

# NOAA Technical Memorandum NMFS



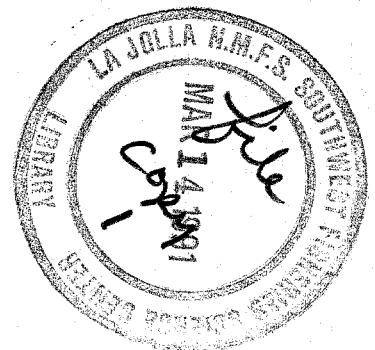
MAY 1990

## REPORT OF ECOSYSTEM STUDIES CONDUCTED DURING THE 1989 EASTERN TROPICAL PACIFIC DOLPHIN SURVEY ON THE RESEARCH VESSEL *DAVID STARR JORDAN*

Lisa J. Lierheimer  
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David W. Behringer

NOAA-TM-NMFS-SWFC-139

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Southwest Fisheries Center



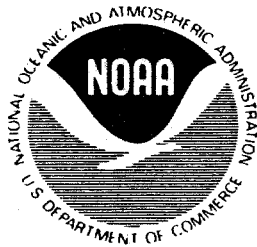
## **NOAA Technical Memorandum NMFS**

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NOAA-TM-NMFS-SWFC-139

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**National Marine Fisheries Service**  
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## INTRODUCTION

The National Marine Fisheries Service (NMFS) has the responsibility of assessing the status of dolphin stocks affected by the tuna purse-seine fishery in the eastern tropical Pacific (ETP). In 1989, the Southwest Fisheries Center (SWFC) conducted the fourth survey of a six-year program to monitor population trends in ETP dolphin stocks (Hill *et al.* 1990). Two NOAA vessels were used, the *David Starr Jordan* (hereafter referred to as the *Jordan*) and the *McArthur*. The vessels operated concurrently in the ETP from July 29 through December 7, 1989. Approximately the same area and time period are surveyed during each year of the program. As part of this monitoring program the SWFC is also studying the physical and biological environment inhabited by the dolphins. This ecosystem approach will facilitate the interpretation of dolphin population trends detected by these surveys, and will provide information necessary for understanding the biological basis of ETP dolphin distribution and abundance.

The physical oceanographic research of the program is being carried out jointly with NOAA's Atlantic Oceanographic and Meteorological Laboratory (AOML), as part of their contribution to the long-term Eastern Pacific Ocean Climate Study (EPOCS) and Tropical Ocean Global Atmosphere (TOGA) programs.

This report describes the types of data collected and sampling techniques used, and summarizes data collected (including disposition of the data) for the environmental studies conducted aboard the *Jordan*. Results from the *McArthur* are available in a separate data report (Lierheimer *et al.* 1990).

## OBJECTIVES

The primary objective of the dolphin habitat monitoring portion of the program is to provide information about the effects of large-scale environmental variation on the estimates of trends in dolphin abundance. These environmental effects are monitored by examining the relationships between dolphin distribution and oceanographic patterns and processes. These phenomena are sampled concurrently with the dolphin sighting survey by measuring regional and local changes in chlorophyll, nutrients, oxygen, temperature, salinity, and the occurrence of seabirds and other animals. These parameters can fluctuate both seasonally and as a result of large scale ocean-atmosphere interactions such as the El Niño Southern Oscillation (ENSO) phenomena. Studying oceanographic patterns and variability in the ETP concurrently with the fauna may reveal regional or local associations.

The studies of surface and subsurface physical properties which are conducted jointly with AOML also contribute to the objectives of the EPOCS and TOGA programs, which include developing the ability to forecast ENSO occurrences.

## STUDY AREA AND ITINERARY

The *Jordan* departed San Diego, California on 29 July 1989 and returned on 7 December 1989. The cruise was conducted in four legs of approximately 30 days each, with scheduled port calls in Puerto Quetzal, Guatemala; La Libertad, Ecuador; and Manzanillo, Mexico. Unscheduled stops in Manzanillo and Acapulco, Mexico were made due to equipment problems and the transfer of helicopter personnel. The cruise tracks for both vessels were chosen to maximize coverage of the known ranges of the two target species, the spotted dolphin (*Stenella attenuata*) and the spinner dolphin, (*Stenella longirostris*) in the ETP (Perrin *et al.* 1983).

The itinerary for the *Jordan* was as follows:

### Leg 1

|           |           |                           |
|-----------|-----------|---------------------------|
| Departure | 29 July   | San Diego, California     |
| Arrival   | 11 August | Manzanillo, Mexico        |
| Departure | 11 August | Manzanillo, Mexico        |
| Arrival   | 27 August | Puerto Quetzal, Guatemala |

### Leg 2

|           |              |                           |
|-----------|--------------|---------------------------|
| Departure | 3 September  | Puerto Quetzal, Guatemala |
| Arrival   | 11 September | Acapulco, Mexico          |
| Departure | 14 September | Acapulco, Mexico          |
| Arrival   | 30 September | La Libertad, Ecuador      |

### Leg 3

|           |            |                      |
|-----------|------------|----------------------|
| Departure | 5 October  | La Libertad, Ecuador |
| Arrival   | 25 October | Manzanillo, Mexico   |

### Leg 4

|           |             |                       |
|-----------|-------------|-----------------------|
| Departure | 1 November  | Manzanillo, Mexico    |
| Arrival   | 30 November | Manzanillo, Mexico    |
| Departure | 1 December  | Manzanillo, Mexico    |
| Arrival   | 7 December  | San Diego, California |

## MATERIALS AND METHODS

### Oceanography

While the ship was underway, temperature, salinity, and fluorescence of surface water were measured and recorded continuously in digital form and on strip-charts. Sea water was sampled continuously from a bow intake 3 meters below the surface. Temperature and salinity were measured

with an ODEC<sup>1</sup> Model TSG-102 Thermosalinograph. *In vivo* fluorescence was measured with a Turner Designs fluorometer. These data were recorded on a data acquisition system consisting of an AI08 A/D board (Industrial Computer Source) connected to an IBM PC compatible microcomputer (Holland 1989). Discrete water samples were collected at regular intervals to verify continuous data.

Conductivity temperature and depth (CTD) device casts were made two times per day using a Neil-Brown CTD. Each CTD cast lasted approximately 60 minutes. The CTD was lowered to 1000 meters and sensors connected to shipboard computers measured conductivity (salinity), temperature, pressure (depth), and dissolved oxygen.

Eleven Niskin bottles on the CTD rosette collected water from discrete depths (20, 40, 60, 80, 100, 125, 150, 200, 350, 500 and 1000 m). At each CTD station, surface chlorophyll was sampled from the ship's seawater intake. Eight 275 ml samples (0-150 m) were collected for chlorophyll analysis at each station. Nutrients were sampled (nitrate, nitrite, phosphate and silicate) only at evening CTD stations. Surface nutrients were sampled from the ship's seawater intake. Eleven 20 ml samples (0-500 m) were collected for nutrient analysis at each evening CTD.

Extracted chlorophyll and phaeophytin were measured with a Turner 111 fluorometer. Nutrient samples were collected and frozen immediately for later analysis. Three 150 ml salinity samples and three 250 ml oxygen samples were also collected from each cast and analyzed for the purpose of CTD calibration.

Expendable bathythermograph (XBT) drops were made daily at 0000, 0800, 1200, and 1600 hours (local time). A Shipboard Environmental data Acquisition System (SEAS) was utilized. XBT data were transmitted to shore via the GOES (Geostationary Operational Environmental Satellite) every four hours. Position, time and date for each drop were recorded on NOAA XBT logs and disks.

An acoustic data acquisition system (ADA) was operated during the entire cruise on the *Jordan*. Acoustic backscatter was recorded using a 38 kHz depth sounder. Backscatter was digitized and integrated in 10-meter intervals between the surface and a depth of 500 meters. Thirty pings were averaged every fifteen minutes to reduce data volume.

Seven satellite-tracked drift buoys were deployed at predetermined locations. These buoys transmit signals which are received by NOAA satellites and transferred to the ARGOS service facility in Toulouse, France. The deployments, arranged by Don Hansen of AOML, were for EPOCS and TOGA investigations of surface currents.

### Biological Observations

Seabird censuses were conducted using standard 300 m strip-transect methodology and hand-held binoculars. Weather permitting, bird observers stood shifts on the flying bridge throughout the daylight hours when the ship was underway. Species identification, numbers, and behaviors of birds were recorded, as well as associations with marine mammals, fish or flotsam. Flock compositions and occasionally, individual identifications were verified using mounted 25X binoculars.

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<sup>1</sup> Reference to trade names does not imply endorsement by NMFS.



A separate census using strip-transect methods and 25X binoculars was conducted to quantify distribution and abundance of seabird flocks. The species composition and number of individuals for all seabird flocks within 2.2 miles of the ship were recorded.

Manta tows were conducted each night immediately following the CTD station, using a 505  $\mu\text{m}$ -mesh manta net with a mouth opening of 15 cm X 86 cm. A General Oceanics flowmeter was suspended in the center of the net mouth. The net was towed from the starboard hydrographic wire for fifteen minutes. Samples were preserved in formalin, labeled and stored.

Surface organisms were sampled during evening CTD stations to collect information on the occurrence, relative abundance and distribution of flying fishes in the ETP. Two 500-watt lamps were suspended over the side of the ship to attract animals, and a long-handled dipnet was used to collect them. Other information collected during these stations included species observed, relative abundance, and pertinent environmental data (e.g. sea surface temperature and salinity, sea state, and moon phase).

Counts of flying fish were made four times daily from the flying bridge (0730-0800, 1030-1100, 1330-1400, and 1630-1700). Watches were postponed up to one hour when the ship was not travelling at maximum speed. The observation area was a 90° sector extending to approximately 50 meters. The frequency of individual and group flight was recorded and identification was made to genus when possible.

As part of a long-term study of the distribution and ecology of sea turtles in the ETP, all sightings of marine turtles made incidental to the systematic marine mammal and seabird surveys were recorded. The angle and distance of the turtle from the track line, an estimate of the size of the turtle, and associations with birds, fish, flotsam and other turtles were also recorded. Under normal field conditions, specific identification of sea turtles other than leatherbacks (*Dermochelys coriacea*) is difficult. Therefore, in order to obtain a sample of identified individuals, turtles that passed close by the ship (usually within 50 meters) were photographed with a telephoto lens. Live turtles were captured opportunistically for the purpose of freeing them from entanglement. Dead turtles were salvaged to obtain life history data, stomach contents, and reproductive tracts. The handling of live turtles and the salvage of dead turtles in international waters are covered by Endangered Species Permit No. 691, Modification No. 1. Importation of endangered species parts is covered by CITES permit US742057.

Fish stomach contents were collected opportunistically and analyzed for a food habits study. Fish were caught by rod and reel or trolling. The fish were identified, sexed, and measured. Associations with flotsam, other fish, bird flocks or mammals were recorded. Stomach contents were identified and measured. Unidentifiable stomach contents were preserved in alcohol for later identification. Seabirds were collected opportunistically for gut content analysis.

## RESULTS

Hill *et al.* (1990) reported on the dolphin assessment methods and data collected from the 1989 *Jordan* cruise.

The cruise track for the *Jordan* is plotted in Figure 1. Table 1 lists the total numbers of environmental and biological samples, by category, collected on the *Jordan*.

## Oceanography

Digital records of continuous surface data from the thermosalinograph and fluorometer are now being analyzed at the SWFC. Plots of continuous environmental data from the 1986-1988 surveys have been published in a separate report<sup>2</sup>.

Figure 2 shows the locations of the 163 CTD casts. Of these, ten were hydrocasts (water samples only) and four were partial casts. Problems hindering CTD data collection occurred during legs 1 and 2 of the cruise, requiring special attention and processing. Uncorrected CTD temperature and salinity data are included in Appendix A.

XBT data were sent by the SEAS to the National Ocean Service, NOAA<sup>3</sup>. Digital XBT data were edited by AOML. Figure 3 shows XBT deployment locations. During Leg 2, problems with the launcher caused XBT drops to be suspended until Leg 3.

Oxygen bottle data were analyzed on board using a Winkler-titration system prepared by the Ocean Chemistry Division at AOML. Reagents were systematically checked for contamination.

Discrete chlorophyll samples were analyzed at sea and data were processed at the SWFC in La Jolla. Results are presented in Appendix A. Surface and integrated (0-150 m) chlorophyll concentrations, from both the *Jordan* and the *McArthur*, are mapped in Figures 4 and 5.

Selected frozen nutrient samples were shipped to Monterey Bay Aquarium Research Institute to be analyzed. Nutrient and chlorophyll data will be submitted to NOAA/National Oceanographic Data Center.

No acoustic backscatter data were obtained due to a system malfunction.

Table 2 lists the locations and dates of the seven drifting buoy deployments. Figure 6 shows the tracks of these buoys.

## Biological Observations

A total of 768.6 hours during 104 days was spent on effort for the seabird distribution and abundance survey. During this time, 4,949 individuals of 54 species were recorded (Table 1).

Abundance of seabirds varied according to the area surveyed, a fact evidenced by the differences in abundance of a single species for different legs. In general, the most abundant family of seabirds was Procellariidae (petrels and shearwaters), primarily represented by Juan Fernandez Petrels and Wedge-tailed Shearwaters. The second most abundant family was Oceanitidae (storm-petrels), represented in greatest abundance by Leach's and Galapagos Storm-Petrel. The third most

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<sup>2</sup> Fiedler, P.C., S.B. Reilly, S.N. Sexton, R.S.Holt, and D.P. DeMaster. 1990. Atlas of eastern tropical Pacific oceanographic variability and cetacean sightings, 1986-1988. Submitted as NOAA Technical Report NMFS.

<sup>3</sup> Persons wishing to receive copies of these data should write to: National Ocean Service, Universal Bldg. South, Rm. 618, 1825 Connecticut Ave., NW, Washington D.C., 20235.

abundant family was Sulidae (boobies), represented primarily by Red-footed and Brown Boobies (Tables 3 and 4).

Manta tow samples have been sorted and are now being identified at SWFC.<sup>4</sup>

Figure 7 shows the locations of 124 dipnet stations occupied during the cruise. Table 5 summarizes data and specimens collected for each of the stations. A total of 967 flying fish, 531 *Oxyporhamphus micropterus*, 388 miscellaneous fish, and 29 (mostly juvenile) squid was collected. Specimens will be processed at SWFC; the fish will be donated to the Marine Vertebrate Collection of Scripps Institution of Oceanography and the squid will go to the Santa Barbara Natural History Museum.

A total of 337 observation periods during 100 days was spent on effort for a flying fish geographic density study. A total of 38,016 flying fish was counted which included 33,359 *Exocoetus* (two-winged), 335 *Cypselurus*, 330 *Hirundichthys*, 1190 unidentified Cypselurinae (four-winged), 1235 juvenile, and 1570 unidentified flying fish (Exocoetidae). Data will be analyzed at the SWFC.

The locations of 465 individual sea turtle sightings are plotted in Figure 8. Sightings included 70 olive ridleys (including 8 dead), *Lepidochelys olivacea*; 3 loggerheads, *Caretta caretta*; 3 greens, *Chelonia mydas*; 7 leatherbacks, *Dermochelys coriacea*; and 382 unidentified sea turtles (including 4 dead). Seven dead olive ridleys were salvaged. Each turtle was photographed, measured, and inspected for tags. Carapace epibionts and 6 stomach contents were collected for later identification. Also collected were 1 reproductive tract, 2 skulls, and 5 carapaces. The cause of death was undetermined in all turtles with the exception of one which appeared to be related to a long line fishery interaction and another as a result of a wound from a billfish. Data will be analyzed at the SWFC.

A single olive ridley caught in an abandoned fishing net was tagged (NMFS-Honolulu tag No.s X-253, X-254), measured (62.4 cm SCL), and released on 27 November at 16° 47' N 111° 05' W. At the request of Scripps Aquarium, a green turtle (*Chelonia mydas agassizzi*) was released at 13° 24' N 91° 01' W on 26 August. The turtle had been raised from a hatchling at Scripps. It was tagged (NMFS-Honolulu tag No.s X-250, X-251) and measured (27.4 cm SCL) before release.

A total of 192 fish was caught for stomach content analysis including 90 mahi mahi (*Coryphaena hippurus*), 100 tuna (5 spp.), and 2 wahoo (*Acanthocybium solandri*). A total of 23 seabirds was collected for gut content analysis. Data will be analyzed at the SWFC.

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<sup>4</sup> Questions concerning these samples may be addressed to Dr. Geoff Moser at the SWFC.

## ACKNOWLEDGEMENTS

Many people contributed to the success of this cruise. We especially wish to thank the following people whose invaluable efforts made this project possible: the officers and crew of the NOAA ship *David Starr Jordan* for their considerable time and skilled efforts. The marine mammal observers and other cruise participants for their assistance with data collection on ancillary projects. C. Oliver contributed data programming support. R. Holland contributed many of the plots and assisted in procurement and computer logistics. B. Watkins provided support in procurement. J. Barlow created and modified the Acoustic Data Acquisition system. W. Krug acted as a liaison between AOML, Scripps Institution of Oceanography, Pacific Marine Center and Southwest Fisheries Center. We are grateful to I. Barrett, J. Carr, and D. DeMaster for their continued support during the cruise preparations and during the cruise itself.

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Table 1. Summary of environmental and biological data collected, Jordan, 29 July - 7 December, 1989<sup>1</sup>

| Leg   | XBT | CTD | Chlor a | Nutrients | Manta Tows | Flying Fish Collected | Flying Fish Counted | Fish Stomachs Sampled | Bird Stomachs Sampled | Turtle Sightings | Bird Sightings | Bird Effort                                     |
|-------|-----|-----|---------|-----------|------------|-----------------------|---------------------|-----------------------|-----------------------|------------------|----------------|---|
| I     | 102 | 39  | 420     | 206       | 19         | 243                   | 8599<br>(81)*       | 53                    | 11                    | 88               | 1500           | 199.2 hours<br>7.4 avg hrs/day<br>27 total days |
| II    | 21  | 40  | 392     | 211       | 20         | 199                   | 7250<br>(72)        | 72                    | 10                    | 260              | 1438           | 169.0 hours<br>6.8 avg hrs/day<br>25 total days |
| III   | 78  | 27  | 295     | 143       | 12         | 149                   | 2972<br>(60)        | 35                    | 2                     | 74               | 638            | 133.2 hours<br>7.4 avg hrs/day<br>18 total days |
| IV    | 130 | 57  | 592     | 330       | 29         | 382                   | 19195<br>(124)      | 31                    | 0                     | 43               | 1373           | 267.2 hours<br>7.8 avg hrs/day<br>34 total days |
| TOTAL | 331 | 163 | 1,699   | 890       | 80         | 973                   | 38016               | 191                   | 23                    | 465              | 4949           | 768.6 hours<br>7.4 avg hrs/day<br>104 days      |

1. Continuous sea surface fluorometry, temperature and salinity measured during all 4 legs.

\*Number of observation periods.

Table 2. Deployment locations of seven drift buoys, *Jordan*, 29 July - 7 December, 1989.

| DATE        | LATITUDE  | LONGITUDE  |
|-------------|-----------|------------|
| 23 August   | 12 0.0 N  | 99 59.9 W  |
| 25 August   | 13 23.1 N | 92 59.9 W  |
| 18 October  | 11 30.0 N | 89 0.0 W   |
| 12 November | 10 59.8 N | 96 40.6 W  |
| 14 November | 9 36.4 N  | 92 32.6 W  |
| 21 November | 0 4.0 N   | 105 45.0 W |
| 25 November | 10 2.0 N  | 112 25.4 W |

Table 3. Number of seabirds recorded, listed by family, *Jordan*, 29 July - 7 December, 1989.

|  | Leg I | Leg II | Leg III | Leg IV | TOTAL |
|--|-------|--------|---------|--------|-------|
| ALBATROSSES (Diomedidae)                                 | 0     | 0      | 1       | 0      | 1     |
| PETRELS AND SHEARWATERS (Procellariidae)                 | 628   | 534    | 65      | 146    | 1373  |
| PTERODROMA PETRELS                                       | 386   | 285    | 7       | 10     | 688   |
| OTHER PETRELS (Bulweria, Procellaria, Fulmarus, Daption) | 3     | 9      | 2       | 0      | 14    |
| SHEARWATERS (Puffinus)                                   | 239   | 240    | 56      | 136    | 671   |
| STORM-PETRELS (Oceanitidae)                              | 293   | 189    | 142     | 505    | 1129  |
| TROPICBIRDS (Phaethontidae)                              | 16    | 19     | 12      | 18     | 65    |
| PELICANS (Pelecanidae)                                   | 0     | 0      | 0       | 0      | 0     |
| BOOBIES (Sulidae)  | 238   | 362    | 217     | 276    | 1043  |
| CORMORANTS (Phalacrocoracidae)                           | 1     | 0      | 0       | 2      | 3     |
| FRIGATEBIRDS (Fregatidae)                                | 8     | 66     | 29      | 27     | 130   |
| PHALAROPES (Phalaropodidae)                              | 266   | 153    | 55      | 242    | 716   |
| JAEGERES (Stercorariidae)                                | 29    | 44     | 15      | 42     | 130   |
| GULLS, TERNS AND NODDIES (Laridae)                       | 19    | 59     | 48      | 61     | 187   |
| GULLS (Larus)  | 0     | 5      | 6       | 33     | 44    |
| TERNS (Sterna, Chlidonias, Gygis)                        | 19    | 54     | 30      | 28     | 131   |
| NODDIES (Anous)  | 0     | 0      | 12      | 0      | 12    |
| ALCIDS (Alcidae)   | 0     | 0      | 0       | 0      | 0     |

Table 4. Identity and numbers of seabirds recorded, *Jordan*, 29 July - 7 December, 1989.

| Common Name                           | Scientific Name                           | Leg I | Leg II | Leg III | Leg IV | TOTAL |
|---------------------------------------|---|-------|--------|---------|--------|-------|
| Red-footed Booby                      | <i>Sula sula</i>                          | 43    | 208    | 122     | 55     | 428   |
| Juan Fernandez/White-necked Petrel    | <i>Pterodroma e. externa/e.cervicalis</i> | 230   | 167    | 3       | 4      | 404   |
| Leach's Storm-Petrel (White-rumped)   | <i>Oceanodroma leucorhoa</i>              | 56    | 41     | 44      | 218    | 359   |
| Brown Booby                           | <i>Sula leucogaster</i>                   | 84    | 15     | 58      | 171    | 328   |
| Wedge-tailed Shearwater (Dark Morph)  | <i>Puffinus pacificus</i>                 | 152   | 82     | 3       | 11     | 248   |
| Galapagos Storm-Petrel                | <i>Oceanodroma tethys</i>                 | 81    | 87     | 33      | 37     | 238   |
| Red Phalarope                         | <i>Phalaropus fulcarius</i>               | 55    | 58     | 23      | 35     | 171   |
| Wedge-tailed Shearwater (Light Morph) | <i>Puffinus pacificus</i>                 | 33    | 46     | 30      | 62     | 171   |
| Juan Fernandez Petrel                 | <i>Pterodroma externa</i>                 | 89    | 45     | 0       | 0      | 134   |
| Masked Booby (Orange-billed Morph)    | <i>Sula dactylatra</i>                    | 16    | 73     | 25      | 7      | 121   |
| Masked Booby                          | <i>Sula dactylatra</i>                    | 44    | 52     | 9       | 9      | 114   |
| Frigatebird                           | <i>Fregata sp.</i>                        | 7     | 58     | 23      | 20     | 108   |
| Masked Booby (Yellow-billed Morph)    | <i>Sula dactylatra</i>                    | 51    | 5      | 0       | 34     | 90    |
| Townsend's/Newell's Shearwater        | <i>Puffinus auricularis/newelli</i>       | 5     | 33     | 1       | 16     | 55    |
| Red-billed Tropicbird                 | <i>Phaethon aethereus</i>                 | 11    | 16     | 12      | 15     | 54    |
| Pomarine Jaeger                       | <i>Stercorarius pomarinus</i>             | 13    | 8      | 4       | 26     | 51    |
| Shorebird                             |   | 20    | 16     | 11      | 0      | 47    |
| Arctic Tern                           | <i>Sterna paradisaea</i>                  | 1     | 23     | 23      | 0      | 47    |
| Leach's Storm-Petrel (Dark-rumped)    | <i>Oceanodroma leucorhoa</i>              | 28    | 0      | 3       | 16     | 47    |
| Audubon's Shearwater                  | <i>Puffinus lherminieri</i>               | 16    | 26     | 3       | 2      | 47    |
| Sooty Tern                            | <i>Sterna fuscata</i>                     | 16    | 2      | 3       | 2      | 43    |
| Pink-footed Shearwater                | <i>Puffinus creatopus</i>                 | 3     | 23     | 6       | 6      | 38    |
| Sooty Shearwater                      | <i>Puffinus griseus</i>                   | 0     | 0      | 1       | 34     | 35    |
| Passerine                             |   | 0     | 7      | 20      | 6      | 33    |
| Tahiti Petrel                         | <i>Pterodroma rostrata</i>                | 12    | 18     | 2       | 1      | 33    |
| Northern Phalarope                    | <i>Phalaropus lobatus</i>                 | 10    | 1      | 3       | 13     | 27    |
| Black Tern                            | <i>Chlidonias niger</i>                   | 2     | 3      | 0       | 14     | 19    |
| Kermadec Petrel                       | <i>Pterodroma neglecta</i>                | 4     | 13     | 1       | 0      | 18    |
| Parasitic Jaeger                      | <i>Stercorarius parasiticus</i>           | 2     | 9      | 2       | 4      | 17    |
| Cook's Petrel                         | <i>Pterodroma cookii</i>                  | 17    | 0      | 0       | 0      | 17    |
| Dark-rumped Petrel                    | <i>Pterodroma phaeopygia</i>              | 1     | 12     | 1       | 2      | 16    |
| California Gull                       | <i>Larus californicus</i>                 | 0     | 0      | 0       | 15     | 15    |
| Great Frigatebird                     | <i>Fregata minor</i>                      | 1     | 5      | 3       | 5      | 14    |
| Harcourt's Storm-Petrel               | <i>Oceanodroma castro</i>                 | 0     | 2      | 10      | 1      | 13    |
| Black Storm-Petrel                    | <i>Oceanodroma melania</i>                | 0     | 7      | 2       | 2      | 11    |
| Brown Noddy                           | <i>Anous stolidus</i>                     | 0     | 0      | 11      | 0      | 11    |
| Parkinson's Petrel                    | <i>Procellaria parkinsoni</i>             | 0     | 9      | 2       | 0      | 11    |
| Blue-footed Booby                     | <i>Sula nebouxi</i>                       | 0     | 8      | 2       | 0      | 10    |
| Red-tailed Tropicbird                 | <i>Phaethon rubricauda</i>                | 5     | 2      | 0       | 3      | 10    |
| White-winged Petrel                   | <i>Pterodroma leucoptera</i>              | 1     | 9      | 0       | 0      | 10    |
| Magnificent Frigatebird               | <i>Fregata magnificens</i>                | 0     | 3      | 3       | 2      | 8     |
| Western Gull                          | <i>Larus occidentalis</i>                 | 0     | 0      | 0       | 6      | 6     |
| Sabine's Gull                         | <i>Larus sabini</i>                       | 0     | 3      | 3       | 0      | 6     |
| Christmas Island Shearwater           | <i>Puffinus nativitatus</i>               | 1     | 2      | 1       | 1      | 5     |
| White Tern                            | <i>Gygis alba</i>                         | 0     | 0      | 0       | 5      | 5     |
| Bonaparte's Gull                      | <i>Larus philadelphia</i>                 | 0     | 0      | 0       | 5      | 5     |
| Laughing Gull                         | <i>Larus atricilla</i>                    | 0     | 0      | 1       | 4      | 5     |
| Townsend's Shearwater                 | <i>Puffinus auricularis</i>               | 4     | 0      | 0       | 0      | 4     |
| Common Tern                           | <i>Sterna hirundo</i>                     | 0     | 0      | 0       | 4      | 4     |
| Swallow-tailed Gull                   | <i>Larus furcatus</i>                     | 0     | 2      | 2       | 0      | 4     |
| Skua                                  | <i>Catharacta sp.</i>                     | 0     | 1      | 1       | 2      | 4     |
| Least Storm-Petrel                    | <i>Halocyptena microsoma</i>              | 0     | 2      | 0       | 2      | 4     |
| Bulwer's Petrel                       | <i>Bulweria bulweri</i>                   | 3     | 0      | 0       | 0      | 3     |
| Bridled Tern                          | <i>Sterna anaethetus</i>                  | 0     | 3      | 0       | 0      | 3     |
| Black-winged Petrel                   | <i>Pterodroma nigripennis</i>             | 0     | 1      | 0       | 1      | 2     |
| Markham's Storm-Petrel                | <i>Oceanodroma markhami</i>               | 0     | 0      | 2       | 0      | 2     |
| Leach's Storm-Petrel                  | <i>Oceanodroma leucorhoa</i>              | 2     | 0      | 0       | 0      | 2     |
| Herald Petrel                         | <i>Pterodroma heraldica</i>               | 0     | 0      | 0       | 2      | 2     |
| Wedge-tailed Shearwater               | <i>Puffinus pacificus</i>                 | 1     | 1      | 0       | 0      | 2     |
| Waved Albatross                       | <i>Diomedea irrorata</i>                  | 0     | 0      | 1       | 0      | 1     |
| Black Noddy                           | <i>Anous tenuirostris</i>                 | 0     | 0      | 1       | 0      | 1     |
| Long-tailed Jaeger                    | <i>Stercorarius longicaudus</i>           | 1     | 0      | 0       | 0      | 1     |
| White-throated Storm-Petrel           | <i>Nesofregatta albigularis</i>           | 0     | 1      | 0       | 0      | 1     |
| TOTAL                                 |   | 1121  | 1228   | 514     | 880    | 3743  |



Table 5. Results of night-light dipnet sampling, JORDAN, 30 July - 7 December, 1989.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 1                              | 89-07-31      | 1.0                   | 26 26 N 114 16 W               | 4.0                       | 5                          | 1                         | 21.0       | 33.65      | 30                           | 3  | 3                             | 1                          | 4   |                                |
| 1                              | 89-07-31      | 1.0                   | 26 26 N 114 16 W               | 4.0                       | 5                          | 1                         | 21.0       | 33.65      | 100                          | 4  |                               |                            |   |                                |
| 1                              | 89-07-31      | 1.0                   | 26 26 N 114 16 W               | 4.0                       | 5                          | 1                         | 21.0       | 33.65      | 500                          | 1  |                               |                            |   |                                |

- VESSEL: 01 - David Starr Jordan; 02 - McArthur

- COLLECTOR: 01 - Pitman; 02 - LeDuc; 03 - Rittmaster; 04 - Smith

<sup>1</sup> - Records without Station numbers reflect opportunistic, or non-standard specimen collections.

<sup>2</sup> - Beaufort Scale

<sup>3</sup> - 1 = quarter moon; 2 = half moon; 3 = 3/quarter moon; 4 = full moon; 5 = no moon; 6 = new moon.

<sup>4</sup> - 1 = clear; 2 = partly cloudy; 3 = overcast; 4 = rain; 5 = other or unknown.

<sup>5</sup> - 005 = Unidentified flying fish  
 010 = Oxyporharphus micropterus  
 015 = Fodiator spp.  
 020 = Exocetus spp.  
 030 = Unidentified 4-wing flying fish  
 060 = Elassichthys  
 080 = Hemiramphidae (halfbeaks)  
 090 = Belonidae (needlefish)  
 100 = Myctophidae (lanternfish)  
 125 = Vinciguerria spp.  
 200 = Scombridae (tunas)  
 300 = Gempylidae (snake mackerel)  
 400 = Coryphaenidae (dolphinfish)  
 500 = Other  
 700 = Octopoda (pelagic octopus)  
 900 = Sea Snake

<sup>6</sup> - 1 = "a couple" (1-3)  
 2 = "a few" (4-8); uncommon  
 3 = "several" (9-15); fairly common  
 4 = "common" (16-50)  
 5 = "abundant" (51-150)  
 6 = "superabundant" (150+)  
 7 = 1000's  
 8 = "present"  
 9 = "possibly present"

<sup>7</sup> - 1 = Large (mantle length > 8 inches)  
 2 = Medium (3 inches ≤ mantle length ≤ 8 inches)  
 3 = Small (mantle length < 3 inches)

