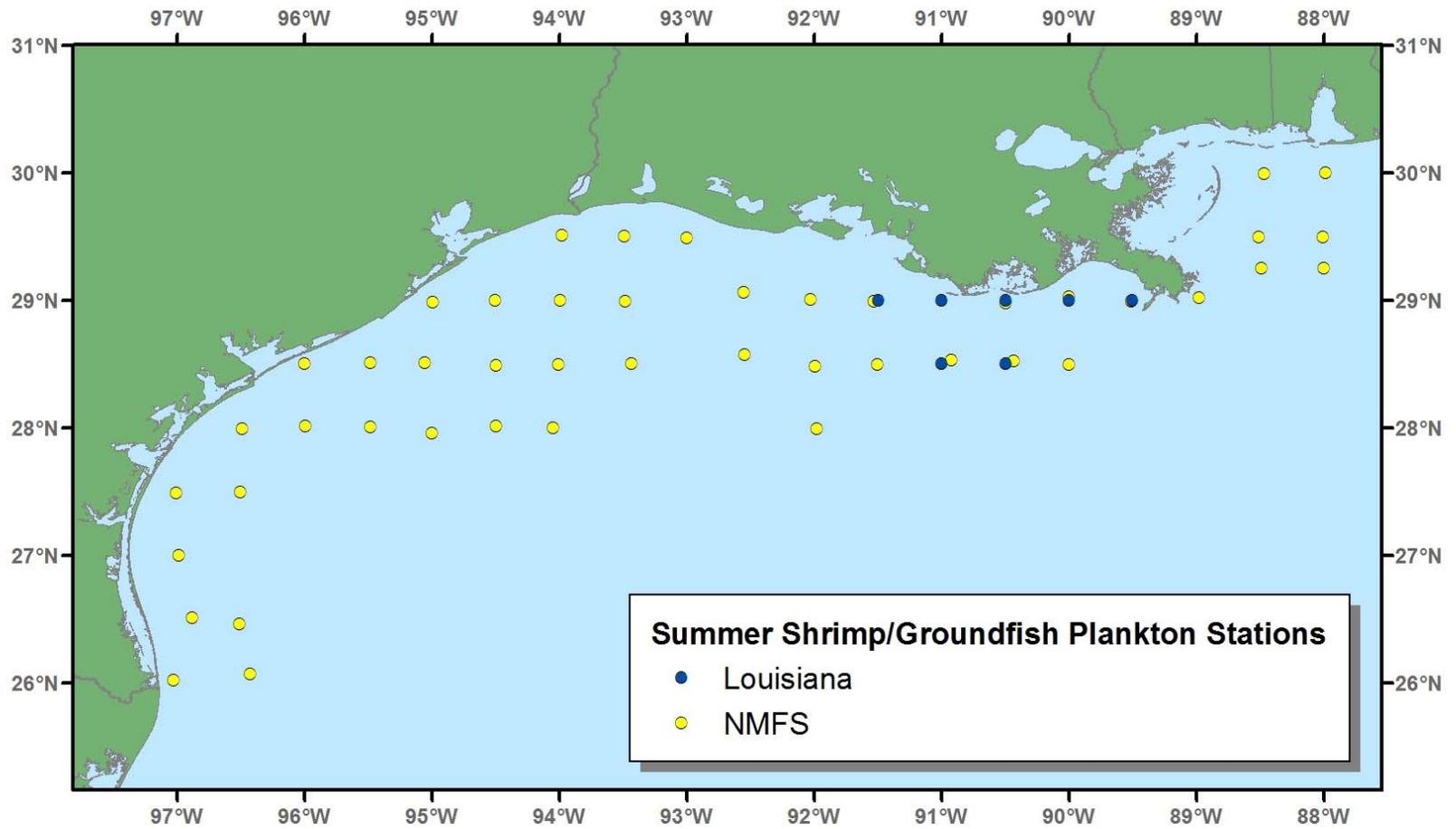


Figure 4. Locations of plankton stations during the 2006 Summer Shrimp/Groundfish Survey.

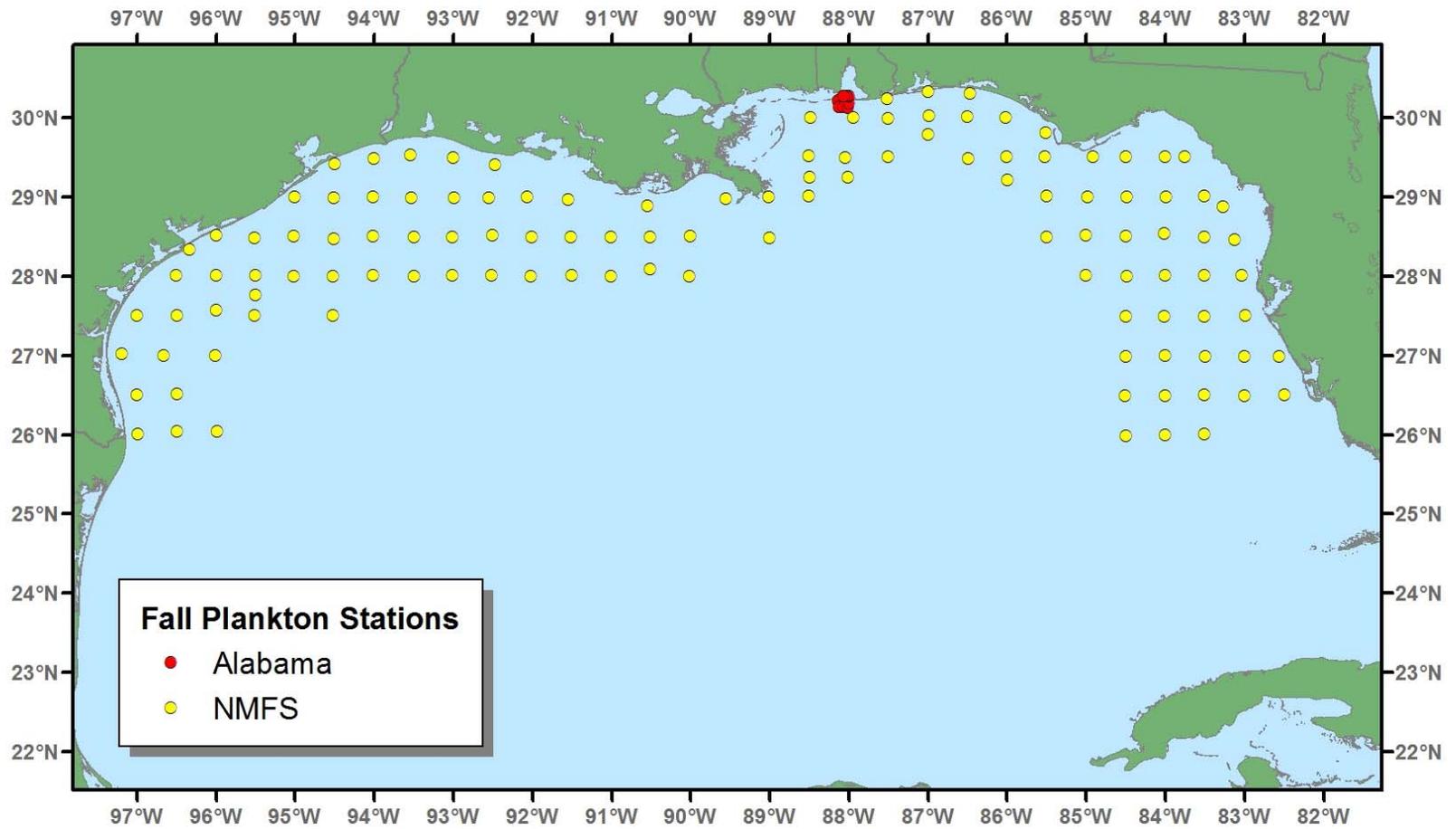


Figure 5. Locations of plankton and environmental stations during the 2006 Fall Plankton Survey.

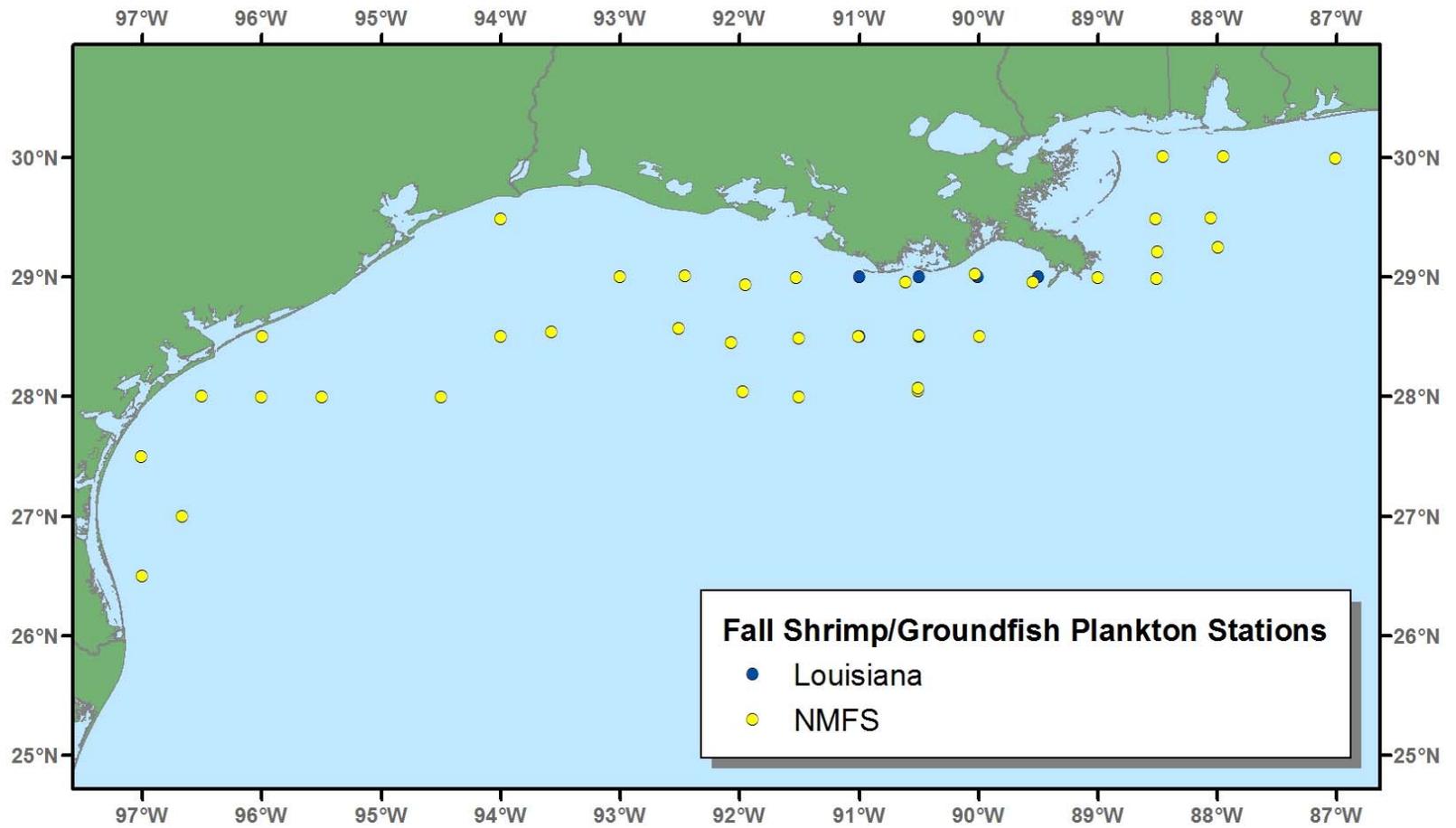


Figure 6. Locations of plankton stations during the 2006 Fall Shrimp/Groundfish Survey.

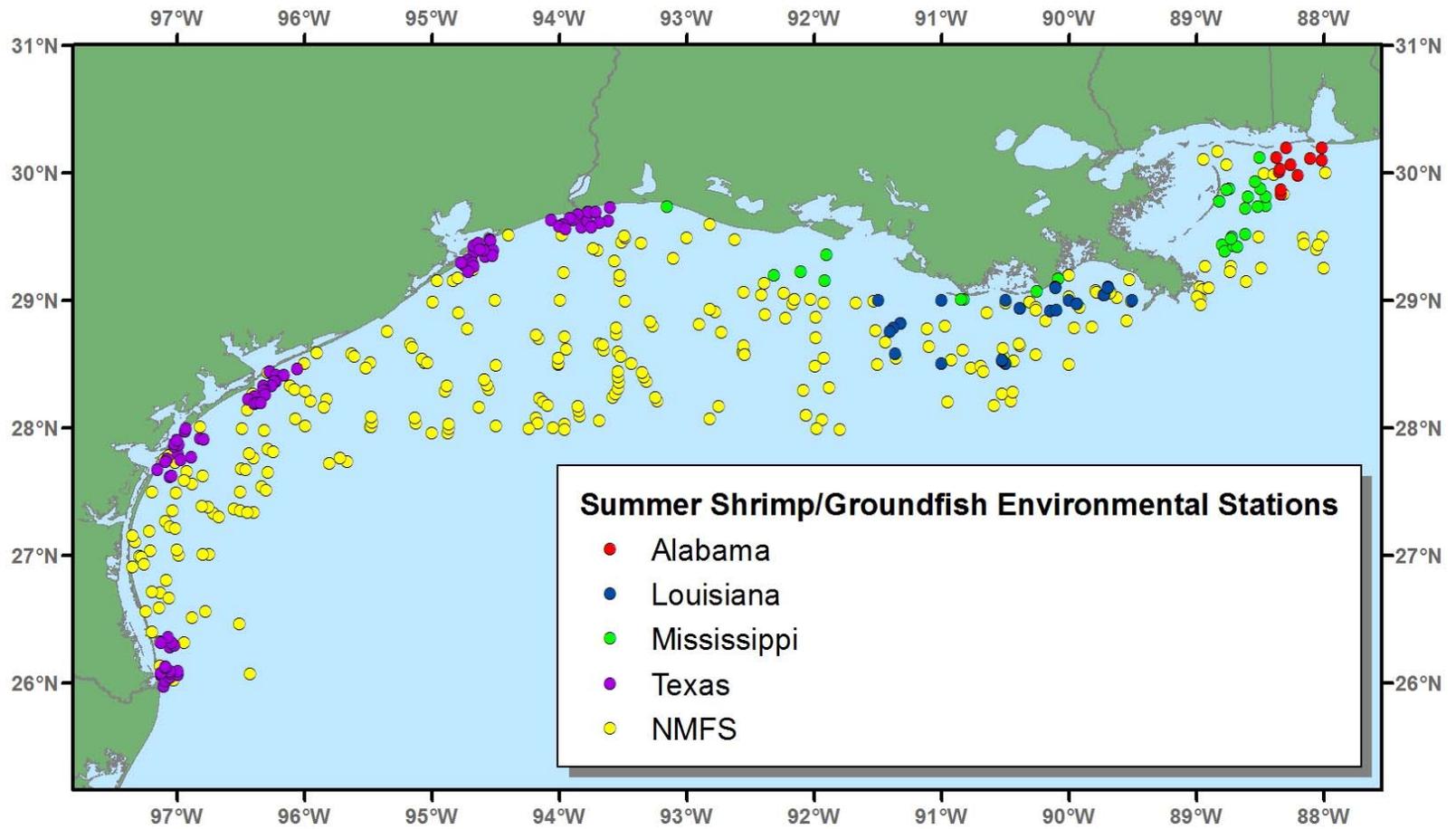


Figure 7. Locations of environmental stations during the 2006 Summer Shrimp/Groundfish Survey.

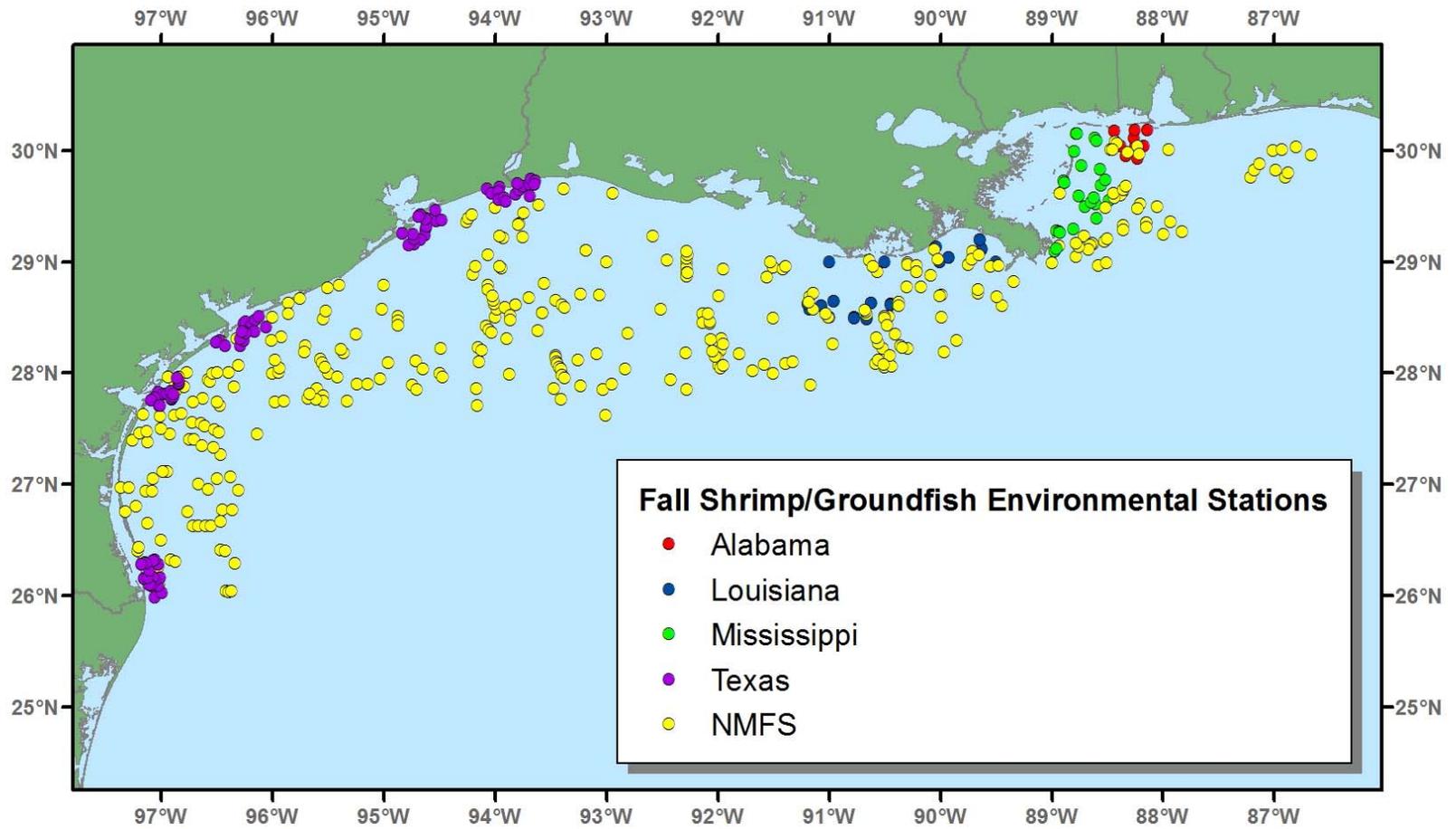


Figure 8. Locations of environmental stations during the 2006 Fall Shrimp/Groundfish Survey.

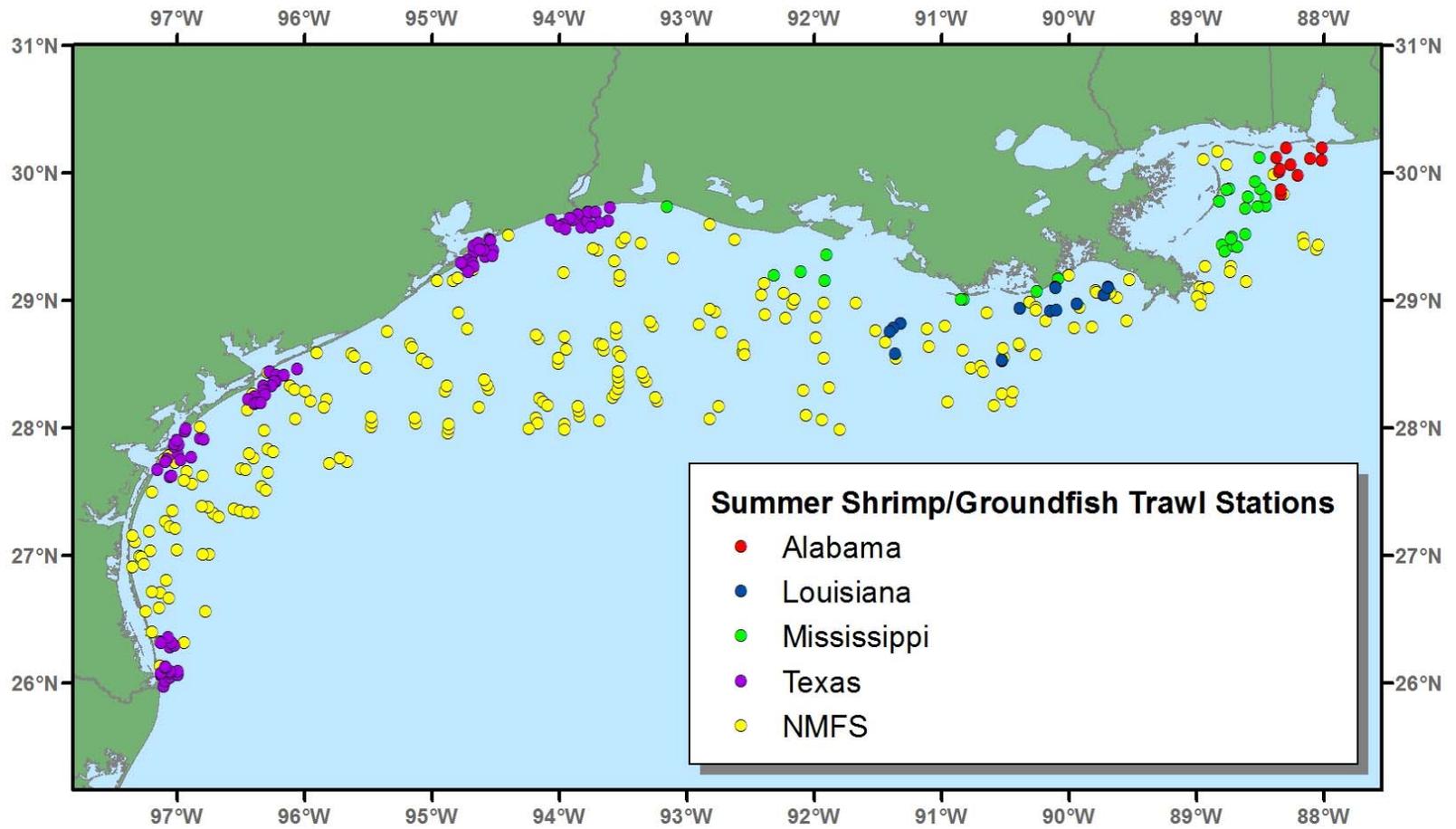


Figure 9. Locations of trawl stations during the 2006 Summer Shrimp/Groundfish Survey.

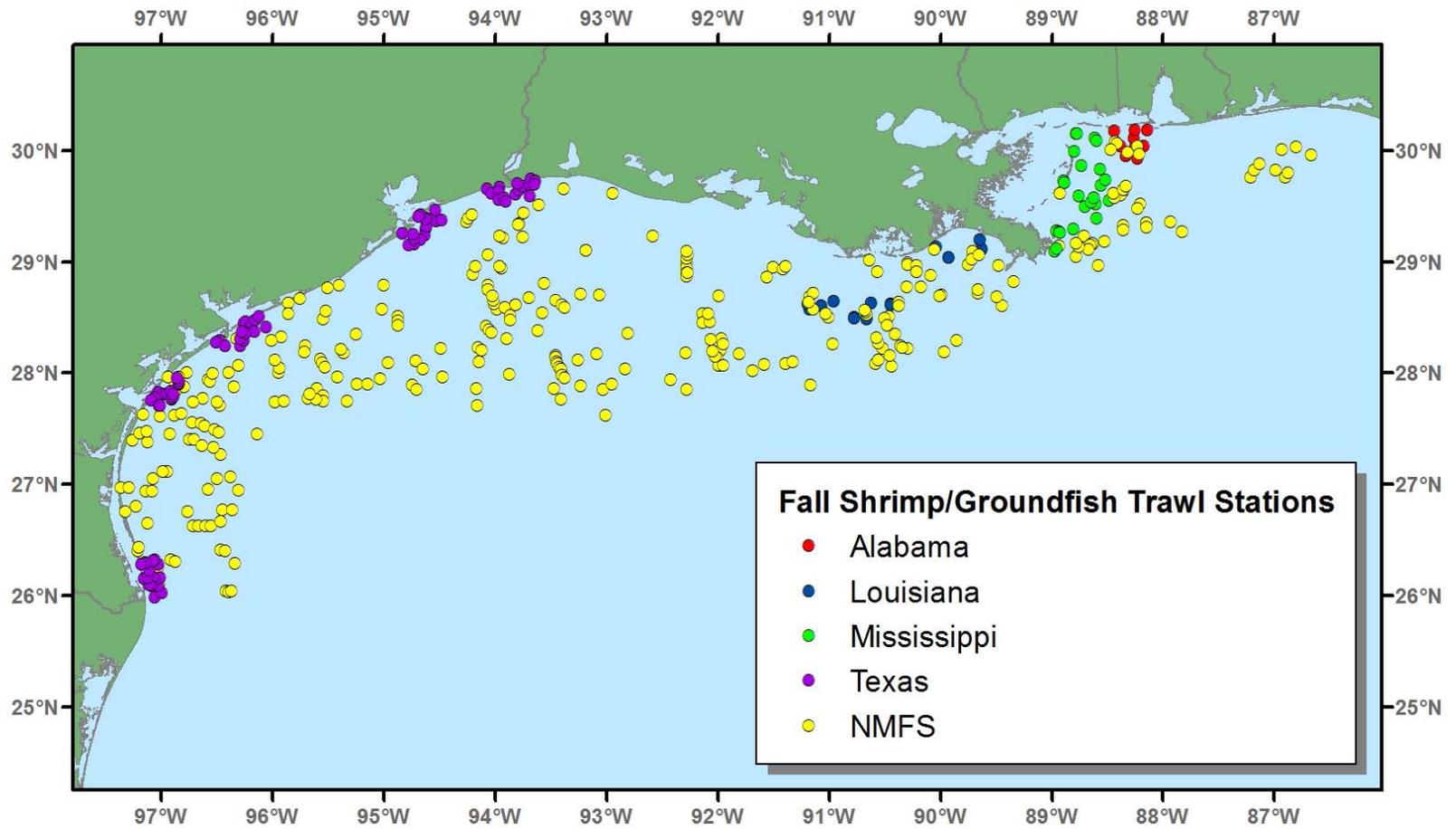


Figure 10. Locations of trawl stations during the 2006 Fall Shrimp/Groundfish Survey.

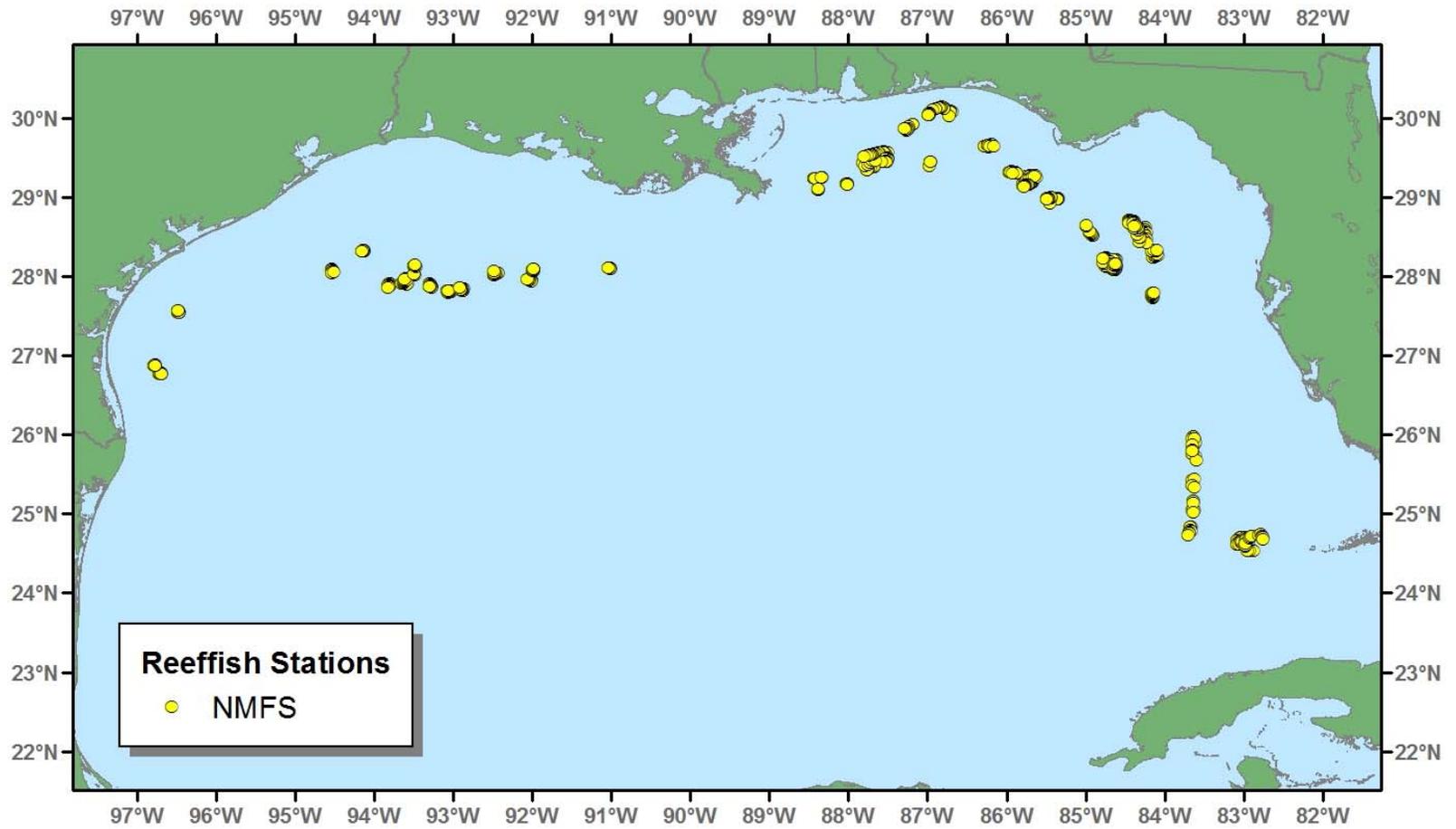


Figure 11. Locations of stations during the 2006 Reef Fish Survey.

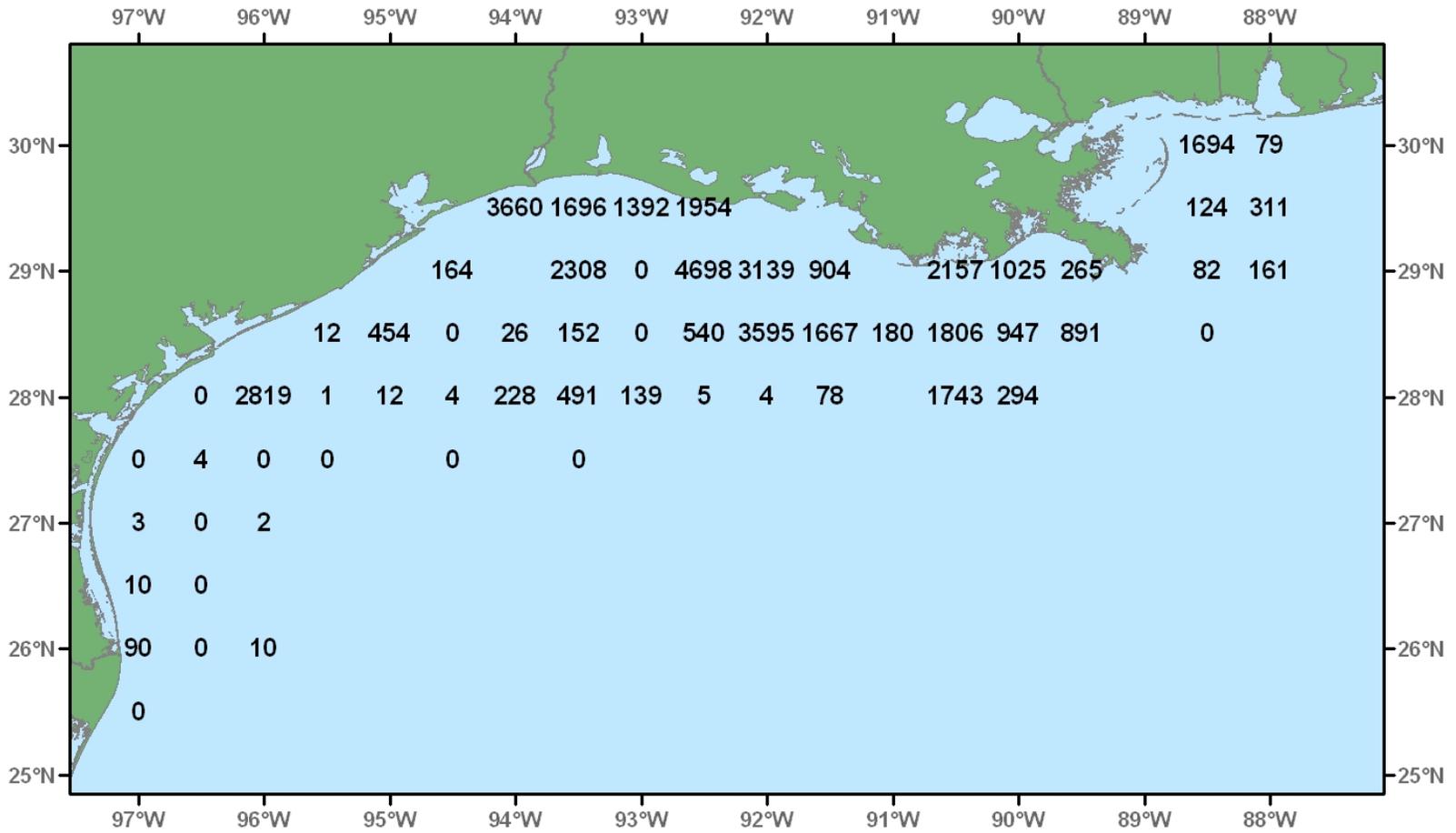


Figure 12. Atlantic croaker, *Micropogonias undulatus*, number/hour for June-July 2006.

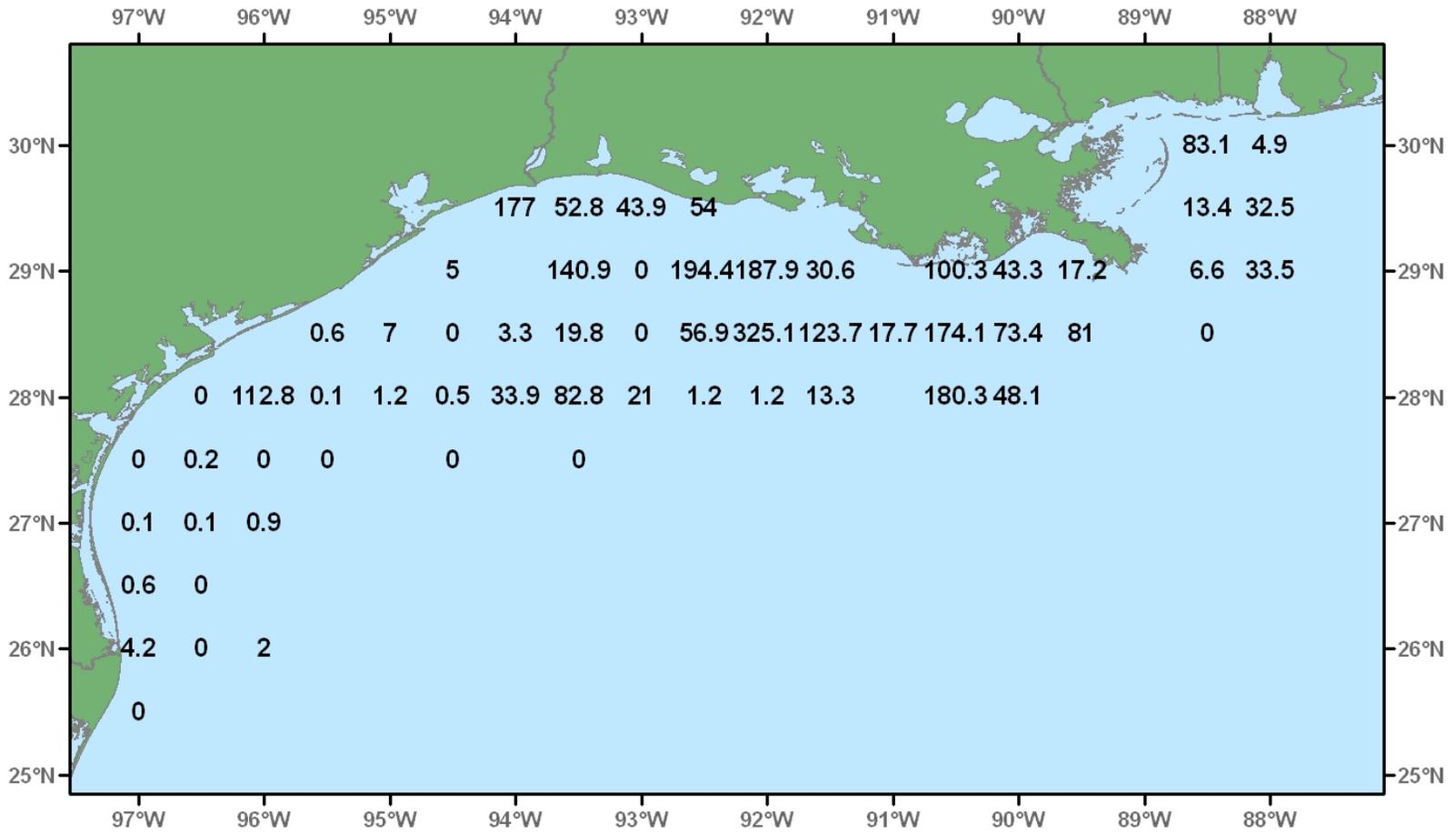


Figure 13. Atlantic croaker, *Micropogonias undulatus*, lb/hour for June-July 2006.

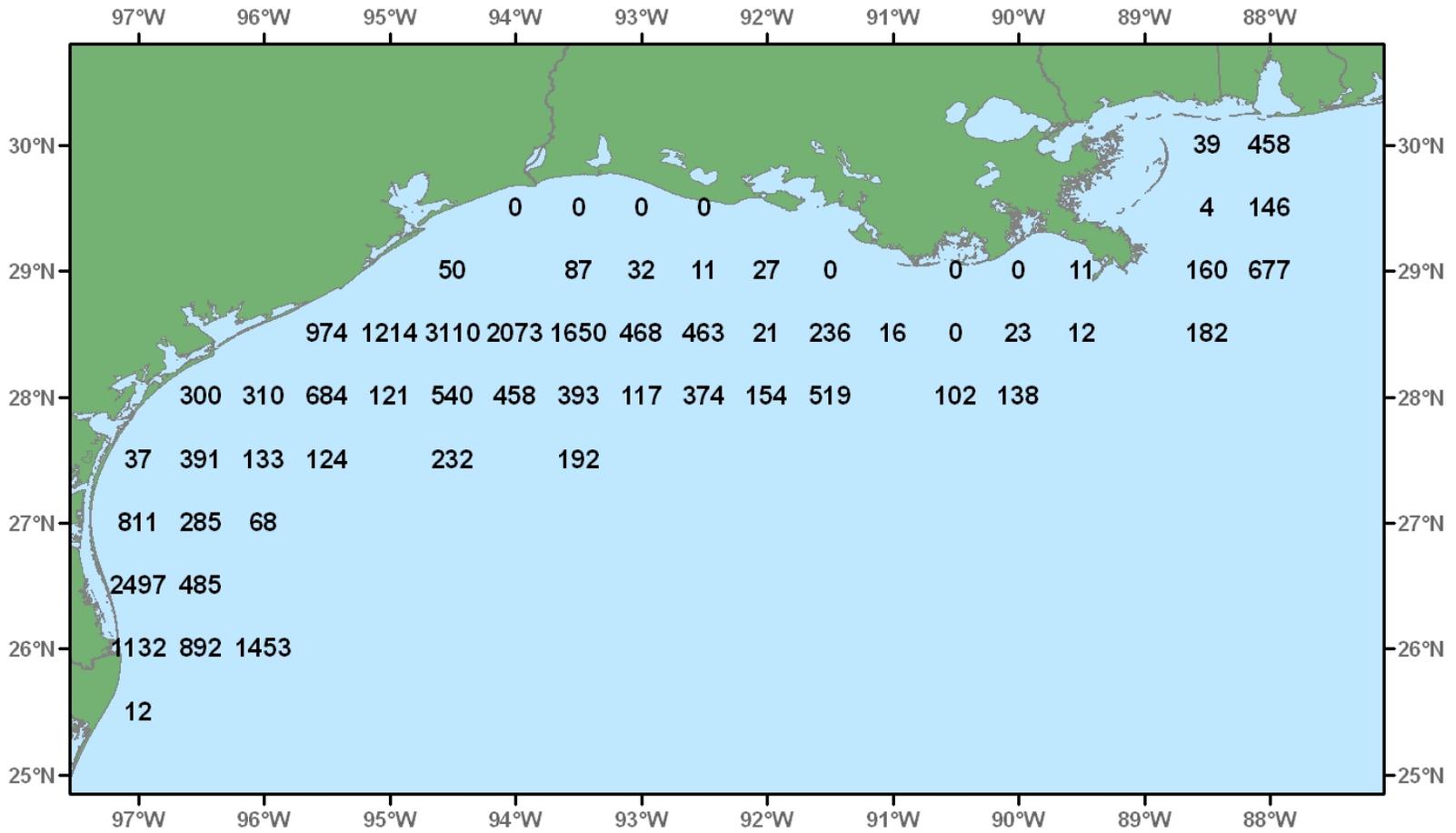


Figure 14. Longspine porgy, *Stenotomus caprinus*, number/hour for June-July 2006.

