

UNIVERSITY OF CALIFORNIA, SAN DIEGO SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

CalCOFI Cruise 0901
7 – 24 January 2009

CC Reference 10-01
8 September 2010

UNIVERSITY OF CALIFORNIA, SAN DIEGO
SCRIPPS INSTITUTION OF OCEANOGRAPHY
LA JOLLA, CALIFORNIA 92093-0227

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

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CONTENTS

| | |
|---|----|
| Introduction | 3 |
| Literature Cited | 7 |
| CalCOFI Cruise 0901 | |
| List of Figures | 9 |
| Personnel | 20 |
| Tabulated Rosette Cast Data | 21 |
| Tabulated Primary Productivity Data | 54 |
| Tabulated Macrozooplankton Data | 58 |

INTRODUCTION

The data presented in this report were collected during cruise 0901* of the California Cooperative Oceanic Fisheries Investigations (CalCOFI) program aboard the RV *New Horizon* of Scripps Institution of Oceanography, University of California, San Diego. The CalCOFI program was organized in the late 1940's to study the causes of variations in population size of fishes of importance to the State of California. It is carried out by NOAA's National Marine Fisheries Service Southwest Fisheries Science Center, the California Department of Fish and Game, and the Integrative Oceanography Division (IOD) at Scripps Institution of Oceanography (SIO). IOD contributes to this program by investigations of the physical, chemical and biological structure of the California Current. Data from the cruises were collected and processed by personnel of the Integrative Oceanography Division and the Southwest Fisheries Science Center. SIO staff members from the Ocean Data Facility participate in the chemical analysis of nutrient samples at sea. CalCOFI data presented in this report and collected on previous cruises can be accessed at <http://www.calcofi.org>.

STANDARD PROCEDURES

CTD/Rosette Cast Data

A Sea-Bird Electronics, Inc., Conductivity-Temperature-Depth (CTD) instrument (Seabird 911, Serial number 1049) with a rosette was deployed at each station on these cruises. The rosette was equipped with 24 ten-liter plastic (PVC) bottles equipped with epoxy-coated springs and Viton O-rings. Each CTD/rosette cast usually sampled 20 depths to a maximum sampling depth of 525 meters, bottom depth permitting. Occasional stations have multiple bottles tripped at the same depth to provide more water for ancillary programs. The sample spacing was designed to sample depth intervals as close as 10 meters around the sharp upper thermocline features such as the chlorophyll, oxygen, nitrite maxima and the shallow salinity minimum. Salinity, oxygen and nutrients were determined at sea for all depths sampled. Chlorophyll-*a* and phaeopigments were determined at sea on samples from the top 200 meters, bottom depth permitting.

Pressures and temperatures assigned to the water sample data were derived from the CTD signals recorded just prior to the bottle trip. Pressures have been converted to depths by the Saunders (1981) pressure-to-depth conversion technique. CTD temperatures reported with the bottle data have been rounded to the nearest hundredth of a degree Celsius.

Salinity samples were collected from all rosette bottles and analyzed at sea using a Guildline model 8410 Portasal salinometer. Salinity samples were drawn into 200 ml Kimax high-alumina borosilicate bottles that were rinsed three times with sample prior to filling. The results were compared with the CTD salinity to verify that the rosette bottle did not mis-trip or leak. The salinometer was standardized before and after each group of samples with standardized seawater. Periodic checks on the conductivity of the standardized seawater were made by comparison with IAPSO Standard Seawater batch P149. Salinity values were calculated using the algorithms for the Practical Salinity Scale, 1978 (UNESCO, 1981a) and are reported to three decimal places, provided that accepted standards were met.

Dissolved oxygen analyses were performed with an Ocean Data Facility of Scripps Institution of Oceanography designed automated oxygen titrator using photometric end-point detection based on the absorption of 365nm wavelength ultra-violet light. A computer using PC software controlled the titration of the samples and the data logging. The method used a modified-Winkler titration following the technique of Carpenter (1965) with modifications by Culberson (1991), but with higher concentrations of thiosulfate solution (50 g/l). Standard KIO3

* The first two digits represent the year and the last digits the month of the cruise.

solutions prepared ashore were run at the beginning of each run. Reagent and sea water blanks were determined to account for presence of oxidizing or reducing materials.

Nutrient samples were analyzed at sea by the Scripps Ocean Data Facility for dissolved silicate, phosphate, nitrate, nitrite, and ammonium using procedures similar to those described in Gordon et al. (1993) and Koroleff (1969, 1970). Samples were collected in 45 ml high-density polypropylene screw-capped tubes which were acid washed and rinsed with sample three times prior to filling. Daily standardizations and drift corrections were accomplished by running freshly prepared mid-range standards at the beginning and end of each group of samples. Samples not analyzed immediately after collection were refrigerated and run the following day. In addition to daily standardizations, periodic full calibrations were performed with sets of six different concentration standards.

Samples for chlorophyll-*a* and phaeopigments were collected in calibrated 138 ml polyethylene bottles and filtered onto Whatman GF/F filters. The pigments were extracted in cold 90% acetone (Venrick and Hayward, 1984) for a minimum of 24 hours. Chlorophyll *a* and phaeopigment concentrations were determined from fluorescence readings before and after acidification with a Turner Designs Fluorometer Model 10-AU-005-CE (Yentsch and Menzel, 1963; Holm-Hansen *et al.*, 1965).

Evaluation of the water sample data involved comparisons with the CTD data, adjacent stations and consideration of the variation of a property as a function of density or depth and the relationships with other properties (Klein, 1973). Precision estimates for routine analyses were made on CalCOFI cruise 9003 and are reported in SIO Ref. 91-4.

Primary Productivity Sampling

Primary productivity samples were taken each day shortly before local apparent noon (LAN). Primary production was estimated from ^{14}C uptake using a simulated *in situ* technique. Light penetration was estimated from the Secchi depth (assuming that the 1% light level is three times the Secchi depth). The depths with ambient light intensities corresponding to light levels simulated by the on-deck incubators were identified and sampled on the rosette upcast. Occasionally an extra bottle or two were tripped in addition to the usual 20 levels sampled in the combined rosette-productivity cast in order to maintain the normal sampling depth resolution. Triplicate samples (two light and one dark control) were drawn from each productivity sample depth into 250 ml polycarbonate incubation bottles. Samples were inoculated with 41.12 μCi of ^{14}C as NaHCO_3 (200 μl of 205 $\mu\text{Ci}/\text{ml}$ stock) prepared in a 0.3 g/liter solution of sodium carbonate (Fitzwater *et al.*, 1982). Samples were incubated from LAN to civil twilight in seawater-cooled incubators with neutral-density screens which simulate *in situ* light levels. At the end of the incubation, the samples were filtered onto Millipore HA filters and placed in scintillation vials. One half ml of 10% HCl was added to each sample. The sample was then allowed to sit, without a cap, at room temperature for 12 hours (after Lean and Burnison, 1979). Following this, 10 ml of scintillation cocktail were added to each sample and the samples were returned to SIO where the radioactivity was determined with a scintillation counter. Salinity, oxygen, nutrients, chlorophyll-*a* and phaeopigments were determined from all rosette productivity bottles.

Macrozooplankton Net Tows

Macrozooplankton was sampled with a 71 cm mouth diameter paired net (bongo net) equipped with 0.505mm plankton mesh. Bottom depth permitting, the nets were towed obliquely from 210 meters to the surface. The tow time for a standard tow was 21.5 minutes. Volumes filtered were determined from flowmeter readings and the mouth area of the net. Only one sample of each pair was retained and preserved. The biomass, as wet displacement volume, after removal of large (>5 ml) organisms, was determined in the laboratory ashore. These procedures are summarized in greater detail in Kramer *et al.* (1972). A Laser Optical Plankton Counter (LOPC, Dave Checkley, SIO) was routinely used in one side of the paired bongo net frame. The purpose of the LOPC is to obtain information on the vertical distributions of size categories of zooplankton, using data from the counter, without affecting the ongoing time series of data obtained from the catches of the integrative bongo net. An unfortunate failure of the hyrdo wire resulted in the loss of the bongo/LOPC on line 80, station 60. A replacement bongo without an LOPC was used for the remainder of the cruise.

Ancillary Programs

Several ancillary programs produced data on these cruises that are not presented in this report. These programs include:

- 1) *Underway Data.* Continuous near surface measurements of temperature, salinity and *in vivo* chlorophyll fluorescence were recorded from seawater pumped through the ship's uncontaminated seawater system. Water was drawn from a depth of approximately 3 meters. The data were logged in one-minute averages using a Sea-Bird Electronics, Inc., SBE 45 MicroTSG Thermosalinograph and a Wetlabs Wetstar fluorometer.
- 2) *ADCP.* Continuous profiles of ocean currents and acoustic backscatter between 20 and 500 meters deep were measured along the shiptrack from a hull-mounted 150 kHz Acoustic Doppler Current Profiler (ADCP). The ADCP data were averaged over 3-minute intervals. Sixty 8-meter depth bins were recorded. (T. Chereskin, SIO)
- 3) *Underway Sea Surface xCO₂.* Continuous measurements of the partial pressure of CO₂ were made from the ship's uncontaminated seawater system. The seawater was equilibrated in a membrane contactor with a gas loop that was analyzed with a Licor 6262 infrared CO₂/H₂O analyzer. One-minute averages were recorded and the mole fraction of CO₂ (xCO₂) at sea surface temperature was calculated. The system was calibrated with standard gases traceable to CMDL every two hours; at that time absolute zero and atmospheric samples were also collected. (G. Friederich, MBARI)
- 4) *California Current Ecosystem Long Term Ecological Research Program:* The CCE-LTER program augments standard CalCOFI measurements to further characterize the lower trophic levels as well as the carbon system. These additional samples, taken at all CalCOFI stations, are for measurements of particulate organic carbon and nitrogen, dissolved organic carbon and nitrogen, taxon-specific phytoplankton pigments, flow-cytometric counts of bacteria and picoautotrophs, microscopic counts of nano- microplankton, determination of mesozooplankton size structure using a Laser Optical Plankton Counter, and mesozooplankton community structure. (M. Ohman, SIO)
- 5) *SCCOOS Nearshore Observations:* The objective of these observations is to extend CalCOFI time series to the nearshore. Nearshore observations consist of 9 stations at the ends and interspersed with current CalCOFI lines on the 20 m isobath with a standard set of CalCOFI observations. (R. Goericke, SIO)
- 6) *Inorganic Carbon System:* The CalCOFI group collected samples for the characterization of the inorganic carbon system at selected locations along the cruise track. Total inorganic carbon and alkalinity will be measured which will allow the calculation of pH and pCO₂. The objectives of these measurements are first the long-term characterization of the inorganic carbon system and its response to changing ocean climate and second measurements of pH in the coastal zone in order to monitor the impact of 'corrosive' waters on benthic ecosystems in the Southern California Bight. (R. Goericke, SIO)
- 7) *Marine mammal observations.* During daylight transits, visual line-transect surveys were conducted by marine mammal observers focusing on cetaceans. Acoustic line-transect surveys were performed using a towed hydrophone array which consists of multiple hydrophone elements that sample sounds up to 100 kHz allowing for localization of calling animals. Acoustic monitoring also takes place on individual stations using sonobuoys. (J. Hildebrand, SIO)
- 8) *ALF (Advanced Laser Flurometer).* Continuous underway analysis of phytoplankton pigment groups and variable fluorescence (F_v/F_m). ALF, developed by A. Chekalyuk at Lamont-Doherty Earth Observatory, uses laser stimulated emission at 405 and 532 nm together with spectral deconvolution analysis to distinguish fluorescence from three types of phycoerythrin, chlorophyll-*a*, and chromophoric dissolved organic matter (CDOM). The ALF is useful for differentiating the contribution of cyanobacteria and cryptophytes from other phytoplankton taxa present in natural phytoplankton assemblages, as well as for assessing phytoplankton photophysiological status.

TABULATED DATA

CTD/Rosette Cast Data

The time reported is the Coordinated Universal Time (UTC) of the first rosette bottle trip on the up cast. The rosette bottles tripped on the up cast are reported as cast 2, where cast 1 is considered to be the down CTD profile. The sample number reported is the cast number followed by a two-digit rosette bottle number. Bottom depths, determined acoustically, have been corrected using British Admiralty Tables (Carter, 1980) and are reported in meters. Weather conditions have been coded using WMO code 4501. Secchi depths are reported for most daylight stations.

Data values from discreet sampled CTD rosette were interpolated and are reported for standard depths. Interpolated or extrapolated standard level data are noted by the footnote "ISL" printed after the depth. Multiple bottles tripped at the same depth to provide water for ancillary programs are not used in the calculation of standard depth data. Density-related parameters have been calculated from the International Equation of State of Seawater 1980 (UNESCO, 1981b). Computed values of potential temperature, sigma-theta, specific volume anomaly (SVA), and dynamic height or geopotential anomaly are included with both observed and interpolated standard depth levels.

On stations where primary productivity samples were drawn a footnote appears after each productivity depth sampled. The corresponding primary productivity data are reported in a separate section following the tabulated rosette cast data.

Primary Productivity Data

In addition to the normal hydrographic data that are reported in the rosette cast data section, the tabulated data include: the *in situ* light levels at which the samples were collected, the uptake from each of the replicate light bottles, uptake 1 and uptake 2 (which have been corrected for dark uptake by subtracting the dark value), the mean of the two uptake values and the dark uptake. The uptake values are totals for the incubation period. Also shown are the times of LAN, civil twilight, and the value of the mean uptake integrated from the surface to the deepest sample, assuming the shallowest value continues to the surface and that negative values (when dark uptake exceeds light uptake) are zero. The uptake data are reported to two significant digits (values <1.00) or one decimal (values >1.00). Incubation time, LAN, and civil twilight are given in local Pacific Standard Time (PST); to convert to UTC, add eight hours to the PST time. Incubation light intensities are listed in a footnote at the bottom of each page.

Macrozooplankton Data

Macrozooplankton biomass volumes are tabulated as total biomass volume ($\text{cm}^3/1000\text{m}^3$ strained) and as the total volume minus the volume of larger organisms under the heading "Small." Tow times are given in local PST (+8) time.

FOOTNOTES

In addition to footnotes, special notations are used without footnotes because the meaning is always the same:

D: CTD salinity value listed in place of normal shipboard salinity analysis.

ISL: After a depth value indicates that this is an interpolated or extrapolated standard level.

U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason.

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FIGURES

Cruise 0901

1. CalCOFI Cruise 0901 track and station positions.
2. Horizontal distribution of dynamic height anomaly (0 over 500m). In areas shallower than 500 m, the dynamic heights were extrapolated on the basis of the offshore deeper steric height as described in Reid and Mantyla (1976).
3. Horizontal distributions at 10 meters: A) chlorophyll-*a*; B) potential density; C) temperature; and D) salinity.
4. Horizontal distributions at 200 meters: A) dynamic height anomaly (200 over 500 m); B) potential density; C) temperature; and D) salinity.
5. Sections along CalCOFI line 90 (vertical exaggeration, 1000): A) potential density; B) temperature; C) salinity; D) silicate; E) nitrate; F) phosphate; G) chlorophyll-*a*; H) oxygen saturation; I) oxygen; J) nitrite; and K) phaeopigments.