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 2                              | 89-08-01      | 1.0                   | 22 43 N 114 20 W               | 4.0                       | 5                          | 1                         | 24.4       | 34.08      | 100                          | 2  |                               | 3                          | 1   |                                |
| 2                              | 89-08-01      | 1.0                   | 22 43 N 114 20 W               | 4.0                       | 5                          | 1                         | 24.4       | 34.08      | 300                          | 1  |                               | 2                          | 1   |                                |
| 2                              | 89-08-01      | 1.0                   | 22 43 N 114 20 W               | 4.0                       | 5                          | 1                         | 24.4       | 34.08      | 500                          | 1  | 2                             |                            |   |                                |
|                                | 89-08-01      |                       | 22 13 N 114 18 W               |                           |                            |                           |            |            | 20                           |  | 1                             |                            |   |                                |
| 3                              | 89-08-02      | 1.0                   | 19 30 N 114 56 W               | 4.0                       | 5                          | 3                         | 26.4       | 34.50      | 10                           | 1  | 1                             | 1                          | 2   |                                |
| 3                              | 89-08-02      | 1.0                   | 19 30 N 114 56 W               | 4.0                       | 5                          | 3                         | 26.4       | 34.50      | 20                           | 1  | 1                             | 3                          | 1   |                                |
| 3                              | 89-08-02      | 1.0                   | 19 30 N 114 56 W               | 4.0                       | 5                          | 3                         | 26.4       | 34.50      | 500                          | 1  | 1                             |                            |   |                                |
| 4                              | 89-08-03      | 1.0                   | 16 50 N 117 14 W               | 2.0                       | 5                          | 3                         | 27.6       | 34.39      | 20                           | 2  | 4                             | 1                          | 3   |                                |
| 4                              | 89-08-03      | 1.0                   | 16 50 N 117 14 W               | 2.0                       | 5                          | 3                         | 27.6       | 34.39      | 30                           | 1  | 1                             | 2                          | 2   |                                |
| 4                              | 89-08-03      | 1.0                   | 16 50 N 117 14 W               | 2.0                       | 5                          | 3                         | 27.6       | 34.39      | 100                          | 3  |                               |                            |   |                                |
| 4                              | 89-08-03      | 1.0                   | 16 50 N 117 14 W               | 2.0                       | 5                          | 3                         | 27.6       | 34.39      | 300                          | 1  |                               |                            |   |                                |
| 5                              | 89-08-04      | 1.0                   | 17 51 N 115 00 W               | 1.0                       | 1                          | 1                         | 28.0       | 34.47      | 20                           | 1  | 2                             | 1                          | 5   |                                |
| 5                              | 89-08-04      | 1.0                   | 17 51 N 115 00 W               | 1.0                       | 1                          | 1                         | 28.0       | 34.47      | 30                           | 1  |                               | 2                          | 1   |                                |
| 5                              | 89-08-04      | 1.0                   | 17 51 N 115 00 W               | 1.0                       | 1                          | 1                         | 28.0       | 34.47      | 100                          | 4  |                               | 3                          | 1   |                                |
| 5                              | 89-08-04      | 1.0                   | 17 51 N 115 00 W               | 1.0                       | 1                          | 1                         | 28.0       | 34.47      | 500                          | 1  | 2                             |                            |   |                                |
| 5                              | 89-08-04      | 1.0                   | 17 51 N 115 00 W               | 1.0                       | 1                          | 1                         | 28.0       | 34.47      | 500                          | 1  | 3                             |                            |   |                                |
| 6                              | 89-08-05      | 1.0                   | 18 59 N 112 04 W               | 1.0                       | 1                          | 1                         | 27.9       | 34.59      | 10                           | 1  | 1                             | 2                          | 1   |                                |
| 6                              | 89-08-05      | 1.0                   | 18 59 N 112 04 W               | 1.0                       | 1                          | 1                         | 27.9       | 34.59      | 30                           | 4  | 13                            |                            |   |                                |
| 6                              | 89-08-05      | 1.0                   | 18 59 N 112 04 W               | 1.0                       | 1                          | 1                         | 27.9       | 34.59      | 90                           | 4  | 4                             |                            |   |                                |
| 6                              | 89-08-05      | 1.0                   | 18 59 N 112 04 W               | 1.0                       | 1                          | 1                         | 27.9       | 34.59      | 200                          | 2  |                               |                            |   |                                |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 10                           | 2  | 2                             | 2                          | 4   | 2                              |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 20                           | 1  | 1                             |                            |   |                                |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 30                           | 2  | 1                             |                            |   |                                |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 100                          | 2  |                               |                            |   |                                |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 200                          | 4  | 1                             |                            |   |                                |
| 7                              | 89-08-06      | 1.0                   | 19 14 N 109 58 W               | 3.0                       | 2                          | 1                         | 25.4       | 34.07      | 300                          | 1  |                               |                            |   |                                |
|                                | 89-08-07      |                       | 19 11 N 109 36 W               |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 8                              | 89-08-07      | 1.0                   | 18 38 N 107 58 W               | 2.0                       | 2                          | 1                         | 27.2       | 33.94      | 10                           | 1  |                               | 1                          | 3   |                                |
| 8                              | 89-08-07      | 1.0                   | 18 38 N 107 58 W               | 2.0                       | 2                          | 1                         | 27.2       | 33.94      | 20                           | 1  | 2                             | 2                          | 2   |                                |
| 8                              | 89-08-07      | 1.0                   | 18 38 N 107 58 W               | 2.0                       | 2                          | 1                         | 27.2       | 33.94      | 30                           | 2  | 2                             |                            |   |                                |
| 8                              | 89-08-07      | 1.0                   | 18 38 N 107 58 W               | 2.0                       | 2                          | 1                         | 27.2       | 33.94      | 100                          | 2  |                               |                            |   |                                |
| 9                              | 89-08-08      | 1.0                   | 16 20 N 110 34 W               | 3.0                       | 2                          | 2                         | 28.9       | 34.13      | 10                           | 3  | 5                             | 1                          | 1   |                                |
| 9                              | 89-08-08      | 1.0                   | 16 20 N 110 34 W               | 3.0                       | 2                          | 2                         | 28.9       | 34.13      | 20                           | 2  | 2                             | 2                          | 2   |                                |
| 9                              | 89-08-08      | 1.0                   | 16 20 N 110 34 W               | 3.0                       | 2                          | 2                         | 28.9       | 34.13      | 30                           | 3  | 4                             |                            |   |                                |
| 9                              | 89-08-08      | 1.0                   | 16 20 N 110 34 W               | 3.0                       | 2                          | 2                         | 28.9       | 34.13      | 400                          | 1  |                               |                            |   |                                |
|                                | 89-08-10      |                       | 16 07 N 109 46 W               |                           |                            |                           |            |            | 20                           |  | 1                             |                            |   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 30                           | 1  | 1                             | 3                          | 3   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 80                           | 1  | 2                             |                            |   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 400                          | 2  |                               |                            |   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 500                          | 3  | 2                             |                            |   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 500                          | 2  | 2                             |                            |   |                                |
| 10                             | 89-08-11      | 1.0                   | 19 01 N 104 21 W               | 2.0                       | 2                          | 2                         | 29.6       | 33.87      | 500                          | 1  | 1                             |                            |   |                                |
| 11                             | 89-08-12      | 1.0                   | 16 50 N 106 38 W               | 0.0                       | 3                          | 2                         | 29.1       | 34.10      | 10                           | 1  | 1                             | 1                          | 5   |                                |
| 11                             | 89-08-12      | 1.0                   | 16 50 N 106 38 W               | 0.0                       | 3                          | 2                         | 29.1       | 34.10      | 20                           | 2  | 4                             | 3                          | 1   |                                |
| 11                             | 89-08-12      | 1.0                   | 16 50 N 106 38 W               | 0.0                       | 3                          | 2                         | 29.1       | 34.10      | 30                           | 1  | 2                             |                            |   |                                |
| 11                             | 89-08-12      | 1.0                   | 16 50 N 106 38 W               | 0.0                       | 3                          | 2                         | 29.1       | 34.10      | 300                          | 1  |                               |                            |   |                                |
| 12                             | 89-08-13      | 1.0                   | 14 37 N 109 10 W               | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 10                           | 4  | 7                             | 1                          | 2   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude |          | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|----------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 12                             | 89-08-13      | 1.0                   | 14 37 N                        | 109 10 W | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 20                           | 2  | 4                             | 2                          | 4   | 4                              |
| 12                             | 89-08-13      | 1.0                   | 14 37 N                        | 109 10 W | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 30                           | 1  | 2                             |                            |   |                                |
| 12                             | 89-08-13      | 1.0                   | 14 37 N                        | 109 10 W | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 200                          | 3  | 1                             |                            |   |                                |
| 12                             | 89-08-13      | 1.0                   | 14 37 N                        | 109 10 W | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 400                          | 2  |                               |                            |   |                                |
| 12                             | 89-08-13      | 1.0                   | 14 37 N                        | 109 10 W | 2.0                       | 3                          | 2                         | 28.5       | 34.17      | 500                          | 1  | 1                             |                            |   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 10                           | 1  |                               | 1                          | 2   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 20                           | 1  | 1                             | 2                          | 2   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 30                           | 1  | 1                             | 3                          | 1   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 300                          | 1  |                               |                            |   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 400                          | 1  |                               |                            |   |                                |
| 13                             | 89-08-14      | 1.0                   | 13 22 N                        | 112 04 W | 3.0                       | 4                          | 3                         | 28.4       | 33.82      | 500                          | 1  | 1                             |                            |   |                                |
| 14                             | 89-08-15      | 1.0                   | 12 46 N                        | 115 35 W | 4.0                       | 4                          | 2                         | 28.4       | 33.75      | 10                           | 2  | 2                             | 1                          | 4   |                                |
| 14                             | 89-08-15      | 1.0                   | 12 46 N                        | 115 35 W | 4.0                       | 4                          | 2                         | 28.4       | 33.75      | 20                           | 2  | 4                             |                            |   |                                |
| 14                             | 89-08-15      | 1.0                   | 12 46 N                        | 115 35 W | 4.0                       | 4                          | 2                         | 28.4       | 33.75      | 30                           | 1  | 2                             |                            |   |                                |
| 14                             | 89-08-15      | 1.0                   | 12 46 N                        | 115 35 W | 4.0                       | 4                          | 2                         | 28.4       | 33.75      | 100                          | 2  |                               |                            |   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 10                           | 4  | 10                            | 1                          | 4   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 20                           | 2  | 1                             | 2                          | 3   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 30                           | 2  | 2                             |                            |   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 100                          | 3  |                               |                            |   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 200                          | 4  | 2                             |                            |   |                                |
| 15                             | 89-08-16      | 1.0                   | 11 56 N                        | 119 14 W | 4.0                       | 5                          | 3                         | 27.9       | 33.33      | 500                          | 1  |                               |                            |   |                                |
| 16                             | 89-08-17      | 1.0                   | 9 40 N                         | 117 03 W | 6.0                       | 5                          | 3                         | 27.4       | 33.19      | 20                           | 1  | 2                             | 1                          | 5   |                                |
| 16                             | 89-08-17      | 1.0                   | 9 40 N                         | 117 03 W | 6.0                       | 5                          | 3                         | 27.4       | 33.19      | 100                          | 4  |                               | 2                          | 2   |                                |
| 16                             | 89-08-17      | 1.0                   | 9 40 N                         | 117 03 W | 6.0                       | 5                          | 3                         | 27.4       | 33.19      | 500                          | 2  |                               |                            |   |                                |
|                                | 89-08-18      |                       | 9 18 N                         | 117 00 W |                           |                            |                           |            |            | 20                           |  | 1                             |                            |   |                                |
| 17                             | 89-08-18      | 1.0                   | 8 03 N                         | 114 31 W | 4.0                       | 5                          | 3                         | 27.2       | 33.50      | 10                           | 1  | 2                             | 1                          | 5   |                                |
| 17                             | 89-08-18      | 1.0                   | 8 03 N                         | 114 31 W | 4.0                       | 5                          | 3                         | 27.2       | 33.50      | 20                           | 3  | 9                             | 2                          | 2   |                                |
| 17                             | 89-08-18      | 1.0                   | 8 03 N                         | 114 31 W | 4.0                       | 5                          | 3                         | 27.2       | 33.50      | 30                           | 1  |                               |                            |   |                                |
| 17                             | 89-08-18      | 1.0                   | 8 03 N                         | 114 31 W | 4.0                       | 5                          | 3                         | 27.2       | 33.50      | 100                          | 5  |                               |                            |   |                                |
| 18                             | 89-08-19      | 1.0                   | 7 55 N                         | 110 45 W | 5.0                       | 5                          | 3                         | 27.2       | 33.31      | 10                           | 2  | 3                             | 1                          | 4   |                                |
| 18                             | 89-08-19      | 1.0                   | 7 55 N                         | 110 45 W | 5.0                       | 5                          | 3                         | 27.2       | 33.31      | 20                           | 3  | 8                             |                            |   |                                |
| 18                             | 89-08-19      | 1.0                   | 7 55 N                         | 110 45 W | 5.0                       | 5                          | 3                         | 27.2       | 33.31      | 30                           | 2  | 4                             |                            |   |                                |
| 18                             | 89-08-19      | 1.0                   | 7 55 N                         | 110 45 W | 5.0                       | 5                          | 3                         | 27.2       | 33.31      | 100                          | 4  |                               |                            |   |                                |
|                                | 89-08-20      |                       | 8 08 N                         | 109 29 W |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 10                           | 4  | 6                             | 1                          | 4   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 20                           | 4  | 18                            | 2                          | 1   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 30                           | 3  | 6                             |                            |   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 100                          | 5  |                               |                            |   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 300                          | 1  |                               |                            |   |                                |
| 19                             | 89-08-20      | 1.0                   | 8 22 N                         | 107 36 W | 3.0                       | 5                          | 4                         | 27.2       | 32.42      | 400                          | 1  |                               |                            |   |                                |
| 20                             | 89-08-21      | 1.0                   | 9 52 N                         | 104 37 W | 3.0                       | 5                          | 2                         | 28.5       | 33.35      | 10                           | 4  | 6                             | 1                          | 4   |                                |
| 20                             | 89-08-21      | 1.0                   | 9 52 N                         | 104 37 W | 3.0                       | 5                          | 2                         | 28.5       | 33.35      | 20                           | 2  | 3                             | 2                          | 1   |                                |
| 20                             | 89-08-21      | 1.0                   | 9 52 N                         | 104 37 W | 3.0                       | 5                          | 2                         | 28.5       | 33.35      | 30                           | 3  | 5                             | 3                          | 1   |                                |
| 20                             | 89-08-21      | 1.0                   | 9 52 N                         | 104 37 W | 3.0                       | 5                          | 2                         | 28.5       | 33.35      | 100                          | 4  |                               |                            |   |                                |
| 21                             | 89-08-22      | 1.0                   | 11 34 N                        | 102 00 W | 1.0                       | 5                          | 2                         | 29.1       | 33.57      | 10                           | 6  | 12                            | 1                          | 4   |                                |
| 21                             | 89-08-22      | 1.0                   | 11 34 N                        | 102 00 W | 1.0                       | 5                          | 2                         | 29.1       | 33.57      | 20                           | 2  | 1                             | 2                          | 4   |                                |
| 21                             | 89-08-22      | 1.0                   | 11 34 N                        | 102 00 W | 1.0                       | 5                          | 2                         | 29.1       | 33.57      | 100                          | 4  |                               | 3                          | 2   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 21                             | 89-08-22      | 1.0                   | 11 34 N 102 00 W               | 1.0                       | 5                          | 2                         | 29.1       | 33.57      | 300                          | 1  |                               |                            |   |                                |
| 21                             | 89-08-22      | 1.0                   | 11 34 N 102 00 W               | 1.0                       | 5                          | 2                         | 29.1       | 33.57      | 400                          | 4  |                               |                            |   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 10                           | 6  | 11                            | 2                          | 4   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 20                           | 5  | 7                             | 3                          | 2   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 30                           | 5  | 19                            |                            |   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 100                          | 4  |                               |                            |   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 200                          | 5  | 1                             |                            |   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 300                          | 1  |                               |                            |   |                                |
| 22                             | 89-08-23      | 1.0                   | 12 03 N 99 34 W                | 0.0                       | 5                          | 2                         | 29.7       | 33.41      | 500                          | 1  |                               |                            |   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 10                           | 6  | 6                             | 1                          | 1   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 20                           | 6  | 15                            | 2                          | 4   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 30                           | 5  | 16                            | 3                          | 3   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 80                           | 1  |                               |                            |   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 100                          | 3  |                               |                            |   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 200                          | 4  | 30                            |                            |   |                                |
| 23                             | 89-08-24      | 1.0                   | 12 40 N 96 31 W                | 3.0                       | 5                          | 3                         | 30.0       | 33.79      | 500                          | 1  | 1                             |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 10                           | 6  | 14                            | 1                          | 1   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 20                           | 3  | 1                             | 2                          | 6   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 30                           | 4  | 13                            | 3                          | 1   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 80                           | 1  | 2                             |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 200                          | 8  |                               |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 500                          | 1  | 2                             |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 500                          | 1  | 1                             |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 500                          | 1  | 1                             |                            |   |                                |
| 24                             | 89-08-25      | 1.0                   | 13 21 N 93 25 W                | 0.0                       | 5                          | 3                         | 29.0       | 33.32      | 500                          | 1  | 1                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 10                           | 6  | 5                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 20                           | 1  | 1                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 30                           | 3  | 5                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 100                          | 4  |                               |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 200                          | 5  | 5                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 400                          | 4  |                               |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 500                          | 1  | 2                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 500                          | 6  | 3                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 500                          | 6  | 5                             |                            |   |                                |
| 25                             | 89-08-26      | 2.0                   | 13 32 N 90 51 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 500                          | 1  | 1                             |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 10                           | 8  |                               | 2                          | 5   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 20                           | 1  | 1                             | 3                          | 2   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 30                           | 1  | 2                             |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 90                           | 1  |                               |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 100                          | 2  |                               |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 200                          | 8  |                               |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 400                          | 8  |                               |                            |   |                                |
| 26                             | 89-08-27      | 1.0                   | 13 33 N 90 36 W                | 2.0                       | 5                          | 3                         | 28.7       | 32.28      | 500                          | 6  |                               |                            |   |                                |
| 27                             | 89-09-01      | 1.0                   | 13 55 N 90 47 W                | 0.0                       | 5                          | 3                         |            |            | 15                           | 4  | 12                            |                            |   |                                |
| 27                             | 89-09-01      | 1.0                   | 13 55 N 90 47 W                | 0.0                       | 5                          | 3                         |            |            | 30                           | 5  | 25                            |                            |   |                                |
| 27                             | 89-09-01      | 1.0                   | 13 55 N 90 47 W                | 0.0                       | 5                          | 3                         |            |            | 80                           | 3  |                               |                            |   |                                |
| 27                             | 89-09-01      | 1.0                   | 13 55 N 90 47 W                | 0.0                       | 5                          | 3                         |            |            | 500                          | 6  |                               |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude |          | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Concl. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|----------|---------------------------|----------------------------|----------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 10                           | 1  | 1                             | 2                          | 5   | 3                              |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 30                           | 1  | 2                             |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 90                           | 1  |                               |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 200                          | 3  | 1                             |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 200                          | 6  | 2                             |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 400                          | 3  |                               |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 500                          | 6  | 15                            |                            |   |                                |
| 28                             | 89-09-02      | 1.0                   | 13 37 N                        | 90 51 W  | 3.0                       | 5                          | 3                          | 28.8       | 32.80      | 500                          | 2  |                               |                            |   |                                |
| 29                             | 89-09-03      | 1.0                   | 13 54 N                        | 94 08 W  | 3.0                       | 1                          | 2                          | 29.3       | 33.64      | 10                           | 6  | 11                            | 1                          | 4   |                                |
| 29                             | 89-09-03      | 1.0                   | 13 54 N                        | 94 08 W  | 3.0                       | 1                          | 2                          | 29.3       | 33.64      | 20                           | 6  | 22                            | 2                          | 4   |                                |
| 29                             | 89-09-03      | 1.0                   | 13 54 N                        | 94 08 W  | 3.0                       | 1                          | 2                          | 29.3       | 33.64      | 30                           | 4  | 11                            | 3                          | 1   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 10                           | 2  | 1                             | 1                          | 4   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 20                           | 2  | 2                             | 2                          | 6   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 30                           | 3  | 7                             | 3                          | 3   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 80                           | 2  | 4                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 200                          | 1  | 1                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 400                          | 1  |                               |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 3  | 3                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 6  | 25                            |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 8  | 5                             |                            |   |                                |
| 30                             | 89-09-04      | 1.0                   | 14 04 N                        | 97 18 W  | 3.0                       | 5                          | 3                          | 29.4       | 33.74      | 500                          | 1  |                               |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 10                           | 3  | 6                             |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 20                           | 5  | 10                            |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 30                           | 2  |                               |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 200                          | 1  | 1                             |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 500                          | 3  | 4                             |                            |   |                                |
| 31                             | 89-09-05      | 1.0                   | 14 24 N                        | 100 29 W | 0.0                       | 1                          | 1                          | 28.9       | 33.44      | 500                          | 6  | 3                             |                            |   |                                |
| 32                             | 89-09-06      | 1.0                   | 14 42 N                        | 102 14 W | 1.0                       | 2                          | 2                          | 29.1       | 33.80      | 10                           | 4  | 4                             | 2                          | 4   |                                |
| 32                             | 89-09-06      | 1.0                   | 14 42 N                        | 102 14 W | 1.0                       | 2                          | 2                          | 29.1       | 33.80      | 20                           | 1  | 1                             | 3                          | 1   |                                |
| 32                             | 89-09-06      | 1.0                   | 14 42 N                        | 102 14 W | 1.0                       | 2                          | 2                          | 29.1       | 33.80      | 30                           | 1  |                               |                            |   |                                |
| 32                             | 89-09-06      | 1.0                   | 14 42 N                        | 102 14 W | 1.0                       | 2                          | 2                          | 29.1       | 33.80      | 200                          | 8  | 1                             |                            |   |                                |
| 32                             | 89-09-06      | 1.0                   | 14 42 N                        | 102 14 W | 1.0                       | 2                          | 2                          | 29.1       | 33.80      | 300                          | 1  |                               |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 10                           | 4  | 13                            | 1                          | 8   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 20                           | 3  | 6                             | 2                          | 8   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 30                           | 2  | 2                             | 3                          | 8   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 90                           | 1  | 1                             |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 100                          | 1  |                               |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 400                          | 1  |                               |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 500                          | 4  | 3                             |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 500                          | 1  | 1                             |                            |   |                                |
| 33                             | 89-09-07      | 1.0                   | 14 16 N                        | 100 08 W | 3.0                       | 5                          | 3                          | 29.1       | 33.48      | 15                           | 1  | 1                             |                            |   |                                |
| 34                             | 89-09-08      | 1.0                   | 14 17 N                        | 97 10 W  | 5.0                       | 2                          | 2                          | 29.4       | 33.70      | 10                           | 3  | 3                             | 1                          | 3   |                                |
| 34                             | 89-09-08      | 1.0                   | 14 17 N                        | 97 10 W  | 5.0                       | 2                          | 2                          | 29.4       | 33.70      | 30                           | 1  | 2                             | 2                          | 5   |                                |
| 34                             | 89-09-08      | 1.0                   | 14 17 N                        | 97 10 W  | 5.0                       | 2                          | 2                          | 29.4       | 33.70      | 80                           | 1  | 2                             |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 34                             | 89-09-08      | 1.0                   | 14 17 N 97 10 W                | 5.0                       | 2                          | 2                         | 29.4       | 33.70      | 200                          | 2  | 2                             |                            |   |                                |
| 34                             | 89-09-08      | 1.0                   | 14 17 N 97 10 W                | 5.0                       | 2                          | 2                         | 29.4       | 33.70      | 400                          | 1  |                               |                            |   |                                |
| 34                             | 89-09-08      | 1.0                   | 14 17 N 97 10 W                | 5.0                       | 2                          | 2                         | 29.4       | 33.70      | 500                          | 4  | 3                             |                            |   |                                |
|                                | 89-09-09      |                       | 15 32 N 97 06 W                |                           |                            |                           |            |            | 15                           |  | 1                             |                            |   |                                |
|                                | 89-09-09      |                       | 15 32 N 97 06 W                |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
|                                | 89-09-09      |                       | 15 32 N 97 06 W                |                           |                            |                           |            |            | 200                          |  | 4                             |                            |   |                                |
|                                | 89-09-09      |                       | 15 32 N 97 06 W                |                           |                            |                           |            |            | 500                          |  | 3                             |                            |   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 10                           | 6  | 17                            | 1                          | 5   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 20                           | 1  | 2                             | 2                          | 6   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 30                           | 1  | 1                             | 3                          | 4   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 400                          | 1  |                               |                            |   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 500                          | 2  |                               |                            |   |                                |
| 35                             | 89-09-09      | 1.0                   | 15 28 N 98 48 W                | 4.0                       | 2                          | 2                         | 28.8       | 33.52      | 500                          | 3  |                               |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 10                           | 6  | 5                             | 1                          | 4   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 30                           | 3  | 6                             | 2                          | 5   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 80                           | 2  | 3                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 90                           | 1  | 1                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 400                          | 1  |                               |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 500                          | 1  | 1                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 500                          | 1  | 1                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 500                          | 3  | 8                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 500                          | 1  | 1                             |                            |   |                                |
| 36                             | 89-09-10      | 1.0                   | 16 36 N 99 58 W                | 4.0                       | 5                          | 3                         | 29.6       | 33.50      | 500                          | 1  | 1                             |                            |   |                                |
| 37                             | 89-09-10      | 1.0                   | 16 38 N 99 54 W                | 4.0                       | 5                          | 4                         | 29.5       | 33.47      | 10                           | 3  |                               | 1                          | 3   |                                |
| 37                             | 89-09-10      | 1.0                   | 16 38 N 99 54 W                | 4.0                       | 5                          | 4                         | 29.5       | 33.47      | 30                           | 2  | 3                             | 2                          | 2   |                                |
| 37                             | 89-09-10      | 1.0                   | 16 38 N 99 54 W                | 4.0                       | 5                          | 4                         | 29.5       | 33.47      | 90                           | 2  |                               | 3                          | 1   |                                |
| 37                             | 89-09-10      | 1.0                   | 16 38 N 99 54 W                | 4.0                       | 5                          | 4                         | 29.5       | 33.47      | 400                          | 2  |                               |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 10                           | 4  |                               |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 20                           | 1  | 1                             |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 30                           | 2  | 3                             |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 90                           | 2  |                               |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 15                           | 1  |                               |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 400                          | 1  |                               |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 500                          | 2  | 1                             |                            |   |                                |
| 38                             | 89-09-10      | 1.0                   | 16 42 N 99 52 W                | 3.0                       | 5                          | 3                         | 29.3       | 33.09      | 500                          | 6  |                               |                            |   |                                |
| 39                             | 89-09-14      | 1.0                   | 14 54 N 101 26 W               | 0.0                       | 4                          | 1                         | 28.9       | 33.52      | 10                           | 1  |                               | 1                          | 1   |                                |
| 39                             | 89-09-14      | 1.0                   | 14 54 N 101 26 W               | 0.0                       | 4                          | 1                         | 28.9       | 33.52      | 20                           | 2  | 2                             | 2                          | 4   |                                |
| 39                             | 89-09-14      | 1.0                   | 14 54 N 101 26 W               | 0.0                       | 4                          | 1                         | 28.9       | 33.52      | 30                           | 1  | 1                             | 3                          | 2   |                                |
| 39                             | 89-09-14      | 1.0                   | 14 54 N 101 26 W               | 0.0                       | 4                          | 1                         | 28.9       | 33.52      | 500                          | 1  | 2                             |                            |   |                                |
| 40                             | 89-09-15      | 1.0                   | 12 06 N 103 18 W               | 0.0                       | 4                          | 2                         | 28.7       | 33.56      | 10                           | 3  | 2                             | 1                          | 1   |                                |
| 40                             | 89-09-15      | 1.0                   | 12 06 N 103 18 W               | 0.0                       | 4                          | 2                         | 28.7       | 33.56      | 20                           | 1  |                               | 2                          | 4   |                                |
| 40                             | 89-09-15      | 1.0                   | 12 06 N 103 18 W               | 0.0                       | 4                          | 2                         | 28.7       | 33.56      | 30                           | 1  | 1                             |                            |   |                                |
| 40                             | 89-09-15      | 1.0                   | 12 06 N 103 18 W               | 0.0                       | 4                          | 2                         | 28.7       | 33.56      | 400                          | 1  | 2                             |                            |   |                                |
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 10                           | 2  | 2                             | 1                          | 5   |                                |
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 20                           | 2  | 1                             |                            |   |                                |
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 30                           | 1  | 1                             |                            |   |                                |
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 100                          | 4  |                               |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 300                          | 1  |                               |                            |   |                                |
| 41                             | 89-09-17      | 1.0                   | 6 48 N 107 00 W                | 5.0                       | 5                          | 3                         | 27.1       | 33.02      | 400                          | 2  |                               |                            |   |                                |
| 42                             | 89-09-18      | 1.0                   | 5 44 N 109 51 W                | 4.0                       | 5                          | 2                         | 26.6       | 33.64      | 10                           | 1  | 1                             | 1                          | 3   |                                |
| 42                             | 89-09-18      | 1.0                   | 5 44 N 109 51 W                | 4.0                       | 5                          | 2                         | 26.6       | 33.64      | 20                           | 3  | 9                             | 2                          | 4   |                                |
| 42                             | 89-09-18      | 1.0                   | 5 44 N 109 51 W                | 4.0                       | 5                          | 2                         | 26.6       | 33.64      | 30                           | 3  | 5                             |                            |   |                                |
| 42                             | 89-09-18      | 1.0                   | 5 44 N 109 51 W                | 4.0                       | 5                          | 2                         | 26.6       | 33.64      | 100                          | 4  |                               |                            |   |                                |
| 42                             | 89-09-18      | 1.0                   | 5 44 N 109 51 W                | 4.0                       | 5                          | 2                         | 26.6       | 33.64      | 500                          | 1  |                               |                            |   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 10                           | 1  |                               | 1                          | 3   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 20                           | 4  | 10                            |                            |   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 30                           | 3  | 7                             |                            |   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 100                          | 4  |                               |                            |   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 300                          | 1  |                               |                            |   |                                |
| 43                             | 89-09-19      | 1.0                   | 4 57 N 108 20 W                | 4.0                       | 5                          | 2                         | 26.8       | 33.28      | 400                          | 3  |                               |                            |   |                                |
| 44                             | 89-09-20      | 1.0                   | 4 25 N 105 00 W                | 4.0                       | 5                          | 2                         | 26.3       | 33.34      | 20                           | 2  | 3                             | 1                          | 4   |                                |
| 44                             | 89-09-20      | 1.0                   | 4 25 N 105 00 W                | 4.0                       | 5                          | 2                         | 26.3       | 33.34      | 30                           | 2  | 3                             |                            |   |                                |
| 44                             | 89-09-20      | 1.0                   | 4 25 N 105 00 W                | 4.0                       | 5                          | 2                         | 26.3       | 33.34      | 100                          | 4  |                               |                            |   |                                |
| 44                             | 89-09-20      | 1.0                   | 4 25 N 105 00 W                | 4.0                       | 5                          | 2                         | 26.3       | 33.34      | 300                          | 1  |                               |                            |   |                                |
| 44                             | 89-09-20      | 1.0                   | 4 25 N 105 00 W                | 4.0                       | 5                          | 2                         | 26.3       | 33.34      | 400                          | 1  |                               |                            |   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 10                           | 4  | 7                             | 1                          | 4   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 20                           | 5  | 12                            |                            |   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 30                           | 4  | 10                            |                            |   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 100                          | 5  |                               |                            |   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 300                          | 1  |                               |                            |   |                                |
| 45                             | 89-09-21      | 1.0                   | 3 37 N 101 48 W                | 4.0                       | 5                          | 2                         | 25.7       | 34.27      | 400                          | 3  |                               |                            |   |                                |
| 46                             | 89-09-22      | 1.0                   | 2 55 N 98 36 W                 | 5.0                       | 5                          | 3                         | 25.7       | 34.11      | 10                           | 4  | 9                             | 1                          | 3   |                                |
| 46                             | 89-09-22      | 1.0                   | 2 55 N 98 36 W                 | 5.0                       | 5                          | 3                         | 25.7       | 34.11      | 20                           | 2  | 2                             | 2                          | 3   |                                |
| 46                             | 89-09-22      | 1.0                   | 2 55 N 98 36 W                 | 5.0                       | 5                          | 3                         | 25.7       | 34.11      | 30                           | 3  | 6                             |                            |   |                                |
| 46                             | 89-09-22      | 1.0                   | 2 55 N 98 36 W                 | 5.0                       | 5                          | 3                         | 25.7       | 34.11      | 300                          | 1  |                               |                            |   |                                |
| 46                             | 89-09-22      | 1.0                   | 2 55 N 98 36 W                 | 5.0                       | 5                          | 3                         | 25.7       | 34.11      | 400                          | 1  |                               |                            |   |                                |
| 47                             | 89-09-23      | 1.0                   | 2 36 N 95 33 W                 | 4.0                       | 5                          | 3                         | 25.8       | 33.75      | 10                           | 5  | 11                            | 1                          | 3   |                                |
| 47                             | 89-09-23      | 1.0                   | 2 36 N 95 33 W                 | 4.0                       | 5                          | 3                         | 25.8       | 33.75      | 20                           | 3  | 7                             | 2                          | 3   |                                |
| 47                             | 89-09-23      | 1.0                   | 2 36 N 95 33 W                 | 4.0                       | 5                          | 3                         | 25.8       | 33.75      | 30                           | 1  | 1                             |                            |   |                                |
| 47                             | 89-09-23      | 1.0                   | 2 36 N 95 33 W                 | 4.0                       | 5                          | 3                         | 25.8       | 33.75      | 100                          | 6  |                               |                            |   |                                |
| 47                             | 89-09-23      | 1.0                   | 2 36 N 95 33 W                 | 4.0                       | 5                          | 3                         | 25.8       | 33.75      | 300                          | 1  |                               |                            |   |                                |
| 48                             | 89-09-24      | 1.0                   | 1 49 N 92 31 W                 | 3.0                       | 5                          | 3                         | 25.4       | 33.65      | 10                           | 5  | 12                            | 1                          | 4   | 1                              |
| 48                             | 89-09-24      | 1.0                   | 1 49 N 92 31 W                 | 3.0                       | 5                          | 3                         | 25.4       | 33.65      | 100                          | 5  |                               | 2                          | 3   |                                |
| 48                             | 89-09-24      | 1.0                   | 1 49 N 92 31 W                 | 3.0                       | 5                          | 3                         | 25.4       | 33.65      | 300                          | 1  |                               |                            |   |                                |
| 48                             | 89-09-24      | 1.0                   | 1 49 N 92 31 W                 | 3.0                       | 5                          | 3                         | 25.4       | 33.65      | 400                          | 1  |                               |                            |   |                                |
| 49                             | 89-09-25      | 1.0                   | 1 18 N 91 08 W                 | 2.0                       | 5                          | 3                         | 23.6       | 33.88      | 30                           | 1  | 1                             | 1                          | 4   |                                |
| 49                             | 89-09-25      | 1.0                   | 1 18 N 91 08 W                 | 2.0                       | 5                          | 3                         | 23.6       | 33.88      | 100                          | 4  |                               | 2                          | 3   |                                |
| 49                             | 89-09-25      | 1.0                   | 1 18 N 91 08 W                 | 2.0                       | 5                          | 3                         | 23.6       | 33.88      |                              |  |                               | 3                          | 1   |                                |
| 50                             | 89-09-26      | 1.0                   | 0 38 N 88 10 W                 | 4.0                       | 5                          | 3                         | 24.2       | 33.69      | 10                           | 3  | 3                             | 1                          | 4   |                                |
| 50                             | 89-09-26      | 1.0                   | 0 38 N 88 10 W                 | 4.0                       | 5                          | 3                         | 24.2       | 33.69      | 20                           | 1  | 1                             | 2                          | 2   |                                |
| 50                             | 89-09-26      | 1.0                   | 0 38 N 88 10 W                 | 4.0                       | 5                          | 3                         | 24.2       | 33.69      | 100                          | 4  |                               | 3                          | 1   | 1                              |
| 50                             | 89-09-26      | 1.0                   | 0 38 N 88 10 W                 | 4.0                       | 5                          | 3                         | 24.2       | 33.69      | 300                          | 1  |                               |                            |   |                                |
| 51                             | 89-09-27      | 1.0                   | 0 05 S 85 18 W                 | 4.0                       | 5                          | 3                         | 20.9       | 34.07      | 30                           | 1  |                               | 1                          | 3   |                                |
| 51                             | 89-09-27      | 1.0                   | 0 05 S 85 18 W                 | 4.0                       | 5                          | 3                         | 20.9       | 34.07      | 100                          | 4  |                               | 2                          | 4   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 51                             | 89-09-27      | 1.0                   | 0 05 S 85 18 W                 | 4.0                       | 5                          | 3                         | 20.9       | 34.07      | 300                          | 1  |                               | 3                          | 1   | 1                              |
| 51                             | 89-09-27      | 1.0                   | 0 05 S 85 18 W                 | 4.0                       | 5                          | 3                         | 20.9       | 34.07      | 400                          | 1  |                               |                            |   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 20                           | 1  | 1                             | 1                          | 6   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 30                           | 1  | 1                             | 2                          | 3   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 100                          | 5  |                               |                            |   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 300                          | 1  |                               |                            |   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 400                          | 1  |                               |                            |   |                                |
| 52                             | 89-09-28      | 1.0                   | 0 50 S 82 50 W                 | 4.0                       | 5                          | 3                         | 22.6       | 33.51      | 500                          | 1  | 1                             |                            |   |                                |
|                                | 89-09-29      |                       | 1 07 S 81 54 W                 |                           |                            |                           |            |            | 10                           |  | 2                             |                            |   |                                |
|                                | 89-09-29      |                       | 1 07 S 81 54 W                 |                           |                            |                           |            |            | 20                           |  | 4                             |                            |   |                                |
|                                | 89-09-29      |                       | 1 07 S 81 54 W                 |                           |                            |                           |            |            | 30                           |  | 4                             |                            |   |                                |
| 53                             | 89-09-29      | 1.0                   | 1 22 S 81 41 W                 | 0.0                       | 5                          | 3                         | 24.5       | 32.89      | 10                           | 2  | 1                             | 1                          | 6   |                                |
| 53                             | 89-09-29      | 1.0                   | 1 22 S 81 41 W                 | 0.0                       | 5                          | 3                         | 24.5       | 32.89      | 30                           | 2  | 3                             | 2                          | 2   |                                |
| 53                             | 89-09-29      | 1.0                   | 1 22 S 81 41 W                 | 0.0                       | 5                          | 3                         | 24.5       | 32.89      | 90                           | 1  | 1                             | 3                          | 2   | 2                              |
| 53                             | 89-09-29      | 1.0                   | 1 22 S 81 41 W                 | 0.0                       | 5                          | 3                         | 24.5       | 32.89      | 100                          | 4  |                               |                            |   |                                |
| 54                             | 89-09-29      | 1.0                   | 1 39 S 81 07 W                 | 2.0                       | 5                          | 3                         | 24.2       | 32.95      | 15                           | 7  | 23                            | 1                          | 3   |                                |
| 54                             | 89-09-29      | 1.0                   | 1 39 S 81 07 W                 | 2.0                       | 5                          | 3                         | 24.2       | 32.95      | 400                          | 1  |                               | 3                          | 1   |                                |
|                                | 89-09-30      |                       | 1 57 S 81 07 W                 |                           |                            |                           |            |            |                              |  | 2                             |                            |   | 1                              |
| 55                             | 89-10-06      | 1.0                   | 1 19 S 84 40 W                 | 3.0                       | 5                          | 3                         | 24.0       | 33.58      | 20                           | 2  | 3                             | 1                          | 4   |                                |
| 55                             | 89-10-06      | 1.0                   | 1 19 S 84 40 W                 | 3.0                       | 5                          | 3                         | 24.0       | 33.58      | 100                          | 5  |                               | 3                          | 1   |                                |
| 55                             | 89-10-06      | 1.0                   | 1 19 S 84 40 W                 | 3.0                       | 5                          | 3                         | 24.0       | 33.58      | 500                          | 1  |                               |                            |   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 10                           | 1  | 1                             | 1                          | 6   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 20                           | 5  | 11                            | 2                          | 5   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 30                           | 4  | 13                            |                            |   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 100                          | 6  |                               |                            |   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 300                          | 1  |                               |                            |   |                                |
| 56                             | 89-10-07      | 1.0                   | 1 03 N 84 03 W                 | 3.0                       | 5                          | 3                         | 25.7       | 32.98      | 500                          | 1  |                               |                            |   |                                |
|                                | 89-10-08      |                       | 1 16 N 83 50 W                 |                           |                            |                           |            |            | 30                           |  | 2                             |                            |   |                                |
| 57                             | 89-10-08      | 1.0                   | 3 48 N 81 49 W                 | 3.0                       | 5                          | 3                         | 26.5       | 32.95      | 20                           | 2  | 2                             | 1                          | 6   |                                |
| 57                             | 89-10-08      | 1.0                   | 3 48 N 81 49 W                 | 3.0                       | 5                          | 3                         | 26.5       | 32.95      | 30                           | 2  | 4                             | 2                          | 4   |                                |
| 57                             | 89-10-08      | 1.0                   | 3 48 N 81 49 W                 | 3.0                       | 5                          | 3                         | 26.5       | 32.95      | 100                          | 6  | 3                             | 3                          | 2   |                                |
| 57                             | 89-10-08      | 1.0                   | 3 48 N 81 49 W                 | 3.0                       | 5                          | 3                         | 26.5       | 32.95      | 300                          | 1  |                               |                            |   |                                |
| 57                             | 89-10-08      | 1.0                   | 3 48 N 81 49 W                 | 3.0                       | 5                          | 3                         | 26.5       | 32.95      | 500                          | 1  | 2                             |                            |   |                                |
| 58                             | 89-10-09      | 1.0                   | 4 08 N 82 40 W                 | 4.0                       | 2                          | 2                         | 26.4       | 32.84      | 100                          | 6  |                               | 1                          | 6   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 10                           | 1  | 1                             | 1                          | 5   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 20                           | 1  | 1                             |                            |   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 30                           | 2  | 2                             |                            |   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 100                          | 5  |                               |                            |   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 125                          | 1  | 1                             |                            |   |                                |
| 59                             | 89-10-10      | 1.0                   | 2 39 N 85 26 W                 | 4.0                       | 5                          | 3                         | 26.1       | 33.32      | 300                          | 1  |                               |                            |   |                                |
| 60                             | 89-10-11      | 1.0                   | 2 25 N 87 14 W                 | 4.0                       | 5                          | 3                         | 26.0       | 33.51      | 10                           | 1  | 1                             | 1                          | 4   |                                |
| 60                             | 89-10-11      | 1.0                   | 2 25 N 87 14 W                 | 4.0                       | 5                          | 3                         | 26.0       | 33.51      | 20                           | 1  | 2                             | 2                          | 3   |                                |
| 60                             | 89-10-11      | 1.0                   | 2 25 N 87 14 W                 | 4.0                       | 5                          | 3                         | 26.0       | 33.51      | 30                           | 1  | 1                             |                            |   |                                |
| 60                             | 89-10-11      | 1.0                   | 2 25 N 87 14 W                 | 4.0                       | 5                          | 3                         | 26.0       | 33.51      | 100                          | 5  |                               |                            |   |                                |
| 61                             | 89-10-12      | 1.0                   | 5 38 N 85 34 W                 | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 20                           | 3  | 10                            | 1                          | 2   |                                |
| 61                             | 89-10-12      | 1.0                   | 5 38 N 85 34 W                 | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 100                          | 5  |                               | 2                          | 2   |                                |
| 61                             | 89-10-12      | 1.0                   | 5 38 N 85 34 W                 | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 300                          | 1  |                               | 3                          | 1   |                                |



Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude |         | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 61                             | 89-10-12      | 1.0                   | 5 38 N                         | 85 34 W | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 400                          | 2  |                               |                            |   |                                |
| 61                             | 89-10-12      | 1.0                   | 5 38 N                         | 85 34 W | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 500                          | 1  | 2                             |                            |   |                                |
| 61                             | 89-10-12      | 1.0                   | 5 38 N                         | 85 34 W | 4.0                       | 4                          | 2                         | 26.4       | 32.90      | 500                          | 1  | 2                             |                            |   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 10                           | 4  | 7                             | 1                          | 3   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 20                           | 3  | 4                             | 2                          | 3   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 30                           | 2  | 2                             | 3                          | 1   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 100                          | 4  |                               |                            |   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 300                          | 1  |                               |                            |   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 400                          | 2  |                               |                            |   |                                |
| 62                             | 89-10-13      | 1.0                   | 6 42 N                         | 85 25 W | 3.0                       | 4                          | 2                         | 26.8       | 32.69      | 500                          | 1  | 1                             |                            |   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 10                           | 1  | 1                             | 1                          | 5   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 20                           | 2  | 5                             | 2                          | 1   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 30                           | 1  | 2                             |                            |   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 100                          | 5  |                               |                            |   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 300                          | 1  |                               |                            |   |                                |
| 63                             | 89-10-15      | 1.0                   | 4 34 N                         | 89 57 W | 4.0                       | 5                          | 2                         | 26.5       | 33.24      | 400                          | 1  | 1                             |                            |   |                                |
| 64                             | 89-10-16      | 1.0                   | 6 32 N                         | 90 03 W | 4.0                       | 5                          | 3                         | 26.5       | 33.21      | 10                           | 6  | 10                            | 1                          | 3   |                                |
| 64                             | 89-10-16      | 1.0                   | 6 32 N                         | 90 03 W | 4.0                       | 5                          | 3                         | 26.5       | 33.21      | 20                           | 5  | 9                             | 2                          | 2   |                                |
| 64                             | 89-10-16      | 1.0                   | 6 32 N                         | 90 03 W | 4.0                       | 5                          | 3                         | 26.5       | 33.21      | 30                           | 4  | 7                             |                            |   |                                |
| 64                             | 89-10-16      | 1.0                   | 6 32 N                         | 90 03 W | 4.0                       | 5                          | 3                         | 26.5       | 33.21      | 100                          | 2  |                               |                            |   |                                |
| 64                             | 89-10-16      | 1.0                   | 6 32 N                         | 90 03 W | 4.0                       | 5                          | 3                         | 26.5       | 33.21      | 400                          | 1  | 1                             |                            |   |                                |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 10                           | 6  | 4                             | 1                          | 4   |                                |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 20                           | 4  | 8                             | 2                          | 5   |                                |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 30                           | 2  |                               | 3                          | 1   | 1                              |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 100                          | 3  |                               |                            |   |                                |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 400                          | 2  |                               |                            |   |                                |
| 65                             | 89-10-17      | 1.0                   | 9 59 N                         | 89 04 W | 1.0                       | 5                          | 3                         | 27.6       | 32.88      | 500                          | 1  | 2                             |                            |   |                                |
|                                | 89-10-17      |                       | 9 58 N                         | 89 03 W |                           |                            |                           |            |            | 10                           |  | 9                             |                            |   |                                |
|                                | 89-10-17      |                       | 9 58 N                         | 89 03 W |                           |                            |                           |            |            | 20                           |  | 6                             |                            |   |                                |
|                                | 89-10-17      |                       | 9 58 N                         | 89 03 W |                           |                            |                           |            |            | 30                           |  | 2                             |                            |   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 10                           | 5  | 6                             | 1                          | 5   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 20                           | 4  | 5                             | 2                          | 4   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 30                           | 2  | 2                             | 3                          | 1   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 100                          | 3  |                               |                            |   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 400                          | 2  |                               |                            |   |                                |
| 66                             | 89-10-18      | 1.0                   | 10 00 N                        | 90 14 W | 0.0                       | 5                          | 2                         | 27.8       | 33.46      | 500                          | 1  |                               |                            |   |                                |
| 67                             | 89-10-19      | 1.0                   | 7 25 N                         | 92 19 W | 2.0                       | 5                          | 2                         | 26.8       | 32.74      | 10                           | 4  | 5                             | 1                          | 6   |                                |
| 67                             | 89-10-19      | 1.0                   | 7 25 N                         | 92 19 W | 2.0                       | 5                          | 2                         | 26.8       | 32.74      | 20                           | 4  | 8                             | 2                          | 2   |                                |
| 67                             | 89-10-19      | 1.0                   | 7 25 N                         | 92 19 W | 2.0                       | 5                          | 2                         | 26.8       | 32.74      | 30                           | 3  | 6                             |                            |   |                                |
| 67                             | 89-10-19      | 1.0                   | 7 25 N                         | 92 19 W | 2.0                       | 5                          | 2                         | 26.8       | 32.74      | 100                          | 3  |                               |                            |   |                                |
| 67                             | 89-10-19      | 1.0                   | 7 25 N                         | 92 19 W | 2.0                       | 5                          | 2                         | 26.8       | 32.74      | 400                          | 1  |                               |                            |   |                                |
|                                | 89-10-20      |                       | 7 05 N                         | 92 37 W |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 68                             | 89-10-20      | 1.0                   | 4 37 N                         | 94 52 W | 5.0                       | 5                          | 4                         | 26.4       | 33.36      | 10                           | 4  | 5                             | 1                          | 4   |                                |
| 68                             | 89-10-20      | 1.0                   | 4 37 N                         | 94 52 W | 5.0                       | 5                          | 4                         | 26.4       | 33.36      | 20                           | 3  | 5                             |                            |   |                                |
| 68                             | 89-10-20      | 1.0                   | 4 37 N                         | 94 52 W | 5.0                       | 5                          | 4                         | 26.4       | 33.36      | 30                           | 3  | 4                             |                            |   |                                |
| 68                             | 89-10-20      | 1.0                   | 4 37 N                         | 94 52 W | 5.0                       | 5                          | 4                         | 26.4       | 33.36      | 100                          | 5  |                               |                            |   |                                |
| 68                             | 89-10-20      | 1.0                   | 4 37 N                         | 94 52 W | 5.0                       | 5                          | 4                         | 26.4       | 33.36      | 300                          | 1  |                               |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Concl. (C) | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|--------------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
|                                | 89-10-21      |                       | 5 04 N 94 59 W                 |                           |                            |                                |            |            | 30                           |  | 1                             |                            |   |                                |
|                                | 89-10-22      |                       | 10 05 N 98 16 W                |                           |                            |                                |            |            | 20                           |  | 1                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 10                           | 5  | 10                            | 1                          | 1   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 30                           | 5  | 20                            | 2                          | 5   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 80                           | 3  | 4                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 200                          | 1  | 1                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 400                          | 4  |                               |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 5  | 7                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 1  | 1                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 2  | 4                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 4  | 6                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 1  | 2                             |                            |   |                                |
| 69                             | 89-10-24      | 1.0                   | 17 55 N 103 28 W               | 3.0                       | 5                          | 1                              | 29.9       |            | 500                          | 1  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 10                           | 4  | 6                             | 1                          | 3   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 20                           | 1  | 1                             | 2                          | 3   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 30                           | 4  | 11                            |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 80                           | 1  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 90                           | 1  | 2                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 90                           | 1  |                               |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 100                          | 2  | 5                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 200                          | 2  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 400                          | 2  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 4  | 3                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 5  | 10                            |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 1  | 2                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 70                             | 89-11-01      | 1.0                   | 18 16 N 103 51 W               | 3.0                       | 1                          | 1                              | 29.6       | 33.74      | 500                          | 1  | 1                             |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 10                           | 3  | 5                             | 1                          | 4   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 20                           | 1  | 1                             | 2                          | 4   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 30                           | 2  | 1                             | 3                          | 2   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 90                           | 2  |                               |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 100                          | 3  |                               |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 200                          | 1  | 1                             |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 500                          | 1  | 2                             |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 500                          | 1  | 1                             |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 500                          | 1  | 2                             |                            |   |                                |
| 71                             | 89-11-02      | 1.0                   | 16 06 N 104 12 W               | 3.0                       | 1                          | 2                              | 28.9       | 33.62      | 500                          | 1  |                               |                            |   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 10                           | 4  | 11                            | 2                          | 3   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 20                           | 2  | 2                             | 3                          | 2   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 30                           | 1  | 1                             |                            |   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 100                          | 2  |                               |                            |   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 200                          | 1  | 1                             |                            |   |                                |
| 72                             | 89-11-03      | 1.0                   | 14 34 N 106 46 W               | 0.0                       | 1                          | 1                              | 28.7       | 33.30      | 400                          | 2  | 1                             |                            |   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N 108 42 W               | 3.0                       | 2                          | 1                              | 28.2       | 33.20      | 10                           | 3  | 6                             | 1                          | 1   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N 108 42 W               | 3.0                       | 2                          | 1                              | 28.2       | 33.20      | 20                           | 1  | 2                             | 2                          | 4   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N 108 42 W               | 3.0                       | 2                          | 1                              | 28.2       | 33.20      | 30                           | 1  | 1                             | 3                          | 2   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude |          | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|----------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 73                             | 89-11-04      | 1.0                   | 12 34 N                        | 108 42 W | 3.0                       | 2                          | 1                         | 28.2       | 33.20      | 100                          | 2  |                               |                            |   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N                        | 108 42 W | 3.0                       | 2                          | 1                         | 28.2       | 33.20      | 200                          | 2  | 1                             |                            |   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N                        | 108 42 W | 3.0                       | 2                          | 1                         | 28.2       | 33.20      | 400                          | 3  |                               |                            |   |                                |
| 73                             | 89-11-04      | 1.0                   | 12 34 N                        | 108 42 W | 3.0                       | 2                          | 1                         | 28.2       | 33.20      | 500                          | 1  |                               |                            |   |                                |
| 74                             | 89-11-05      | 1.0                   | 13 41 N                        | 105 47 W | 3.0                       | 2                          | 1                         | 29.1       | 33.96      | 10                           | 5  | 14                            | 2                          | 3   |                                |
| 74                             | 89-11-05      | 1.0                   | 13 41 N                        | 105 47 W | 3.0                       | 2                          | 1                         | 29.1       | 33.96      | 20                           | 2  | 1                             |                            |   |                                |
| 74                             | 89-11-05      | 1.0                   | 13 41 N                        | 105 47 W | 3.0                       | 2                          | 1                         | 29.1       | 33.96      | 30                           | 3  | 4                             |                            |   |                                |
| 74                             | 89-11-05      | 1.0                   | 13 41 N                        | 105 47 W | 3.0                       | 2                          | 1                         | 29.1       | 33.96      | 100                          | 2  |                               |                            |   |                                |
| 74                             | 89-11-05      | 1.0                   | 13 41 N                        | 105 47 W | 3.0                       | 2                          | 1                         | 29.1       | 33.96      | 400                          | 1  |                               |                            |   |                                |
| 75                             | 89-11-06      | 1.0                   | 12 09 N                        | 105 38 W | 4.0                       | 2                          | 2                         | 28.6       | 33.21      | 10                           | 2  | 3                             | 2                          | 4   |                                |
| 75                             | 89-11-06      | 1.0                   | 12 09 N                        | 105 38 W | 4.0                       | 2                          | 2                         | 28.6       | 33.21      | 20                           | 3  | 6                             |                            |   |                                |
| 75                             | 89-11-06      | 1.0                   | 12 09 N                        | 105 38 W | 4.0                       | 2                          | 2                         | 28.6       | 33.21      | 30                           | 4  | 8                             |                            |   |                                |
| 75                             | 89-11-06      | 1.0                   | 12 09 N                        | 105 38 W | 4.0                       | 2                          | 2                         | 28.6       | 33.21      | 90                           | 1  | 1                             |                            |   |                                |
| 75                             | 89-11-06      | 1.0                   | 12 09 N                        | 105 38 W | 4.0                       | 2                          | 2                         | 28.6       | 33.21      | 300                          | 1  |                               |                            |   |                                |
|                                | 89-11-07      |                       | 9 18 N                         | 106 13 W |                           |                            |                           |            |            | 20                           |  | 1                             |                            |   |                                |
|                                | 89-11-07      |                       | 9 18 N                         | 106 13 W |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 10                           | 4  | 10                            | 1                          | 1   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 20                           | 2  | 1                             | 2                          | 4   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 30                           | 2  | 2                             | 3                          | 3   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 100                          | 4  |                               |                            |   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 400                          | 2  |                               |                            |   |                                |
| 76                             | 89-11-07      | 1.0                   | 9 04 N                         | 106 11 W | 2.0                       | 2                          | 1                         | 27.9       | 33.21      | 500                          | 1  |                               |                            |   |                                |
| 77                             | 89-11-08      | 1.0                   | 6 17 N                         | 105 35 W | 4.0                       | 3                          | 2                         | 26.9       | 33.12      | 20                           | 1  | 1                             | 1                          | 2   |                                |
| 77                             | 89-11-08      | 1.0                   | 6 17 N                         | 105 35 W | 4.0                       | 3                          | 2                         | 26.9       | 33.12      | 30                           | 2  | 1                             | 2                          | 5   | 2                              |
| 77                             | 89-11-08      | 1.0                   | 6 17 N                         | 105 35 W | 4.0                       | 3                          | 2                         | 26.9       | 33.12      | 100                          | 5  |                               |                            |   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 10                           | 4  | 9                             | 1                          | 3   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 20                           | 2  | 5                             | 2                          | 4   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 30                           | 4  | 8                             | 3                          | 2   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 100                          | 5  |                               |                            |   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 300                          | 1  |                               |                            |   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 400                          | 1  |                               |                            |   |                                |
| 78                             | 89-11-09      | 1.0                   | 8 20 N                         | 102 38 W | 3.0                       | 3                          | 3                         | 27.4       | 33.17      | 700                          | 1  |                               |                            |   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 10                           | 7  | 5                             | 1                          | 4   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 20                           | 3  | 10                            | 2                          | 2   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 30                           | 2  | 1                             |                            |   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 100                          | 2  |                               |                            |   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 300                          | 1  |                               |                            |   |                                |
| 79                             | 89-11-10      | 1.0                   | 9 00 N                         | 101 45 W | 3.0                       | 5                          | 3                         | 27.0       | 33.27      | 400                          | 3  |                               |                            |   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 10                           | 5  | 14                            | 1                          | 3   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 20                           | 1  | 2                             | 2                          | 1   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 30                           | 2  | 1                             |                            |   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 100                          | 4  |                               |                            |   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 200                          | 1  | 2                             |                            |   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 400                          | 2  |                               |                            |   |                                |
| 80                             | 89-11-10      | 1.0                   | 10 08 N                        | 100 15 W | 0.0                       | 4                          | 2                         | 27.7       | 33.30      | 500                          | 1  |                               |                            |   |                                |
| 81                             | 89-11-11      | 1.0                   | 11 02 N                        | 97 16 W  | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 10                           | 6  | 15                            | 1                          | 1   |                                |
| 81                             | 89-11-11      | 1.0                   | 11 02 N                        | 97 16 W  | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 20                           | 6  | 25                            | 2                          | 6   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 81                             | 89-11-11      | 1.0                   | 11 02 N 97 16 W                | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 30                           | 5  | 24                            |                            |   |                                |
| 81                             | 89-11-11      | 1.0                   | 11 02 N 97 16 W                | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 90                           | 1  | 1                             |                            |   |                                |
| 81                             | 89-11-11      | 1.0                   | 11 02 N 97 16 W                | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 400                          | 2  |                               |                            |   |                                |
| 81                             | 89-11-11      | 1.0                   | 11 02 N 97 16 W                | 2.0                       | 4                          | 2                         | 27.3       | 33.24      | 500                          | 1  | 1                             |                            |   |                                |
| 82                             | 89-11-12      | 1.0                   | 11 33 N 93 52 W                | 5.0                       | 4                          | 2                         | 28.0       | 33.05      | 10                           | 8  | 8                             | 2                          | 1   |                                |
| 82                             | 89-11-12      | 1.0                   | 11 33 N 93 52 W                | 5.0                       | 4                          | 2                         | 28.0       | 33.05      | 20                           | 8  | 21                            |                            |   |                                |
| 82                             | 89-11-12      | 1.0                   | 11 33 N 93 52 W                | 5.0                       | 4                          | 2                         | 28.0       | 33.05      | 30                           | 8  | 5                             |                            |   |                                |
| 82                             | 89-11-12      | 1.0                   | 11 33 N 93 52 W                | 5.0                       | 4                          | 2                         | 28.0       | 33.05      | 100                          | 1  |                               |                            |   |                                |
| 82                             | 89-11-12      | 1.0                   | 11 33 N 93 52 W                | 5.0                       | 4                          | 2                         | 28.0       | 33.05      | 400                          | 1  |                               |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 10                           | 5  | 17                            | 1                          | 2   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 20                           | 6  | 23                            | 2                          | 5   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 30                           | 4  | 11                            |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 80                           | 4  | 2                             |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 90                           | 1  |                               |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 100                          | 1  |                               |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 400                          | 2  |                               |                            |   |                                |
| 83                             | 89-11-13      | 1.0                   | 11 36 N 91 08 W                | 1.0                       | 4                          | 1                         | 27.7       | 33.40      | 500                          | 1  |                               |                            |   |                                |
| 84                             | 89-11-14      | 1.0                   | 10 35 N 91 52 W                | 4.0                       | 4                          | 3                         | 28.3       | 33.35      | 10                           | 1  | 1                             | 1                          | 5   |                                |
| 84                             | 89-11-14      | 1.0                   | 10 35 N 91 52 W                | 4.0                       | 4                          | 3                         | 28.3       | 33.35      | 20                           | 1  | 2                             | 2                          | 6   |                                |
| 84                             | 89-11-14      | 1.0                   | 10 35 N 91 52 W                | 4.0                       | 4                          | 3                         | 28.3       | 33.35      | 30                           | 1  | 2                             | 3                          | 1   |                                |
| 84                             | 89-11-14      | 1.0                   | 10 35 N 91 52 W                | 4.0                       | 4                          | 3                         | 28.3       | 33.35      | 500                          | 1  | 1                             |                            |   |                                |
| 85                             | 89-11-14      | 1.0                   | 9 00 N 92 54 W                 | 0.0                       | 4                          | 2                         | 28.2       | 32.82      | 10                           | 3  | 4                             | 1                          | 2   |                                |
| 85                             | 89-11-14      | 1.0                   | 9 00 N 92 54 W                 | 0.0                       | 4                          | 2                         | 28.2       | 32.82      | 20                           | 3  | 5                             | 2                          | 5   |                                |
| 85                             | 89-11-14      | 1.0                   | 9 00 N 92 54 W                 | 0.0                       | 4                          | 2                         | 28.2       | 32.82      | 30                           | 2  | 2                             | 3                          | 1   |                                |
| 85                             | 89-11-14      | 1.0                   | 9 00 N 92 54 W                 | 0.0                       | 4                          | 2                         | 28.2       | 32.82      | 200                          | 1  | 1                             |                            |   |                                |
| 85                             | 89-11-14      | 1.0                   | 9 00 N 92 54 W                 | 0.0                       | 4                          | 2                         | 28.2       | 32.82      | 400                          | 2  |                               |                            |   |                                |
| 86                             | 89-11-15      | 1.0                   | 7 55 N 93 26 W                 | 1.0                       | 4                          | 2                         | 26.8       | 32.65      | 10                           | 1  | 1                             | 2                          | 4   |                                |
| 86                             | 89-11-15      | 1.0                   | 7 55 N 93 26 W                 | 1.0                       | 4                          | 2                         | 26.8       | 32.65      | 20                           | 3  | 9                             |                            |   |                                |
| 86                             | 89-11-15      | 1.0                   | 7 55 N 93 26 W                 | 1.0                       | 4                          | 2                         | 26.8       | 32.65      | 30                           | 2  | 3                             |                            |   |                                |
| 86                             | 89-11-15      | 1.0                   | 7 55 N 93 26 W                 | 1.0                       | 4                          | 2                         | 26.8       | 32.65      | 400                          | 2  | 3                             |                            |   |                                |
| 87                             | 89-11-15      | 1.0                   | 6 31 N 94 39 W                 | 1.0                       | 5                          | 2                         | 26.8       | 32.92      | 10                           | 4  | 11                            | 1                          | 2   |                                |
| 87                             | 89-11-15      | 1.0                   | 6 31 N 94 39 W                 | 1.0                       | 5                          | 2                         | 26.8       | 32.92      | 30                           | 1  | 1                             | 2                          | 2   |                                |
| 87                             | 89-11-15      | 1.0                   | 6 31 N 94 39 W                 | 1.0                       | 5                          | 2                         | 26.8       | 32.92      | 100                          | 4  |                               |                            |   |                                |
| 87                             | 89-11-15      | 1.0                   | 6 31 N 94 39 W                 | 1.0                       | 5                          | 2                         | 26.8       | 32.92      | 300                          | 1  |                               |                            |   |                                |
| 87                             | 89-11-15      | 1.0                   | 6 31 N 94 39 W                 | 1.0                       | 5                          | 2                         | 26.8       | 32.92      | 400                          | 1  |                               |                            |   |                                |
| 88                             | 89-11-16      | 1.0                   | 5 32 N 95 08 W                 | 4.0                       | 4                          | 5                         | 26.4       | 33.65      | 20                           | 1  | 1                             | 3                          | 4   |                                |
| 88                             | 89-11-16      | 1.0                   | 5 32 N 95 08 W                 | 4.0                       | 4                          | 5                         | 26.4       | 33.65      | 30                           | 1  |                               |                            |   |                                |
| 88                             | 89-11-16      | 1.0                   | 5 32 N 95 08 W                 | 4.0                       | 4                          | 5                         | 26.4       | 33.65      | 100                          | 2  | 1                             |                            |   |                                |
| 89                             | 89-11-16      | 1.0                   | 4 38 N 96 22 W                 | 3.0                       | 5                          | 3                         | 26.2       | 33.40      | 10                           | 2  | 3                             | 1                          | 3   |                                |
| 89                             | 89-11-16      | 1.0                   | 4 38 N 96 22 W                 | 3.0                       | 5                          | 3                         | 26.2       | 33.40      | 20                           | 2  | 5                             | 2                          | 2   |                                |
| 89                             | 89-11-16      | 1.0                   | 4 38 N 96 22 W                 | 3.0                       | 5                          | 3                         | 26.2       | 33.40      | 30                           | 4  | 12                            |                            |   |                                |
| 89                             | 89-11-16      | 1.0                   | 4 38 N 96 22 W                 | 3.0                       | 5                          | 3                         | 26.2       | 33.40      | 100                          | 5  |                               |                            |   |                                |
| 89                             | 89-11-16      | 1.0                   | 4 38 N 96 22 W                 | 3.0                       | 5                          | 3                         | 26.2       | 33.40      | 400                          | 1  |                               |                            |   |                                |
| 90                             | 89-11-17      | 1.0                   | 5 23 N 97 12 W                 | 2.0                       | 2                          | 1                         | 26.5       | 33.45      | 10                           | 1  | 1                             | 2                          | 4   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 10                           | 6  | 12                            | 1                          | 3   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 20                           | 3  | 8                             | 3                          | 1   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 30                           | 1  |                               |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 100                          | 3  |                               |                            |   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 200                          | 1  | 1                             |                            |   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 300                          | 1  |                               |                            |   |                                |
| 91                             | 89-11-17      | 1.0                   | 6 46 N 98 45 W                 | 3.0                       | 5                          | 2                         | 27.2       | 33.03      | 400                          | 2  |                               |                            |   |                                |
| 92                             | 89-11-18      | 1.0                   | 6 37 N 99 25 W                 | 4.0                       | 2                          | 2                         | 26.9       | 32.60      | 10                           | 1  | 1                             | 3                          | 1   |                                |
| 92                             | 89-11-18      | 1.0                   | 6 37 N 99 25 W                 | 4.0                       | 2                          | 2                         | 26.9       | 32.60      | 20                           | 1  | 2                             |                            |   |                                |
| 92                             | 89-11-18      | 1.0                   | 6 37 N 99 25 W                 | 4.0                       | 2                          | 2                         | 26.9       | 32.60      | 100                          | 3  | 6                             |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 10                           | 2  | 2                             | 1                          | 4   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 20                           | 1  | 1                             | 2                          | 3   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 30                           | 2  | 1                             |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 100                          | 5  | 1                             |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 125                          | 4  | 8                             |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 200                          | 4  |                               |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 300                          | 1  |                               |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 400                          | 2  |                               |                            |   |                                |
| 93                             | 89-11-18      | 1.0                   | 4 32 N 99 39 W                 | 4.0                       | 2                          | 2                         | 26.3       | 33.40      | 500                          | 1  |                               |                            |   |                                |
| 94                             | 89-11-19      | 1.0                   | 3 31 N 99 47 W                 | 3.0                       | 2                          | 3                         | 25.9       | 33.30      | 10                           | 2  | 4                             | 2                          | 2   |                                |
| 94                             | 89-11-19      | 1.0                   | 3 31 N 99 47 W                 | 3.0                       | 2                          | 3                         | 25.9       | 33.30      | 30                           | 1  | 1                             |                            |   |                                |
| 94                             | 89-11-19      | 1.0                   | 3 31 N 99 47 W                 | 3.0                       | 2                          | 3                         | 25.9       | 33.30      | 100                          | 3  |                               |                            |   |                                |
| 94                             | 89-11-19      | 1.0                   | 3 31 N 99 47 W                 | 3.0                       | 2                          | 3                         | 25.9       | 33.30      | 400                          | 1  |                               |                            |   |                                |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 10                           | 4  | 9                             | 1                          | 3   |                                |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 20                           | 1  | 1                             | 3                          | 1   | 1                              |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 30                           | 2  | 2                             |                            |   |                                |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 100                          | 3  |                               |                            |   |                                |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 300                          | 1  |                               |                            |   |                                |
| 95                             | 89-11-19      | 1.0                   | 1 24 N 100 00 W                | 4.0                       | 2                          | 3                         | 24.8       | 33.30      | 400                          | 1  |                               |                            |   |                                |
| 96                             | 89-11-20      | 1.0                   | 1 09 N 101 23 W                | 6.0                       | 2                          | 2                         | 24.4       | 33.70      | 10                           | 8  | 4                             | 2                          | 4   |                                |
| 96                             | 89-11-20      | 1.0                   | 1 09 N 101 23 W                | 6.0                       | 2                          | 2                         | 24.4       | 33.70      | 100                          | 1  |                               | 3                          | 2   |                                |
|                                | 89-11-20      |                       | 1 09 N 101 26 W                |                           |                            |                           |            |            | 20                           |  | 1                             |                            |   |                                |
| 97                             | 89-11-20      | 1.0                   | 0 29 N 103 54 W                | 5.0                       | 5                          | 2                         | 22.6       | 34.29      | 10                           | 3  | 4                             | 1                          | 2   |                                |
| 97                             | 89-11-20      | 1.0                   | 0 29 N 103 54 W                | 5.0                       | 5                          | 2                         | 22.6       | 34.29      | 20                           | 1  | 1                             | 2                          | 1   |                                |
| 97                             | 89-11-20      | 1.0                   | 0 29 N 103 54 W                | 5.0                       | 5                          | 2                         | 22.6       | 34.29      | 30                           | 2  | 2                             | 3                          | 1   |                                |
| 97                             | 89-11-20      | 1.0                   | 0 29 N 103 54 W                | 5.0                       | 5                          | 2                         | 22.6       | 34.29      | 100                          | 4  |                               |                            |   |                                |
| 98                             | 89-11-21      | 1.0                   | 0 12 N 105 14 W                | 4.0                       | 2                          | 2                         | 20.6       | 34.80      | 100                          | 4  |                               | 2                          | 3   |                                |
| 99                             | 89-11-21      | 1.0                   | 1 43 N 107 05 W                | 3.0                       | 2                          | 3                         | 21.2       | 34.70      | 20                           | 1  | 2                             | 1                          | 1   |                                |
| 99                             | 89-11-21      | 1.0                   | 1 43 N 107 05 W                | 3.0                       | 2                          | 3                         | 21.2       | 34.70      | 100                          | 5  |                               | 2                          | 5   |                                |
| 100                            | 89-11-22      | 1.0                   | 2 42 N 107 59 W                | 5.0                       | 2                          | 1                         | 24.5       | 34.00      | 5                            | 2  |                               |                            |   |                                |
| 100                            | 89-11-22      | 1.0                   | 2 42 N 107 59 W                | 5.0                       | 2                          | 1                         | 24.5       | 34.00      | 30                           | 1  |                               |                            |   |                                |
| 100                            | 89-11-22      | 1.0                   | 2 42 N 107 59 W                | 5.0                       | 2                          | 1                         | 24.5       | 34.00      | 500                          | 6  |                               |                            |   |                                |
| 101                            | 89-11-22      | 1.0                   | 3 34 N 109 58 W                | 5.0                       | 5                          | 2                         | 26.4       | 33.88      | 10                           | 1  | 2                             | 1                          | 1   |                                |
| 101                            | 89-11-22      | 1.0                   | 3 34 N 109 58 W                | 5.0                       | 5                          | 2                         | 26.4       | 33.88      | 20                           | 2  | 2                             | 2                          | 3   |                                |
| 101                            | 89-11-22      | 1.0                   | 3 34 N 109 58 W                | 5.0                       | 5                          | 2                         | 26.4       | 33.88      | 100                          | 4  |                               | 3                          | 1   |                                |
| 102                            | 89-11-23      | 1.0                   | 3 49 N 111 09 W                | 4.0                       | 1                          | 3                         | 25.8       | 34.00      | 100                          | 3  |                               | 1                          | 1   |                                |
|                                | 89-11-23      |                       | 3 38 N 110 22 W                |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 103                            | 89-11-23      | 1.0                   | 5 49 N 111 38 W                | 3.0                       | 5                          | 3                         | 26.9       | 33.93      | 10                           | 1  | 1                             | 1                          | 4   |                                |
| 103                            | 89-11-23      | 1.0                   | 5 49 N 111 38 W                | 3.0                       | 5                          | 3                         | 26.9       | 33.93      | 20                           | 3  | 9                             | 2                          | 2   |                                |
| 103                            | 89-11-23      | 1.0                   | 5 49 N 111 38 W                | 3.0                       | 5                          | 3                         | 26.9       | 33.93      | 30                           | 3  | 6                             |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 103                            | 89-11-23      | 1.0                   | 5 49 N 111 38 W                | 3.0                       | 5                          | 3                         | 26.9       | 33.93      | 100                          | 4  |                               |                            |   |                                |
| 104                            | 89-11-24      | 1.0                   | 7 00 N 111 56 W                | 1.0                       | 5                          | 1                         | 27.4       | 33.90      | 20                           | 1  | 1                             | 3                          | 1   |                                |
| 104                            | 89-11-24      | 1.0                   | 7 00 N 111 56 W                | 1.0                       | 5                          | 1                         | 27.4       | 33.90      | 100                          | 2  | 3                             |                            |   |                                |
| 104                            | 89-11-24      | 1.0                   | 7 00 N 111 56 W                | 1.0                       | 5                          | 1                         | 27.4       | 33.90      | 125                          | 1  | 1                             |                            |   |                                |
| 104                            | 89-11-24      | 1.0                   | 7 00 N 111 56 W                | 1.0                       | 5                          | 1                         | 27.4       | 33.90      | 400                          | 1  |                               |                            |   |                                |
| 105                            | 89-11-24      | 1.0                   | 8 45 N 112 23 W                | 4.0                       | 5                          | 2                         | 27.6       | 33.54      | 10                           | 1  | 1                             | 1                          | 1   |                                |
| 105                            | 89-11-24      | 1.0                   | 8 45 N 112 23 W                | 4.0                       | 5                          | 2                         | 27.6       | 33.54      | 20                           | 3  | 5                             | 2                          | 3   |                                |
| 105                            | 89-11-24      | 1.0                   | 8 45 N 112 23 W                | 4.0                       | 5                          | 2                         | 27.6       | 33.54      | 30                           | 2  | 3                             |                            |   |                                |
| 105                            | 89-11-24      | 1.0                   | 8 45 N 112 23 W                | 4.0                       | 5                          | 2                         | 27.6       | 33.54      | 100                          | 4  |                               |                            |   |                                |
| 105                            | 89-11-24      | 1.0                   | 8 45 N 112 23 W                | 4.0                       | 5                          | 2                         | 27.6       | 33.54      | 400                          | 2  |                               |                            |   |                                |
| 106                            | 89-11-25      | 1.0                   | 10 04 N 112 26 W               | 4.0                       | 5                          | 1                         | 27.5       | 33.20      | 10                           | 1  | 1                             | 1                          | 4   |                                |
| 106                            | 89-11-25      | 1.0                   | 10 04 N 112 26 W               | 4.0                       | 5                          | 1                         | 27.5       | 33.20      | 20                           | 3  | 7                             | 3                          | 2   |                                |
| 106                            | 89-11-25      | 1.0                   | 10 04 N 112 26 W               | 4.0                       | 5                          | 1                         | 27.5       | 33.20      | 30                           | 3  | 6                             |                            |   |                                |
| 106                            | 89-11-25      | 1.0                   | 10 04 N 112 26 W               | 4.0                       | 5                          | 1                         | 27.5       | 33.20      | 100                          | 1  |                               |                            |   |                                |
| 107                            | 89-11-25      | 1.0                   | 11 52 N 112 50 W               | 4.0                       | 5                          | 2                         | 27.6       | 33.17      | 10                           | 2  | 1                             | 2                          | 2   |                                |
| 107                            | 89-11-25      | 1.0                   | 11 52 N 112 50 W               | 4.0                       | 5                          | 2                         | 27.6       | 33.17      | 20                           | 2  | 3                             |                            |   |                                |
| 107                            | 89-11-25      | 1.0                   | 11 52 N 112 50 W               | 4.0                       | 5                          | 2                         | 27.6       | 33.17      | 30                           | 3  | 7                             |                            |   |                                |
| 107                            | 89-11-25      | 1.0                   | 11 52 N 112 50 W               | 4.0                       | 5                          | 2                         | 27.6       | 33.17      | 100                          | 3  |                               |                            |   |                                |
| 107                            | 89-11-25      | 1.0                   | 11 52 N 112 50 W               | 4.0                       | 5                          | 2                         | 27.6       | 33.17      | 500                          | 1  | 1                             |                            |   |                                |
| 108                            | 89-11-26      | 1.0                   | 13 06 N 112 35 W               | 5.0                       | 5                          | 1                         | 27.6       | 33.40      | 20                           | 1  | 1                             | 3                          | 2   |                                |
| 108                            | 89-11-26      | 1.0                   | 13 06 N 112 35 W               | 5.0                       | 5                          | 1                         | 27.6       | 33.40      | 30                           | 1  |                               |                            |   |                                |
| 108                            | 89-11-26      | 1.0                   | 13 06 N 112 35 W               | 5.0                       | 5                          | 1                         | 27.6       | 33.40      | 100                          | 1  |                               |                            |   |                                |
| 108                            | 89-11-26      | 1.0                   | 13 06 N 112 35 W               | 5.0                       | 5                          | 1                         | 27.6       | 33.40      | 500                          | 2  |                               |                            |   |                                |
| 109                            | 89-11-26      | 1.0                   | 15 02 N 112 58 W               | 5.0                       | 5                          | 2                         | 27.6       | 33.47      | 10                           | 3  | 10                            | 2                          | 4   |                                |
| 109                            | 89-11-26      | 1.0                   | 15 02 N 112 58 W               | 5.0                       | 5                          | 2                         | 27.6       | 33.47      | 20                           | 2  | 3                             | 3                          | 1   |                                |
| 109                            | 89-11-26      | 1.0                   | 15 02 N 112 58 W               | 5.0                       | 5                          | 2                         | 27.6       | 33.47      | 30                           | 2  | 2                             |                            |   |                                |
| 109                            | 89-11-26      | 1.0                   | 15 02 N 112 58 W               | 5.0                       | 5                          | 2                         | 27.6       | 33.47      | 100                          | 3  |                               |                            |   |                                |
| 109                            | 89-11-26      | 1.0                   | 15 02 N 112 58 W               | 5.0                       | 5                          | 2                         | 27.6       | 33.47      | 400                          | 3  |                               |                            |   |                                |
| 110                            | 89-11-27      | 1.0                   | 15 57 N 112 11 W               | 3.0                       | 5                          | 2                         | 27.0       | 34.00      | 10                           | 5  | 12                            | 2                          | 2   |                                |
| 110                            | 89-11-27      | 1.0                   | 15 57 N 112 11 W               | 3.0                       | 5                          | 2                         | 27.0       | 34.00      | 20                           | 2  | 2                             | 3                          | 4   |                                |
| 110                            | 89-11-27      | 1.0                   | 15 57 N 112 11 W               | 3.0                       | 5                          | 2                         | 27.0       | 34.00      | 30                           | 3  | 3                             |                            |   |                                |
| 110                            | 89-11-27      | 1.0                   | 15 57 N 112 11 W               | 3.0                       | 5                          | 2                         | 27.0       | 34.00      | 300                          | 1  |                               |                            |   |                                |
| 110                            | 89-11-27      | 1.0                   | 15 57 N 112 11 W               | 3.0                       | 5                          | 2                         | 27.0       | 34.00      | 400                          | 3  |                               |                            |   |                                |
|                                | 89-11-27      |                       | 15 30 N 112 45 W               |                           |                            |                           |            |            | 30                           |  | 1                             |                            |   |                                |
| 111                            | 89-11-27      | 1.0                   | 17 12 N 110 46 W               | 3.0                       | 5                          | 2                         | 27.7       | 33.67      | 10                           | 4  | 7                             | 1                          | 1   |                                |
| 111                            | 89-11-27      | 1.0                   | 17 12 N 110 46 W               | 3.0                       | 5                          | 2                         | 27.7       | 33.67      | 20                           | 2  | 3                             | 2                          | 3   |                                |
| 111                            | 89-11-27      | 1.0                   | 17 12 N 110 46 W               | 3.0                       | 5                          | 2                         | 27.7       | 33.67      | 30                           | 2  | 2                             | 3                          | 3   |                                |
| 111                            | 89-11-27      | 1.0                   | 17 12 N 110 46 W               | 3.0                       | 5                          | 2                         | 27.7       | 33.67      | 100                          | 3  |                               |                            |   |                                |
| 111                            | 89-11-27      | 1.0                   | 17 12 N 110 46 W               | 3.0                       | 5                          | 2                         | 27.7       | 33.67      | 300                          | 1  |                               |                            |   |                                |
| 112                            | 89-11-28      | 1.0                   | 18 06 N 109 44 W               | 1.0                       | 5                          | 1                         | 27.0       | 34.00      | 10                           | 3  | 10                            | 3                          | 3   |                                |
| 112                            | 89-11-28      | 1.0                   | 18 06 N 109 44 W               | 1.0                       | 5                          | 1                         | 27.0       | 34.00      | 20                           | 1  | 1                             |                            |   |                                |
| 112                            | 89-11-28      | 1.0                   | 18 06 N 109 44 W               | 1.0                       | 5                          | 1                         | 27.0       | 34.00      | 90                           | 1  |                               |                            |   |                                |
| 112                            | 89-11-28      | 1.0                   | 18 06 N 109 44 W               | 1.0                       | 5                          | 1                         | 27.0       | 34.00      | 100                          | 1  |                               |                            |   |                                |
| 112                            | 89-11-28      | 1.0                   | 18 06 N 109 44 W               | 1.0                       | 5                          | 1                         | 27.0       | 34.00      | 400                          | 1  |                               |                            |   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                         | 27.3       | 34.07      | 10                           | 4  | 17                            | 1                          | 2   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                         | 27.3       | 34.07      | 20                           | 2  | 3                             | 2                          | 5   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                         | 27.3       | 34.07      | 100                          | 4  |                               | 3                          | 2   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Concl. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|----------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                          | 27.3       | 34.07      | 300                          | 1  |                               |                            |   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                          | 27.3       | 34.07      | 400                          | 1  |                               |                            |   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                          | 27.3       | 34.07      | 500                          | 1  | 1                             |                            |   |                                |
| 113                            | 89-11-28      | 1.0                   | 18 26 N 107 52 W               | 3.0                       | 5                          | 3                          | 27.3       | 34.07      | 500                          | 1  | 1                             |                            |   |                                |
| 114                            | 89-11-29      | 1.0                   | 18 37 N 106 30 W               | 3.0                       | 5                          | 1                          | 27.5       | 33.80      | 10                           | 3  | 8                             | 1                          | 2   |                                |
| 114                            | 89-11-29      | 1.0                   | 18 37 N 106 30 W               | 3.0                       | 5                          | 1                          | 27.5       | 33.80      | 20                           | 1  | 1                             | 2                          | 2   |                                |
| 114                            | 89-11-29      | 1.0                   | 18 37 N 106 30 W               | 3.0                       | 5                          | 1                          | 27.5       | 33.80      | 30                           | 2  | 4                             | 3                          | 3   |                                |
| 114                            | 89-11-29      | 1.0                   | 18 37 N 106 30 W               | 3.0                       | 5                          | 1                          | 27.5       | 33.80      | 500                          | 1  |                               |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 30                           | 2  | 1                             | 1                          | 5   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 100                          | 2  |                               | 2                          | 4   | 1                              |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 200                          | 4  | 7                             | 3                          | 3   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 400                          | 1  |                               |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 1  | 1                             |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 6  | 5                             |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 2  | 4                             |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 2  | 2                             |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 1  | 2                             |                            |   |                                |
| 115                            | 89-11-29      | 1.0                   | 18 56 N 105 02 W               | 1.0                       | 5                          | 2                          | 28.2       | 34.00      | 500                          | 1  | 1                             |                            |   |                                |
|                                | 89-11-29      |                       | 18 57 N 105 03 W               |                           |                            |                            |            |            | 30                           |  | 2                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 15                           | 3  | 4                             | 1                          | 4   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 30                           | 3  | 6                             | 2                          | 4   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 400                          | 2  |                               | 3                          | 2   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 6  |                               |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 5  |                               |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 200                          | 4  |                               |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 2  | 3                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 1  | 1                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 1  | 1                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 1  | 2                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 1  | 2                             |                            |   |                                |
| 116                            | 89-11-29      | 1.0                   | 18 58 N 104 52 W               | 1.0                       | 5                          | 3                          | 28.4       | 34.11      | 500                          | 1  | 2                             |                            |   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 15                           | 6  | 15                            | 1                          | 2   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 30                           | 3  | 4                             | 2                          | 4   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 200                          | 4  |                               | 3                          | 2   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 500                          | 1  | 1                             |                            |   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 500                          | 5  |                               |                            |   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 500                          | 3  |                               |                            |   |                                |
| 117                            | 89-11-30      | 1.0                   | 19 01 N 104 41 W               | 0.0                       | 5                          | 3                          | 28.4       | 34.01      | 500                          | 1  |                               |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 30                           | 3  | 5                             | 3                          | 2   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 80                           | 1  | 1                             |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 400                          | 4  |                               |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 1  | 1                             |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 1  | 2                             |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 6  |                               |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 1  | 1                             |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 1  | 1                             |                            |   |                                |
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                          | 28.1       | 34.12      | 500                          | 1  |                               |                            |   |                                |

Table 5. continued.

| Station <sup>1</sup><br>Number | Date<br>Y/M/D | Hours<br>of<br>Effort | Location<br>Latitude Longitude | Sea <sup>2</sup><br>State | Moon <sup>3</sup><br>Phase | Sky <sup>4</sup><br>Cond. | SST<br>(C) | SSS<br>(%) | Fish <sup>5</sup><br>Species | Relative <sup>6</sup><br>Abundance<br>(Fish) | Number<br>Collected<br>(Fish) | Squid <sup>7</sup><br>Type | Relative <sup>6</sup><br>Abundance<br>(Squid) | Number<br>Collected<br>(Squid) |
|--------------------------------|---------------|-----------------------|--------------------------------|---------------------------|----------------------------|---------------------------|------------|------------|------------------------------|--|-------------------------------|----------------------------|---|--------------------------------|
| 118                            | 89-11-30      | 1.0                   | 19 02 N 104 30 W               | 0.0                       | 5                          | 1                         | 28.1       | 34.12      | 900                          | 1  |                               |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 10                           | 4  | 8                             | 1                          | 6   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 15                           | 3  | 3                             | 2                          | 5   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 30                           | 3  | 8                             | 3                          | 3   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 80                           | 2  | 3                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 100                          | 3  |                               |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 400                          | 3  |                               |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 1  | 1                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 2  | 3                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 2  | 2                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 1  |                               |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 3  | 5                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 1  | 1                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 1  | 2                             |                            |   |                                |
| 119                            | 89-12-01      | 1.0                   | 19 29 N 105 34 W               | 3.0                       | 5                          | 3                         | 26.9       | 34.11      | 500                          | 1  |                               |                            |   |                                |
|                                | 89-12-01      |                       | 19 30 N 105 35 W               |                           |                            |                           |            |            | 30                           |  | 3                             |                            |   |                                |
| 120                            | 89-12-02      | 1.0                   | 20 35 N 108 49 W               | 4.0                       | 1                          | 2                         | 26.9       | 34.23      | 10                           | 3  | 8                             | 1                          | 3   |                                |
| 120                            | 89-12-02      | 1.0                   | 20 35 N 108 49 W               | 4.0                       | 1                          | 2                         | 26.9       | 34.23      | 20                           | 2  | 2                             | 2                          | 2   |                                |
| 120                            | 89-12-02      | 1.0                   | 20 35 N 108 49 W               | 4.0                       | 1                          | 2                         | 26.9       | 34.23      | 30                           | 1  |                               | 3                          | 1   |                                |
| 120                            | 89-12-02      | 1.0                   | 20 35 N 108 49 W               | 4.0                       | 1                          | 2                         | 26.9       | 34.23      | 90                           | 1  | 1                             |                            |   |                                |
| 120                            | 89-12-02      | 1.0                   | 20 35 N 108 49 W               | 4.0                       | 1                          | 2                         | 26.9       | 34.23      | 100                          | 1  |                               |                            |   |                                |
| 121                            | 89-12-03      | 1.0                   | 23 05 N 111 42 W               | 3.0                       | 2                          | 1                         | 23.8       | 34.33      | 30                           | 1  | 1                             | 2                          | 4   |                                |
| 121                            | 89-12-03      | 1.0                   | 23 05 N 111 42 W               | 3.0                       | 2                          | 1                         | 23.8       | 34.33      | 400                          | 1  |                               |                            |   |                                |
| 121                            | 89-12-03      | 1.0                   | 23 05 N 111 42 W               | 3.0                       | 2                          | 1                         | 23.8       | 34.33      | 500                          | 1  | 1                             |                            |   |                                |
| 121                            | 89-12-03      | 1.0                   | 23 05 N 111 42 W               | 3.0                       | 2                          | 1                         | 23.8       | 34.33      | 100                          | 3  |                               |                            |   |                                |
| 122                            | 89-12-04      | 1.0                   | 25 42 N 114 00 W               | 3.0                       | 2                          | 1                         | 21.3       | 34.00      | 100                          | 2  |                               | 1                          | 2   |                                |
| 122                            | 89-12-04      | 1.0                   | 25 42 N 114 00 W               | 3.0                       | 2                          | 1                         | 21.3       | 34.00      | 300                          | 1  |                               | 2                          | 2   | 1                              |
| 123                            | 89-12-05      | 1.0                   | 29 19 N 115 53 W               | 1.0                       | 2                          | 1                         | 19.5       | 34.00      | 30                           | 1  | 1                             | 2                          | 3   |                                |
| 123                            | 89-12-05      | 1.0                   | 29 19 N 115 53 W               | 1.0                       | 2                          | 1                         | 19.5       | 34.00      | 400                          | 1  | 1                             | 3                          | 2   | 6                              |
| 123                            | 89-12-05      | 1.0                   | 29 19 N 115 53 W               | 1.0                       | 2                          | 1                         | 19.5       | 34.00      | 500                          | 2  | 3                             |                            |   |                                |
| 124                            | 89-12-06      | 1.0                   | 31 27 N 116 51 W               | 2.0                       | 3                          | 1                         | 16.3       | 33.52      | 500                          | 1  |                               |                            |   |                                |