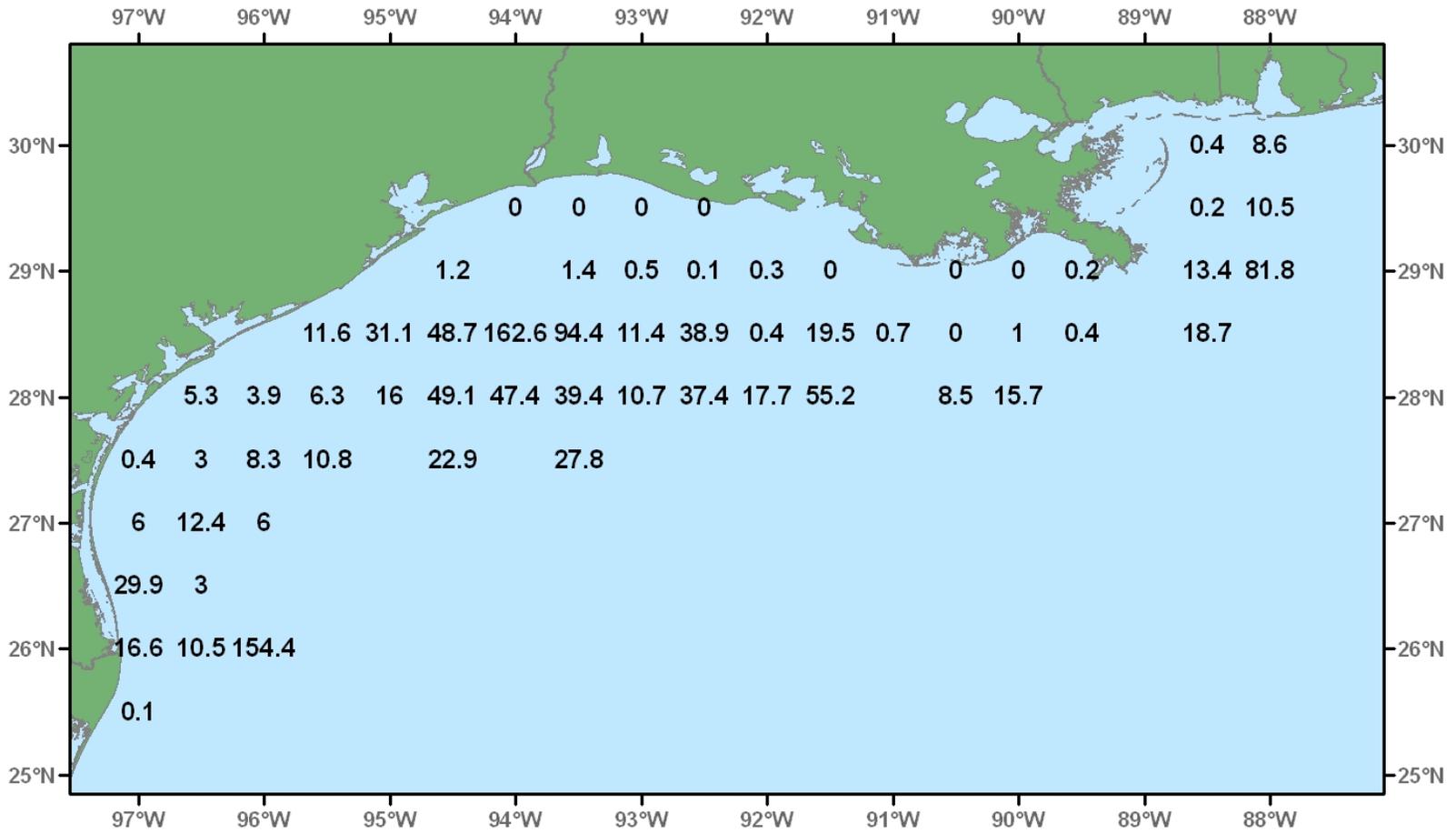


Figure 15. Longspine porgy, *Stenotomus caprinus*, lb/hour for June-July 2006.

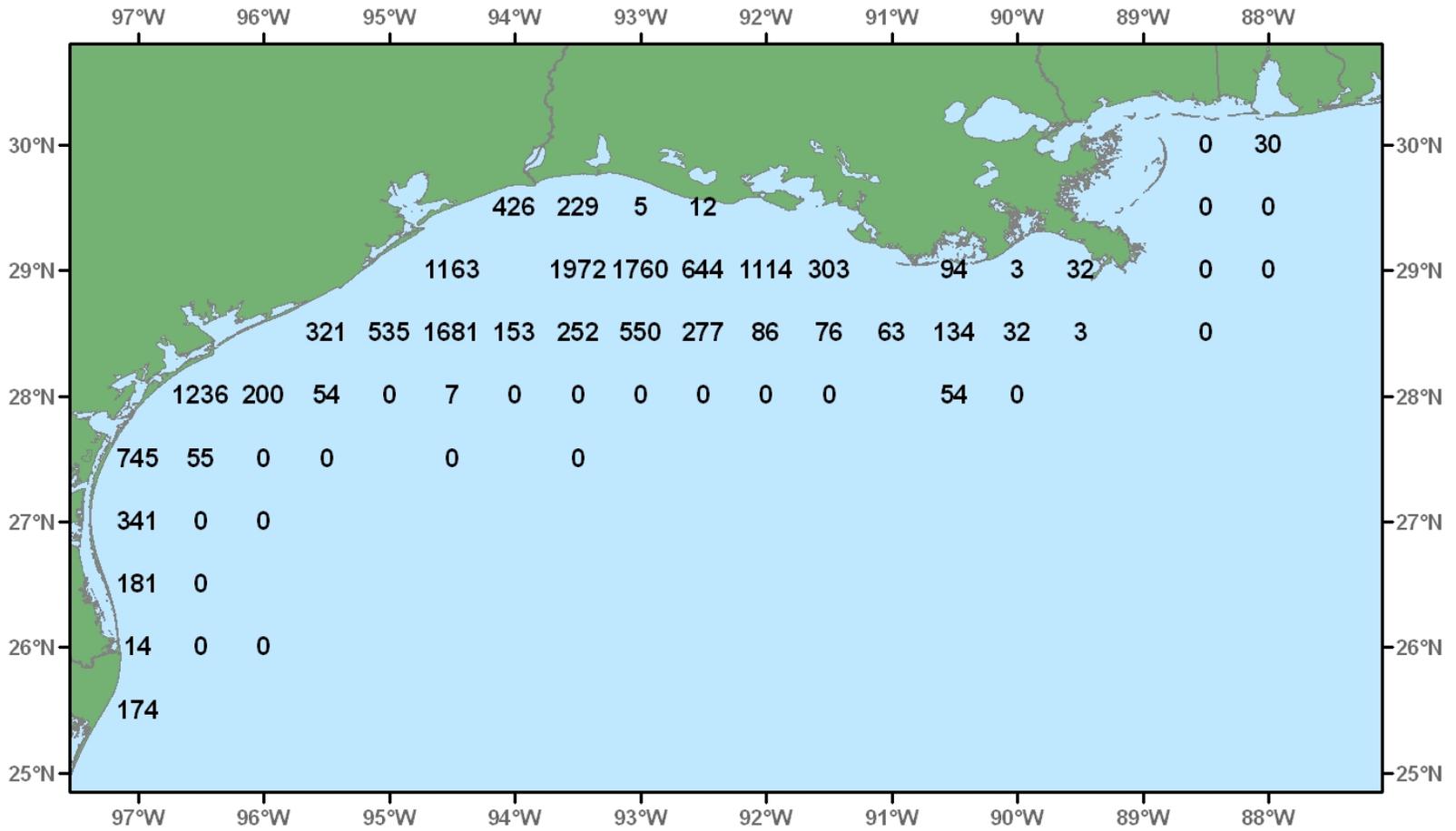


Figure 16. Atlantic bumper, *Chloroscombrus chrysurus*, number/hour for June-July 2006.

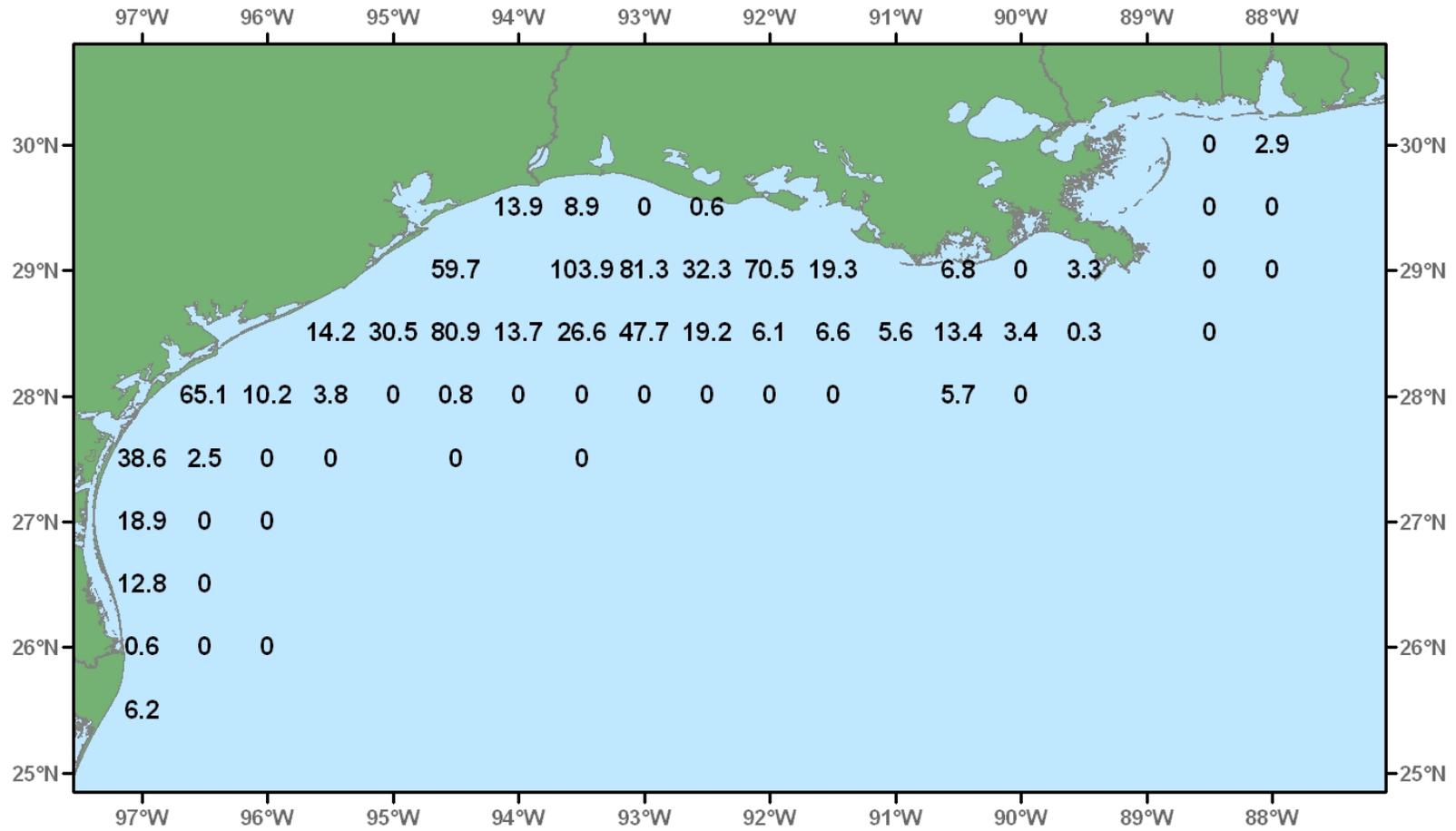


Figure 17. Atlantic bumper, *Chloroscombrus chrysurus*, lb/hour for June-July 2006.

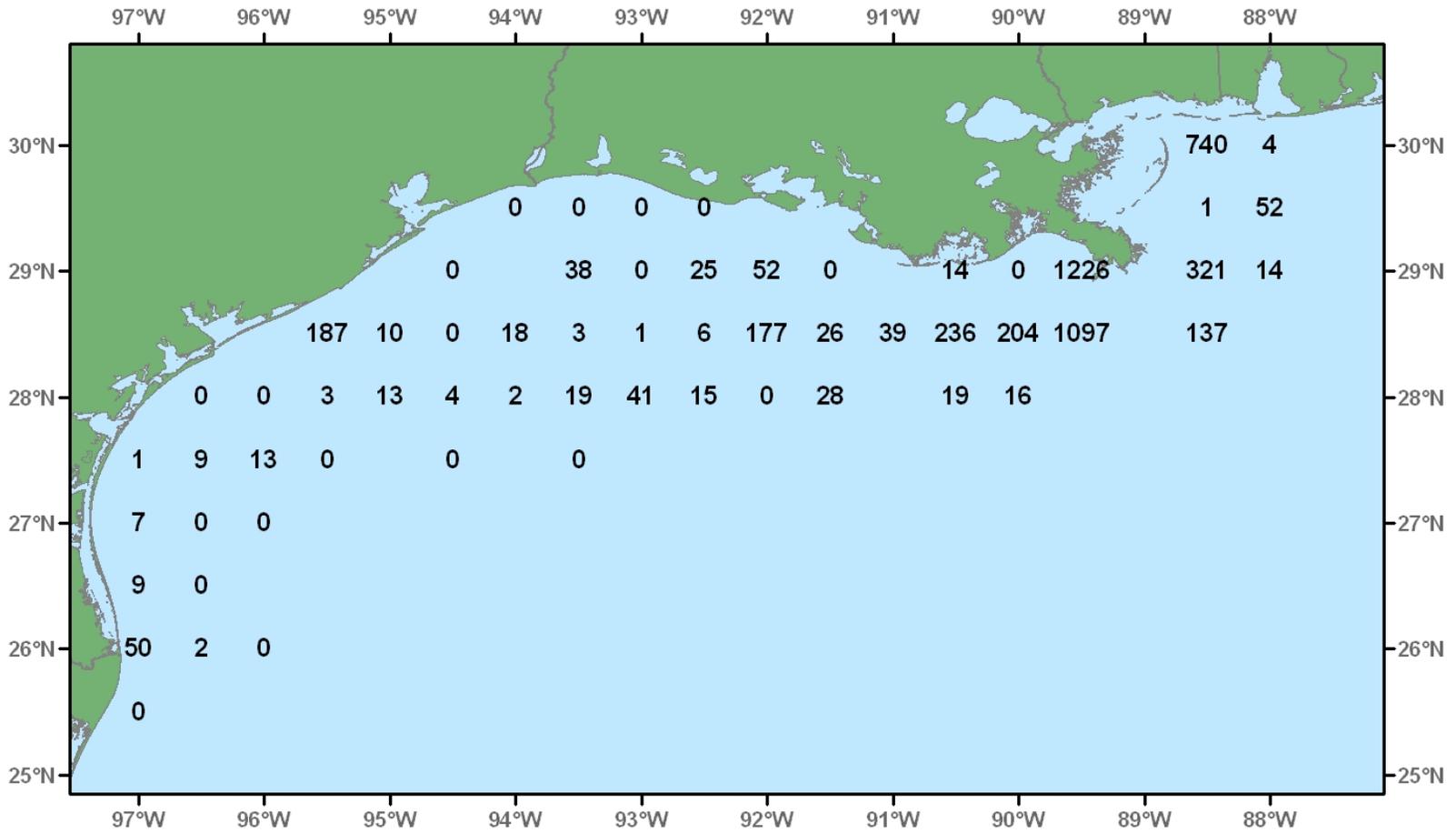


Figure 18. Blackwing searobin, *Prionotus rubio*, number/hour for June-July 2006.

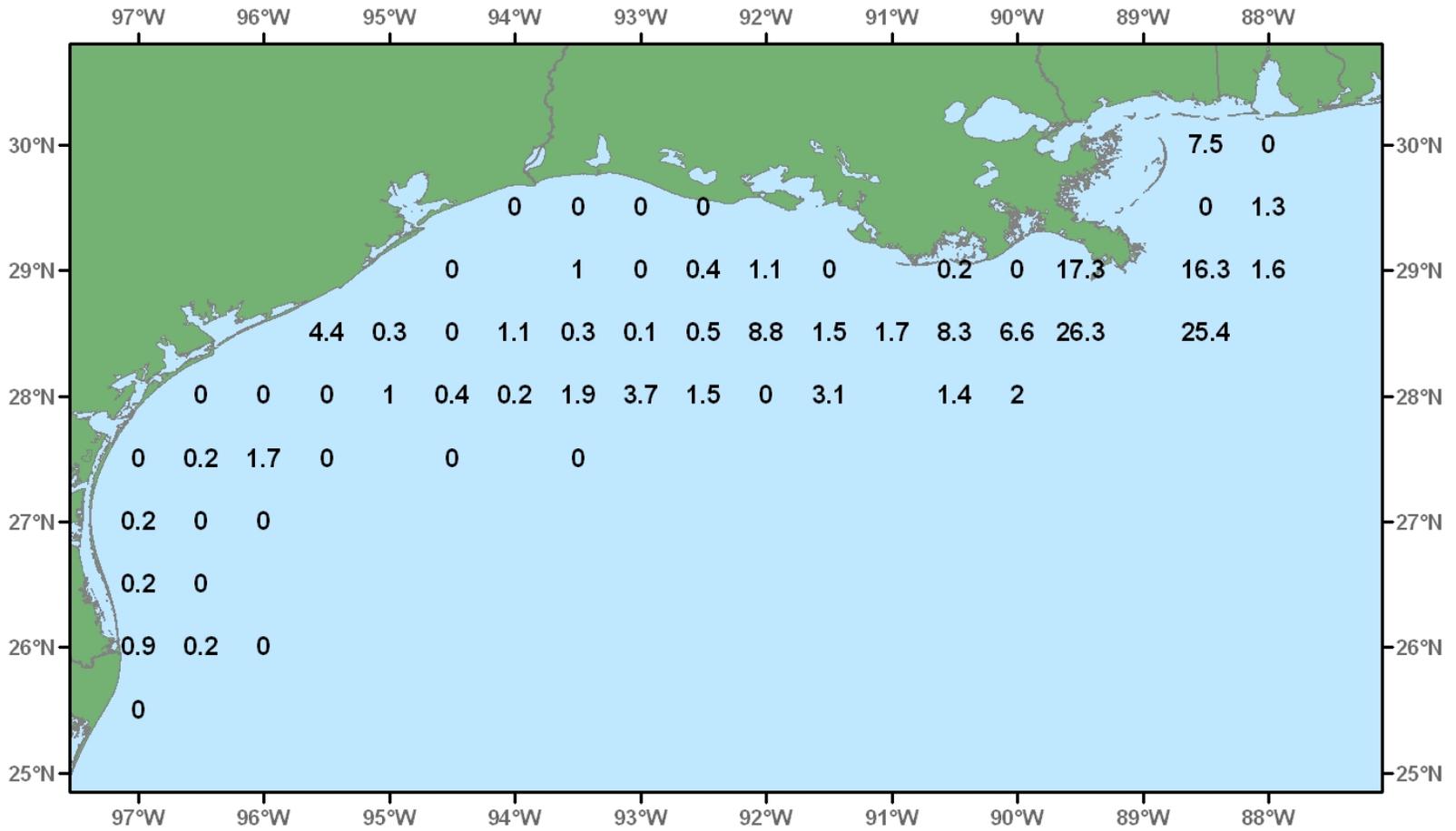


Figure 19. Blackwing searobin, *Prionotus rubio*, lb/hour for June-July 2006.

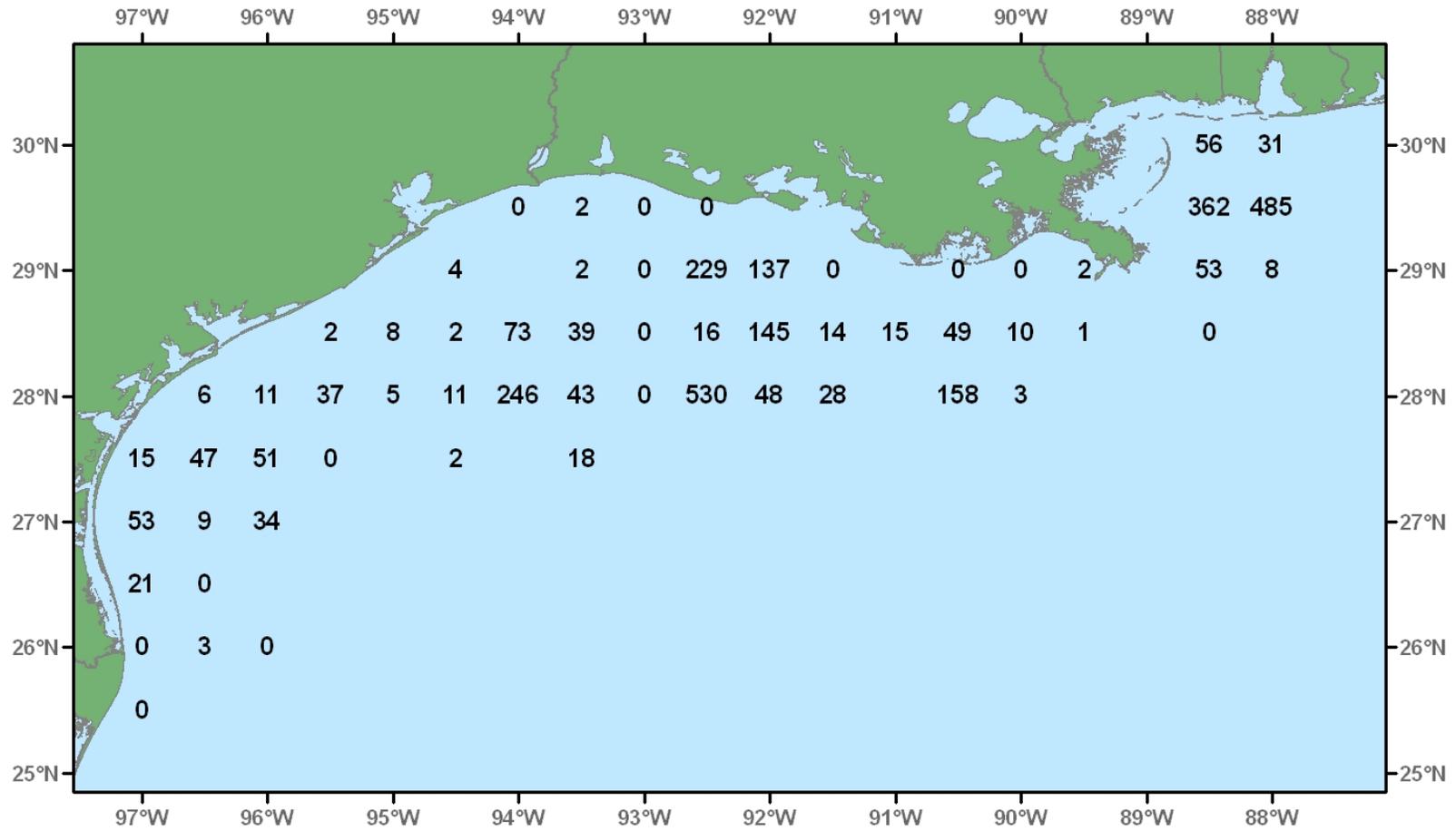


Figure 20. Gulf butterfish, *Peprilus burti*, number/hour for June-July 2006.

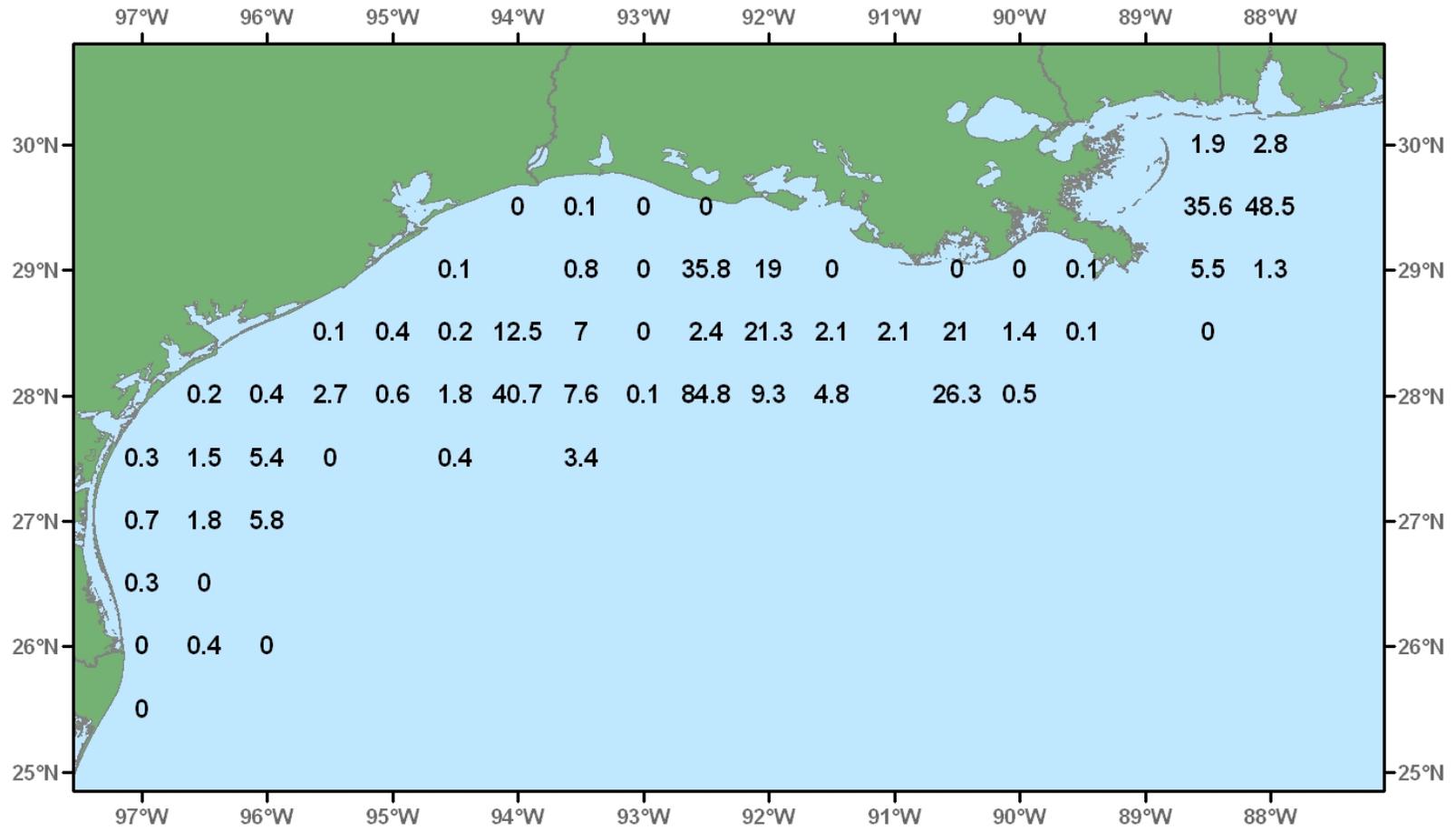


Figure 21. Gulf butterfish, *Peprilus burti*, lb/hour for June-July 2006.

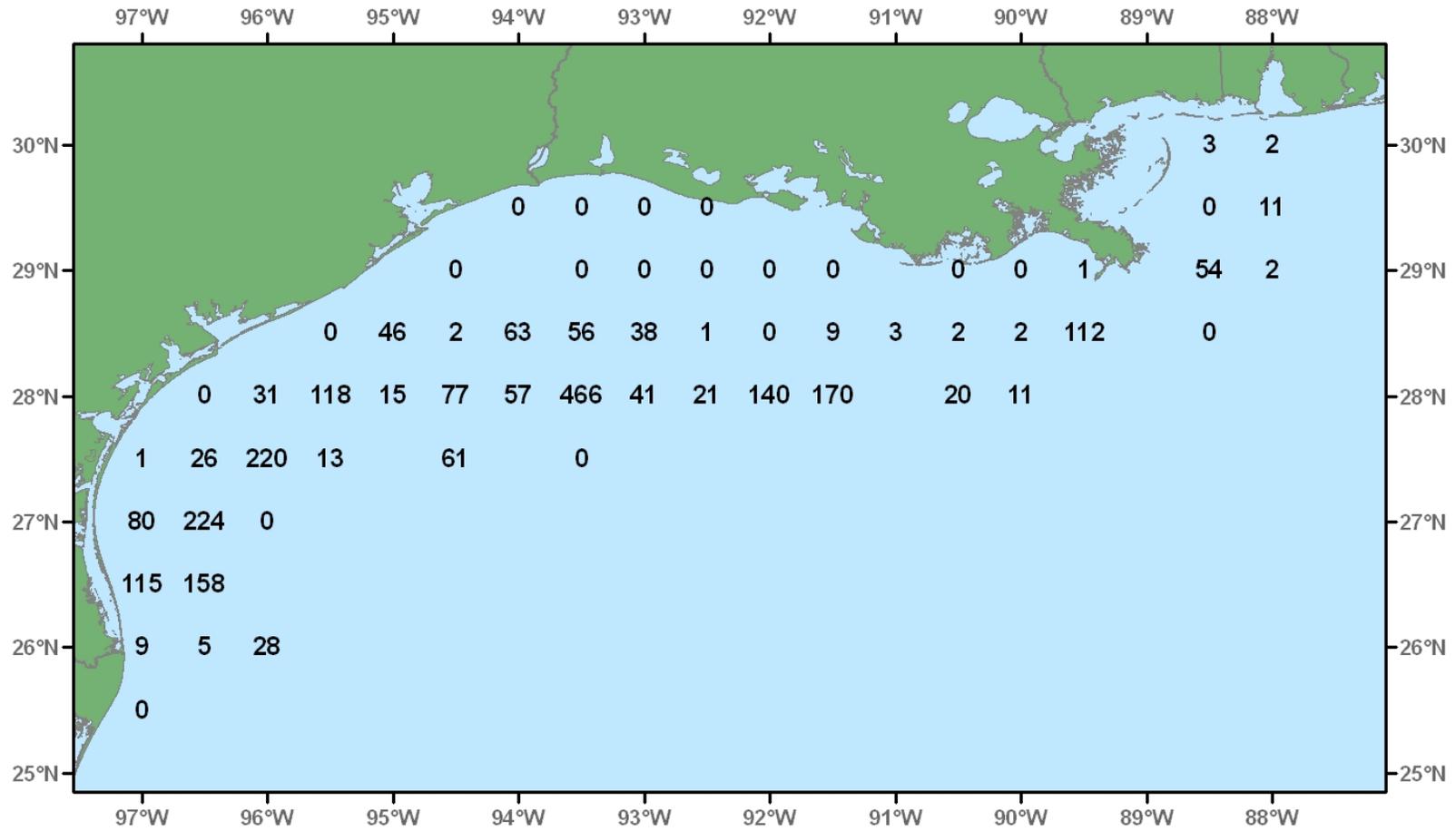


Figure 22. Largescale lizardfish, *Saurida brasiliensis*, number/hour for June-July 2006.

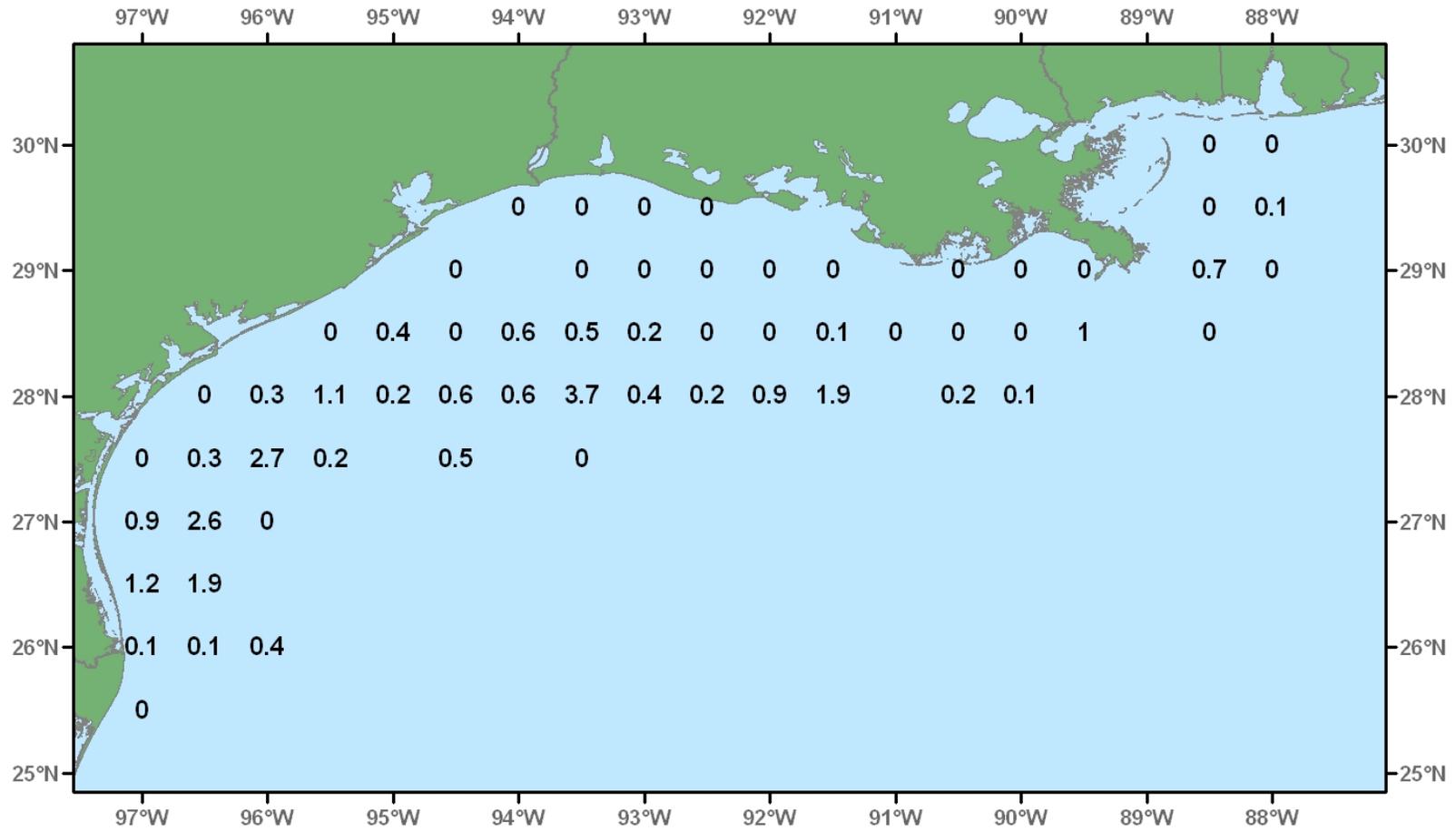


Figure 23. Largescale lizardfish, *Saurida brasiliensis*, lb/hour for June-July 2006.

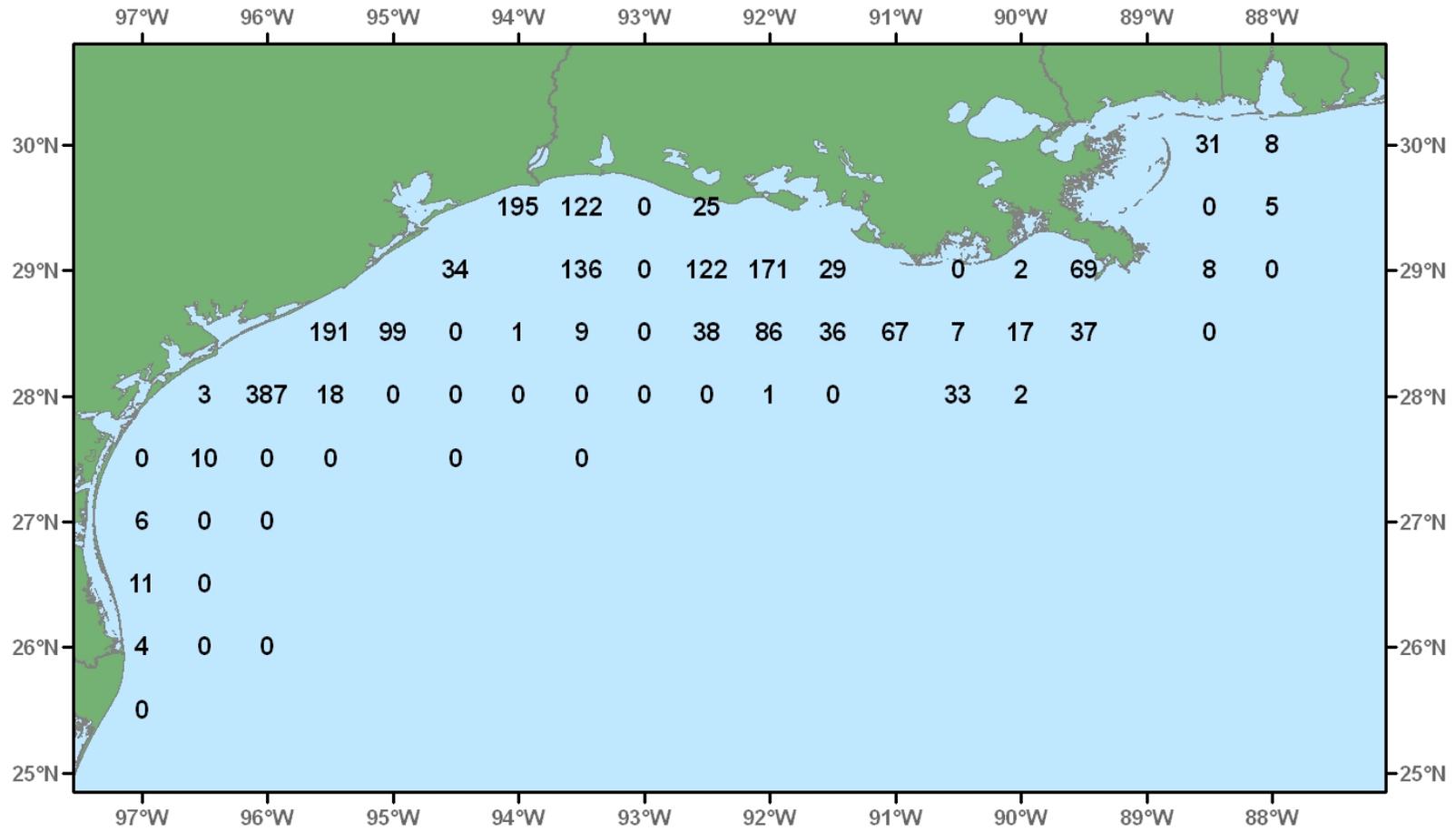


Figure 24. Silver seatrout, *Cynoscion nothus*, number/hour for June-July 2006.

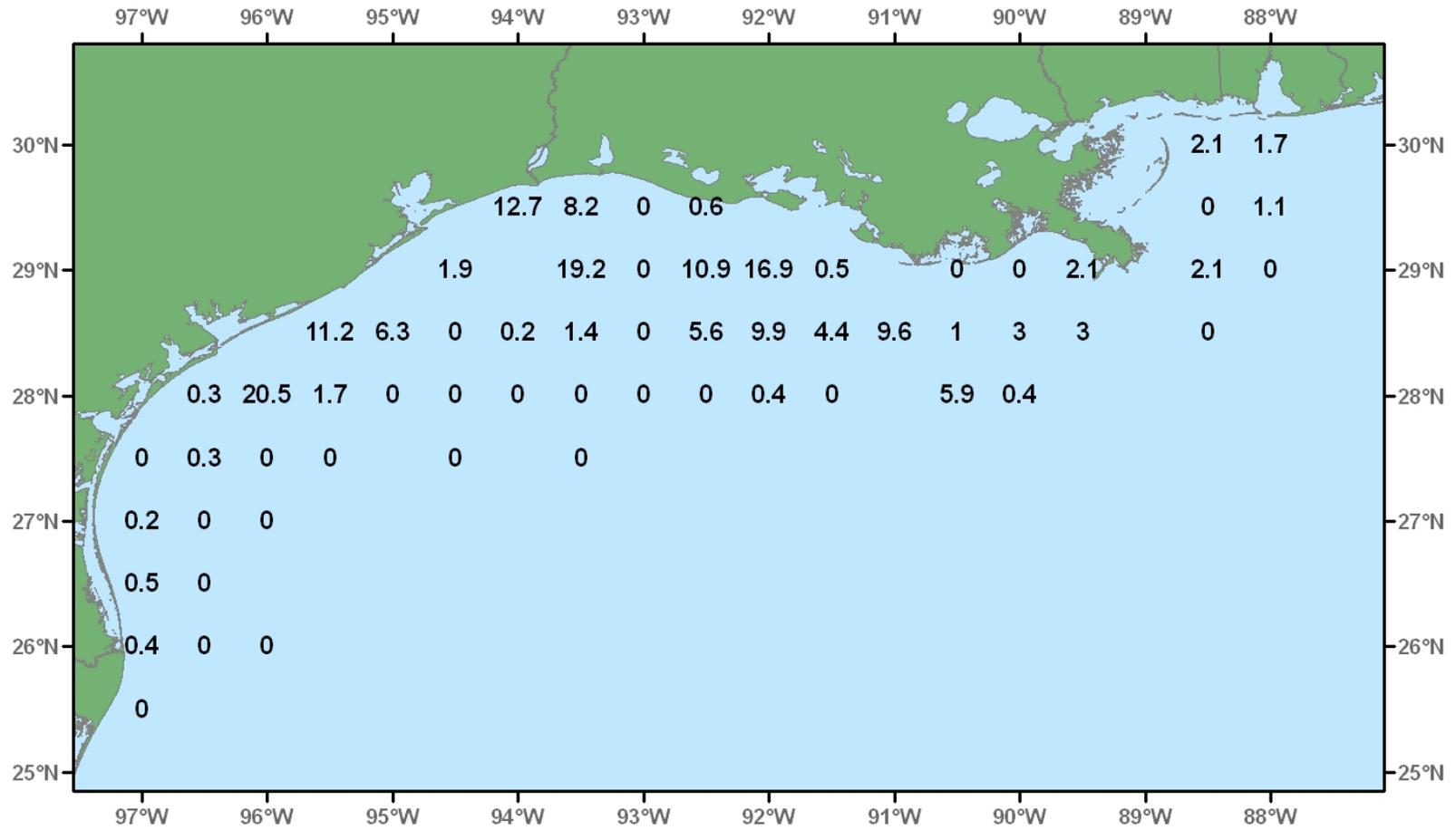


Figure 25. Silver seatrout, *Cynoscion nothus*, lb/hour for June-July 2006.

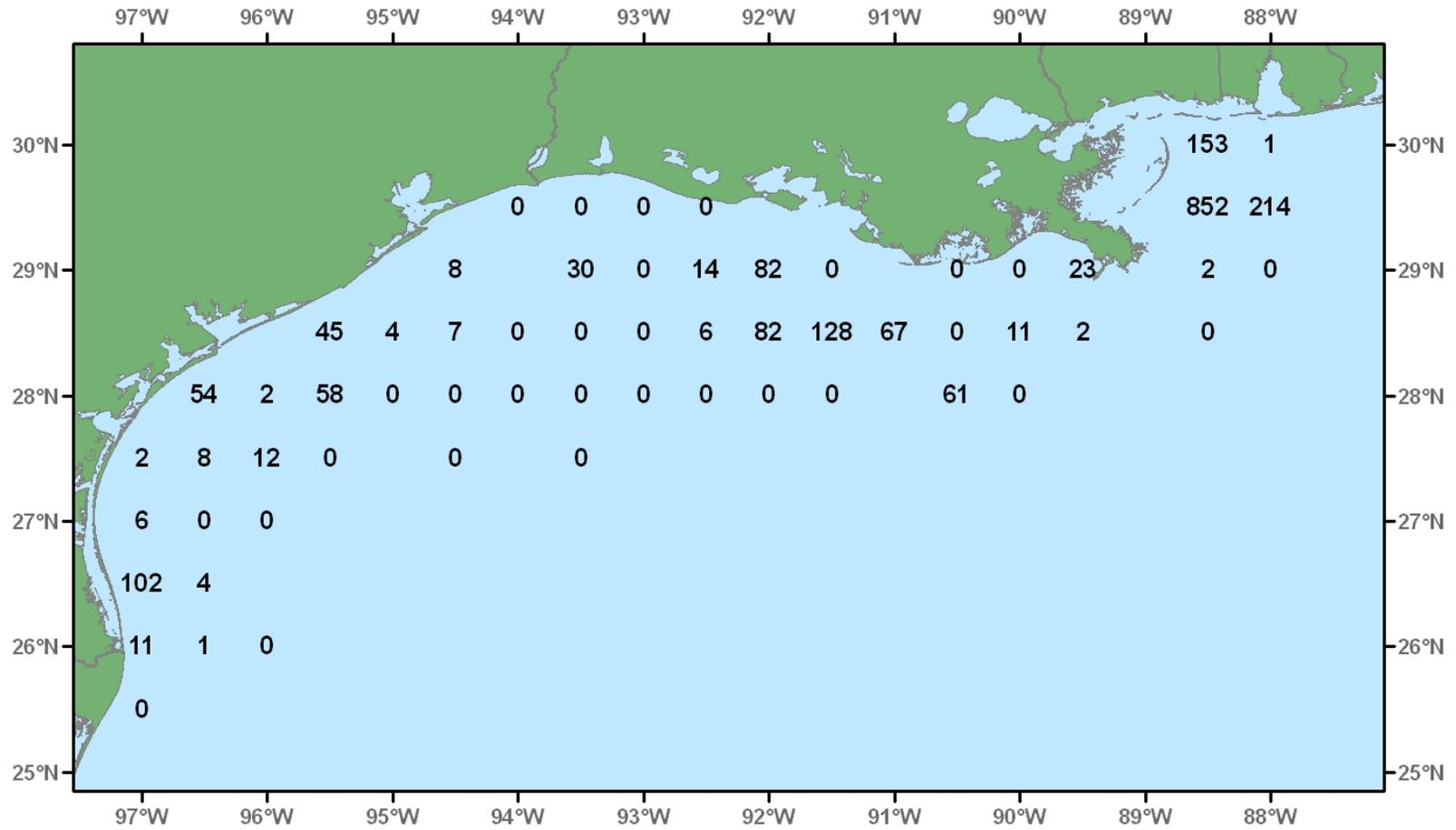


Figure 26. Striped anchovy, *Anchoa hepsetus*, number/hour for June-July 2006.