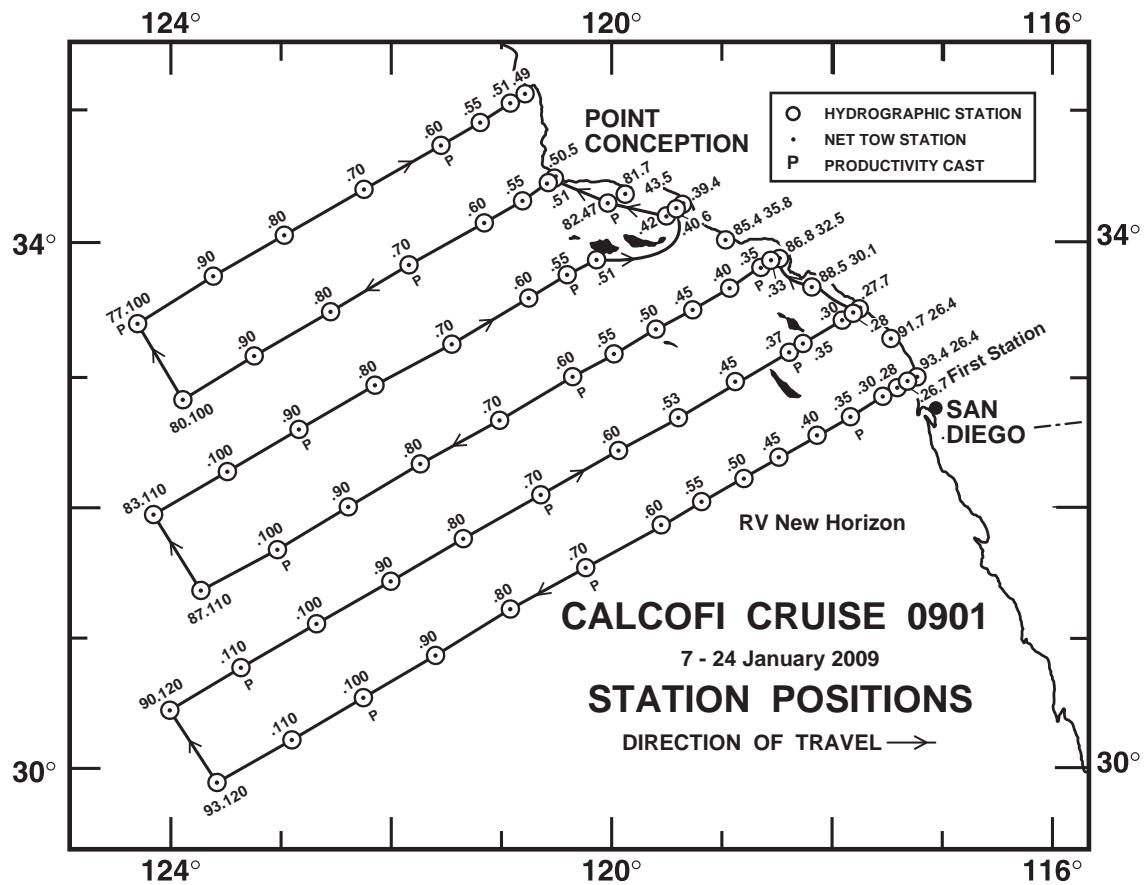
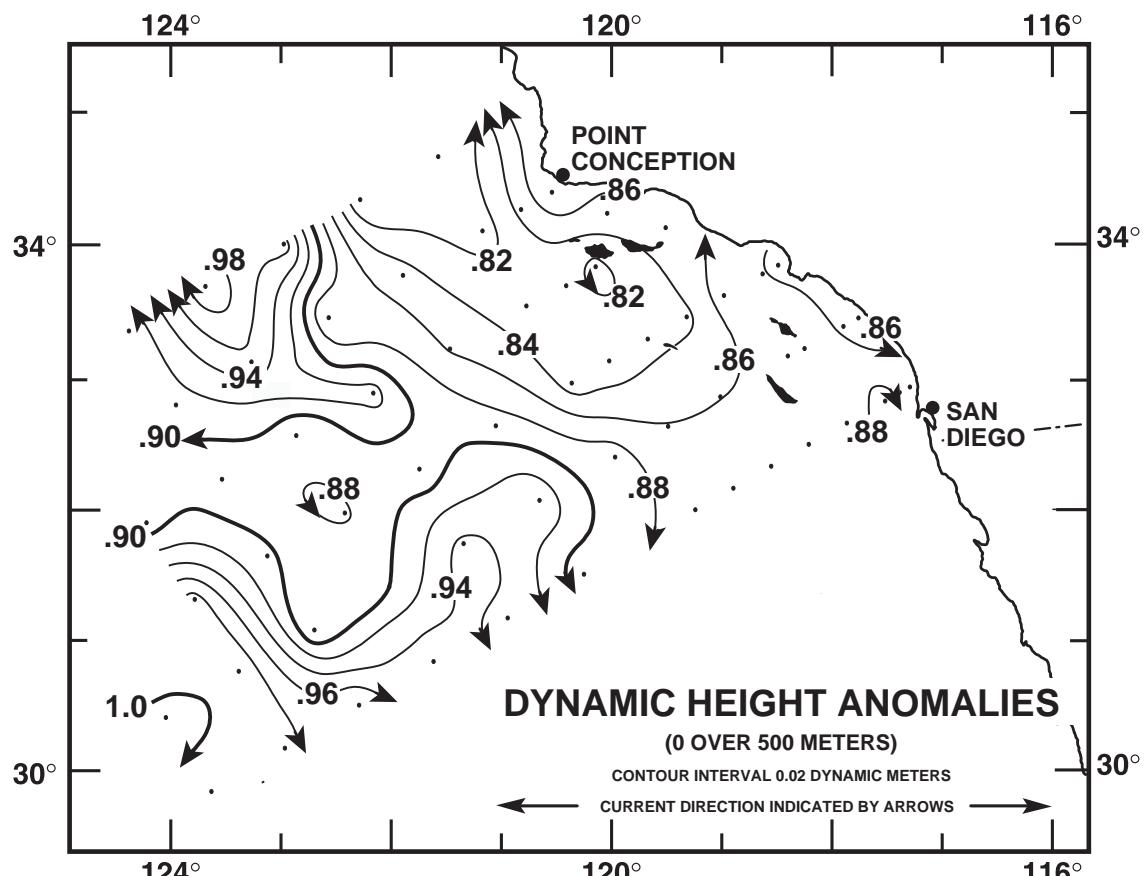