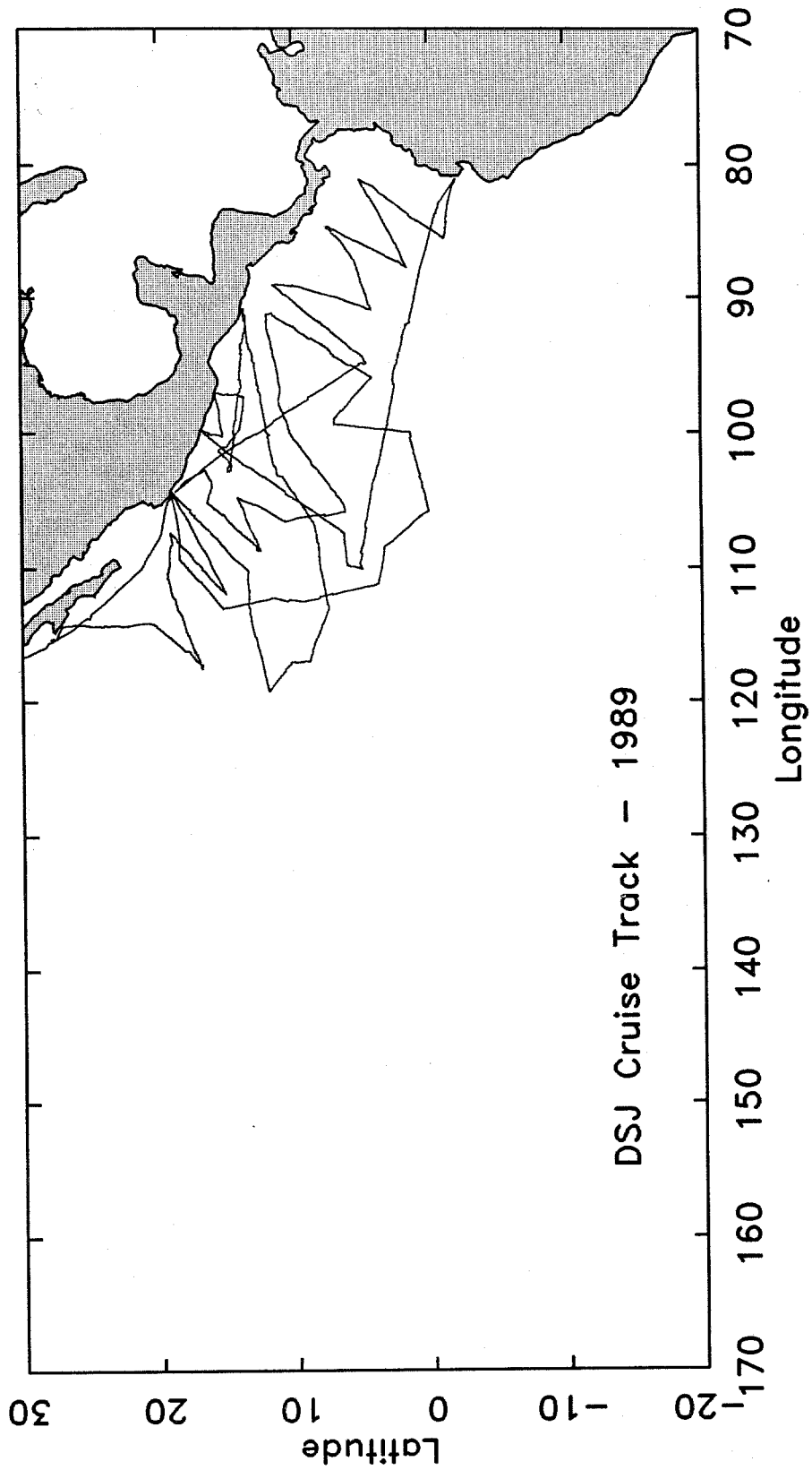


Figure 1. Cruise track, *Jordan*, 29 July - 7 December, 1989

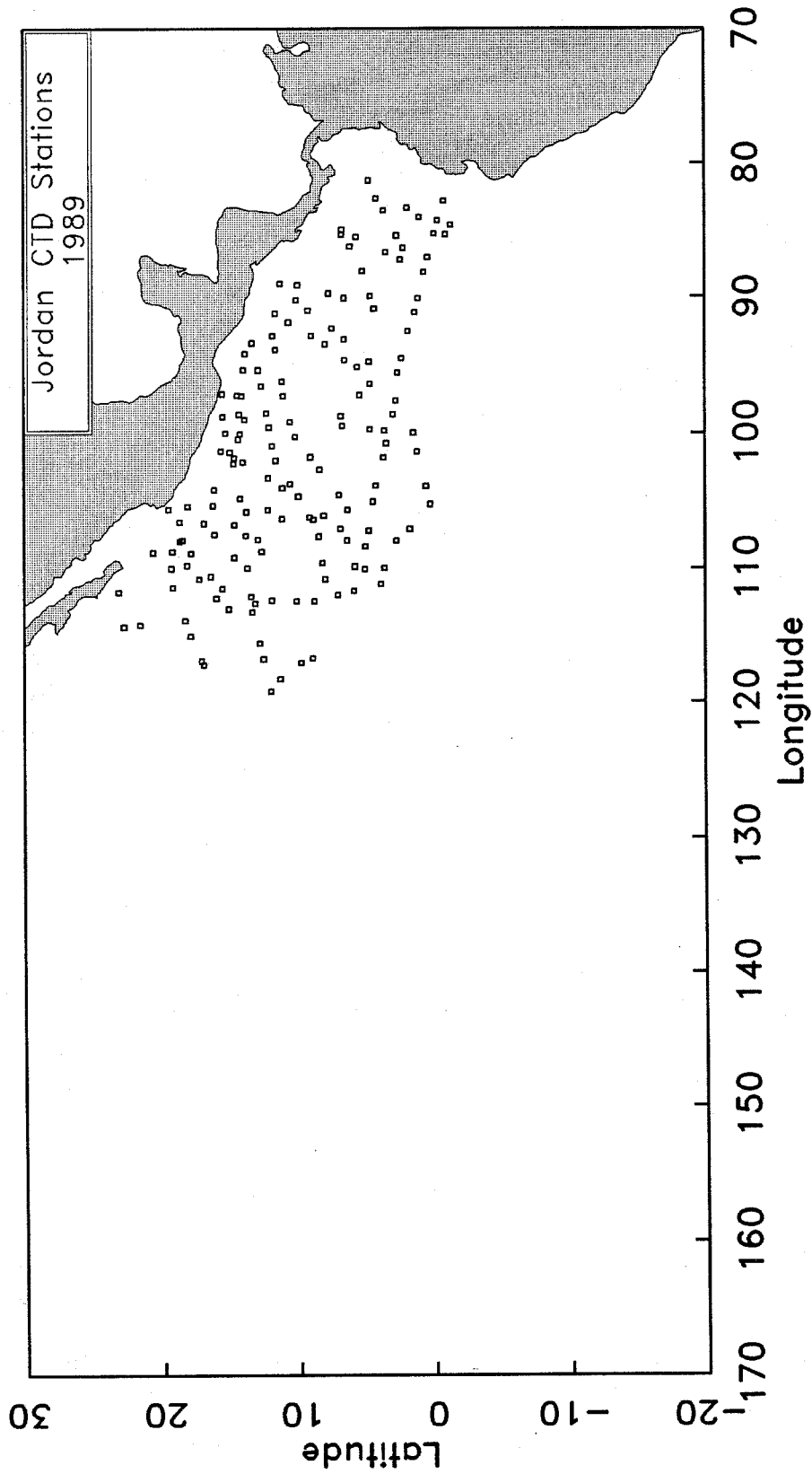


Figure 2. CTD stations, Jordan, 29 July - 7 December, 1989

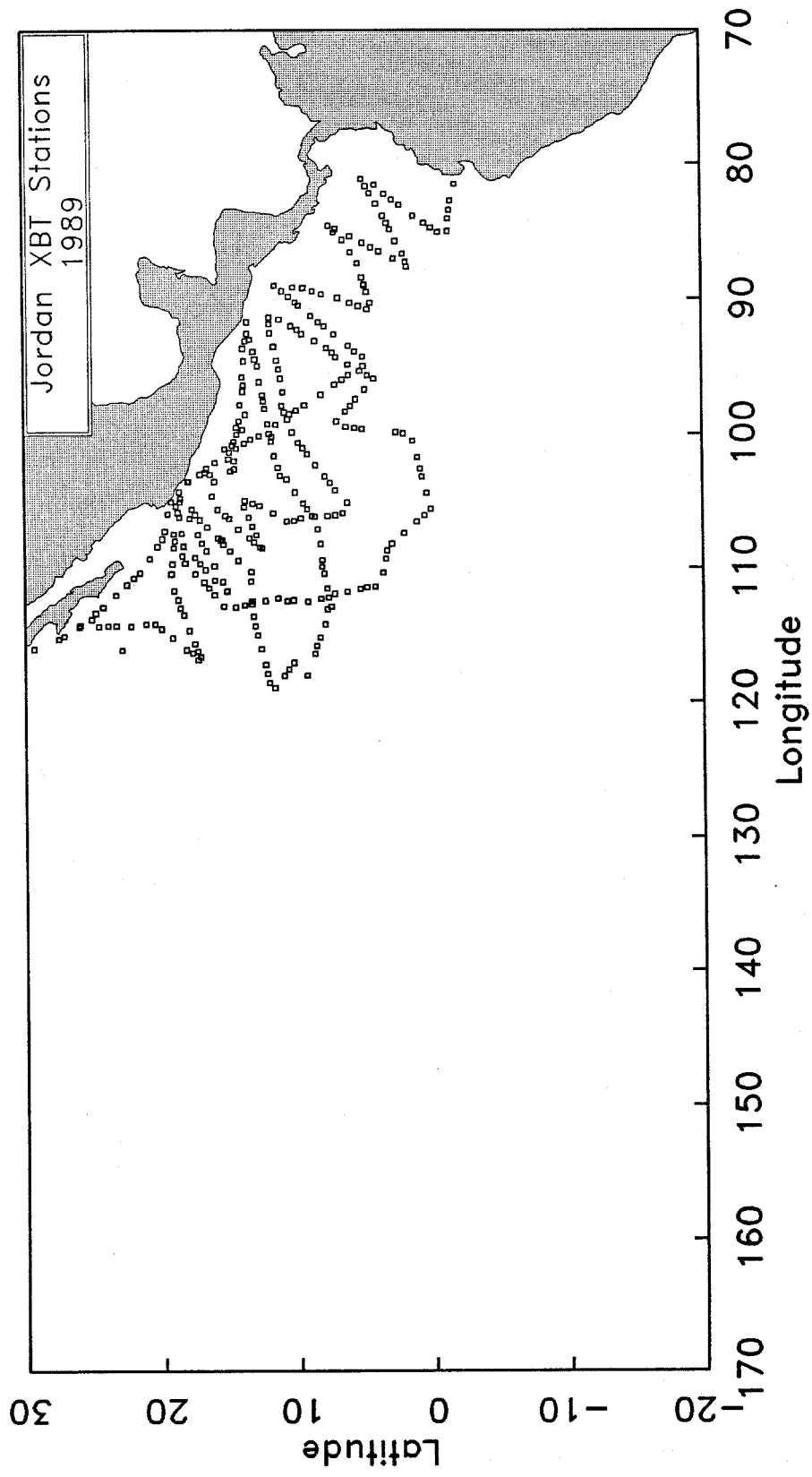


Figure 3. XBT deployments, Jordan, 29 July - 7 December, 1989

# Surface chlorophyll, MOPS89

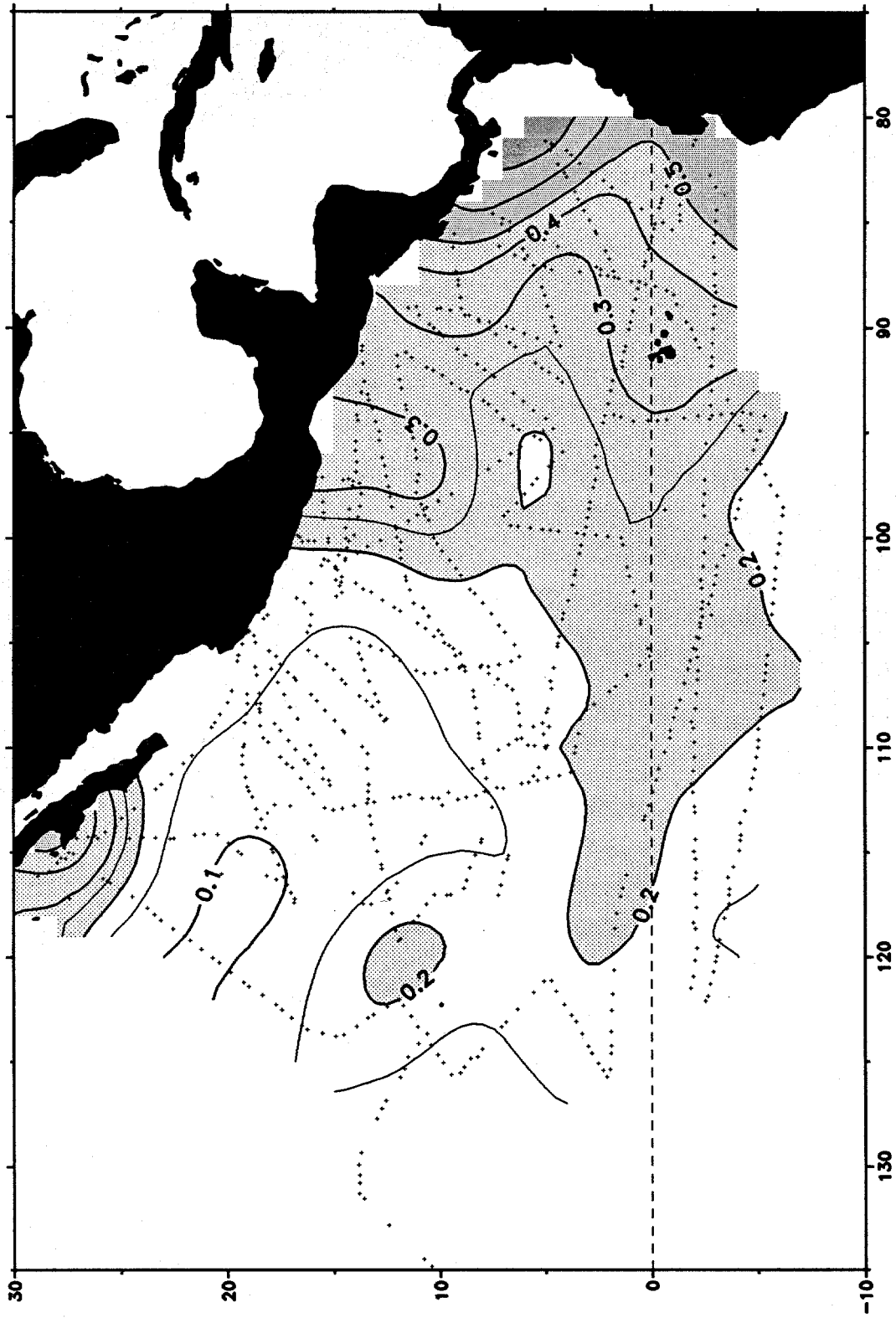


Figure 4. Surface chlorophyll ( $\text{mg} \cdot \text{m}^{-3}$ ), Jordan and McArthur, 29 July - 7 December, 1989

# Integrated chlorophyll, MOPS89

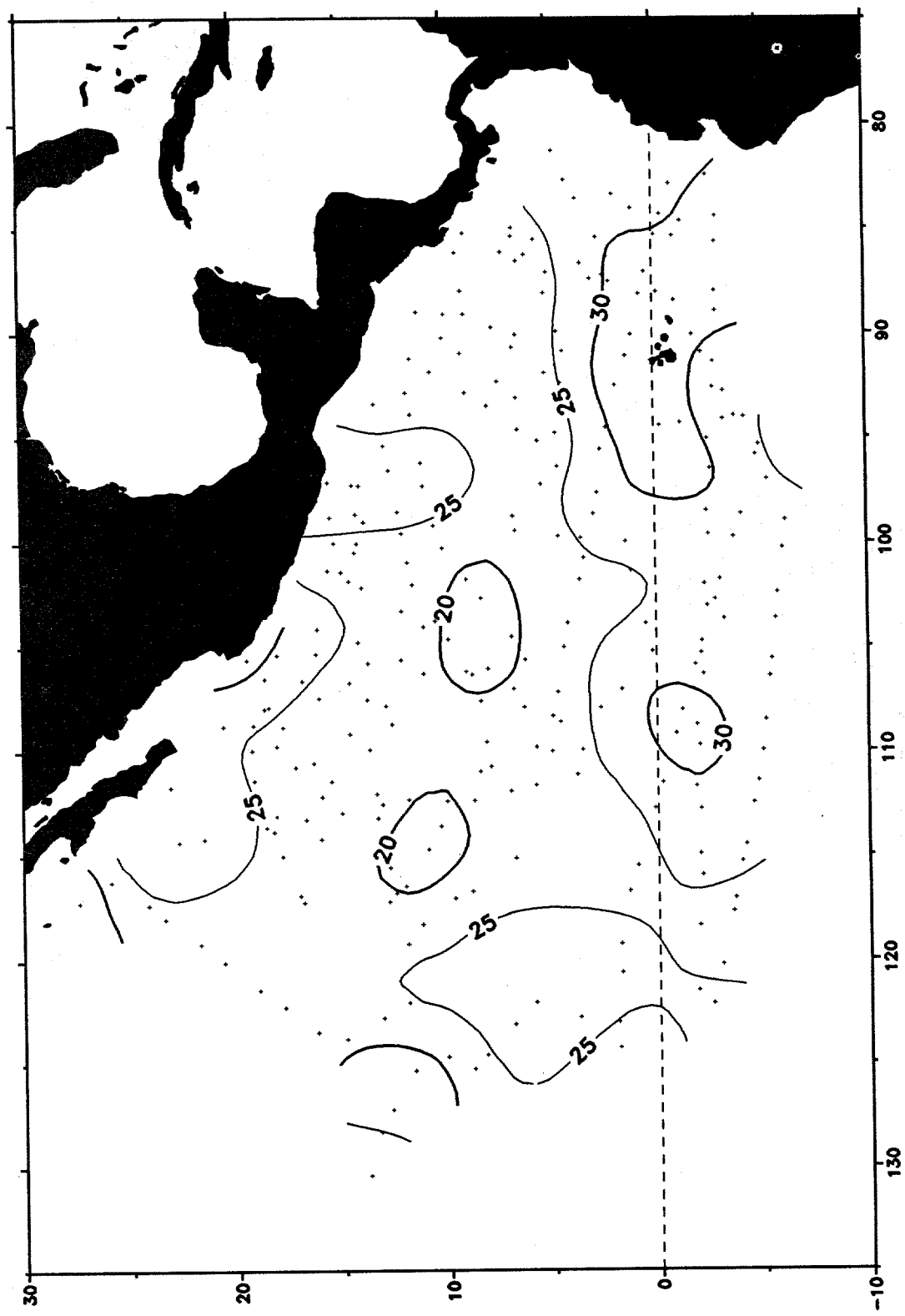


Figure 5. Integrated chlorophyll ( $\text{mg} \cdot \text{m}^{-2}$ , 0-150 m), Jordan and McArthur, 29 July - 7 December, 1989

# DAVID STAR JORDAN DEPLOYMENTS, 1989

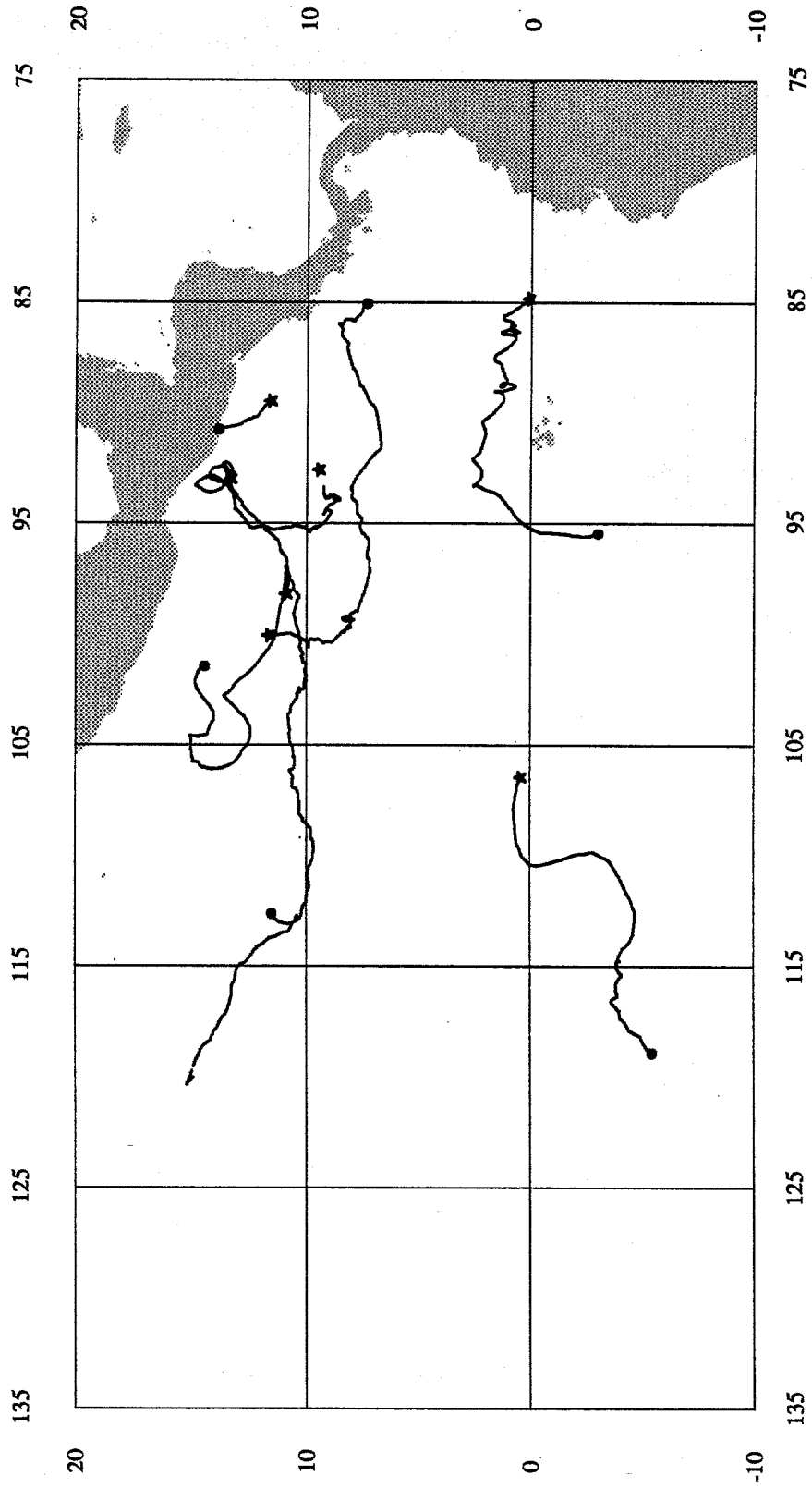


Figure 6. Tracks of seven drifting buoys, Jordan, 29 July - 7 December, 1989

- \* Location of buoy deployment
- Location of last signal from buoy

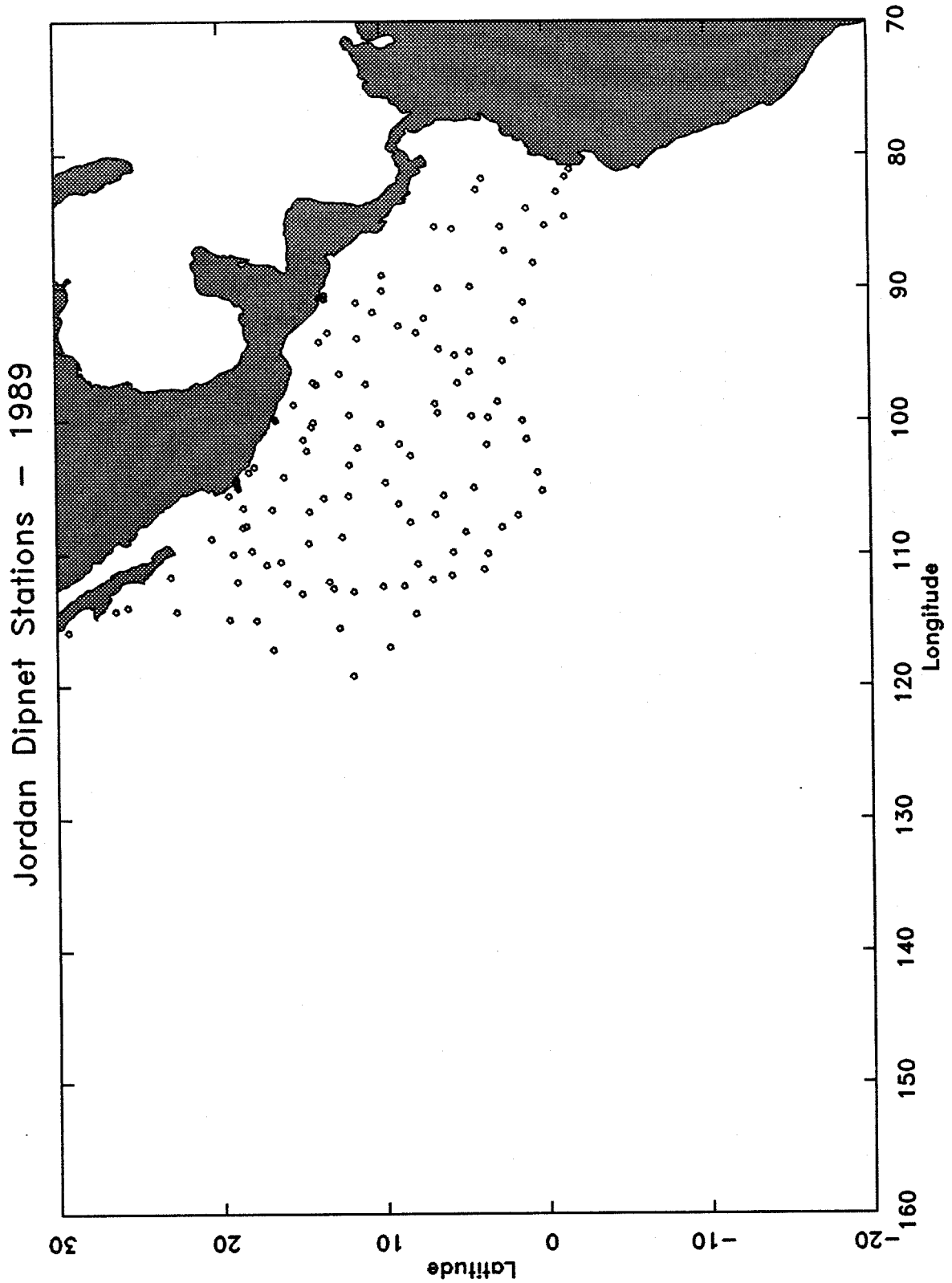


Figure 7. Locations of dipnet stations, Jordan, 29 July - 7 December, 1989

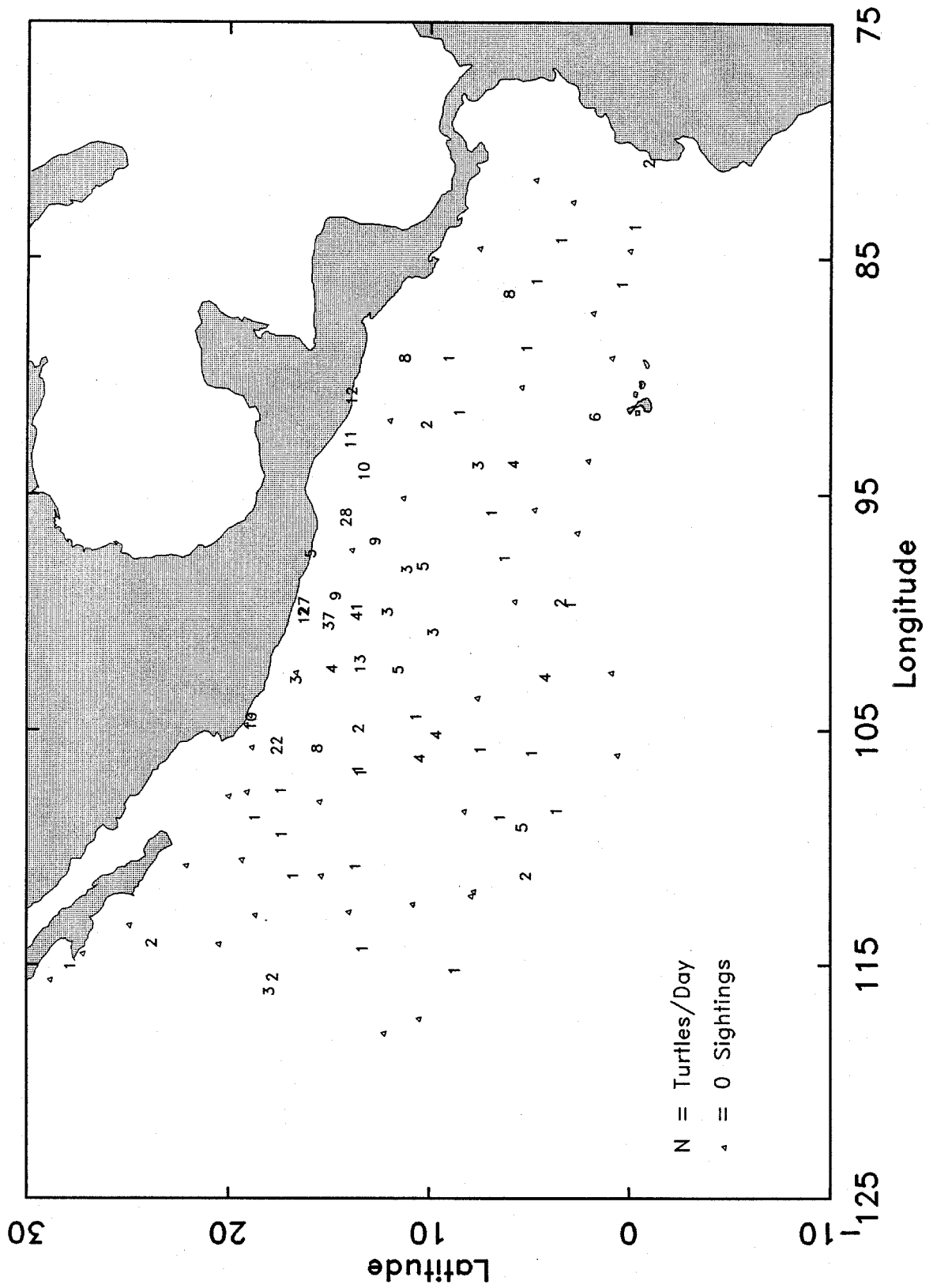


Figure 8. Locations of turtle sightings, Jordan, 29 July - 7 December, 1989



## APPENDIX A

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-001      | Date - GMT | 2 AUG 89 |
| Station Name | D891-001   | Time - GMT | 0346     |
| Latitude     | 22.42.6 N  | Date - LOC | 1 AUG 89 |
| Longitude    | 114.19.9 W | Time - LOC | 2046     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 24.50           | 34.07             | 0.15              | 0.02             | --               |
| 20           | 24.40           | 34.02             | 0.18              | 0.04             | 5.45             |
| 40           | 17.69           | 33.76             | 0.28              | 0.09             | 6.74             |
| 60           | 14.85           | 33.73             | 0.65              | 0.25             | 6.50             |
| 80           | 13.20           | 33.70             | 0.27              | 0.20             | 4.72             |
| 100          | 11.80           | 33.76             | 0.09              | 0.10             | 4.61             |
| 125          | 11.45           | 34.07             | 0.02              | 0.02             | 3.14             |
| 150          | 11.14           | 34.20             | 0.01              | 0.02             | 2.29             |
| 200          | 11.36           | 34.61             | --                | --               | 0.61             |
| 350          | 9.47            | 34.59             | --                | --               | 0.48             |
| 500          | 7.31            | 34.49             | --                | --               | 0.49             |
| 1000         | 4.55            | 34.50             | --                | --               | 0.99             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-002      | Date - GMT | 2 AUG 89 |
| Station Name | D891-002   | Time - GMT | 1152     |
| Latitude     | 21.31.7 N  | Date - LOC | 2 AUG 89 |
| Longitude    | 114.10.7 W | Time - LOC | 0452     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 23.50           | 33.84             | 0.12              | 0.02             | --               |
| 20           | 21.78           | 33.65             | 0.10              | 0.01             | 5.82             |
| 40           | 18.55           | 33.70             | 0.11              | 0.02             | 6.60             |
| 60           | 16.13           | 33.64             | 0.23              | 0.08             | 6.60             |
| 80           | 14.51           | 33.61             | 0.74              | 0.30             | 6.57             |
| 100          | 13.05           | 33.87             | 0.16              | 0.20             | 4.64             |
| 125          | 12.11           | 34.17             | 0.04              | 0.05             | 3.18             |
| 150          | 12.20           | 34.56             | 0.01              | 0.03             | 1.43             |
| 200          | 11.86           | 34.69             | --                | --               | 0.78             |
| 350          | 9.29            | 34.57             | --                | --               | 0.75             |
| 500          | 7.17            | 34.45             | --                | --               | 0.82             |
| 1000         | 4.33            | 34.52             | --                | --               | 1.15             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-003      | Date - GMT | 4 AUG 89 |
| Station Name | D891-003   | Time - GMT | 0324     |
| Latitude     | 16.50.2 N  | Date - LOC | 3 AUG 89 |
| Longitude    | 117.13.7 W | Time - LOC | 2024     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 34.40          | 0.10           | 0.01          | --            |
| 20        | 27.40        | 34.35          | 0.10           | 0.02          | 5.07          |
| 40        | 22.14        | 34.33          | 0.13           | 0.03          | 5.62          |
| 60        | 19.23        | 34.06          | 0.24           | 0.07          | 6.26          |
| 80        | 17.69        | 34.10          | 0.37           | 0.25          | 4.74          |
| 100       | 15.10        | 34.02          | 0.25           | 0.24          | 3.51          |
| 125       | 13.31        | 34.15          | 0.13           | 0.18          | 2.65          |
| 150       | 12.62        | 34.42          | 0.05           | 0.06          | 1.40          |
| 200       | 11.75        | 34.67          | --             | --            | 0.56          |
| 350       | 9.52         | 34.60          | --             | --            | 0.45          |
| 500       | 7.56         | 34.53          | --             | --            | 0.47          |
| 1000      | 4.39         | 34.53          | --             | --            | 0.84          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-004      | Date - GMT | 4 AUG 89 |
| Station Name | D891-004   | Time - GMT | 1152     |
| Latitude     | 17. 1.4 N  | Date - LOC | 4 AUG 89 |
| Longitude    | 116.54.8 W | Time - LOC | 0452     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 34.31          | 0.10           | 0.02          | --            |
| 20        | 27.69        | 34.34          | 0.08           | 0.02          | 5.14          |
| 40        | 22.88        | 34.37          | 0.03           | 0.13          | 5.99          |
| 60        | 19.74        | 34.21          | 0.23           | 0.12          | 5.97          |
| 80        | 17.84        | 34.08          | 0.37           | 0.41          | 5.57          |
| 100       | 14.51        | 34.15          | 0.19           | 0.38          | 3.66          |
| 125       | 13.20        | 34.42          | 0.05           | 0.11          | 2.32          |
| 150       | 12.95        | 34.59          | 0.01           | 0.06          | 0.94          |
| 200       | 11.85        | 34.70          | --             | --            | 0.55          |
| 350       | 9.61         | 34.62          | --             | --            | 0.57          |
| 500       | 7.74         | 34.54          | --             | --            | 0.60          |
| 1000      | 4.35         | 34.53          | --             | --            | 1.03          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-005      | Date - GMT | 5 AUG 89 |
| Station Name | D891-005   | Time - GMT | 0321     |
| Latitude     | 17.50.3 N  | Date - LOC | 4 AUG 89 |
| Longitude    | 115. 1.7 W | Time - LOC | 2021     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.90           | 34.45             | 0.10              | 0.03             | --               |
| 20           | 27.15           | 34.42             | --                | --               | 5.16             |
| 40           | 22.89           | 34.42             | 0.18              | 0.07             | 5.91             |
| 60           | 19.82           | 34.13             | 0.24              | 0.14             | 6.22             |
| 80           | 18.16           | 34.06             | 0.32              | 0.44             | 6.19             |
| 100          | 15.63           | 34.09             | 0.21              | 0.24             | 4.93             |
| 125          | 14.26           | 34.32             | 0.07              | 0.18             | 2.04             |
| 150          | 13.24           | 34.56             | 0.00              | 0.08             | 0.92             |
| 200          | 11.92           | 34.67             | --                | --               | 0.65             |
| 350          | 9.66            | 34.60             | --                | --               | 0.66             |
| 500          | 7.78            | 34.51             | --                | --               | 0.77             |
| 1000         | 4.50            | 34.54             | --                | --               | 1.13             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-006      | Date - GMT | 5 AUG 89 |
| Station Name | D891-006   | Time - GMT | 1141     |
| Latitude     | 18.13.3 N  | Date - LOC | 5 AUG 89 |
| Longitude    | 113.51.3 W | Time - LOC | 0441     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.10           | 34.49             | 0.09              | 0.04             | --               |
| 20           | 27.43           | 34.49             | 0.10              | 0.04             | 5.52             |
| 40           | 23.21           | 34.38             | 0.21              | 0.09             | 6.09             |
| 60           | 19.58           | 34.17             | 0.44              | 0.42             | 6.18             |
| 80           | 17.08           | 34.18             | 0.26              | 0.51             | 4.59             |
| 100          | 15.54           | 34.29             | 0.11              | 0.32             | 2.88             |
| 125          | 13.64           | 34.55             | 0.04              | 0.09             | 1.52             |
| 150          | 12.83           | 34.66             | 0.00              | 0.09             | 0.76             |
| 200          | 11.79           | 34.71             | --                | --               | 0.68             |
| 350          | 9.80            | 34.62             | --                | --               | 0.72             |
| 500          | 7.70            | 34.54             | --                | --               | 0.18             |
| 1000         | --              | --                | --                | --               | --               |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-007      | Date - GMT | 6 AUG 89 |
| Station Name | D891-007   | Time - GMT | 0845     |
| Latitude     | 19. 8.1 N  | Date - LOC | 6 AUG 89 |
| Longitude    | 111.23.8 W | Time - LOC | 0145     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.80           | 34.46             | 0.08              | 0.03             | --               |
| 20           | 25.20           | 34.44             | 0.09              | 0.03             | 5.55             |
| 40           | 22.06           | 34.20             | 0.09              | 0.06             | 5.84             |
| 60           | 17.49           | 34.03             | 0.40              | 0.25             | 5.72             |
| 80           | 15.52           | 34.10             | 0.39              | 0.42             | 5.21             |
| 100          | 14.83           | 34.50             | 0.11              | 0.32             | 2.07             |
| 125          | 13.86           | 34.64             | 0.03              | 0.12             | 0.63             |
| 150          | 12.75           | 34.68             | 0.00              | 0.05             | 0.56             |
| 200          | 11.93           | 34.74             | --                | --               | 0.43             |
| 350          | 9.60            | 34.64             | --                | --               | 0.42             |
| 500          | 7.78            | 34.55             | --                | --               | 0.15             |
| 1000         | 4.58            | 34.53             | --                | --               | 0.39             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-008      | Date - GMT | 7 AUG 89 |
| Station Name | D891-008   | Time - GMT | 0322     |
| Latitude     | 19.14.5 N  | Date - LOC | 6 AUG 89 |
| Longitude    | 109.58.5 W | Time - LOC | 2022     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 25.80           | 34.06             | 0.13              | 0.02             | --               |
| 20           | 21.81           | 34.08             | 0.12              | 0.02             | 5.74             |
| 40           | 21.03           | 34.04             | 0.15              | 0.04             | 5.71             |
| 60           | 18.88           | 33.95             | 0.42              | 0.21             | 5.97             |
| 80           | 15.19           | 34.05             | 0.43              | 0.41             | 4.55             |
| 100          | 13.77           | 34.36             | 0.13              | 0.26             | 3.09             |
| 125          | 13.22           | 34.58             | 0.02              | 0.08             | 1.09             |
| 150          | 12.68           | 34.69             | 0.00              | 0.03             | 0.64             |
| 200          | 11.84           | 34.72             | --                | --               | 0.48             |
| 350          | 9.36            | 34.59             | --                | --               | 0.47             |
| 500          | 7.49            | 34.54             | --                | --               | 0.26             |
| 1000         | 4.51            | 34.53             | --                | --               | 0.35             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-009      | Date - GMT | 7 AUG 89 |
| Station Name | D891-009   | Time - GMT | 1155     |
| Latitude     | 19. 9.3 N  | Date - LOC | 7 AUG 89 |
| Longitude    | 108.44.2 W | Time - LOC | 0455     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 25.00        | 33.92          | 0.19           | 0.06          | --            |
| 20        | 21.58        | 34.19          | 0.21           | 0.08          | 5.75          |
| 40        | 18.54        | 34.13          | 0.41           | 0.30          | 5.35          |
| 60        | 14.88        | 34.11          | 0.35           | 0.59          | 4.39          |
| 80        | 13.94        | 34.57          | 0.08           | 0.21          | 2.16          |
| 100       | 12.94        | 34.55          | 0.02           | 0.08          | 1.35          |
| 125       | 12.41        | 34.65          | 0.01           | 0.15          | 0.51          |
| 150       | 12.51        | 34.78          | 0.02           | 0.18          | 0.40          |
| 200       | 11.88        | 34.76          | --             | --            | 0.38          |
| 350       | 9.85         | 34.66          | --             | --            | 0.39          |
| 500       | 7.75         | 34.57          | --             | --            | 0.16          |
| 1000      | 4.50         | 34.54          | --             | --            | 0.33          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-010      | Date - GMT | 8 AUG 89 |
| Station Name | D891-010   | Time - GMT | 0316     |
| Latitude     | 18.38.4 N  | Date - LOC | 7 AUG 89 |
| Longitude    | 107.57.9 W | Time - LOC | 2016     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.90        | 33.93          | 0.13           | 0.04          | --            |
| 20        | 23.19        | 33.89          | 0.09           | 0.04          | 5.64          |
| 40        | 17.38        | 33.78          | 0.12           | 0.10          | 6.31          |
| 60        | 15.06        | 33.89          | 0.47           | 0.35          | 5.13          |
| 80        | 13.99        | 34.19          | 0.40           | 0.40          | 2.17          |
| 100       | 14.17        | 34.63          | 0.09           | 0.23          | 0.83          |
| 125       | 13.32        | 34.68          | 0.02           | 0.09          | 0.51          |
| 150       | 12.46        | 34.72          | 0.00           | 0.10          | 0.45          |
| 200       | 11.64        | 34.72          | --             | --            | 0.42          |
| 350       | 9.73         | 34.64          | --             | --            | 0.41          |
| 500       | 7.72         | 34.55          | --             | --            | 0.15          |
| 1000      | 4.46         | 34.55          | --             | --            | 0.34          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-011      | Date - GMT | 8 AUG 89 |
| Station Name | D891-011   | Time - GMT | 1140     |
| Latitude     | 17.47.1 N  | Date - LOC | 8 AUG 89 |
| Longitude    | 108.50.7 W | Time - LOC | 0440     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.20           | 34.24             | 0.11              | 0.05             | --               |
| 20           | 26.52           | 34.46             | 0.10              | 0.05             | 5.43             |
| 40           | 23.57           | 34.34             | 0.17              | 0.11             | 6.30             |
| 60           | 18.19           | 34.16             | 0.34              | 0.50             | 4.20             |
| 80           | 16.57           | 34.39             | 0.27              | 0.58             | 2.27             |
| 100          | 14.74           | 34.53             | 0.06              | 0.28             | 0.87             |
| 125          | 13.61           | 34.68             | 0.02              | 0.13             | 0.48             |
| 150          | 12.88           | 34.73             | 0.00              | 0.14             | 0.44             |
| 200          | 11.85           | 34.72             | --                | --               | 0.42             |
| 350          | 9.74            | 34.64             | --                | --               | 0.43             |
| 500          | 7.57            | 34.53             | --                | --               | 0.14             |
| 1000         | 4.44            | 34.55             | --                | --               | 0.41             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-012      | Date - GMT | 9 AUG 89 |
| Station Name | D891-012   | Time - GMT | 0320     |
| Latitude     | 16.19.8 N  | Date - LOC | 8 AUG 89 |
| Longitude    | 110.33.7 W | Time - LOC | 2020     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 29.00           | 34.14             | 0.09              | 0.03             | --               |
| 20           | 28.67           | 34.17             | 0.09              | 0.05             | 5.35             |
| 40           | 26.90           | 34.13             | 0.15              | 0.09             | 6.29             |
| 60           | 24.59           | 34.29             | 0.26              | 0.21             | 5.98             |
| 80           | 20.34           | 34.34             | 0.51              | 0.59             | 4.51             |
| 100          | 17.45           | 34.42             | 0.11              | 0.42             | 2.17             |
| 125          | 15.61           | 34.51             | 0.07              | 0.27             | 1.05             |
| 150          | 13.87           | 34.67             | 0.00              | 0.21             | 0.47             |
| 200          | 12.16           | 34.76             | --                | --               | 0.46             |
| 350          | 10.08           | 34.66             | --                | --               | 0.47             |
| 500          | 8.03            | 34.57             | --                | --               | 0.22             |
| 1000         | 4.39            | 34.55             | --                | --               | 0.52             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 1-013      | Date - GMT | 9 AUG 89 |
| Station Name | D891-013   | Time - GMT | 1152     |
| Latitude     | 15.30.0 N  | Date - LOC | 9 AUG 89 |
| Longitude    | 111.27.7 W | Time - LOC | 0452     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.00        | 34.16          | 0.12           | 0.06          | --            |
| 20        | 28.90        | 34.21          | 0.11           | 0.06          | 5.32          |
| 40        | 24.20        | 34.41          | 0.28           | 0.16          | 6.06          |
| 60        | 20.90        | 34.33          | 0.51           | 0.49          | 5.35          |
| 80        | 16.70        | 34.43          | 0.30           | 0.67          | 2.25          |
| 100       | 15.38        | 34.58          | 0.10           | 0.57          | 0.85          |
| 125       | 13.68        | 34.74          | 0.00           | 0.55          | 0.41          |
| 150       | 13.07        | 34.78          | 0.00           | 0.53          | 0.43          |
| 200       | 12.00        | 34.78          | --             | --            | 0.42          |
| 350       | 9.85         | 34.67          | --             | --            | 0.43          |
| 500       | 7.84         | 34.58          | --             | --            | 0.17          |
| 1000      | 4.38         | 34.55          | --             | --            | 0.43          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-014      | Date - GMT | 12 AUG 89 |
| Station Name | D891-014   | Time - GMT | 1149      |
| Latitude     | 18. 1.8 N  | Date - LOC | 12 AUG 89 |
| Longitude    | 105.22.3 W | Time - LOC | 0449      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.50        | 34.14          | 0.11           | 0.06          | --            |
| 20        | 28.50        | 34.24          | 0.12           | 0.08          | 5.48          |
| 40        | 25.90        | 34.45          | 0.19           | 0.15          | 5.70          |
| 60        | 21.50        | 34.39          | 0.36           | 0.57          | 5.48          |
| 80        | 17.39        | 34.47          | 0.23           | 0.77          | 1.44          |
| 100       | 15.24        | 34.66          | 0.02           | 0.32          | 0.64          |
| 125       | 13.68        | 34.76          | 0.00           | 0.82          | 0.61          |
| 150       | 12.97        | 34.80          | 0.00           | 0.43          | 0.63          |
| 200       | 12.19        | 34.78          | --             | --            | 0.64          |
| 350       | 9.99         | 34.65          | --             | --            | 0.69          |
| 500       | 8.08         | 34.56          | --             | --            | 0.17          |
| 1000      | 4.76         | 34.54          | --             | --            | 0.27          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-015      | Date - GMT | 13 AUG 89 |
| Station Name | D891-015   | Time - GMT | 0321      |
| Latitude     | 16.50.4 N  | Date - LOC | 12 AUG 89 |
| Longitude    | 106.38.0 W | Time - LOC | 2021      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.10        | 34.06          | 0.07           | 0.08          | --            |
| 20        | 28.23        | 34.26          | 0.08           | 0.03          | 5.46          |
| 40        | 25.00        | 34.12          | 0.13           | 0.05          | 5.97          |
| 60        | 20.63        | 34.27          | 0.54           | 0.35          | 5.72          |
| 80        | 17.47        | 34.43          | 0.31           | 0.59          | 2.36          |
| 100       | 15.31        | 34.53          | 0.09           | 0.39          | 1.16          |
| 125       | 13.49        | 34.75          | 0.00           | 0.31          | 0.54          |
| 150       | 12.80        | 34.79          | 0.00           | 0.43          | 0.54          |
| 200       | 11.89        | 34.75          | --             | --            | 0.55          |
| 350       | 9.90         | 34.66          | --             | --            | 0.57          |
| 500       | 7.77         | 34.58          | --             | --            | 0.18          |
| 1000      | 4.63         | 34.55          | --             | --            | 0.34          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-016      | Date - GMT | 13 AUG 89 |
| Station Name | D891-016   | Time - GMT | 1158      |
| Latitude     | 16. 3.8 N  | Date - LOC | 13 AUG 89 |
| Longitude    | 107.27.1 W | Time - LOC | 0458      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.00        | 34.02          | 0.11           | 0.05          | --            |
| 20        | 28.40        | 34.23          | 0.10           | 0.03          | 5.48          |
| 40        | 25.68        | 34.33          | 0.15           | 0.09          | 5.64          |
| 60        | 21.84        | 34.39          | 0.35           | 0.38          | 5.41          |
| 80        | 18.69        | 34.43          | 0.40           | 0.54          | 3.67          |
| 100       | 16.04        | 34.53          | 0.07           | 0.55          | 1.12          |
| 125       | 14.28        | 34.64          | 0.01           | 0.20          | 0.47          |
| 150       | 13.31        | 34.75          | 0.00           | 0.40          | 0.36          |
| 200       | 12.23        | 34.77          | --             | --            | 0.38          |
| 350       | 10.03        | 34.67          | --             | --            | 0.42          |
| 500       | 7.88         | 34.57          | --             | --            | 0.19          |
| 1000      | 4.46         | 34.55          | --             | --            | 0.52          |