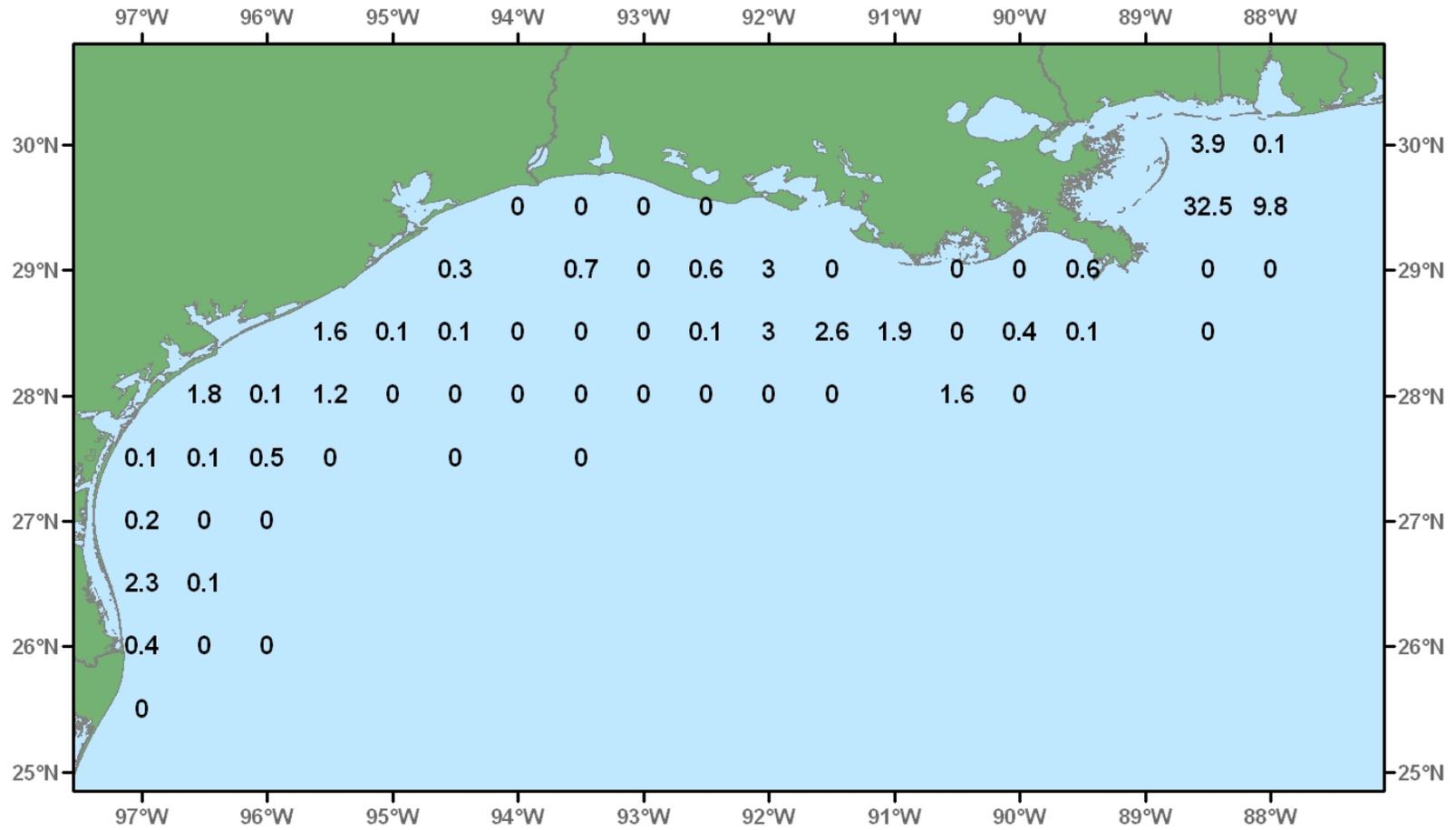


Figure 27. Striped anchovy, *Anchoa hepsetus*, lb/hour for June-July 2006.

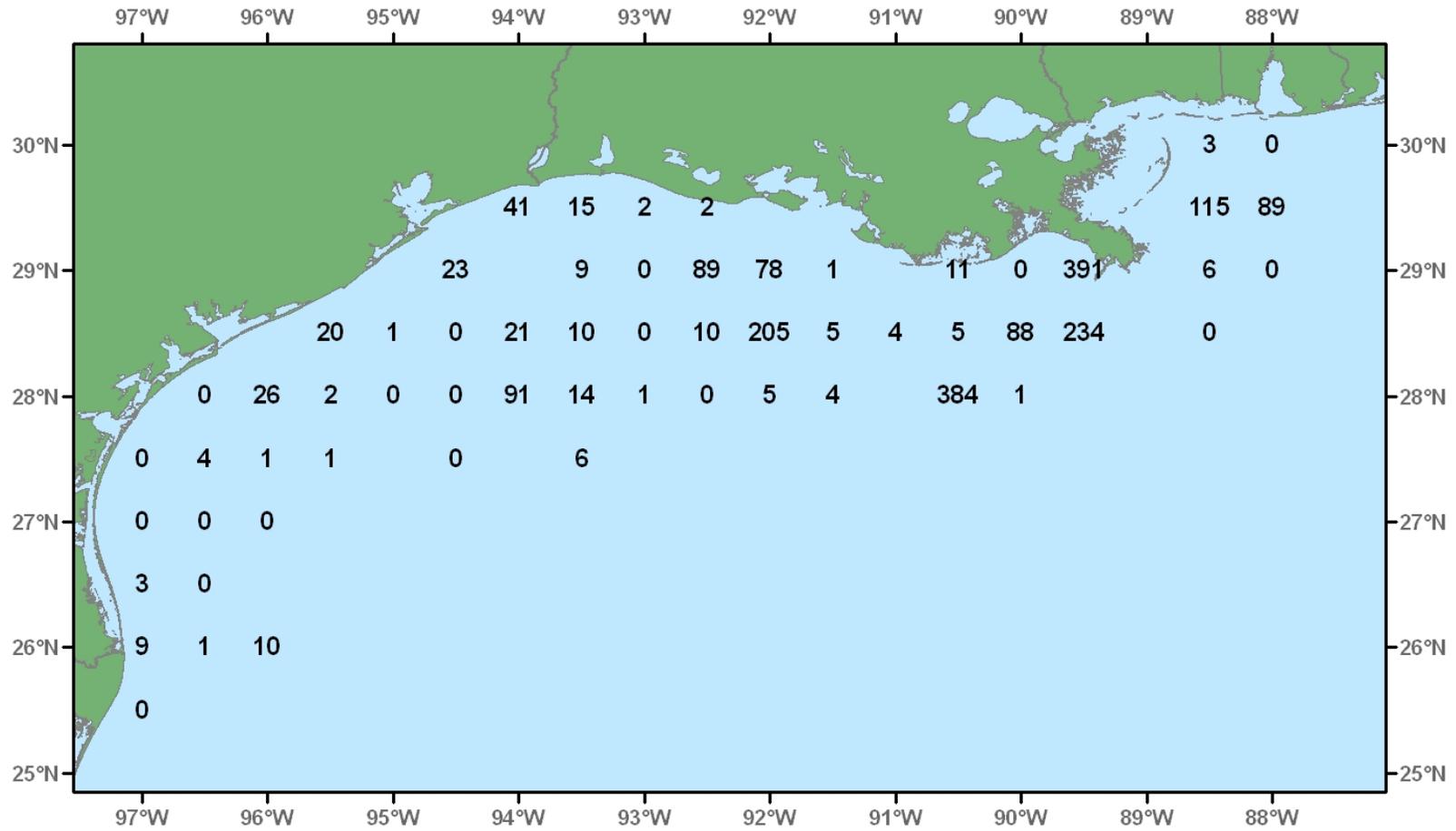


Figure 28. Atlantic cutlassfish, Trichiurus lepturus, number/hour for June-July 2006.

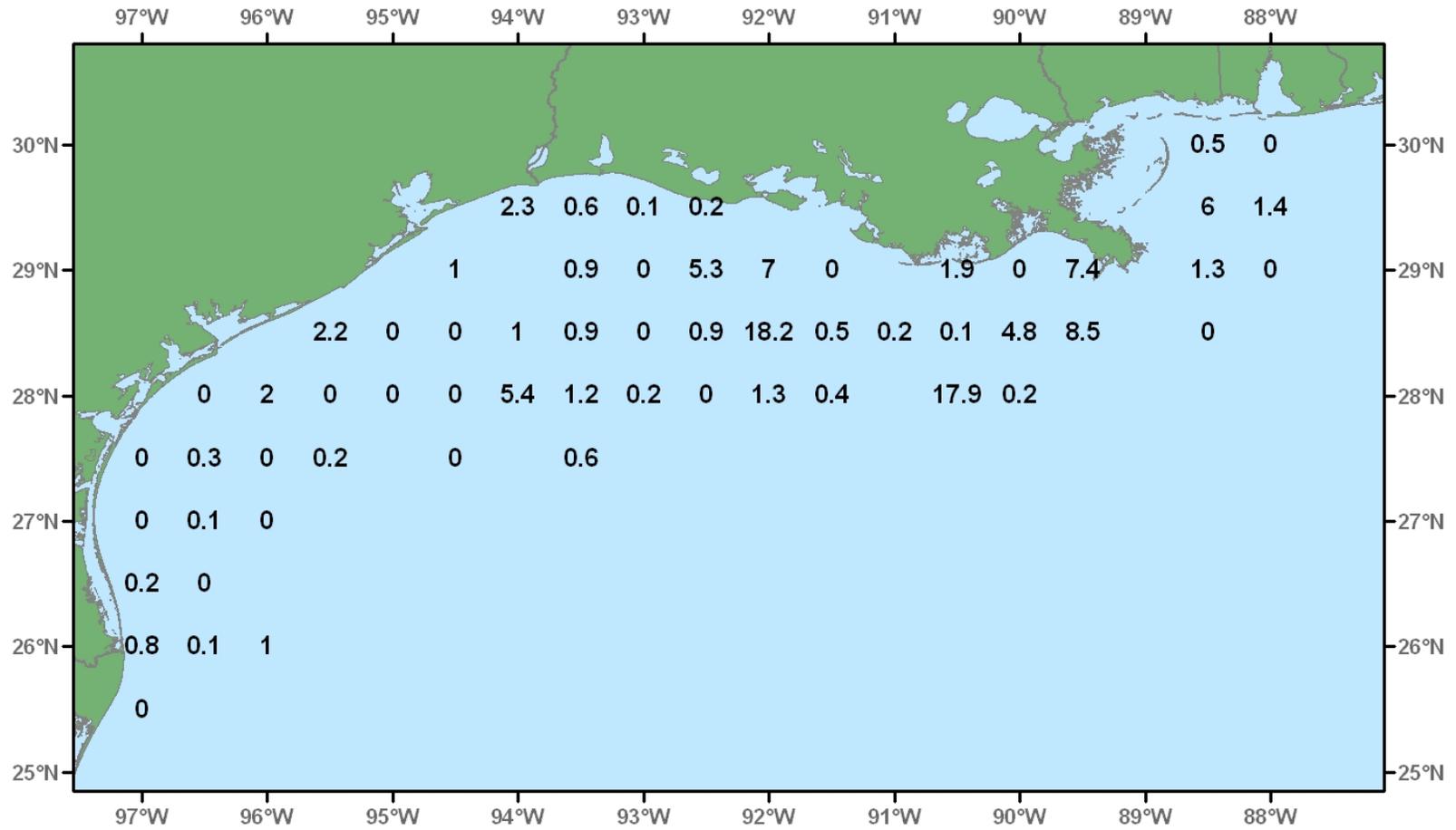


Figure 29. Atlantic cutlassfish, *Trichiurus lepturus*, lb/hour for June-July 2006.

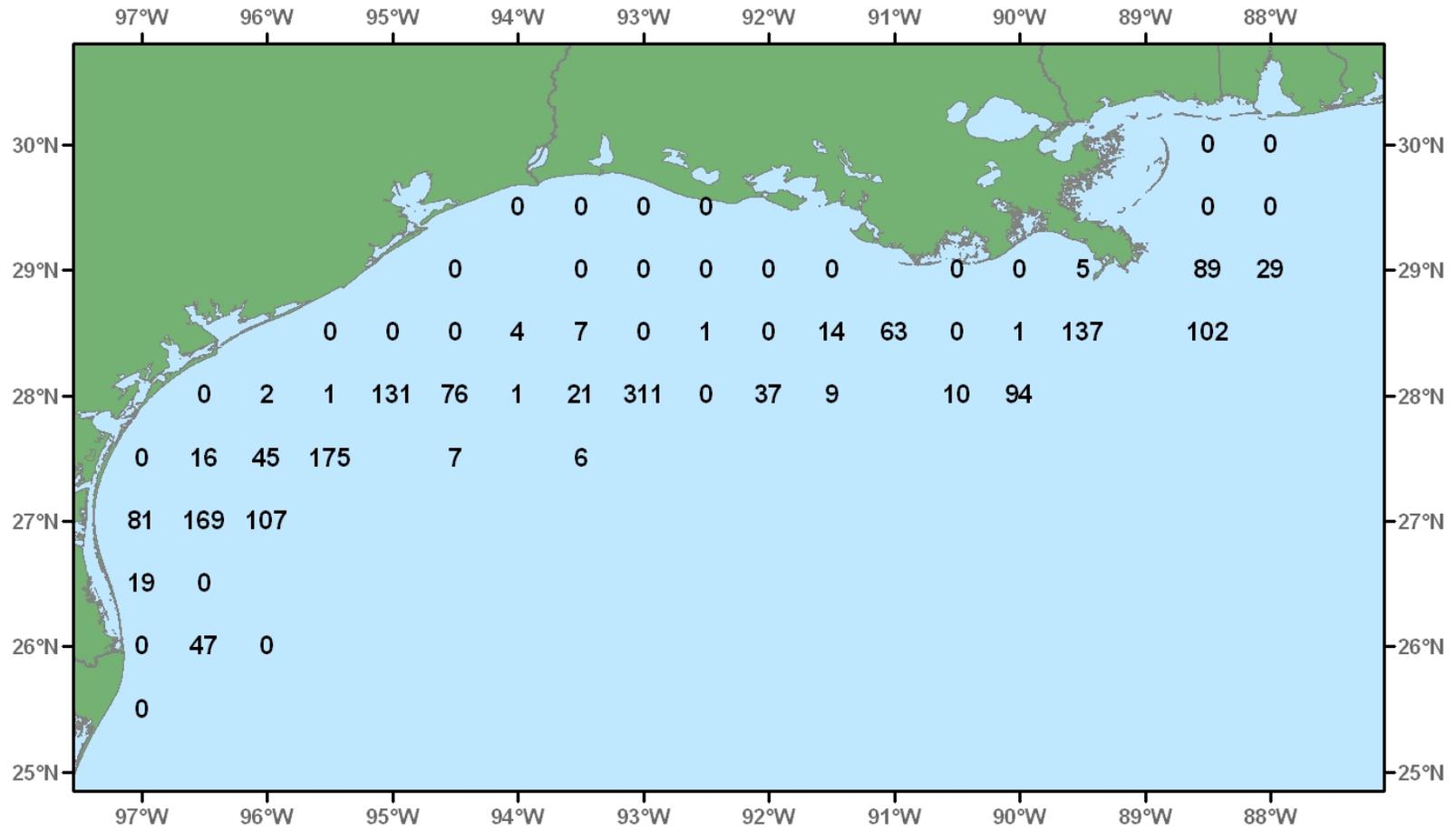


Figure 30. Blackear bass, *Serranus atrobranchus*, number/hour for June-July 2006.

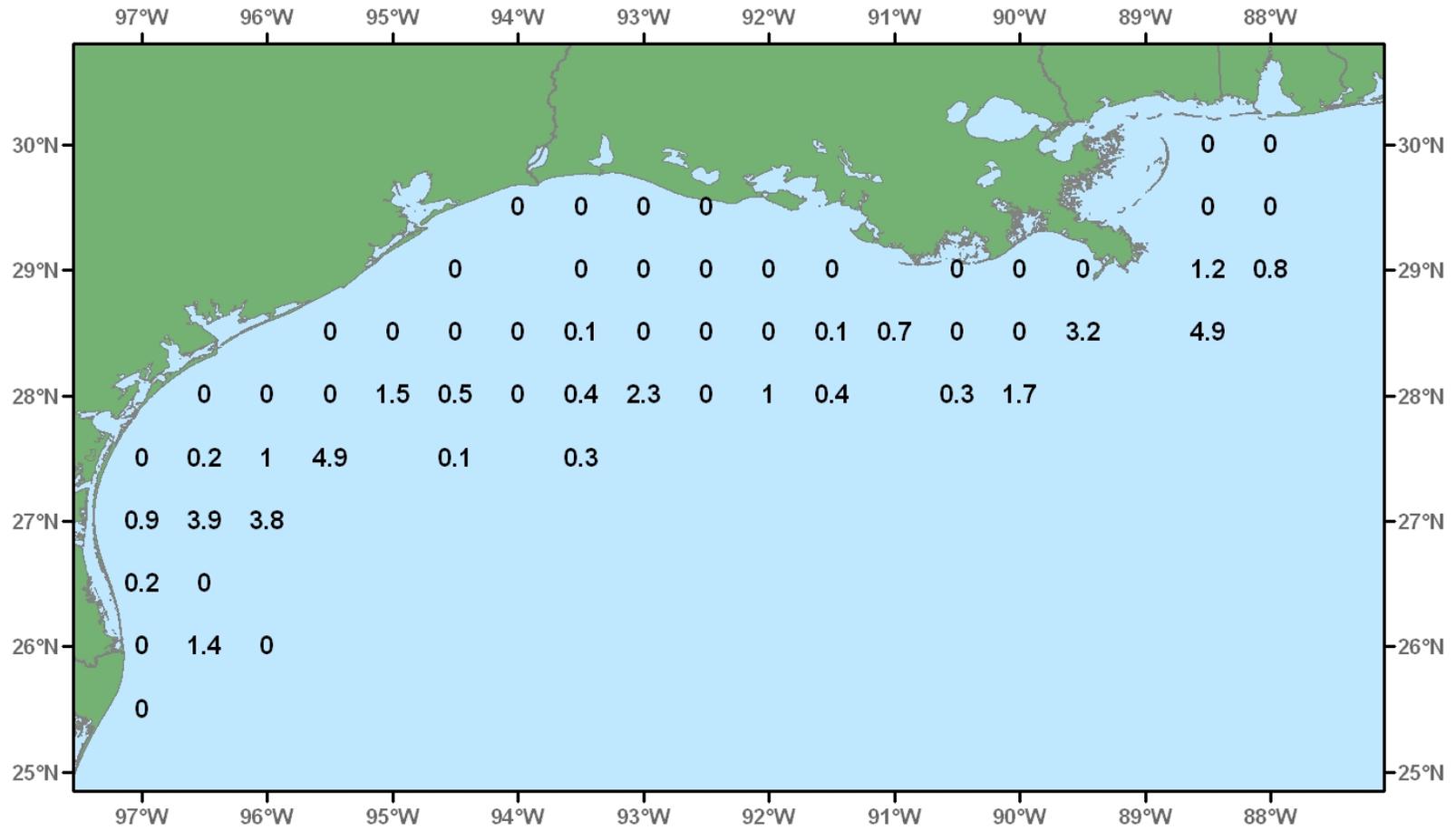


Figure 31. Blackear bass, *Serranus atrobranchus*, lb/hour for June-July 2006.

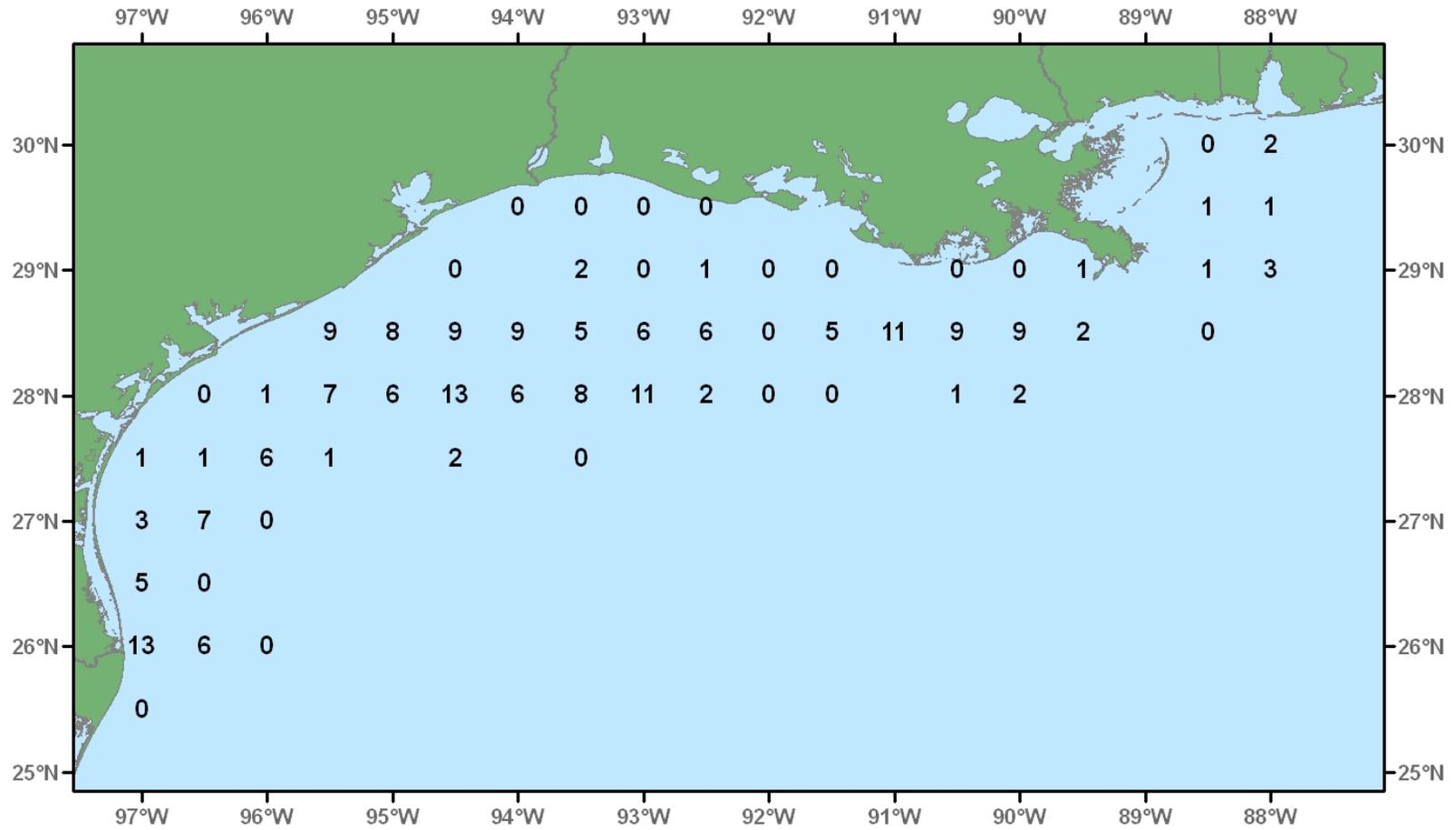


Figure 32. Red snapper, Lutjanus campechanus, number/hour for June-July 2006.

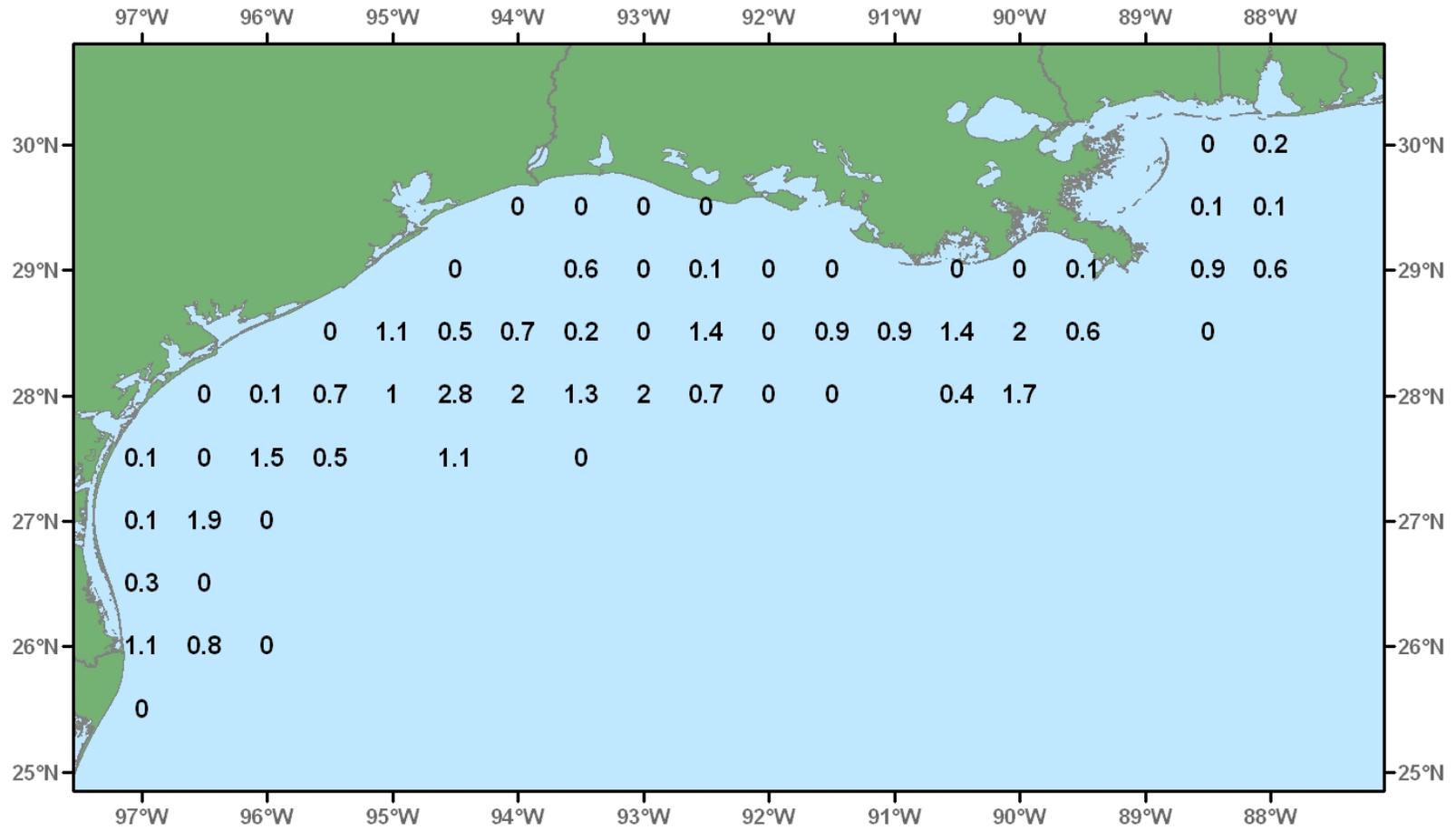


Figure 33. Red snapper, Lutjanus campechanus, lb/hour for June-July 2006.

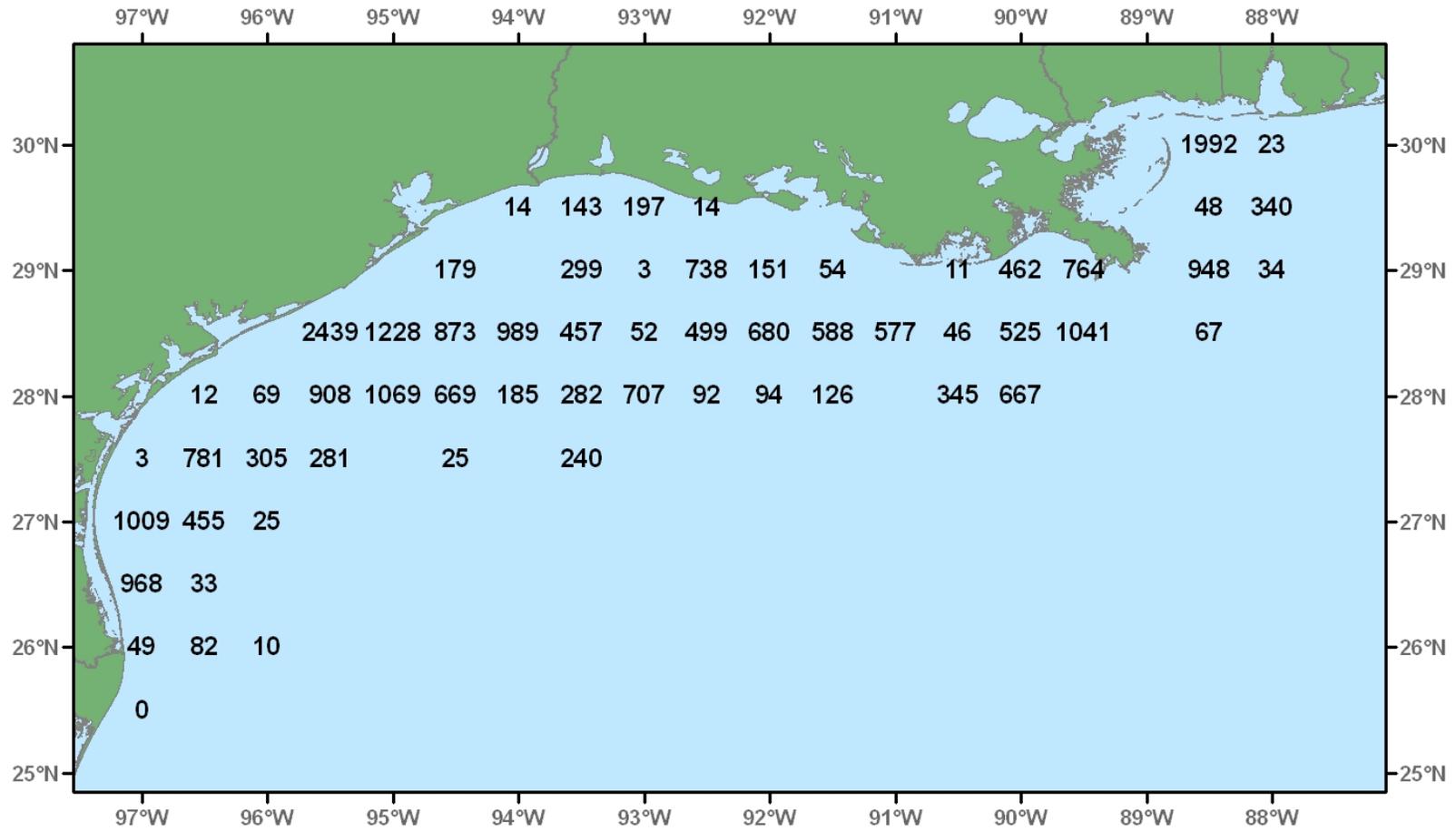


Figure 34. Brown shrimp, *Farfantepenaeus aztecus*, number/hour for June-July 2006.

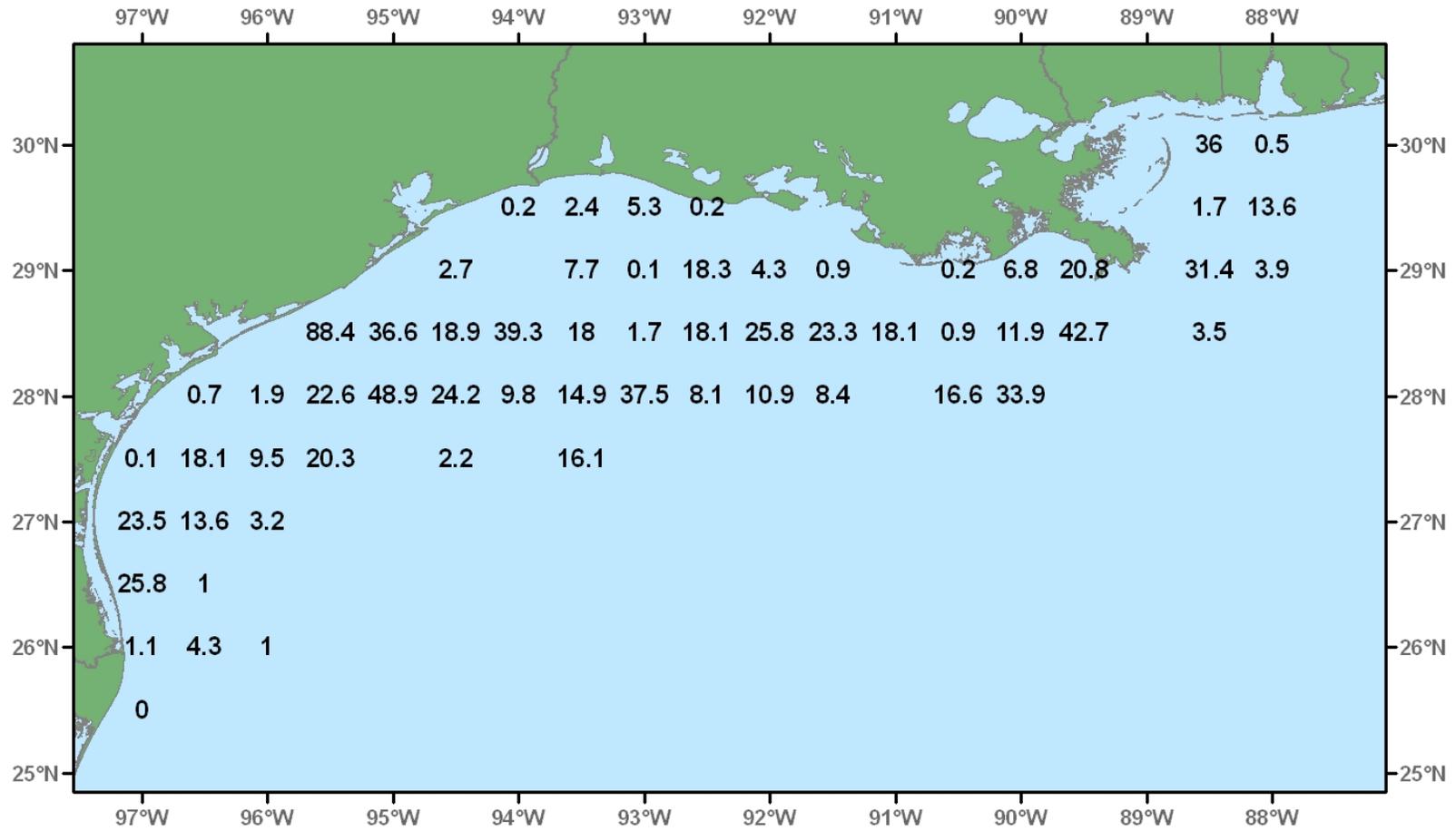


Figure 35. Brown shrimp, *Farfantepenaeus aztecus*, lb/hour for June-July 2006.

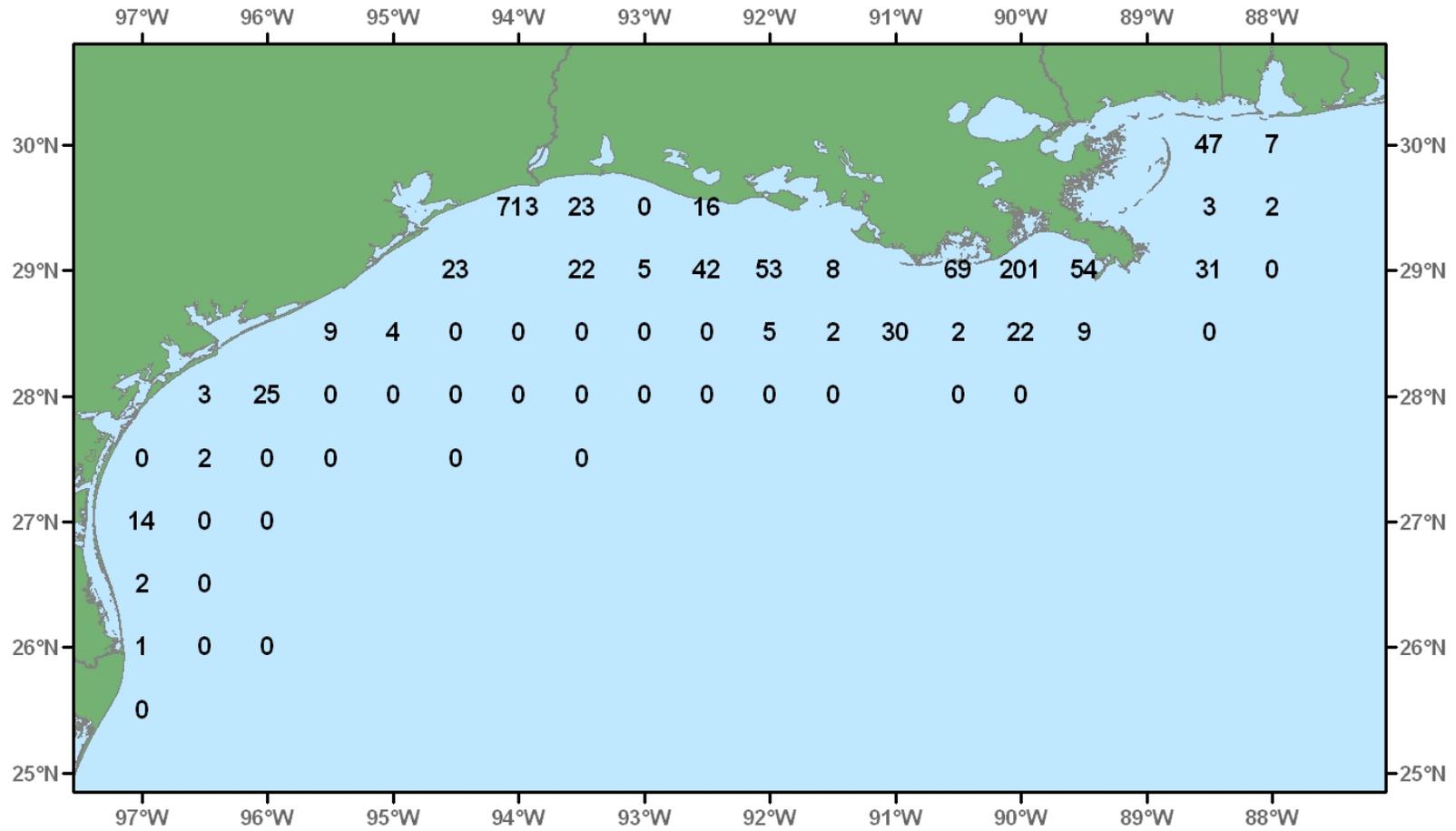


Figure 36. White shrimp, *Litopenaeus setiferus*, number/hour for June-July 2006.

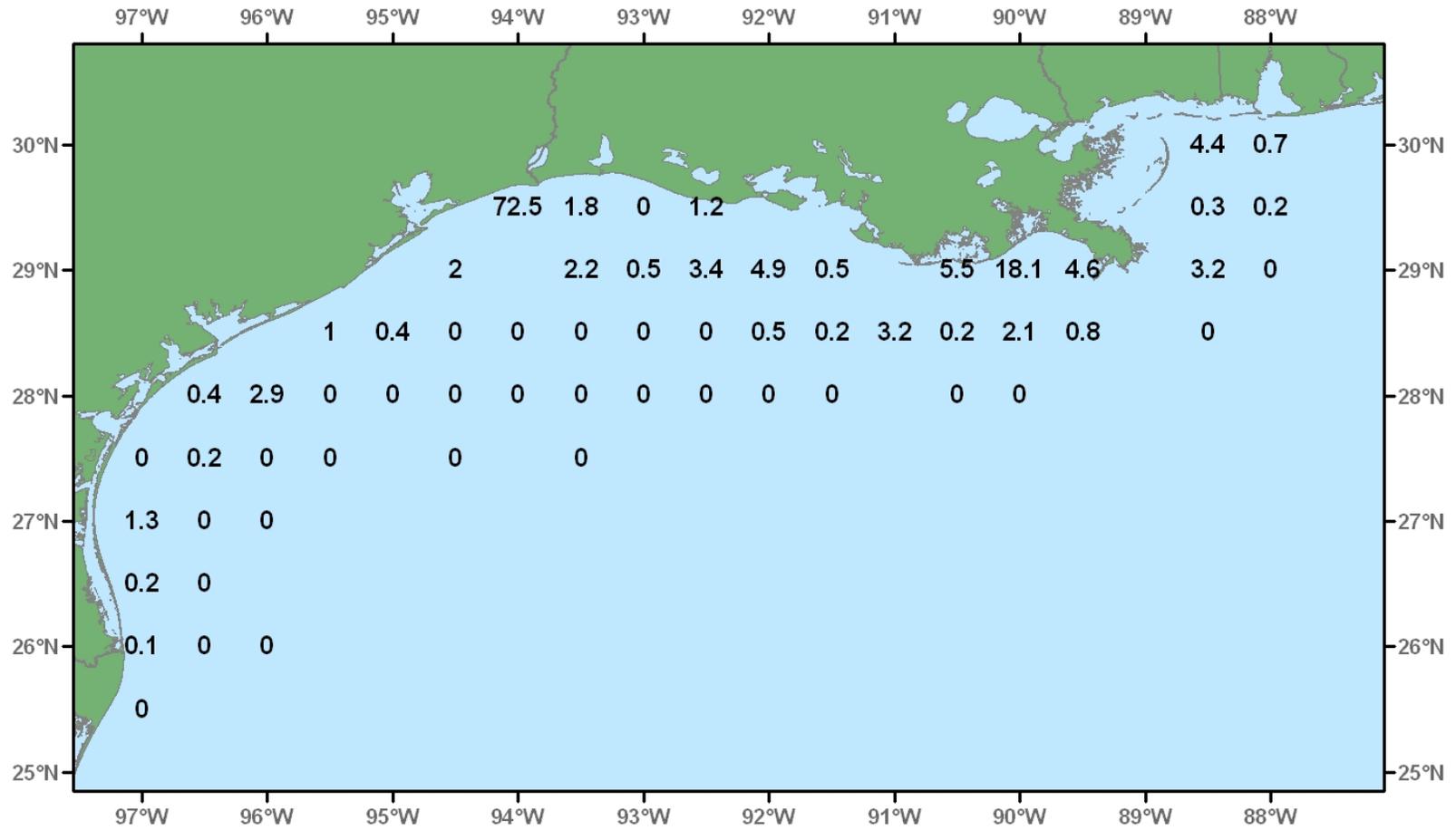


Figure 37. White shrimp, *Litopenaeus setiferus*, lb/hour for June-July 2006.