FIGURE 1



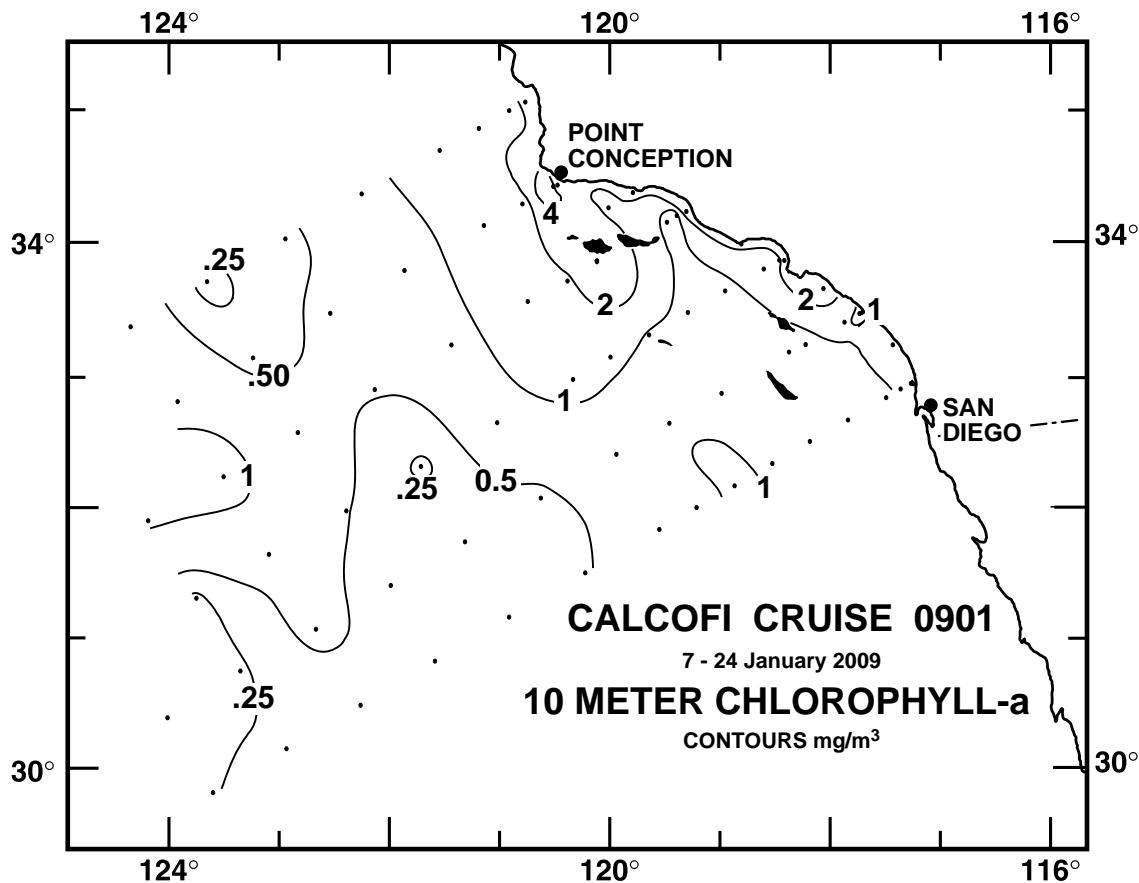


FIGURE 3A

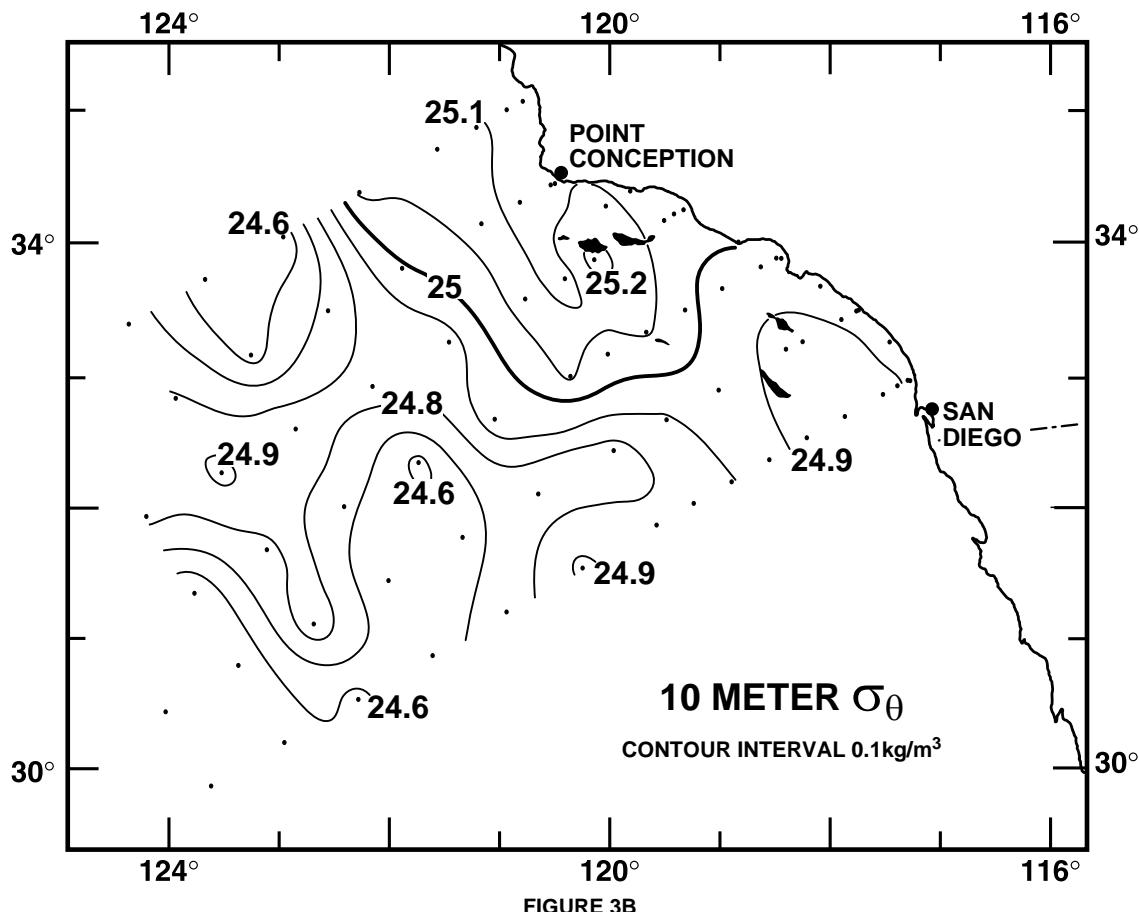


FIGURE 3B

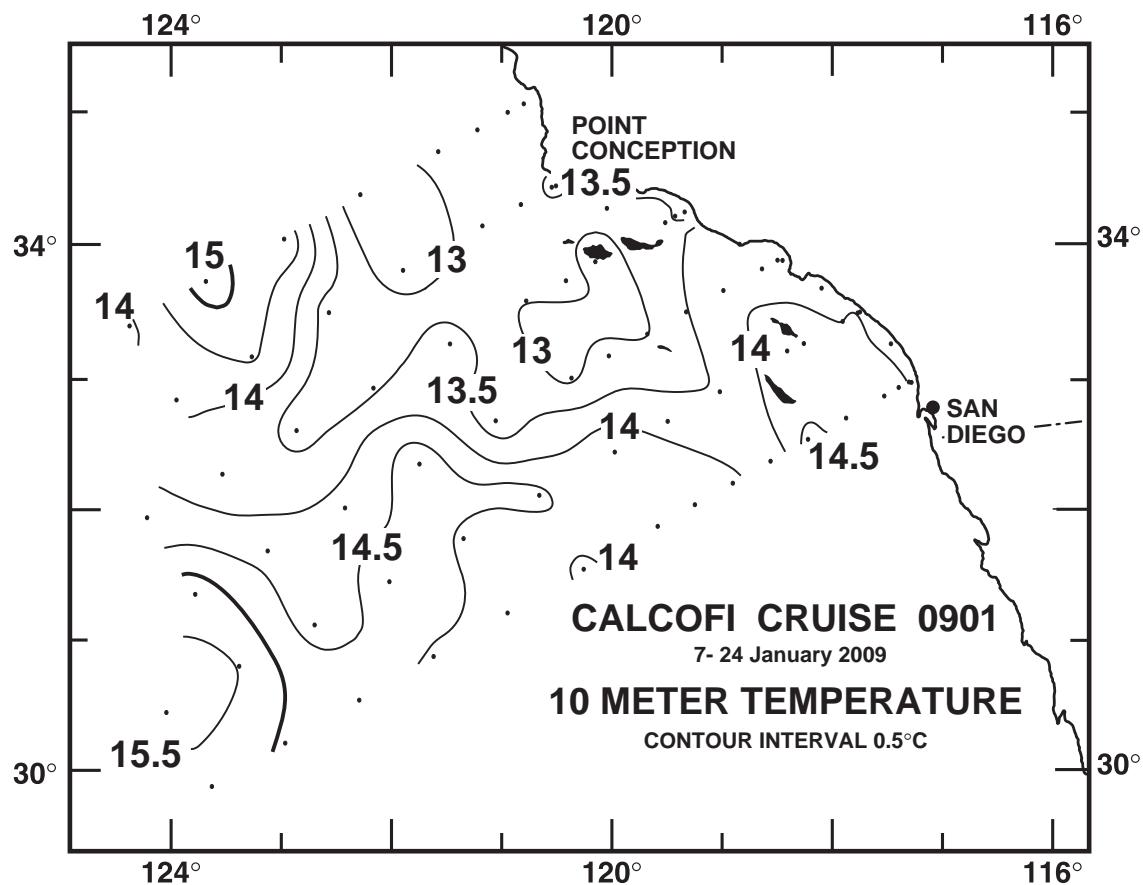


FIGURE 3C

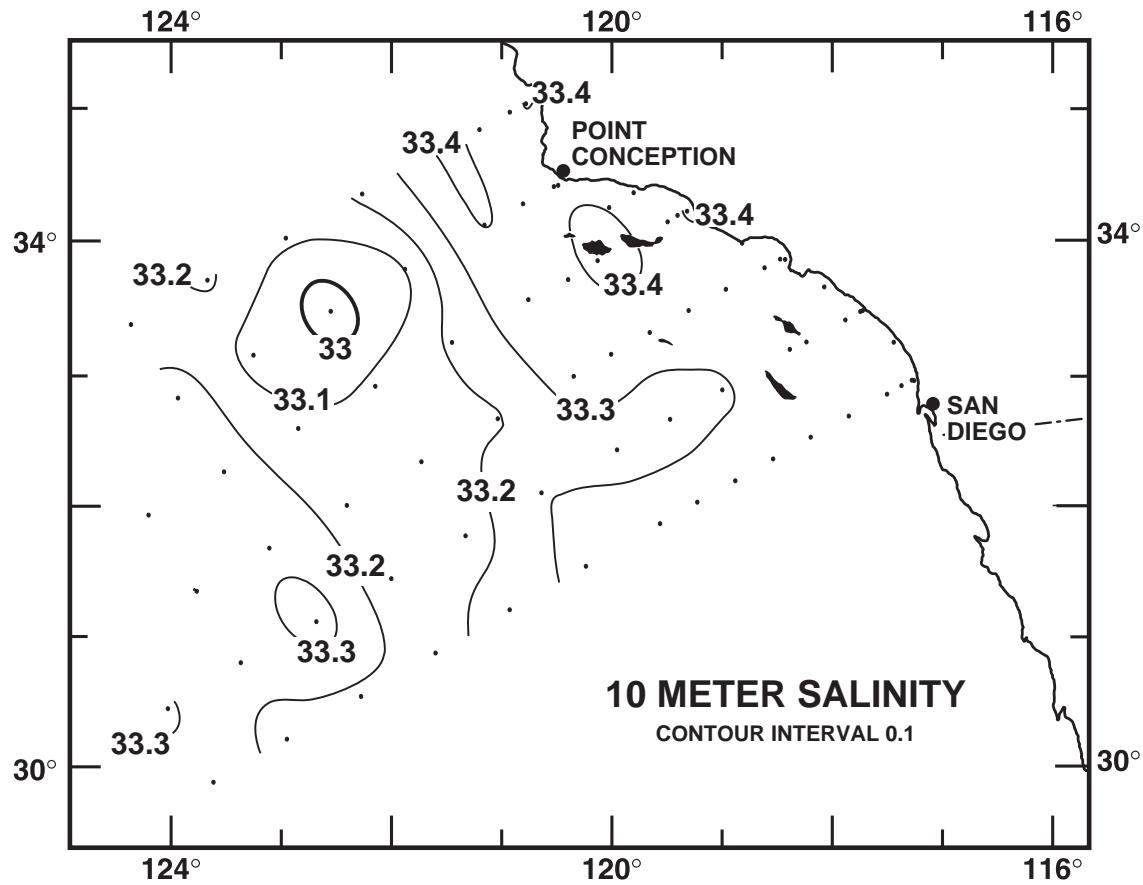


FIGURE 3D

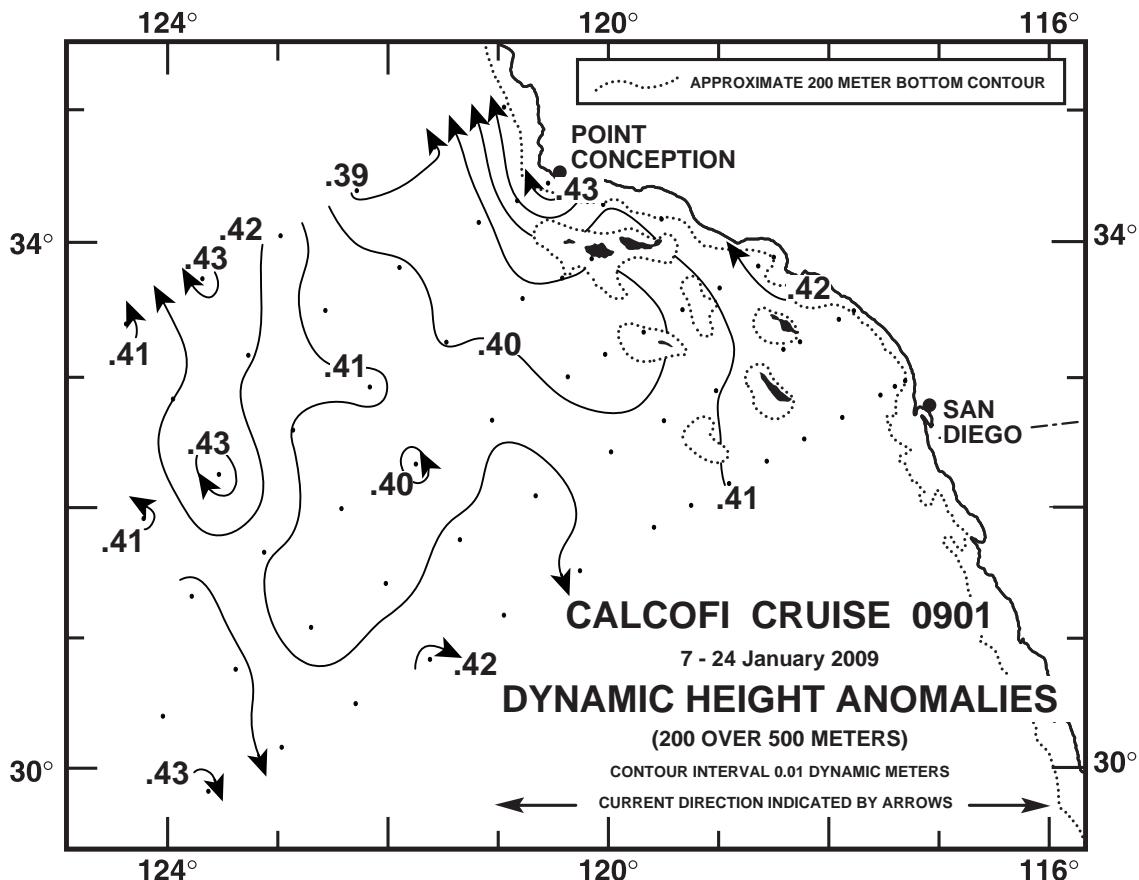


FIGURE 4A