|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-017      | Date - GMT | 14 AUG 89 |
| Station Name | D891-017   | Time - GMT | 0318      |
| Latitude     | 14.36.8 N  | Date - LOC | 13 AUG 89 |
| Longitude    | 109.10.1 W | Time - LOC | 2018      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.70        | 34.16          | 0.11           | 0.06          | --            |
| 20        | 28.47        | 34.21          | 0.12           | 0.04          | 5.38          |
| 40        | 26.56        | 34.36          | 0.23           | 0.10          | 6.12          |
| 60        | 22.21        | 34.35          | 0.45           | 0.30          | 5.79          |
| 80        | 18.34        | 34.33          | 0.32           | 0.59          | 3.42          |
| 100       | 15.80        | 34.46          | 0.13           | 0.38          | 1.40          |
| 125       | 13.72        | 34.69          | 0.00           | 0.23          | 0.52          |
| 150       | 12.92        | 34.73          | 0.00           | 0.38          | 0.53          |
| 200       | 11.74        | 34.72          | --             | --            | 0.55          |
| 350       | 10.04        | 34.67          | --             | --            | 0.59          |
| 500       | 7.98         | 34.57          | --             | --            | 0.30          |
| 1000      | 4.38         | 34.54          | --             | --            | 0.47          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-018      | Date - GMT | 14 AUG 89 |
| Station Name | D891-018   | Time - GMT | 1155      |
| Latitude     | 13.39.5 N  | Date - LOC | 14 AUG 89 |
| Longitude    | 109.56.2 W | Time - LOC | 0455      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.60        | 34.03          | 0.14           | 0.08          | --            |
| 20        | 28.50        | 34.10          | 0.14           | 0.07          | 5.32          |
| 40        | 26.03        | 34.34          | 0.26           | 0.13          | 5.33          |
| 60        | 23.50        | 34.43          | 0.44           | 0.34          | 5.40          |
| 80        | 18.77        | 34.34          | 0.38           | 0.47          | 3.72          |
| 100       | 16.14        | 34.44          | 0.17           | 0.38          | 1.94          |
| 125       | 14.01        | 34.71          | 0.00           | 0.27          | 0.54          |
| 150       | 13.11        | 34.79          | 0.00           | 0.33          | 0.55          |
| 200       | 12.13        | 34.78          | --             | --            | 0.60          |
| 350       | 9.99         | 34.67          | --             | --            | 0.60          |
| 500       | 8.06         | 34.58          | --             | --            | 0.25          |
| 1000      | 4.50         | 34.55          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-019      | Date - GMT | 15 AUG 89 |
| Station Name | D891-019   | Time - GMT | 0322      |
| Latitude     | 13.21.9 N  | Date - LOC | 14 AUG 89 |
| Longitude    | 112. 4.5 W | Time - LOC | 2022      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.70        | 33.80          | 0.13           | 0.07          | --            |
| 20        | 28.05        | 34.22          | 0.17           | 0.09          | 5.44          |
| 40        | 26.23        | 34.22          | 0.22           | 0.11          | 5.54          |
| 60        | 23.74        | 34.34          | 0.33           | 0.41          | 5.28          |
| 80        | 20.50        | 34.38          | 0.28           | 0.42          | 4.90          |
| 100       | 17.72        | 34.59          | 0.13           | 0.30          | 1.09          |
| 125       | 14.80        | 34.74          | 0.00           | 0.43          | 0.39          |
| 150       | 13.31        | 34.76          | 0.00           | 0.12          | 0.42          |
| 200       | 12.17        | 34.76          | --             | --            | 0.41          |
| 350       | 10.11        | 34.68          | --             | --            | 0.46          |
| 500       | 7.84         | 34.56          | --             | --            | 0.31          |
| 1000      | 4.45         | 34.55          | --             | --            | 0.48          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-020      | Date - GMT | 15 AUG 89 |
| Station Name | D891-020   | Time - GMT | 1150      |
| Latitude     | 13.18.4 N  | Date - LOC | 15 AUG 89 |
| Longitude    | 113.13.3 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.70        | 33.81          | 0.10           | 0.05          | --            |
| 20        | 28.24        | 34.23          | 0.14           | 0.05          | 5.26          |
| 40        | 26.15        | 34.31          | 0.17           | 0.10          | 5.45          |
| 60        | 24.02        | 34.53          | 0.44           | 0.41          | 5.44          |
| 80        | 20.62        | 34.51          | 0.33           | 0.39          | 5.93          |
| 100       | 18.08        | 34.36          | 0.19           | 0.35          | 4.68          |
| 125       | 14.70        | 34.76          | 0.00           | 0.48          | 0.36          |
| 150       | 13.34        | 34.78          | 0.00           | 0.26          | 0.36          |
| 200       | 12.18        | 34.79          | --             | --            | 0.36          |
| 350       | 10.22        | 34.66          | --             | --            | 0.38          |
| 500       | 8.06         | 34.57          | --             | --            | 0.15          |
| 1000      | 4.45         | 34.55          | --             | --            | 0.54          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-021      | Date - GMT | 16 AUG 89 |
| Station Name | D891-021   | Time - GMT | 0319      |
| Latitude     | 12.45.5 N  | Date - LOC | 15 AUG 89 |
| Longitude    | 115.34.2 W | Time - LOC | 2019      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.80        | 33.72          | 0.12           | 0.04          | --            |
| 20        | 28.57        | 33.77          | 0.11           | 0.05          | 5.31          |
| 40        | 26.83        | 34.33          | 0.21           | 0.09          | 4.83          |
| 60        | 23.96        | 34.26          | 0.48           | 0.47          | 4.68          |
| 80        | 19.17        | 34.32          | 0.21           | 0.39          | 3.34          |
| 100       | 15.39        | 34.64          | 0.05           | 0.28          | 0.68          |
| 125       | 14.05        | 34.74          | 0.00           | 0.81          | 0.44          |
| 150       | 13.11        | 34.76          | 0.00           | 0.35          | 0.41          |
| 200       | 11.76        | 34.76          | --             | --            | 0.42          |
| 350       | 9.89         | 34.64          | --             | --            | 0.39          |
| 500       | 7.85         | 34.56          | --             | --            | 0.19          |
| 1000      | 4.50         | 34.55          | --             | --            | 0.54          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-022      | Date - GMT | 16 AUG 89 |
| Station Name | D891-022   | Time - GMT | 1152      |
| Latitude     | 12.27.9 N  | Date - LOC | 16 AUG 89 |
| Longitude    | 116.47.3 W | Time - LOC | 0452      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.40        | 33.58          | 0.13           | 0.07          | --            |
| 20        | 28.26        | 33.73          | 0.17           | 0.08          | 5.28          |
| 40        | 27.27        | 34.23          | 0.23           | 0.12          | 4.70          |
| 60        | 24.75        | 34.23          | 0.36           | 0.47          | 4.46          |
| 80        | 19.15        | 34.36          | 0.19           | 0.41          | 4.16          |
| 100       | 15.72        | 34.65          | 0.05           | 0.34          | 0.65          |
| 125       | 13.79        | 34.77          | 0.00           | 0.33          | 0.42          |
| 150       | 12.91        | 34.78          | 0.00           | 0.16          | 0.38          |
| 200       | 11.80        | 34.74          | --             | --            | 0.37          |
| 350       | 9.93         | 34.66          | --             | --            | 0.36          |
| 500       | 7.98         | 34.57          | --             | --            | --            |
| 1000      | 4.52         | 34.56          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-023      | Date - GMT | 17 AUG 89 |
| Station Name | D891-023   | Time - GMT | 0318      |
| Latitude     | 11.56.3 N  | Date - LOC | 16 AUG 89 |
| Longitude    | 119.13.4 W | Time - LOC | 2018      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.20        | 33.33          | 0.38           | 0.10          | --            |
| 20        | 27.99        | 33.39          | 0.38           | 0.09          | 5.56          |
| 40        | 20.96        | 34.55          | 0.65           | 0.41          | 2.39          |
| 60        | 15.49        | 34.72          | 0.13           | 0.54          | 1.44          |
| 80        | 13.65        | 34.68          | 0.02           | 0.32          | --            |
| 100       | 13.38        | 34.78          | 0.00           | 0.32          | --            |
| 125       | 12.52        | 34.78          | 0.00           | 0.09          | --            |
| 150       | 12.05        | 34.76          | 0.00           | 0.09          | --            |
| 200       | 11.26        | 34.74          | --             | --            | --            |
| 350       | 9.58         | 34.63          | --             | --            | --            |
| 500       | 7.62         | 34.55          | --             | --            | 0.51          |
| 1000      | 4.45         | 34.55          | --             | --            | 0.79          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-024      | Date - GMT | 17 AUG 89 |
| Station Name | D891-024   | Time - GMT | 1151      |
| Latitude     | 11.14.4 N  | Date - LOC | 17 AUG 89 |
| Longitude    | 118.17.3 W | Time - LOC | 0451      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.10        | 33.19          | 0.28           | 0.12          | --            |
| 20        | 26.93        | 33.95          | 0.43           | 0.29          | 5.34          |
| 40        | 19.24        | 34.53          | 0.33           | 0.51          | 2.53          |
| 60        | 14.79        | 34.70          | 0.07           | 0.42          | 1.29          |
| 80        | 13.56        | 34.76          | 0.03           | 0.34          | 0.47          |
| 100       | 12.90        | 34.77          | 0.02           | 0.14          | 0.50          |
| 125       | 12.43        | 34.79          | 0.00           | 0.07          | 0.52          |
| 150       | 11.99        | 34.77          | 0.00           | 0.07          | 0.69          |
| 200       | 11.50        | 34.75          | --             | --            | 0.68          |
| 350       | 10.11        | 34.69          | --             | --            | 0.43          |
| 500       | 8.42         | 34.59          | --             | --            | 0.44          |
| 1000      | 4.43         | 34.55          | --             | --            | 1.15          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-025      | Date - GMT | 18 AUG 89 |
| Station Name | D891-025   | Time - GMT | 0321      |
| Latitude     | 9.41.8 N   | Date - LOC | 17 AUG 89 |
| Longitude    | 117. 2.8 W | Time - LOC | 2021      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.80        | 33.20          | 0.16           | 0.07          | --            |
| 20        | 27.54        | 33.25          | 0.15           | 0.08          | 5.47          |
| 40        | 27.40        | 33.92          | 0.44           | 0.26          | 4.75          |
| 60        | 21.43        | 34.53          | 0.32           | 0.46          | 2.88          |
| 80        | 16.31        | 34.63          | 0.23           | 0.44          | 1.86          |
| 100       | 14.55        | 34.64          | 0.12           | 0.26          | 0.92          |
| 125       | 13.14        | 34.78          | 0.10           | 0.26          | 0.61          |
| 150       | 12.39        | 34.77          | 0.02           | 0.07          | 0.70          |
| 200       | 11.44        | 34.74          | --             | --            | 0.71          |
| 350       | 10.01        | 34.68          | --             | --            | 0.49          |
| 500       | 8.23         | 34.58          | --             | --            | 0.33          |
| 1000      | 4.48         | 34.56          | --             | --            | 1.38          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-026      | Date - GMT | 18 AUG 89 |
| Station Name | D891-026   | Time - GMT | 1151      |
| Latitude     | 8.51.3 N   | Date - LOC | 18 AUG 89 |
| Longitude    | 116.42.8 W | Time - LOC | 0451      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.60        | 33.41          | 0.17           | 0.10          | --            |
| 20        | 27.41        | 33.46          | 0.19           | 0.08          | 5.57          |
| 40        | 27.43        | 33.55          | 0.30           | 0.16          | 4.54          |
| 60        | 27.26        | 33.74          | 0.37           | 0.51          | 4.45          |
| 80        | 20.00        | 34.74          | 0.24           | 0.48          | 3.02          |
| 100       | 15.86        | 34.67          | 0.05           | 0.41          | 2.06          |
| 125       | 13.63        | 34.77          | 0.01           | 0.17          | 0.48          |
| 150       | 12.63        | 34.72          | 0.00           | 0.13          | 0.47          |
| 200       | 11.76        | 34.76          | --             | --            | 0.66          |
| 350       | 10.04        | 34.69          | --             | --            | 0.45          |
| 500       | 8.30         | 34.58          | --             | --            | 0.42          |
| 1000      | 4.34         | 34.56          | --             | --            | 1.29          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-027      | Date - GMT | 20 AUG 89 |
| Station Name | D891-027   | Time - GMT | 0346      |
| Latitude     | 7.55.0 N   | Date - LOC | 19 AUG 89 |
| Longitude    | 110.46.6 W | Time - LOC | 2046      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.50        | 33.28          | 0.14           | 0.07          | --            |
| 20        | --           | --             | --             | --            | --            |
| 40        | --           | --             | 0.26           | 0.10          | --            |
| 60        | --           | --             | 0.40           | 0.25          | --            |
| 80        | --           | --             | 0.41           | 0.22          | --            |
| 100       | --           | --             | 0.05           | 0.13          | --            |
| 125       | --           | --             | 0.01           | 0.10          | --            |
| 150       | --           | --             | 0.01           | 0.06          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|------------|------------|-----------|
| Station No.  | 1-028      | Date - GMT | 20 AUG 89 |
| Station Name | D891-028   | Time - GMT | 1145      |
| Latitude     | 8. 7.4 N   | Date - LOC | 20 AUG 89 |
| Longitude    | 109.34.5 W | Time - LOC | 0445      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.20        | 33.46          | 0.14           | 0.09          | --            |
| 20        | --           | --             | 0.15           | 0.09          | --            |
| 40        | --           | --             | 0.20           | 0.10          | --            |
| 60        | --           | --             | 0.38           | 0.66          | --            |
| 80        | --           | --             | 0.08           | 0.21          | --            |
| 100       | --           | --             | 0.05           | 0.07          | --            |
| 125       | --           | --             | 0.01           | 0.10          | --            |
| 150       | --           | --             | 0.00           | 0.09          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|------------|------------|-----------|
| Station No.  | 1-029      | Date - GMT | 21 AUG 89 |
| Station Name | D891-029   | Time - GMT | 0224      |
| Latitude     | 8.22.6 N   | Date - LOC | 20 AUG 89 |
| Longitude    | 107.35.9 W | Time - LOC | 1924      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 31.92          | 0.13           | 0.07          | --            |
| 20        | 27.55        | 32.99          | 0.16           | 0.08          | 5.43          |
| 40        | 27.73        | 33.87          | 0.36           | 0.31          | 4.62          |
| 60        | 20.60        | 34.61          | 0.21           | 0.82          | 2.66          |
| 80        | 15.68        | 34.73          | 0.17           | 0.24          | 0.93          |
| 100       | 13.66        | 34.85          | 0.06           | 0.20          | 0.88          |
| 125       | 13.11        | 34.84          | 0.00           | 0.07          | 0.78          |
| 150       | 12.76        | 34.83          | 0.00           | 0.07          | 0.76          |
| 200       | 12.13        | 34.77          | --             | --            | 0.85          |
| 350       | 10.60        | 34.72          | --             | --            | 0.94          |
| 500       | 8.12         | 34.61          | --             | --            | 0.29          |
| 1000      | 4.42         | 34.56          | --             | --            | 0.90          |

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|--------------|------------|------------|-----------|
| Station No.  | 1-030      | Date - GMT | 21 AUG 89 |
| Station Name | D891-030   | Time - GMT | 1144      |
| Latitude     | 8.47.1 N   | Date - LOC | 21 AUG 89 |
| Longitude    | 106.21.0 W | Time - LOC | 0444      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.80        | 33.11          | 0.14           | 0.08          | --            |
| 20        | 27.71        | 33.29          | 0.17           | 0.09          | 5.37          |
| 40        | 27.05        | 33.89          | 0.17           | 0.09          | --            |
| 60        | 19.73        | 34.56          | 0.40           | 0.43          | --            |
| 80        | 14.79        | 34.67          | 0.31           | 0.66          | --            |
| 100       | 13.78        | 34.80          | 0.11           | 0.30          | --            |
| 125       | 12.96        | 34.82          | 0.02           | 0.09          | --            |
| 150       | --           | --             | 0.00           | 0.05          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | 0.43          |
| 500       | --           | --             | --             | --            | 0.91          |
| 1000      | --           | --             | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-031      | Date - GMT | 22 AUG 89 |
| Station Name | D891-031   | Time - GMT | 0223      |
| Latitude     | 9.53.6 N   | Date - LOC | 21 AUG 89 |
| Longitude    | 104.38.2 W | Time - LOC | 2023      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.80        | 33.31          | 0.18           | 0.08          | --            |
| 20        | 28.61        | 33.40          | 0.22           | 0.11          | --            |
| 40        | 21.62        | 34.38          | 0.42           | 0.69          | 4.74          |
| 60        | 18.24        | 34.55          | 0.18           | 0.33          | 1.21          |
| 80        | 15.43        | 34.67          | 0.04           | 0.33          | 0.77          |
| 100       | 13.60        | 34.79          | 0.01           | 0.18          | 0.46          |
| 125       | 13.04        | 34.79          | 0.00           | 0.08          | 0.44          |
| 150       | 12.36        | 34.78          | 0.00           | 0.07          | 0.46          |
| 200       | 11.53        | 34.75          | --             | --            | 0.59          |
| 350       | 9.78         | 34.66          | --             | --            | 0.55          |
| 500       | 7.95         | 34.56          | --             | --            | 0.49          |
| 1000      | 4.34         | 34.56          | --             | --            | 1.20          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-032      | Date - GMT | 22 AUG 89 |
| Station Name | D891-032   | Time - GMT | 1041      |
| Latitude     | 10.30.5 N  | Date - LOC | 22 AUG 89 |
| Longitude    | 103.44.7 W | Time - LOC | 0441      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.90        | 33.42          | 0.15           | 0.08          | --            |
| 20        | --           | --             | 0.22           | 0.11          | --            |
| 40        | --           | --             | 0.48           | 0.46          | --            |
| 60        | --           | --             | 0.22           | 0.41          | --            |
| 80        | --           | --             | 0.01           | 0.34          | --            |
| 100       | --           | --             | 0.00           | 0.33          | --            |
| 125       | --           | --             | 0.00           | 0.13          | --            |
| 150       | --           | --             | 0.00           | 0.09          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |



|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-033      | Date - GMT | 23 AUG 89 |
| Station Name | D891-033   | Time - GMT | 0220      |
| Latitude     | 11.33.9 N  | Date - LOC | 22 AUG 89 |
| Longitude    | 102. 0.9 W | Time - LOC | 2020      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.65          | 0.14           | 0.06          | --            |
| 20        | 28.76        | 33.76          | 0.27           | 0.10          | --            |
| 40        | 21.68        | 34.47          | 0.60           | 0.98          | 3.78          |
| 60        | 17.55        | 34.59          | 0.25           | 0.51          | 1.28          |
| 80        | 15.36        | 34.73          | 0.02           | 0.34          | 0.54          |
| 100       | 14.00        | 34.74          | 0.00           | 0.54          | 0.40          |
| 125       | 13.18        | 34.80          | 0.04           | 0.18          | 0.39          |
| 150       | 12.74        | 34.77          | 0.00           | 0.18          | 0.38          |
| 200       | 11.82        | 34.76          | --             | --            | 0.37          |
| 350       | 9.81         | 34.67          | --             | --            | 0.42          |
| 500       | 7.80         | 34.57          | --             | --            | 0.25          |
| 1000      | 4.56         | 34.55          | --             | --            | 0.63          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 1-034      | Date - GMT | 23 AUG 89 |
| Station Name | D891-034   | Time - GMT | 1044      |
| Latitude     | 11.48.4 N  | Date - LOC | 23 AUG 89 |
| Longitude    | 100.56.6 W | Time - LOC | 0444      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.68          | 0.13           | 0.06          | --            |
| 20        | 28.92        | 33.76          | 0.25           | 0.42          | 5.62          |
| 40        | 26.58        | 34.33          | 0.51           | 0.43          | 4.61          |
| 60        | 18.50        | 34.53          | 0.22           | 0.81          | 2.22          |
| 80        | 15.94        | 34.70          | 0.09           | 0.22          | 1.06          |
| 100       | 13.94        | 34.76          | 0.02           | 0.21          | 0.57          |
| 125       | 13.18        | 34.83          | 0.00           | 0.24          | 0.37          |
| 150       | 12.49        | 34.80          | 0.00           | 0.10          | 0.38          |
| 200       | 11.81        | 34.77          | --             | --            | 0.48          |
| 350       | 10.17        | 34.69          | --             | --            | 0.43          |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 1-035     | Date - GMT | 24 AUG 89 |
| Station Name | D891-035  | Time - GMT | 0221      |
| Latitude     | 12. 2.6 N | Date - LOC | 23 AUG 89 |
| Longitude    | 99.33.7 W | Time - LOC | 2021      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 30.00        | 33.52          | 0.16           | 0.08          | --            |
| 20        | 29.29        | 33.69          | 0.40           | 0.28          | 5.23          |
| 40        | 23.06        | 34.37          | 0.44           | 0.67          | 3.49          |
| 60        | 18.12        | 34.54          | 0.14           | 0.21          | 1.36          |
| 80        | 15.01        | 34.74          | 0.08           | 0.23          | 0.73          |
| 100       | 13.92        | 34.80          | 0.02           | 0.10          | 0.60          |
| 125       | 13.38        | 34.81          | 0.00           | 0.12          | 0.52          |
| 150       | 13.00        | 34.80          | 0.00           | 0.25          | 0.39          |
| 200       | 11.89        | 34.77          | --             | --            | 0.38          |
| 350       | 9.97         | 34.66          | --             | --            | 0.41          |
| 500       | 7.74         | 34.56          | --             | --            | 0.30          |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 1-036     | Date - GMT | 24 AUG 89 |
| Station Name | D891-036  | Time - GMT | 1039      |
| Latitude     | 12.14.5 N | Date - LOC | 24 AUG 89 |
| Longitude    | 98.30.9 W | Time - LOC | 0439      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.80        | 33.63          | 0.26           | 0.09          | --            |
| 20        | --           | --             | 0.58           | 0.27          | --            |
| 40        | --           | --             | 0.39           | 0.60          | --            |
| 60        | --           | --             | 0.16           | 0.53          | --            |
| 80        | --           | --             | 0.04           | 0.22          | --            |
| 100       | --           | --             | 0.00           | 0.47          | --            |
| 125       | --           | --             | 0.00           | 0.15          | --            |
| 150       | --           | --             | 0.00           | 0.10          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 1-037     | Date - GMT | 25 AUG 89 |
| Station Name | D891-037  | Time - GMT | 0211      |
| Latitude     | 12.37.6 N | Date - LOC | 24 AUG 89 |
| Longitude    | 96.32.6 W | Time - LOC | 2011      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 30.20        | 33.77          | 0.22           | 0.10          | --            |
| 20        | --           | --             | 0.91           | 0.57          | 5.04          |
| 40        | --           | --             | 0.43           | 1.30          | --            |
| 60        | --           | --             | 0.08           | 0.38          | --            |
| 80        | --           | --             | 0.02           | 0.25          | --            |
| 100       | --           | --             | 0.00           | 0.18          | --            |
| 125       | --           | --             | 0.00           | 0.10          | --            |
| 150       | --           | --             | 0.00           | 0.09          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 1-038     | Date - GMT | 25 AUG 89 |
| Station Name | D891-038  | Time - GMT | 1038      |
| Latitude     | 12.50.8 N | Date - LOC | 25 AUG 89 |
| Longitude    | 95.22.7 W | Time - LOC | 0438      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.90        | 33.88          | 0.17           | 0.11          | --            |
| 20        | --           | --             | 0.18           | 0.10          | --            |
| 40        | --           | --             | 0.46           | 0.71          | --            |
| 60        | --           | --             | 0.03           | 0.24          | --            |
| 80        | --           | --             | 0.00           | 0.18          | --            |
| 100       | --           | --             | 0.00           | 0.13          | --            |
| 125       | --           | --             | 0.00           | 0.08          | --            |
| 150       | --           | --             | 0.00           | 0.07          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 1-039     | Date - GMT | 26 AUG 89 |
| Station Name | D891-039  | Time - GMT | 0211      |
| Latitude     | 13.18.0 N | Date - LOC | 25 AUG 89 |
| Longitude    | 93.23.3 W | Time - LOC | 2011      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.30        | 33.31          | 0.56           | 0.25          | --            |
| 20        | --           | --             | 0.56           | 0.28          | --            |
| 40        | --           | --             | 0.32           | 0.32          | --            |
| 60        | --           | --             | 0.10           | 0.27          | --            |
| 80        | --           | --             | 0.03           | 0.16          | --            |
| 100       | --           | --             | 0.00           | 0.18          | --            |
| 125       | --           | --             | 0.00           | 0.11          | --            |
| 150       | --           | --             | 0.00           | 0.07          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|----------|
| Station No.  | 2-040     | Date - GMT | 4 SEP 89 |
| Station Name | D892-040  | Time - GMT | 0220     |
| Latitude     | 13.48.5 N | Date - LOC | 3 SEP 89 |
| Longitude    | 94.10.0 W | Time - LOC | 2020     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.60        | 33.62          | 0.29           | 0.15          | --            |
| 20        | 29.26        | 33.47          | --             | --            | --            |
| 40        | 21.93        | 34.40          | --             | --            | --            |
| 60        | 14.61        | 34.75          | --             | --            | --            |
| 80        | 13.96        | 34.78          | --             | --            | --            |
| 100       | 13.45        | 34.80          | --             | --            | --            |
| 125       | 12.78        | 34.81          | --             | --            | --            |
| 150       | 12.59        | 34.80          | --             | --            | --            |
| 200       | 11.84        | 34.77          | --             | --            | --            |
| 350       | 9.83         | 34.66          | --             | --            | --            |
| 500       | 7.81         | 34.58          | --             | --            | --            |
| 1000      | 4.44         | 34.54          | --             | --            | --            |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 2-041     | Date - GMT | 4 SEP 89 |
| Station Name | D892-041  | Time - GMT | 1050     |
| Latitude     | 13.56.1 N | Date - LOC | 4 SEP 89 |
| Longitude    | 95.21.5 W | Time - LOC | 0450     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.00        | 33.69          | 0.44           | 0.20          | --            |
| 20        | 28.52        | 33.75          | --             | --            | --            |
| 40        | 19.79        | 34.58          | --             | --            | --            |
| 60        | 15.19        | 34.72          | --             | --            | --            |
| 80        | 14.10        | 34.81          | --             | --            | --            |
| 100       | 13.34        | 34.82          | --             | --            | --            |
| 125       | 12.89        | 34.82          | --             | --            | --            |
| 150       | 12.65        | 34.80          | --             | --            | --            |
| 200       | 11.95        | 34.77          | --             | --            | --            |
| 350       | 9.95         | 34.64          | --             | --            | --            |
| 500       | 7.66         | 34.58          | --             | --            | --            |
| 1000      | 4.56         | 34.55          | --             | --            | --            |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 2-042     | Date - GMT | 5 SEP 89 |
| Station Name | D892-042  | Time - GMT | 0148     |
| Latitude     | 14. 3.5 N | Date - LOC | 4 SEP 89 |
| Longitude    | 97.14.9 W | Time - LOC | 1948     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.90        | 33.73          | 0.32           | 0.12          | --            |
| 20        | 29.12        | 33.78          | 1.00           | 0.87          | 3.88          |
| 40        | 26.03        | 34.31          | 0.17           | 0.35          | --            |
| 60        | 18.66        | 34.72          | 0.05           | 0.20          | --            |
| 80        | 15.54        | 34.74          | 0.01           | 0.33          | --            |
| 100       | 13.95        | 34.84          | 0.00           | 0.08          | --            |
| 125       | 13.30        | 34.83          | 0.00           | 0.06          | --            |
| 150       | 13.02        | 34.83          | 0.00           | 0.05          | --            |
| 200       | 12.29        | 34.80          | --             | --            | --            |
| 350       | 9.96         | 34.68          | --             | --            | --            |
| 500       | 7.81         | 34.59          | --             | --            | 0.39          |
| 1000      | 4.45         | 34.55          | --             | --            | --            |

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|--------------|-----------|------------|----------|
| Station No.  | 2-043     | Date - GMT | 5 SEP 89 |
| Station Name | D892-043  | Time - GMT | 1050     |
| Latitude     | 14.14.7 N | Date - LOC | 5 SEP 89 |
| Longitude    | 98.36.8 W | Time - LOC | 0450     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.20        | 33.47          | 0.22           | 0.10          | --            |
| 20        | 28.82        | 33.52          | 0.47           | 0.37          | 5.48          |
| 40        | 28.82        | 33.64          | 0.27           | 0.43          | --            |
| 60        | 24.27        | 34.39          | 0.07           | 0.24          | --            |
| 80        | 17.34        | 34.63          | 0.07           | 0.24          | --            |
| 100       | 14.02        | 34.83          | 0.00           | 0.49          | --            |
| 125       | 13.20        | 34.82          | 0.00           | 0.24          | --            |
| 150       | 12.98        | 34.81          | 0.00           | 0.10          | --            |
| 200       | 12.28        | 34.79          | --             | --            | --            |
| 350       | 10.40        | 34.69          | --             | --            | --            |
| 500       | 8.05         | 34.58          | --             | --            | 0.22          |
| 1000      | 4.43         | 34.55          | --             | --            | --            |

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|--------------|------------|------------|----------|
| Station No.  | 2-044      | Date - GMT | 6 SEP 89 |
| Station Name | D892-044   | Time - GMT | 0150     |
| Latitude     | 14.18.5 N  | Date - LOC | 5 SEP 89 |
| Longitude    | 100.27.4 W | Time - LOC | 1950     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.30        | 33.43          | 0.12           | 0.06          | --            |
| 20        | 28.73        | 33.48          | 0.15           | 0.07          | 5.22          |
| 40        | 28.64        | 33.58          | 0.23           | 0.14          | --            |
| 60        | 23.00        | 34.79          | 0.53           | 0.45          | --            |
| 80        | 17.42        | 34.64          | 0.13           | 0.25          | --            |
| 100       | 14.98        | 34.76          | 0.00           | 0.52          | --            |
| 125       | 13.92        | 34.82          | 0.00           | 0.25          | --            |
| 150       | 13.16        | 34.82          | 0.00           | 0.33          | --            |
| 200       | 12.24        | 34.80          | --             | --            | --            |
| 350       | 10.19        | 34.69          | --             | --            | --            |
| 500       | 8.21         | 33.41          | --             | --            | 0.20          |
| 1000      | 4.65         | 34.55          | --             | --            | --            |

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|--------------|------------|------------|----------|
| Station No.  | 2-045      | Date - GMT | 6 SEP 89 |
| Station Name | D892-045   | Time - GMT | 1049     |
| Latitude     | 14.35.5 N  | Date - LOC | 6 SEP 89 |
| Longitude    | 101.49.9 W | Time - LOC | 0449     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.90        | 33.57          | 0.16           | 0.10          | --            |
| 20        | 28.44        | 33.62          | 0.27           | 0.19          | 5.11          |
| 40        | 21.77        | 34.56          | 0.51           | 0.69          | --            |
| 60        | 17.47        | 34.54          | 0.22           | 0.34          | --            |
| 80        | 14.97        | 34.76          | 0.04           | 0.13          | --            |
| 100       | 13.47        | 34.78          | 0.00           | 0.60          | --            |
| 125       | 12.84        | 34.78          | 0.00           | 0.34          | --            |
| 150       | 12.27        | 34.78          | 0.00           | 0.25          | --            |
| 200       | 11.59        | 34.75          | --             | --            | --            |
| 350       | 10.19        | 34.68          | --             | --            | --            |
| 500       | 7.87         | 34.58          | --             | --            | 0.19          |
| 1000      | 4.70         | 34.55          | --             | --            | --            |

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|--------------|------------|------------|----------|
| Station No.  | 2-046      | Date - GMT | 7 SEP 89 |
| Station Name | D892-046   | Time - GMT | 0217     |
| Latitude     | 14.39.2 N  | Date - LOC | 6 SEP 89 |
| Longitude    | 102.14.2 W | Time - LOC | 2017     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.10        | 33.80          | 0.12           | 0.05          | --            |
| 20        | 28.53        | 33.80          | --             | --            | --            |
| 40        | 23.89        | 34.38          | --             | --            | --            |
| 60        | 17.90        | 34.48          | --             | --            | --            |
| 80        | 15.69        | 34.65          | --             | --            | --            |
| 100       | 14.77        | 34.79          | --             | --            | --            |
| 125       | 13.54        | 34.79          | --             | --            | --            |
| 150       | 12.71        | 34.76          | --             | --            | --            |
| 200       | 11.97        | 34.73          | --             | --            | --            |
| 350       | 9.92         | 34.65          | --             | --            | --            |
| 500       | 7.53         | 34.56          | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|------------|------------|----------|
| Station No.  | 2-047      | Date - GMT | 7 SEP 89 |
| Station Name | D892-047   | Time - GMT | 1115     |
| Latitude     | 15.33.9 N  | Date - LOC | 7 SEP 89 |
| Longitude    | 101.18.9 W | Time - LOC | 0515     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.93          | 0.14           | 0.09          | --            |
| 20        | --           | --             | 0.16           | 0.08          | --            |
| 40        | --           | --             | 0.45           | 0.58          | --            |
| 60        | --           | --             | 0.02           | 0.54          | --            |
| 80        | --           | --             | 0.00           | 0.62          | --            |
| 100       | --           | --             | 0.00           | 0.28          | --            |
| 125       | --           | --             | 0.00           | 0.28          | --            |
| 150       | --           | --             | 0.00           | 0.18          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|------------|------------|----------|
| Station No.  | 2-048      | Date - GMT | 8 SEP 89 |
| Station Name | D892-048   | Time - GMT | 0207     |
| Latitude     | 14.10.6 N  | Date - LOC | 7 SEP 89 |
| Longitude    | 100. 2.3 W | Time - LOC | 2007     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.48          | 0.16           | 0.05          | --            |
| 20        | --           | --             | 0.22           | 0.06          | --            |
| 40        | --           | --             | 0.50           | 0.24          | --            |
| 60        | --           | --             | 0.47           | 0.48          | --            |
| 80        | --           | --             | 0.08           | 0.26          | --            |
| 100       | --           | --             | 0.00           | 0.29          | --            |
| 125       | --           | --             | 0.00           | 0.26          | --            |
| 150       | --           | --             | 0.00           | 0.10          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |



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|--------------|-----------|------------|----------|
| Station No.  | 2-049     | Date - GMT | 8 SEP 89 |
| Station Name | D892-049  | Time - GMT | 1039     |
| Latitude     | 13.51.1 N | Date - LOC | 8 SEP 89 |
| Longitude    | 98.59.7 W | Time - LOC | 0439     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.20        | 33.57          | 0.26           | 0.17          | --            |
| 20        | --           | --             | 0.35           | 0.18          | --            |
| 40        | --           | --             | 0.58           | 0.34          | --            |
| 60        | --           | --             | 0.14           | 0.26          | --            |
| 80        | --           | --             | 0.07           | 0.17          | --            |
| 100       | --           | --             | 0.00           | 0.32          | --            |
| 125       | --           | --             | 0.00           | 0.14          | --            |
| 150       | --           | --             | 0.00           | 0.07          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|----------|
| Station No.  | 2-050     | Date - GMT | 9 SEP 89 |
| Station Name | D892-050  | Time - GMT | 0219     |
| Latitude     | 14.22.9 N | Date - LOC | 8 SEP 89 |
| Longitude    | 97.13.7 W | Time - LOC | 2019     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.60        | 33.69          | 0.31           | 0.14          | --            |
| 20        | 29.41        | 33.73          | 0.30           | 0.12          | 5.41          |
| 40        | 27.81        | 34.00          | 0.98           | 0.73          | --            |
| 60        | 17.58        | 34.75          | 0.18           | 0.33          | --            |
| 80        | 14.82        | 34.74          | 0.00           | 0.25          | --            |
| 100       | 13.86        | 34.82          | 0.00           | 0.26          | --            |
| 125       | 13.17        | 34.83          | 0.00           | 0.25          | --            |
| 150       | 12.67        | 34.81          | 0.00           | 0.21          | --            |
| 200       | 11.98        | 34.79          | --             | --            | --            |
| 350       | 9.97         | 34.69          | --             | --            | --            |
| 500       | 7.79         | 34.59          | --             | --            | 0.17          |
| 1000      | 4.50         | 34.55          | --             | --            | --            |