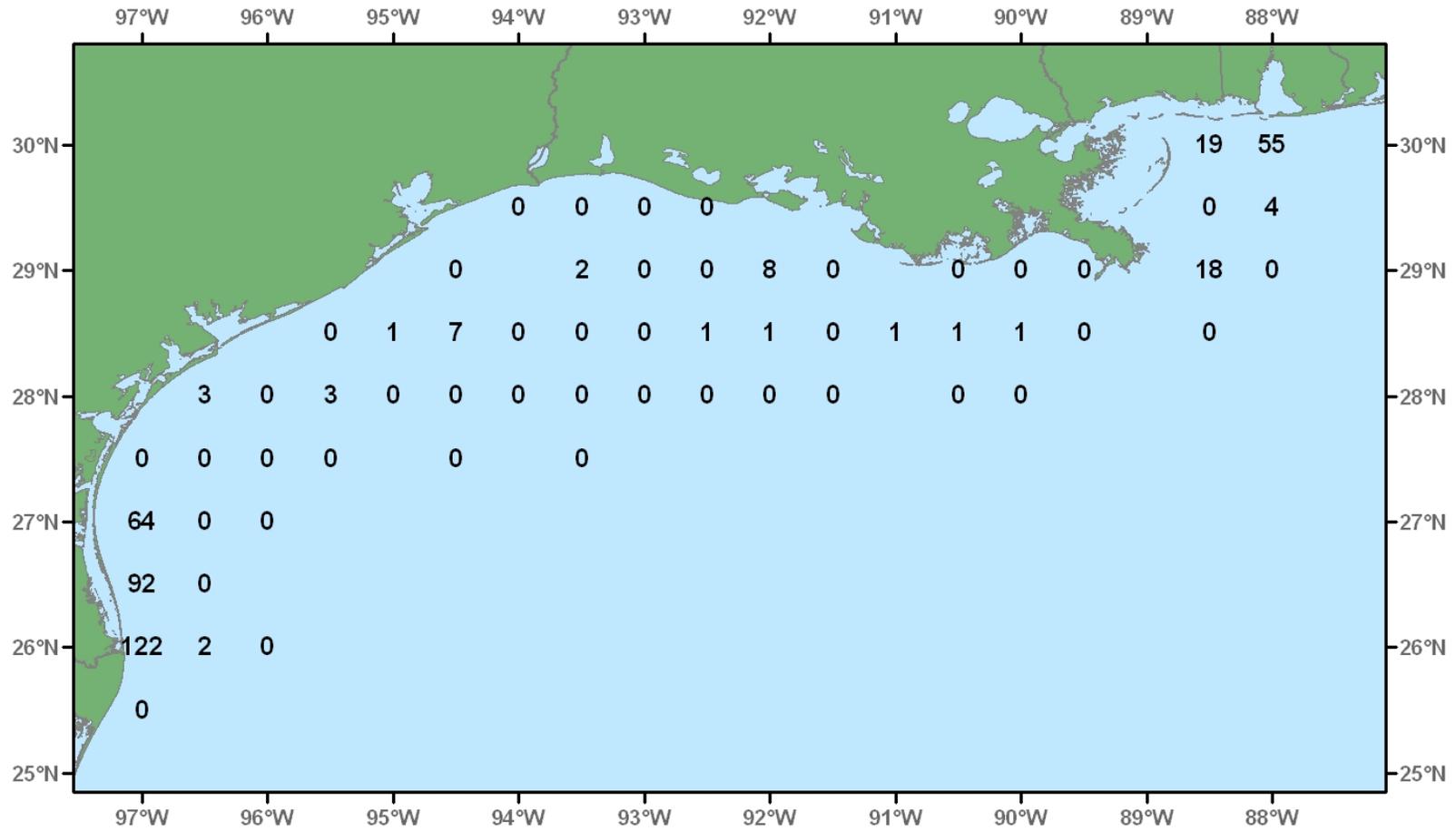


Figure 38. Pink shrimp, *Farfantepenaeus duorarum*, number/hour for June-July 2006.

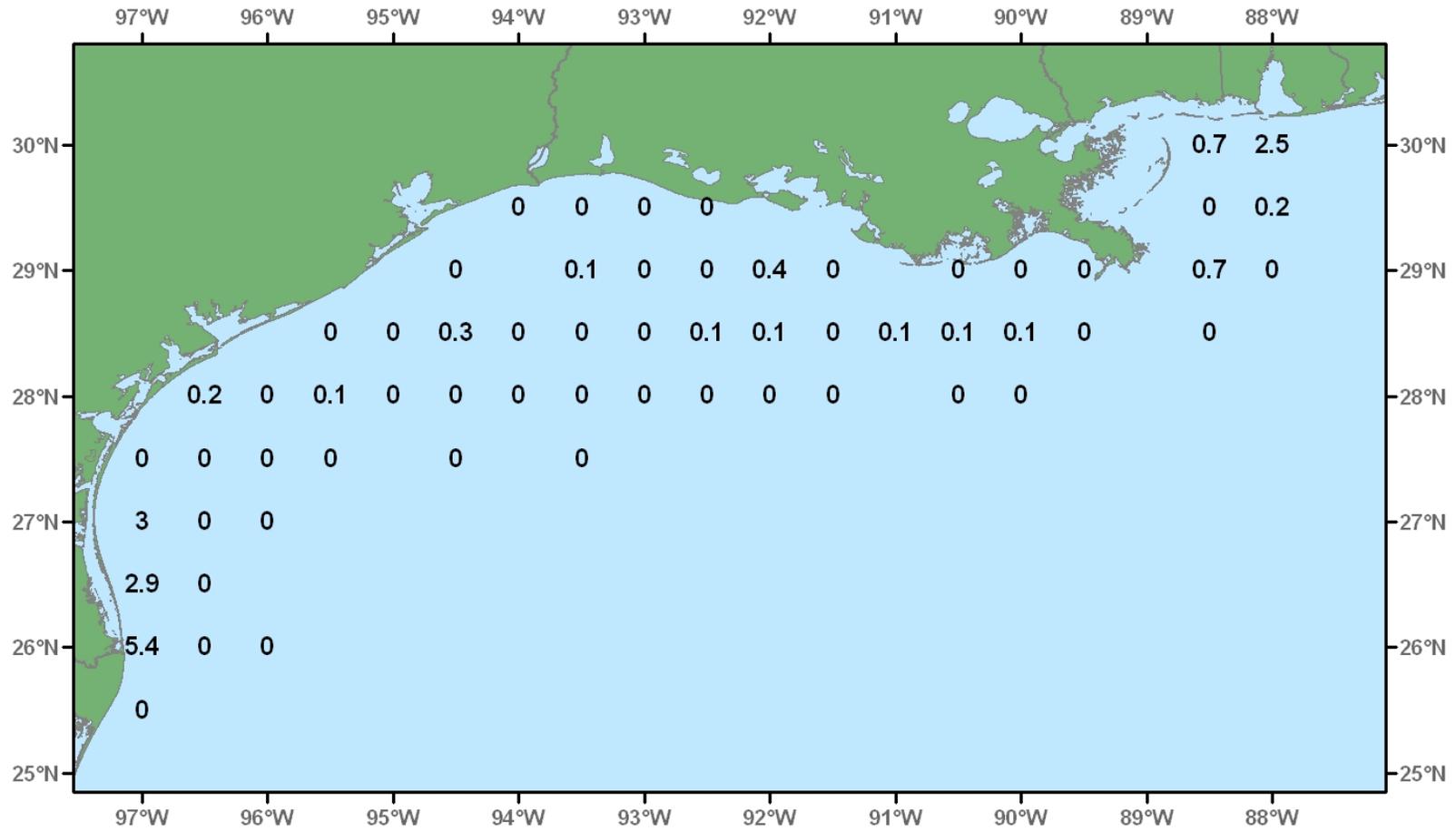


Figure 39. Pink shrimp, *Farfantepenaeus duorarum*, lb/hour for June-July 2006.

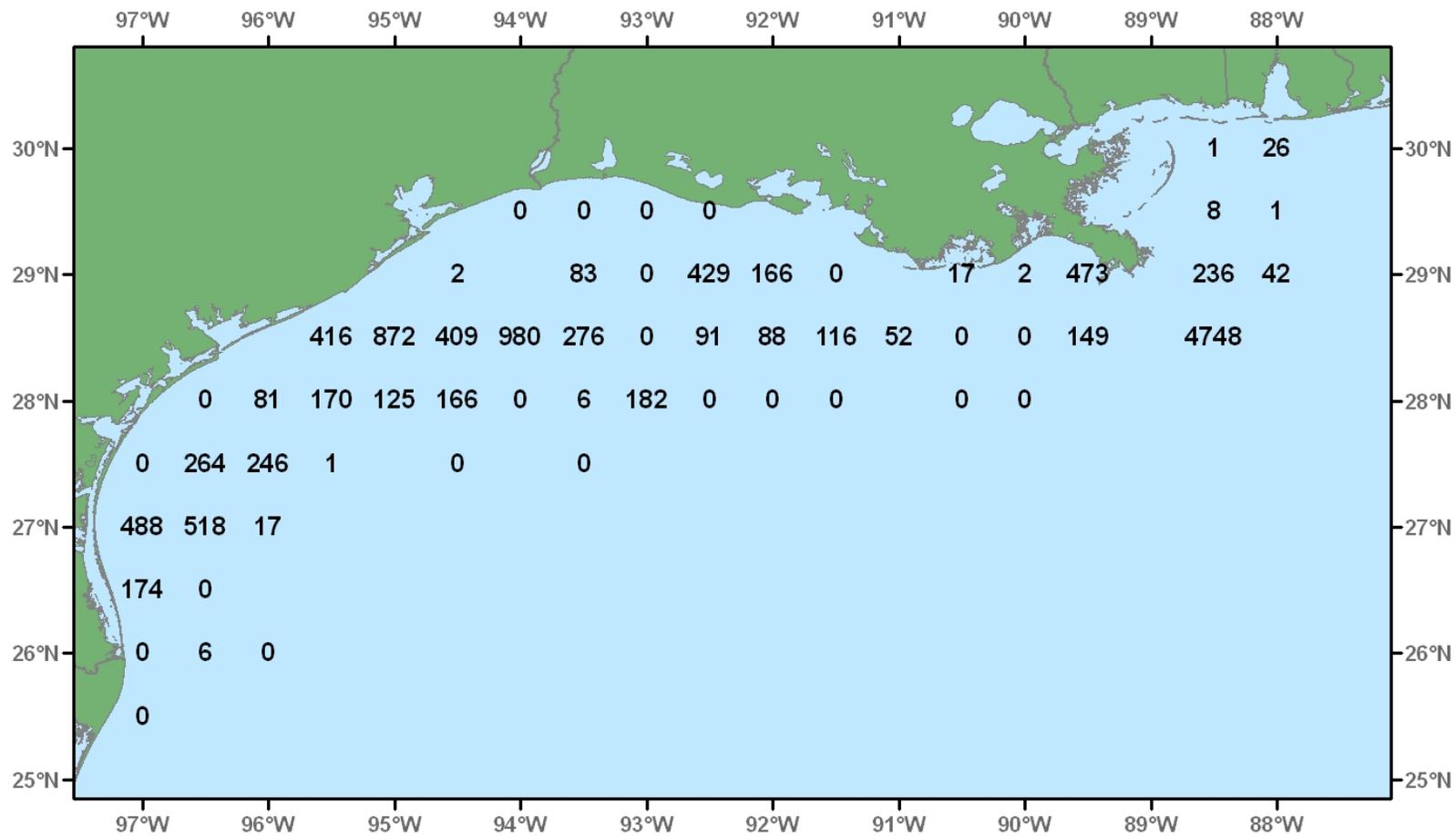


Figure 40. Roughback shrimp, *Trachypenaeus similis*, number/hour for June-July 2006.

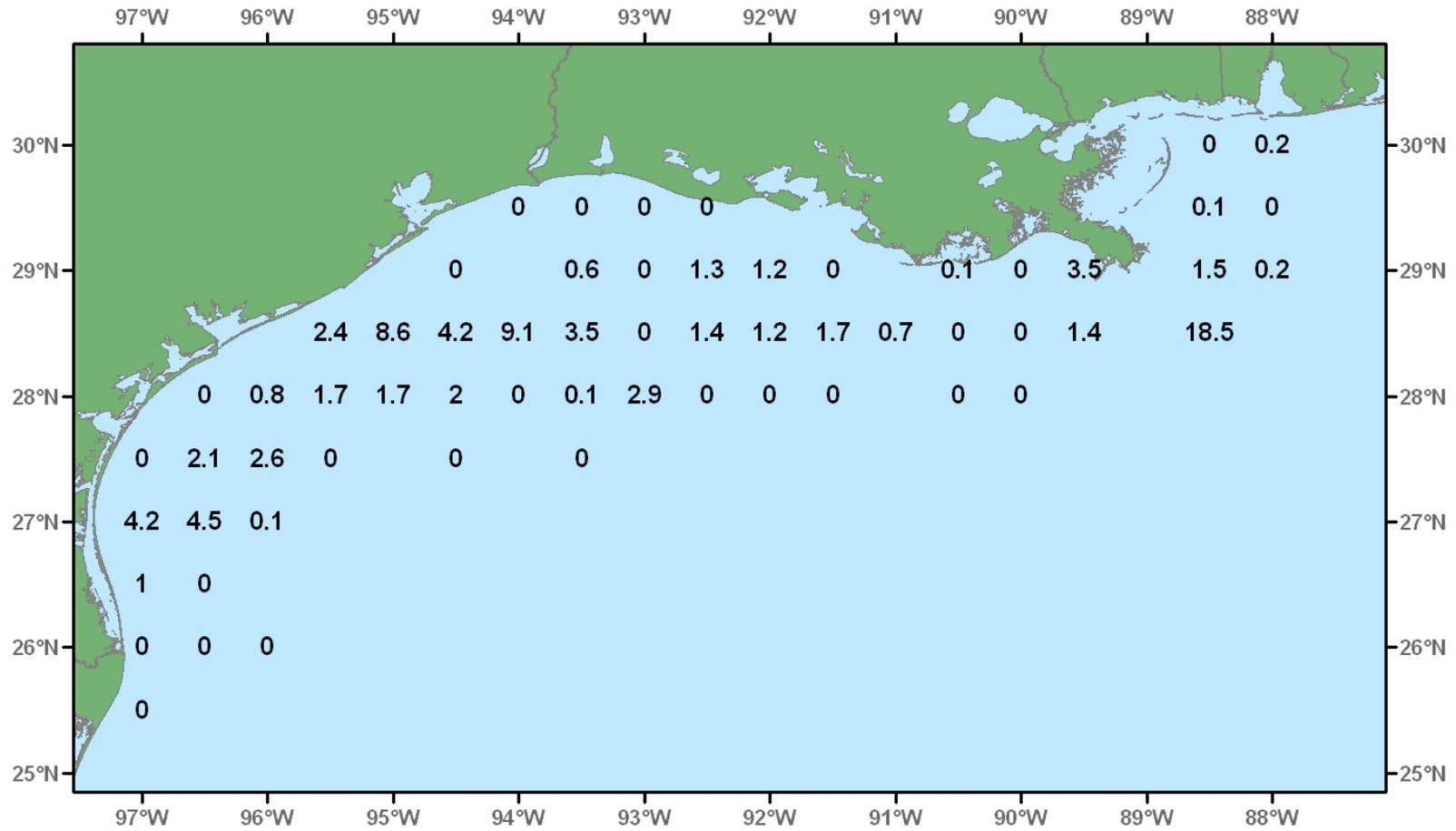


Figure 41. Roughback shrimp, *Trachypenaeus similis*, lb/hour for June-July 2006.

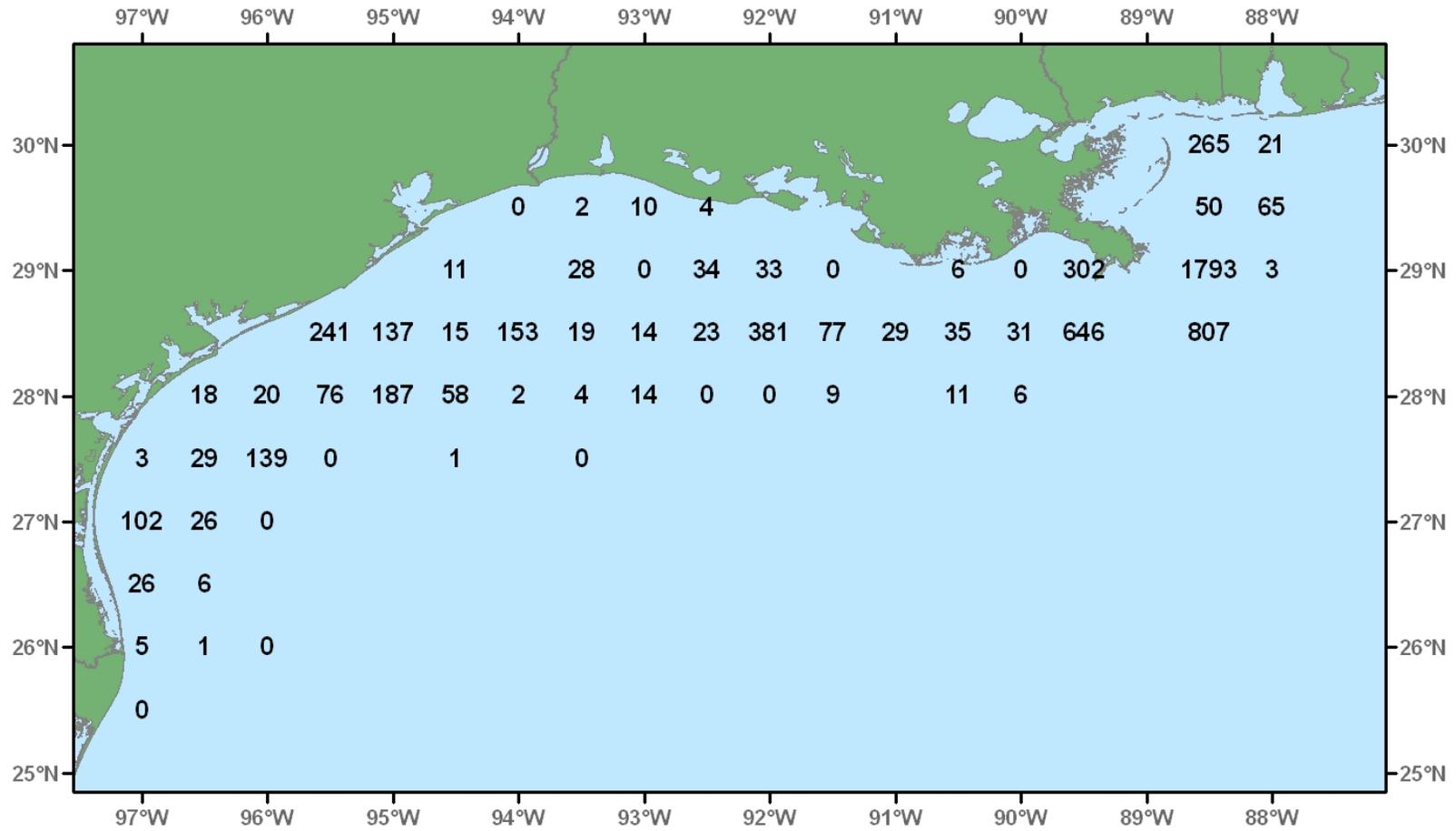


Figure 42. Lesser blue crab, *Callinectes similis*, number/hour for June-July 2006.

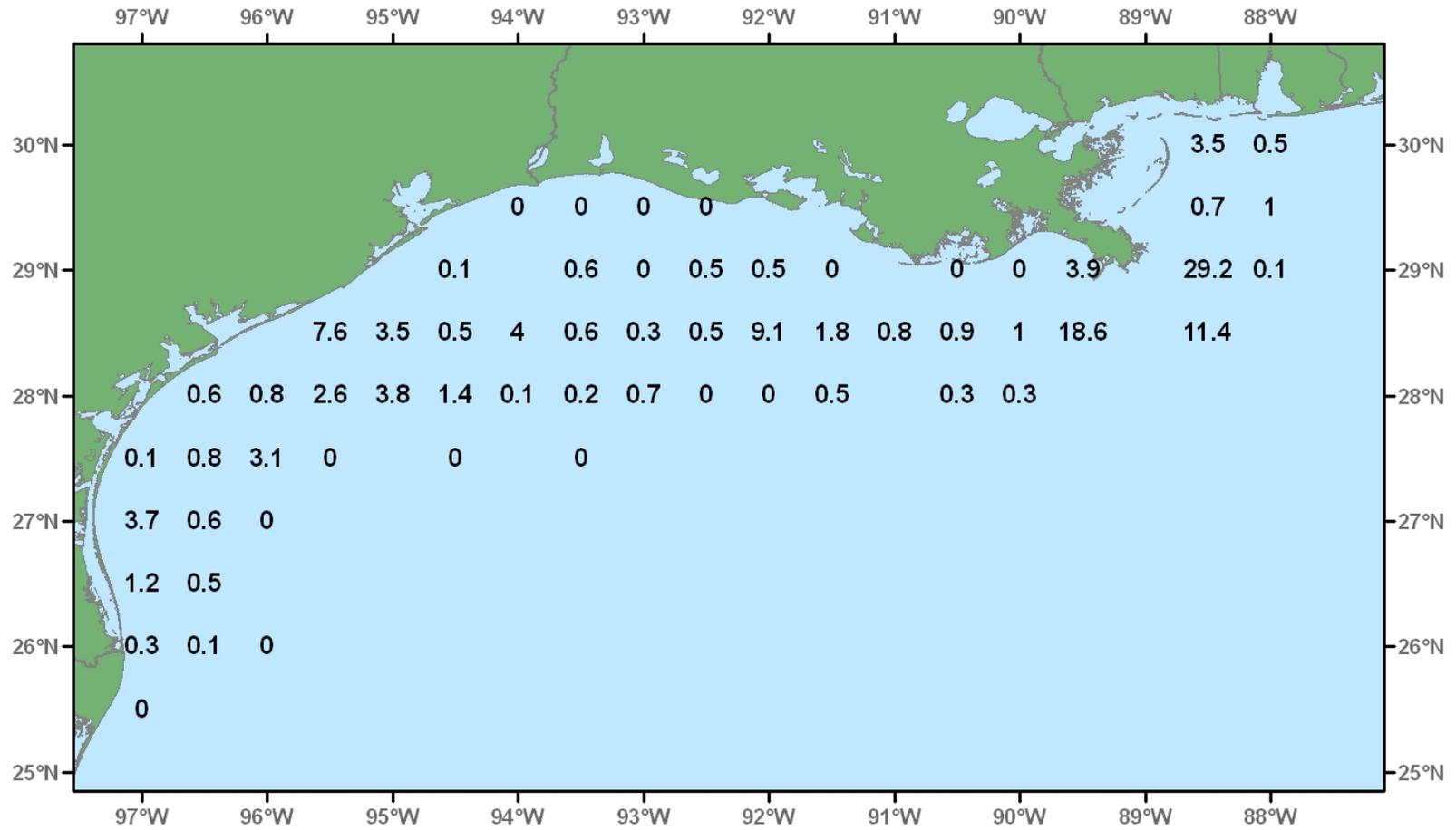


Figure 43. Lesser blue crab, *Callinectes similis*, lb/hour for June-July 2006.

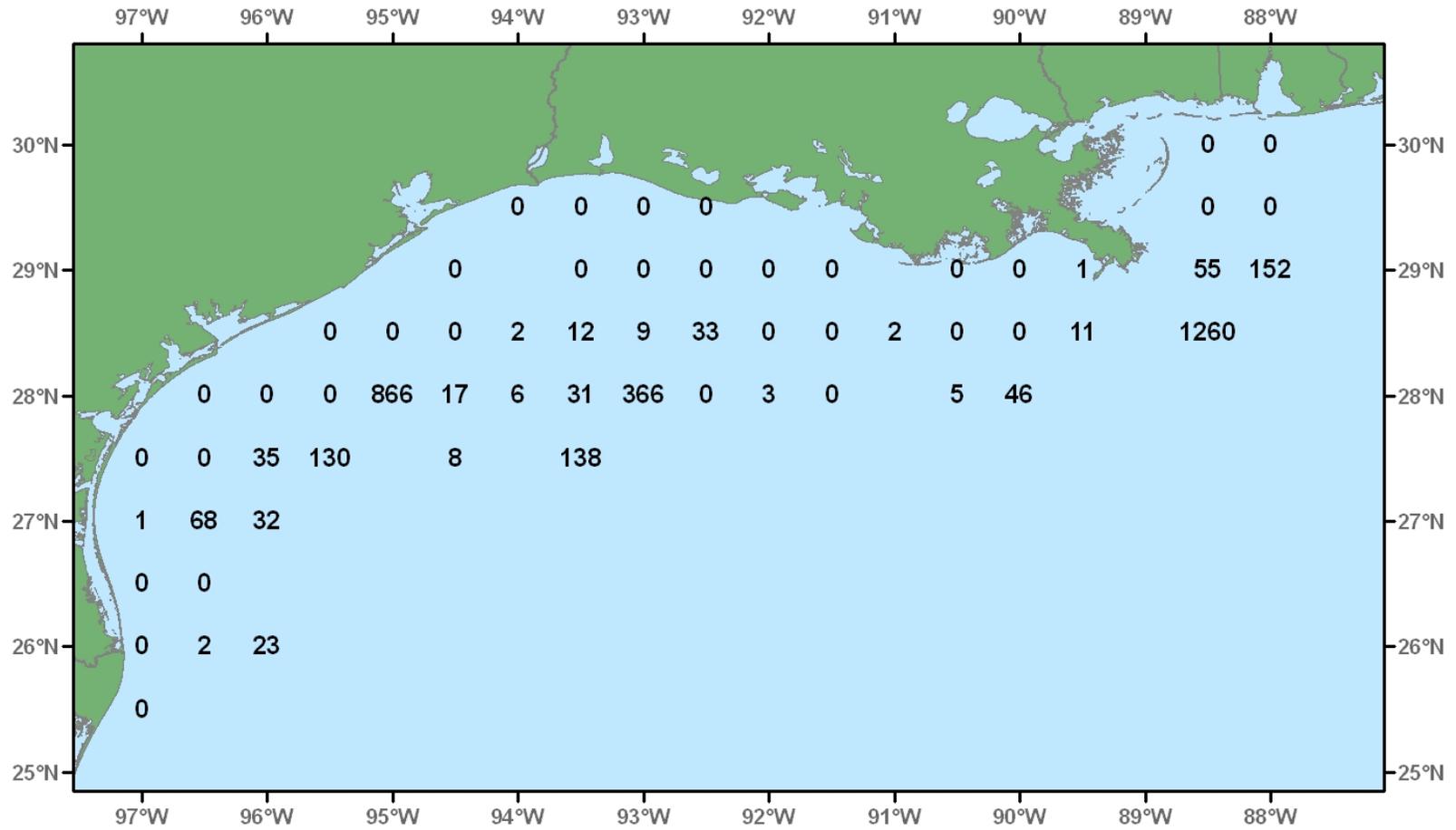


Figure 44. Longspine swimming crab, *Portunus spinicarpus*, number/hour for June-July 2006.

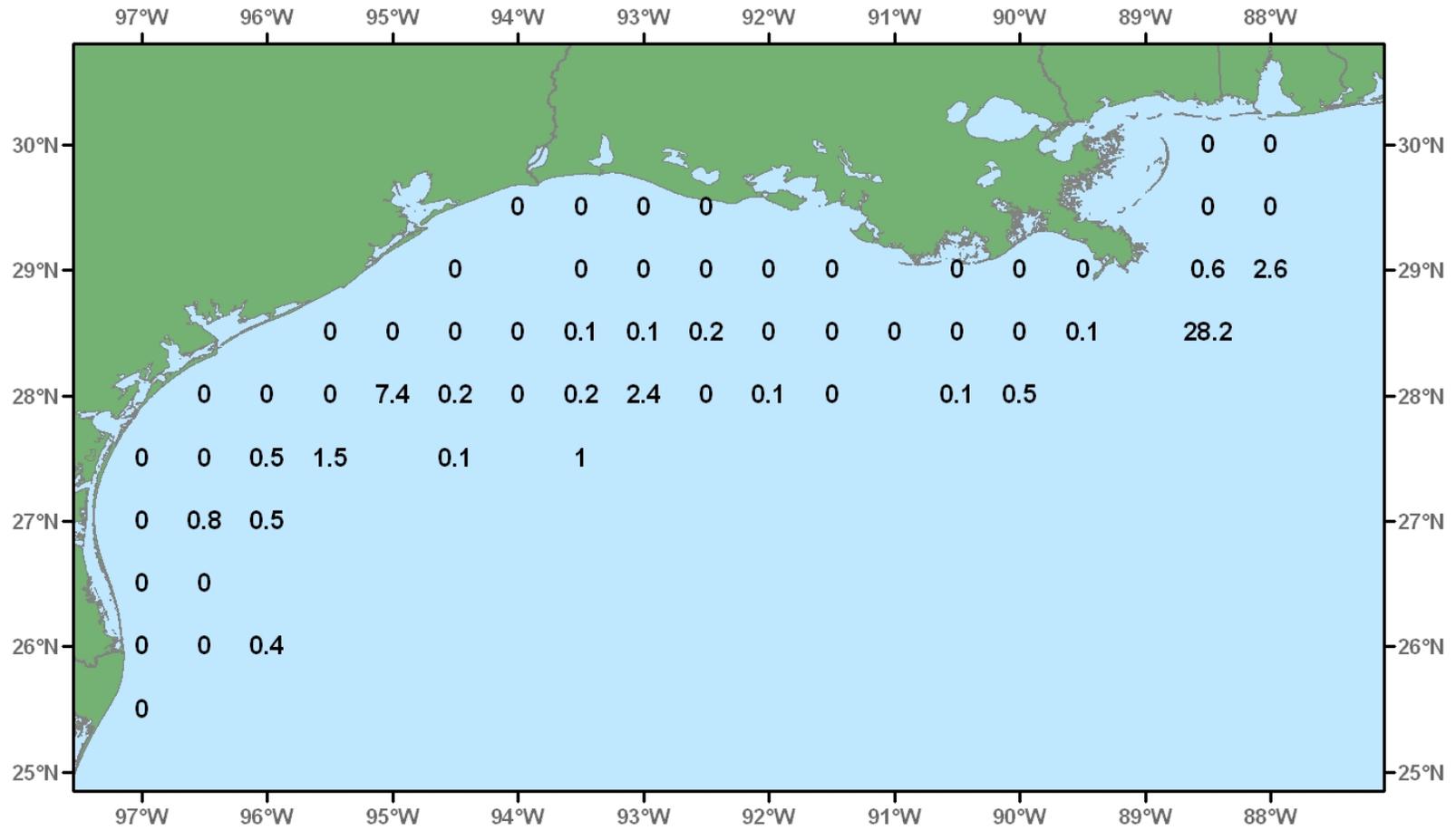


Figure 45. Longspine swimming crab, *Portunus spinicarpus*, lb/hour for June-July 2006.

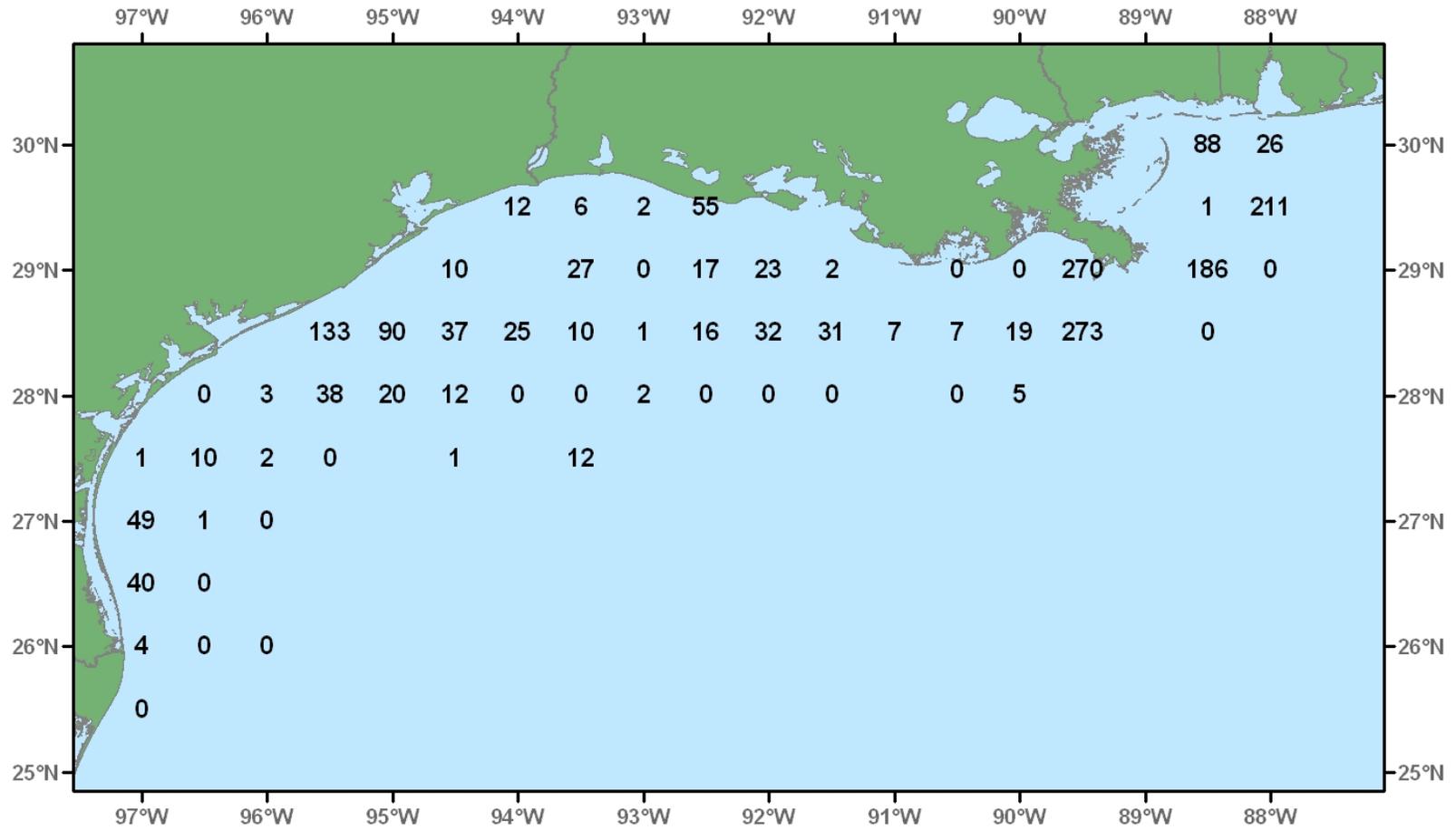


Figure 46. Mantis shrimp, *Squilla empusa*, number/hour for June-July 2006.

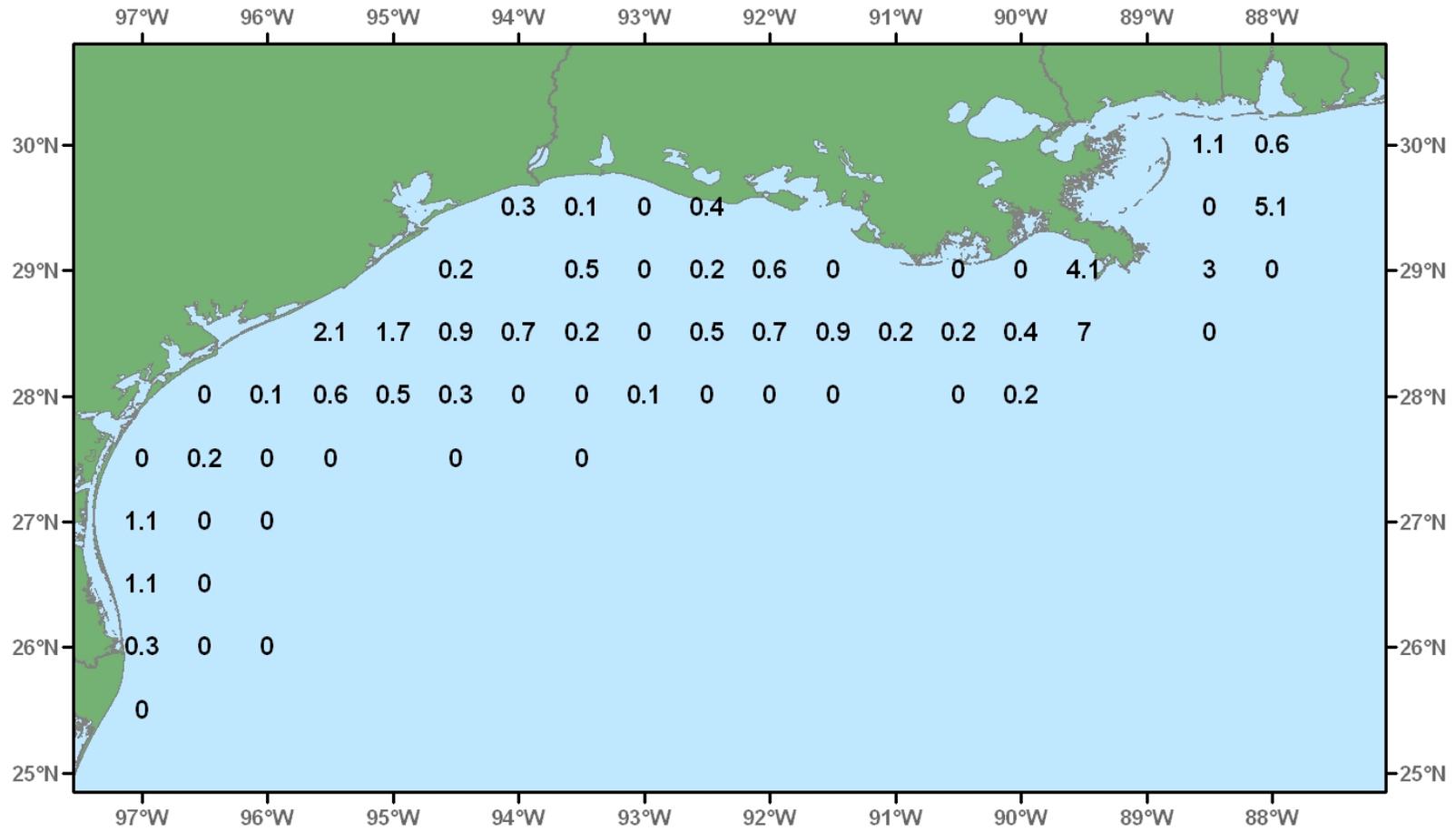


Figure 47. Mantis shrimp, *Squilla empusa*, lb/hour for June-July 2006.

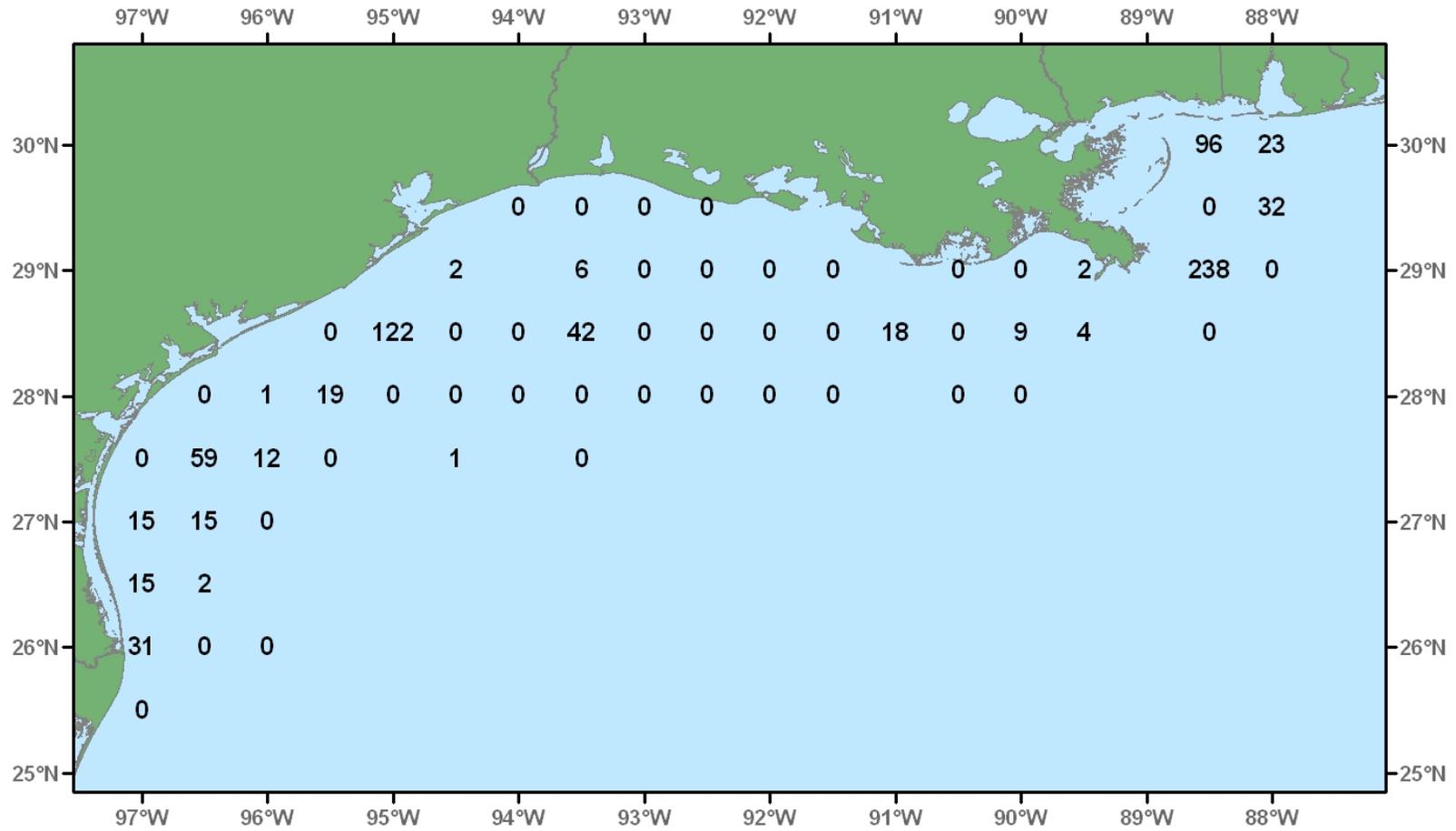


Figure 48. Roughneck shrimp, Trachypenaeus constrictus, number/hour for June-July 2006.