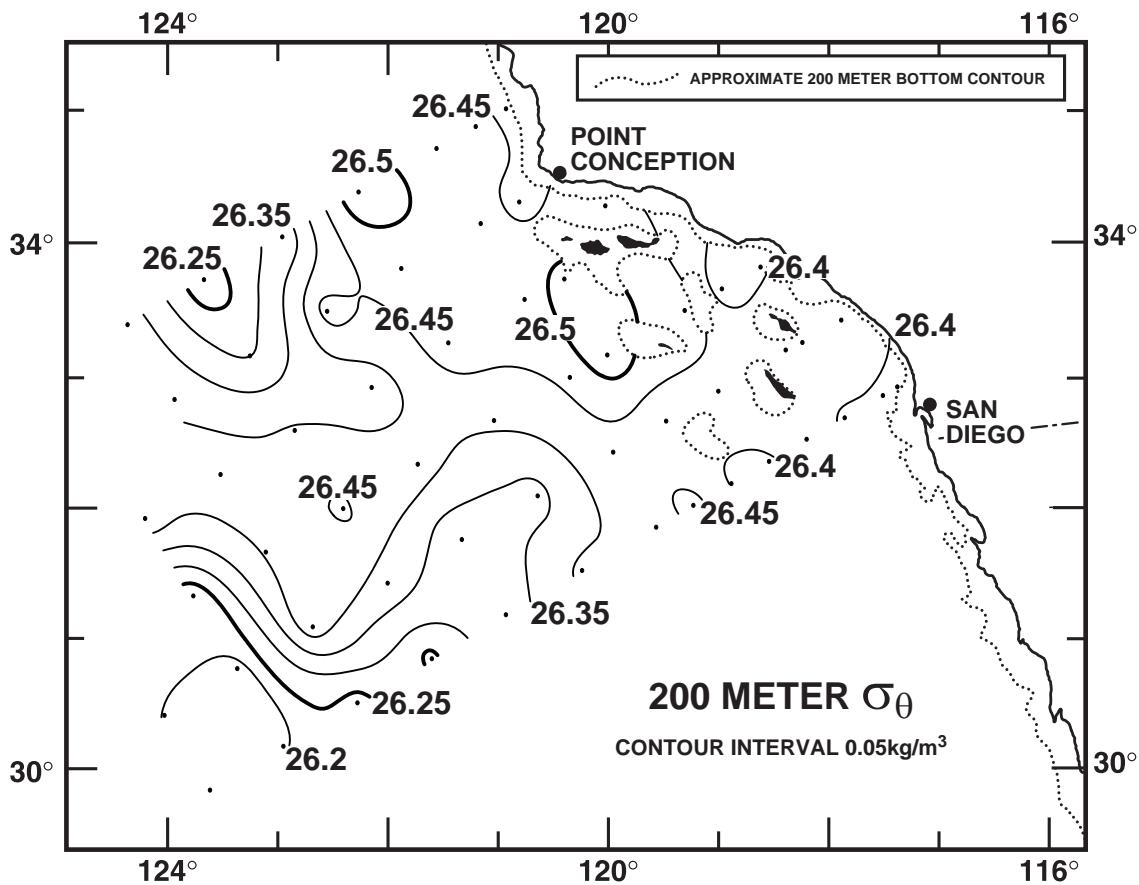


FIGURE 4B

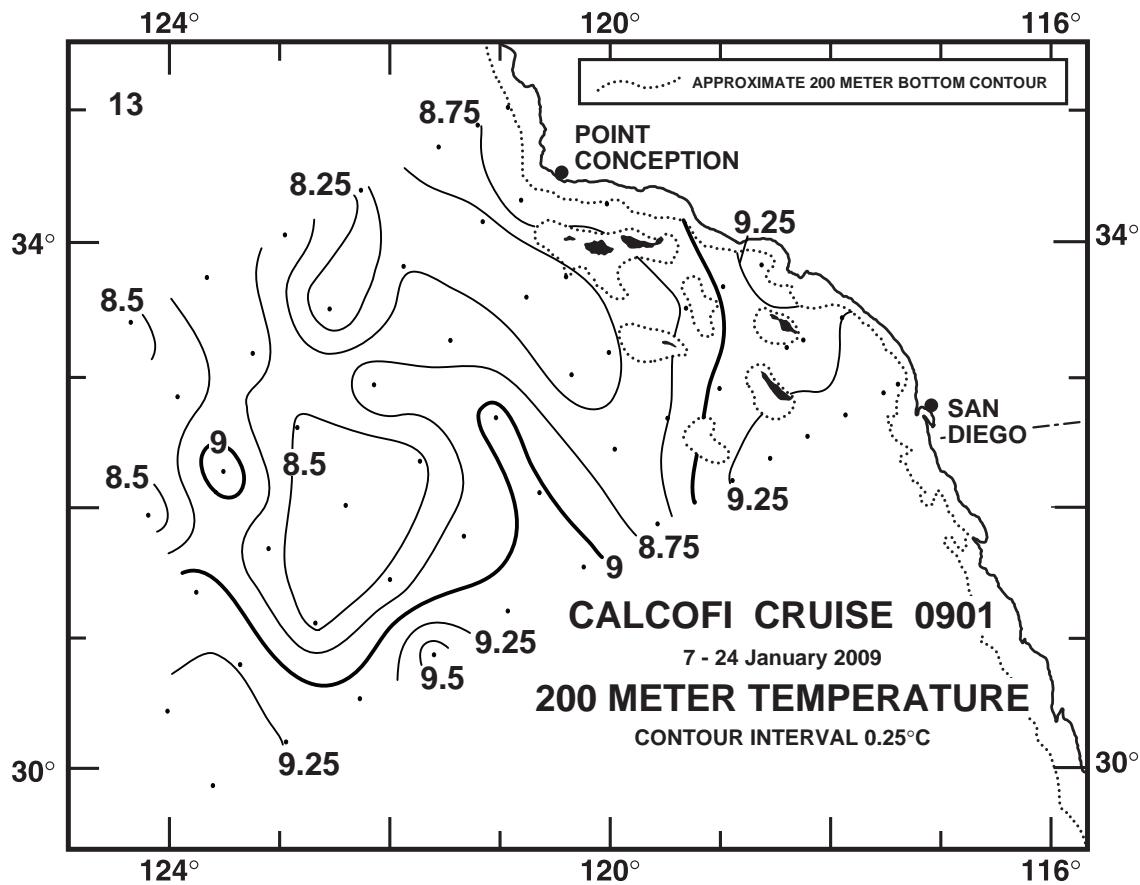


FIGURE 4C

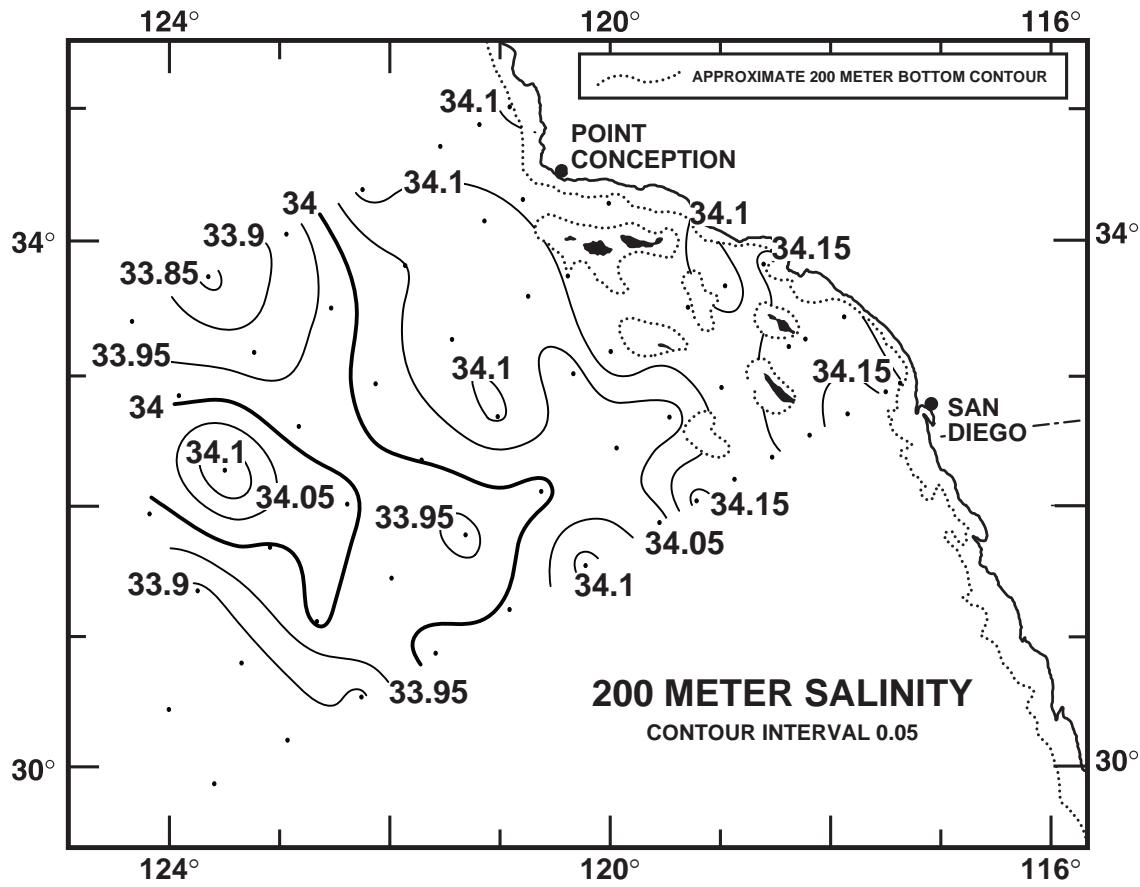


FIGURE 4D

CALCOFI CRUISE 0901

11 - 14 January 2009

POTENTIAL DENSITY (σ_0) ALONG CALCOFI LINE 90

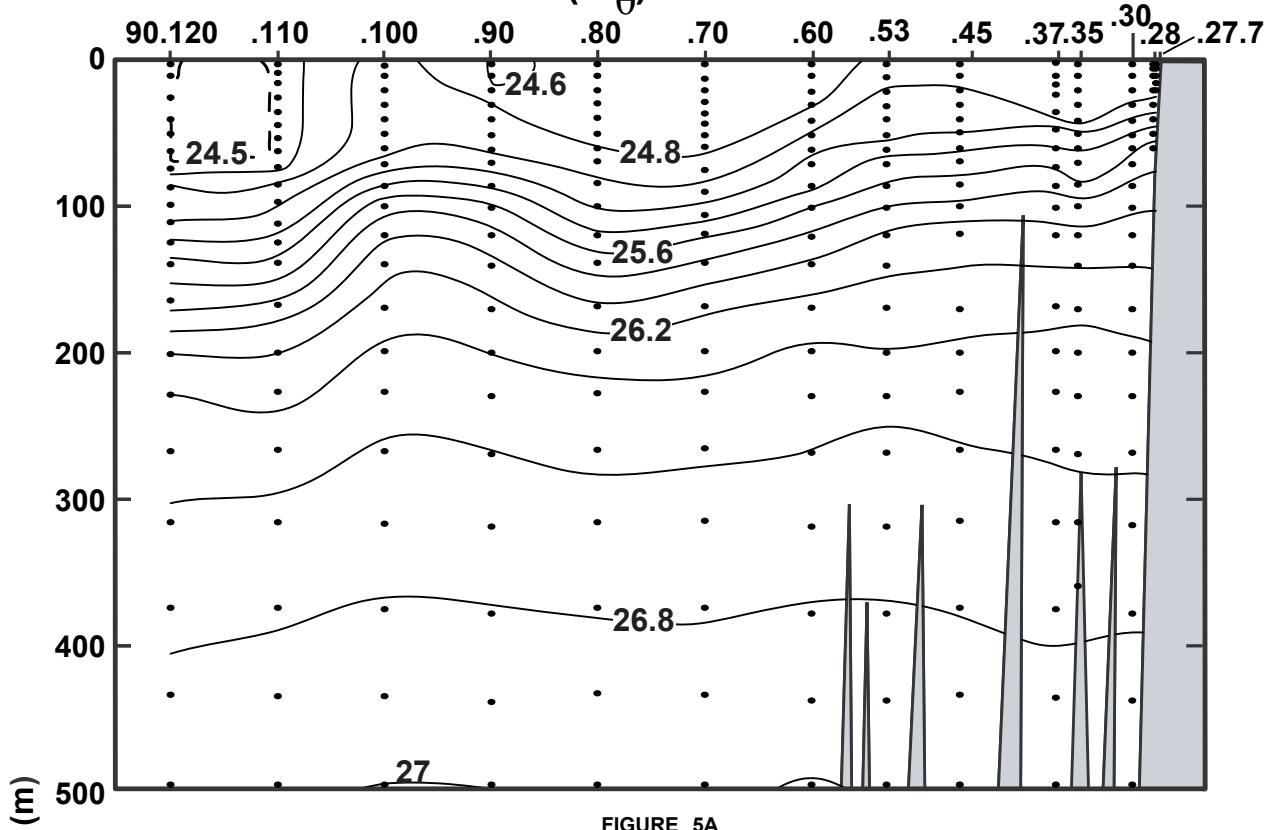


FIGURE 5A