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|--------------|-----------|------------|----------|
| Station No.  | 2-051     | Date - GMT | 9 SEP 89 |
| Station Name | D892-051  | Time - GMT | 1048     |
| Latitude     | 15.30.3 N | Date - LOC | 9 SEP 89 |
| Longitude    | 97. 6.9 W | Time - LOC | 0448     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.80        | 32.94          | 0.16           | 0.06          | --            |
| 20        | 29.55        | 33.66          | 0.21           | 0.11          | 5.61          |
| 40        | 27.72        | 34.10          | 1.03           | 0.80          | --            |
| 60        | 18.85        | 34.69          | 0.29           | 0.32          | --            |
| 80        | 15.98        | 34.83          | 0.05           | 0.09          | --            |
| 100       | 14.70        | 34.83          | 0.01           | 0.15          | --            |
| 125       | 13.63        | 34.86          | 0.01           | 0.14          | --            |
| 150       | 13.19        | 34.87          | 0.00           | 0.08          | --            |
| 200       | 12.61        | 34.82          | --             | --            | --            |
| 350       | 10.40        | 34.71          | --             | --            | --            |
| 500       | 7.80         | 34.59          | --             | --            | 0.20          |
| 1000      | 4.43         | 34.55          | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 2-052     | Date - GMT | 10 SEP 89 |
| Station Name | D892-052  | Time - GMT | 0151      |
| Latitude     | 15.26.7 N | Date - LOC | 9 SEP 89  |
| Longitude    | 98.46.9 W | Time - LOC | 1951      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.10        | 33.52          | 0.36           | 0.12          | --            |
| 20        | 28.83        | 33.57          | 0.35           | 0.13          | 5.33          |
| 40        | 28.80        | 33.64          | 0.39           | 0.20          | --            |
| 60        | 22.93        | 34.42          | 0.35           | 0.49          | --            |
| 80        | 18.51        | 34.60          | 0.17           | 0.36          | --            |
| 100       | 14.17        | 34.82          | 0.00           | 0.37          | --            |
| 125       | 13.31        | 34.83          | 0.00           | 0.14          | --            |
| 150       | 12.77        | 34.81          | 0.00           | 0.12          | --            |
| 200       | 12.10        | 34.79          | --             | --            | --            |
| 350       | 10.04        | 34.68          | --             | --            | --            |
| 500       | 8.02         | 34.59          | --             | --            | 0.20          |
| 1000      | 4.48         | 34.55          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-053      | Date - GMT | 10 SEP 89 |
| Station Name | D892-053   | Time - GMT | 1049      |
| Latitude     | 15.15.3 N  | Date - LOC | 10 SEP 89 |
| Longitude    | 100. 1.0 W | Time - LOC | 0449      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.90           | 33.34             | 0.24              | 0.12             | --               |
| 20           | 28.72           | 33.39             | 0.24              | 0.12             | 5.39             |
| 40           | 28.90           | 33.87             | 0.34              | 0.19             | --               |
| 60           | 23.15           | 34.43             | 0.39              | 0.61             | --               |
| 80           | 17.41           | 34.68             | 0.16              | 0.29             | --               |
| 100          | 15.10           | 34.77             | 0.01              | 0.33             | --               |
| 125          | 13.27           | 34.81             | 0.00              | 0.64             | --               |
| 150          | 12.82           | 34.81             | 0.00              | 0.40             | --               |
| 200          | 12.19           | 34.79             | --                | --               | --               |
| 350          | 10.43           | 34.71             | --                | --               | --               |
| 500          | 8.49            | 34.61             | --                | --               | 0.23             |
| 1000         | 4.40            | 34.55             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-054      | Date - GMT | 15 SEP 89 |
| Station Name | D892-054   | Time - GMT | 0220      |
| Latitude     | 14.55.8 N  | Date - LOC | 14 SEP 89 |
| Longitude    | 101.24.7 W | Time - LOC | 2020      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.70           | 33.49             | 0.16              | 0.08             | --               |
| 20           | 28.18           | 33.56             | 0.17              | 0.15             | 5.36             |
| 40           | 23.53           | 34.44             | 0.61              | 0.56             | --               |
| 60           | 18.26           | 34.57             | 0.21              | 0.44             | --               |
| 80           | 15.51           | 34.75             | 0.02              | 0.26             | --               |
| 100          | 13.51           | 34.74             | 0.00              | 0.52             | --               |
| 125          | 12.67           | 34.78             | 0.00              | 0.28             | --               |
| 150          | 12.27           | 34.78             | 0.00              | 0.19             | --               |
| 200          | 11.69           | 34.76             | --                | --               | --               |
| 350          | 9.79            | 34.66             | --                | --               | --               |
| 500          | 7.94            | 34.58             | --                | --               | 0.17             |
| 1000         | 4.66            | 34.54             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-055      | Date - GMT | 15 SEP 89 |
| Station Name | D892-055   | Time - GMT | 1049      |
| Latitude     | 13.57.9 N  | Date - LOC | 15 SEP 89 |
| Longitude    | 102. 7.5 W | Time - LOC | 0449      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.70        | 33.72          | 0.15           | 0.07          | --            |
| 20        | 27.93        | 33.85          | 0.13           | 0.05          | 5.15          |
| 40        | 23.93        | 34.50          | 0.53           | 0.34          | --            |
| 60        | 17.70        | 34.73          | 0.25           | 0.54          | --            |
| 80        | 14.96        | 34.75          | 0.01           | 0.30          | --            |
| 100       | 13.53        | 34.81          | 0.00           | 0.85          | --            |
| 125       | 12.80        | 34.82          | 0.00           | 0.29          | --            |
| 150       | 12.41        | 34.80          | 0.00           | 0.10          | --            |
| 200       | 11.62        | 34.76          | --             | --            | --            |
| 350       | 9.87         | 34.67          | --             | --            | --            |
| 500       | 7.65         | 34.57          | --             | --            | --            |
| 1000      | 4.62         | 34.55          | --             | --            | 0.38          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-056      | Date - GMT | 16 SEP 89 |
| Station Name | D892-056   | Time - GMT | 0217      |
| Latitude     | 12. 6.6 N  | Date - LOC | 15 SEP 89 |
| Longitude    | 103.17.1 W | Time - LOC | 2017      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.00        | 33.54          | 0.12           | 0.04          | --            |
| 20        | 28.11        | 33.63          | 0.14           | 0.07          | 5.19          |
| 40        | 22.86        | 34.50          | 0.51           | 0.40          | --            |
| 60        | 17.66        | 34.66          | 0.38           | 0.59          | --            |
| 80        | 16.89        | 34.68          | 0.22           | 0.28          | --            |
| 100       | 15.53        | 34.74          | 0.05           | 0.10          | --            |
| 125       | 14.18        | 34.80          | 0.01           | 0.11          | --            |
| 150       | 13.06        | 34.82          | 0.00           | 0.10          | --            |
| 200       | 11.84        | 34.78          | --             | --            | --            |
| 350       | 10.41        | 34.70          | --             | --            | --            |
| 500       | 8.29         | 34.59          | --             | --            | 0.21          |
| 1000      | 4.58         | 34.55          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-057      | Date - GMT | 16 SEP 89 |
| Station Name | D892-057   | Time - GMT | 1048      |
| Latitude     | 11. 4.2 N  | Date - LOC | 16 SEP 89 |
| Longitude    | 104. 2.1 W | Time - LOC | 0448      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.40           | 33.76             | 0.17              | 0.09             | --               |
| 20           | 28.14           | 33.87             | 0.18              | 0.10             | 5.27             |
| 40           | 27.22           | 34.05             | 0.35              | 0.20             | --               |
| 60           | 20.34           | 34.54             | 0.31              | 0.64             | --               |
| 80           | 17.16           | 34.65             | 0.03              | 0.53             | --               |
| 100          | 14.58           | 34.80             | 0.00              | 0.20             | --               |
| 125          | 13.24           | 34.83             | 0.00              | 0.44             | --               |
| 150          | 12.55           | 34.80             | 0.00              | 0.28             | --               |
| 200          | 11.78           | 34.78             | --                | --               | --               |
| 350          | 9.82            | 34.66             | --                | --               | --               |
| 500          | 7.72            | 34.57             | --                | --               | --               |
| 1000         | 4.35            | 34.55             | --                | --               | 0.78             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-058      | Date - GMT | 18 SEP 89 |
| Station Name | D892-058   | Time - GMT | 0317      |
| Latitude     | 6.48.2 N   | Date - LOC | 17 SEP 89 |
| Longitude    | 107. 1.5 W | Time - LOC | 2017      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.50           | 33.04             | 0.15              | 0.05             | --               |
| 20           | 27.23           | 33.13             | 0.13              | 0.06             | 5.19             |
| 40           | 27.24           | 33.14             | 0.13              | 0.06             | --               |
| 60           | 20.48           | 34.72             | 0.30              | 0.59             | --               |
| 80           | 16.19           | 34.74             | 0.07              | 0.49             | --               |
| 100          | 13.79           | 34.74             | 0.11              | 0.26             | --               |
| 125          | 12.52           | 34.75             | 0.02              | 0.09             | --               |
| 150          | 11.92           | 34.71             | 0.01              | 0.04             | --               |
| 200          | 11.36           | 34.74             | --                | --               | --               |
| 350          | 9.87            | 34.68             | --                | --               | 0.52             |
| 500          | 7.90            | 34.60             | --                | --               | 0.39             |
| 1000         | 4.52            | 34.55             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-059      | Date - GMT | 18 SEP 89 |
| Station Name | D892-059   | Time - GMT | 1148      |
| Latitude     | 6.18.8 N   | Date - LOC | 18 SEP 89 |
| Longitude    | 107.53.9 W | Time - LOC | 0448      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.30           | 33.11             | 0.15              | 0.07             | --               |
| 20           | 27.13           | 33.21             | 0.15              | 0.07             | 5.30             |
| 40           | 27.14           | 33.23             | 0.15              | 0.28             | --               |
| 60           | 21.10           | 34.47             | 0.31              | 0.52             | --               |
| 80           | 16.00           | 34.72             | 0.19              | 0.35             | --               |
| 100          | 13.77           | 34.83             | 0.09              | 0.22             | --               |
| 125          | 13.00           | 34.82             | 0.02              | 0.10             | --               |
| 150          | 12.61           | 34.82             | 0.00              | 0.08             | --               |
| 200          | 11.59           | 34.77             | --                | --               | --               |
| 350          | 9.80            | 34.69             | --                | --               | --               |
| 500          | 7.92            | 34.60             | --                | --               | 0.31             |
| 1000         | 4.40            | 34.56             | --                | --               | 1.31             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-060      | Date - GMT | 19 SEP 89 |
| Station Name | D892-060   | Time - GMT | 0315      |
| Latitude     | 5.44.3 N   | Date - LOC | 18 SEP 89 |
| Longitude    | 109.50.4 W | Time - LOC | 2015      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.80           | 33.64             | 0.26              | 0.10             | --               |
| 20           | 26.67           | 33.74             | 0.28              | 0.12             | 5.28             |
| 40           | 26.68           | 33.74             | 0.27              | 0.10             | --               |
| 60           | 26.39           | 34.30             | 0.34              | 0.40             | --               |
| 80           | 23.76           | 34.35             | 0.25              | 0.44             | --               |
| 100          | 21.34           | 34.53             | 0.17              | 0.40             | --               |
| 125          | 14.22           | 34.79             | 0.05              | 0.16             | --               |
| 150          | 13.05           | 34.87             | 0.01              | 0.06             | --               |
| 200          | 11.79           | 34.78             | --                | --               | --               |
| 350          | 9.74            | 34.68             | --                | --               | --               |
| 500          | 8.41            | 34.63             | --                | --               | 0.33             |
| 1000         | 4.61            | 34.55             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-061      | Date - GMT | 19 SEP 89 |
| Station Name | D892-061   | Time - GMT | 1052      |
| Latitude     | 5. 0.0 N   | Date - LOC | 19 SEP 89 |
| Longitude    | 110. 2.9 W | Time - LOC | 0352      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 25.20           | 34.39             | 0.29              | 0.17             | --               |
| 20           | 24.84           | 34.49             | 0.31              | 0.16             | 5.27             |
| 40           | 24.48           | 34.51             | 0.30              | 0.22             | --               |
| 60           | 23.96           | 34.58             | 0.25              | 0.25             | --               |
| 80           | 23.45           | 34.64             | 0.21              | 0.21             | --               |
| 100          | 22.61           | 34.69             | 0.10              | 0.16             | --               |
| 125          | 18.01           | 34.67             | 0.09              | 0.21             | --               |
| 150          | 12.72           | 34.69             | 0.02              | 0.07             | --               |
| 200          | 11.35           | 34.73             | --                | --               | --               |
| 350          | 9.79            | 34.68             | --                | --               | --               |
| 500          | 8.32            | 34.63             | --                | --               | 0.38             |
| 1000         | 4.50            | 34.56             | --                | --               | 1.40             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-062      | Date - GMT | 20 SEP 89 |
| Station Name | D892-062   | Time - GMT | 0248      |
| Latitude     | 4.57.7 N   | Date - LOC | 19 SEP 89 |
| Longitude    | 108.19.9 W | Time - LOC | 1948      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.10           | 33.27             | 0.13              | 0.08             | --               |
| 20           | 26.93           | 33.37             | 0.13              | 0.05             | 5.42             |
| 40           | 26.95           | 33.38             | 0.14              | 0.05             | --               |
| 60           | 26.53           | 34.41             | 0.40              | 0.31             | --               |
| 80           | 21.07           | 34.52             | 0.27              | 0.61             | --               |
| 100          | 14.35           | 34.78             | 0.04              | 0.12             | --               |
| 125          | 12.54           | 34.71             | 0.02              | 0.04             | --               |
| 150          | 12.07           | 34.77             | 0.00              | 0.02             | --               |
| 200          | 11.51           | 34.79             | --                | --               | --               |
| 350          | 9.75            | 34.70             | --                | --               | --               |
| 500          | 8.56            | 34.63             | --                | --               | 0.44             |
| 1000         | 4.52            | 34.56             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-063      | Date - GMT | 20 SEP 89 |
| Station Name | D892-063   | Time - GMT | 1147      |
| Latitude     | 4.42.8 N   | Date - LOC | 20 SEP 89 |
| Longitude    | 107.10.9 W | Time - LOC | 0447      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.00        | 33.20          | 0.18           | 0.08          | --            |
| 20        | 26.86        | 33.30          | 0.18           | 0.08          | 5.07          |
| 40        | 26.87        | 33.30          | 0.17           | 0.09          | --            |
| 60        | 23.21        | 34.33          | 0.47           | 0.50          | --            |
| 80        | 15.42        | 34.76          | 0.15           | 0.21          | --            |
| 100       | 13.42        | 34.86          | 0.06           | 0.10          | --            |
| 125       | 12.92        | 34.90          | 0.01           | 0.03          | --            |
| 150       | 12.64        | 34.87          | 0.00           | 0.04          | --            |
| 200       | 11.95        | 34.83          | --             | --            | --            |
| 350       | 10.11        | 34.70          | --             | --            | --            |
| 500       | 8.41         | 34.63          | --             | --            | 0.33          |
| 1000      | 4.49         | 34.56          | --             | --            | 1.24          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-064      | Date - GMT | 21 SEP 89 |
| Station Name | D892-064   | Time - GMT | 0250      |
| Latitude     | 4.24.9 N   | Date - LOC | 20 SEP 89 |
| Longitude    | 105. 1.2 W | Time - LOC | 1950      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.60        | 33.34          | 0.14           | 0.04          | --            |
| 20        | 26.42        | 33.44          | 0.15           | 0.05          | 5.28          |
| 40        | 25.92        | 34.03          | 0.32           | 0.17          | --            |
| 60        | 23.29        | 34.53          | 0.36           | 0.52          | --            |
| 80        | 20.35        | 34.79          | 0.26           | 0.51          | --            |
| 100       | 17.74        | 34.81          | 0.21           | 0.36          | --            |
| 125       | 13.53        | 34.69          | 0.05           | 0.11          | --            |
| 150       | 12.37        | 34.79          | 0.01           | 0.05          | --            |
| 200       | 11.14        | 34.73          | --             | --            | --            |
| 350       | 9.95         | 34.69          | --             | --            | 1.00          |
| 500       | 7.64         | 34.60          | --             | --            | 0.55          |
| 1000      | 4.44         | 34.56          | --             | --            | --            |



|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-065      | Date - GMT | 21 SEP 89 |
| Station Name | D892-065   | Time - GMT | 1147      |
| Latitude     | 4.12.4 N   | Date - LOC | 21 SEP 89 |
| Longitude    | 103.51.6 W | Time - LOC | 0447      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.00        | 33.79          | 0.25           | 0.11          | --            |
| 20        | 25.80        | 33.91          | 0.26           | 0.10          | --            |
| 40        | 25.78        | 33.91          | 0.33           | 0.22          | --            |
| 60        | 25.89        | 34.36          | 0.21           | 0.42          | --            |
| 80        | 16.51        | 34.90          | 0.07           | 0.21          | --            |
| 100       | 14.26        | 34.96          | 0.01           | 0.05          | --            |
| 125       | 13.59        | 34.93          | 0.00           | 0.04          | --            |
| 150       | 13.16        | 34.91          | 0.00           | 0.03          | --            |
| 200       | 12.34        | 34.85          | --             | --            | --            |
| 350       | 10.30        | 34.71          | --             | --            | --            |
| 500       | 8.48         | 34.64          | --             | --            | 0.29          |
| 1000      | 4.44         | 34.56          | --             | --            | 1.26          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-066      | Date - GMT | 22 SEP 89 |
| Station Name | D892-066   | Time - GMT | 0218      |
| Latitude     | 3.37.7 N   | Date - LOC | 21 SEP 89 |
| Longitude    | 101.47.0 W | Time - LOC | 2018      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 34.27          | 0.29           | 0.11          | --            |
| 20        | 25.84        | 34.39          | 0.32           | 0.10          | 5.07          |
| 40        | 25.84        | 34.39          | 0.27           | 0.13          | --            |
| 60        | 25.82        | 34.39          | 0.28           | 0.12          | --            |
| 80        | 14.92        | 34.94          | 0.18           | 0.31          | --            |
| 100       | 13.94        | 34.92          | 0.09           | 0.21          | --            |
| 125       | 13.57        | 34.92          | 0.04           | 0.09          | --            |
| 150       | 13.38        | 34.91          | 0.03           | 0.09          | --            |
| 200       | 13.00        | 34.89          | --             | --            | --            |
| 350       | 10.86        | 34.73          | --             | --            | 1.00          |
| 500       | 8.20         | 34.62          | --             | --            | 0.33          |
| 1000      | 4.70         | 34.55          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 2-067      | Date - GMT | 22 SEP 89 |
| Station Name | D892-067   | Time - GMT | 1049      |
| Latitude     | 3.24.6 N   | Date - LOC | 22 SEP 89 |
| Longitude    | 100.45.0 W | Time - LOC | 0449      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 34.20          | 0.27           | 0.11          | --            |
| 20        | 25.93        | 34.32          | 0.28           | 0.11          | --            |
| 40        | 25.93        | 34.31          | 0.29           | 0.13          | --            |
| 60        | 22.88        | 34.64          | 0.27           | 0.37          | --            |
| 80        | 15.04        | 34.93          | 0.17           | 0.43          | --            |
| 100       | 14.08        | 34.93          | 0.08           | 0.24          | --            |
| 125       | 13.52        | 34.91          | 0.03           | 0.09          | --            |
| 150       | 13.34        | 34.91          | 0.01           | 0.05          | --            |
| 200       | 12.79        | 34.88          | --             | --            | --            |
| 350       | 10.54        | 34.72          | --             | --            | --            |
| 500       | 8.09         | 34.63          | --             | --            | 0.41          |
| 1000      | 4.45         | 34.56          | --             | --            | 1.54          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-068     | Date - GMT | 23 SEP 89 |
| Station Name | D892-068  | Time - GMT | 0217      |
| Latitude     | 2.56.2 N  | Date - LOC | 22 SEP 89 |
| Longitude    | 98.37.4 W | Time - LOC | 2017      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 34.10          | 0.30           | 0.11          | --            |
| 20        | 25.91        | 34.23          | 0.30           | 0.13          | 5.07          |
| 40        | 25.91        | 34.23          | 0.30           | 0.12          | --            |
| 60        | 18.35        | 34.47          | 0.44           | 0.69          | --            |
| 80        | 16.10        | 34.91          | 0.31           | 0.54          | --            |
| 100       | 14.70        | 34.92          | 0.16           | 0.23          | --            |
| 125       | 13.80        | 34.91          | 0.07           | 0.15          | --            |
| 150       | 13.42        | 34.91          | 0.01           | 0.04          | --            |
| 200       | 13.04        | 34.89          | --             | --            | --            |
| 350       | 10.36        | 34.70          | --             | --            | --            |
| 500       | 8.17         | 34.63          | --             | --            | 0.59          |
| 1000      | 4.42         | 34.56          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-069     | Date - GMT | 23 SEP 89 |
| Station Name | D892-069  | Time - GMT | 1050      |
| Latitude     | 2.43.6 N  | Date - LOC | 23 SEP 89 |
| Longitude    | 97.36.4 W | Time - LOC | 0450      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.10           | 33.98             | 0.30              | 0.14             | --               |
| 20           | 25.89           | 34.11             | 0.31              | 0.12             | 4.97             |
| 40           | 25.89           | 34.11             | 0.42              | 0.42             | --               |
| 60           | 14.54           | 34.94             | 0.24              | 0.38             | --               |
| 80           | 14.31           | 34.96             | 0.19              | 0.27             | --               |
| 100          | 14.18           | 34.95             | 0.16              | 0.20             | --               |
| 125          | 14.04           | 34.94             | 0.08              | 0.07             | --               |
| 150          | 13.90           | 34.94             | 0.07              | 0.06             | --               |
| 200          | 13.38           | 34.92             | --                | --               | --               |
| 350          | 10.64           | 34.73             | --                | --               | --               |
| 500          | 8.05            | 34.62             | --                | --               | --               |
| 1000         | 4.45            | 34.56             | --                | --               | --               |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-070     | Date - GMT | 24 SEP 89 |
| Station Name | D892-070  | Time - GMT | 0221      |
| Latitude     | 2.35.2 N  | Date - LOC | 23 SEP 89 |
| Longitude    | 95.33.6 W | Time - LOC | 2021      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.10           | 33.74             | 0.24              | 0.08             | --               |
| 20           | 25.87           | 33.88             | 0.25              | 0.08             | 5.30             |
| 40           | 25.88           | 33.88             | 0.25              | 0.10             | --               |
| 60           | 17.36           | 34.87             | 0.40              | 0.54             | --               |
| 80           | 14.79           | 34.91             | 0.17              | 0.31             | --               |
| 100          | 14.03           | 34.92             | 0.07              | 0.19             | --               |
| 125          | 13.64           | 34.92             | 0.01              | 0.04             | --               |
| 150          | 13.44           | 34.91             | 0.00              | 0.03             | --               |
| 200          | 13.03           | 34.89             | --                | --               | --               |
| 350          | 11.12           | 34.76             | --                | --               | 1.03             |
| 500          | 8.34            | 34.64             | --                | --               | 0.86             |
| 1000         | 4.56            | 34.56             | --                | --               | --               |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-071     | Date - GMT | 24 SEP 89 |
| Station Name | D892-071  | Time - GMT | 1050      |
| Latitude     | 2.17.3 N  | Date - LOC | 24 SEP 89 |
| Longitude    | 94.31.0 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 33.70          | 0.24           | 0.09          | --            |
| 20        | 25.92        | 33.84          | 0.24           | 0.10          | --            |
| 40        | 25.83        | 33.89          | 0.25           | 0.11          | --            |
| 60        | 17.23        | 34.75          | 0.38           | 0.46          | --            |
| 80        | 15.35        | 34.89          | 0.35           | 0.36          | --            |
| 100       | 14.52        | 34.94          | 0.26           | 0.27          | --            |
| 125       | 13.93        | 34.94          | 0.07           | 0.13          | --            |
| 150       | 13.67        | 34.92          | 0.01           | 0.04          | --            |
| 200       | 13.18        | 34.90          | --             | --            | 1.82          |
| 350       | 10.62        | 34.72          | --             | --            | --            |
| 500       | 8.18         | 34.62          | --             | --            | --            |
| 1000      | 4.43         | 34.55          | --             | --            | 2.10          |

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|--------------|-----------|------------|-----------|
| Station No.  | 2-072     | Date - GMT | 25 SEP 89 |
| Station Name | D892-072  | Time - GMT | 0148      |
| Latitude     | 1.49.8 N  | Date - LOC | 24 SEP 89 |
| Longitude    | 92.30.3 W | Time - LOC | 1948      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 25.70        | 33.65          | 0.21           | 0.08          | --            |
| 20        | 25.41        | 33.90          | 0.29           | 0.10          | --            |
| 40        | 18.88        | 34.60          | 0.55           | 0.42          | --            |
| 60        | 15.72        | 34.91          | 0.53           | 0.53          | --            |
| 80        | 14.58        | 34.95          | 0.26           | 0.42          | --            |
| 100       | 14.04        | 34.93          | 0.13           | 0.25          | --            |
| 125       | 13.87        | 34.93          | 0.05           | 0.08          | --            |
| 150       | 13.75        | 34.93          | 0.01           | 0.04          | --            |
| 200       | 12.99        | 34.89          | --             | --            | --            |
| 350       | 10.37        | 34.71          | --             | --            | 0.55          |
| 500       | 8.02         | 34.62          | --             | --            | 0.81          |
| 1000      | 4.50         | 34.55          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-073     | Date - GMT | 26 SEP 89 |
| Station Name | D892-073  | Time - GMT | 0151      |
| Latitude     | 1.18.4 N  | Date - LOC | 25 SEP 89 |
| Longitude    | 91. 6.7 W | Time - LOC | 1951      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 23.90        | 33.88          | 0.37           | 0.10          | --            |
| 20        | 23.73        | 34.06          | 0.37           | 0.11          | --            |
| 40        | 16.15        | 35.03          | 0.88           | 0.42          | --            |
| 60        | 14.82        | 34.97          | 0.41           | 0.39          | --            |
| 80        | 14.60        | 34.96          | 0.32           | 0.36          | --            |
| 100       | 14.05        | 34.95          | 0.22           | 0.21          | --            |
| 125       | 13.68        | 34.94          | 0.06           | 0.08          | --            |
| 150       | 13.64        | 34.94          | 0.03           | 0.05          | --            |
| 200       | 13.46        | 34.93          | --             | --            | --            |
| 350       | 9.96         | 34.72          | --             | --            | 0.67          |
| 500       | 7.65         | 34.60          | --             | --            | 1.30          |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 2-074     | Date - GMT | 26 SEP 89 |
| Station Name | D892-074  | Time - GMT | 1050      |
| Latitude     | 1. 3.3 N  | Date - LOC | 26 SEP 89 |
| Longitude    | 90. 5.5 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 24.40        | 33.82          | 0.30           | 0.13          | --            |
| 20        | 24.28        | 33.99          | 0.27           | 0.20          | --            |
| 40        | 15.79        | 34.93          | 0.37           | 0.46          | --            |
| 60        | 15.06        | 34.98          | 0.28           | 0.25          | --            |
| 80        | 14.77        | 34.98          | 0.09           | 0.10          | --            |
| 100       | 14.46        | 34.96          | 0.03           | 0.07          | --            |
| 125       | --           | --             | 0.08           | 0.11          | --            |
| 150       | --           | --             | 0.09           | 0.12          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | --            |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-075     | Date - GMT | 27 SEP 89 |
| Station Name | D892-075  | Time - GMT | 0204      |
| Latitude     | 0.38.9 N  | Date - LOC | 26 SEP 89 |
| Longitude    | 88. 8.8 W | Time - LOC | 2004      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 24.60        | 33.69          | 0.44           | 0.33          | --            |
| 20        | 24.36        | 33.86          | 0.44           | 0.21          | 5.10          |
| 40        | 20.02        | 34.41          | 0.68           | 0.83          | --            |
| 60        | 15.18        | 34.99          | 0.30           | 0.48          | --            |
| 80        | 14.73        | 34.98          | 0.15           | 0.17          | --            |
| 100       | 14.38        | 34.94          | 0.02           | 0.04          | --            |
| 125       | 13.91        | 34.94          | 0.01           | 0.04          | --            |
| 150       | 13.60        | 34.93          | 0.01           | 0.03          | --            |
| 200       | 12.61        | 34.87          | --             | --            | --            |
| 350       | 9.61         | 34.71          | --             | --            | 0.93          |
| 500       | --           | --             | --             | --            | --            |
| 1000      | --           | --             | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 2-076     | Date - GMT | 27 SEP 89 |
| Station Name | D892-076  | Time - GMT | 1047      |
| Latitude     | 0.22.1 N  | Date - LOC | 27 SEP 89 |
| Longitude    | 87. 4.3 W | Time - LOC | 0447      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 23.00        | 33.69          | 0.55           | 0.26          | --            |
| 20        | 22.74        | 33.86          | 0.63           | 0.33          | 5.19          |
| 40        | 21.54        | 33.12          | 0.76           | 0.62          | --            |
| 60        | 15.75        | 35.03          | 0.36           | 0.50          | --            |
| 80        | 14.68        | 35.02          | 0.09           | 0.15          | --            |
| 100       | 14.34        | 34.97          | 0.07           | 0.08          | --            |
| 125       | 14.26        | 34.97          | 0.06           | 0.09          | --            |
| 150       | 14.12        | 34.96          | 0.02           | 0.07          | --            |
| 200       | 13.48        | 34.93          | --             | --            | --            |
| 350       | 9.83         | 34.72          | --             | --            | --            |
| 500       | 7.94         | 34.63          | --             | --            | 0.85          |
| 1000      | 4.58         | 34.56          | --             | --            | 1.74          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-077     | Date - GMT | 28 SEP 89 |
| Station Name | D892-077  | Time - GMT | 0112      |
| Latitude     | 0. 6.3 S  | Date - LOC | 27 SEP 89 |
| Longitude    | 85.17.8 W | Time - LOC | 2012      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 21.20        | 34.07          | 0.58           | 0.20          | --            |
| 20        | --           | --             | 0.50           | 0.25          | 5.42          |
| 40        | --           | --             | 0.28           | 0.56          | --            |
| 60        | --           | --             | 0.18           | 0.22          | --            |
| 80        | --           | --             | 0.10           | 0.10          | --            |
| 100       | --           | --             | 0.03           | 0.08          | --            |
| 125       | --           | --             | 0.02           | 0.06          | --            |
| 150       | --           | --             | 0.02           | 0.07          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | 0.37          |
| 500       | --           | --             | --             | --            | 0.64          |
| 1000      | --           | --             | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-078     | Date - GMT | 28 SEP 89 |
| Station Name | D892-078  | Time - GMT | 0952      |
| Latitude     | 0.22.1 S  | Date - LOC | 28 SEP 89 |
| Longitude    | 84.18.9 W | Time - LOC | 0452      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 21.50        | 33.99          | 0.55           | 0.30          | --            |
| 20        | 20.64        | 34.36          | 0.65           | 0.45          | 2.79          |
| 40        | 15.53        | 34.99          | 0.21           | 0.27          | --            |
| 60        | 14.80        | 34.98          | --             | --            | --            |
| 80        | 14.72        | 34.98          | 0.12           | 0.16          | --            |
| 100       | 14.37        | 34.97          | --             | --            | --            |
| 125       | 14.15        | 34.96          | 0.04           | 0.07          | --            |
| 150       | 14.14        | 34.96          | 0.00           | 0.05          | --            |
| 200       | 13.40        | 34.93          | --             | --            | --            |
| 350       | 9.90         | 34.72          | --             | --            | 1.10          |
| 500       | 8.18         | 34.64          | --             | --            | 1.68          |
| 1000      | 4.48         | 34.57          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 2-079     | Date - GMT | 29 SEP 89 |
| Station Name | D892-079  | Time - GMT | 0111      |
| Latitude     | 0.50.6 S  | Date - LOC | 28 SEP 89 |
| Longitude    | 82.50.3 W | Time - LOC | 2011      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 22.90        | 33.47          | 0.55           | 0.21          | --            |
| 20        | 22.42        | 33.73          | 0.56           | 0.45          | 3.72          |
| 40        | 15.93        | 35.00          | 0.17           | 0.18          | --            |
| 60        | 15.10        | 35.03          | 0.04           | 0.08          | --            |
| 80        | 14.54        | 34.97          | 0.01           | 0.05          | --            |
| 100       | 14.29        | 34.97          | 0.01           | 0.04          | --            |
| 125       | 13.88        | 34.94          | 0.00           | 0.04          | --            |
| 150       | 13.63        | 34.93          | 0.00           | 0.05          | --            |
| 200       | 12.70        | 34.89          | --             | --            | --            |
| 350       | 10.23        | 34.74          | --             | --            | 0.84          |
| 500       | 7.80         | 34.92          | --             | --            | 0.82          |
| 1000      | --           | --             | --             | --            | --            |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 3-080     | Date - GMT | 6 OCT 89 |
| Station Name | D893-080  | Time - GMT | 0123     |
| Latitude     | 1.20.4 S  | Date - LOC | 7 OCT 89 |
| Longitude    | 84.38.8 W | Time - LOC | 2023     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 24.20        | 33.59          | 0.31           | 0.12          | --            |
| 20        | 22.26        | 33.90          | 0.67           | 0.33          | 4.43          |
| 40        | 15.08        | 35.01          | 0.26           | 0.22          | --            |
| 60        | 14.70        | 34.97          | 0.13           | 0.17          | --            |
| 80        | 14.49        | 34.98          | 0.07           | 0.09          | --            |
| 100       | 14.42        | 34.98          | 0.03           | 0.07          | --            |
| 125       | 14.24        | 34.97          | 0.01           | 0.05          | --            |
| 150       | 14.04        | 34.95          | 0.01           | 0.04          | --            |
| 200       | 13.84        | 34.94          | --             | --            | --            |
| 350       | 10.32        | 34.74          | --             | --            | 0.37          |
| 500       | 8.17         | 34.63          | --             | --            | 1.48          |
| 1000      | 4.65         | 34.55          | --             | --            | --            |



|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 3-081     | Date - GMT | 7 OCT 89 |
| Station Name | D893-081  | Time - GMT | 0939     |
| Latitude     | 0.58.1 S  | Date - LOC | 7 OCT 89 |
| Longitude    | 85.21.1 W | Time - LOC | 0439     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 24.70           | 33.51             | 0.32              | 0.13             | --               |
| 20           | 24.41           | 33.62             | 0.33              | 0.43             | --               |
| 40           | 15.10           | 34.97             | 0.10              | 0.08             | --               |
| 60           | 14.54           | 34.95             | 0.03              | 0.07             | --               |
| 80           | 14.33           | 34.96             | 0.02              | 0.05             | --               |
| 100          | 14.16           | 34.95             | 0.01              | 0.05             | --               |
| 125          | 14.05           | 34.94             | 0.00              | 0.04             | --               |
| 150          | 13.87           | 34.94             | 0.00              | 0.06             | --               |
| 200          | 13.49           | 34.92             | --                | --               | --               |
| 350          | --              | --                | --                | --               | --               |
| 500          | --              | --                | --                | --               | --               |
| 1000         | --              | --                | --                | --               | --               |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 3-082     | Date - GMT | 8 OCT 89 |
| Station Name | D893-082  | Time - GMT | 0118     |
| Latitude     | 0.59.3 N  | Date - LOC | 7 OCT 89 |
| Longitude    | 84. 2.7 W | Time - LOC | 2018     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.10           | 32.98             | 0.30              | 0.13             | --               |
| 20           | 25.85           | 33.07             | 0.39              | 0.11             | 5.17             |
| 40           | 15.65           | 34.98             | 0.49              | 0.32             | --               |
| 60           | 15.16           | 34.95             | 0.22              | 0.23             | --               |
| 80           | 14.72           | 34.96             | 0.12              | 0.20             | --               |
| 100          | 14.42           | 34.95             | 0.03              | 0.10             | --               |
| 125          | 13.91           | 34.93             | 0.01              | 0.04             | --               |
| 150          | 13.81           | 34.93             | 0.01              | 0.03             | --               |
| 200          | 13.12           | 34.88             | --                | --               | --               |
| 350          | 10.40           | 34.74             | --                | --               | 0.19             |
| 500          | 8.22            | 34.63             | --                | --               | 0.67             |
| 1000         | 4.54            | 34.56             | --                | --               | --               |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 3-083     | Date - GMT | 8 OCT 89 |
| Station Name | D893-083  | Time - GMT | 0940     |
| Latitude     | 1.51.9 N  | Date - LOC | 8 OCT 89 |
| Longitude    | 83.21.3 W | Time - LOC | 0440     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.50        | 33.10          | 0.22           | 0.08          | --            |
| 20        | --           | --             | 0.26           | 0.10          | 5.13          |
| 40        | --           | --             | 0.61           | 0.60          | --            |
| 60        | --           | --             | 0.26           | 0.38          | --            |
| 80        | --           | --             | 0.06           | 0.12          | --            |
| 100       | --           | --             | 0.03           | 0.10          | --            |
| 125       | --           | --             | 0.01           | 0.04          | --            |
| 150       | --           | --             | 0.01           | 0.04          | --            |
| 200       | --           | --             | --             | --            | --            |
| 350       | --           | --             | --             | --            | 0.35          |
| 500       | --           | --             | --             | --            | 0.52          |
| 1000      | --           | --             | --             | --            | --            |

|              |           |            |          |
|--------------|-----------|------------|----------|
| Station No.  | 3-084     | Date - GMT | 9 OCT 89 |
| Station Name | D893-084  | Time - GMT | 0950     |
| Latitude     | 4.42.9 N  | Date - LOC | 9 OCT 89 |
| Longitude    | 81.17.3 W | Time - LOC | 0450     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 32.19          | 0.65           | 0.18          | --            |
| 20        | 27.08        | 32.36          | 0.37           | 0.30          | 4.92          |
| 40        | 23.03        | 34.04          | 0.46           | 0.74          | --            |
| 60        | 16.37        | 34.83          | 0.13           | 0.27          | --            |
| 80        | 15.33        | 34.92          | 0.07           | 0.15          | --            |
| 100       | 14.78        | 34.93          | 0.03           | 0.05          | --            |
| 125       | 14.39        | 34.93          | 0.01           | 0.04          | --            |
| 150       | 13.93        | 34.91          | 0.01           | 0.02          | --            |
| 200       | 13.53        | 34.91          | --             | --            | --            |
| 350       | 10.62        | 34.74          | --             | --            | --            |
| 500       | 8.36         | 34.64          | --             | --            | 0.33          |
| 1000      | 4.56         | 34.56          | --             | --            | 1.37          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-085     | Date - GMT | 10 OCT 89 |
| Station Name | D893-085  | Time - GMT | 0120      |
| Latitude     | 4. 8.5 N  | Date - LOC | 9 OCT 89  |
| Longitude    | 82.39.7 W | Time - LOC | 2020      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.80           | 32.85             | 0.33              | 0.18             | --               |
| 20           | 26.55           | 32.93             | 0.35              | 0.16             | 5.06             |
| 40           | 26.32           | 33.14             | 0.53              | 0.44             | --               |
| 60           | 17.44           | 34.86             | 0.19              | 0.52             | --               |
| 80           | 14.92           | 34.92             | 0.07              | 0.26             | --               |
| 100          | 14.46           | 34.94             | 0.02              | 0.09             | --               |
| 125          | 14.13           | 34.92             | 0.00              | 0.08             | --               |
| 150          | 13.83           | 34.92             | 0.00              | 0.04             | --               |
| 200          | 13.16           | 34.89             | --                | --               | --               |
| 350          | 10.55           | 34.73             | --                | --               | 0.19             |
| 500          | 8.38            | 34.64             | --                | --               | 0.20             |
| 1000         | --              | --                | --                | --               | --               |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-086     | Date - GMT | 10 OCT 89 |
| Station Name | D893-086  | Time - GMT | 0959      |
| Latitude     | 3.36.7 N  | Date - LOC | 10 OCT 89 |
| Longitude    | 83.33.8 W | Time - LOC | 0459      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.70           | 32.90             | 0.26              | 0.12             | --               |
| 20           | 26.49           | 33.00             | 0.27              | 0.10             | 5.12             |
| 40           | 25.99           | 33.36             | 0.41              | 0.30             | --               |
| 60           | 17.23           | 34.85             | 0.23              | 0.59             | --               |
| 80           | 15.59           | 34.90             | 0.14              | 0.24             | --               |
| 100          | 14.12           | 34.92             | 0.01              | 0.06             | --               |
| 125          | 13.81           | 34.92             | 0.00              | 0.06             | --               |
| 150          | 13.45           | 34.91             | 0.00              | 0.04             | --               |
| 200          | 12.99           | 34.88             | --                | --               | --               |
| 350          | 10.04           | 34.71             | --                | --               | --               |
| 500          | 8.03            | 34.61             | --                | --               | 0.30             |
| 1000         | 4.68            | 34.55             | --                | --               | 1.49             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-087     | Date - GMT | 11 OCT 89 |
| Station Name | D893-087  | Time - GMT | 0126      |
| Latitude     | 2.39.5 N  | Date - LOC | 10 OCT 89 |
| Longitude    | 85.25.9 W | Time - LOC | 2026      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.40        | 33.33          | 0.27           | 0.09          | --            |
| 20        | 26.23        | 33.42          | 0.30           | 0.11          | 5.06          |
| 40        | 26.18        | 33.43          | 0.29           | 0.17          | --            |
| 60        | 16.69        | 34.98          | 0.51           | 0.75          | --            |
| 80        | 16.31        | 34.99          | 0.33           | 0.81          | --            |
| 100       | 15.38        | 34.96          | 0.14           | 0.33          | --            |
| 125       | 14.62        | 34.94          | 0.04           | 0.12          | --            |
| 150       | 14.20        | 34.95          | 0.01           | 0.06          | --            |
| 200       | 13.19        | 34.89          | --             | --            | --            |
| 350       | 10.55        | 34.73          | --             | --            | 0.39          |
| 500       | 8.13         | 34.62          | --             | --            | 0.22          |
| 1000      | 4.53         | 34.55          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-088     | Date - GMT | 11 OCT 89 |
| Station Name | D893-088  | Time - GMT | 0948      |
| Latitude     | 2.10.7 N  | Date - LOC | 11 OCT 89 |
| Longitude    | 86.21.5 W | Time - LOC | 0448      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 33.41          | 0.38           | 0.14          | --            |
| 20        | 25.87        | 33.51          | 0.38           | 0.16          | 5.08          |
| 40        | 25.83        | 33.51          | 0.40           | 0.14          | --            |
| 60        | 16.14        | 34.98          | 0.57           | 0.56          | --            |
| 80        | 15.42        | 34.99          | 0.19           | 0.34          | --            |
| 100       | 15.24        | 35.03          | 0.11           | 0.20          | --            |
| 125       | 14.82        | 34.99          | 0.10           | 0.18          | --            |
| 150       | 14.73        | 34.98          | 0.09           | 0.16          | --            |
| 200       | 13.67        | 34.93          | --             | --            | --            |
| 350       | 10.28        | 34.73          | --             | --            | --            |
| 500       | 8.17         | 34.63          | --             | --            | 0.43          |
| 1000      | 4.54         | 34.56          | --             | --            | 1.42          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-089     | Date - GMT | 12 OCT 89 |
| Station Name | D893-089  | Time - GMT | 0127      |
| Latitude     | 2.23.3 N  | Date - LOC | 11 OCT 89 |
| Longitude    | 87.13.0 W | Time - LOC | 2027      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.30        | 33.52          | 0.34           | 0.15          | --            |
| 20        | 26.12        | 33.61          | 0.36           | 0.15          | 4.98          |
| 40        | 26.02        | 33.63          | 0.36           | 0.14          | --            |
| 60        | 16.09        | 34.99          | 0.54           | 0.41          | --            |
| 80        | 15.24        | 34.98          | 0.49           | 0.42          | --            |
| 100       | 15.02        | 35.00          | 0.37           | 0.37          | --            |
| 125       | 14.91        | 35.00          | 0.18           | 0.24          | --            |
| 150       | 14.42        | 35.02          | 0.07           | 0.09          | --            |
| 200       | 13.38        | 34.90          | --             | --            | --            |
| 350       | 10.27        | 34.73          | --             | --            | --            |
| 500       | 8.08         | 34.63          | --             | --            | 0.51          |
| 1000      | 4.60         | 34.56          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-090     | Date - GMT | 12 OCT 89 |
| Station Name | D893-090  | Time - GMT | 0955      |
| Latitude     | 3.26.1 N  | Date - LOC | 12 OCT 89 |
| Longitude    | 86.39.9 W | Time - LOC | 0455      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.50        | 33.35          | 0.24           | 0.10          | --            |
| 20        | 26.27        | 33.45          | 0.27           | 0.10          | 4.99          |
| 40        | 26.26        | 33.45          | 0.26           | 0.10          | --            |
| 60        | 18.10        | 34.78          | 0.38           | 0.46          | --            |
| 80        | 16.60        | 34.95          | 0.27           | 0.49          | --            |
| 100       | 15.78        | 34.94          | 0.17           | 0.33          | --            |
| 125       | 14.55        | 34.94          | 0.04           | 0.13          | --            |
| 150       | 14.16        | 34.94          | 0.01           | 0.05          | --            |
| 200       | 13.61        | 34.92          | --             | --            | --            |
| 350       | 10.55        | 34.74          | --             | --            | --            |
| 500       | 7.96         | 34.62          | --             | --            | 0.26          |
| 1000      | 4.40         | 34.56          | --             | --            | 1.64          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-091     | Date - GMT | 13 OCT 89 |
| Station Name | D893-091  | Time - GMT | 0122      |
| Latitude     | 5.36.9 N  | Date - LOC | 12 OCT 89 |
| Longitude    | 85.32.3 W | Time - LOC | 2022      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.80        | 32.91          | 0.25           | 0.10          | --            |
| 20        | 26.57        | 33.01          | 0.27           | 0.12          | 4.92          |
| 40        | 22.44        | 34.24          | 0.33           | 0.57          | --            |
| 60        | 18.20        | 34.80          | 0.19           | 0.41          | --            |
| 80        | 17.11        | 34.92          | 0.14           | 0.33          | --            |
| 100       | 16.75        | 34.92          | 0.07           | 0.25          | --            |
| 125       | 14.76        | 34.91          | 0.02           | 0.08          | --            |
| 150       | 14.39        | 34.92          | 0.01           | 0.05          | --            |
| 200       | 13.46        | 34.89          | --             | --            | --            |
| 350       | 10.34        | 34.71          | --             | --            | 0.44          |
| 500       | 8.52         | 34.64          | --             | --            | 0.19          |
| 1000      | 4.48         | 34.56          | --             | --            | --            |