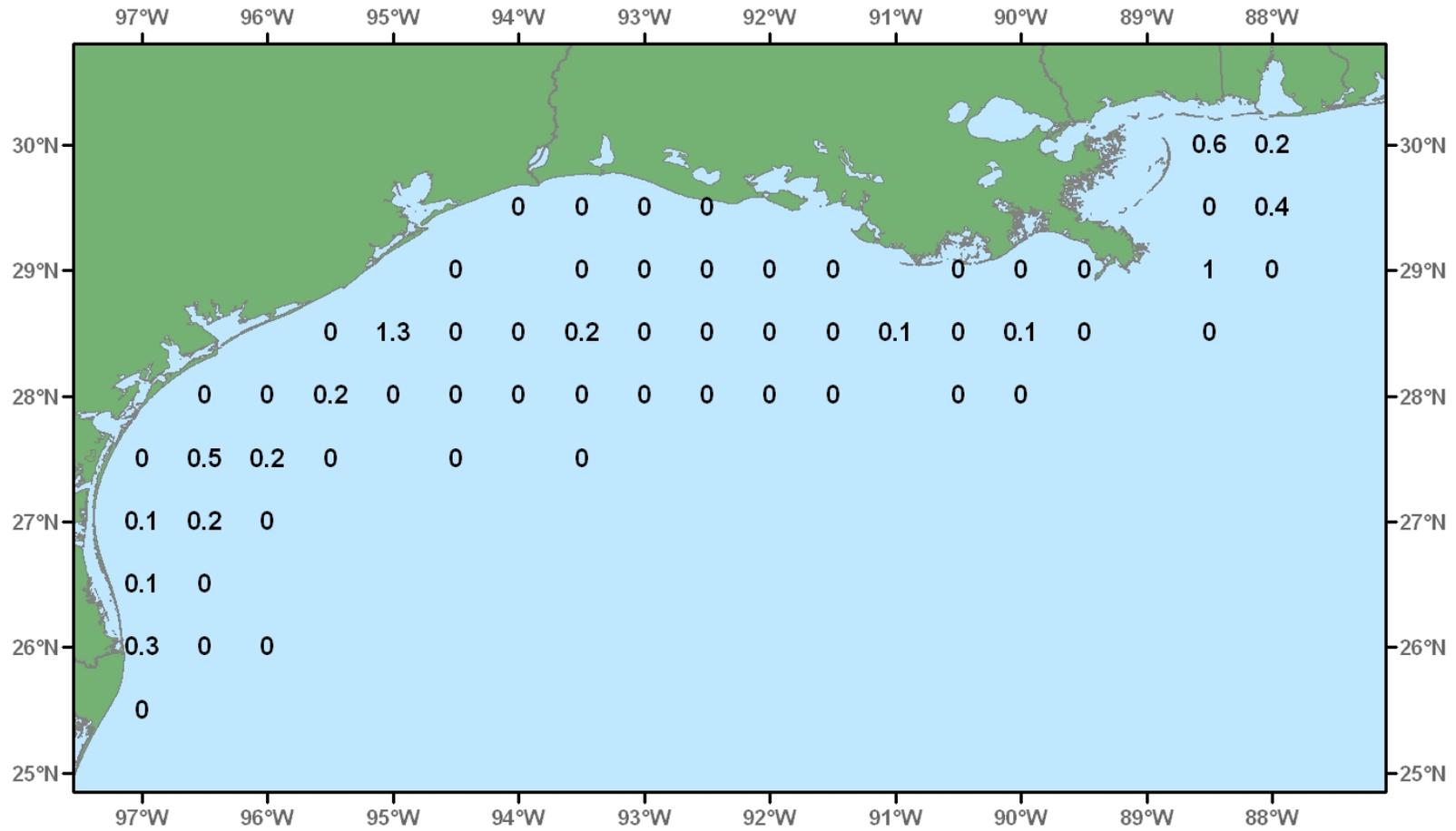


Figure 49. Roughneck shrimp, *Trachypenaeus constrictus*, lb/hour for June-July 2006.

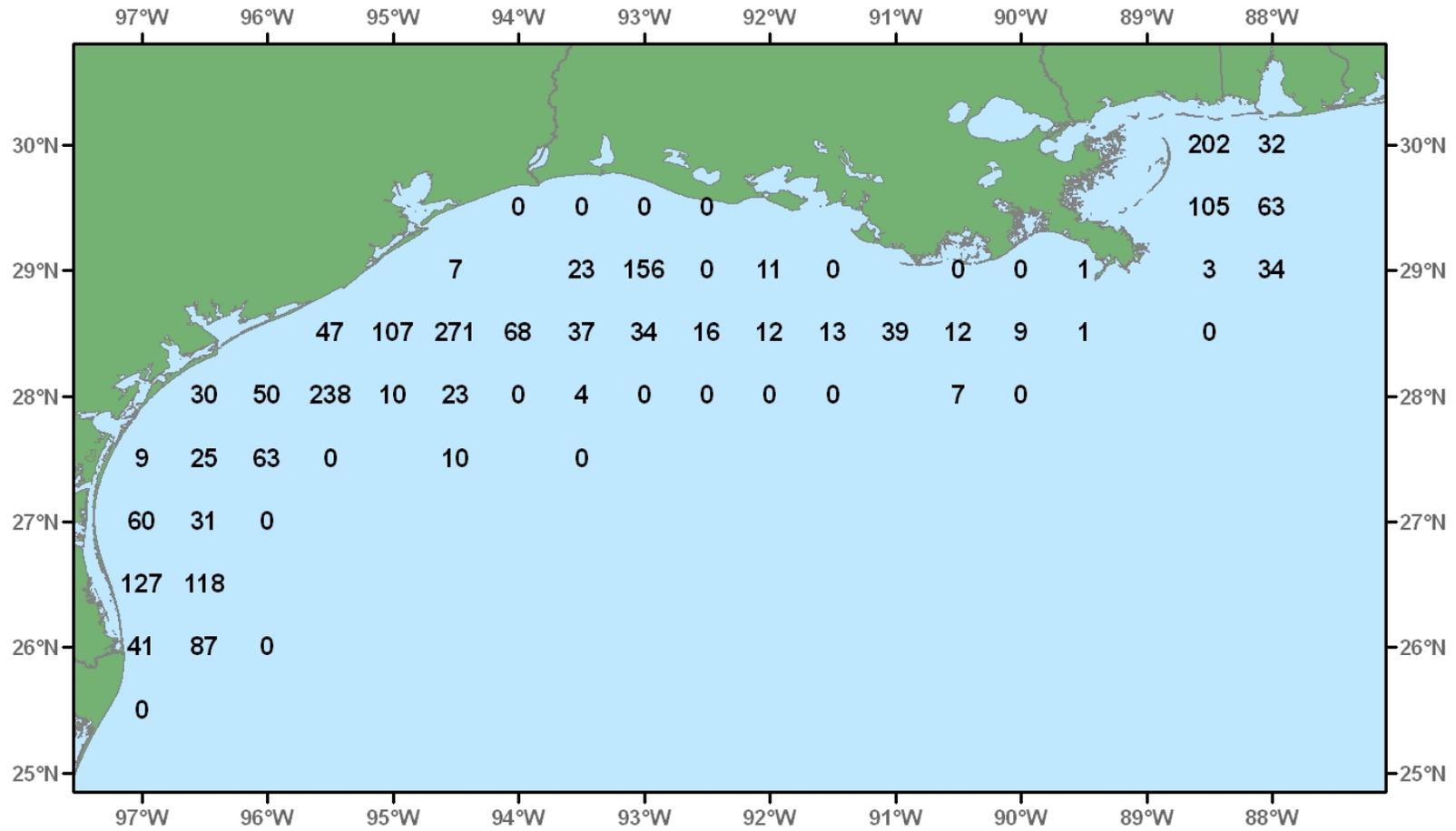


Figure 50. Arrow squid, *Loligo pleii*, number/hour for June-July 2006.

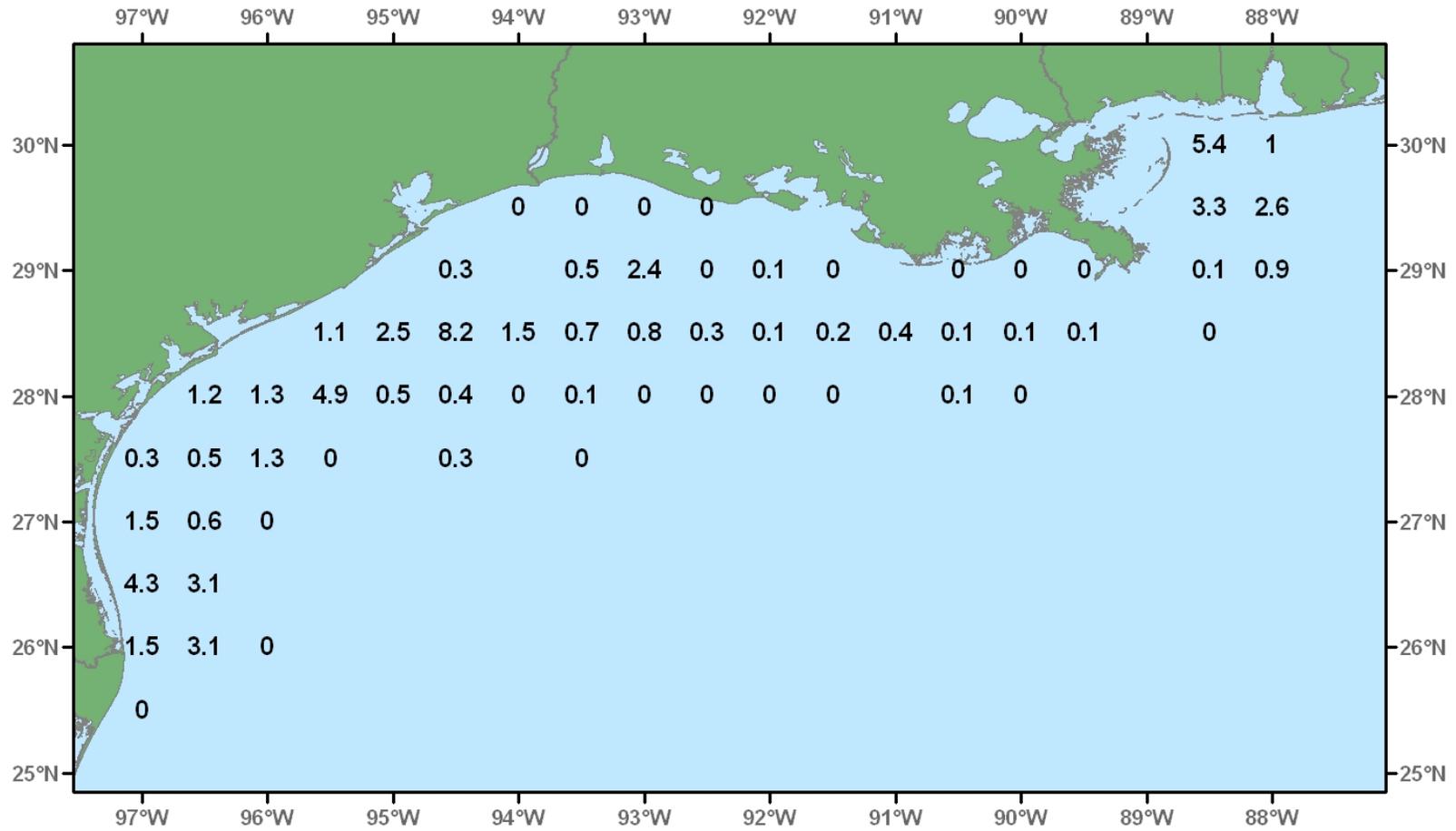


Figure 51. Arrow squid, *Loligo pleii*, lb/hour for June-July 2006.

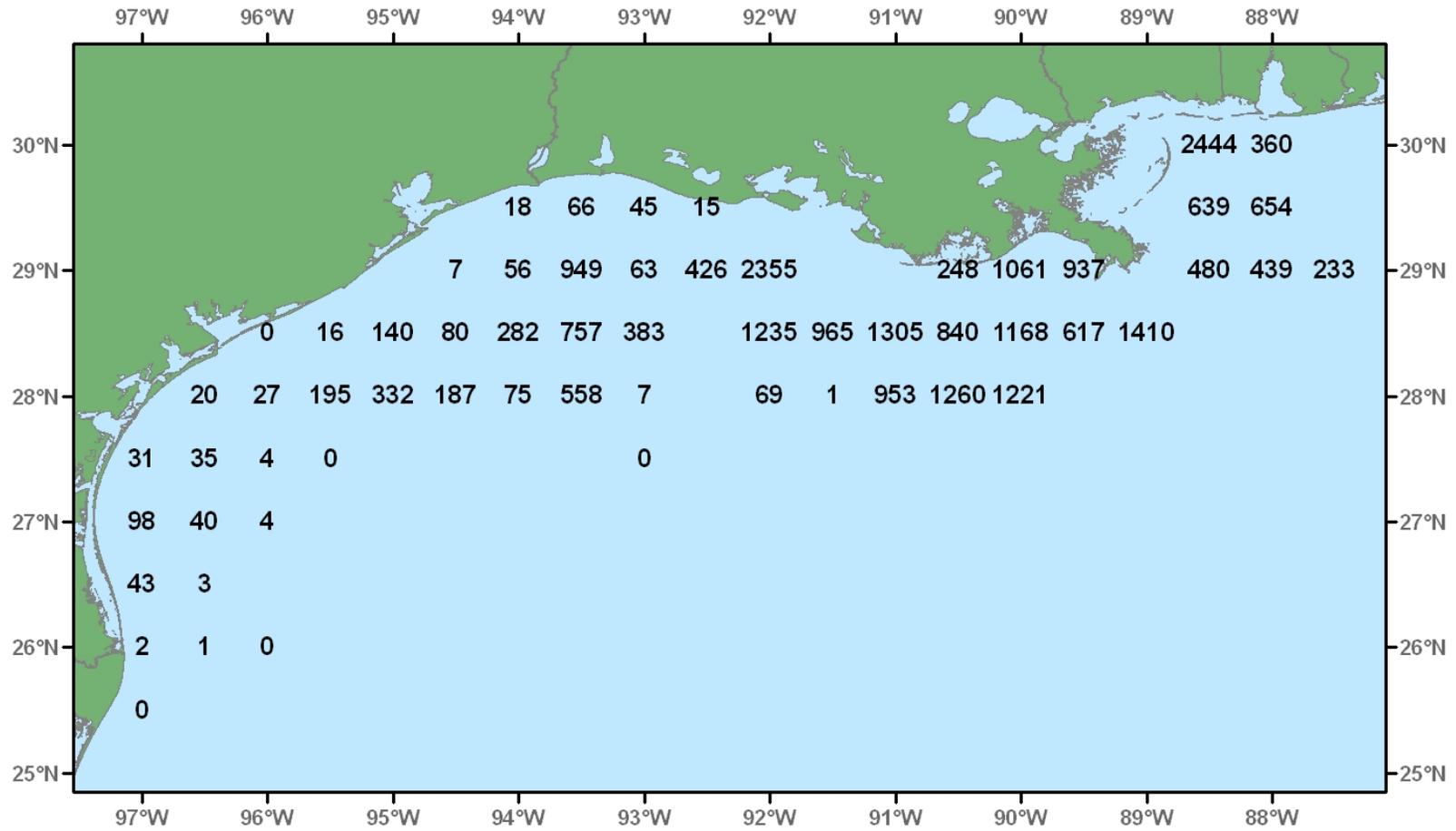


Figure 52. Atlantic croaker, *Micropogonias undulatus*, number/hour for October-December 2006.

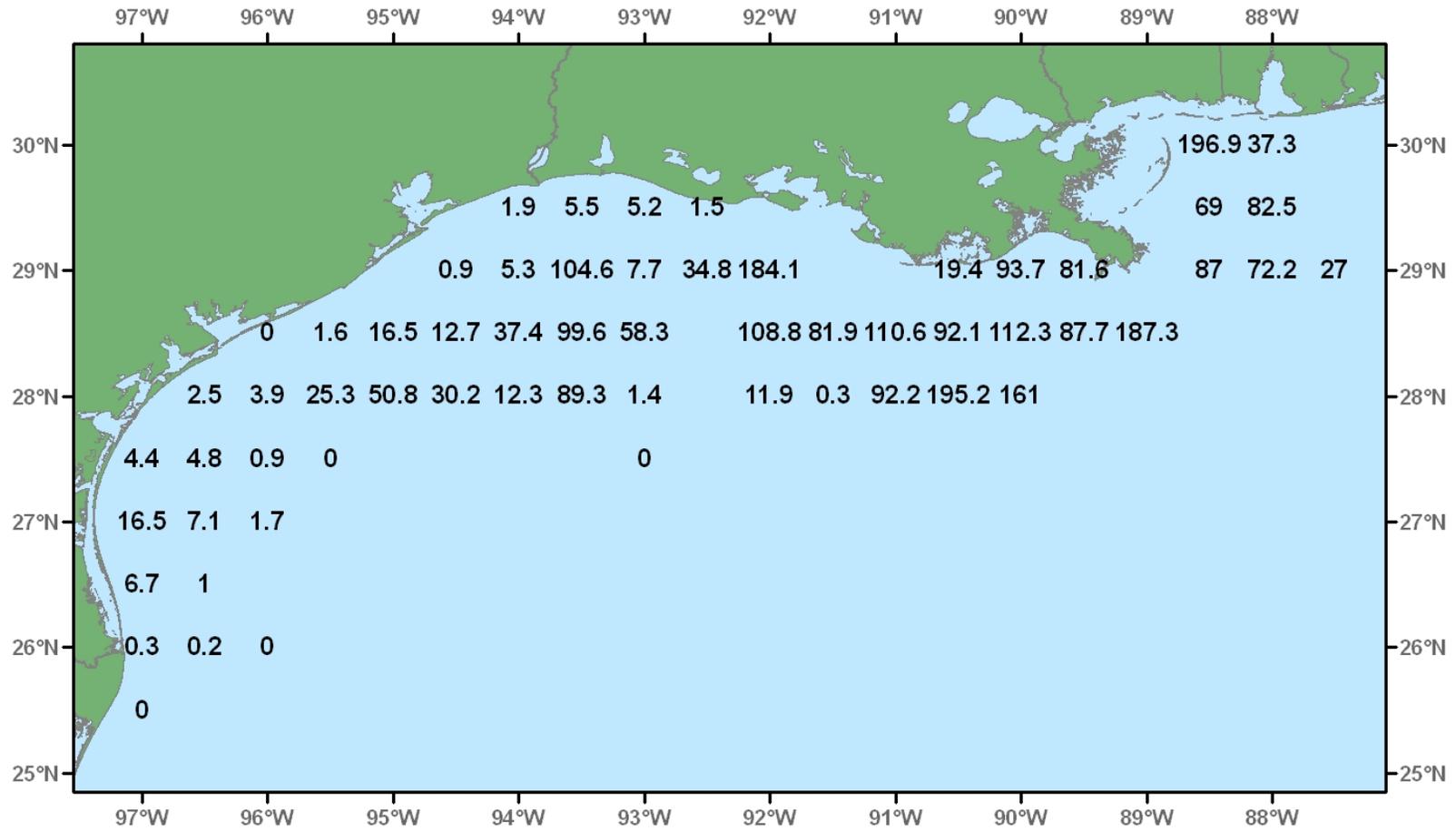


Figure 53. Atlantic croaker, *Micropogonias undulatus*, lb/hour for October-December 2006.

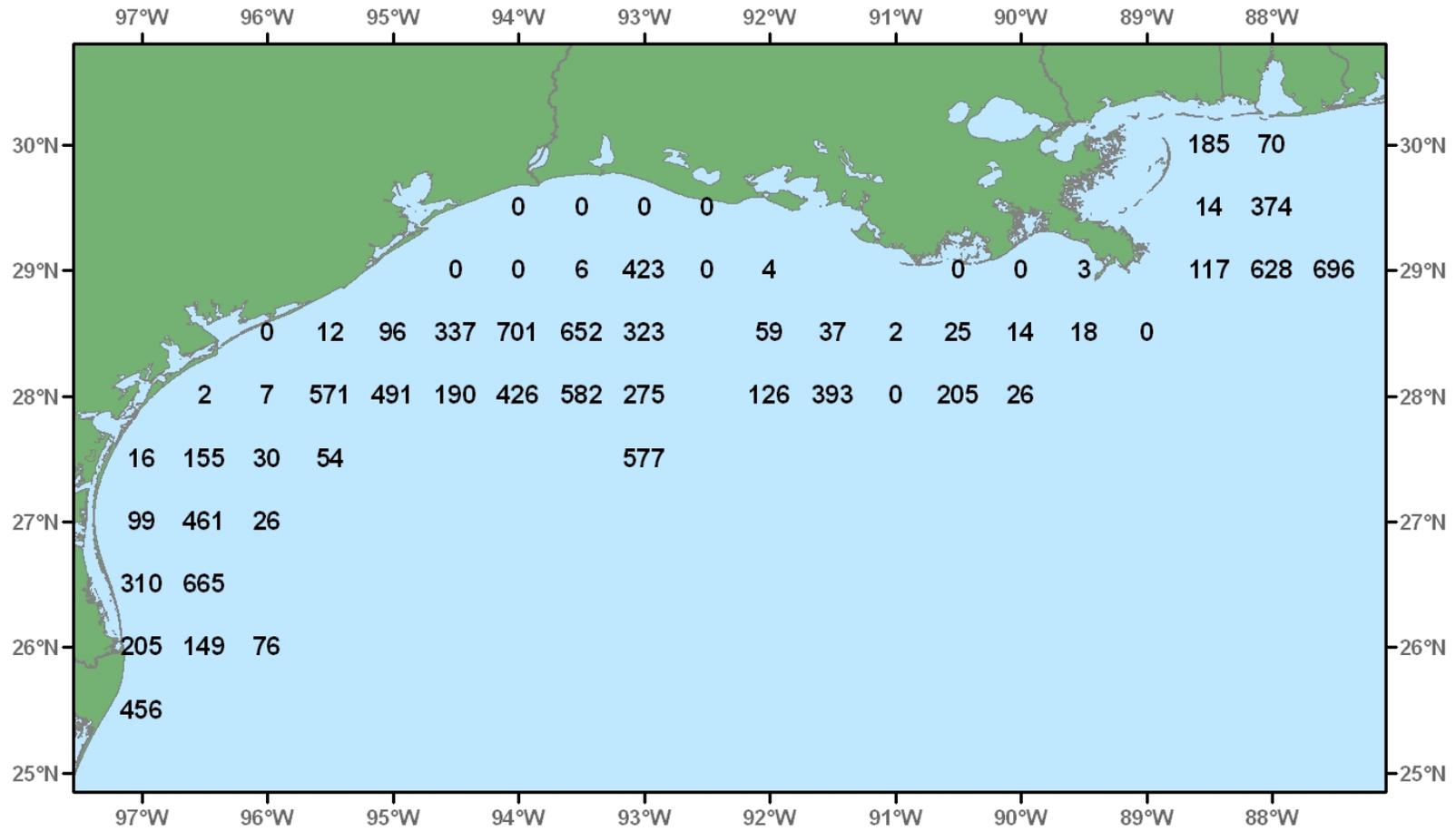


Figure 54. Longspine pogy, *Stenotomus caprinus*, number/hour for October-December 2006.

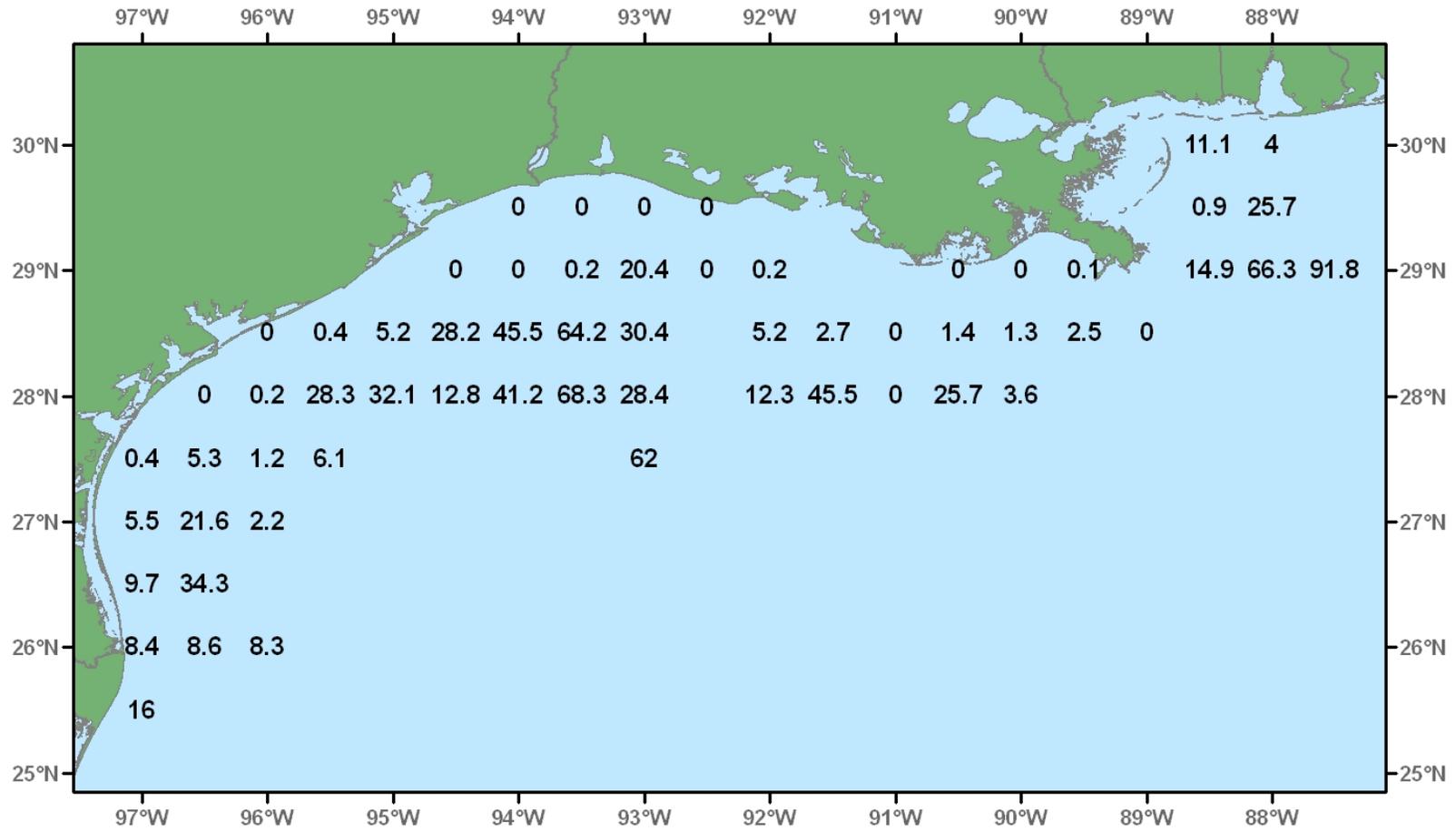


Figure 55. Longspine pogy, *Stenotomus caprinus*, lb/hour for October-December 2006.

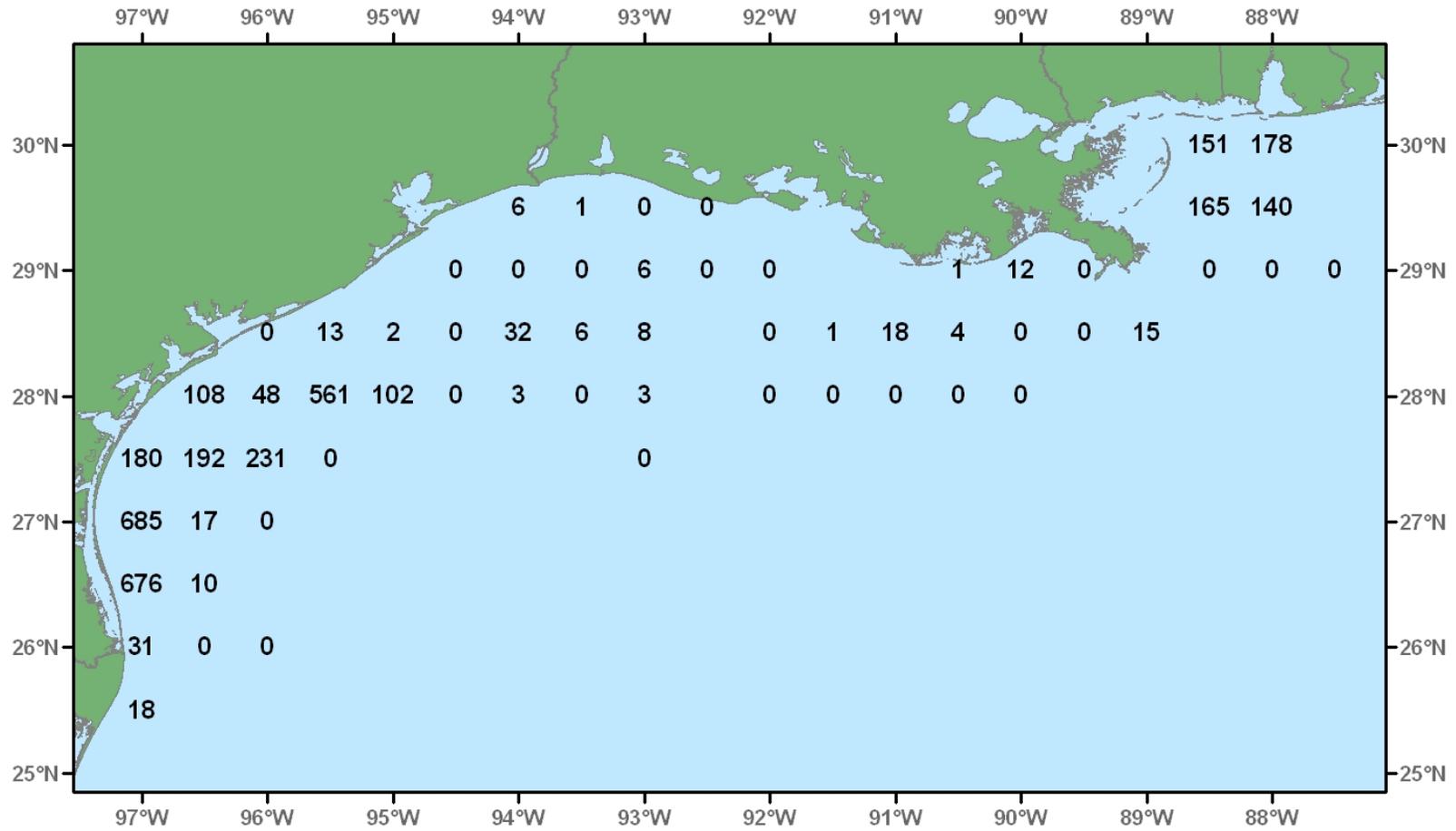


Figure 56. Atlantic bumper, *Chloroscombrus chrysurus*, number/hour for October-December 2006.

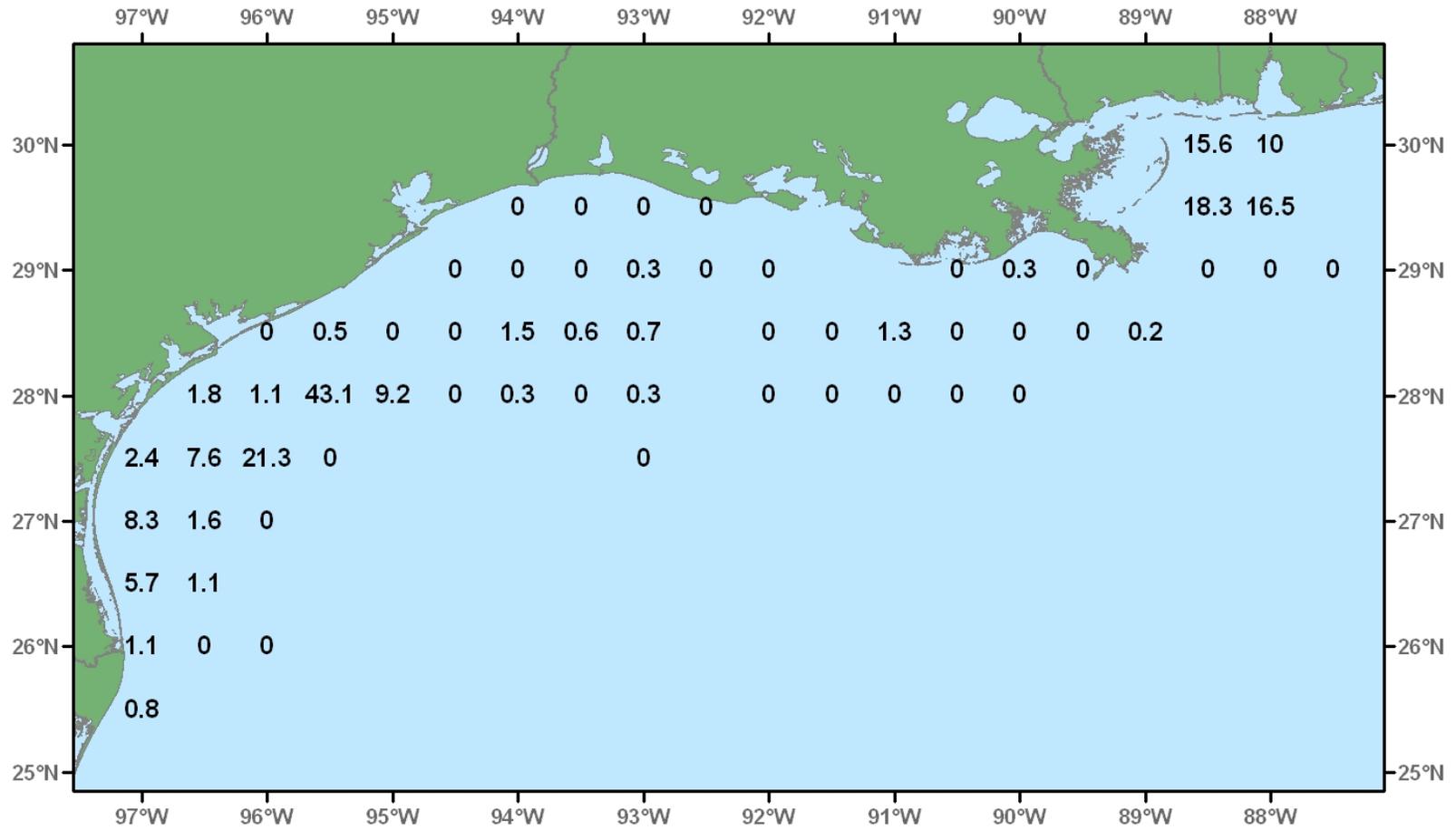


Figure 57. Atlantic bumper, *Chloroscombrus chrysurus*, lb/hour for October-December 2006.

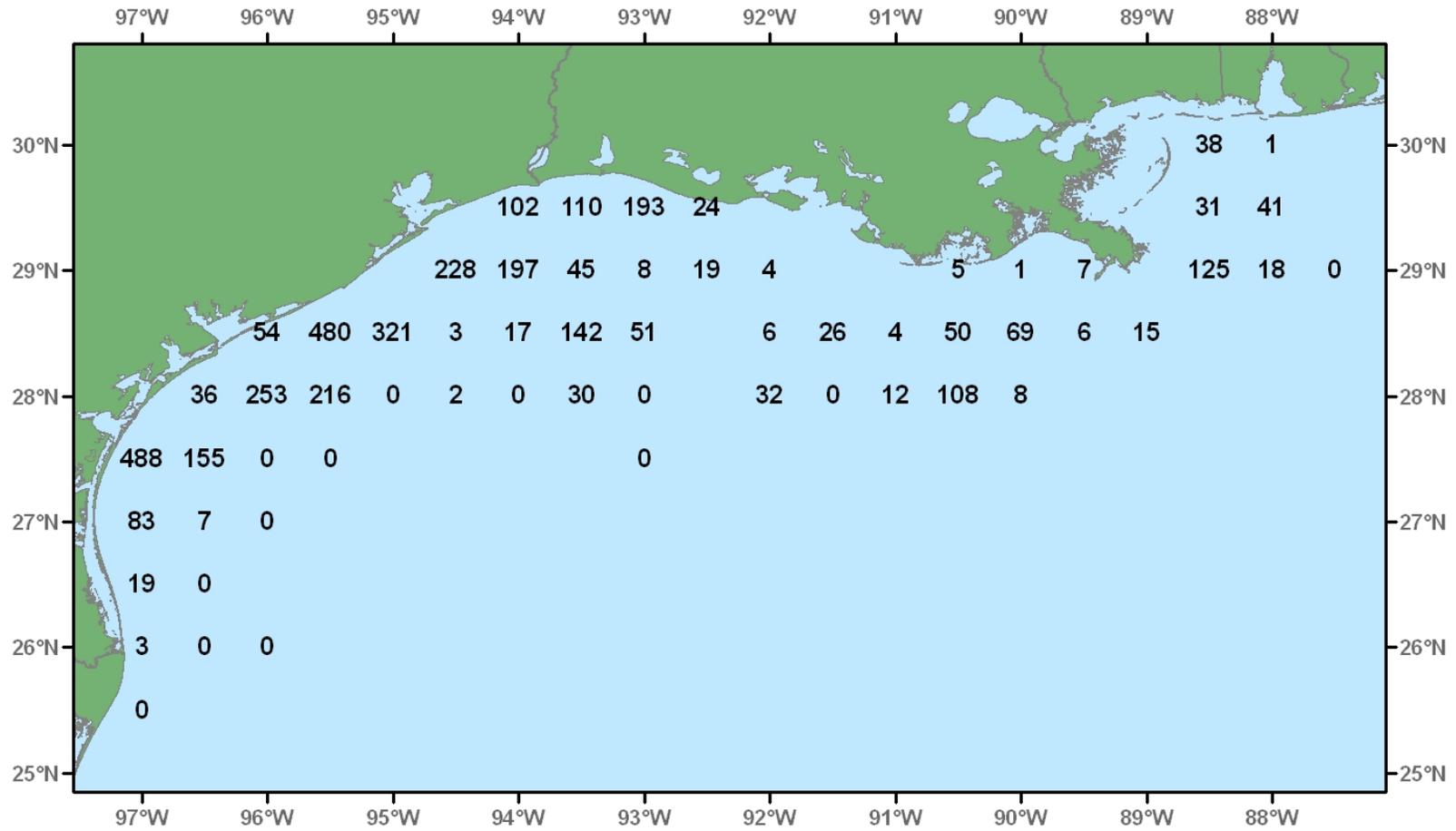


Figure 58. Silver seatrout, *Cynoscion nothus*, number/hour for October-December 2006.

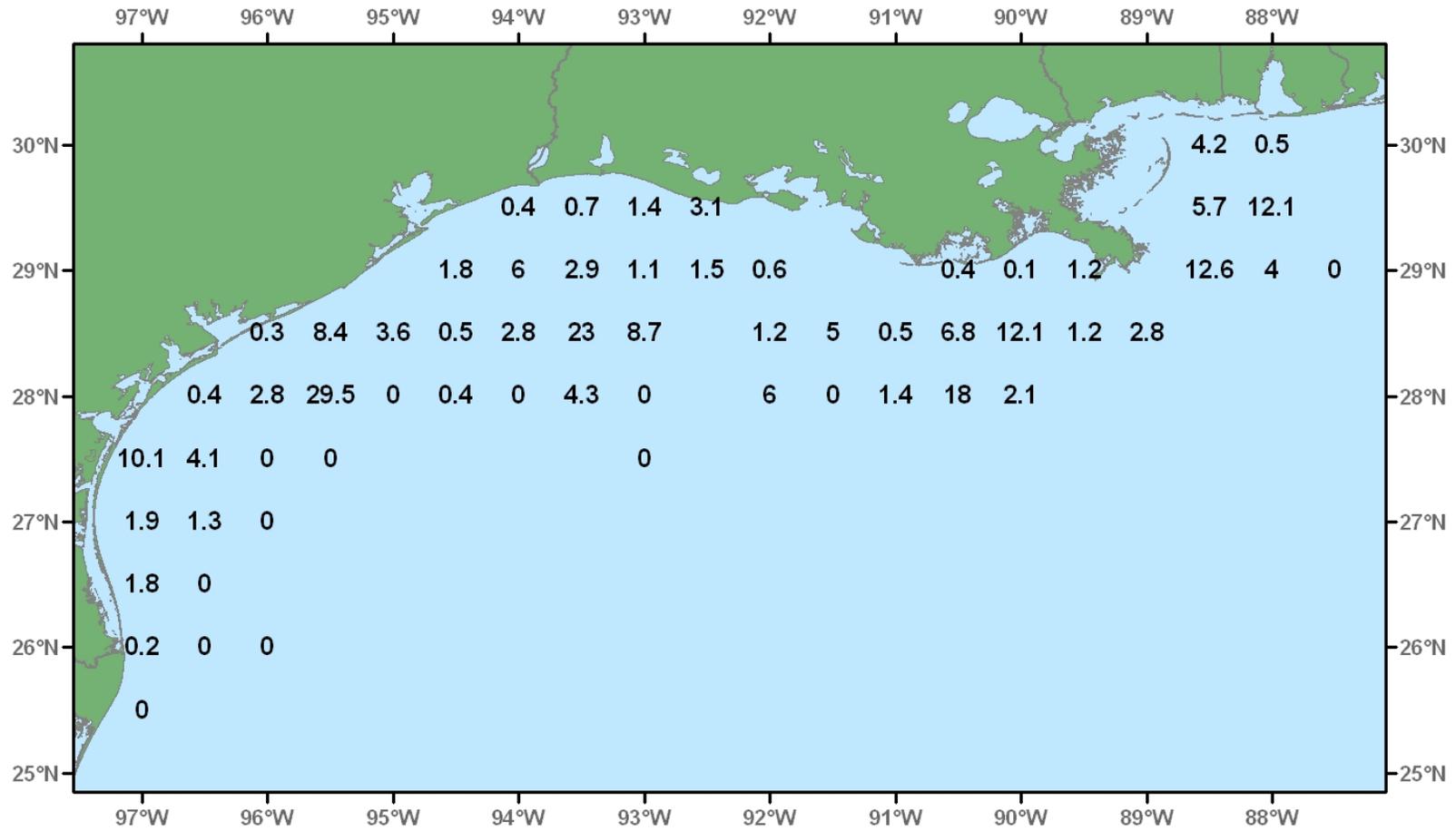


Figure 59. Silver seatrout, *Cynoscion nothus*, lb/hour for October-December 2006.

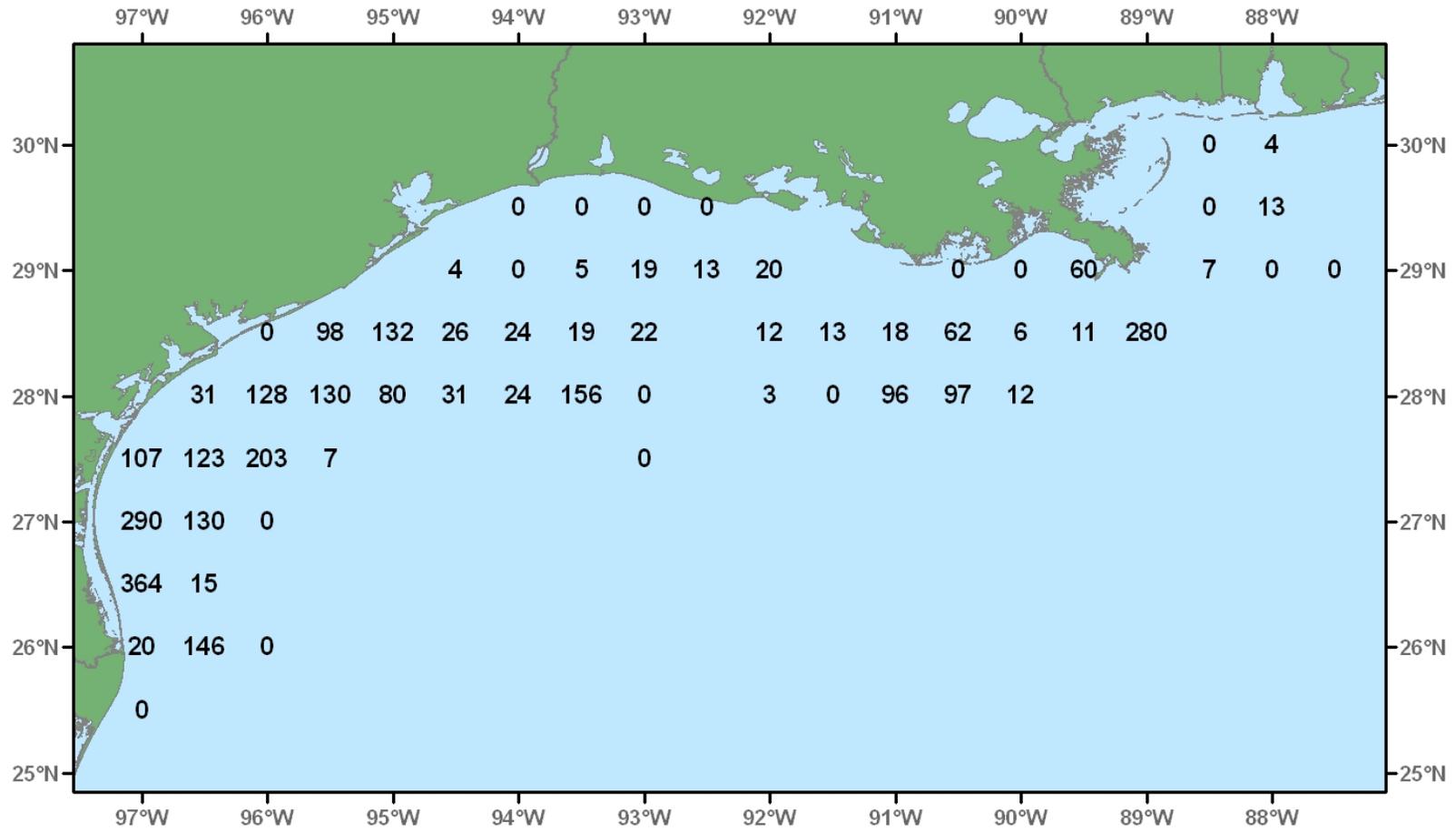


Figure 60. Shoal flounder, *Syacium gunteri*, number/hour for October-December 2006.