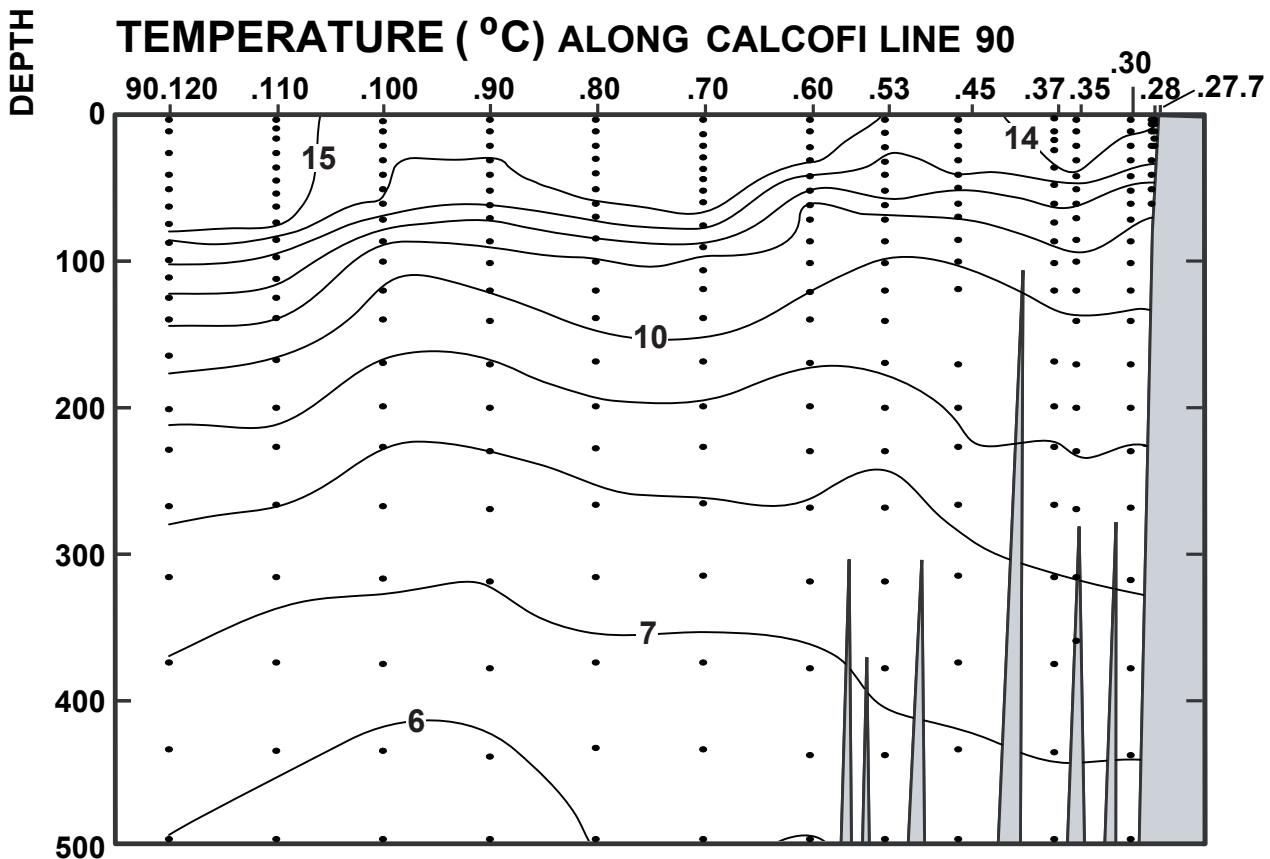


FIGURE 5B

CALCOFI CRUISE 0901

11 - 14 January 2009

SALINITY ALONG CALCOFI LINE 90

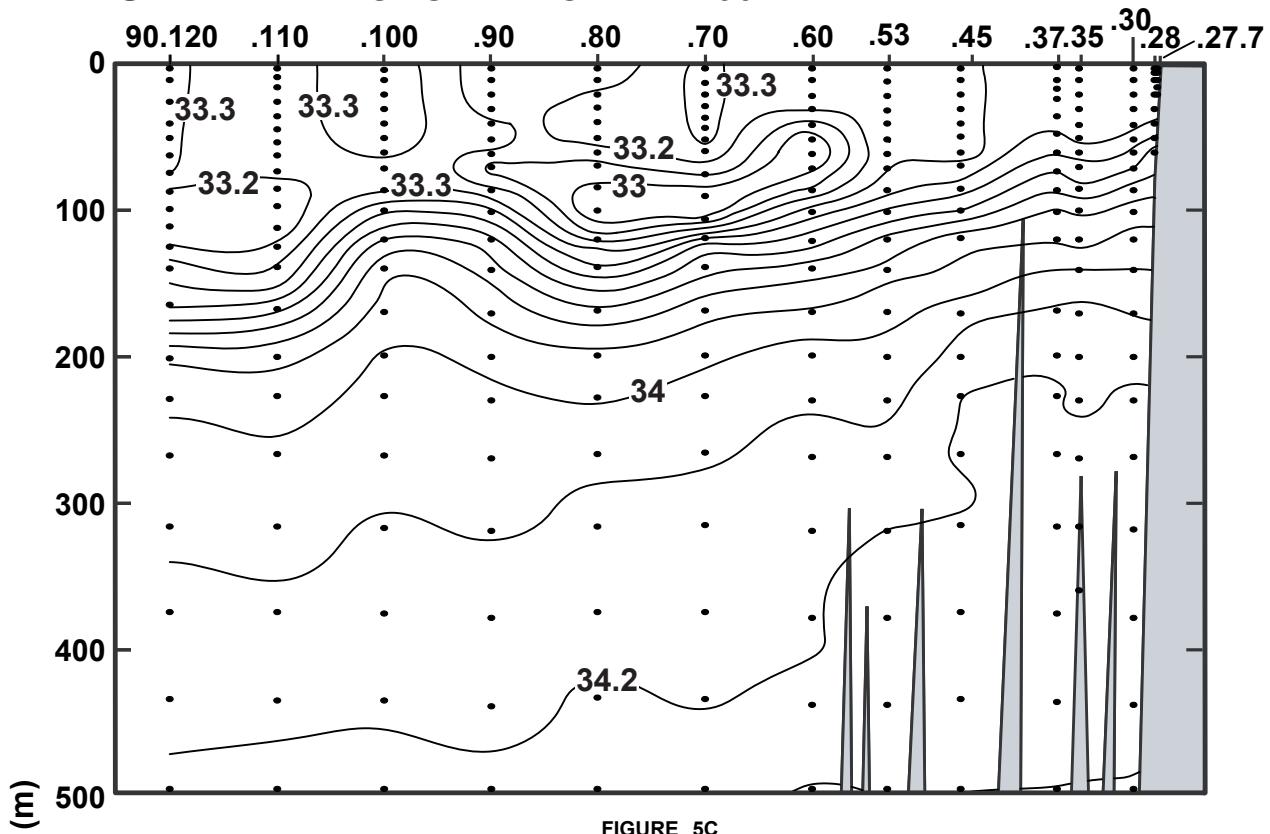


FIGURE 5C

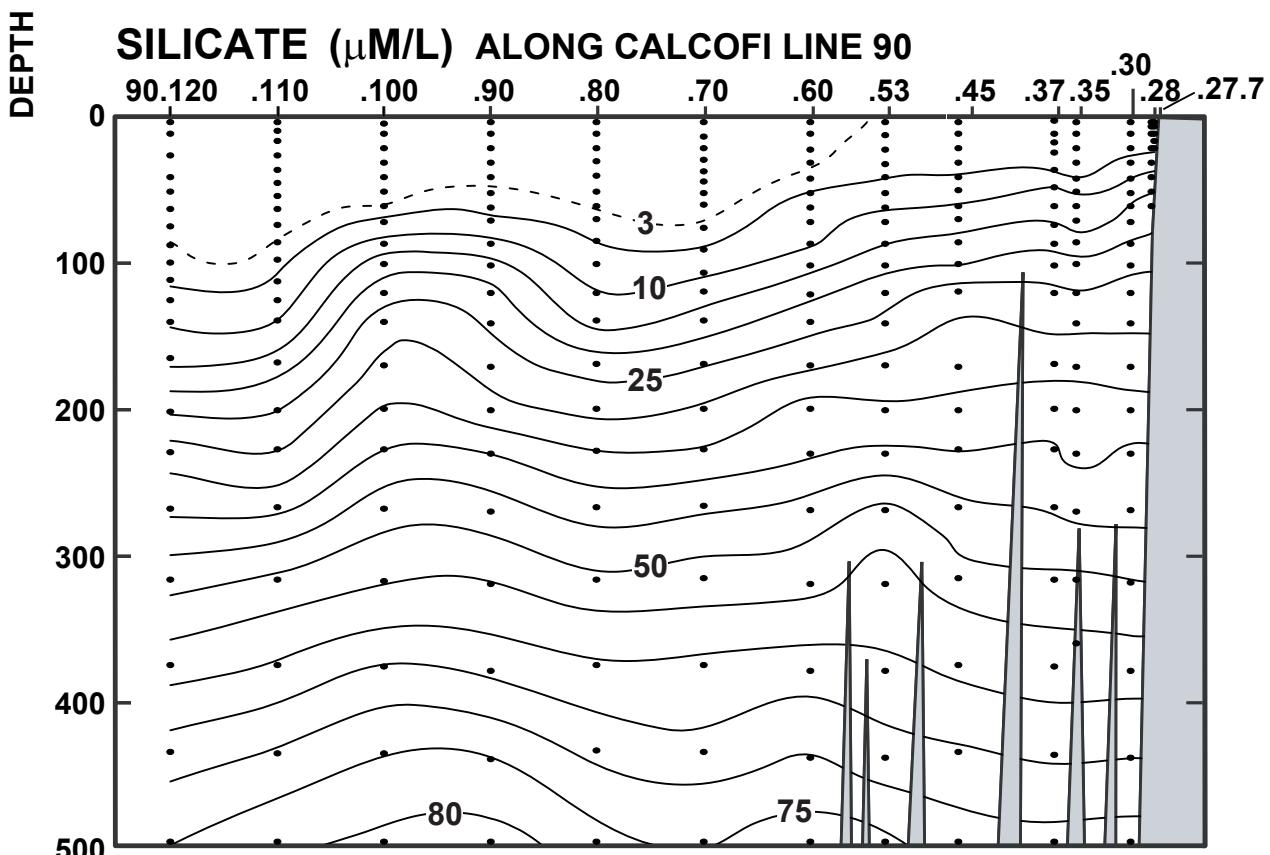
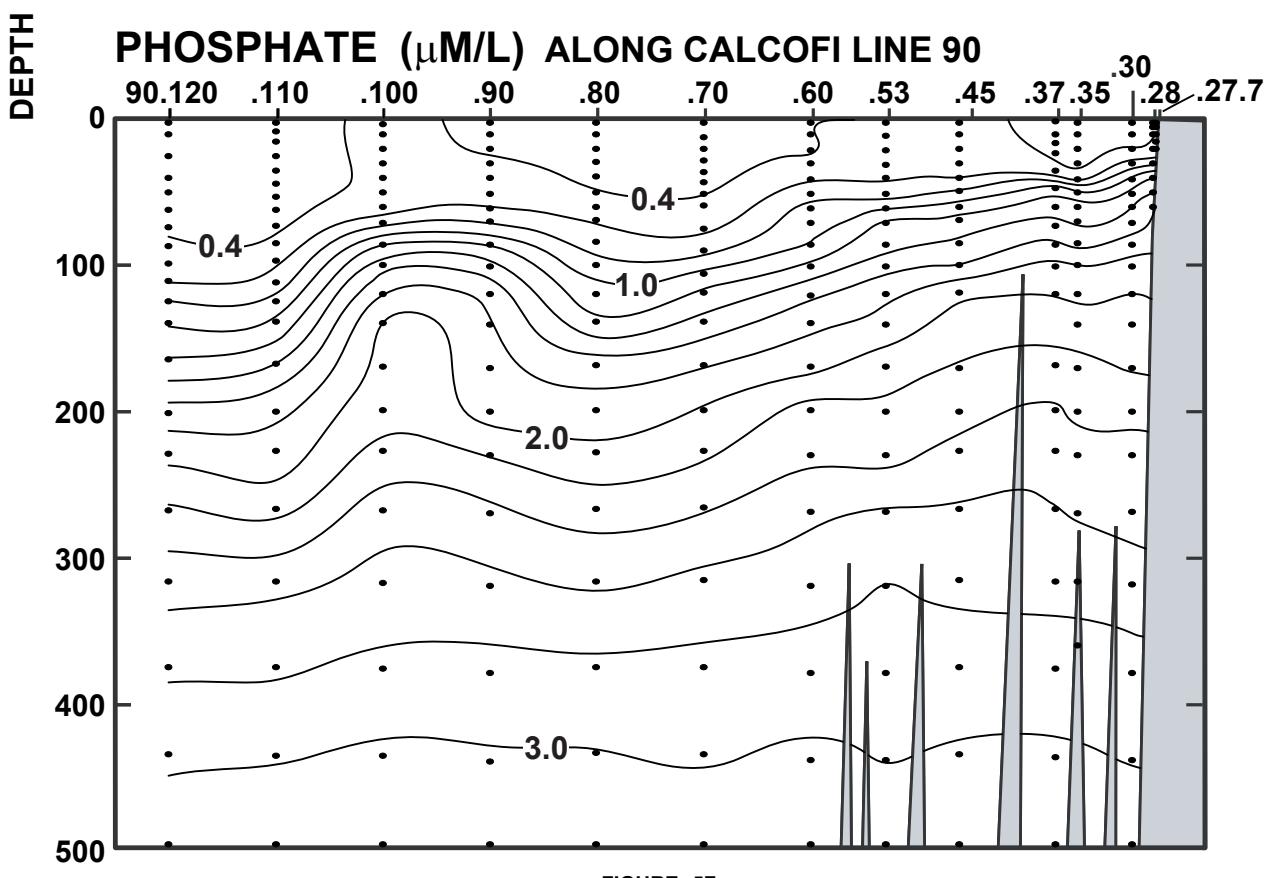
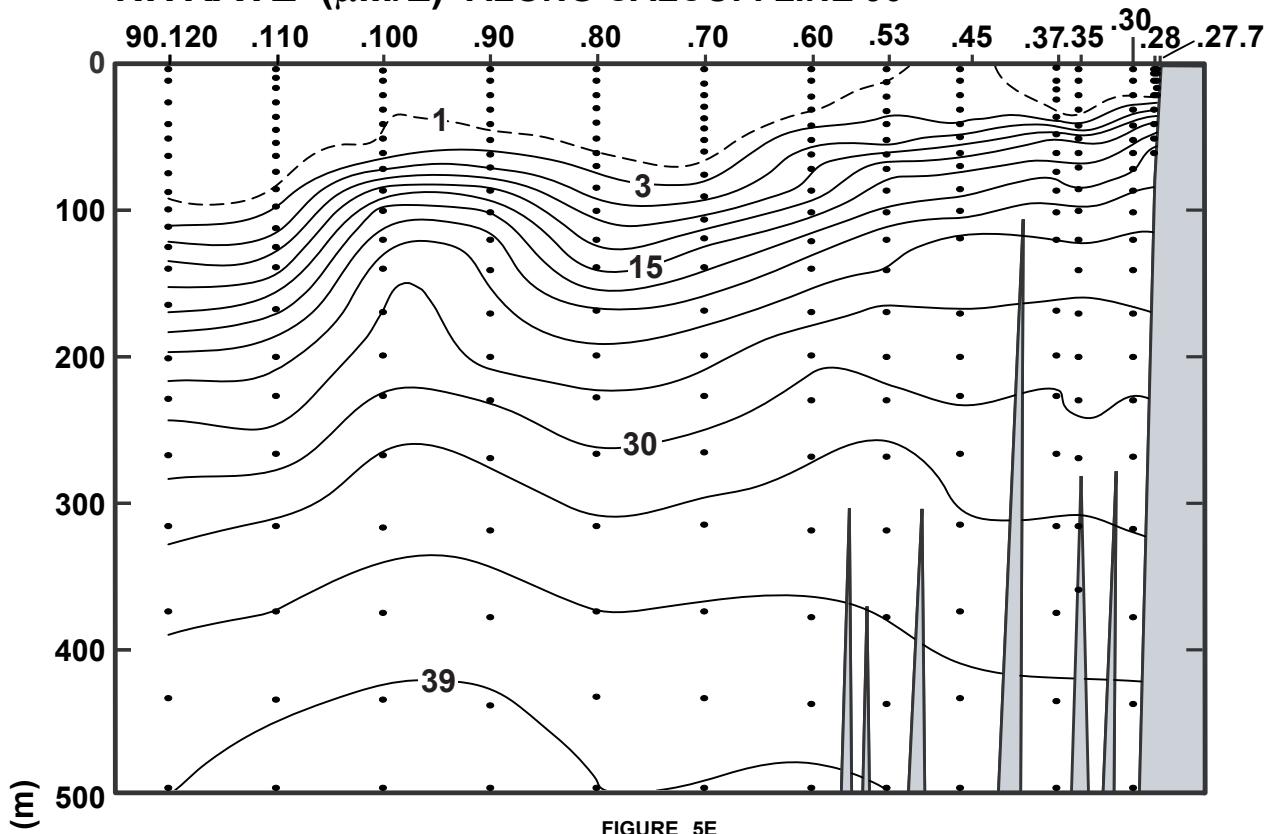