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|--------------|-----------|------------|-----------|
| Station No.  | 3-092     | Date - GMT | 13 OCT 89 |
| Station Name | D893-092  | Time - GMT | 0948      |
| Latitude     | 6.40.3 N  | Date - LOC | 13 OCT 89 |
| Longitude    | 84.58.9 W | Time - LOC | 0488      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.10        | 32.02          | 0.20           | 0.10          | --            |
| 20        | 25.81        | 33.46          | 0.34           | 0.15          | 4.82          |
| 40        | 20.78        | 34.48          | 0.72           | 1.24          | --            |
| 60        | 17.55        | 34.74          | 0.17           | 0.51          | --            |
| 80        | 15.72        | 34.86          | 0.12           | 0.32          | --            |
| 100       | 14.76        | 34.89          | 0.06           | 0.17          | --            |
| 125       | 13.96        | 34.91          | 0.02           | 0.07          | --            |
| 150       | 13.68        | 34.89          | 0.00           | 0.05          | --            |
| 200       | 12.68        | 34.82          | --             | --            | --            |
| 350       | 10.66        | 34.74          | --             | --            | --            |
| 500       | 8.04         | 34.62          | --             | --            | 0.21          |
| 1000      | 4.74         | 34.56          | --             | --            | 1.02          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-093     | Date - GMT | 14 OCT 89 |
| Station Name | D893-093  | Time - GMT | 0118      |
| Latitude     | 6.41.2 N  | Date - LOC | 13 OCT 89 |
| Longitude    | 85.22.5 W | Time - LOC | 2018      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.10        | 32.70          | 0.21           | 0.10          | --            |
| 20        | 26.83        | 32.84          | 0.28           | 0.13          | 5.09          |
| 40        | 21.61        | 34.39          | 0.38           | 0.45          | --            |
| 60        | 18.79        | 34.69          | 0.38           | 0.59          | --            |
| 80        | 16.74        | 34.79          | 0.16           | 0.29          | --            |
| 100       | 15.76        | 34.86          | 0.08           | 0.21          | --            |
| 125       | 14.26        | 34.85          | 0.02           | 0.07          | --            |
| 150       | 13.74        | 34.88          | 0.00           | 0.04          | --            |
| 200       | 12.79        | 34.85          | --             | --            | --            |
| 350       | 10.44        | 34.70          | --             | --            | 0.24          |
| 500       | 8.16         | 34.61          | --             | --            | 0.15          |
| 1000      | 4.61         | 34.56          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-094     | Date - GMT | 14 OCT 89 |
| Station Name | D893-094  | Time - GMT | 0949      |
| Latitude     | 6. 5.0 N  | Date - LOC | 14 OCT 89 |
| Longitude    | 86.15.5 W | Time - LOC | 0449      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.80        | 33.15          | 0.20           | 0.12          | --            |
| 20        | 26.60        | 33.27          | 0.29           | 0.36          | --            |
| 40        | 25.38        | 33.18          | 0.20           | 0.46          | --            |
| 60        | 18.33        | 34.75          | 0.10           | 0.25          | --            |
| 80        | 15.59        | 34.87          | 0.06           | 0.16          | --            |
| 100       | 14.51        | 34.90          | --             | --            | --            |
| 125       | 13.95        | 34.89          | 0.01           | 0.05          | --            |
| 150       | 13.64        | 34.90          | 0.00           | 0.03          | --            |
| 200       | 12.96        | 34.85          | --             | --            | --            |
| 350       | 10.32        | 34.70          | --             | --            | --            |
| 500       | 8.23         | 34.62          | --             | --            | 0.22          |
| 1000      | 4.47         | 34.56          | --             | --            | 1.10          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-095     | Date - GMT | 15 OCT 89 |
| Station Name | D893-095  | Time - GMT | 0952      |
| Latitude     | 5. 9.4 N  | Date - LOC | 15 OCT 89 |
| Longitude    | 88. 5.2 W | Time - LOC | 0452      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.90           | 33.19             | 0.23              | 0.13             | --               |
| 20           | 26.66           | 33.27             | 0.28              | 0.14             | 5.23             |
| 40           | 26.64           | 33.27             | 0.28              | 0.14             | --               |
| 60           | 19.45           | 34.67             | 0.31              | 0.51             | --               |
| 80           | 15.01           | 34.80             | 0.16              | 0.29             | --               |
| 100          | 13.96           | 34.86             | 0.04              | 0.09             | --               |
| 125          | 13.49           | 34.83             | 0.00              | 0.02             | --               |
| 150          | 13.19           | 34.86             | 0.00              | 0.02             | --               |
| 200          | 12.63           | 34.83             | --                | --               | --               |
| 350          | 10.02           | 34.68             | --                | --               | --               |
| 500          | 8.09            | 34.61             | --                | --               | 0.33             |
| 1000         | 4.55            | 34.56             | --                | --               | 1.28             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-096     | Date - GMT | 16 OCT 89 |
| Station Name | D893-096  | Time - GMT | 0119      |
| Latitude     | 4.34.7 N  | Date - LOC | 15 OCT 89 |
| Longitude    | 89.56.7 W | Time - LOC | 2019      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.90           | 33.25             | 0.22              | 0.08             | --               |
| 20           | 26.64           | 33.35             | 0.24              | 0.08             | 5.00             |
| 40           | 26.62           | 33.36             | 0.28              | 0.09             | --               |
| 60           | 18.16           | 34.63             | 0.28              | 0.50             | --               |
| 80           | 14.80           | 34.76             | 0.21              | 0.32             | --               |
| 100          | 13.84           | 34.86             | 0.09              | 0.16             | --               |
| 125          | 13.47           | 34.87             | 0.05              | 0.18             | --               |
| 150          | 12.91           | 34.83             | 0.02              | 0.05             | --               |
| 200          | 12.11           | 34.80             | --                | --               | --               |
| 350          | 10.18           | 34.71             | --                | --               | 0.29             |
| 500          | 8.25            | 34.61             | --                | --               | 0.29             |
| 1000         | 4.59            | 34.55             | --                | --               | --               |



|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-097     | Date - GMT | 16 OCT 89 |
| Station Name | D893-097  | Time - GMT | 0948      |
| Latitude     | 4.18.2 N  | Date - LOC | 16 OCT 89 |
| Longitude    | 90.52.6 W | Time - LOC | 0448      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.70           | 33.20             | 0.15              | 0.06             | --               |
| 20           | 26.53           | 33.31             | 0.16              | 0.07             | 5.13             |
| 40           | 26.53           | 33.31             | 0.27              | 0.21             | --               |
| 60           | 18.96           | 34.60             | 0.24              | 0.36             | --               |
| 80           | 15.19           | 34.67             | 0.14              | 0.24             | --               |
| 100          | 13.60           | 34.79             | 0.08              | 0.23             | --               |
| 125          | 12.73           | 34.71             | 0.06              | 0.13             | --               |
| 150          | 12.45           | 34.77             | 0.01              | 0.05             | --               |
| 200          | 11.99           | 34.76             | --                | --               | --               |
| 350          | 10.30           | 34.69             | --                | --               | --               |
| 500          | 8.37            | 34.63             | --                | --               | 0.27             |
| 1000         | 4.51            | 34.55             | --                | --               | 1.34             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-098     | Date - GMT | 17 OCT 89 |
| Station Name | D893-098  | Time - GMT | 0118      |
| Latitude     | 6.31.6 N  | Date - LOC | 16 OCT 89 |
| Longitude    | 90. 5.2 W | Time - LOC | 2018      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | --              | --                | 0.20              | 0.10             | --               |
| 20           | --              | --                | 0.28              | 0.15             | 5.06             |
| 40           | --              | --                | 0.34              | 0.63             | --               |
| 60           | --              | --                | 0.23              | 0.49             | --               |
| 80           | --              | --                | 0.13              | 0.28             | --               |
| 100          | --              | --                | 0.08              | 0.32             | --               |
| 125          | --              | --                | 0.03              | 0.07             | --               |
| 150          | --              | --                | 0.00              | 0.04             | --               |
| 200          | --              | --                | --                | --               | --               |
| 350          | --              | --                | --                | --               | 0.35             |
| 500          | --              | --                | --                | --               | 0.18             |
| 1000         | --              | --                | --                | --               | --               |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-099     | Date - GMT | 17 OCT 89 |
| Station Name | D893-099  | Time - GMT | 0950      |
| Latitude     | 7.39.3 N  | Date - LOC | 17 OCT 89 |
| Longitude    | 89.44.6 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.40        | 33.20          | 0.37           | 0.17          | --            |
| 20        | 19.49        | 34.59          | 0.47           | 0.63          | --            |
| 40        | 15.79        | 34.80          | 0.31           | 0.70          | --            |
| 60        | 14.96        | 34.89          | 0.17           | 0.34          | --            |
| 80        | 14.36        | 34.89          | 0.06           | 0.12          | --            |
| 100       | 13.82        | 34.88          | 0.03           | 0.09          | --            |
| 125       | 13.46        | 34.88          | 0.00           | 0.05          | --            |
| 150       | 13.24        | 34.87          | 0.00           | 0.03          | --            |
| 200       | 12.52        | 34.80          | --             | --            | --            |
| 350       | 10.44        | 34.71          | --             | --            | --            |
| 500       | 8.16         | 34.60          | --             | --            | 0.68          |
| 1000      | 4.44         | 34.55          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-100     | Date - GMT | 18 OCT 89 |
| Station Name | D893-100  | Time - GMT | 0056      |
| Latitude     | 9.55.8 N  | Date - LOC | 17 OCT 89 |
| Longitude    | 89. 6.9 W | Time - LOC | 1956      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 32.80          | 0.27           | 0.15          | --            |
| 20        | 24.85        | 33.49          | 0.33           | 0.27          | 2.42          |
| 40        | 16.42        | 34.81          | 0.42           | 0.69          | --            |
| 60        | 14.86        | 34.83          | 0.21           | 0.23          | --            |
| 80        | 13.96        | 34.86          | 0.07           | 0.13          | --            |
| 100       | 13.74        | 34.88          | 0.02           | 0.06          | --            |
| 125       | 13.46        | 34.87          | 0.00           | 0.03          | --            |
| 150       | 13.24        | 34.86          | 0.00           | 0.05          | --            |
| 200       | 12.64        | 34.82          | --             | --            | --            |
| 350       | 10.32        | 34.69          | --             | --            | 0.20          |
| 500       | 7.78         | 34.59          | --             | --            | 0.22          |
| 1000      | 4.55         | 34.55          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-101     | Date - GMT | 18 OCT 89 |
| Station Name | D893-101  | Time - GMT | 0941      |
| Latitude     | 11.12.9 N | Date - LOC | 18 OCT 89 |
| Longitude    | 88.59.9 W | Time - LOC | 0441      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.50        | 32.46          | 0.38           | 0.19          | --            |
| 20        | 20.06        | 34.59          | 0.26           | 0.49          | 2.52          |
| 40        | 15.80        | 34.81          | 0.20           | 0.75          | --            |
| 60        | 13.82        | 34.80          | 0.12           | 0.38          | --            |
| 80        | 13.57        | 34.87          | 0.03           | 0.06          | --            |
| 100       | 13.36        | 34.88          | 0.01           | 0.07          | --            |
| 125       | 13.14        | 34.87          | 0.00           | 0.06          | --            |
| 150       | 12.97        | 34.86          | 0.00           | 0.06          | --            |
| 200       | 12.39        | 34.81          | --             | --            | --            |
| 350       | 10.60        | 34.72          | --             | --            | 0.26          |
| 500       | 8.45         | 34.61          | --             | --            | 0.17          |
| 1000      | --           | --             | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-102     | Date - GMT | 19 OCT 89 |
| Station Name | D893-102  | Time - GMT | 0125      |
| Latitude     | 10. 1.3 N | Date - LOC | 18 OCT 89 |
| Longitude    | 90.14.9 W | Time - LOC | 2025      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.10        | 33.41          | 0.31           | 0.14          | --            |
| 20        | 19.72        | 34.58          | 0.18           | 0.77          | 3.04          |
| 40        | 15.52        | 34.83          | 0.11           | 0.16          | --            |
| 60        | 14.29        | 34.86          | --             | --            | --            |
| 80        | 13.95        | 34.88          | 0.05           | 0.08          | --            |
| 100       | 13.68        | 34.88          | 0.02           | 0.06          | --            |
| 125       | 13.34        | 34.85          | 0.00           | 0.08          | --            |
| 150       | 13.04        | 34.82          | 0.00           | 0.05          | --            |
| 200       | 12.52        | 34.80          | --             | --            | --            |
| 350       | 10.74        | 34.71          | --             | --            | 0.20          |
| 500       | 8.38         | 34.59          | --             | --            | 0.47          |
| 1000      | 4.49         | 34.55          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-103     | Date - GMT | 19 OCT 89 |
| Station Name | D893-103  | Time - GMT | 0948      |
| Latitude     | 9.10.4 N  | Date - LOC | 19 OCT 89 |
| Longitude    | 90.58.9 W | Time - LOC | 0448      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.70        | 32.91          | 0.22           | 0.10          | --            |
| 20        | 16.54        | 34.77          | 0.28           | 0.17          | 2.17          |
| 40        | 14.18        | 34.76          | 0.39           | 0.64          | --            |
| 60        | 13.85        | 34.81          | 0.06           | 0.22          | --            |
| 80        | 13.46        | 34.81          | 0.07           | 0.16          | --            |
| 100       | 13.08        | 34.77          | 0.03           | 0.10          | --            |
| 125       | 12.91        | 34.78          | 0.01           | 0.05          | --            |
| 150       | 12.75        | 34.81          | 0.01           | 0.04          | --            |
| 200       | 12.37        | 34.80          | --             | --            | --            |
| 350       | 10.54        | 34.70          | --             | --            | --            |
| 500       | 8.52         | 34.60          | --             | --            | 0.13          |
| 1000      | 4.57         | 34.54          | --             | --            | 0.40          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-104     | Date - GMT | 20 OCT 89 |
| Station Name | D893-104  | Time - GMT | 0119      |
| Latitude     | 7.24.9 N  | Date - LOC | 19 OCT 89 |
| Longitude    | 92.18.6 W | Time - LOC | 2019      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.20        | 32.72          | 0.14           | 0.06          | --            |
| 20        | 26.60        | 33.29          | 0.19           | 0.32          | 0.97          |
| 40        | 18.23        | 34.50          | 0.19           | 0.31          | --            |
| 60        | 15.29        | 34.84          | 0.17           | 0.51          | --            |
| 80        | 14.62        | 34.88          | 0.09           | 0.30          | --            |
| 100       | 13.97        | 34.88          | 0.04           | 0.07          | --            |
| 125       | 13.59        | 34.87          | 0.01           | 0.05          | --            |
| 150       | 13.09        | 34.83          | 0.00           | 0.04          | --            |
| 200       | 11.97        | 34.74          | --             | --            | --            |
| 350       | 10.42        | 34.69          | --             | --            | 0.29          |
| 500       | 8.54         | 34.62          | --             | --            | 0.18          |
| 1000      | 4.82         | 34.54          | --             | --            | --            |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-105     | Date - GMT | 20 OCT 89 |
| Station Name | D893-105  | Time - GMT | 0957      |
| Latitude     | 6.31.1 N  | Date - LOC | 20 OCT 89 |
| Longitude    | 93. 5.9 W | Time - LOC | 0457      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.90        | 33.40          | 0.15           | 0.12          | --            |
| 20        | 26.49        | 33.60          | 0.11           | 0.26          | 0.57          |
| 40        | 25.04        | 33.98          | 0.12           | 0.25          | --            |
| 60        | 17.45        | 34.63          | 0.06           | 0.21          | --            |
| 80        | 14.38        | 34.75          | 0.06           | 0.20          | --            |
| 100       | 13.15        | 34.79          | 0.02           | 0.08          | --            |
| 125       | 12.31        | 34.74          | 0.00           | 0.05          | --            |
| 150       | 11.66        | 34.68          | 0.00           | 0.04          | --            |
| 200       | 11.29        | 34.74          | --             | --            | --            |
| 350       | 9.93         | 34.67          | --             | --            | --            |
| 500       | 8.19         | 34.60          | --             | --            | 0.20          |
| 1000      | 4.80         | 34.54          | --             | --            | 0.68          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 3-106     | Date - GMT | 21 OCT 89 |
| Station Name | D893-106  | Time - GMT | 0228      |
| Latitude     | 4.41.2 N  | Date - LOC | 20 OCT 89 |
| Longitude    | 94.45.7 W | Time - LOC | 2028      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.90        | 33.35          | 0.13           | 0.06          | --            |
| 20        | 26.35        | 33.50          | 0.19           | 0.44          | 1.18          |
| 40        | 26.33        | 33.55          | 0.15           | 1.03          | --            |
| 60        | 22.85        | 34.38          | 0.09           | 0.20          | --            |
| 80        | 14.85        | 34.75          | 0.09           | 0.23          | --            |
| 100       | 13.92        | 34.90          | 0.02           | 0.06          | --            |
| 125       | 13.40        | 34.89          | 0.02           | 0.21          | --            |
| 150       | 13.13        | 34.88          | 0.00           | 0.04          | --            |
| 200       | 12.46        | 34.83          | --             | --            | --            |
| 350       | 10.63        | 34.70          | --             | --            | 1.02          |
| 500       | 8.14         | 34.59          | --             | --            | 0.47          |
| 1000      | 4.51         | 34.55          | --             | --            | --            |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-107      | Date - GMT | 3 NOV 89 |
| Station Name | D894-107   | Time - GMT | 0220     |
| Latitude     | 16. 5.9 N  | Date - LOC | 2 NOV 89 |
| Longitude    | 104. 8.9 W | Time - LOC | 2020     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.20        | 33.59          | 0.16           | 0.07          | --            |
| 20        | 28.93        | 33.90          | 1.08           | 0.48          | 4.43          |
| 40        | 19.74        | 34.40          | 0.30           | 0.51          | 5.10          |
| 60        | 15.74        | 34.62          | 0.15           | 0.07          | 5.17          |
| 80        | 14.19        | 34.73          | 0.49           | 0.61          | 2.04          |
| 100       | 13.21        | 34.78          | 0.00           | 0.43          | 0.41          |
| 125       | 12.70        | 34.77          | 0.04           | 1.50          | 0.42          |
| 150       | 12.31        | 34.75          | 0.03           | 0.57          | 0.42          |
| 200       | 11.61        | 34.72          | --             | --            | 0.43          |
| 350       | 9.42         | 34.59          | --             | --            | 0.22          |
| 500       | 7.49         | 34.53          | --             | --            | 0.24          |
| 1000      | 4.39         | 34.52          | --             | --            | 0.88          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-108      | Date - GMT | 3 NOV 89 |
| Station Name | D894-108   | Time - GMT | 1050     |
| Latitude     | 16.10.6 N  | Date - LOC | 3 NOV 89 |
| Longitude    | 105.19.4 W | Time - LOC | 0450     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.50        | 33.59          | 0.13           | 0.07          | --            |
| 20        | 29.27        | 33.67          | 0.15           | 0.11          | 4.99          |
| 40        | 27.68        | 33.78          | 0.45           | 0.62          | 5.16          |
| 60        | 22.05        | 34.23          | 0.15           | 0.40          | 3.24          |
| 80        | 16.51        | 34.58          | 0.00           | 0.33          | 1.20          |
| 100       | 15.01        | 34.70          | 0.00           | 1.00          | 0.48          |
| 125       | 13.64        | 34.77          | 0.00           | 0.33          | 0.42          |
| 150       | 13.04        | 34.79          | 0.01           | 0.28          | 0.40          |
| 200       | 12.26        | 34.77          | --             | --            | 0.39          |
| 350       | 10.10        | 34.64          | --             | --            | 0.42          |
| 500       | 7.86         | 34.53          | --             | --            | 0.15          |
| 1000      | 4.44         | 34.52          | --             | --            | 0.46          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-109      | Date - GMT | 4 NOV 89 |
| Station Name | D894-109   | Time - GMT | 0216     |
| Latitude     | 14.36.5 N  | Date - LOC | 3 NOV 89 |
| Longitude    | 106.43.4 W | Time - LOC | 2016     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.90           | 33.30             | 0.13              | 0.05             | --               |
| 20           | 28.61           | 33.76             | 0.17              | 0.09             | 5.01             |
| 40           | 27.01           | 33.83             | 0.90              | 0.44             | 5.05             |
| 60           | 20.76           | 34.41             | 0.29              | 0.85             | 3.19             |
| 80           | 16.40           | 34.51             | 0.08              | 0.71             | 0.86             |
| 100          | 14.23           | 34.71             | 0.00              | 0.59             | 0.46             |
| 125          | 13.09           | 34.74             | 0.00              | 0.71             | 0.40             |
| 150          | 12.58           | 34.74             | 0.00              | 0.35             | 0.40             |
| 200          | 11.31           | 34.71             | --                | --               | 0.39             |
| 350          | 9.52            | 34.60             | --                | --               | 0.13             |
| 500          | 7.58            | 34.54             | --                | --               | 0.19             |
| 1000         | 4.38            | 34.52             | --                | --               | --               |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-110      | Date - GMT | 4 NOV 89 |
| Station Name | D894-110   | Time - GMT | 1051     |
| Latitude     | 13.46.2 N  | Date - LOC | 4 NOV 89 |
| Longitude    | 107.32.3 W | Time - LOC | 0451     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.70           | 33.67             | 0.12              | 0.06             | --               |
| 20           | 28.46           | 34.07             | 0.10              | 0.04             | 4.92             |
| 40           | 27.45           | 34.12             | 0.36              | 0.29             | 5.08             |
| 60           | 20.14           | 34.32             | 0.43              | 0.89             | 4.01             |
| 80           | 16.23           | 34.61             | 0.07              | 0.59             | 0.97             |
| 100          | 14.45           | 34.69             | 0.00              | 0.85             | 0.42             |
| 125          | 13.46           | 34.75             | 0.00              | 0.35             | 0.36             |
| 150          | 12.58           | 34.73             | 0.00              | 0.22             | 0.36             |
| 200          | 11.58           | 34.72             | --                | --               | 0.36             |
| 350          | 9.68            | 34.62             | --                | --               | 0.41             |
| 500          | 7.45            | 34.53             | --                | --               | 0.15             |
| 1000         | 4.33            | 34.53             | --                | --               | 0.73             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-111      | Date - GMT | 5 NOV 89 |
| Station Name | D894-111   | Time - GMT | 0218     |
| Latitude     | 12.35.9 N  | Date - LOC | 4 NOV 89 |
| Longitude    | 108.42.9 W | Time - LOC | 2018     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.60        | 33.20          | 0.13           | 0.04          | --            |
| 20        | 28.16        | 33.24          | 0.15           | 0.09          | 4.81          |
| 40        | 24.64        | 34.17          | 0.58           | 0.43          | 5.03          |
| 60        | 19.10        | 34.47          | 0.34           | 1.36          | 2.48          |
| 80        | 16.37        | 34.61          | 0.01           | 0.48          | 0.67          |
| 100       | 14.73        | 34.77          | 0.00           | 0.67          | 0.47          |
| 125       | 13.45        | 34.77          | 0.00           | 0.54          | 0.41          |
| 150       | 12.76        | 34.76          | 0.00           | 0.33          | 0.40          |
| 200       | 11.73        | 34.73          | --             | --            | 0.40          |
| 350       | 9.74         | 34.63          | --             | --            | 0.17          |
| 500       | 7.53         | 34.53          | --             | --            | 0.19          |
| 1000      | 4.24         | 34.53          | --             | --            | 0.91          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-112      | Date - GMT | 5 NOV 89 |
| Station Name | D894-112   | Time - GMT | 1050     |
| Latitude     | 12.52.6 N  | Date - LOC | 5 NOV 89 |
| Longitude    | 107.49.8 W | Time - LOC | 0450     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.50        | 33.12          | 0.12           | 0.06          | --            |
| 20        | 28.19        | 33.38          | 0.15           | 0.10          | 4.92          |
| 40        | 24.38        | 34.21          | 0.59           | 0.43          | 4.97          |
| 60        | 19.85        | 34.60          | 0.21           | 1.24          | 2.69          |
| 80        | 15.91        | 34.65          | 0.00           | 0.37          | 0.54          |
| 100       | 13.94        | 34.72          | 0.00           | 0.67          | 0.38          |
| 125       | 12.76        | 34.78          | 0.01           | 0.35          | 0.35          |
| 150       | 12.41        | 34.74          | 0.01           | 0.22          | 0.35          |
| 200       | 11.62        | 34.73          | --             | --            | 0.37          |
| 350       | 9.31         | 34.60          | --             | --            | 0.41          |
| 500       | 7.48         | 34.54          | --             | --            | 0.18          |
| 1000      | 4.43         | 34.54          | --             | --            | 0.64          |



|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-113      | Date - GMT | 6 NOV 89 |
| Station Name | D894-113   | Time - GMT | 0217     |
| Latitude     | 13.43.3 N  | Date - LOC | 5 NOV 89 |
| Longitude    | 105.47.3 W | Time - LOC | 2017     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.97          | 0.12           | 0.04          | --            |
| 20        | 29.01        | 34.02          | 0.14           | 0.06          | 4.89          |
| 40        | 26.63        | 33.99          | 0.35           | 0.25          | 4.86          |
| 60        | 16.94        | 34.77          | 0.12           | 0.68          | 1.31          |
| 80        | 14.97        | 34.71          | 0.01           | 0.31          | 0.48          |
| 100       | 13.88        | 34.76          | 0.03           | 0.39          | 0.42          |
| 125       | 13.00        | 34.75          | 0.01           | 0.30          | 0.40          |
| 150       | 12.50        | 34.75          | 0.00           | 0.23          | 0.41          |
| 200       | 11.78        | 34.72          | --             | --            | 0.46          |
| 350       | 9.76         | 34.63          | --             | --            | 0.16          |
| 500       | 7.73         | 34.53          | --             | --            | 0.16          |
| 1000      | 4.58         | 34.53          | --             | --            | 0.77          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-114      | Date - GMT | 6 NOV 89 |
| Station Name | D894-114   | Time - GMT | 1054     |
| Latitude     | 14.10.2 N  | Date - LOC | 6 NOV 89 |
| Longitude    | 104.46.5 W | Time - LOC | 0454     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 29.40        | 33.68          | 0.14           | 0.07          | --            |
| 20        | 28.57        | 33.94          | 0.15           | 0.09          | 4.92          |
| 40        | 22.11        | 34.33          | 0.89           | 0.72          | 4.95          |
| 60        | 17.22        | 34.42          | 0.43           | 0.72          | 2.33          |
| 80        | 14.88        | 34.63          | 0.00           | 0.38          | 0.64          |
| 100       | 13.57        | 34.71          | 0.00           | 1.05          | 0.44          |
| 125       | 12.87        | 34.75          | 0.01           | 0.45          | 0.39          |
| 150       | 12.28        | 34.75          | 0.00           | 0.27          | 0.38          |
| 200       | 11.66        | 34.73          | --             | --            | 0.38          |
| 350       | 9.71         | 34.64          | --             | --            | 0.39          |
| 500       | 7.80         | 34.56          | --             | --            | 0.14          |
| 1000      | 4.40         | 34.54          | --             | --            | 0.43          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-115      | Date - GMT | 7 NOV 89 |
| Station Name | D894-115   | Time - GMT | 0218     |
| Latitude     | 12. 9.6 N  | Date - LOC | 6 NOV 89 |
| Longitude    | 105.38.4 W | Time - LOC | 2018     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 29.00           | 33.24             | 0.13              | 0.04             | --               |
| 20           | 28.63           | 33.28             | 0.12              | 0.06             | 5.10             |
| 40           | 26.74           | 33.57             | 0.44              | 0.20             | 4.87             |
| 60           | 19.71           | 34.52             | 0.29              | 0.45             | 0.85             |
| 80           | 16.34           | 34.67             | 0.10              | 0.58             | 0.45             |
| 100          | 14.32           | 34.74             | 0.00              | 0.71             | 0.39             |
| 125          | 13.22           | 34.78             | 0.00              | 0.57             | 0.39             |
| 150          | 12.64           | 34.78             | 0.00              | 0.24             | 0.38             |
| 200          | 11.79           | 34.75             | --                | --               | 0.43             |
| 350          | 9.69            | 34.64             | --                | --               | 0.18             |
| 500          | 7.68            | 34.55             | --                | --               | 0.22             |
| 1000         | 4.42            | 34.54             | --                | --               | 1.02             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-116      | Date - GMT | 7 NOV 89 |
| Station Name | D894-116   | Time - GMT | 1051     |
| Latitude     | 11. 5.8 N  | Date - LOC | 7 NOV 89 |
| Longitude    | 106.17.7 W | Time - LOC | 0451     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.50           | 33.27             | 0.15              | 0.07             | --               |
| 20           | 28.14           | 33.42             | 0.16              | 0.07             | 4.94             |
| 40           | 26.55           | 33.59             | 0.44              | 0.36             | 4.75             |
| 60           | 20.14           | 34.52             | 0.25              | 0.49             | 2.19             |
| 80           | 16.74           | 34.69             | 0.10              | 0.37             | 0.74             |
| 100          | 14.42           | 34.81             | 0.00              | 0.43             | 0.52             |
| 125          | 13.42           | 34.82             | 0.02              | 0.13             | 0.43             |
| 150          | 12.94           | 34.81             | 0.00              | 0.08             | 0.48             |
| 200          | 12.34           | 34.78             | --                | --               | 0.43             |
| 350          | 10.03           | 34.67             | --                | --               | 0.42             |
| 500          | 7.91            | 34.57             | --                | --               | 0.21             |
| 1000         | 4.35            | 34.54             | --                | --               | 0.68             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-117      | Date - GMT | 8 NOV 89 |
| Station Name | D894-117   | Time - GMT | 0217     |
| Latitude     | 9. 4.4 N   | Date - LOC | 7 NOV 89 |
| Longitude    | 106.10.8 W | Time - LOC | 2017     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.30           | 33.17             | 0.10              | 0.05             | --               |
| 20           | 27.69           | 33.27             | 0.38              | 0.20             | 4.72             |
| 40           | 26.12           | 33.84             | 0.24              | 0.45             | 4.83             |
| 60           | 18.28           | 34.44             | 0.08              | 0.29             | 2.41             |
| 80           | 15.39           | 34.73             | 0.05              | 0.20             | 0.66             |
| 100          | 13.74           | 34.79             | 0.02              | 0.09             | 0.55             |
| 125          | 12.85           | 34.83             | 0.02              | 0.06             | 0.50             |
| 150          | 12.43           | 34.82             | 0.00              | 0.05             | 0.57             |
| 200          | 11.44           | 34.73             | --                | --               | 0.75             |
| 350          | 9.96            | 34.69             | --                | --               | 0.30             |
| 500          | 8.10            | 34.58             | --                | --               | 0.16             |
| 1000         | 4.48            | 34.54             | --                | --               | 1.05             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-118      | Date - GMT | 8 NOV 89 |
| Station Name | D894-118   | Time - GMT | 1051     |
| Latitude     | 8. 1.3 N   | Date - LOC | 8 NOV 89 |
| Longitude    | 106. 4.2 W | Time - LOC | 0451     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.80           | 32.99             | 0.14              | 0.07             | --               |
| 20           | 27.51           | 33.13             | 0.28              | 0.18             | 3.38             |
| 40           | 24.45           | 34.19             | 0.23              | 0.41             | 4.86             |
| 60           | 17.62           | 34.87             | 0.06              | 0.31             | 2.23             |
| 80           | 14.00           | 34.79             | 0.05              | 0.14             | 0.79             |
| 100          | 13.19           | 34.83             | 0.01              | 0.05             | 0.62             |
| 125          | 12.55           | 34.80             | 0.00              | 0.05             | 0.78             |
| 150          | 12.21           | 34.79             | 0.00              | 0.04             | 0.85             |
| 200          | 11.51           | 34.76             | --                | --               | 0.95             |
| 350          | 10.05           | 34.68             | --                | --               | 0.53             |
| 500          | 7.98            | 34.58             | --                | --               | 1.00             |
| 1000         | 4.36            | 34.55             | --                | --               | 0.98             |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-119      | Date - GMT | 9 NOV 89 |
| Station Name | D894-119   | Time - GMT | 0219     |
| Latitude     | 6.15.7 N   | Date - LOC | 8 NOV 89 |
| Longitude    | 105.37.9 W | Time - LOC | 2019     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 33.16          | 0.12           | 0.06          | --            |
| 20        | 27.02        | 33.18          | 0.31           | 0.22          | 3.90          |
| 40        | 26.11        | 33.73          | 0.28           | 0.31          | 4.66          |
| 60        | 22.22        | 34.57          | 0.13           | 0.35          | 2.64          |
| 80        | 15.47        | 34.79          | 0.07           | 0.24          | 0.72          |
| 100       | 13.97        | 34.84          | 0.04           | 0.11          | 0.73          |
| 125       | 12.57        | 34.79          | 0.01           | 0.06          | 0.85          |
| 150       | 12.23        | 34.78          | 0.00           | 0.05          | 0.93          |
| 200       | 11.26        | 34.75          | --             | --            | 1.06          |
| 350       | 9.67         | 34.67          | --             | --            | 0.32          |
| 500       | 7.86         | 34.59          | --             | --            | 0.28          |
| 1000      | 4.48         | 34.54          | --             | --            | --            |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-120      | Date - GMT | 9 NOV 89 |
| Station Name | D894-120   | Time - GMT | 1052     |
| Latitude     | 6.53.7 N   | Date - LOC | 9 NOV 89 |
| Longitude    | 104.31.2 W | Time - LOC | 0452     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 32.78          | 0.14           | 0.07          | --            |
| 20        | 27.20        | 33.03          | 0.32           | 0.20          | 3.25          |
| 40        | 25.68        | 33.76          | 0.25           | 0.40          | 5.06          |
| 60        | 18.80        | 34.69          | 0.12           | 0.34          | 1.64          |
| 80        | 14.71        | 34.81          | 0.07           | 0.17          | 0.89          |
| 100       | 13.50        | 34.86          | 0.02           | 0.06          | 0.79          |
| 125       | 12.88        | 34.84          | 0.01           | 0.08          | 0.87          |
| 150       | 12.50        | 34.81          | 0.00           | 0.02          | 0.89          |
| 200       | 11.60        | 34.76          | --             | --            | 0.97          |
| 350       | 9.91         | 34.68          | --             | --            | 0.54          |
| 500       | 7.94         | 34.60          | --             | --            | --            |
| 1000      | 4.33         | 34.55          | --             | --            | 1.13          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-121      | Date - GMT | 10 NOV 89 |
| Station Name | D894-121   | Time - GMT | 0218      |
| Latitude     | 8.19.4 N   | Date - LOC | 9 NOV 89  |
| Longitude    | 102.39.8 W | Time - LOC | 2018      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.70        | 33.17          | 0.15           | 0.07          | --            |
| 20        | 27.47        | 33.25          | 0.17           | 0.09          | 4.87          |
| 40        | 24.02        | 34.18          | 0.27           | 0.18          | 2.86          |
| 60        | 17.49        | 34.68          | 0.18           | 0.58          | 0.68          |
| 80        | 14.84        | 34.83          | 0.12           | 0.57          | 0.49          |
| 100       | 13.37        | 34.83          | 0.08           | 0.23          | 0.71          |
| 125       | 12.62        | 34.81          | 0.01           | 0.09          | 0.60          |
| 150       | 12.21        | 34.78          | 0.00           | 0.06          | 0.86          |
| 200       | 11.72        | 34.76          | --             | --            | 0.94          |
| 350       | 9.93         | 34.68          | --             | --            | 0.33          |
| 500       | 7.67         | 34.57          | --             | --            | 0.11          |
| 1000      | 4.27         | 34.55          | --             | --            | 1.18          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-122      | Date - GMT | 10 NOV 89 |
| Station Name | D894-122   | Time - GMT | 1050      |
| Latitude     | 8.59.9 N   | Date - LOC | 10 NOV 89 |
| Longitude    | 101.45.5 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 33.27          | 0.30           | 0.15          | --            |
| 20        | 26.41        | 33.55          | 0.20           | 0.33          | 5.05          |
| 40        | 16.18        | 34.90          | 0.09           | 0.20          | 1.93          |
| 60        | 14.06        | 34.84          | 0.07           | 0.17          | 0.62          |
| 80        | 13.58        | 34.83          | 0.03           | 0.28          | 0.57          |
| 100       | 13.22        | 34.85          | 0.00           | 0.07          | 0.68          |
| 125       | 12.76        | 34.84          | 0.00           | 0.09          | 0.74          |
| 150       | 12.25        | 34.80          | 0.00           | 0.02          | 0.74          |
| 200       | 11.73        | 34.79          | --             | --            | 0.84          |
| 350       | 10.01        | 34.71          | --             | --            | 0.11          |
| 500       | 7.96         | 34.59          | --             | --            | 0.21          |
| 1000      | 4.40         | 34.54          | --             | --            | 1.02          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-123      | Date - GMT | 11 NOV 89 |
| Station Name | D894-123   | Time - GMT | 0217      |
| Latitude     | 10. 7.4 N  | Date - LOC | 10 NOV 89 |
| Longitude    | 100.15.8 W | Time - LOC | 2017      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.20        | 33.31          | 0.18           | 0.12          | --            |
| 20        | 27.45        | 33.41          | 0.60           | 0.33          | 4.50          |
| 40        | 16.30        | 34.68          | 0.32           | 0.99          | 1.20          |
| 60        | 13.87        | 34.78          | 0.09           | 0.24          | 0.44          |
| 80        | 13.08        | 34.81          | 0.03           | 0.11          | 0.48          |
| 100       | 12.58        | 34.78          | 0.01           | 0.08          | 0.65          |
| 125       | 12.17        | 34.75          | 0.01           | 0.09          | 0.87          |
| 150       | 11.84        | 34.75          | 0.00           | 0.07          | 0.97          |
| 200       | 11.26        | 34.73          | --             | --            | 0.92          |
| 350       | 9.93         | 34.66          | --             | --            | 0.23          |
| 500       | 7.96         | 34.55          | --             | --            | 0.16          |
| 1000      | 4.47         | 34.54          | --             | --            | 0.85          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-124     | Date - GMT | 11 NOV 89 |
| Station Name | D894-124  | Time - GMT | 1050      |
| Latitude     | 10.31.0 N | Date - LOC | 11 NOV 89 |
| Longitude    | 99.10.1 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 33.39          | 0.28           | 0.11          | --            |
| 20        | 26.84        | 33.49          | 0.40           | 0.30          | 4.89          |
| 40        | 18.54        | 34.65          | 0.37           | 0.64          | 2.57          |
| 60        | 14.23        | 34.84          | 0.05           | 0.19          | 0.52          |
| 80        | 13.84        | 34.83          | 0.01           | 0.32          | 0.43          |
| 100       | 13.30        | 34.85          | 0.00           | 0.11          | 0.40          |
| 125       | 12.87        | 34.80          | 0.00           | 0.10          | 0.49          |
| 150       | 12.57        | 34.80          | 0.00           | 0.08          | 0.48          |
| 200       | 11.90        | 34.74          | --             | --            | 0.44          |
| 350       | 9.64         | 34.64          | --             | --            | 0.40          |
| 500       | 7.93         | 34.57          | --             | --            | 0.14          |
| 1000      | 4.45         | 34.54          | --             | --            | 0.50          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-125     | Date - GMT | 12 NOV 89 |
| Station Name | D894-125  | Time - GMT | 0217      |
| Latitude     | 11. 1.4 N | Date - LOC | 11 NOV 89 |
| Longitude    | 97.16.0 W | Time - LOC | 2017      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.60           | 33.26             | 0.42              | 0.24             | --               |
| 20           | 26.53           | 33.44             | 0.95              | 0.67             | 4.98             |
| 40           | 20.32           | 34.29             | 0.57              | 0.59             | 3.89             |
| 60           | 14.95           | 34.69             | 0.08              | 0.25             | 0.53             |
| 80           | 13.69           | 34.83             | 0.03              | 0.22             | 0.39             |
| 100          | 13.17           | 34.82             | 0.03              | 0.13             | 0.42             |
| 125          | 12.89           | 34.82             | 0.01              | 0.09             | 0.40             |
| 150          | 12.51           | 34.79             | 0.01              | 0.06             | 0.66             |
| 200          | 11.88           | 34.76             | --                | --               | 0.42             |
| 350          | 9.93            | 34.66             | --                | --               | 0.14             |
| 500          | 7.92            | 34.58             | --                | --               | 0.13             |
| 1000         | 4.61            | 34.54             | --                | --               | 0.84             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-126     | Date - GMT | 12 NOV 89 |
| Station Name | D894-126  | Time - GMT | 1050      |
| Latitude     | 11. 5.7 N | Date - LOC | 12 NOV 89 |
| Longitude    | 96.11.6 W | Time - LOC | 0450      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.60           | 33.08             | 0.58              | 0.21             | --               |
| 20           | 25.11           | 33.61             | 1.87              | 1.29             | 3.36             |
| 40           | 18.18           | 34.60             | 0.11              | 0.14             | 2.69             |
| 60           | 14.29           | 34.80             | 0.02              | 0.34             | 0.51             |
| 80           | 13.31           | 34.83             | 0.02              | 0.15             | 0.53             |
| 100          | 13.01           | 34.82             | 0.01              | 0.11             | 0.58             |
| 125          | 12.56           | 34.81             | 0.01              | 0.09             | 0.62             |
| 150          | 12.32           | 34.79             | 0.00              | 0.08             | 0.61             |
| 200          | 11.60           | 34.76             | --                | --               | 0.73             |
| 350          | 9.85            | 34.67             | --                | --               | 0.46             |
| 500          | 7.90            | 34.60             | --                | --               | 0.15             |
| 1000         | 4.62            | 34.54             | --                | --               | 0.45             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-127     | Date - GMT | 13 NOV 89 |
| Station Name | D894-127  | Time - GMT | 0215      |
| Latitude     | 11.33.5 N | Date - LOC | 12 NOV 89 |
| Longitude    | 93.52.6 W | Time - LOC | 2015      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.40           | 33.04             | 0.19              | 0.14             | --               |
| 20           | 22.92           | 34.22             | 0.58              | 0.33             | 3.74             |
| 40           | 14.67           | 34.72             | 0.19              | 0.59             | 1.19             |
| 60           | 13.80           | 34.78             | 0.06              | 0.45             | 0.56             |
| 80           | 13.23           | 34.79             | 0.05              | 0.20             | 0.66             |
| 100          | 12.96           | 34.78             | 0.02              | 0.10             | 0.76             |
| 125          | 12.53           | 34.80             | 0.00              | 0.11             | 0.75             |
| 150          | 12.32           | 34.78             | 0.01              | 0.11             | 0.74             |
| 200          | 11.78           | 34.75             | --                | --               | 0.71             |
| 350          | 10.08           | 34.66             | --                | --               | 0.13             |
| 500          | 8.06            | 34.57             | --                | --               | 0.14             |
| 1000         | 4.42            | 34.55             | --                | --               | 0.72             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-128     | Date - GMT | 13 NOV 89 |
| Station Name | D894-128  | Time - GMT | 1054      |
| Latitude     | 11.46.6 N | Date - LOC | 13 NOV 89 |
| Longitude    | 92.51.6 W | Time - LOC | 0454      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 29.00           | 33.02             | 0.22              | 0.13             | --               |
| 20           | 28.92           | 33.30             | 0.19              | 0.34             | 5.04             |
| 40           | 16.76           | 34.78             | 0.10              | 0.29             | 2.48             |
| 60           | 14.57           | 34.80             | 0.05              | 0.24             | 0.66             |
| 80           | 13.62           | 34.82             | 0.04              | 0.13             | 0.53             |
| 100          | 13.30           | 34.82             | 0.01              | 0.11             | 0.79             |
| 125          | 12.93           | 34.81             | 0.00              | 0.11             | 0.73             |
| 150          | 12.66           | 34.80             | 0.00              | 0.22             | 0.74             |
| 200          | 12.02           | 34.77             | --                | --               | 0.62             |
| 350          | 10.20           | 34.67             | --                | --               | 0.32             |
| 500          | 7.84            | 34.57             | --                | --               | 0.41             |
| 1000         | 4.33            | 34.55             | --                | --               | 0.46             |