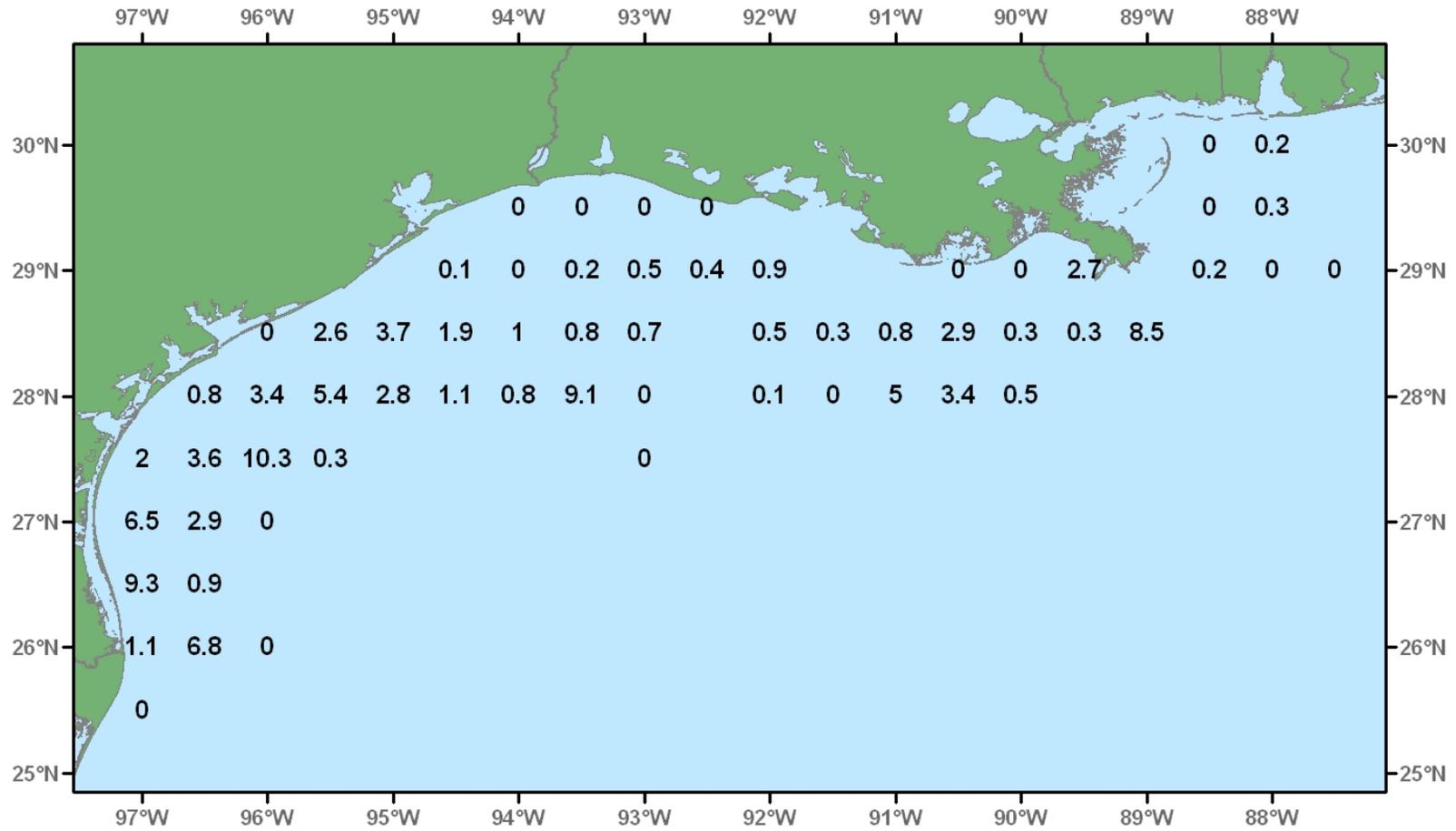


Figure 61. Shoal flounder, *Syacium gunteri*, lb/hour for June-July 2006.

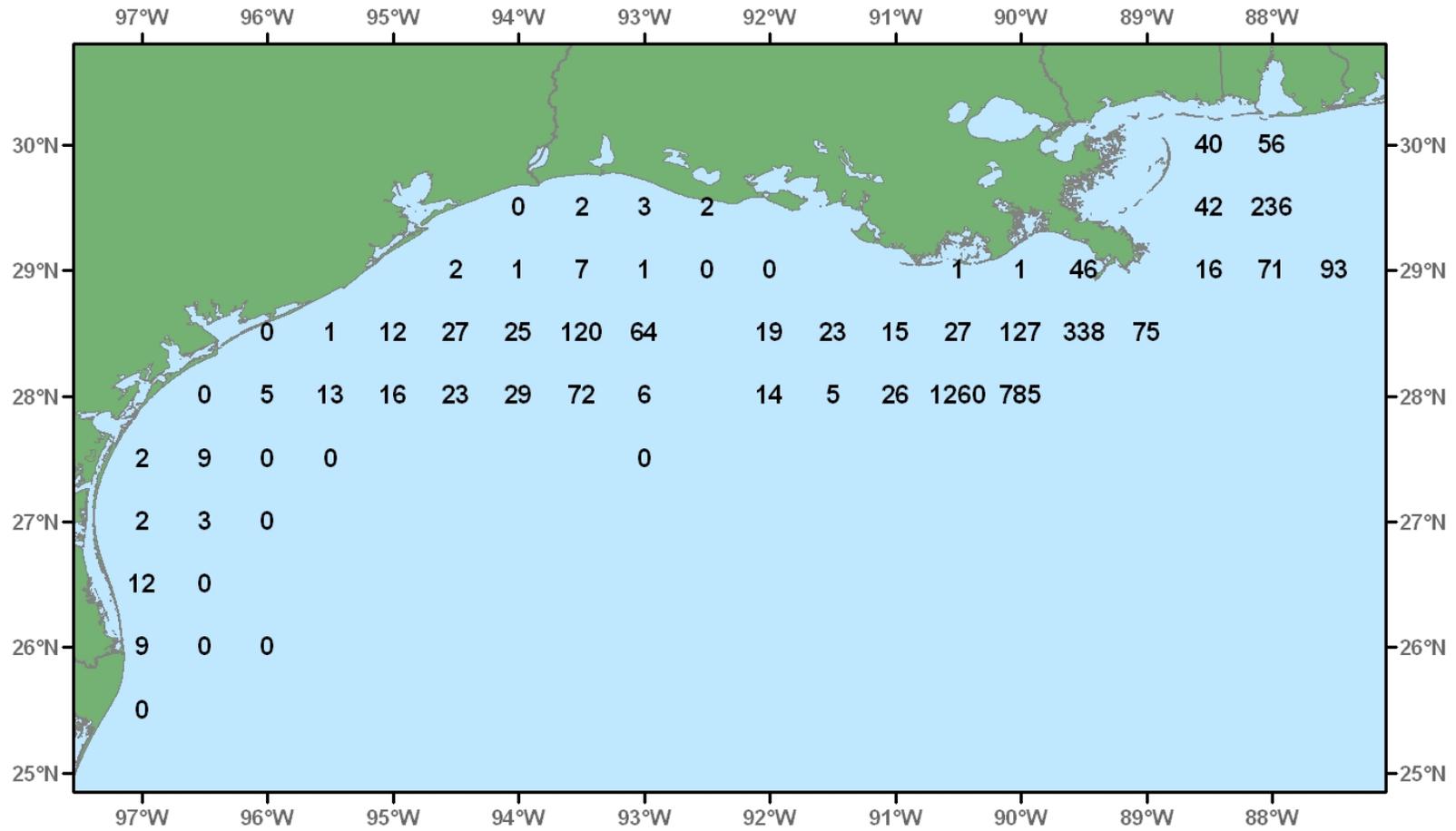


Figure 62. Spot, Leiostomus xanthurus, number/hour for October-December 2006.

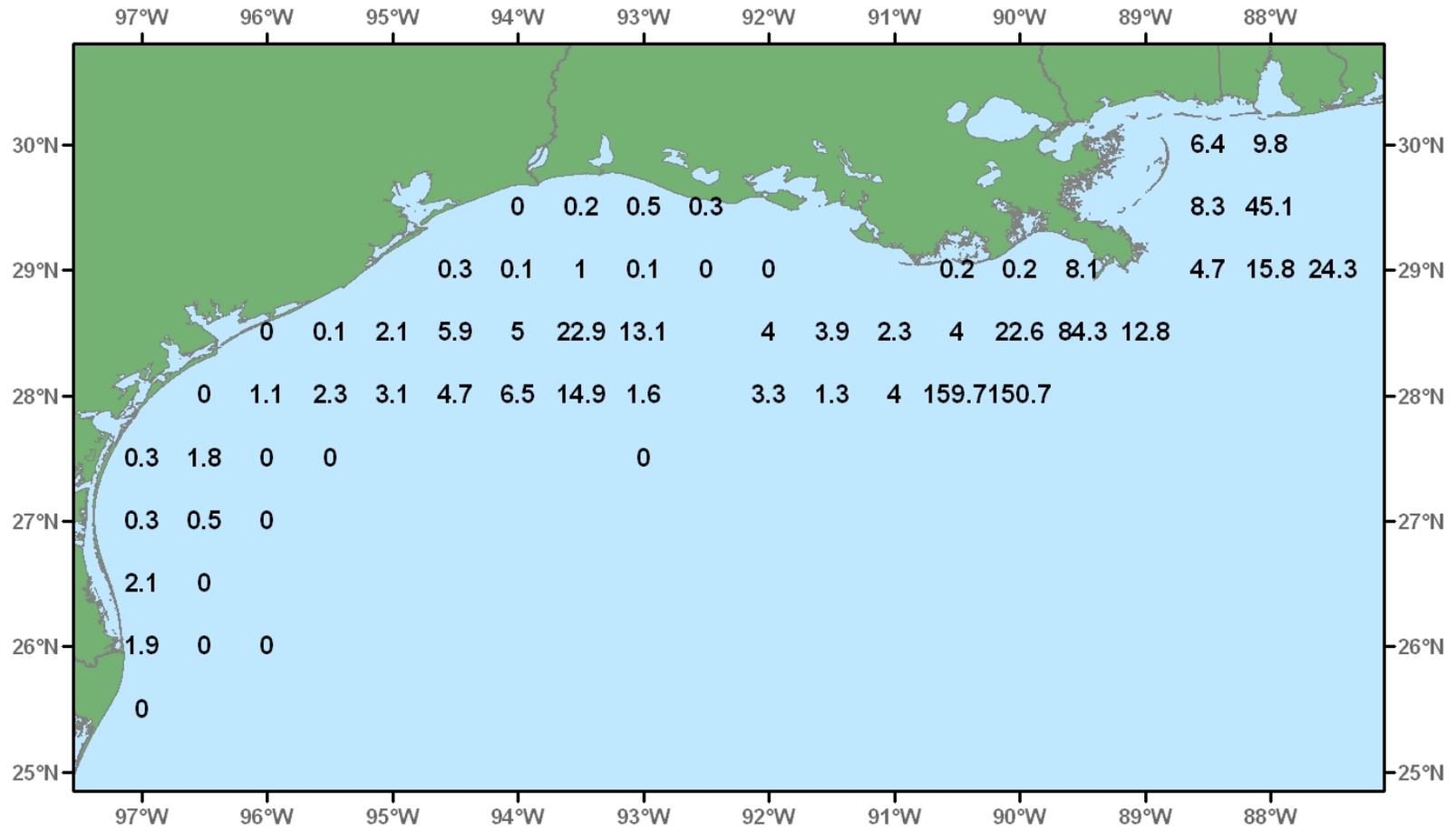


Figure 63. Spot, Leiestomus xanthurus, lb/hour for October-December 2006.

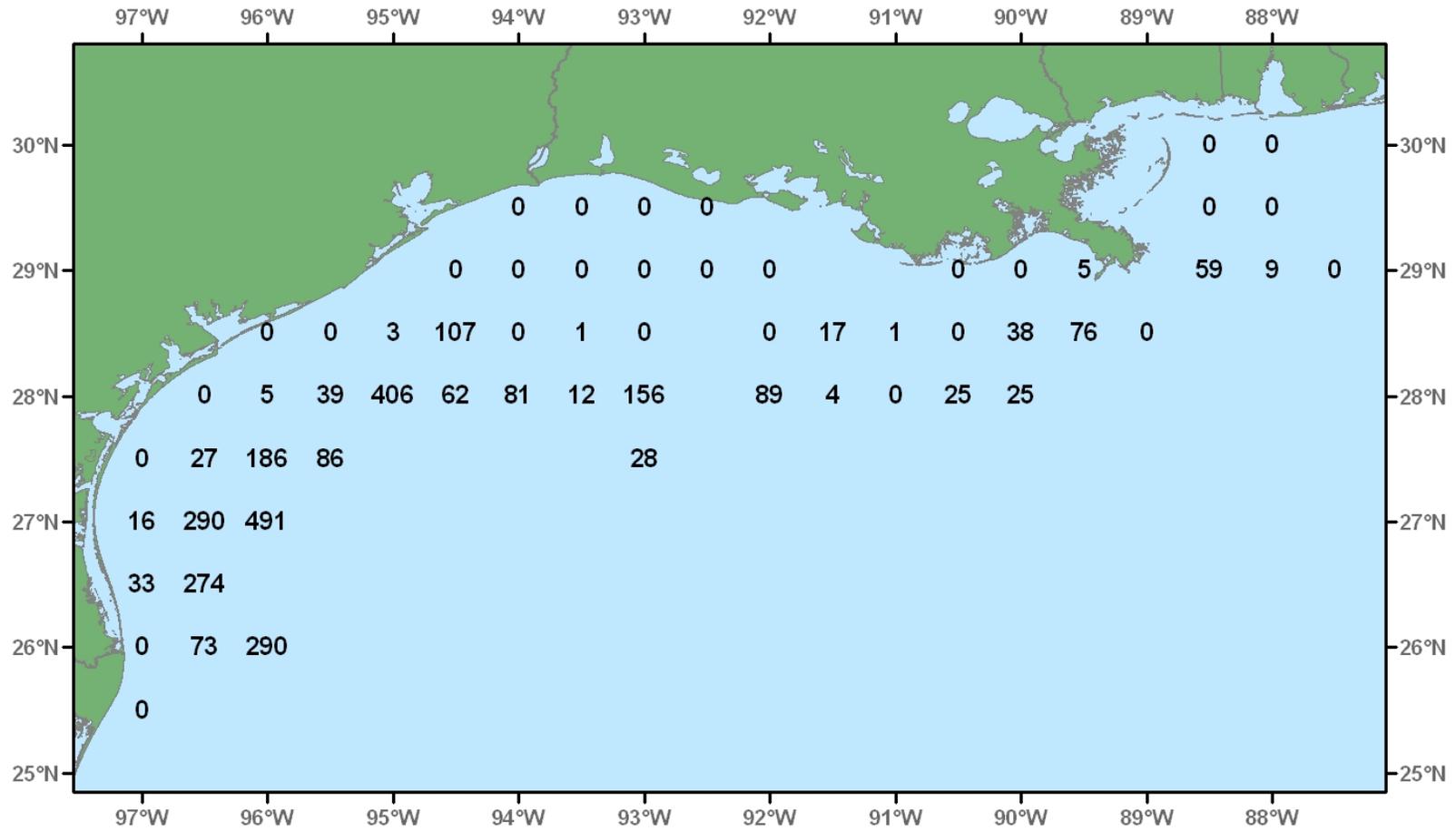


Figure 64. Blackear bass, *Serranus atrobranchus*, number/hour for October-December 2006.

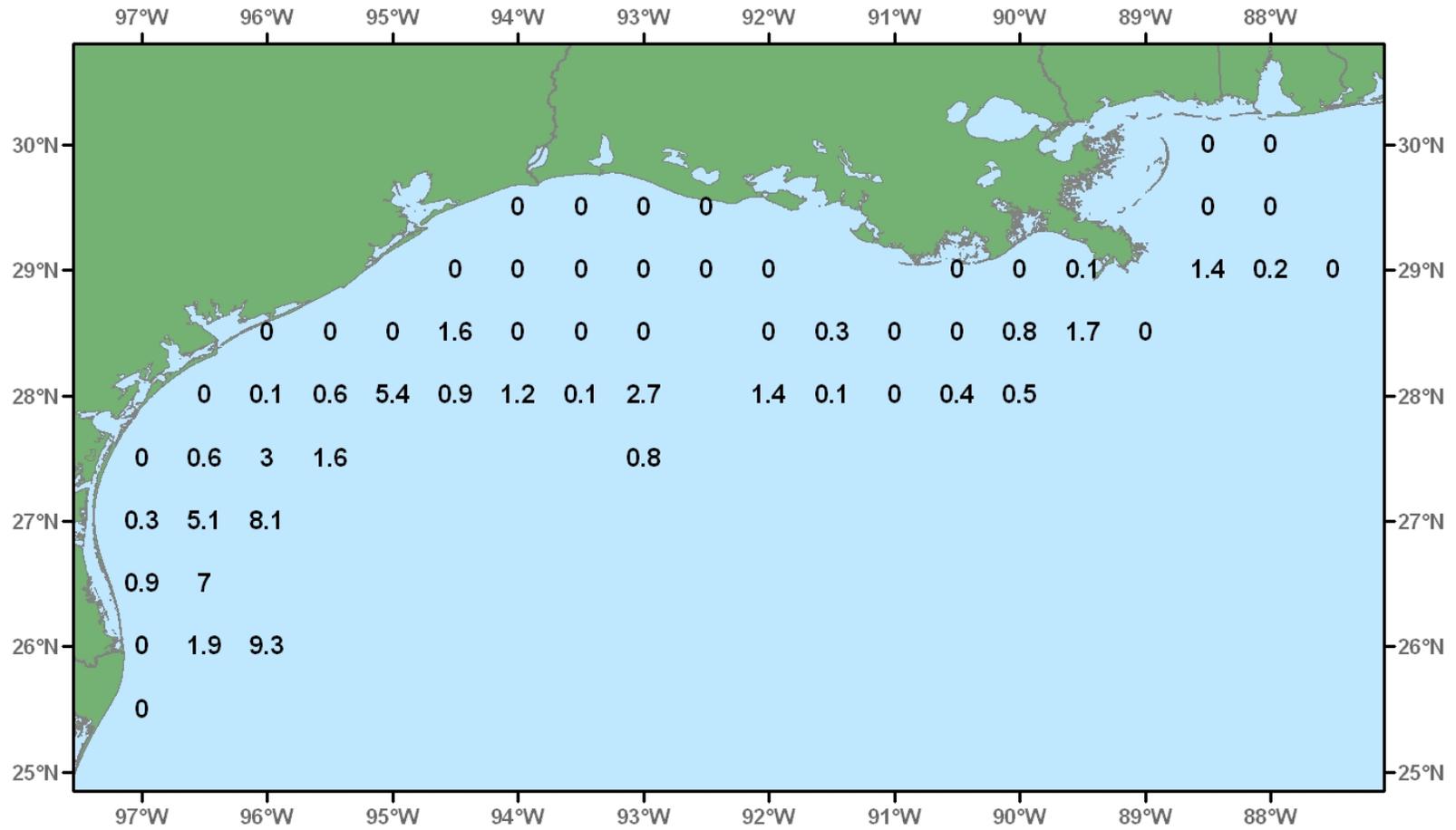


Figure 65. Blackear bass, Serranus atrobranchus, lb/hour for October-December 2006.

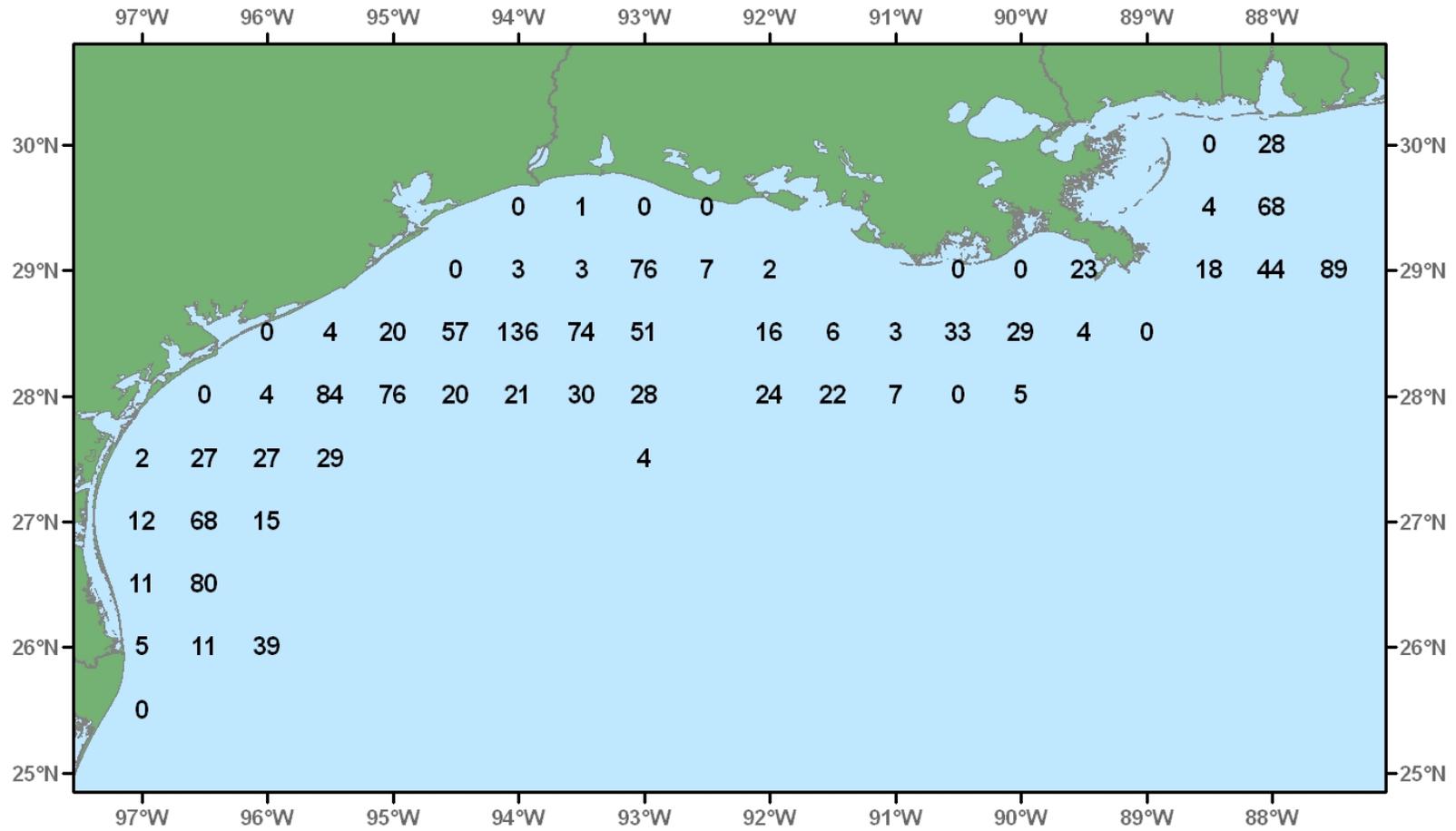


Figure 66. Inshore lizardfish, *Synodus foetens*, number/hour for October-December 2006.

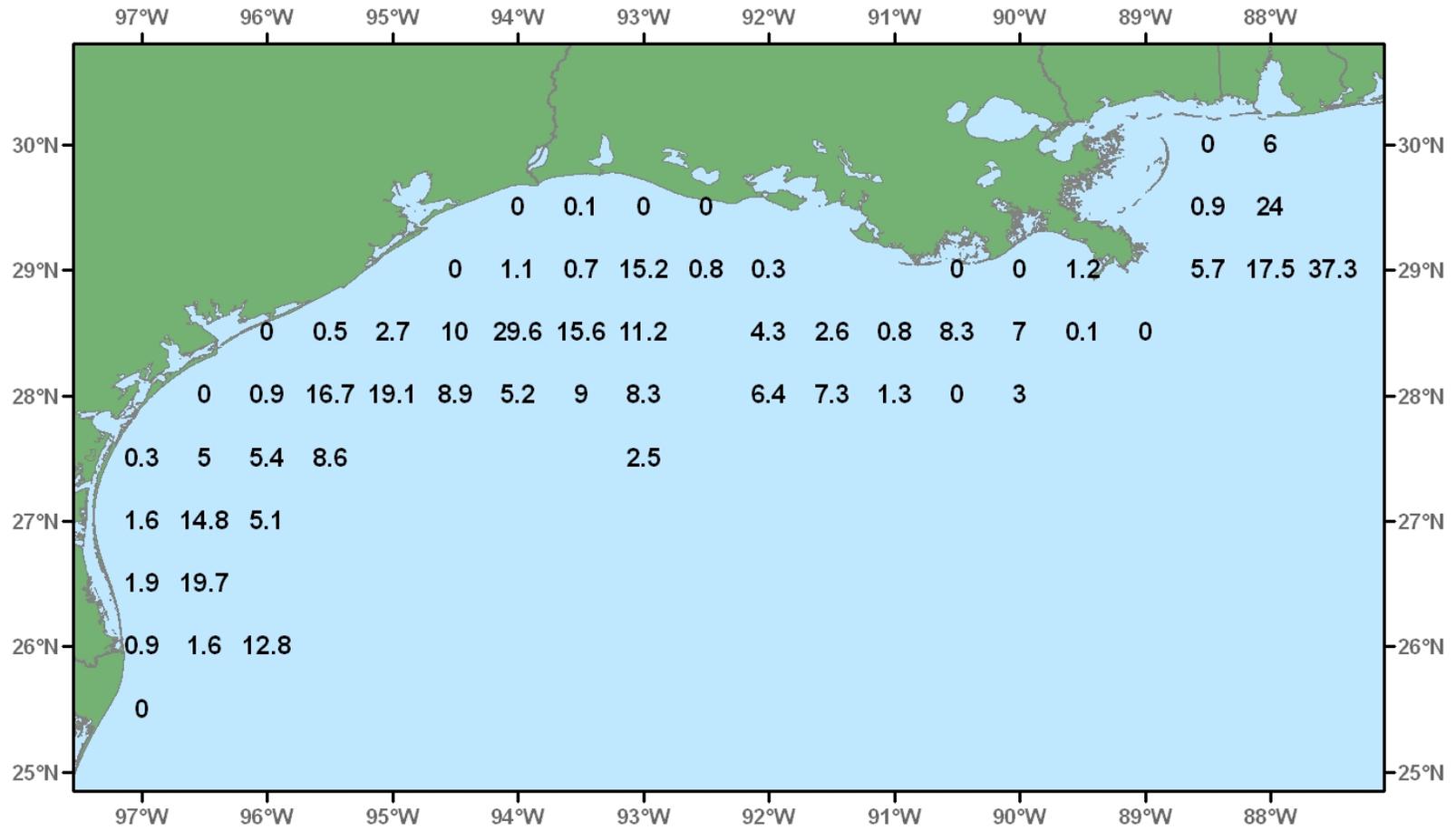


Figure 67. Inshore lizardfish, *Synodus foetens*, lb/hour for October-December 2006.

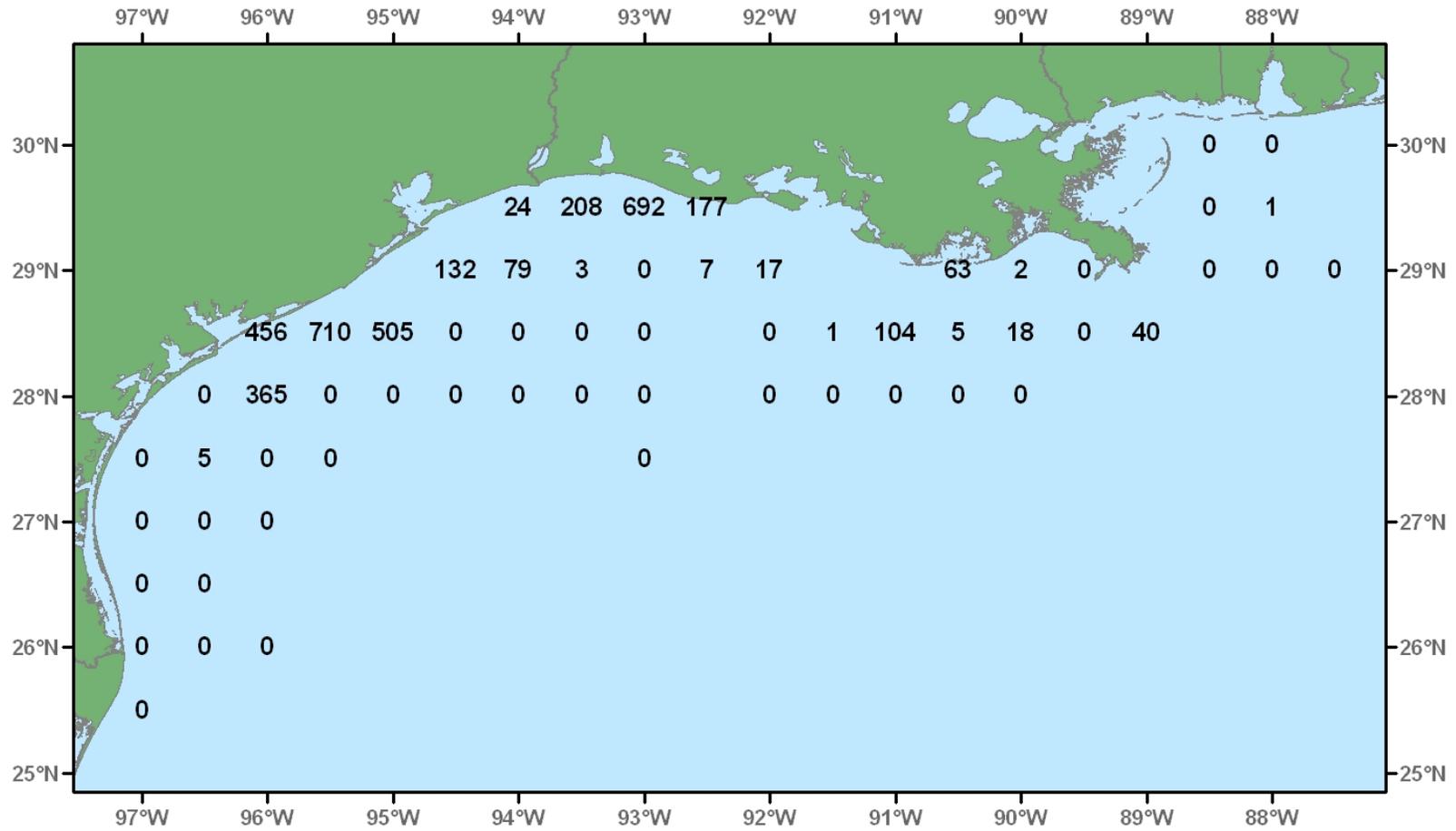


Figure 68. Star drum, *Stellifer lanceolatus*, number/hour for October-December 2006.

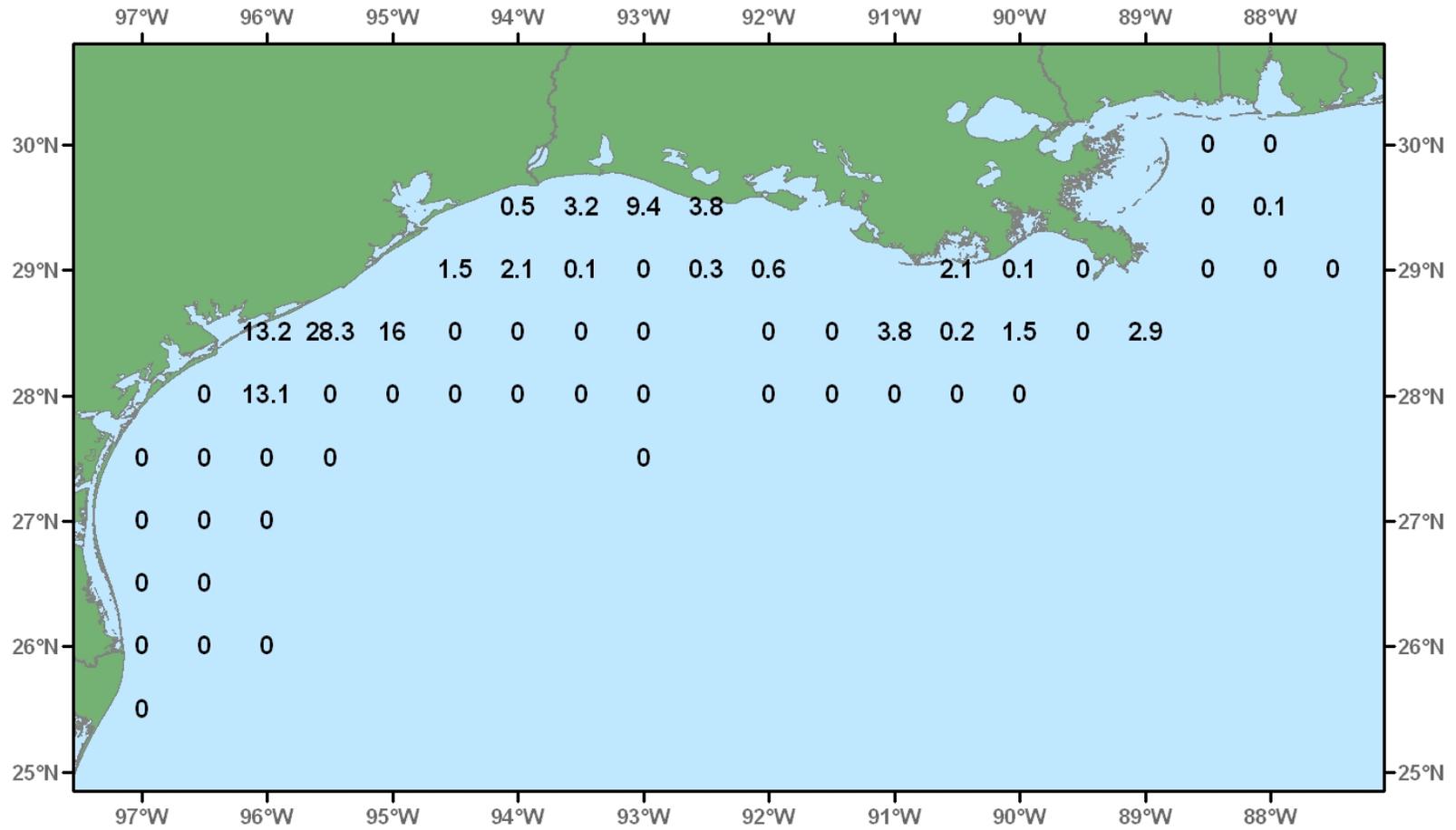


Figure 69. Star drum, *Stellifer lanceolatus*, lb/hour for October-December 2006.

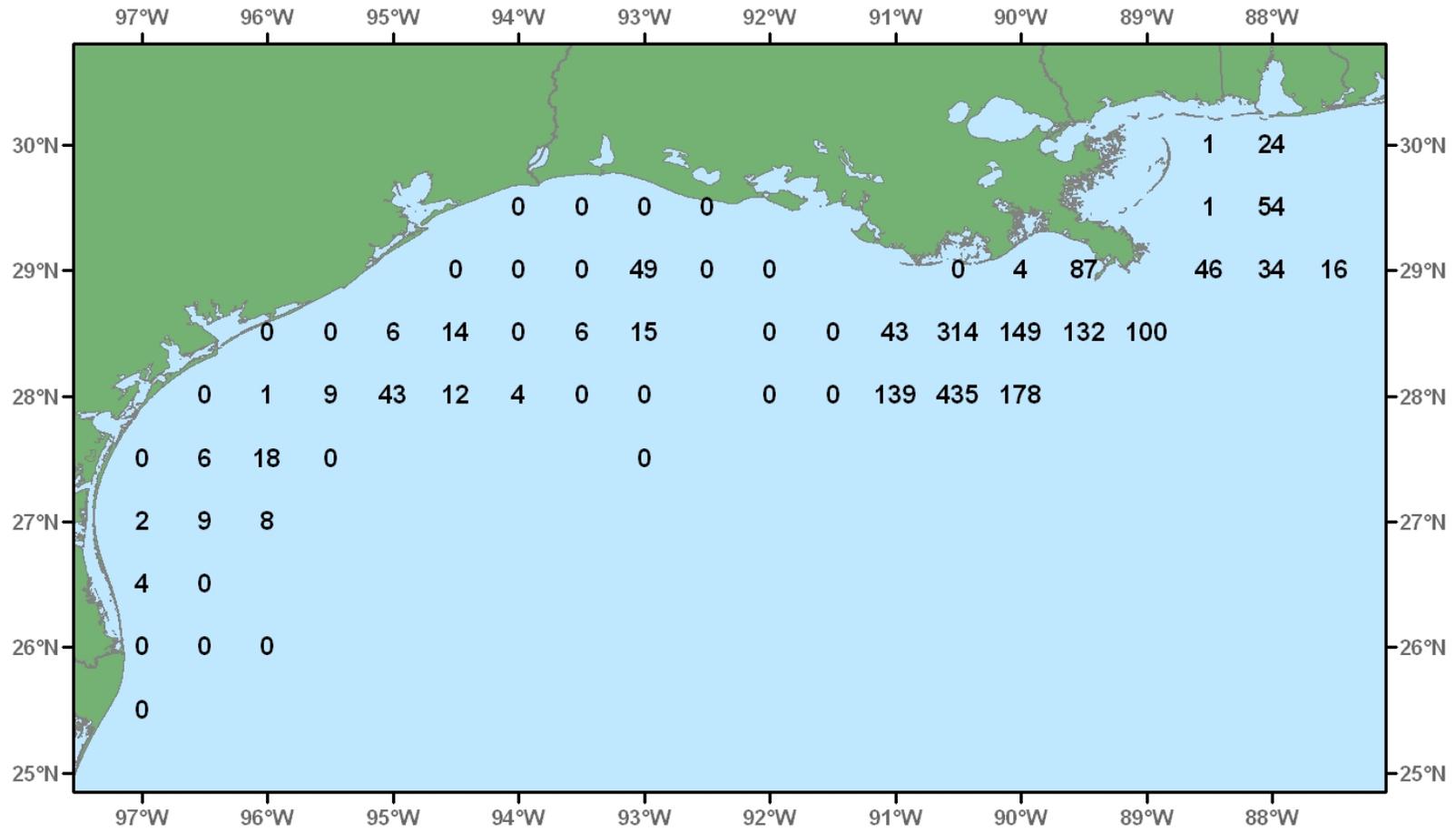


Figure 70. Bigeye searobin, *Prionotus longispinosus*, number/hour for October-December 2006.

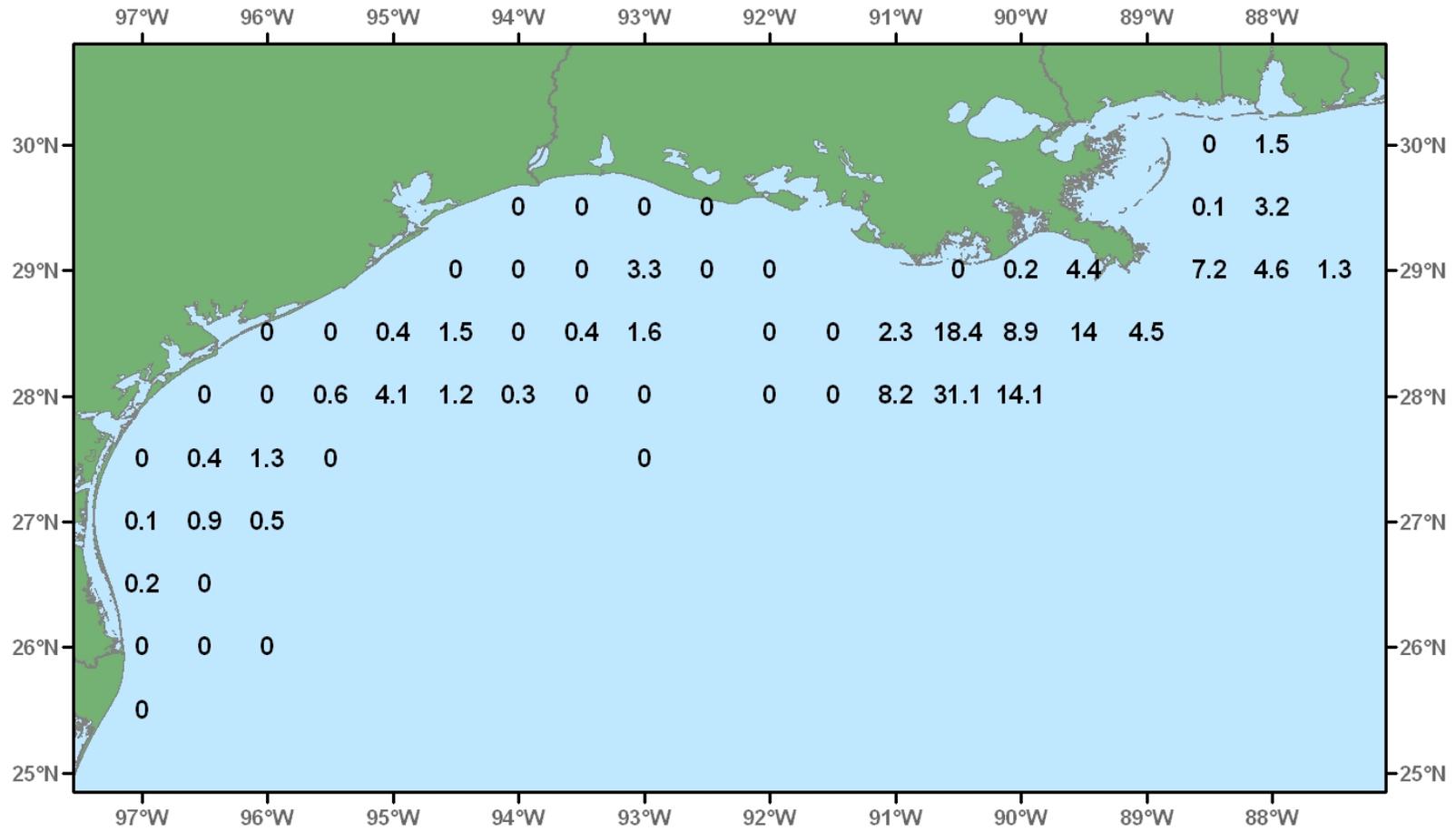


Figure 71. Bigeye searobin, *Prionotus longispinosus*, lb/hour for October-December 2006.