FIGURE 5D

CALCOFI CRUISE 0901

11 - 14 January 2009

NITRATE ($\mu\text{M/L}$) ALONG CALCOFI LINE 90



CALCOFI CRUISE 0901

11 - 14 January 2009

CHLOROPHYLL-a ($\mu\text{g/L}$) ALONG CALCOFI LINE 90

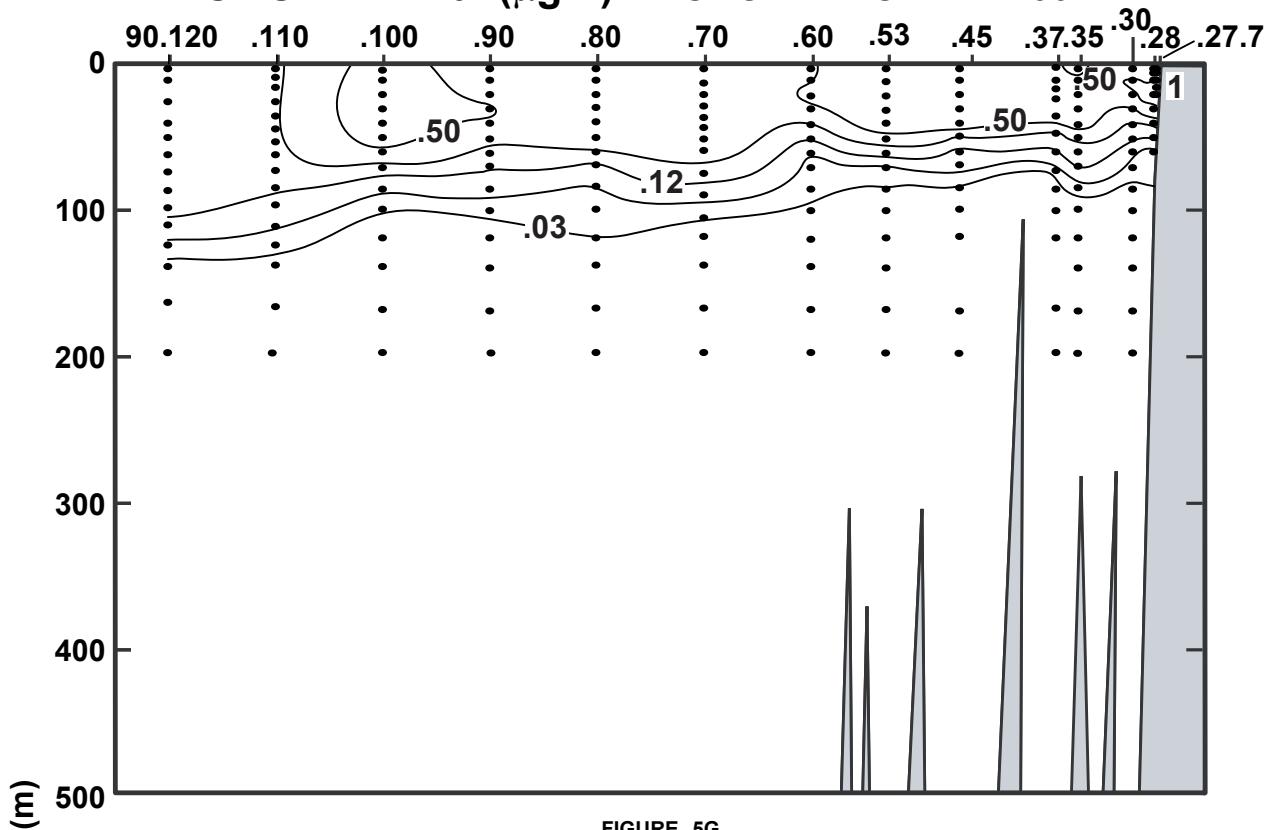


FIGURE 5G

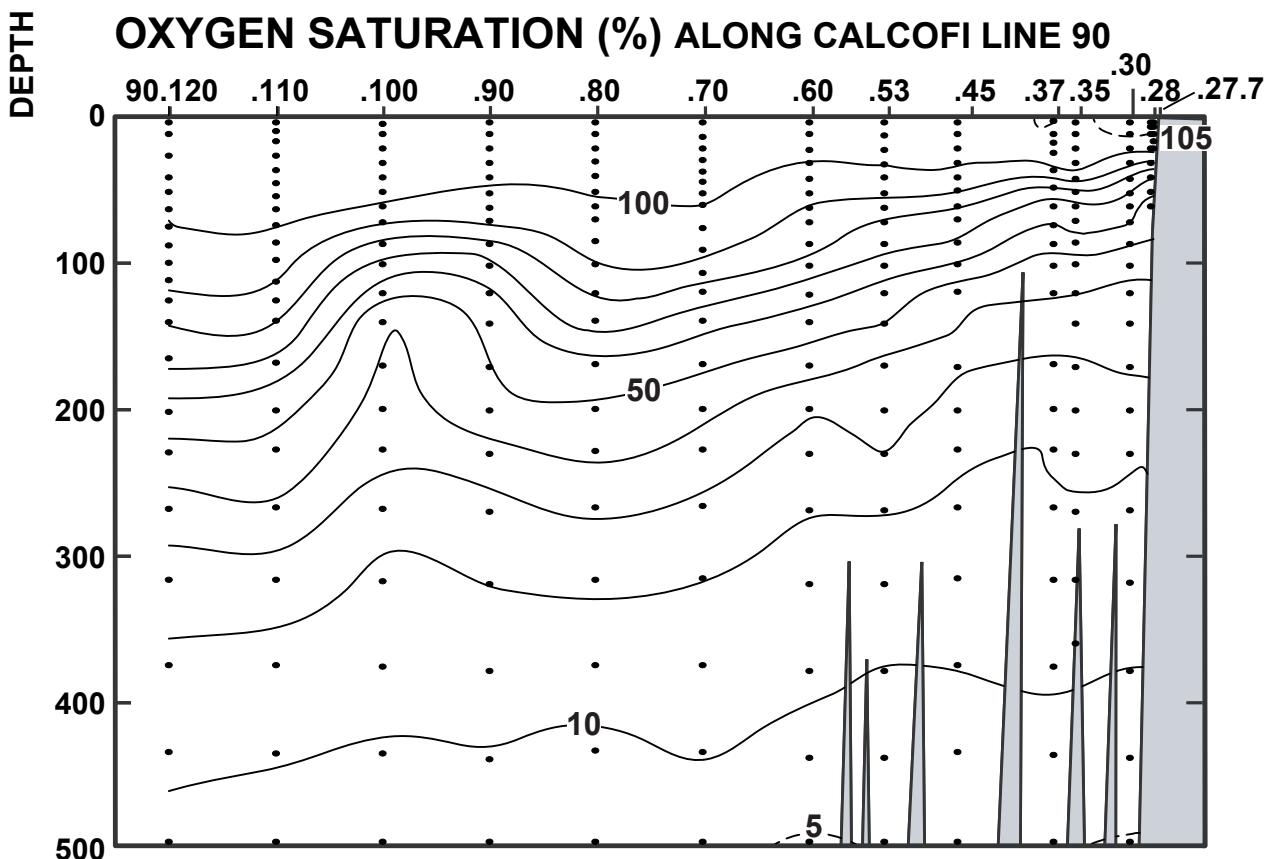


FIGURE 5H

CALCOFI CRUISE 0901

11 - 14 January 2009

OXYGEN (mL/L) ALONG CALCOFI LINE 90

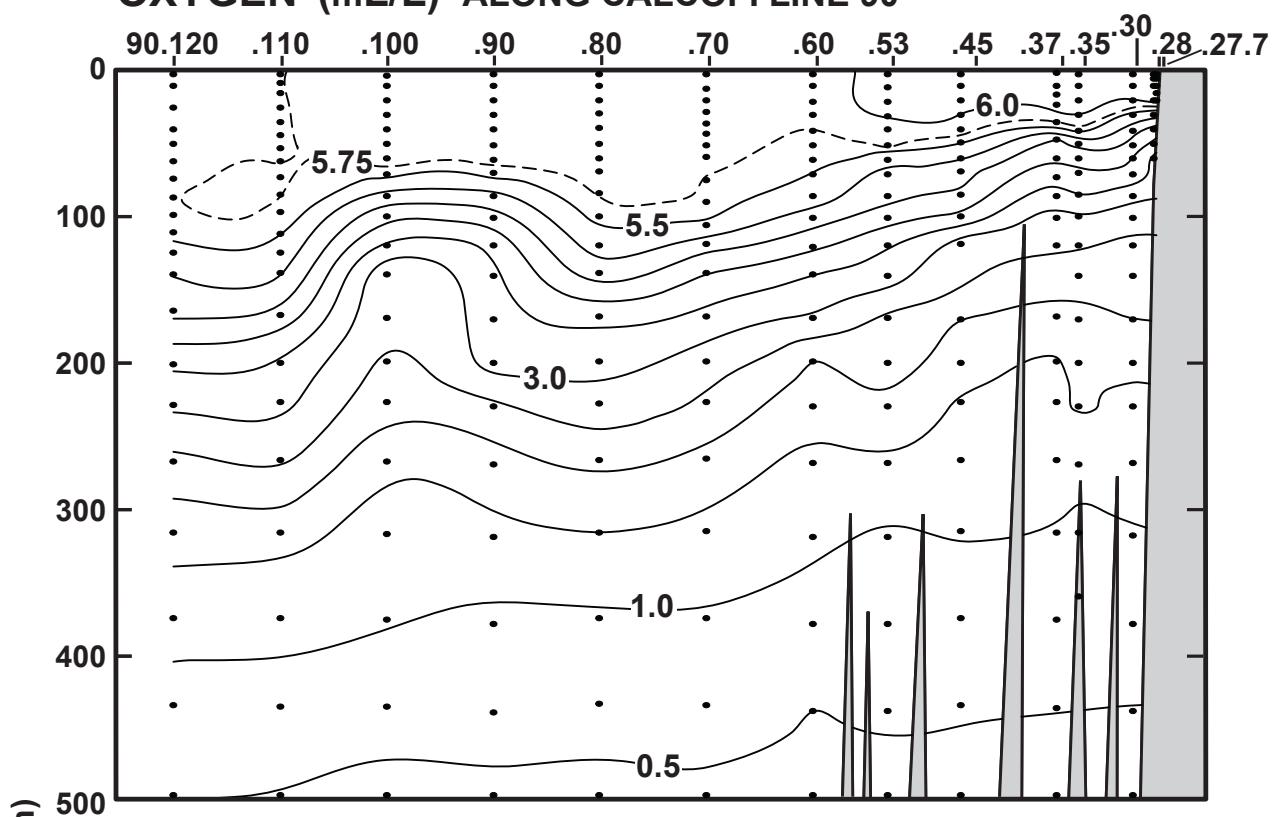


FIGURE 5I

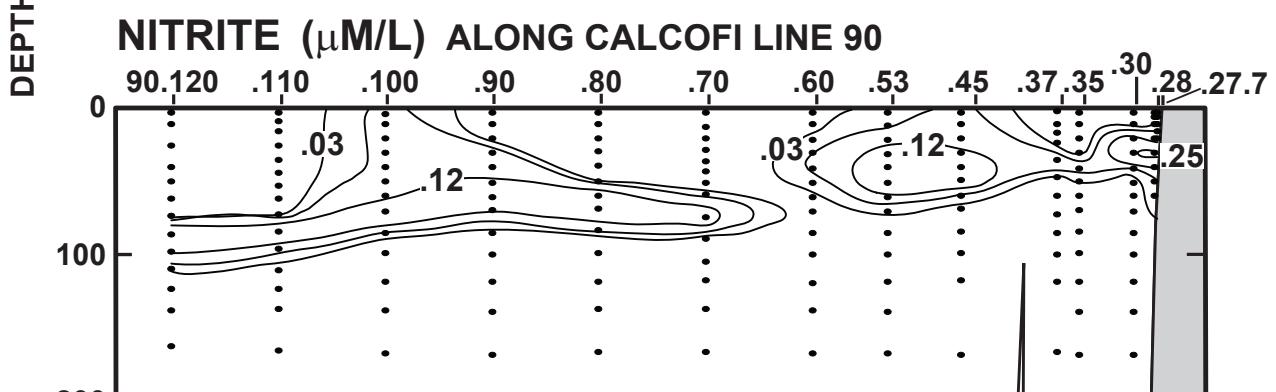


FIGURE 5J

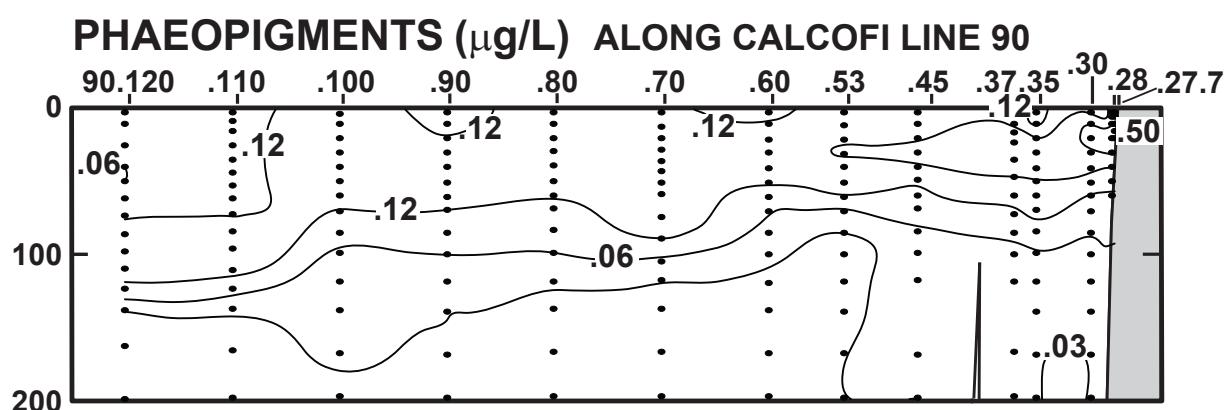


FIGURE 5K

PERSONNEL

CalCOFI Cruise 0901

SHIP'S CAPTAIN

Chris Curl, RV *New Horizon*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | | Participating (Legs) |
|--|-------------------------------|----------------------|
| Wolgast, David M. (Chief Scientist) | Staff Research Associate, SIO | 1,2 |
| Camacho-Wylie, Dominique | Marine Mammal Observer, MPL | 1,2 |
| Dovel, Shonna L. | Staff Research Associate, SIO | 1,2 |
| Fowler-Gerace, Neva | Volunteer | 1,2 |
| Havron, Andrea M. | Marine Mammal Observer, MPL | 1,2 |
| Hays, Amy E. | Fishery Biologist, NMFS | 1,2 |
| Koslow, Tony, Dr. | Researcher/Director, CalCOFI | 1 |
| Liu, Jian | Staff Research Associate, SIO | 1,2 |
| Manion, Sue | Fishery Biologist, NMFS | 1,2 |
| Munger, Lisa | Post-Doc, SIO | 1,2 |
| Murdoch, Craig C. | Volunteer | 1,2 |
| Overcash, Brian J. | Staff Research Associate, SIO | 1,2 |
| Roadman, Megan | Staff Research Associate, SIO | 1,2 |
| Rodgers-Wolgast, Jennifer L. | Staff Research Associate, SIO | 1,2 |
| Susner, Micheal G. | Staff Research Associate, SIO | 1,2 |
| Wilkinson, James A. | Programmer Analyst, SIO | 1,2 |

Leg 1: San Diego to Dana Point, California, 7-13 January, 2009

Leg 2: Dana Point to San Diego, California, 13-23 January, 2009

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 49.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|--------|--------|------|------|-----|
| | | | | | 70 m | 270 | 05 kn | | | 1014.2 mb | 14.0 C | 13.0 C | | | | | | |
| 35 5.4 N | 120 46.6 W | 23/01/09 | 0359 | UTC | | | | | | | | | | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP | |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | | |
| 0 ISL | 13.37 | 13.37 | 33.406 | 25.085 | 286.7 | 0.000 | 6.83 | 115.0 | 1.4 | 0.33 | 0.3 | 0.03 | 0.27 | 2.70 | 0.00 | 0 | | |
| 2 | 13.37 | 13.37 | 33.406 | 25.085 | 286.7 | 0.006 | 6.83 | 115.0 | 1.4 | 0.33 | 0.3 | 0.03 | 0.27 | 2.70 | 0.00 | 2 | 209 | |
| 5 | 13.35 | 13.35 | 33.406 | 25.089 | 286.4 | 0.014 | 6.84 | 115.1 | 1.5 | 0.32 | 0.3 | 0.03 | 0.28 | 2.20 | 0.49 | 5 | 208 | |
| 10 | 13.25 | 13.25 | 33.406 | 25.109 | 284.6 | 0.029 | 6.78 | 113.9 | 1.5 | 0.31 | 0.4 | 0.04 | 0.31 | 2.53 | 0.30 | 10 | 206 | |
| 10 | 13.26 | 13.26 | 33.411 | 25.111 | 284.5 | 0.029 | | | | | | | | | | | 10 | 207 |
| 20 | 13.13 | 13.13 | 33.408 | 25.135 | 282.5 | 0.057 | 6.68 | 111.9 | 1.6 | 0.36 | 0.6 | 0.05 | 0.49 | 2.94 | 0.26 | 20 | 205 | |
| 30 | 12.99 | 12.99 | 33.412 | 25.166 | 279.8 | 0.085 | 6.50 | 108.6 | 2.2 | 0.43 | 1.1 | 0.08 | 0.69 | 3.29 A | 0.32 A | 30 | 204 | |
| 41 | 12.59 | 12.58 | 33.435 | 25.263 | 270.9 | 0.115 | 5.64 | 93.4 | 6.5 | 0.81 | 5.1 | 0.23 | 1.17 | 1.93 | 0.92 | 41 | 203 | |
| 50 ISL | 12.40 D | 12.39 | 33.450 D | 25.311 | 266.5 | 0.140 | 5.30 | 87.5 | 8.5 | 0.96 | 6.8 | 0.27 | 1.20 | 1.42 | 0.86 | 50 | | |
| 51 | 12.39 | 12.38 | 33.454 | 25.316 | 266.0 | 0.142 | 5.27 | 86.9 | 8.7 | 0.97 | 7.0 | 0.27 | 1.20 | 1.38 | 0.85 | 51 | 202 | |
| 62 | 11.98 | 11.97 | 33.493 | 25.425 | 256.0 | 0.171 | 4.68 | 76.6 | 12.5 | 1.18 | 10.6 | 0.32 | 0.87 | 0.70 | 0.91 | 62 | 201 | |