|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-129     | Date - GMT | 14 NOV 89 |
| Station Name | D894-129  | Time - GMT | 0217      |
| Latitude     | 11.35.0 N | Date - LOC | 13 NOV 89 |
| Longitude    | 91.13.1 W | Time - LOC | 2017      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.10           | 33.41             | 0.30              | 0.18             | --               |
| 20           | 27.49           | 33.61             | 0.96              | 0.35             | 4.62             |
| 40           | 19.76           | 34.59             | 0.87              | 0.74             | 2.47             |
| 60           | 16.52           | 34.76             | 0.14              | 0.18             | 0.93             |
| 80           | 14.43           | 34.83             | 0.06              | 0.17             | 0.86             |
| 100          | 13.76           | 34.85             | 0.04              | 0.11             | 0.82             |
| 125          | 13.52           | 34.87             | 0.01              | 0.07             | 0.65             |
| 150          | 13.13           | 34.84             | 0.00              | 0.06             | 0.69             |
| 200          | 12.70           | 34.83             | --                | --               | 0.58             |
| 350          | 11.01           | 34.72             | --                | --               | 0.34             |
| 500          | 8.79            | 34.61             | --                | --               | 0.21             |
| 1000         | 4.72            | 34.53             | --                | --               | 0.54             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-130     | Date - GMT | 14 NOV 89 |
| Station Name | D894-130  | Time - GMT | 1050      |
| Latitude     | 10.36.3 N | Date - LOC | 14 NOV 89 |
| Longitude    | 91.51.5 W | Time - LOC | 0450      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 21.80           | 33.23             | 0.23              | 0.13             | --               |
| 20           | 18.53           | 34.66             | 0.47              | 0.50             | 1.45             |
| 40           | 14.93           | 34.86             | 0.11              | 0.43             | 1.03             |
| 60           | 14.15           | 34.88             | 0.05              | 0.26             | 0.71             |
| 80           | 13.71           | 34.88             | 0.06              | 0.08             | 0.70             |
| 100          | 13.37           | 34.86             | 0.02              | 0.08             | 0.84             |
| 125          | 12.97           | 34.81             | 0.03              | 0.10             | 0.85             |
| 150          | 12.81           | 34.83             | 0.00              | 0.09             | 0.82             |
| 200          | 12.28           | 34.79             | --                | --               | 0.86             |
| 350          | 10.74           | 34.71             | --                | --               | 0.50             |
| 500          | 8.72            | 34.61             | --                | --               | 0.16             |
| 1000         | 4.81            | 34.54             | --                | --               | 0.43             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-131     | Date - GMT | 15 NOV 89 |
| Station Name | D894-131  | Time - GMT | 0217      |
| Latitude     | 8.56.8 N  | Date - LOC | 14 NOV 89 |
| Longitude    | 92.51.9 W | Time - LOC | 2017      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.50        | 32.89          | 0.15           | 0.08          | --            |
| 20        | 19.90        | 34.46          | 0.37           | 0.40          | 2.64          |
| 40        | 14.98        | 34.81          | 0.29           | 0.40          | 1.30          |
| 60        | 14.11        | 34.86          | 0.16           | 0.31          | 1.04          |
| 80        | 13.55        | 34.82          | 0.07           | 0.18          | 0.76          |
| 100       | 13.20        | 34.79          | 0.04           | 0.13          | 0.85          |
| 125       | 13.08        | 34.84          | 0.02           | 0.10          | 1.22          |
| 150       | 12.88        | 34.83          | 0.01           | 0.08          | 0.79          |
| 200       | 12.06        | 34.78          | --             | --            | 0.95          |
| 350       | 10.67        | 34.70          | --             | --            | 0.89          |
| 500       | 8.69         | 34.61          | --             | --            | 0.10          |
| 1000      | 4.55         | 34.54          | --             | --            | 0.90          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-132     | Date - GMT | 15 NOV 89 |
| Station Name | D894-132  | Time - GMT | 1121      |
| Latitude     | 7.55.9 N  | Date - LOC | 15 NOV 89 |
| Longitude    | 93.28.2 W | Time - LOC | 0521      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.00        | 32.57          | 0.51           | 0.20          | --            |
| 20        | 25.42        | 33.57          | 0.76           | 0.48          | 3.30          |
| 40        | 15.93        | 34.73          | 0.30           | 0.52          | 1.05          |
| 60        | 14.25        | 34.75          | 0.15           | 0.31          | 0.89          |
| 80        | 13.39        | 34.83          | 0.09           | 0.21          | 0.76          |
| 100       | 13.05        | 34.83          | 0.05           | 0.08          | 0.80          |
| 125       | 12.68        | 34.82          | 0.00           | 0.04          | 1.02          |
| 150       | 12.28        | 34.82          | 0.00           | 0.04          | 0.64          |
| 200       | 11.37        | 34.75          | --             | --            | 0.99          |
| 350       | 10.07        | 34.68          | --             | --            | 0.85          |
| 500       | 8.60         | 34.62          | --             | --            | 0.28          |
| 1000      | 4.86         | 34.55          | --             | --            | 0.67          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-133     | Date - GMT | 16 NOV 89 |
| Station Name | D894-133  | Time - GMT | 0218      |
| Latitude     | 6.29.3 N  | Date - LOC | 15 NOV 89 |
| Longitude    | 94.37.6 W | Time - LOC | 2018      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.20           | 32.91             | 0.16              | 0.09             | --               |
| 20           | 26.75           | 33.09             | 0.20              | 0.09             | 4.90             |
| 40           | 25.54           | 33.81             | 0.29              | 0.40             | 4.12             |
| 60           | 18.36           | 34.61             | 0.21              | 0.39             | 1.73             |
| 80           | 14.42           | 34.71             | 0.13              | 0.27             | 1.24             |
| 100          | 13.54           | 34.82             | 0.08              | 0.25             | 0.79             |
| 125          | 12.69           | 34.79             | 0.03              | 0.09             | 0.82             |
| 150          | 11.97           | 34.76             | 0.00              | 0.05             | 1.05             |
| 200          | 11.54           | 34.75             | --                | --               | 1.15             |
| 350          | 9.94            | 34.67             | --                | --               | 0.56             |
| 500          | 8.36            | 34.60             | --                | --               | 0.21             |
| 1000         | 4.66            | 34.55             | --                | --               | 1.11             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-134     | Date - GMT | 16 NOV 89 |
| Station Name | D894-134  | Time - GMT | 1051      |
| Latitude     | 5.32.8 N  | Date - LOC | 16 NOV 89 |
| Longitude    | 95. 8.6 W | Time - LOC | 0451      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 26.80           | 33.13             | 0.11              | 0.06             | --               |
| 20           | 26.57           | 33.18             | 0.12              | 0.06             | 5.06             |
| 40           | 26.38           | 33.49             | 0.22              | 0.20             | 5.15             |
| 60           | 20.21           | 34.43             | 0.17              | 0.33             | 2.72             |
| 80           | 14.72           | 34.76             | 0.12              | 0.25             | 0.99             |
| 100          | 13.34           | 34.82             | 0.05              | 0.16             | 0.83             |
| 125          | 12.39           | 34.70             | 0.02              | 0.06             | 1.64             |
| 150          | 12.07           | 34.76             | 0.00              | 0.04             | 1.05             |
| 200          | 11.15           | 34.72             | --                | --               | 1.31             |
| 350          | 9.84            | 34.68             | --                | --               | 1.11             |
| 500          | 8.32            | 34.61             | --                | --               | 0.19             |
| 1000         | 4.56            | 34.54             | --                | --               | 1.06             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-135     | Date - GMT | 17 NOV 89 |
| Station Name | D894-135  | Time - GMT | 0217      |
| Latitude     | 4.37.1 N  | Date - LOC | 16 NOV 89 |
| Longitude    | 96.21.3 W | Time - LOC | 2017      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.60        | 33.40          | 0.10           | 0.05          | --            |
| 20        | 26.34        | 33.48          | 0.11           | 0.05          | 4.77          |
| 40        | 26.31        | 33.48          | 0.16           | 0.06          | 5.10          |
| 60        | 25.08        | 33.98          | 0.30           | 0.22          | 4.53          |
| 80        | 15.10        | 34.94          | 0.25           | 0.34          | 2.00          |
| 100       | 14.05        | 34.89          | 0.15           | 0.24          | 1.46          |
| 125       | 13.43        | 34.89          | 0.05           | 0.09          | 1.29          |
| 150       | 13.12        | 34.87          | 0.02           | 0.04          | 1.38          |
| 200       | 12.37        | 34.83          | --             | --            | 1.01          |
| 350       | 9.89         | 34.68          | --             | --            | 0.93          |
| 500       | 7.97         | 34.60          | --             | --            | 0.58          |
| 1000      | 4.56         | 34.55          | --             | --            | 1.54          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-136     | Date - GMT | 17 NOV 89 |
| Station Name | D894-136  | Time - GMT | 1054      |
| Latitude     | 5.22.7 N  | Date - LOC | 17 NOV 89 |
| Longitude    | 97.11.5 W | Time - LOC | 0454      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.80        | 33.24          | 0.19           | 0.11          | --            |
| 20        | 26.60        | 33.31          | 0.21           | 0.09          | 4.89          |
| 40        | 26.60        | 33.41          | 0.32           | 0.24          | 5.00          |
| 60        | 23.27        | 34.47          | 0.30           | 0.45          | 4.06          |
| 80        | 17.09        | 34.67          | 0.24           | 0.59          | 1.47          |
| 100       | 13.64        | 34.68          | 0.12           | 0.26          | 0.88          |
| 125       | 12.60        | 34.78          | 0.03           | 0.09          | 1.17          |
| 150       | 12.08        | 34.77          | 0.00           | 0.04          | 0.95          |
| 200       | 11.49        | 34.74          | --             | --            | 1.05          |
| 350       | 9.77         | 34.67          | --             | --            | 0.92          |
| 500       | 8.00         | 34.59          | --             | --            | 0.41          |
| 1000      | 4.63         | 34.55          | --             | --            | 1.15          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-137     | Date - GMT | 18 NOV 89 |
| Station Name | D894-137  | Time - GMT | 0220      |
| Latitude     | 6.45.3 N  | Date - LOC | 17 NOV 89 |
| Longitude    | 98.43.9 W | Time - LOC | 2020      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.60           | 33.02             | 0.16              | 0.06             | --               |
| 20           | 26.98           | 33.09             | 0.20              | 0.08             | 5.30             |
| 40           | 19.57           | 34.36             | 0.43              | 0.58             | 2.85             |
| 60           | 14.84           | 34.76             | 0.09              | 0.46             | 0.75             |
| 80           | 13.34           | 34.76             | 0.08              | 0.29             | 0.79             |
| 100          | 12.44           | 34.74             | 0.03              | 0.10             | 0.97             |
| 125          | 11.94           | 34.73             | 0.00              | 0.06             | 1.18             |
| 150          | 11.69           | 34.73             | 0.00              | 0.05             | 1.15             |
| 200          | 11.10           | 34.72             | --                | --               | 1.21             |
| 350          | 9.70            | 34.66             | --                | --               | 0.19             |
| 500          | 7.98            | 34.59             | --                | --               | 0.16             |
| 1000         | 4.42            | 34.54             | --                | --               | --               |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-138     | Date - GMT | 18 NOV 89 |
| Station Name | D894-138  | Time - GMT | 1052      |
| Latitude     | 6.39.1 N  | Date - LOC | 18 NOV 89 |
| Longitude    | 99.26.6 W | Time - LOC | 0452      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.30           | 32.98             | 0.18              | 0.09             | --               |
| 20           | 26.93           | 33.14             | 0.29              | 0.14             | 4.83             |
| 40           | 21.19           | 34.69             | 0.27              | 0.49             | 4.39             |
| 60           | 15.33           | 34.41             | 0.29              | 0.47             | 0.86             |
| 80           | 13.43           | 34.83             | 0.08              | 0.39             | 0.76             |
| 100          | 12.82           | 34.78             | 0.06              | 0.28             | 0.82             |
| 125          | 12.21           | 34.76             | 0.03              | 0.11             | 0.97             |
| 150          | 11.91           | 34.76             | 0.01              | 0.06             | 0.93             |
| 200          | 11.30           | 34.73             | --                | --               | 1.17             |
| 350          | 9.63            | 34.67             | --                | --               | 0.82             |
| 500          | 8.12            | 34.60             | --                | --               | 0.27             |
| 1000         | 4.57            | 34.54             | --                | --               | 0.97             |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-139     | Date - GMT | 19 NOV 89 |
| Station Name | D894-139  | Time - GMT | 0216      |
| Latitude     | 4.37.3 N  | Date - LOC | 18 NOV 89 |
| Longitude    | 99.42.6 W | Time - LOC | 2016      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.60        | 33.63          | 0.18           | 0.08          | --            |
| 20        | 26.41        | 33.71          | 0.20           | 0.08          | 4.95          |
| 40        | 26.41        | 33.71          | 0.21           | 0.09          | 4.93          |
| 60        | 25.78        | 33.79          | 0.34           | 0.36          | 4.68          |
| 80        | 14.91        | 34.83          | 0.16           | 0.29          | 2.10          |
| 100       | 13.53        | 34.86          | 0.09           | 0.21          | 1.35          |
| 125       | 13.00        | 34.87          | 0.03           | 0.06          | 1.31          |
| 150       | 12.73        | 34.86          | 0.00           | 0.05          | 1.26          |
| 200       | 12.19        | 34.82          | --             | --            | 1.19          |
| 350       | 10.19        | 34.68          | --             | --            | 1.07          |
| 500       | 8.35         | 34.60          | --             | --            | 0.31          |
| 1000      | 4.52         | 34.55          | --             | --            | 1.51          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-140     | Date - GMT | 19 NOV 89 |
| Station Name | D894-140  | Time - GMT | 1050      |
| Latitude     | 3.33.0 N  | Date - LOC | 19 NOV 89 |
| Longitude    | 99.46.9 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.20        | 33.77          | 0.16           | 0.10          | --            |
| 20        | 25.93        | 33.85          | 0.20           | 0.08          | 4.93          |
| 40        | 25.93        | 33.85          | 0.18           | 0.09          | 5.11          |
| 60        | 22.80        | 33.32          | 0.22           | 0.49          | 4.33          |
| 80        | 15.76        | 34.89          | 0.17           | 0.47          | 1.89          |
| 100       | 13.96        | 34.89          | 0.09           | 0.23          | 1.69          |
| 125       | 13.57        | 34.89          | 0.05           | 0.11          | 1.83          |
| 150       | 13.39        | 34.90          | 0.02           | 0.07          | 1.82          |
| 200       | 13.06        | 34.88          | --             | --            | 1.79          |
| 350       | 10.99        | 34.72          | --             | --            | 1.29          |
| 500       | 8.17         | 34.61          | --             | --            | 0.74          |
| 1000      | 4.46         | 34.55          | --             | --            | 1.25          |

|              |           |            |           |
|--------------|-----------|------------|-----------|
| Station No.  | 4-141     | Date - GMT | 20 NOV 89 |
| Station Name | D894-141  | Time - GMT | 0221      |
| Latitude     | 1.25.8 N  | Date - LOC | 19 NOV 89 |
| Longitude    | 99.57.8 W | Time - LOC | 2021      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 25.20        | 33.67          | 0.24           | 0.07          | --            |
| 20        | 24.92        | 33.72          | 0.24           | 0.08          | 4.85          |
| 40        | 21.77        | 34.41          | 0.31           | 0.17          | 4.47          |
| 60        | 17.20        | 34.82          | 0.44           | 0.48          | 3.48          |
| 80        | 14.98        | 34.91          | 0.25           | 0.36          | 1.64          |
| 100       | 14.06        | 34.91          | 0.11           | 0.27          | 1.58          |
| 125       | 13.70        | 34.92          | 0.05           | 0.10          | 2.07          |
| 150       | 13.41        | 34.90          | 0.01           | 0.05          | 1.71          |
| 200       | 13.07        | 34.89          | --             | --            | 1.30          |
| 350       | 10.69        | 34.75          | --             | --            | 0.37          |
| 500       | 8.56         | 34.63          | --             | --            | 0.63          |
| 1000      | 4.46         | 34.53          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-142      | Date - GMT | 20 NOV 89 |
| Station Name | D894-142   | Time - GMT | 1051      |
| Latitude     | 1. 9.4 N   | Date - LOC | 20 NOV 89 |
| Longitude    | 101.21.7 W | Time - LOC | 0451      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 24.70        | 33.77          | 0.29           | 0.14          | --            |
| 20        | 24.24        | 33.92          | 0.27           | 0.32          | 5.09          |
| 40        | 19.26        | 34.72          | 0.19           | 0.34          | 3.49          |
| 60        | 15.96        | 34.91          | 0.13           | 0.24          | 1.70          |
| 80        | 14.25        | 34.94          | 0.06           | 0.19          | 1.63          |
| 100       | 13.84        | 34.91          | 0.03           | 0.08          | 1.71          |
| 125       | 13.58        | 34.91          | 0.01           | 0.05          | 1.92          |
| 150       | 13.32        | 34.90          | 0.00           | 0.03          | 1.77          |
| 200       | 12.76        | 34.87          | --             | --            | 1.13          |
| 350       | 9.78         | 34.69          | --             | --            | 0.74          |
| 500       | 7.77         | 34.59          | --             | --            | 1.87          |
| 1000      | 4.44         | 34.54          | --             | --            | 1.90          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-143      | Date - GMT | 21 NOV 89 |
| Station Name | D894-143   | Time - GMT | 0216      |
| Latitude     | 0.29.8 N   | Date - LOC | 20 NOV 89 |
| Longitude    | 103.53.7 W | Time - LOC | 2016      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 23.00        | 34.29          | 0.27           | 0.07          | --            |
| 20        | 21.84        | 34.51          | 0.30           | 0.12          | 3.22          |
| 40        | 18.98        | 34.77          | 0.23           | 0.10          | 3.95          |
| 60        | 15.08        | 34.81          | 0.18           | 0.10          | 2.28          |
| 80        | 14.55        | 34.88          | 0.11           | 0.10          | 2.53          |
| 100       | 13.83        | 34.89          | 0.06           | 0.05          | 2.41          |
| 125       | 13.51        | 34.89          | 0.04           | 0.05          | 2.56          |
| 150       | 13.35        | 34.88          | 0.01           | 0.04          | 2.48          |
| 200       | 12.90        | 34.88          | --             | --            | 2.22          |
| 350       | 10.66        | 34.74          | --             | --            | 0.85          |
| 500       | 8.00         | 34.60          | --             | --            | 0.90          |
| 1000      | 4.46         | 34.53          | --             | --            | --            |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-144      | Date - GMT | 21 NOV 89 |
| Station Name | D894-144   | Time - GMT | 1050      |
| Latitude     | 0.11.5 N   | Date - LOC | 21 NOV 89 |
| Longitude    | 105.14.3 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 21.00        | 34.87          | 0.15           | 0.06          | --            |
| 20        | 20.46        | 34.89          | 0.22           | 0.07          | 4.10          |
| 40        | 19.95        | 34.86          | 0.31           | 0.16          | 4.35          |
| 60        | 15.76        | 34.86          | 0.39           | 0.20          | 2.74          |
| 80        | 15.07        | 35.02          | 0.36           | 0.14          | 3.00          |
| 100       | 13.80        | 34.93          | 0.14           | 0.10          | 2.92          |
| 125       | 13.47        | 34.90          | 0.05           | 0.05          | 2.87          |
| 150       | 12.94        | 34.88          | 0.01           | 0.04          | 2.51          |
| 200       | 12.89        | 34.89          | --             | --            | 2.62          |
| 350       | 10.11        | 34.73          | --             | --            | 0.64          |
| 500       | 8.15         | 34.62          | --             | --            | 0.85          |
| 1000      | 4.38         | 34.53          | --             | --            | 1.98          |



|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-145      | Date - GMT | 22 NOV 89 |
| Station Name | D894-145   | Time - GMT | 0216      |
| Latitude     | 1.40.5 N   | Date - LOC | 21 NOV 89 |
| Longitude    | 107. 3.3 W | Time - LOC | 2016      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 21.70        | 34.74          | 0.16           | 0.03          | --            |
| 20        | 21.10        | 34.81          | 0.23           | 0.04          | 4.43          |
| 40        | 20.96        | 34.81          | 0.39           | 0.10          | 4.57          |
| 60        | 17.61        | 34.84          | 0.41           | 0.41          | 3.62          |
| 80        | 15.39        | 34.92          | 0.34           | 0.64          | 2.39          |
| 100       | 14.42        | 34.92          | 0.25           | 0.58          | 2.15          |
| 125       | 13.72        | 35.02          | 0.04           | 0.07          | 1.85          |
| 150       | 12.81        | 34.88          | 0.01           | 0.04          | 1.53          |
| 200       | 12.60        | 34.87          | --             | --            | 1.45          |
| 350       | 11.12        | 34.77          | --             | --            | 0.35          |
| 500       | 8.08         | 34.61          | --             | --            | 0.58          |
| 1000      | 4.38         | 34.51          | --             | --            | 2.28          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-146      | Date - GMT | 22 NOV 89 |
| Station Name | D894-146   | Time - GMT | 1052      |
| Latitude     | 2.41.1 N   | Date - LOC | 22 NOV 89 |
| Longitude    | 107.55.7 W | Time - LOC | 0452      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 24.80        | 34.03          | 0.15           | 0.07          | --            |
| 20        | 24.63        | 34.12          | 0.21           | 0.34          | 5.32          |
| 40        | 22.35        | 34.39          | 0.21           | 0.41          | 5.39          |
| 60        | 17.58        | 34.98          | 0.20           | 0.37          | 2.47          |
| 80        | 14.67        | 34.91          | 0.15           | 0.33          | 1.83          |
| 100       | 13.92        | 34.91          | 0.03           | 0.06          | 1.86          |
| 125       | 13.32        | 34.90          | 0.00           | 0.03          | 1.96          |
| 150       | 13.14        | 34.89          | 0.00           | 0.02          | 1.92          |
| 200       | 12.88        | 34.88          | --             | --            | 1.41          |
| 350       | 11.33        | 34.80          | --             | --            | 0.93          |
| 500       | 8.02         | 34.60          | --             | --            | 1.59          |
| 1000      | 4.40         | 34.54          | --             | --            | 1.62          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-147      | Date - GMT | 23 NOV 89 |
| Station Name | D894-147   | Time - GMT | 0219      |
| Latitude     | 3.33.5 N   | Date - LOC | 22 NOV 89 |
| Longitude    | 109.56.9 W | Time - LOC | 2019      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.70        | 33.89          | 0.22           | 0.09          | --            |
| 20        | 26.46        | 33.98          | 0.22           | 0.10          | 4.87          |
| 40        | 26.46        | 33.98          | 0.23           | 0.08          | 4.85          |
| 60        | 23.81        | 35.37          | 0.30           | 0.42          | 4.79          |
| 80        | 15.77        | 34.69          | 0.13           | 0.26          | 3.12          |
| 100       | 14.14        | 34.90          | 0.13           | 0.28          | 1.53          |
| 125       | 13.34        | 34.90          | 0.02           | 0.05          | 1.37          |
| 150       | 13.14        | 34.89          | 0.01           | 0.03          | 1.42          |
| 200       | 12.65        | 34.86          | --             | --            | 1.15          |
| 350       | 10.71        | 34.73          | --             | --            | 0.69          |
| 500       | 8.47         | 34.63          | --             | --            | 0.47          |
| 1000      | 4.54         | 34.54          | --             | --            | 1.75          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-148      | Date - GMT | 23 NOV 89 |
| Station Name | D894-148   | Time - GMT | 1057      |
| Latitude     | 3.49.8 N   | Date - LOC | 23 NOV 89 |
| Longitude    | 111. 8.8 W | Time - LOC | 0457      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 26.10        | 34.04          | 0.17           | 0.10          | --            |
| 20        | 25.85        | 34.13          | 0.19           | 0.11          | 4.97          |
| 40        | 25.44        | 34.20          | 0.21           | 0.12          | 4.82          |
| 60        | 24.40        | 34.34          | 0.22           | 0.15          | 4.84          |
| 80        | 23.06        | 34.54          | 0.13           | 0.26          | 4.20          |
| 100       | 15.70        | 34.71          | 0.07           | 0.13          | 2.10          |
| 125       | 13.50        | 34.86          | 0.04           | 0.07          | 1.54          |
| 150       | 13.18        | 34.88          | 0.00           | 0.02          | 1.17          |
| 200       | 12.56        | 34.83          | --             | --            | 1.49          |
| 350       | 10.23        | 34.70          | --             | --            | 1.55          |
| 500       | 8.52         | 34.62          | --             | --            | 1.38          |
| 1000      | 4.54         | 34.54          | --             | --            | 1.33          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-149      | Date - GMT | 24 NOV 89 |
| Station Name | D894-149   | Time - GMT | 0225      |
| Latitude     | 5.47.6 N   | Date - LOC | 23 NOV 89 |
| Longitude    | 111.38.9 W | Time - LOC | 1925      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.20           | 33.92             | 0.11              | 0.05             | --               |
| 20           | 26.96           | 34.02             | 0.12              | 0.05             | 4.79             |
| 40           | 26.94           | 34.05             | 0.30              | 0.15             | 4.78             |
| 60           | 26.56           | 34.50             | 0.36              | 0.36             | 4.59             |
| 80           | 23.65           | 34.63             | 0.37              | 0.47             | 3.27             |
| 100          | 16.48           | 35.05             | 0.20              | 0.39             | 1.16             |
| 125          | 13.68           | 34.74             | 0.06              | 0.15             | 0.78             |
| 150          | 12.81           | 34.77             | 0.04              | 0.09             | 0.91             |
| 200          | 11.68           | 34.74             | --                | --               | 1.27             |
| 350          | 10.03           | 34.68             | --                | --               | 0.46             |
| 500          | 8.19            | 34.61             | --                | --               | 0.20             |
| 1000         | 4.57            | 34.54             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-150      | Date - GMT | 24 NOV 89 |
| Station Name | D894-150   | Time - GMT | 1150      |
| Latitude     | 6.59.3 N   | Date - LOC | 24 NOV 89 |
| Longitude    | 111.55.9 W | Time - LOC | 0450      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.70           | 33.87             | 0.10              | 0.05             | --               |
| 20           | 27.38           | 33.94             | 0.10              | 0.04             | 4.79             |
| 40           | 27.36           | 33.95             | 0.13              | 0.06             | 4.86             |
| 60           | 26.24           | 34.32             | 0.32              | 0.20             | 4.76             |
| 80           | 20.04           | 34.62             | 0.29              | 0.34             | 2.49             |
| 100          | 15.31           | 34.74             | 0.28              | 0.35             | 1.04             |
| 125          | 13.44           | 34.79             | 0.18              | 0.25             | 0.67             |
| 150          | 12.34           | 34.78             | 0.06              | 0.25             | 0.68             |
| 200          | 11.43           | 34.75             | --                | --               | 0.86             |
| 350          | 9.79            | 34.68             | --                | --               | 0.78             |
| 500          | 7.99            | 34.59             | --                | --               | 0.36             |
| 1000         | 4.55            | 34.54             | --                | --               | --               |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-151      | Date - GMT | 25 NOV 89 |
| Station Name | D894-151   | Time - GMT | 0221      |
| Latitude     | 8.43.9 N   | Date - LOC | 24 NOV 89 |
| Longitude    | 112.23.6 W | Time - LOC | 1921      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 28.00        | 33.58          | 0.09           | 0.03          | --            |
| 20        | 27.61        | 33.63          | 0.09           | 0.02          | 4.75          |
| 40        | 25.16        | 34.49          | 0.23           | 0.15          | 4.94          |
| 60        | 18.96        | 34.59          | 0.33           | 0.44          | 2.57          |
| 80        | 14.59        | 34.71          | 0.13           | 0.50          | 0.61          |
| 100       | 13.32        | 34.77          | 0.03           | 0.26          | 0.48          |
| 125       | 12.67        | 34.78          | 0.04           | 0.10          | 0.54          |
| 150       | 12.09        | 34.77          | 0.01           | 0.06          | 0.62          |
| 200       | 11.28        | 34.73          | --             | --            | 0.76          |
| 350       | 9.63         | 34.66          | --             | --            | 0.22          |
| 500       | 7.93         | 34.58          | --             | --            | 0.15          |
| 1000      | 4.49         | 34.54          | --             | --            | 1.13          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-152      | Date - GMT | 25 NOV 89 |
| Station Name | D894-152   | Time - GMT | 1152      |
| Latitude     | 10. 1.6 N  | Date - LOC | 25 NOV 89 |
| Longitude    | 112.25.0 W | Time - LOC | 0452      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 33.21          | 0.12           | 0.07          | --            |
| 20        | 27.62        | 33.26          | 0.14           | 0.07          | 4.75          |
| 40        | 25.05        | 34.07          | 0.09           | 0.75          | 4.36          |
| 60        | 16.34        | 34.69          | 0.22           | 0.58          | 1.48          |
| 80        | 14.24        | 34.73          | 0.04           | 0.45          | 0.47          |
| 100       | 13.30        | 34.79          | 0.04           | 0.28          | 0.41          |
| 125       | 12.39        | 34.80          | 0.02           | 0.10          | 0.46          |
| 150       | 11.79        | 34.75          | 0.00           | 0.09          | 0.54          |
| 200       | 11.12        | 34.72          | --             | --            | 0.75          |
| 350       | 9.57         | 34.64          | --             | --            | 0.61          |
| 500       | 7.76         | 34.55          | --             | --            | 0.18          |
| 1000      | 4.28         | 34.54          | --             | --            | 0.86          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-153      | Date - GMT | 26 NOV 89 |
| Station Name | D894-153   | Time - GMT | 0219      |
| Latitude     | 11.50.8 N  | Date - LOC | 25 NOV 89 |
| Longitude    | 112.20.2 W | Time - LOC | 1919      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.00           | 33.17             | 0.14              | 0.05             | --               |
| 20           | 27.69           | 33.25             | 0.15              | 0.06             | 4.71             |
| 40           | 24.86           | 34.24             | 0.31              | 0.13             | 4.95             |
| 60           | 18.71           | 34.50             | 0.31              | 0.35             | 2.82             |
| 80           | 15.50           | 34.56             | 0.18              | 0.45             | 1.25             |
| 100          | 14.73           | 34.69             | 0.07              | 0.42             | 0.46             |
| 125          | 13.32           | 34.76             | 0.00              | 0.37             | 0.37             |
| 150          | 12.45           | 34.75             | 0.00              | 0.12             | 0.39             |
| 200          | 11.49           | 34.73             | --                | --               | 0.38             |
| 350          | 9.48            | 34.62             | --                | --               | 0.10             |
| 500          | 7.75            | 34.54             | --                | --               | 0.22             |
| 1000         | 4.30            | 34.54             | --                | --               | 0.92             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-154      | Date - GMT | 26 NOV 89 |
| Station Name | D894-154   | Time - GMT | 1152      |
| Latitude     | 13. 5.4 N  | Date - LOC | 26 NOV 89 |
| Longitude    | 112.34.4 W | Time - LOC | 0452      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.00           | 33.38             | 0.14              | 0.07             | --               |
| 20           | 27.69           | 33.44             | 0.27              | 0.19             | 4.48             |
| 40           | 22.92           | 34.59             | 0.25              | 0.40             | 4.98             |
| 60           | 18.25           | 34.50             | 0.11              | 0.42             | 2.69             |
| 80           | 15.49           | 34.71             | 0.01              | 0.64             | 0.77             |
| 100          | 14.24           | 34.75             | 0.00              | 0.45             | 0.39             |
| 125          | 12.77           | 34.77             | 0.00              | 0.31             | 0.38             |
| 150          | 12.32           | 34.76             | 0.00              | 0.27             | 0.38             |
| 200          | 11.52           | 34.74             | --                | --               | 0.37             |
| 350          | 9.53            | 34.63             | --                | --               | 0.53             |
| 500          | 7.58            | 34.55             | --                | --               | 0.14             |
| 1000         | 4.28            | 34.54             | --                | --               | 0.50             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-155      | Date - GMT | 27 NOV 89 |
| Station Name | D894-155   | Time - GMT | 0221      |
| Latitude     | 15. 0.9 N  | Date - LOC | 26 NOV 89 |
| Longitude    | 112.58.4 W | Time - LOC | 1921      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 33.48          | 0.14           | 0.05          | --            |
| 20        | 27.62        | 33.56          | 0.33           | 0.16          | 4.98          |
| 40        | 26.52        | 34.21          | 0.67           | 0.81          | 4.69          |
| 60        | 20.42        | 34.44          | 0.17           | 0.43          | 3.62          |
| 80        | 17.10        | 34.50          | 0.07           | 0.28          | 1.24          |
| 100       | 14.93        | 34.55          | 0.00           | 0.15          | 0.92          |
| 125       | 13.03        | 34.72          | 0.00           | 0.34          | 0.40          |
| 150       | 12.54        | 34.74          | 0.00           | 0.31          | 0.38          |
| 200       | 11.57        | 34.71          | --             | --            | 0.37          |
| 350       | 9.57         | 34.64          | --             | --            | 0.21          |
| 500       | 7.69         | 34.53          | --             | --            | 0.21          |
| 1000      | 4.34         | 34.53          | --             | --            | 0.67          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-156      | Date - GMT | 27 NOV 89 |
| Station Name | D894-156   | Time - GMT | 1150      |
| Latitude     | 15.56.7 N  | Date - LOC | 27 NOV 89 |
| Longitude    | 112.11.9 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.20        | 34.03          | 0.13           | 0.02          | --            |
| 20        | 27.05        | 34.08          | 0.11           | 0.04          | 4.87          |
| 40        | 27.00        | 34.16          | 0.12           | 0.03          | 4.78          |
| 60        | 19.80        | 34.17          | 0.12           | 0.05          | 5.03          |
| 80        | 16.45        | 34.36          | 0.41           | 0.49          | 3.23          |
| 100       | 15.04        | 34.51          | 0.24           | 0.44          | 1.00          |
| 125       | 13.47        | 34.67          | 0.11           | 0.30          | 0.46          |
| 150       | 12.70        | 34.78          | 0.02           | 0.12          | 0.43          |
| 200       | 11.90        | 34.74          | --             | --            | 0.44          |
| 350       | 9.78         | 34.64          | --             | --            | 0.53          |
| 500       | 7.86         | 34.55          | --             | --            | 0.29          |
| 1000      | 4.46         | 34.54          | --             | --            | 0.65          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-157      | Date - GMT | 28 NOV 89 |
| Station Name | D894-157   | Time - GMT | 0223      |
| Latitude     | 17.11.4 N  | Date - LOC | 27 NOV 89 |
| Longitude    | 110.45.9 W | Time - LOC | 1923      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 28.00           | 33.67             | 0.18              | 0.09             | --               |
| 20           | 27.80           | 33.78             | 0.20              | 0.09             | 4.93             |
| 40           | 24.66           | 34.15             | 0.51              | 0.35             | 4.68             |
| 60           | 16.47           | 34.46             | 0.17              | 0.46             | 1.86             |
| 80           | 15.18           | 34.62             | 0.07              | 0.35             | 0.68             |
| 100          | 14.38           | 34.69             | 0.01              | 0.40             | 0.37             |
| 125          | 13.23           | 34.74             | 0.00              | 0.51             | 0.35             |
| 150          | 12.60           | 34.78             | 0.00              | 0.42             | 0.35             |
| 200          | 11.80           | 34.74             | --                | --               | 0.35             |
| 350          | 9.88            | 34.65             | --                | --               | 0.33             |
| 500          | 7.69            | 34.56             | --                | --               | 0.25             |
| 1000         | 4.53            | 34.52             | --                | --               | 0.58             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-158      | Date - GMT | 28 NOV 89 |
| Station Name | D894-158   | Time - GMT | 1151      |
| Latitude     | 18. 4.5 N  | Date - LOC | 28 NOV 89 |
| Longitude    | 109.45.3 W | Time - LOC | 0451      |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 27.40           | 34.01             | 0.12              | 0.05             | --               |
| 20           | 27.19           | 34.10             | 0.13              | 0.05             | 4.92             |
| 40           | 27.18           | 34.18             | 0.23              | 0.10             | 4.82             |
| 60           | 20.33           | 34.02             | 0.51              | 0.52             | 5.69             |
| 80           | 15.44           | 34.31             | 0.18              | 0.45             | 3.96             |
| 100          | 14.30           | 34.59             | 0.02              | 0.27             | 0.76             |
| 125          | 13.45           | 34.74             | 0.03              | 0.72             | 0.39             |
| 150          | 12.94           | 34.79             | 0.01              | 0.33             | 0.38             |
| 200          | 12.29           | 34.80             | --                | --               | 0.38             |
| 350          | 10.51           | 34.70             | --                | --               | 0.45             |
| 500          | 8.26            | 34.57             | --                | --               | 0.22             |
| 1000         | 4.42            | 34.52             | --                | --               | 0.43             |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-159      | Date - GMT | 29 NOV 89 |
| Station Name | D894-159   | Time - GMT | 0219      |
| Latitude     | 18.26.3 N  | Date - LOC | 28 NOV 89 |
| Longitude    | 107.52.9 W | Time - LOC | 1919      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.60        | 34.05          | 0.11           | 0.05          | --            |
| 20        | 27.24        | 34.17          | 0.12           | 0.05          | 4.96          |
| 40        | 22.20        | 34.14          | 0.27           | 0.20          | 4.81          |
| 60        | 18.15        | 33.98          | 0.44           | 0.41          | 5.55          |
| 80        | 15.50        | 34.10          | 0.23           | 0.34          | 4.38          |
| 100       | 14.58        | 34.28          | 0.09           | 0.23          | 2.43          |
| 125       | 13.29        | 34.51          | 0.01           | 0.07          | 1.03          |
| 150       | 12.70        | 34.67          | 0.00           | 0.07          | 0.51          |
| 200       | 12.03        | 34.75          | --             | --            | 0.35          |
| 350       | 9.78         | 34.63          | --             | --            | 0.22          |
| 500       | 7.74         | 34.54          | --             | --            | 0.28          |
| 1000      | 4.44         | 34.52          | --             | --            | 0.57          |

|              |            |            |           |
|--------------|------------|------------|-----------|
| Station No.  | 4-160      | Date - GMT | 29 NOV 89 |
| Station Name | D894-160   | Time - GMT | 1150      |
| Latitude     | 18.36.9 N  | Date - LOC | 29 NOV 89 |
| Longitude    | 106.32.0 W | Time - LOC | 0450      |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.90        | 33.87          | 0.15           | 0.09          | --            |
| 20        | 27.53        | 34.11          | 0.16           | 0.08          | 4.84          |
| 40        | 24.95        | 34.22          | 0.15           | 0.08          | 5.10          |
| 60        | 20.24        | 34.38          | 0.15           | 0.10          | 3.14          |
| 80        | 16.19        | 34.39          | 0.45           | 0.64          | 1.99          |
| 100       | 15.04        | 34.67          | 0.19           | 0.33          | 0.54          |
| 125       | 13.86        | 34.73          | 0.03           | 0.12          | 0.38          |
| 150       | 12.98        | 34.76          | 0.00           | 0.32          | 0.37          |
| 200       | 12.13        | 34.77          | --             | --            | 0.37          |
| 350       | 10.26        | 34.67          | --             | --            | 0.42          |
| 500       | 7.98         | 34.56          | --             | --            | 0.27          |
| 1000      | 4.29         | 34.54          | --             | --            | 0.23          |



|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-161      | Date - GMT | 2 DEC 89 |
| Station Name | D894-161   | Time - GMT | 0304     |
| Latitude     | 19.26.3 N  | Date - LOC | 1 DEC 89 |
| Longitude    | 105.36.4 W | Time - LOC | 2004     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.30        | 34.08          | 0.22           | 0.20          | --            |
| 20        | 22.87        | 34.31          | 0.77           | 0.90          | 3.13          |
| 40        | 17.38        | 34.40          | 0.20           | 0.47          | 2.55          |
| 60        | 15.72        | 34.63          | 0.59           | 0.46          | 0.91          |
| 80        | 14.27        | 34.70          | 0.52           | 0.49          | 0.39          |
| 100       | 13.47        | 34.77          | 0.35           | 0.52          | 0.37          |
| 125       | 13.00        | 34.77          | 0.08           | 0.21          | 0.36          |
| 150       | 12.55        | 34.78          | 0.01           | 0.60          | 0.35          |
| 200       | 11.84        | 34.75          | --             | --            | 0.37          |
| 350       | 10.01        | 34.65          | --             | --            | 0.18          |
| 500       | 7.93         | 34.56          | --             | --            | 0.19          |
| 1000      | 4.46         | 34.53          | --             | --            | 0.60          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-162      | Date - GMT | 3 DEC 89 |
| Station Name | D894-162   | Time - GMT | 0237     |
| Latitude     | 20.35.2 N  | Date - LOC | 2 DEC 89 |
| Longitude    | 108.47.2 W | Time - LOC | 1937     |

| Depth (m) | Temp (deg C) | Salinity (ppt) | Chloro (mg/m3) | Phaeo (mg/m3) | Oxygen (ml/L) |
|-----------|--------------|----------------|----------------|---------------|---------------|
| 0         | 27.20        | 34.25          | 0.15           | 0.09          | --            |
| 20        | 26.97        | 34.33          | 0.16           | 0.09          | 4.70          |
| 40        | 26.91        | 34.35          | 0.22           | 0.10          | 4.96          |
| 60        | 20.46        | 34.16          | 0.39           | 0.50          | 4.97          |
| 80        | 17.24        | 34.17          | 0.20           | 0.36          | 4.25          |
| 100       | 14.90        | 34.38          | 0.07           | 0.21          | 2.69          |
| 125       | 14.06        | 34.51          | 0.02           | 0.11          | 0.95          |
| 150       | 12.93        | 34.67          | 0.00           | 0.07          | 0.68          |
| 200       | 12.00        | 34.70          | --             | --            | 0.55          |
| 350       | 9.92         | 34.62          | --             | --            | 0.19          |
| 500       | 7.74         | 34.52          | --             | --            | 0.13          |
| 1000      | 4.42         | 34.52          | --             | --            | 0.62          |

|              |            |            |          |
|--------------|------------|------------|----------|
| Station No.  | 4-163      | Date - GMT | 4 DEC 89 |
| Station Name | D894-163   | Time - GMT | 0321     |
| Latitude     | 23. 5.6 N  | Date - LOC | 3 DEC 89 |
| Longitude    | 111.43.3 W | Time - LOC | 2021     |

| Depth<br>(m) | Temp<br>(deg C) | Salinity<br>(ppt) | Chloro<br>(mg/m3) | Phaeo<br>(mg/m3) | Oxygen<br>(ml/L) |
|--------------|-----------------|-------------------|-------------------|------------------|------------------|
| 0            | 24.20           | 34.34             | 0.14              | 0.05             | --               |
| 20           | 23.90           | 34.34             | 0.17              | 0.07             | 4.84             |
| 40           | 23.89           | 34.34             | 0.24              | 0.08             | 4.94             |
| 60           | 19.96           | 34.13             | 0.68              | 0.32             | 5.52             |
| 80           | 17.25           | 33.83             | 0.21              | 0.30             | 5.06             |
| 100          | 14.79           | 33.99             | 0.08              | 0.21             | 4.17             |
| 125          | 13.45           | 34.17             | 0.02              | 0.12             | 2.72             |
| 150          | 12.63           | 34.34             | 0.01              | 0.12             | 1.37             |
| 200          | 10.96           | 34.40             | --                | --               | 1.41             |
| 350          | 9.55            | 34.55             | --                | --               | 0.14             |
| 500          | 7.69            | 34.46             | --                | --               | 0.18             |
| 1000         | 4.37            | 34.48             | --                | --               | 0.69             |

## APPENDIX B

### SCIENTIFIC PERSONNEL

| <u>Cruise Leaders</u>                       | <u>Leg</u>        |
|---|-------------------|
| Aleta Hohn, SWFC                            | 1                 |
| Lisa Ballance, SWFC                         | 2                 |
| Elizabeth Edwards, SWFC                     | 3                 |
| Andrew Dizon, SWFC                          | 4                 |
| <br>  |                   |
| <u>Bird Observers</u>                       |                   |
| Lisa Ballance, SWFC                         | 1-4               |
| Robert Pitman, SWFC                         | 1-4               |
| <br>  |                   |
| <u>Marine Mammal Identification Experts</u> |                   |
| Gary Friedrichsen, SWFC                     | 1-2               |
| Scott Sinclair SWFC                         | 1-2               |
| Richard LeDuc, SWFC                         | 3-4               |
| Scott Benson, SWFC                          | 3-4               |
| <br>  |                   |
| <u>Marine Mammal Observers</u>              |                   |
| Sallie Beavers, SWFC                        | 1-2               |
| Bill Irwin, SWFC                            | 1-2               |
| Susan Kruse, SWFC                           | 1-2               |
| Brian Smith, SWFC                           | 1-2               |
| Jim Carretta, SWFC                          | 3-4               |
| Jim Cotton, SWFC                            | 3-4               |
| Carrie Fried, SWFC                          | 3-4               |
| Richard Rowlett, SWFC                       | 3-4               |
| <br>  |                   |
| <u>Oceanographers</u>                       |                   |
| Lisa Lierheimer, SWFC                       | 1-4               |
| Gregg Thomas, AOML                          | 1-4               |
| <br>  |                   |
| <u>Other Scientific Crew Members</u>        |                   |
| Horacio De Anda, Mexico                     | (until Aug. 11) 1 |
| Paul Wade, SWFC                             | 2                 |
| Debbie Palka, SWFC                          | 4                 |
| <br>  |                   |
| <u>Photogrammetrists</u>                    |                   |
| Mark Lowry, SWFC                            | 1                 |
| James Gilpatrick, SWFC                      | 1-2               |
| Robin Westlake, SWFC                        | 2-3               |
| Morgan Lynn, SWFC                           | 3-4               |
| <br>  |                   |
| <u>Helicopter Support</u>                   |                   |
| Bud Christman, NOAA Corps, OAO              | (until Aug. 11) 1 |
| Don Winters, NOAA Corps, OAO                | (Aug. 11 - 27) 1  |
| Eric Post, OAO                              | 1-3               |
| Dave Gardiner, NOAA Corps, OAO              | 2                 |
| Bill Hines, NOAA Corps, OAO                 | 3                 |
| Miles Croom, NOAA Corps, OAO                | 4                 |
| Ron Helgeson, OAO                           | 4                 |

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