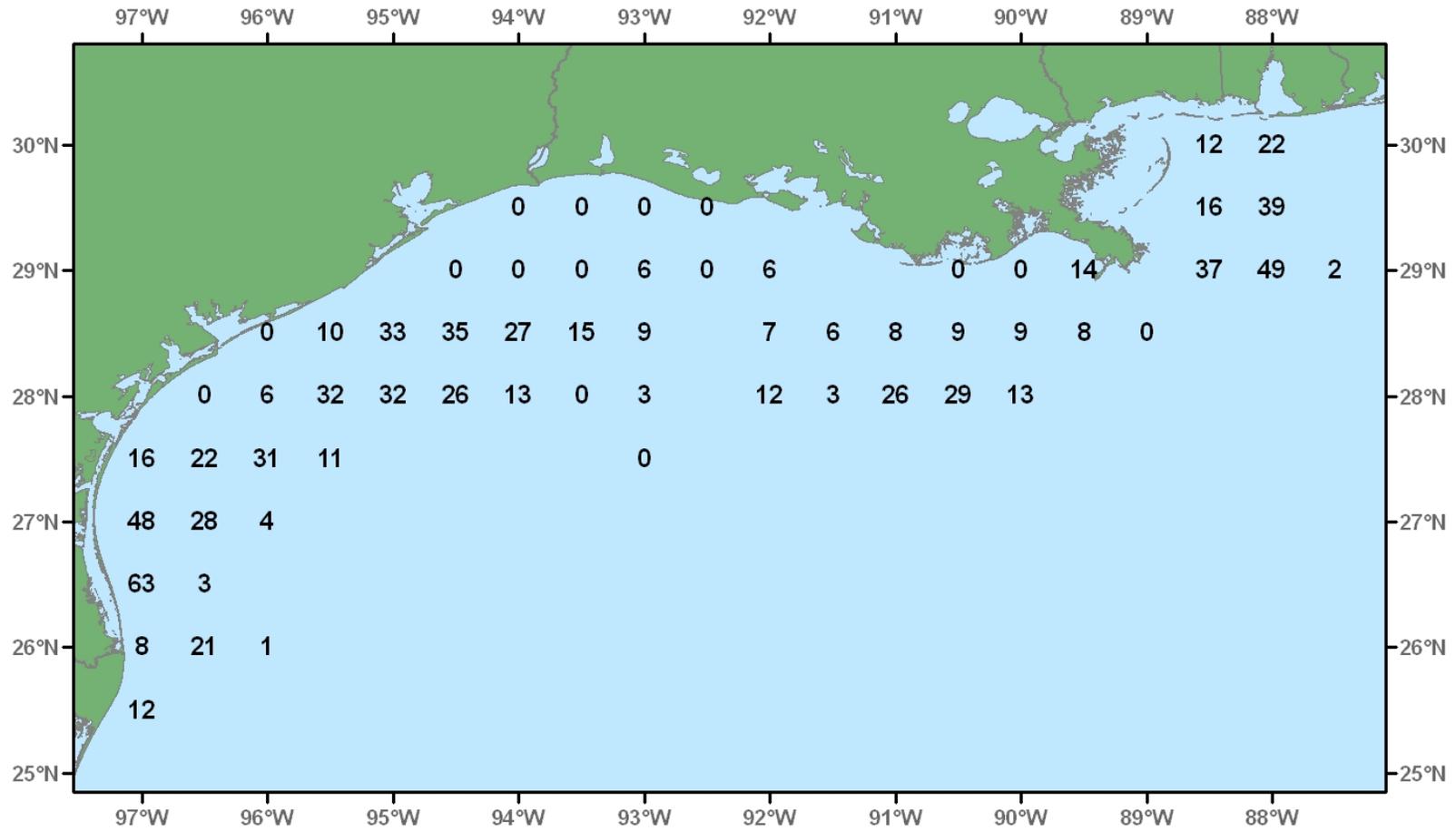


Figure 72. Red snapper, Lutjanus campechanus, number/hour for October-December 2006.

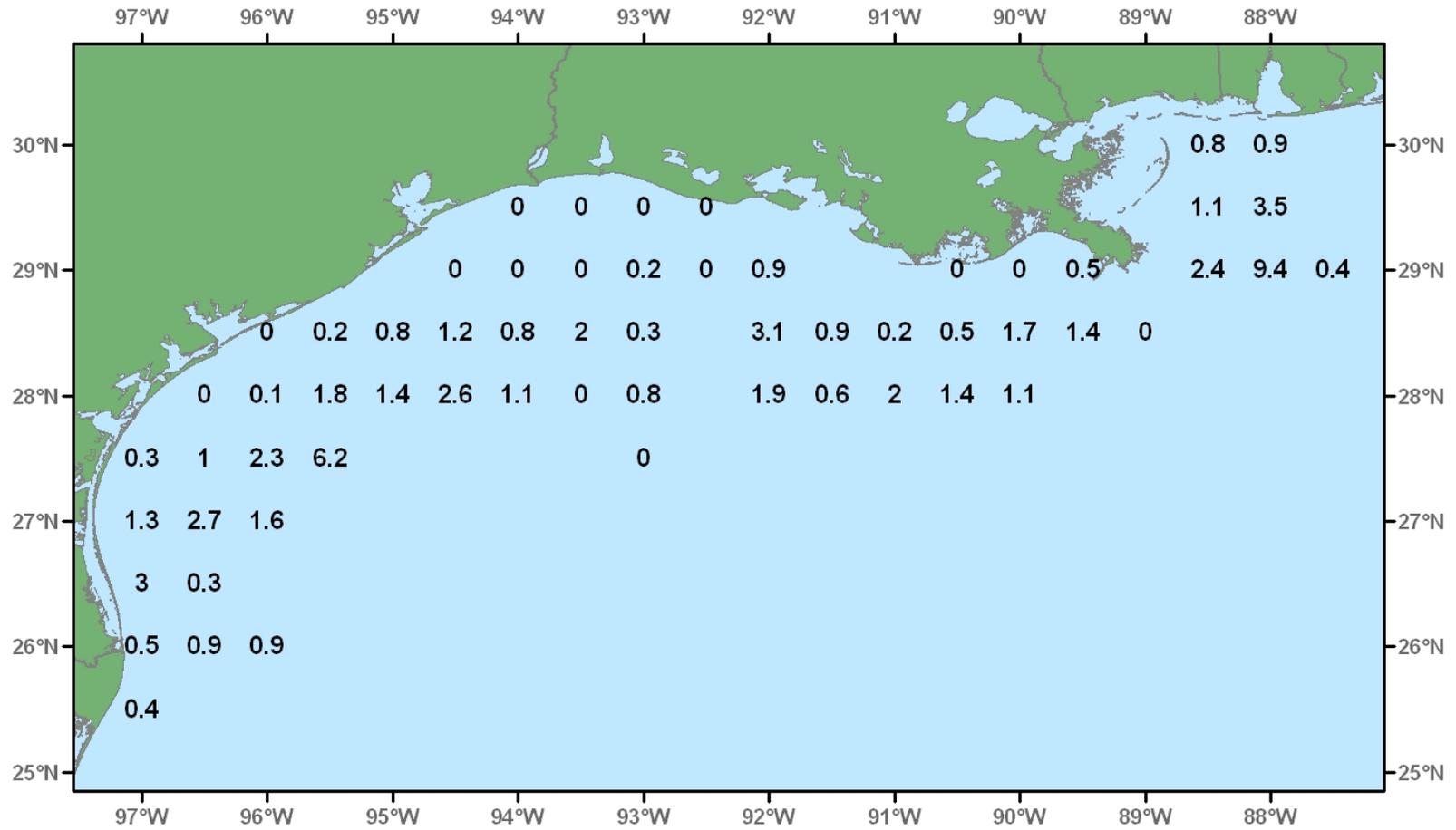


Figure 73. Red snapper, *Lutjanus campechanus*, lb/hour for October-December 2006.

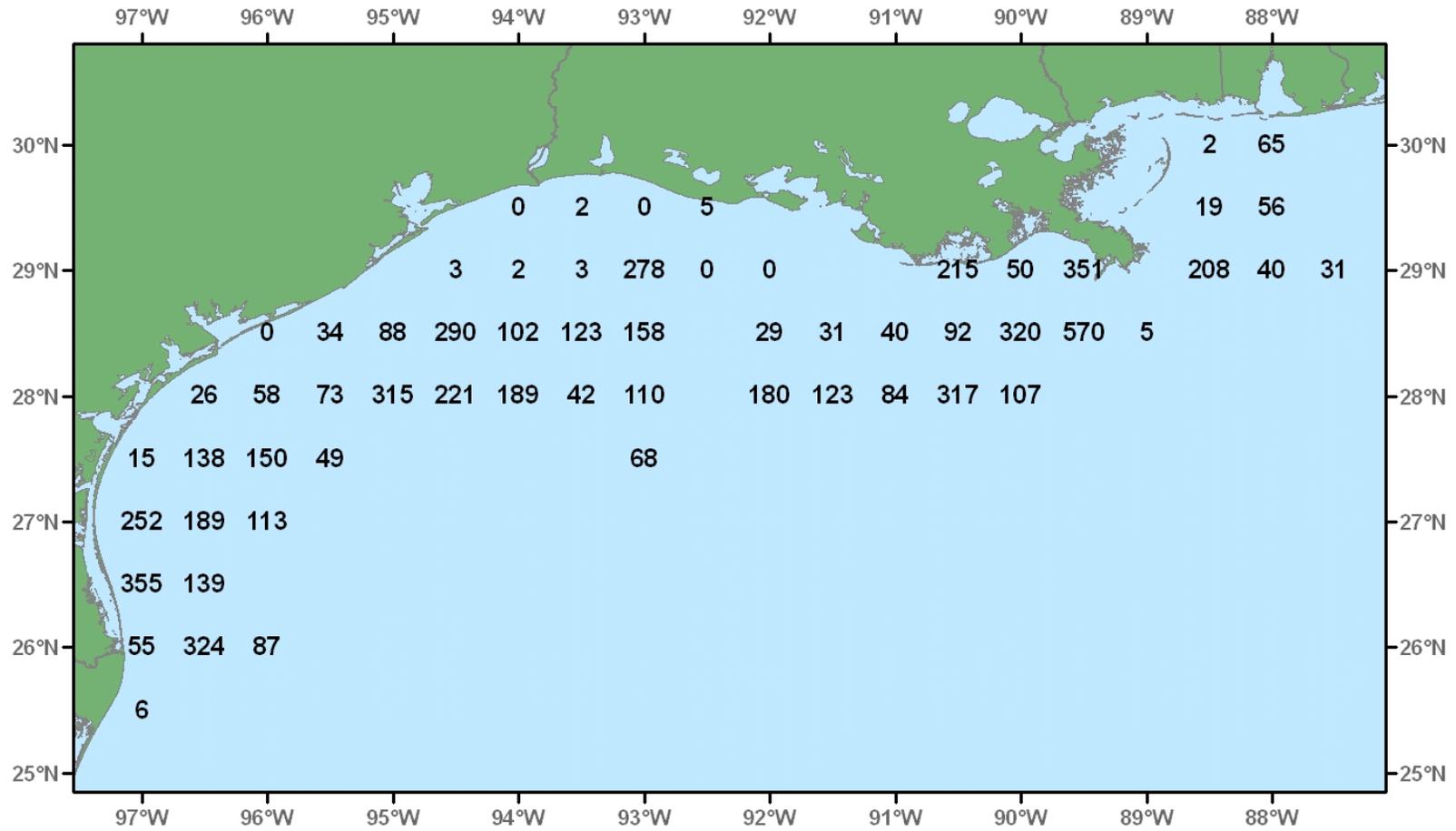


Figure 74. Brown shrimp, *Farfantepenaeus aztecus*, number/hour for October-December 2006.

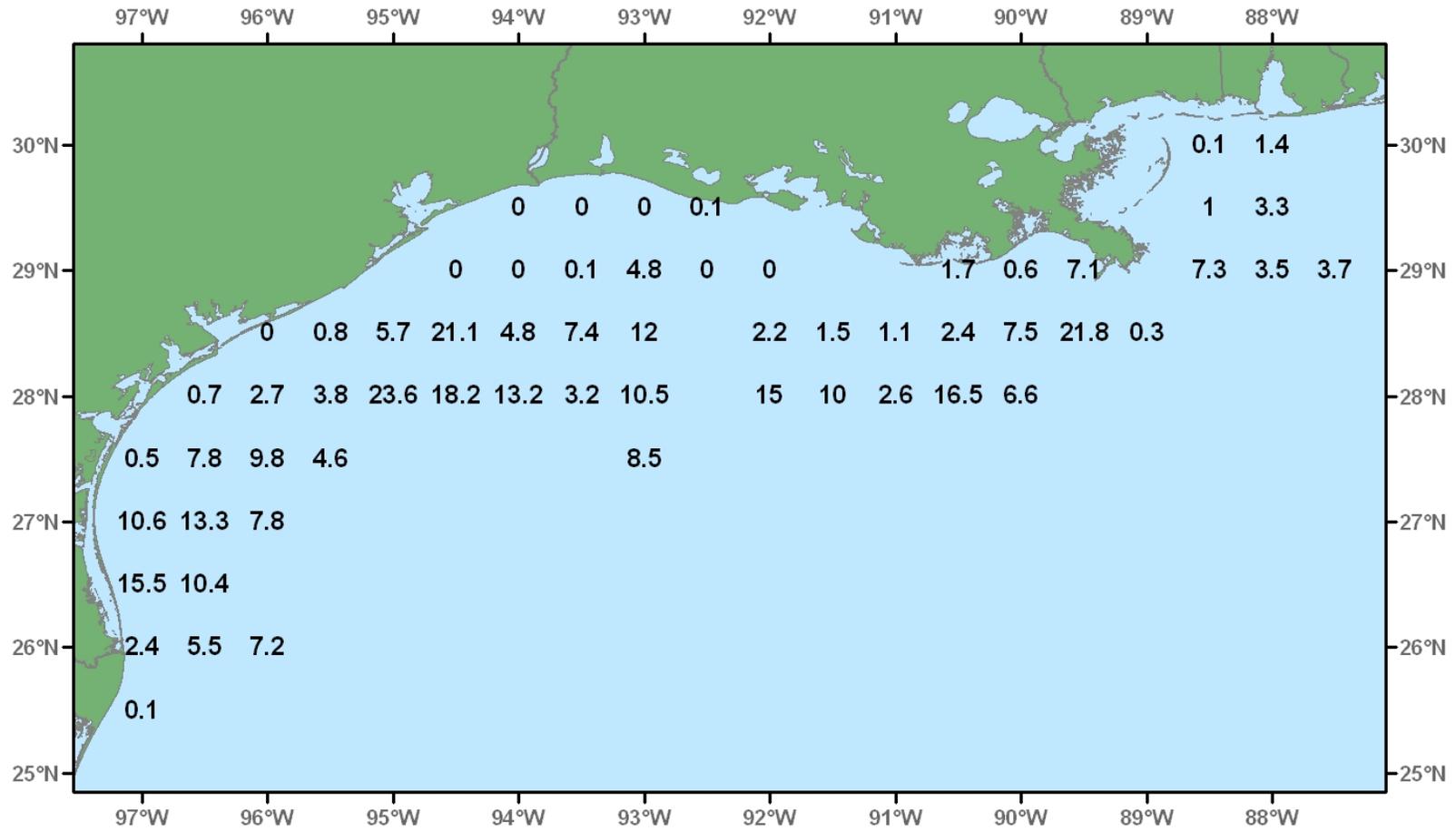


Figure 75. Brown shrimp, *Farfantepenaeus aztecus*, lb/hour for October-December 2006.

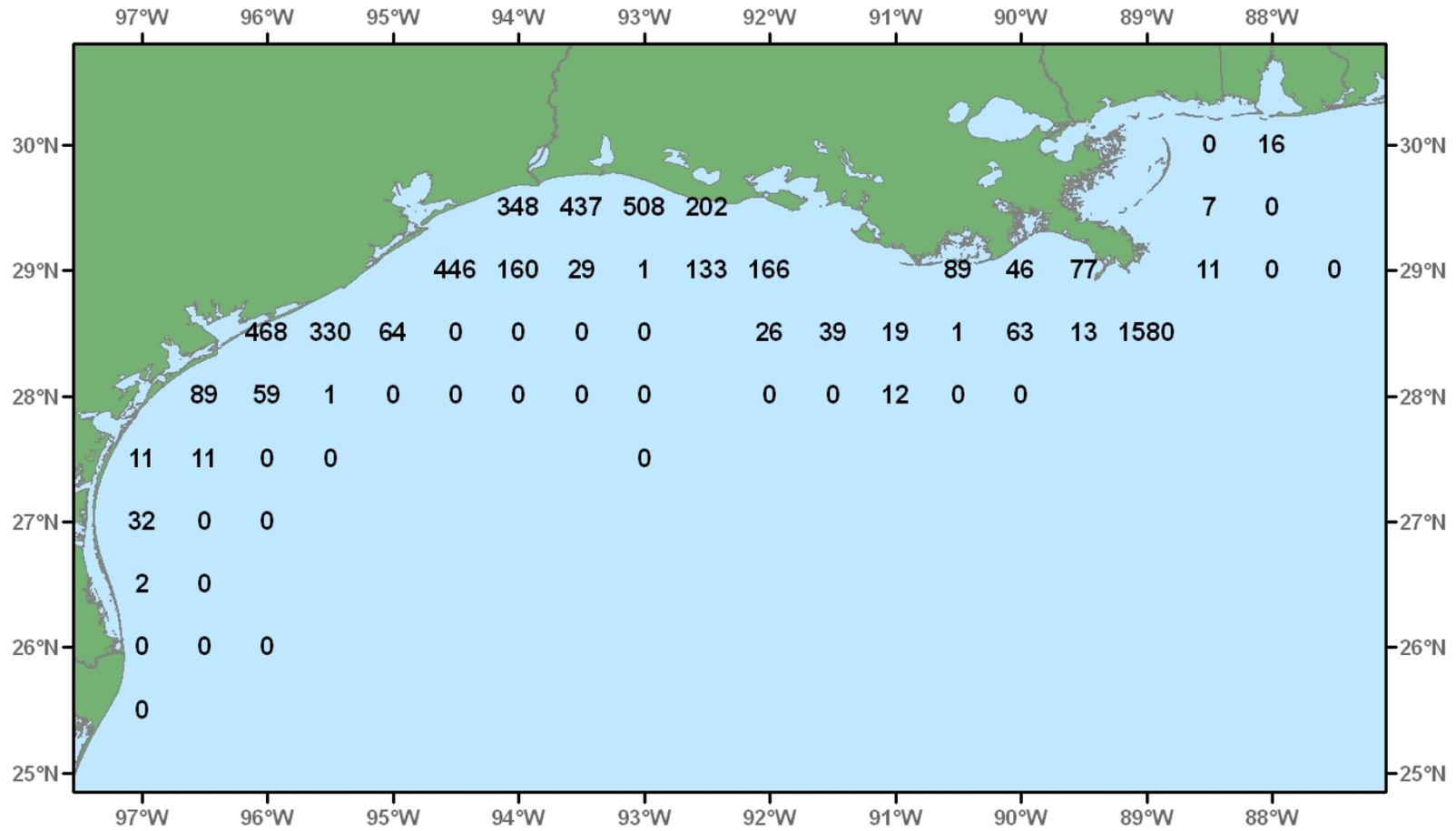


Figure 76. White shrimp, *Litopenaeus setiferus*, number/hour for October-December 2006.

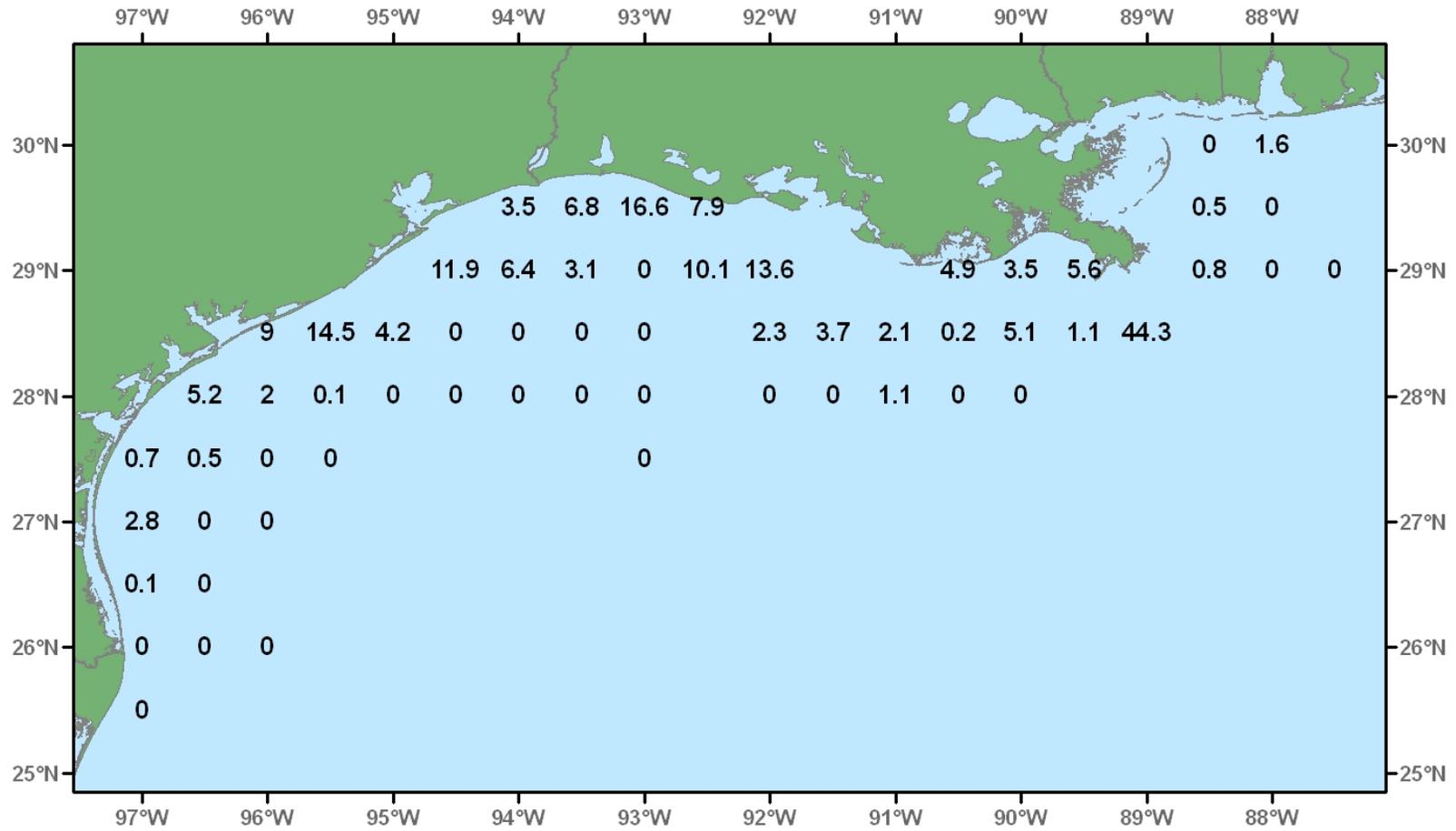


Figure 77. White shrimp, *Litopenaeus setiferus*, lb/hour for October-December 2006.

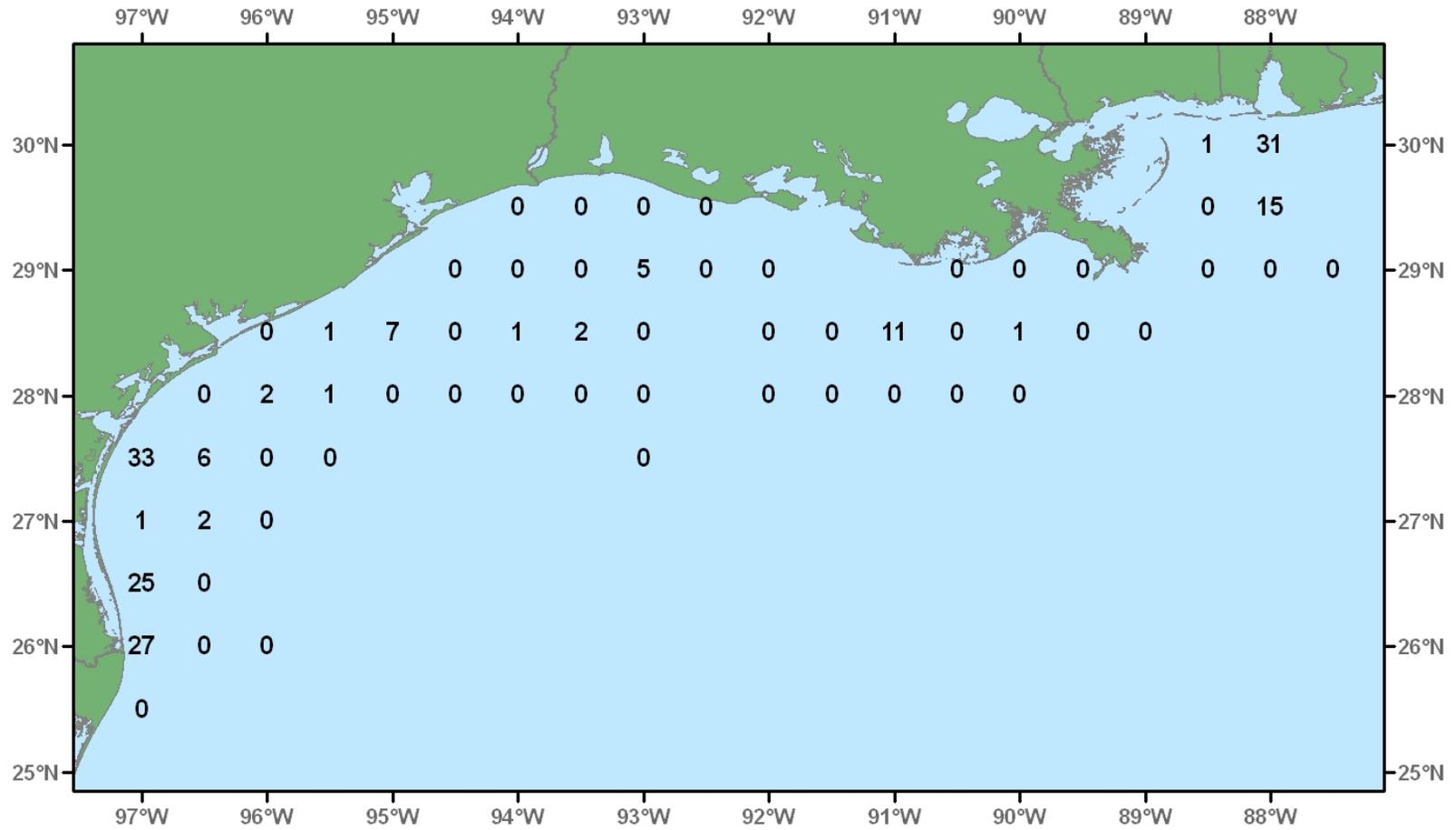


Figure 78. Pink shrimp, *Farfantepenaeus duorarum*, number/hour for October-December 2006.

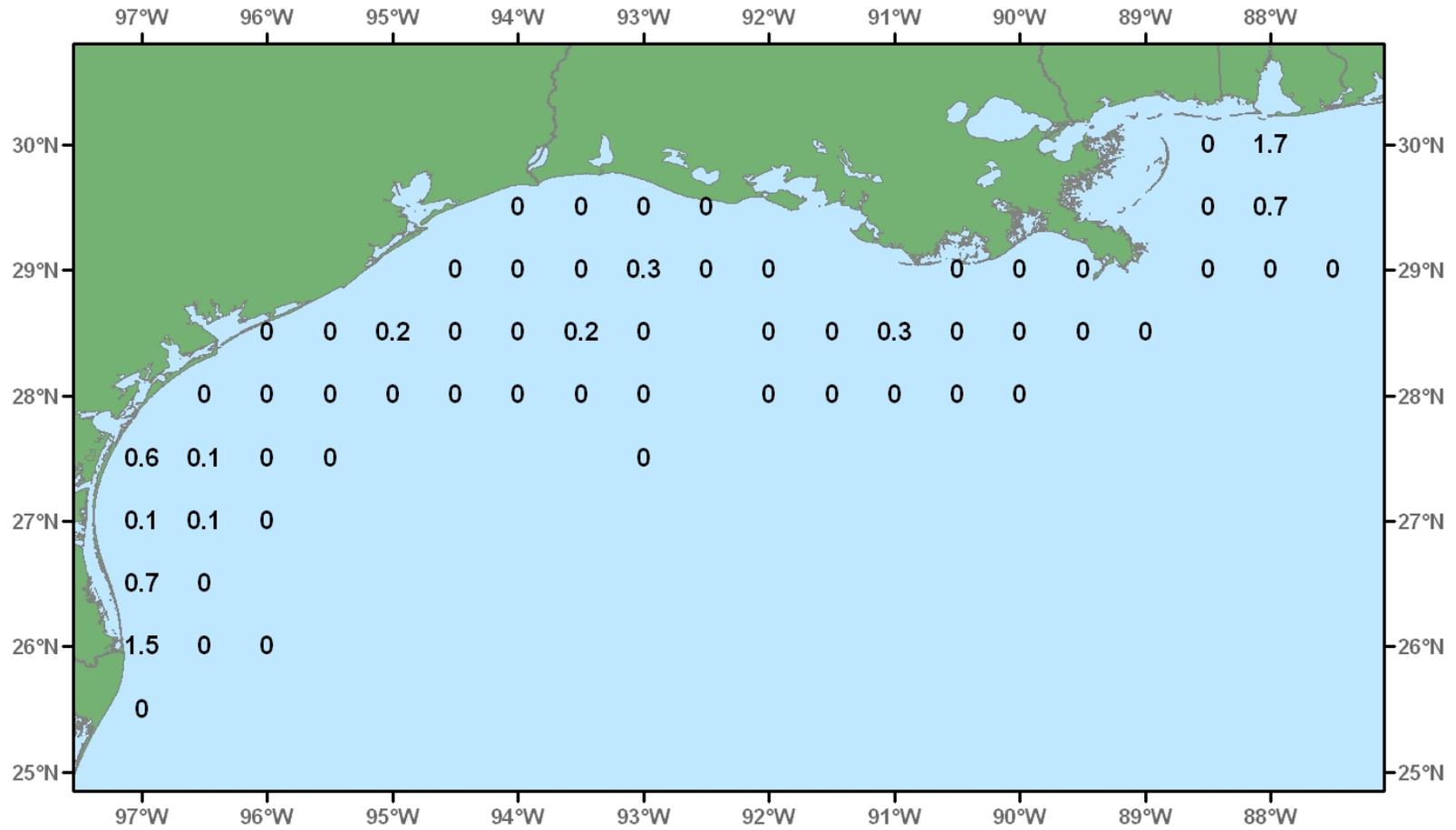


Figure 79. Pink shrimp, *Farfantepenaeus duorarum*, lb/hour for October-December 2006.

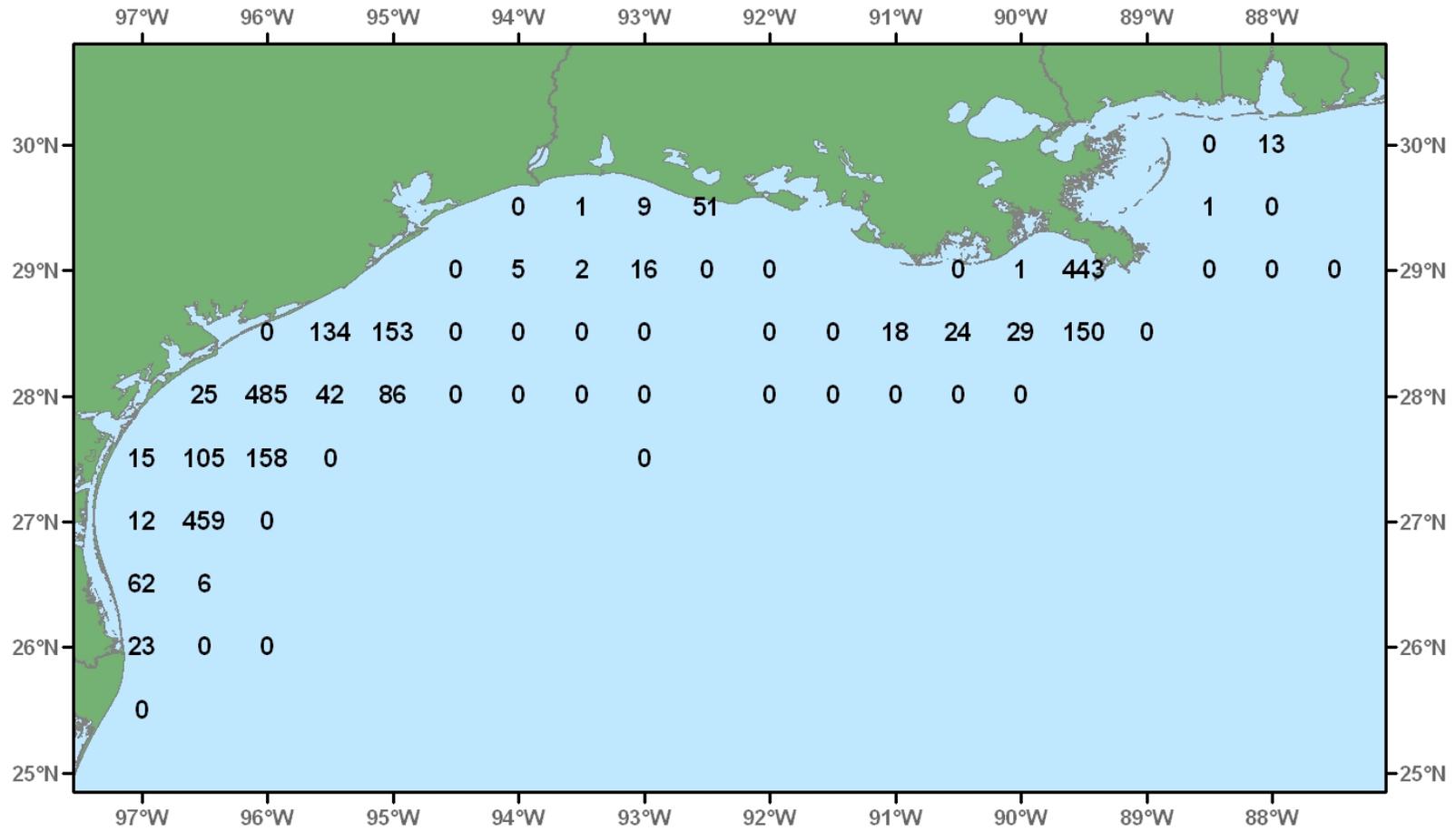


Figure 80. Roughneck shrimp, *Trachypenaeus constrictus*, number/hour for October-December 2006.

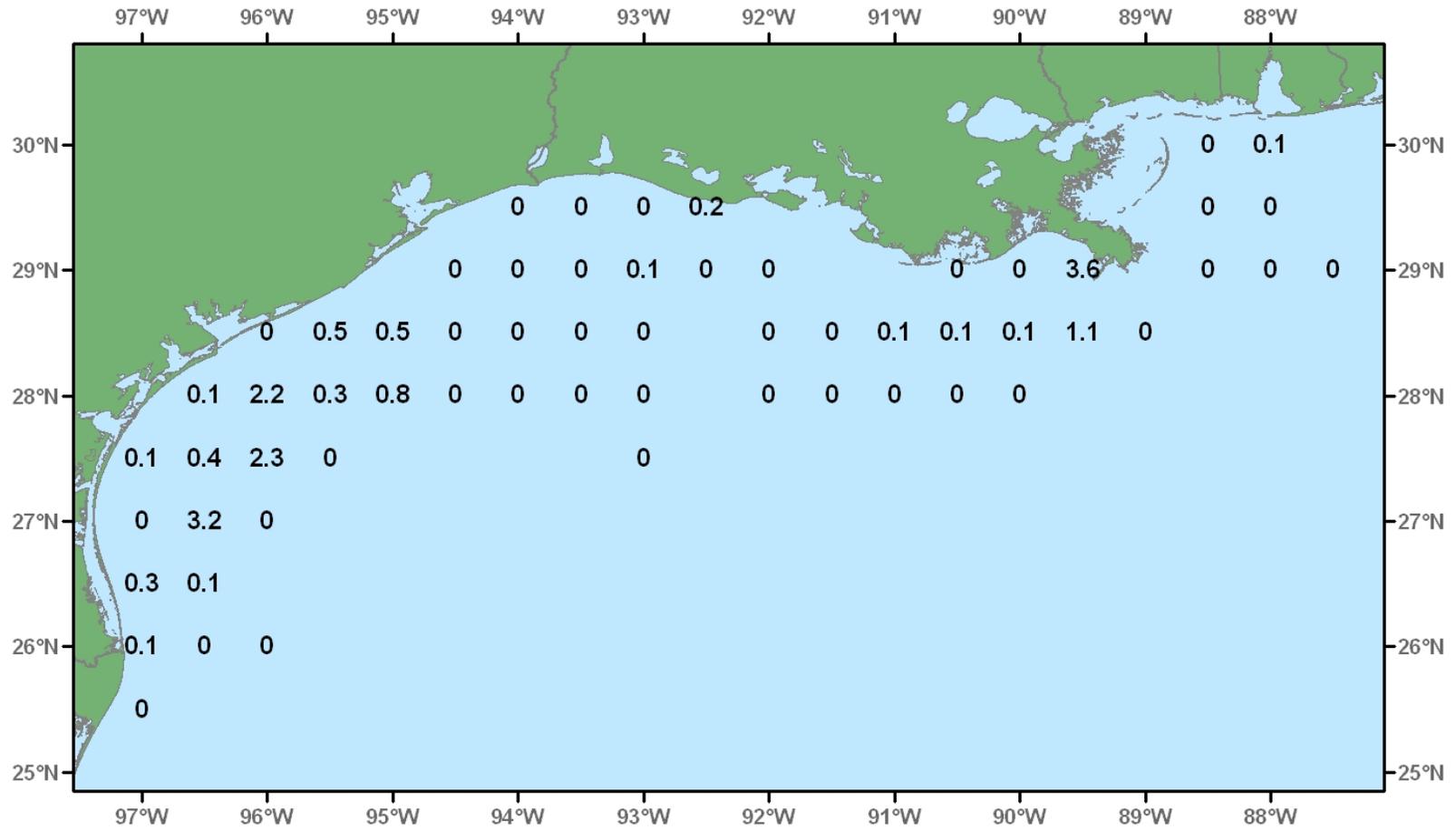


Figure 81. Roughneck shrimp, *Trachypenaeus constrictus*, lb/hour for October-December 2006.

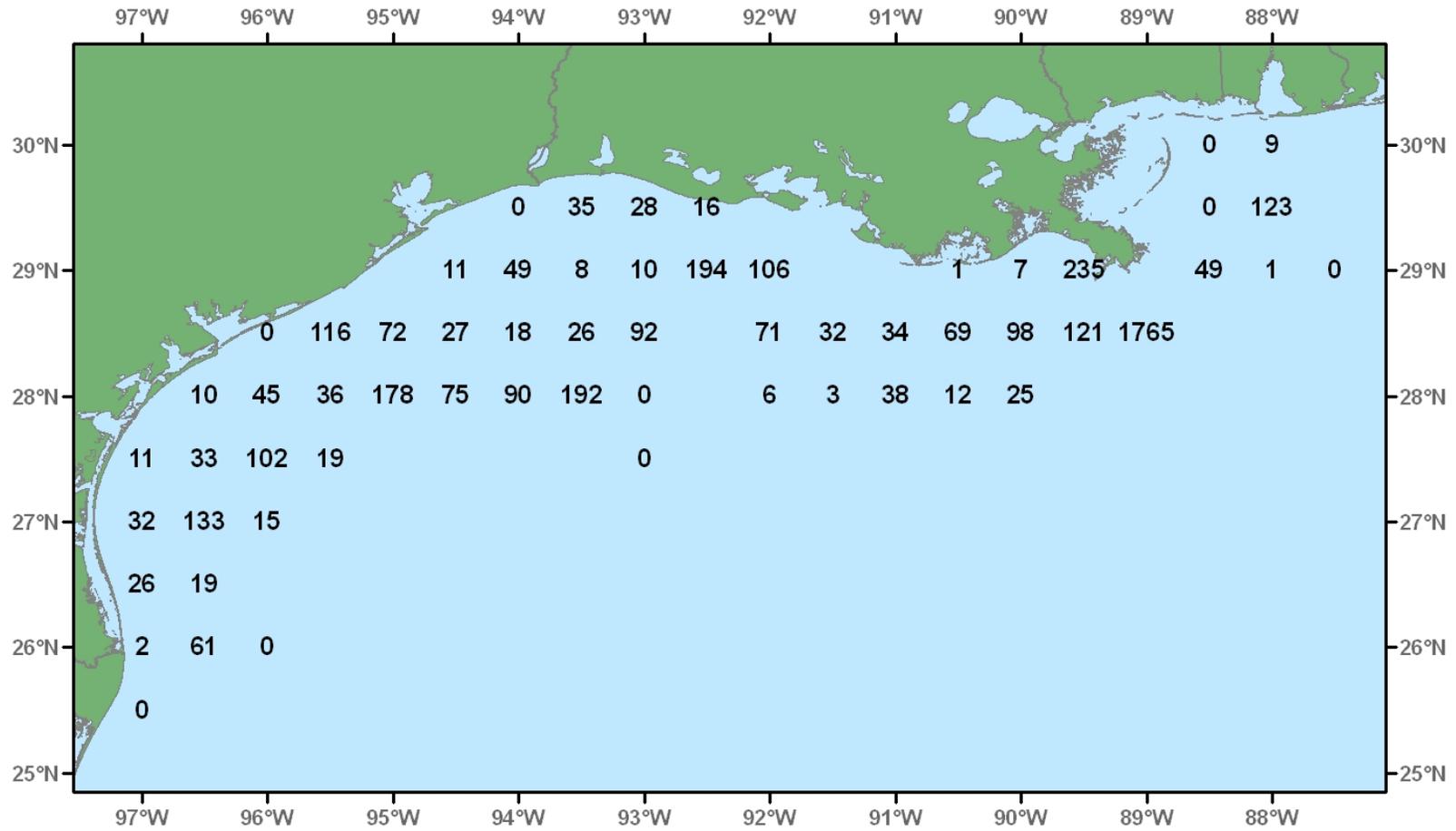


Figure 82. Lesser blue crab, *Callinectes similis*, number/hour for October-December 2006.

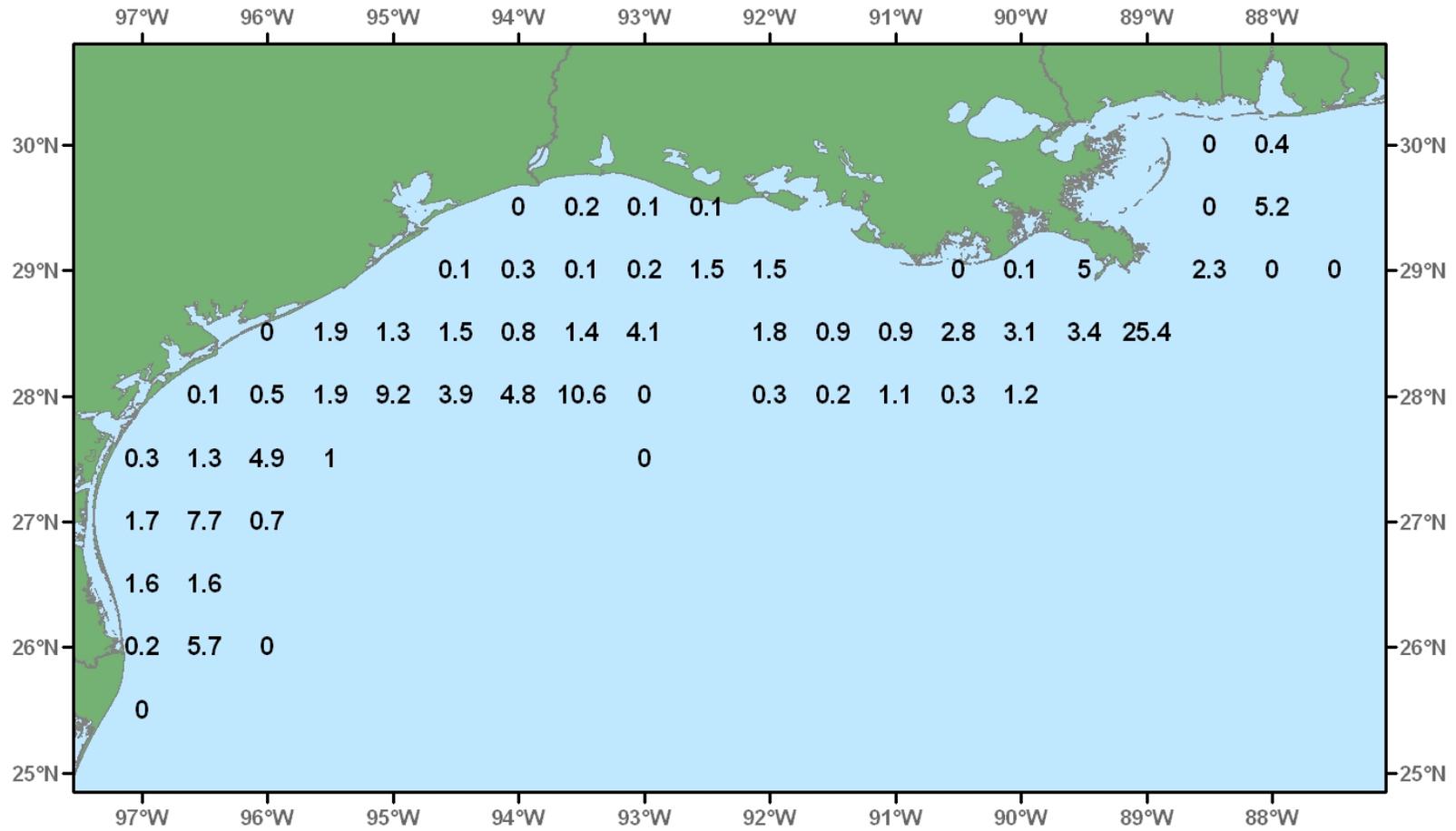


Figure 83. Lesser blue crab, *Callinectes similis*, lb/hour for October-December 2006.