A) SECOND FLUOROMETER READING NOT ACCEPTED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 51.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|------------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|--------|--------|--------|-------|--------|------|------|
| | | | | | 247 m | 340 | 09 kn | 290 | 03 09 | 1013.5 mb | 15.0 C | 13.2 C | | 7/8 | | SC | |
| 35 1.5 N | 120 55.3 W | 23/01/09 | 0124 | UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 13.42 | 13.42 | 33.376 | 25.052 | 289.9 | 0.000 | 6.47 | 109.0 | 5.2 | 0.42 | 1.1 | 0.04 | 0.18 | 0.91 | 0.22 | 0 | |
| 2 | 13.42 | 13.42 | 33.376 | 25.052 | 289.9 | 0.006 | 6.47 | 109.0 | 5.2 | 0.42 | 1.1 | 0.04 | 0.18 | 0.91 | 0.22 | 2 | 216 |
| 10 ISL | 13.41 D | 13.41 | 33.371 D | 25.050 | 290.3 | 0.029 | 6.48 | 109.2 | 5.1 | 0.42 | 1.1 | 0.04 | 0.17 | 1.00 | 0.17 | 10 | |
| 11 | 13.40 | 13.40 | 33.376 | 25.056 | 289.8 | 0.032 | 6.48 | 109.2 | 5.1 | 0.42 | 1.1 | 0.04 | 0.17 | 1.01 | 0.17 | 11 | 214 |
| 11 | 13.41 | 13.41 | 33.375 | 25.053 | 290.0 | 0.032 | | | | | | | | | | 11 | 215 |
| 20 ISL | 13.18 D | 13.18 | 33.380 D | 25.103 | 285.5 | 0.058 | 6.38 | 107.0 | 5.5 | 0.48 | 1.8 | 0.06 | 0.24 | 1.05 | 0.24 | 20 | |
| 21 | 13.13 | 13.13 | 33.383 | 25.116 | 284.3 | 0.061 | 6.37 | 106.7 | 5.5 | 0.49 | 1.9 | 0.06 | 0.25 | 1.05 | 0.25 | 21 | 213 |
| 30 ISL | 12.66 D | 12.66 | 33.390 D | 25.214 | 275.2 | 0.086 | 5.96 | 98.9 | 6.8 | 0.67 | 4.4 | 0.19 | 0.34 | 0.84 | 0.27 | 30 | |
| 31 | 12.67 | 12.67 | 33.394 | 25.215 | 275.1 | 0.089 | 5.91 | 98.1 | 7.0 | 0.69 | 4.7 | 0.21 | 0.34 | 0.81 | 0.27 | 31 | 212 |
| 41 | 12.36 | 12.35 | 33.410 | 25.288 | 268.5 | 0.116 | 5.47 | 90.2 | 8.8 | 0.84 | 7.3 | 0.33 | 0.07 | 0.51 | 0.37 | 41 | 211 |
| 50 | 11.81 | 11.80 | 33.439 | 25.414 | 256.6 | 0.139 | 4.84 | 78.9 | 12.0 | 1.12 | 11.8 | 0.15 | 0.01 | 0.27 | 0.26 | 50 | 210 |
| 60 | 11.28 | 11.27 | 33.534 | 25.585 | 240.5 | 0.164 | 4.16 | 67.1 | 15.8 | 1.39 | 15.7 | 0.14 | 0.01 | 0.19 | 0.23 | 60 | 209 |
| 71 | 10.94 | 10.93 | 33.622 | 25.715 | 228.4 | 0.190 | 3.71 | 59.4 | 18.9 | 1.58 | 18.1 | 0.15 | 0.01 | 0.15 | 0.22 | 71 | 208 |
| 75 ISL | 10.70 D | 10.69 | 33.645 D | 25.776 | 222.7 | 0.199 | 3.59 | 57.2 | 19.7 | 1.62 | 18.8 | 0.13 | 0.01 | 0.13 | 0.21 | 75 | |
| 86 | 10.59 | 10.58 | 33.703 | 25.840 | 216.8 | 0.223 | 3.31 | 52.6 | 21.6 | 1.73 | 20.6 | 0.05 | 0.00 | 0.09 | 0.18 | 86 | 207 |
| 100 ISL | 10.23 D | 10.22 | 33.789 D | 25.970 | 204.8 | 0.253 | 2.93 | 46.2 | 24.1 | 1.90 | 22.9 | 0.00 | 0.00 | 0.05 | 0.16 | 101 | |
| 101 | 10.22 | 10.21 | 33.794 | 25.975 | 204.3 | 0.255 | 2.91 | 45.9 | 24.3 | 1.91 | 23.0 | 0.00 | 0.00 | 0.05 | 0.16 | 102 | 206 |
| 122 | 9.77 | 9.76 | 33.872 | 26.112 | 191.6 | 0.296 | 2.69 | 42.0 | 27.6 | 2.01 | 24.7 | 0.00 | 0.00 | 0.03 | 0.14 | 123 | 205 |
| 125 ISL | 9.75 D | 9.74 | 33.876 D | 26.119 | 191.1 | 0.302 | 2.68 | 41.9 | 27.9 | 2.02 | 24.9 | 0.00 | 0.00 | 0.03 | 0.14 | 126 | |
| 142 | 9.58 | 9.56 | 33.927 | 26.187 | 184.9 | 0.334 | 2.58 | 40.2 | 29.4 | 2.08 | 25.7 | 0.01 | 0.01 | 0.03 | 0.13 | 143 | 204 |
| 150 ISL | 9.52 D | 9.50 | 33.936 D | 26.204 | 183.5 | 0.349 | 2.48 | 38.6 | 30.4 | 2.11 | 26.1 | 0.02 | 0.01 | 0.03 | 0.14 | 151 | |
| 171 | 9.24 | 9.22 | 34.009 | 26.307 | 174.1 | 0.386 | 2.15 | 33.2 | 33.5 | 2.22 | 27.2 | 0.07 | 0.03 | 0.02 | 0.19 | 172 | 203 |
| 200 | 8.91 | 8.89 | 34.083 | 26.418 | 164.0 | 0.435 | 1.75 | 26.9 | 38.5 | 2.40 | 29.1 | 0.11 | 0.12 | 0.00 | 0.23 | 201 | 202 |
| 237 | 8.66 | 8.63 | 34.128 | 26.493 | 157.5 | 0.495 | 1.40 | 21.4 | 42.9 | 2.55 | 30.5 | 0.15 | 0.15 | 0.00 | 0.23 | 238 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|--------|--------|--------|-------|--------|------|------|
| | | | | | 571 m | 020 | 02 kn | 280 | 03 09 | 1013.7 mb | 14.8 C | 13.2 C | | 13m | | SC | |
| 34 53.4 N | 121 11.7 W | 22/01/09 | 2141 | UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 13.39 | 13.39 | 33.385 | 25.065 | 288.6 | 0.000 | 6.42 | 108.1 | 5.5 | 0.48 | 1.7 | 0.07 | 0.20 | 1.06 | 0.05 | 0 | |
| 2 | 13.39 | 13.39 | 33.385 | 25.065 | 288.7 | 0.006 | 6.42 | 108.1 | 5.5 | 0.48 | 1.7 | 0.07 | 0.20 | 1.06 | 0.05 | 2 | 221 |
| 9 | 13.17 | 13.17 | 33.401 | 25.121 | 283.5 | 0.026 | 6.52 | 109.3 | 5.1 | 0.48 | 1.6 | 0.07 | 0.20 | 1.40 | 0.11 | 9 | 219 |
| 9 | 13.18 | 13.18 | 33.400 | 25.119 | 283.7 | 0.026 | | | | | | | | | | 9 | 220 |
| 10 ISL | 13.13 D | 13.13 | 33.399 D | 25.128 | 282.9 | 0.029 | 6.51 | 109.1 | 4.9 | 0.48 | 1.6 | 0.07 | 0.21 | 1.40 | 0.12 | 10 | |
| 19 | 12.93 | 12.93 | 33.411 | 25.177 | 278.4 | 0.054 | 6.47 | 107.9 | 3.9 | 0.50 | 1.7 | 0.10 | 0.39 | 1.36 | 0.28 | 19 | 218 |
| 20 ISL | 12.85 D | 12.85 | 33.413 D | 25.194 | 276.8 | 0.057 | 6.41 | 106.8 | 4.1 | 0.52 | 1.9 | 0.12 | 0.45 | 1.32 | 0.30 | 20 | |
| 30 | 12.38 | 12.38 | 33.423 | 25.293 | 267.6 | 0.084 | 5.60 | 92.4 | 7.3 | 0.81 | 6.0 | 0.35 | 0.81 | 0.78 | 0.46 | 30 | 217 |
| 39 | 11.77 | 11.77 | 33.459 | 25.437 | 254.2 | 0.107 | 4.96 | 80.8 | 12.0 | 1.12 | 11.4 | 0.38 | 0.12 | 0.41 | 0.37 | 39 | 216 |
| 49 | 11.46 | 11.45 | 33.550 | 25.565 | 242.2 | 0.132 | 4.20 | 68.0 | 15.2 | 1.35 | 14.9 | 0.27 | 0.03 | 0.39 | 0.32 | 49 | 215 |
| 50 ISL | 11.38 D | 11.37 | 33.557 D | 25.585 | 240.3 | 0.135 | 4.12 | 66.6 | 15.6 | 1.38 | 15.4 | 0.25 | 0.03 | 0.37 | 0.31 | 50 | |
| 59 | 10.87 | 10.86 | 33.646 | 25.746 | 225.2 | 0.156 | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|----------|--------|--------|-------|-------|-----------|------|------|--------|-------|--------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 13.25 | 13.25 | 33.390 | 25.097 | 285.6 | 0.000 | 6.89 | 115.7 | 3.1 | 0.34 | 0.2 | 0.02 | 0.10 | 1.41 | 0.23 | 0 |
| 1 | A | 13.25 | 13.25 | 33.390 | 25.097 | 285.6 | 0.003 | 6.89 | 115.7 | 3.1 | 0.34 | 0.2 | 0.02 | 0.10 | 1.41 | 0.23 | 1 223 |
| 5 | A | 13.26 | 13.26 | 33.390 | 25.095 | 285.9 | 0.014 | 6.95 | 116.7 | 3.1 | 0.34 | 0.2 | 0.01 | 0.09 | 1.39 | 0.26 | 5 222 |
| 9 | | 13.20 | 13.20 | 33.402 | 25.116 | 284.0 | 0.026 | 6.83 | 114.6 | 3.4 | 0.38 | 0.4 | 0.02 | 0.16 | 1.33 | 0.25 | 9 221 |
| 10 | ISL | 13.07 | D 13.07 | 33.407 | D 25.146 | 281.1 | 0.029 | 6.78 | 113.5 | 3.6 | 0.40 | 0.7 | 0.03 | 0.19 | 1.33 | 0.27 | 10 |
| 16 | A | 12.69 | 12.69 | 33.412 | 25.225 | 273.8 | 0.045 | 6.41 | 106.4 | 4.8 | 0.56 | 2.6 | 0.11 | 0.43 | 1.31 | 0.38 | 16 220 |
| 20 | ISL | 12.55 | D 12.55 | 33.408 | D 25.249 | 271.6 | 0.056 | 6.15 | 101.8 | 5.7 | 0.65 | 3.7 | 0.18 | 0.59 | 1.09 | 0.41 | 20 |
| 21 | A | 12.55 | 12.55 | 33.413 | 25.253 | 271.3 | 0.059 | 6.09 | 100.8 | 5.9 | 0.67 | 3.9 | 0.20 | 0.63 | 1.02 | 0.41 | 21 219 |
| 30 | ISL | 12.46 | D 12.46 | 33.409 | D 25.267 | 270.1 | 0.083 | 5.86 | 96.8 | 6.6 | 0.73 | 4.6 | 0.32 | 0.74 | 0.59 | 0.44 | 30 |
| 31 | A | 12.47 | 12.47 | 33.413 | 25.268 | 270.0 | 0.086 | 5.84 | 96.5 | 6.7 | 0.73 | 4.7 | 0.33 | 0.75 | 0.55 | 0.44 | 31 218 |
| 39 | | 12.29 | 12.28 | 33.424 | 25.312 | 266.1 | 0.107 | 5.58 | 91.9 | 8.4 | 0.85 | 6.9 | 0.39 | 0.39 | 0.40 | 0.36 | 39 217 |
| 48 | A | 11.59 | 11.58 | 33.475 | 25.483 | 250.0 | 0.131 | 4.70 | 76.2 | 12.9 | 1.19 | 12.9 | 0.18 | 0.01 | 0.23 | 0.28 | 48 216 |
| 50 | ISL | 11.40 | D 11.39 | 33.483 | D 25.524 | 246.1 | 0.135 | 4.60 | 74.3 | 13.5 | 1.24 | 13.7 | 0.16 | 0.01 | 0.24 | 0.31 | 50 |
| 53 | | 11.21 | 11.20 | 33.486 | 25.561 | 242.7 | 0.143 | 4.46 | 71.8 | 14.6 | 1.32 | 14.9 | 0.13 | 0.01 | 0.24 | 0.35 | 53 215 |
| 59 | | 10.65 | 10.64 | 33.545 | 25.706 | 229.0 | 0.157 | 3.92 | 62.3 | 18.2 | 1.56 | 18.7 | 0.03 | 0.02 | 0.12 | 0.25 | 59 214 |
| 70 | | 10.18 | 10.17 | 33.702 | 25.910 | 209.8 | 0.181 | 3.33 | 52.5 | 22.1 | 1.75 | 21.7 | 0.02 | 0.01 | 0.04 | 0.15 | 70 213 |
| 75 | ISL | 10.02 | D 10.01 | 33.709 | D 25.942 | 206.8 | 0.192 | 3.28 | 51.5 | 22.8 | 1.78 | 22.3 | 0.02 | 0.01 | 0.04 | 0.15 | 75 |
| 84 | | 9.98 | 9.97 | 33.740 | 25.974 | 204.0 | 0.210 | 3.20 | 50.2 | 23.5 | 1.82 | 22.8 | 0.02 | 0.02 | 0.03 | 0.15 | 84 212 |
| 100 | | 9.69 | 9.68 | 33.820 | 26.085 | 193.8 | 0.242 | 2.91 | 45.4 | 26.1 | 1.93 | 24.2 | 0.01 | 0.00 | 0.01 | 0.11 | 101 211 |
| 119 | | 9.48 | 9.47 | 33.904 | 26.185 | 184.6 | 0.278 | 2.61 | 40.5 | 28.6 | 2.02 | 25.5 | 0.00 | 0.00 | 0.01 | 0.10 | 120 210 |
| 125 | ISL | 9.35 | D 9.34 | 33.947 | D 26.240 | 179.5 | 0.289 | 2.53 | 39.2 | 29.4 | 2.05 | 25.8 | 0.00 | 0.00 | 0.01 | 0.10 | 126 |
| 139 | | 9.30 | 9.28 | 33.972 | 26.268 | 177.1 | 0.314 | 2.38 | 36.8 | 31.0 | 2.10 | 26.5 | 0.00 | 0.00 | 0.01 | 0.10 | 140 209 |
| 150 | ISL | 9.17 | D 9.15 | 33.996 | D 26.308 | 173.5 | 0.333 | 2.31 | 35.7 | 31.9 | 2.13 | 26.9 | 0.00 | 0.00 | 0.01 | 0.09 | 151 |
| 168 | | 9.06 | 9.04 | 34.030 | 26.352 | 169.7 | 0.364 | 2.17 | 33.4 | 33.7 | 2.18 | 27.6 | 0.00 | 0.00 | 0.01 | 0.08 | 169 208 |
| 200 | | 8.72 | 8.70 | 34.127 | 26.482 | 157.9 | 0.416 | 1.65 | 25.2 | 39.6 | 2.39 | 29.5 | 0.00 | 0.00 | 0.00 | 0.09 | 201 207 |