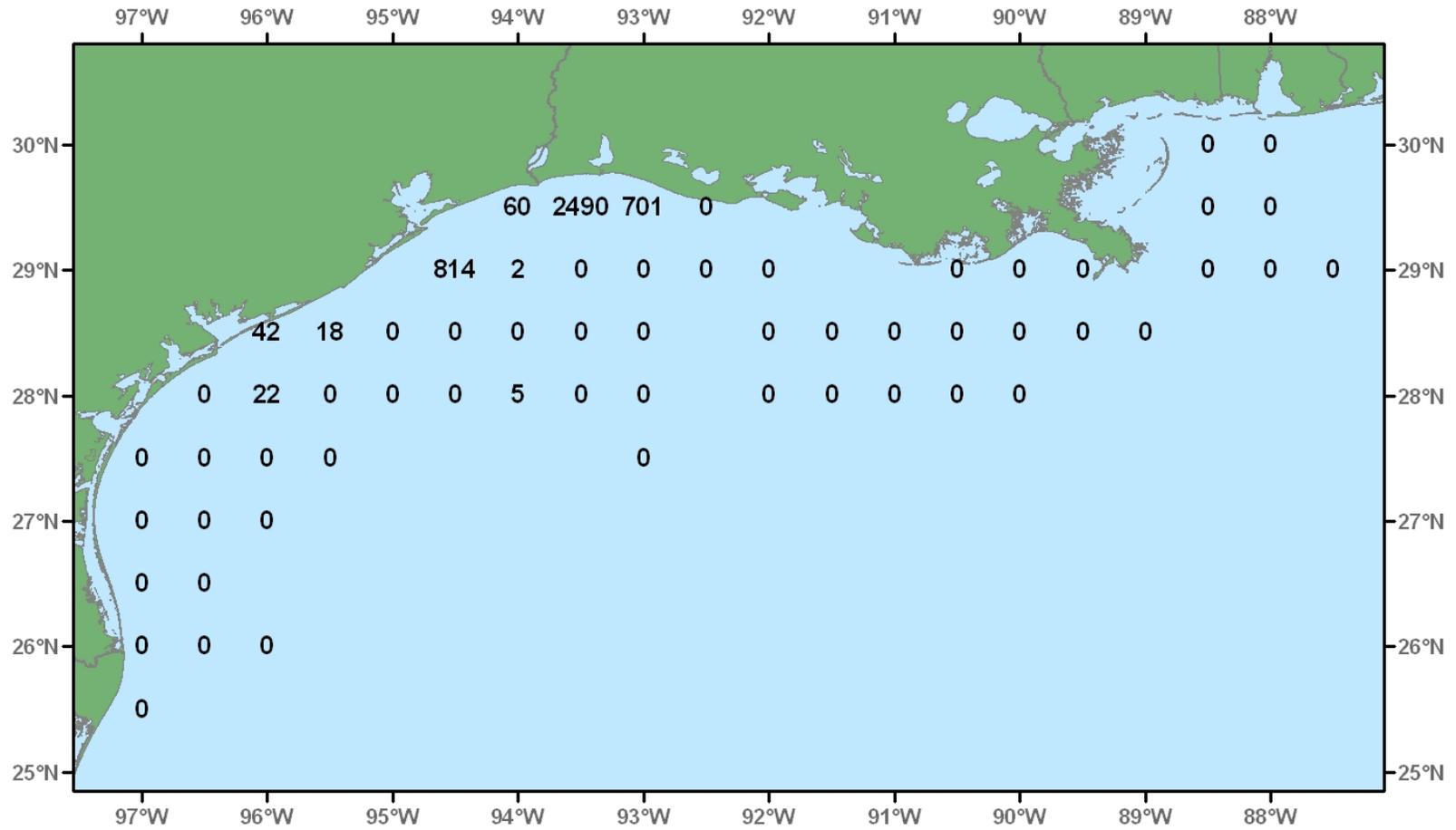


Figure 84. Seabob, *Xiphopenaeus kroyeri*, number/hour for October-December 2006.

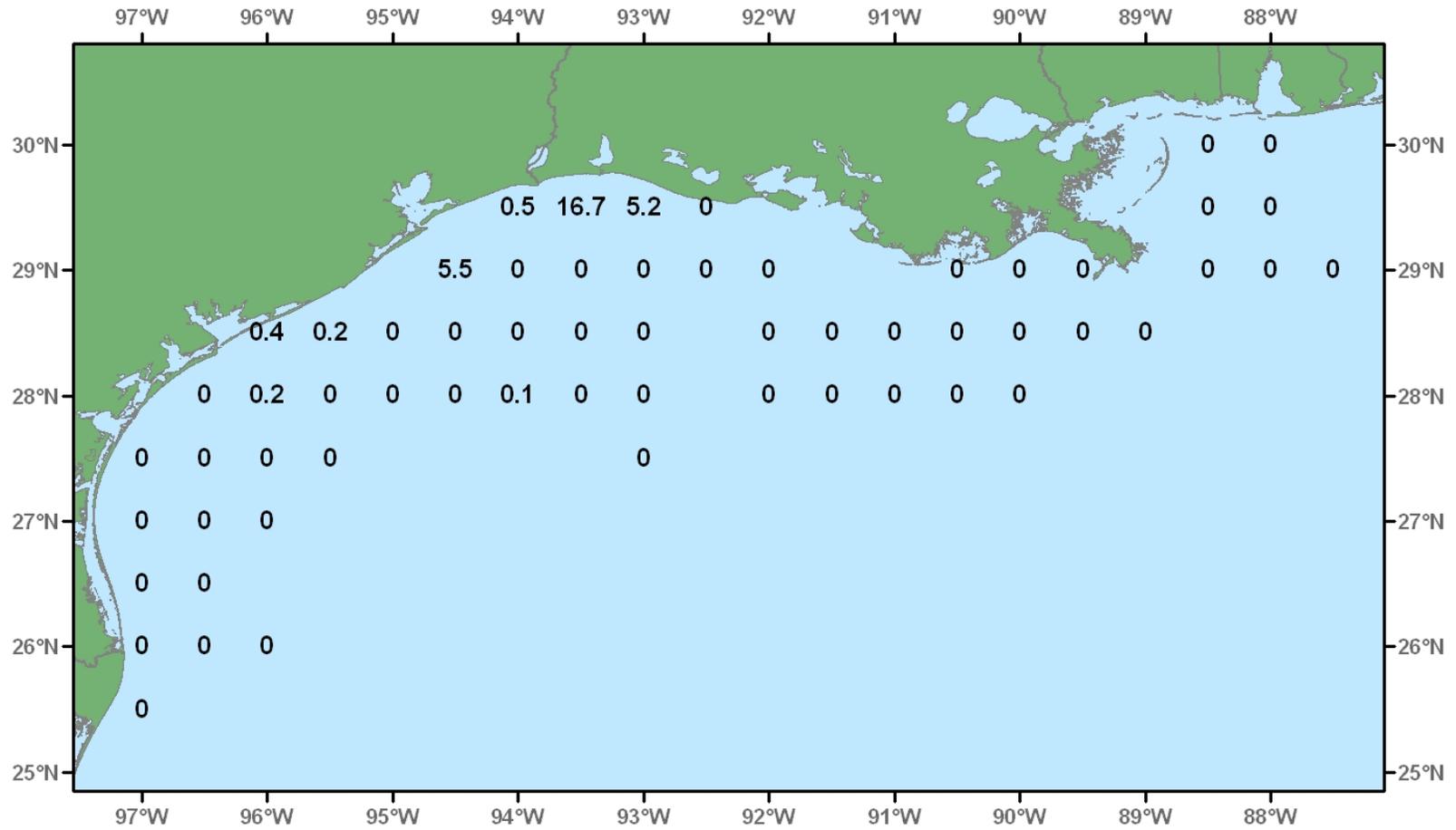


Figure 85. Seabob, *Xiphopenaeus kroyeri*, lb/hour for October-December 2006.

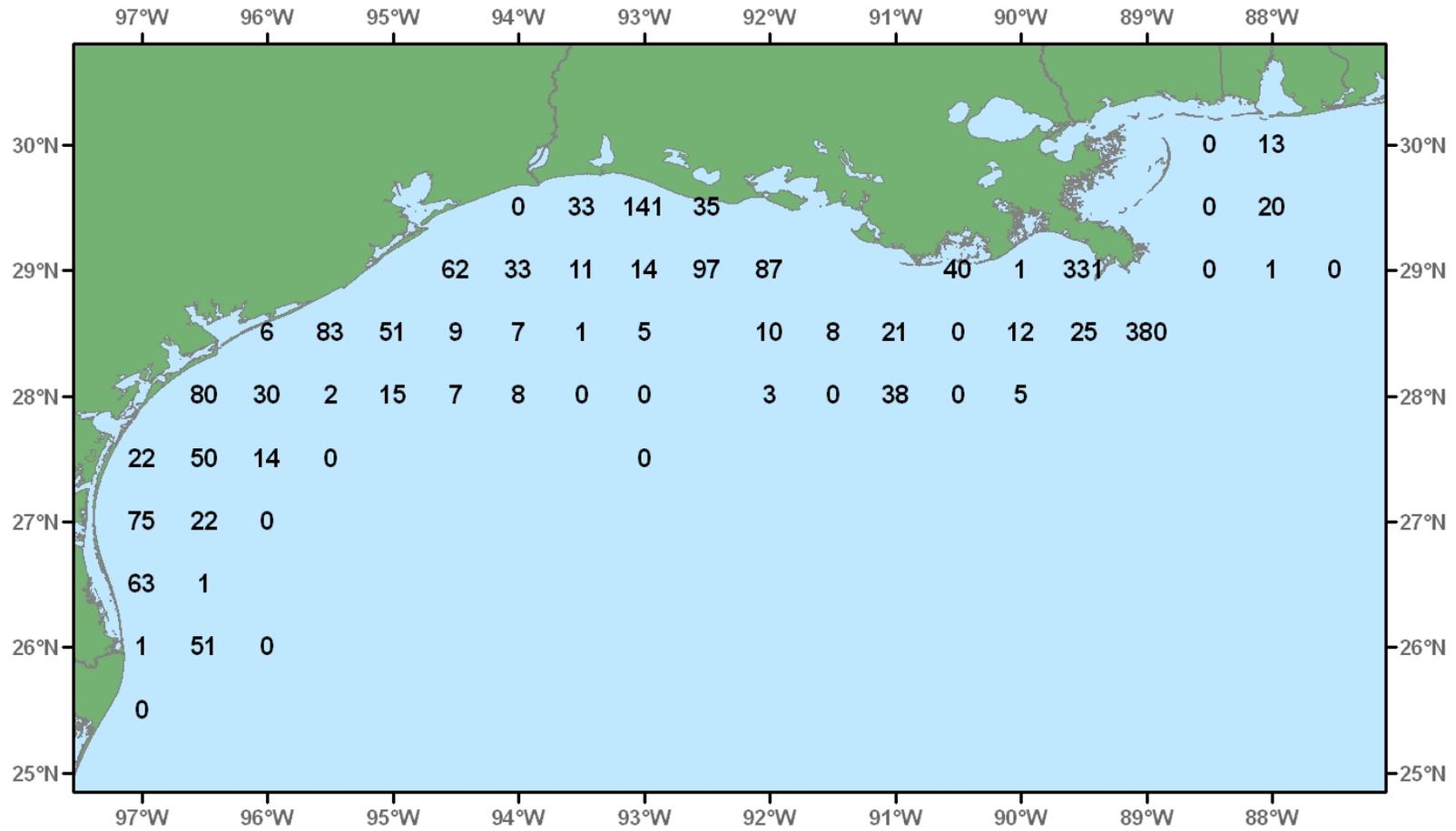


Figure 86. Mantis shrimp, *Squilla empusa*, number/hour for October-December 2006.

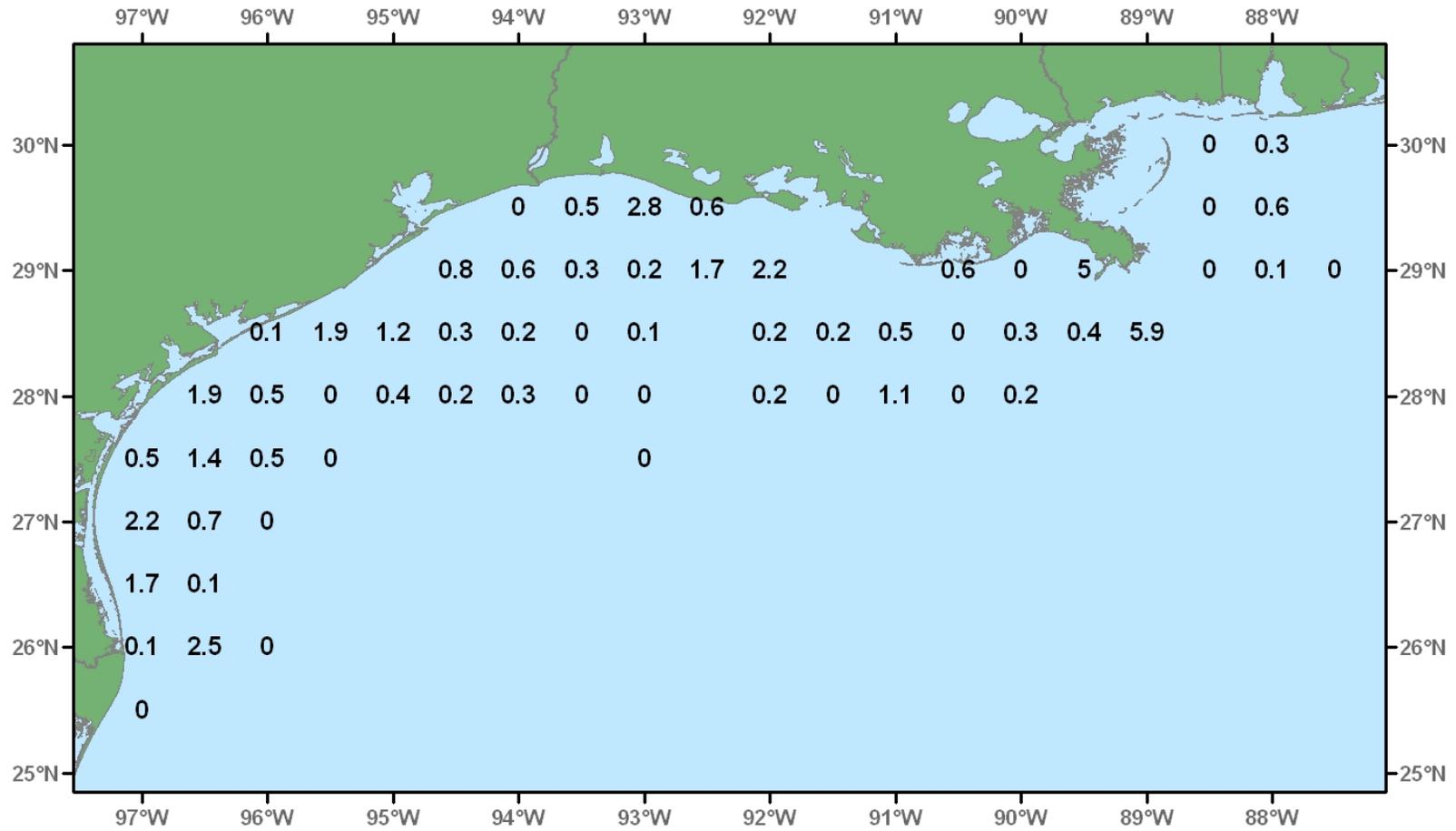


Figure 87. Mantis shrimp, *Squilla empusa*, lb/hour for October-December 2006.

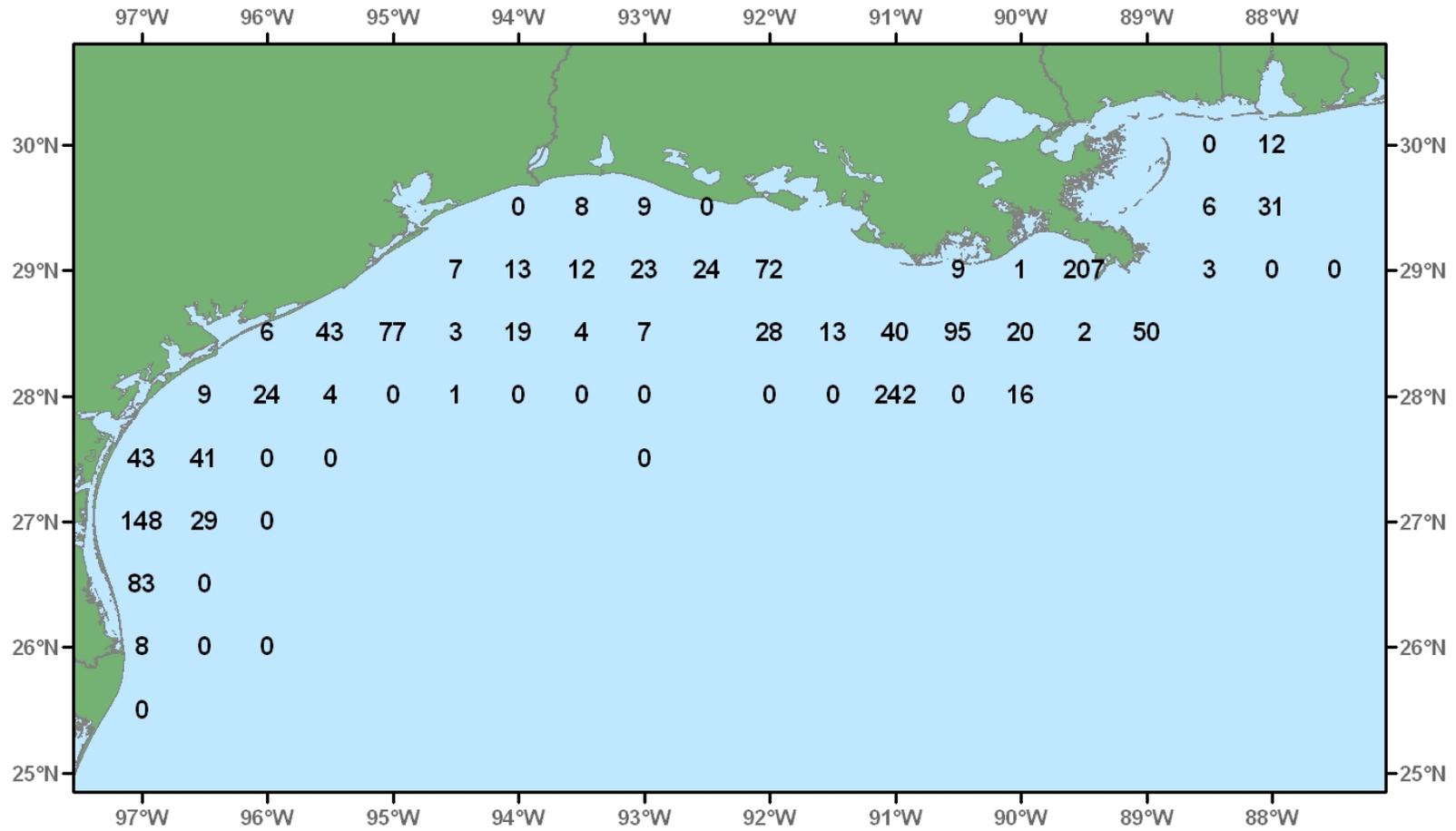


Figure 88. Iridescent swimming crab, *Portunus gibbesii*, number/hour for October-December 2006.

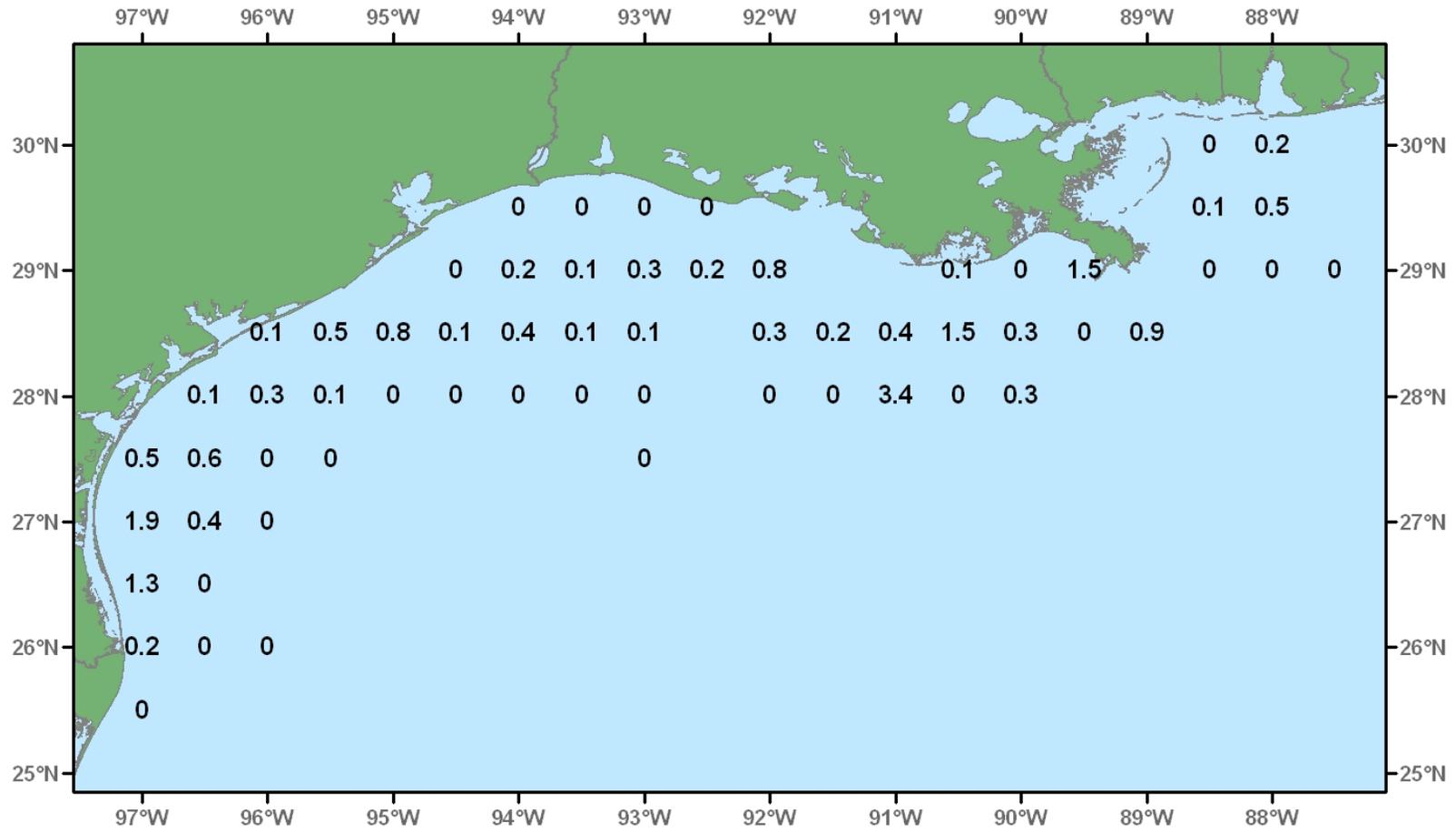


Figure 89. Iridescent swimming crab, *Portunus gibbesii*, lb/hour for October-December 2006.

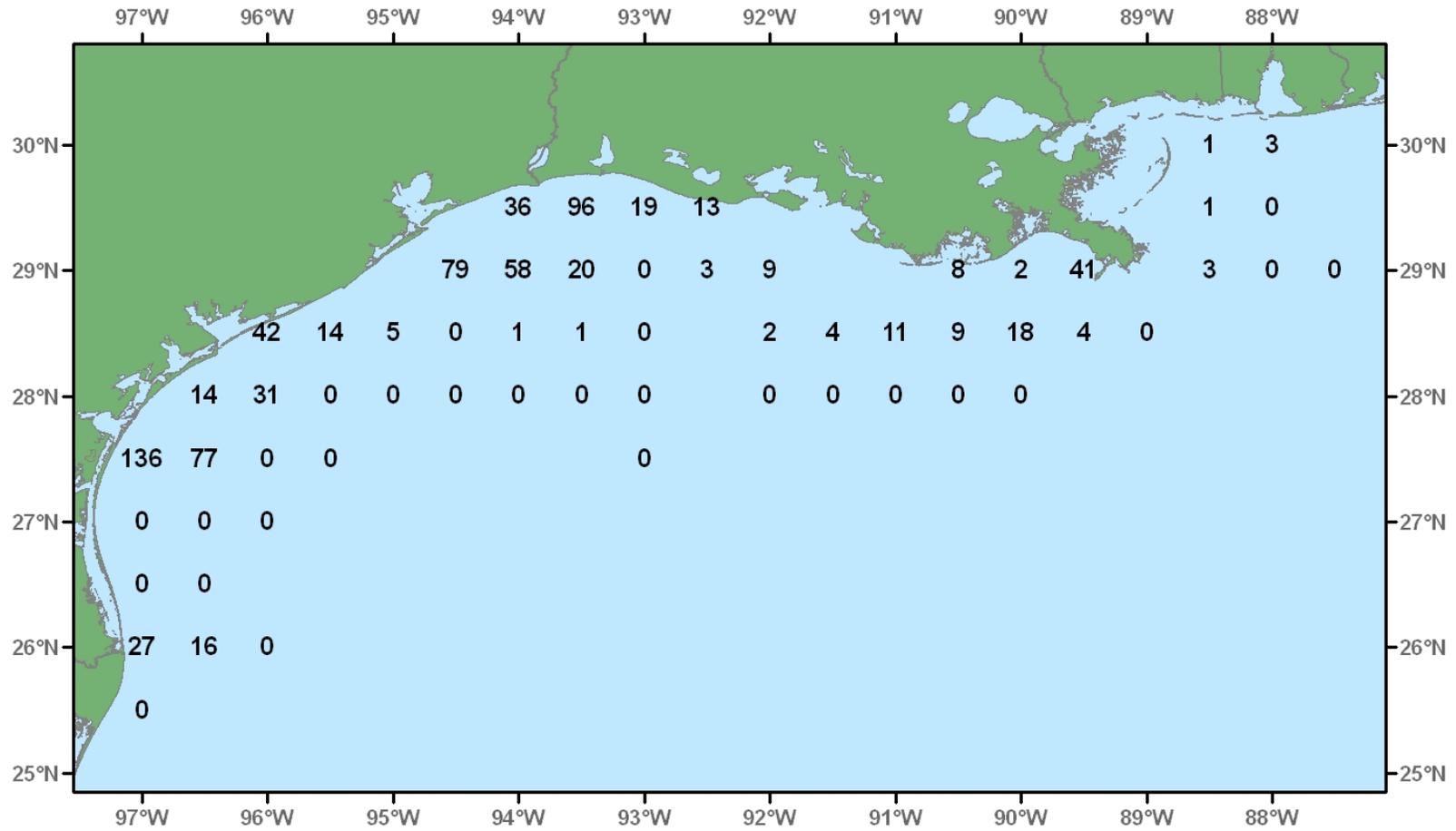


Figure 90. Atlantic brief squid, *Lolliguncula brevis*, number/hour for October-December 2006.

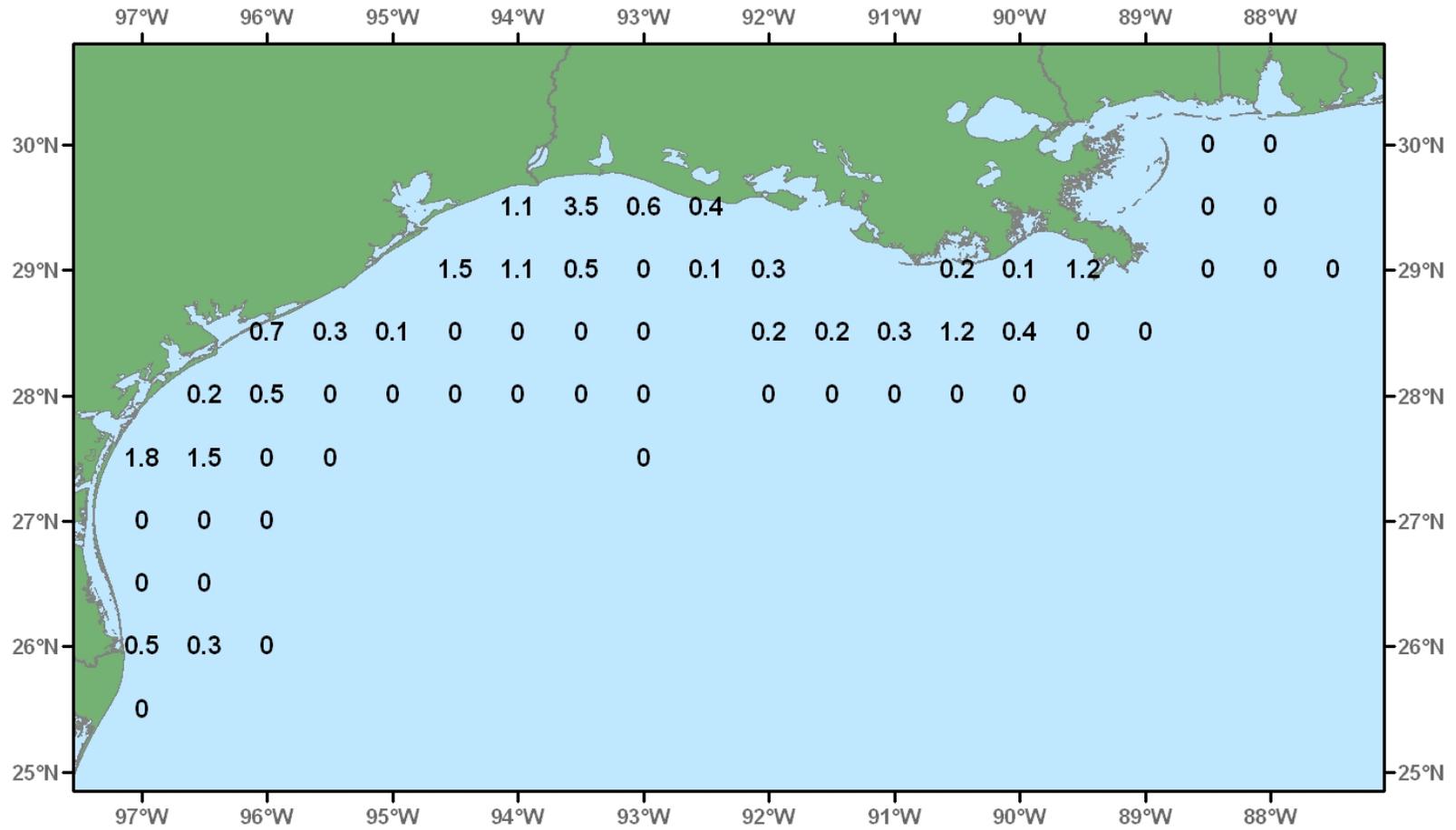


Figure 91. Atlantic brief squid, *Lolliguncula brevis*, lb /hour for October-December 2006.

LITERATURE CITED

- Atlantic States Marine Fisheries Commission. 2006. SEAMAP Management Plan: 2006-2010. Washington, DC: ASMFC.
- Center for Wetland Resources. 1980. Management plan and final environmental impact statement for the shrimp fishery of the Gulf of Mexico, United States waters. Louisiana State Univ., Baton Rouge, Louisiana. 185 p.
- Ditty, J.G. and R.F. Shaw. 1992. Larval development, distribution, and ecology of cobia *Rachycentron canadum* (Family: Rachycentridae), in the northern Gulf of Mexico. Fishery Bulletin. Vol. 90:668-677.
- Ditty, J.G. and R.F. Shaw. 1993. Larval development of tripletail, *Lobotes surinamensis* (Pisces: Lobotidae), and their spatial and temporal distribution in the northern Gulf of Mexico. Fishery Bulletin. Vol. 92:33-45.
- Ditty, J.G., R.F. Shaw, C.B. Grimes, and J.S. Cope. 1994. Larval development, distribution, and abundance of common dolphin, *Coryphaena hippurus*, and pompano dolphin, *C. equiselis* (Family: Coryphaenidae), in the northern Gulf of Mexico. Fishery Bulletin. Vol. 94:275-291.
- Donaldson, D.M., N.J. Sanders, and P.A. Thompson. 1993. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1991. Gulf States Marine Fisheries Commission. No. 29. 321 p.
- Donaldson, D.M., N.J. Sanders, and P.A. Thompson. 1994. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1992. Gulf States Marine Fisheries Commission. No. 30. 293 p.
- Donaldson, D.M., N.J. Sanders, P.A. Thompson and R. Minkler. 1996. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1993. Gulf States Marine Fisheries Commission. No. 34. 284 p.
- Donaldson, D.M., N.J. Sanders, P.A. Thompson and R. Minkler. 1997a. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1994. Gulf States Marine Fisheries Commission. No. 40. 277 p.
- Donaldson, D.M., N.J. Sanders, P.A. Thompson and R. Minkler. 1997b. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1995. Gulf States Marine Fisheries Commission. No. 41. 280 p.
- Donaldson, D.M., N.J. Sanders, P.A. Thompson and D. Hanisko. 1998. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1996. Gulf States Marine Fisheries Commission. No. 52. 263 p.

LITERATURE CITED

- Drass, D.M., K.L. Bootes, J. Lyczkowski-Shultz, B.H. Comyns, G.J. Holt, C.M. Riley, and R.P. Phelps. 2000. Larval development of red snapper, *Lutjanus campechanus*, with comparisons to co-occurring snapper species. Fishery Bulletin. Vol. 98(3):507-527.
- Eldridge, P.J. 1988. The Southeast Area Monitoring and Assessment Program (SEAMAP): A state-federal-university program for collection, management and dissemination of fishery-independent data and information in the southeast United States. Mar. Fish. Rev. 50(2): 29-39.
- Gledhill, C.T. and J. Lyczkowski-Shultz. 2000. Indices of larval king mackerel, *Scomberomorus cavalla*, for use in population assessment in the Gulf of Mexico. Fishery Bulletin. Vol. 98(4):684-691.
- Goodyear, C.P. 1997. An evaluation of the minimum reduction in the 1997 red snapper shrimp bycatch mortality rate consistent with the 2019 recovery target. GMFMC. 14 p. + appendix.
- Grace, M., K.R. Rademacher and M. Russell. 1994. Pictorial guide to the groupers (Teleostei: Serranidae) of the western North Atlantic. NOAA Tech. Report. NMFS 118. 46 p.
- Hanifen, J.G., W.S. Perret, R.P. Allemand and T.L. Romaine. 1995. Potential impacts of hypoxia on fisheries: Louisiana's fishery-independent data. In Proceedings of Gulf of Mexico Program's Hypoxia Conference. November 1995, New Orleans, LA.
- Jeffrey, S.W. and G.F. Humphrey. 1975. New spectrophotometric equations for determining chlorophylls a , b , c_1 and c_2 in higher plants, algae and natural phytoplankton. Biochem. Physiol. Pflanze Bpp. 167: 191-194.
- Kelley, S., T. Potthoff, W.J. Richards, L. Ejsymont and J.V. Gartner. 1985. SEAMAP 1983 - Ichthyoplankton. Larval distribution and abundance of Engraulididae, Carangidae, Clupeidae, Lutjanidae, Serranidae, Sciaenidae, Coryphaenidae, Istiophoridae, Xiphiidae and Scombridae in the Gulf of Mexico. NOAA Tech. Mem., NMFS-SEFC -167.
- Kelley, S., J.V. Gartner, Jr., W.J. Richards and L. Ejsymont. 1990. SEAMAP 1984 & 1985 - Ichthyoplankton. Larval distribution and abundance of Carangidae, Clupeidae, Coryphaenidae, Engraulididae, Gobiidae, Istiophoridae, Lutjanidae, Scombridae, Serranidae, and Xiphiidae in the Gulf of Mexico. NOAA Tech. Mem., NMFS-SESC-317.

LITERATURE CITED

- Kelley, S., J.V. Gartner, Jr., W.J. Richards and L. Ejsymont. 1993. SEAMAP 1986 - Ichthyoplankton. Larval distribution and abundance of Engraulididae, Carangidae, Clupeidae, Gobiidae, Lutjanidae, Serranidae, Coryphaenidae, Istiophoridae and Scombridae in the Gulf of Mexico. NOAA Tech. Mem., NMFS-SESC-245.
- Kramer, D., M.J. Kalin, E.G. Stevens, J.R. Thrailkill and J.R. Zweifel. 1972. Collecting and processing data on fish eggs and larvae in the California Current region. NOAA Technical Report. NMFS Circular 370. 38 p.
- Leming, T.D. and W.E. Stuntz. 1984. Zones of coastal hypoxia revealed by satellite scanning have implications for strategic fishing. *Nature*. 310 (5973): 131-138.
- Lyczkowski-Shultz, J. and R. Brasher. 1996. Ichthyoplankton data summaries from SEAMAP Summer Shrimp/Groundfish Surveys. Pages 27-42 in *Uses of Fishery-Independent Data*. General Session Proceedings, Gulf States Marine Fisheries Commission. No. 35.
- Nichols, S. 1982. Impacts of the 1981 and 1982 Texas closure on brown shrimp yields. NOAA, NMFS-SEFC. 44 p.
- Nichols, S. 1984. Impacts of the 1982 and 1983 closure of the Texas FCZ on brown shrimp yields. Report to the Gulf of Mexico Fishery Management Council.
- Nichols, S. and J.R. Poffenberger. 1987. Analysis of alternative closures for improving brown shrimp yield in the Gulf of Mexico. Report to the Gulf of Mexico Fishery Management Council.
- Posgay, J.A. and R.R. Marak. 1980. The MARMAP bongo zooplankton samplers. *J. Northw. Atl. Fish. Sci.* 1: 9-99.
- Rester, J.K. 2009. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2004. Gulf States Marine Fisheries Commission. No. 173.
- Rester, J.K. 2010. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2005. Gulf States Marine Fisheries Commission. No. 175.
- Rester, J.K., N.J. Sanders, P.A. Thompson and D. Hanisko. 1999. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1997. Gulf States Marine Fisheries Commission. No. 63. 254 p.
- Rester, J.K., N.J. Sanders, G. Pellegrin, Jr. and D. Hanisko. 2000. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1998. Gulf States Marine Fisheries Commission. No. 75. 243 p.

LITERATURE CITED

- Rester, J.K., N.J. Sanders, G. Pellegrin, Jr. and D. Hanisko. 2001. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1999. Gulf States Marine Fisheries Commission. No. 82. 247 p.
- Rester, J.K., N.J. Sanders, G. Pellegrin, Jr. and D. Hanisko. 2002. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2000. Gulf States Marine Fisheries Commission. No. 101. Available on CD-ROM only.
- Rester, J.K., N.J. Sanders, G. Pellegrin, Jr., and D. Hanisko. 2004. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2001. Gulf States Marine Fisheries Commission. No. 118. Available on CD-ROM only.
- Rester, J.K., N.J. Sanders, and G. Pellegrin, Jr. 2008. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2002. Gulf States Marine Fisheries Commission. No. 156.
- Rester, J.K., N.J. Sanders, and G. Pellegrin, Jr. 2009. SEAMAP environmental and biological atlas of the Gulf of Mexico, 2003. Gulf States Marine Fisheries Commission. No. 172.
- Richards, W.J., T. Potthoff, S. Kelley, M.F. McGowan, L. Ejsymont, J.H. Power and R.M. Olvera L. 1984. SEAMAP 1982 - Ichthyoplankton. Larval distribution and abundance of Engraulididae, Carangidae, Clupeidae, Lutjanidae, Serranidae, Sciaenidae, Coryphaenidae, Istiophoridae, Xiphiidae and Scombridae in the Gulf of Mexico. NOAA Tech. Mem., NMFS-SEFC-167.
- Russell, G.M. Unpublished report. Reef fish assessment methodology for SEAMAP surveys of hardbottom areas. National Marine Fisheries Service. 25 p.
- Sanders, N.J., P.A. Thompson and T. Van Devender. 1990a. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1986. Gulf States Marine Fisheries Commission. No. 20. 328 p.
- Sanders, N.J., P.A. Thompson and D.M. Donaldson. 1990b. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1987. Gulf States Marine Fisheries Commission. No. 22. 337 p.
- Sanders, N.J., D.M. Donaldson and P.A. Thompson. 1991a. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1988. Gulf States Marine Fisheries Commission. No. 23. 320 p.
- Sanders, N.J., D.M. Donaldson and P.A. Thompson. 1991b. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1989. Gulf States Marine Fisheries Commission. No. 25. 318 p.

LITERATURE CITED

- Sanders, N.J., D.M. Donaldson and P.A. Thompson. 1992. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1990. Gulf States Marine Fisheries Commission. No. 27. 311 p.
- Scott, G.P., S.C. Turner, C.B. Grimes, W.J. Richards, and E.B. Brothers. 1993. Indices of larval bluefin tuna, *Thunnus thynnus*, abundance in the Gulf of Mexico: modeling variability in growth, mortality, and gear selectivity. *Bulletin of Marine Science*. Vol. 53(2):912-929.
- Sherman, K., R. Lasker, W. Richards and A.W. Kendall, Jr. 1983. Ichthyoplankton and fish recruitment studies in large marine ecosystems. *Mar. Fish. Rev.* 45 (10, 11, 12): 1-25.
- Smith, P.E. and S.L. Richardson, eds. 1977. Standard techniques for pelagic fish egg and larva surveys. *FAO Fish. Tech. Paper* 175. 100 p.
- Southeast Area Monitoring and Assessment Program (SEAMAP) Strategic Plan. 1981. Report to the Gulf States Marine Fisheries Commission. 50 p.
- Strickland, J.D.H. and T.R. Parsons. 1972. A practical handbook of seawater analysis. Ottawa: Fish. Res. Bd. Can. 310 p.
- Stuntz, W.E., C.E. Bryan, K. Savastano, R.S. Waller and P.A. Thompson. 1985. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1982. Gulf States Marine Fisheries Commission. 145 p.
- Thompson, P.A. and N. Bane. 1986a. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1983. Gulf States Marine Fisheries Commission. No. 13. 179 p.
- Thompson, P.A. and N. Bane. 1986b. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1984. Gulf States Marine Fisheries Commission. No. 15. 171 p.
- Thompson, P.A., T. Van Devender and N.J. Sanders, Jr. 1988. SEAMAP environmental and biological atlas of the Gulf of Mexico, 1985. Gulf States Marine Fisheries Commission. No. 17. 338 p.