| 228 | | 8.37 | 8.35 | 34.174 | 26.573 | 149.6 | 0.459 | 1.33 | 20.2 | 44.2 | 2.52 | 31.1 | 0.00 | 0.00 | | 229 206 | |
| 250 | ISL | 8.16 | D 8.13 | 34.188 | D 26.616 | 145.9 | 0.492 | 1.19 | 18.0 | 46.8 | 2.60 | 31.9 | 0.00 | 0.00 | | 252 | |
| 269 | | 8.03 | 8.00 | 34.204 | 26.649 | 143.1 | 0.519 | 1.11 | 16.7 | 49.1 | 2.66 | 32.5 | 0.00 | 0.00 | | 271 205 | |
| 300 | ISL | 7.37 | D 7.34 | 34.186 | D 26.730 | 135.5 | 0.562 | 0.94 | 13.9 | 54.6 | 2.76 | 33.8 | 0.00 | 0.00 | | 302 | |
| 319 | | 7.25 | 7.22 | 34.206 | 26.763 | 132.6 | 0.588 | 0.85 | 12.6 | 58.2 | 2.82 | 34.7 | 0.00 | 0.00 | | 321 204 | |
| 377 | | 6.51 | 6.48 | 34.197 | 26.857 | 124.1 | 0.662 | 0.72 | 10.5 | 66.9 | 2.94 | 37.1 | 0.00 | 0.00 | | 380 203 | |
| 400 | ISL | 6.28 | D 6.24 | 34.207 | D 26.895 | 120.6 | 0.690 | 0.61 | 8.8 | 70.4 | 3.00 | 37.9 | 0.00 | 0.00 | | 403 | |
| 438 | | 6.09 | 6.05 | 34.250 | 26.954 | 115.4 | 0.735 | 0.43 | 6.2 | 75.5 | 3.08 | 39.0 | 0.00 | 0.00 | | 441 202 | |
| 500 | ISL | 5.77 | D 5.73 | 34.285 | D 27.022 | 109.5 | 0.805 | 0.33 | 4.7 | 80.7 | 3.14 | 39.7 | 0.00 | 0.00 | | 504 | |
| 515 | | 5.76 | 5.72 | 34.286 | 27.024 | 109.5 | 0.821 | 0.30 | 4.3 | 82.0 | 3.15 | 39.9 | 0.00 | 0.00 | | 519 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS;PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|----------|--------|--------|-------|-------|-----------|------|------|--------|-------|--------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 12.66 | 12.66 | 33.094 | 24.984 | 296.3 | 0.000 | 6.28 | 104.0 | 6.0 | 0.60 | 3.5 | 0.09 | 0.09 | 0.86 | 0.22 | 0 |
| 2 | | 12.66 | 12.66 | 33.094 | 24.984 | 296.4 | 0.006 | 6.28 | 104.0 | 6.0 | 0.60 | 3.5 | 0.09 | 0.09 | 0.86 | 0.22 | 2 220 |
| 10 | | 12.48 | 12.48 | 33.223 | 25.119 | 283.7 | 0.029 | 6.34 | 104.7 | 6.5 | 0.63 | 3.9 | 0.11 | 0.08 | 0.88 | 0.12 | 10 219 |
| 20 | | 12.23 | 12.23 | 33.353 | 25.268 | 269.8 | 0.057 | 6.32 | 103.9 | 7.1 | 0.67 | 4.7 | 0.15 | 0.05 | 1.14 | 0.30 | 20 218 |
| 30 | | 11.97 | 11.97 | 33.378 | 25.336 | 263.5 | 0.083 | 6.02 | 98.4 | 8.2 | 0.80 | 6.6 | 0.27 | 0.17 | 1.02 | 0.46 | 30 217 |
| 40 | | 11.82 | 11.81 | 33.419 | 25.396 | 258.0 | 0.110 | 5.80 | 94.5 | 9.4 | 0.92 | 8.2 | 0.40 | 0.18 | 0.43 | 0.43 | 40 216 |
| 50 | | 11.63 | 11.62 | 33.415 | 25.429 | 255.2 | 0.135 | 5.56 | 90.2 | 10.4 | 1.02 | 9.6 | 0.45 | 0.03 | 0.30 | 0.21 | 50 215 |
| 60 | | 10.92 | 10.91 | 33.458 | 25.591 | 240.0 | 0.160 | 4.63 | 74.0 | 14.7 | 1.33 | 15.1 | 0.05 | 0.01 | 0.10 | 0.18 | 60 214 |
| 70 | | 10.00 | 9.99 | 33.547 | 25.819 | 218.4 | 0.183 | 3.98 | 62.4 | 19.7 | 1.62 | 19.9 | 0.01 | 0.01 | 0.03 | 0.09 | 70 213 |
| 75 | ISL | 9.87 | D 9.86 | 33.616 | D 25.895 | 211.3 | 0.194 | 3.75 | 58.7 | 21.2 | 1.70 | 21.1 | 0.01 | 0.01 | 0.02 | 0.09 | 75 |
| 84 | | 9.87 | 9.86 | 33.693 | 25.955 | 205.8 | 0.212 | 3.42 | 53.5 | 23.2 | 1.80 | 22.5 | 0.01 | 0.00 | 0.01 | 0.09 | 84 212 |
| 100 | | 9.41 | 9.40 | 33.820 | 26.130 | 189.4 | 0.244 | 2.96 | 45.9 | 27.3 | 1.98 | 25.0 | 0.00 | 0.00 | 0.01 | 0.07 | 101 211 |
| 119 | | 9.00 | 8.99 | 33.903 | 26.261 | 177.3 | 0.279 | 2.72 | 41.8 | 30.5 | 2.06 | 26.5 | 0.00 | 0.01 | 0.00 | 0.05 | 120 210 |
| 125 | ISL | 8.95 | D 8.94 | 33.921 | D 26.284 | 175.3 | 0.289 | 2.62 | 40.2 | 31.5 | 2.09 | 26.9 | 0.00 | 0.01 | 0.00 | 0.05 | 126 |
| 138 | | 8.75 | 8.74 | 33.981 | 26.362 | 168.0 | 0.312 | 2.38 | 36.4 | 33.7 | 2.16 | 27.8 | 0.00 | 0.00 | 0.00 | 0.05 | 139 209 |
| 150 | ISL | 8.50 | D 8.48 | 34.012 | D 26.425 | 162.2 | 0.332 | 2.16 | 32.8 | 35.9 | 2.24 | 28.8 | 0.00 | 0.00 | 0.00 | 0.05 | 151 |
| 169 | | 8.38 | 8.36 | 34.059 | 26.481 | 157.3 | 0.362 | 1.82 | 27.6 | 39.4 | 2.37 | 30.3 | 0.00 | 0.00 | 0.00 | 0.05 | 170 208 |
| 200 | ISL | 8.19 | D 8.17 | 34.119 | D 26.557 | 150.5 | 0.410 | 1.36 | 20.5 | 44.1 | 2.54 | 32.1 | 0.02 | 0.00 | 0.00 | 0.03 | 201 |
| 201 | | 8.20 | 8.18 | 34.117 | 26.554 | 150.9 | 0.411 | 1.35 | 20.4 | 44.2 | 2.54 | 32.1 | 0.02 | 0.00 | 0.00 | 0.03 | 202 207 |
| 229 | | 7.91 | 7.89 | 34.139 | 26.615 | 145.5 | 0.453 | 1.23 | 18.5 | 48.0 | 2.62 | 33.0 | 0.00 | 0.00 | | 230 206 | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.97 | 14.97 | 33.126 | 24.535 | 339.1 | 0.000 | 5.84 | 101.4 | 2.3 | 0.35 | 0.1 | 0.01 | 0.07 | 0.30 | 0.13 | 0 | |
| 2 | 14.97 | 14.97 | 33.126 | 24.535 | 339.1 | 0.007 | 5.84 | 101.4 | 2.3 | 0.35 | 0.1 | 0.01 | 0.07 | 0.30 | 0.13 | 2 | 220 |
| 10 ISL | 14.97 | 14.97 | 33.122 | 24.532 | 339.6 | 0.034 | 5.84 | 101.4 | 2.3 | 0.36 | 0.1 | 0.01 | 0.03 | 0.37 | 0.10 | 10 | |
| 11 | 14.97 | 14.97 | 33.132 | 24.540 | 338.9 | 0.037 | 5.84 | 101.4 | 2.3 | 0.36 | 0.1 | 0.01 | 0.03 | 0.38 | 0.09 | 11 | 219 |
| 20 ISL | 14.98 | 14.98 | 33.126 | 24.533 | 339.8 | 0.068 | 5.85 | 101.6 | 2.2 | 0.36 | 0.1 | 0.01 | 0.05 | 0.40 | 0.05 | 20 | |
| 26 | 14.98 | 14.98 | 33.128 | 24.535 | 339.8 | 0.088 | 5.85 | 101.6 | 2.2 | 0.35 | 0.1 | 0.01 | 0.07 | 0.41 | 0.04 | 26 | 218 |
| 30 ISL | 14.97 | 14.97 | 33.120 | 24.531 | 340.3 | 0.102 | 5.85 | 101.6 | 2.2 | 0.35 | 0.1 | 0.01 | 0.07 | 0.41 | 0.05 | 30 | |
| 40 | 14.98 | 14.97 | 33.127 | 24.535 | 340.3 | 0.136 | 5.86 | 101.8 | 2.3 | 0.35 | 0.1 | 0.01 | 0.07 | 0.39 | 0.08 | 40 | 217 |
| 50 ISL | 14.98 | 14.97 | 33.123 | 24.532 | 340.8 | 0.170 | 5.85 | 101.6 | 2.2 | 0.36 | 0.1 | 0.01 | 0.07 | 0.36 | 0.08 | 50 | |
| 51 | 14.97 | 14.96 | 33.125 | 24.536 | 340.5 | 0.173 | 5.85 | 101.6 | 2.2 | 0.36 | 0.1 | 0.01 | 0.07 | 0.36 | 0.08 | 51 | 216 |
| 63 | 14.94 | 14.93 | 33.118 | 24.537 | 340.7 | 0.214 | 5.83 | 101.2 | 2.1 | 0.36 | 0.1 | 0.01 | 0.10 | 0.31 | 0.10 | 63 | 215 |
| 75 ISL | 14.53 | 14.52 | 33.046 | 24.569 | 337.9 | 0.255 | 5.82 | 100.1 | 2.4 | 0.41 | 0.5 | 0.07 | 0.22 | 0.33 | 0.13 | 75 | |
| 76 | 14.57 | 14.56 | 33.062 | 24.573 | 337.6 | 0.258 | 5.82 | 100.2 | 2.4 | 0.41 | 0.5 | 0.07 | 0.23 | 0.33 | 0.13 | 76 | 214 |
| 88 | 12.80 | 12.79 | 32.919 | 24.823 | 313.9 | 0.297 | 5.90 | 97.9 | 3.9 | 0.59 | 2.8 | 0.29 | 0.06 | 0.22 | 0.12 | 88 | 213 |
| 100 | 11.04 | 11.03 | 32.817 | 25.072 | 290.2 | 0.334 | 5.84 | 93.2 | 5.9 | 0.81 | 6.2 | 0.01 | 0.05 | 0.09 | 0.09 | 100 | 212 |
| 113 | 10.33 | 10.32 | 32.958 | 25.305 | 268.2 | 0.370 | 5.51 | 86.7 | 9.3 | 1.05 | 10.4 | 0.01 | 0.06 | 0.05 | 0.05 | 114 | 211 |
| 125 | 10.25 | 10.24 | 33.215 | 25.519 | 248.1 | 0.401 | 5.16 | 81.2 | 10.7 | 1.06 | 11.3 | 0.01 | 0.03 | 0.01 | 0.02 | 126 | 210 |
| 141 | 10.06 | 10.04 | 33.465 | 25.746 | 226.8 | 0.439 | 4.86 | 76.2 | 12.4 | 1.12 | 13.0 | 0.01 | 0.00 | 0.01 | 0.01 | 142 | 209 |
| 150 ISL | 9.54 | 9.52 | 33.572 | 25.916 | 210.7 | 0.459 | 4.57 | 70.9 | 15.5 | 1.27 | 15.5 | 0.01 | 0.00 | 0.01 | 0.01 | 151 | |
| 171 | 9.04 | 9.02 | 33.766 | 26.149 | 189.0 | 0.501 | 3.89 | 59.8 | 23.5 | 1.65 | 21.6 | 0.00 | 0.00 | 0.00 | 0.01 | 172 | 208 |
| 200 | 8.73 | 8.71 | 33.902 | 26.304 | 174.7 | 0.553 | 3.41 | 52.1 | 28.4 | 1.82 | 24.5 | 0.00 | 0.00 | 0.00 | 0.01 | 201 | 207 |
| 231 | 8.23 | 8.21 | 33.965 | 26.431 | 163.1 | 0.606 | 3.06 | 46.2 | 33.8 | 1.97 | 26.8 | 0.00 | 0.00 | 0.00 | 0.00 | 232 | 206 |
| 250 ISL | 7.74 | 7.72 | 33.971 | 26.508 | 155.9 | 0.636 | 3.05 | 45.6 | 37.3 | 2.01 | 27.5 | 0.00 | 0.00 | 0.00 | 0.00 | 251 | |
| 271 | 7.41 | 7.38 | 33.977 | 26.560 | 151.1 | 0.668 | 3.01 | 44.6 | 41.4 | 2.07 | 28.3 | 0.00 | 0.00 | 0.00 | 0.00 | 273 | 205 |
| 300 ISL | 7.08 | 7.05 | 33.989 | 26.615 | 146.1 | 0.711 | 2.53 | 37.2 | 47.2 | 2.27 | 30.9 | 0.00 | 0.00 | 0.00 | 0.00 | 302 | |
| 320 | 6.92 | 6.89 | 34.013 | 26.656 | 142.4 | 0.740 | 2.13 | 31.2 | 51.2 | 2.42 | 32.8 | 0.00 | 0.00 | 0.00 | 0.00 | 322 | 204 |
| 382 | 6.36 | 6.33 | 34.068 | 26.775 | 131.8 | 0.825 | 1.31 | 19.0 | 62.6 | 2.74 | 36.6 | 0.00 | 0.00 | 0.00 | 0.00 | 384 | 203 |
| 400 ISL | 6.14 | 6.10 | 34.046 | 26.786 | 130.8 | 0.849 | 1.14 | 16.4 | 65.4 | 2.82 | 37.3 | 0.00 | 0.00 | 0.00 | 0.00 | 403 | |
| 440 | 6.00 | 5.96 | 34.128 | 26.869 | 123.4 | 0.900 | 0.85 | 12.2 | 71.2 | 2.95 | 38.5 | 0.00 | 0.00 | 0.00 | 0.00 | 443 | 202 |
| 500 ISL | 5.40 | 5.36 | 34.129 | 26.943 | 116.5 | 0.972 | 0.73 | 10.3 | 80.2 | 3.03 | 40.0 | 0.00 | 0.00 | 0.00 | 0.00 | 503 | |
| 513 | 5.36 | 5.32 | 34.141 | 26.957 | 115.2 | 0.987 | 0.70 | 9.9 | 82.1 | 3.05 | 40.3 | 0.00 | 0.00 | 0.00 | 0.00 | 516 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 15.31 | 15.31 | 33.226 | 24.538 | 338.8 | 0.000 | 5.80 | 101.5 | 2.1 | 0.32 | 0.0 | 0.00 | 0.00 | 0.13 | 0.04 | 0 | |
| 2 | 15.31 | 15.31 | 33.226 | 24.538 | 338.9 | 0.007 | 5.80 | 101.5 | 2.1 | 0.32 | 0.0 | 0.00 | 0.00 | 0.13 | 0.04 | 2 | 220 |
| 9 | 15.31 | 15.31 | 33.230 | 24.541 | 338.7 | 0.030 | 5.77 | 101.0 | 2.1 | 0.32 | 0.0 | 0.00 | 0.01 | 0.13 | 0.04 | 9 | 219 |
| 10 ISL | 15.31 | 15.31 | 33.221 | 24.534 | 339.4 | 0.034 | 5.77 | 101.0 | 2.1 | 0.32 | 0.0 | 0.00 | 0.01 | 0.13 | 0.04 | 10 | |
| 20 ISL | 15.31 | 15.31 | 33.221 | 24.535 | 339.7 | 0.068 | 5.78 | 101.1 | 2.1 | 0.33 | 0.0 | 0.00 | 0.01 | 0.13 | 0.05 | 20 | |
| 25 | 15.31 | 15.31 | 33.228 | 24.540 | 339.3 | 0.085 | 5.78 | 101.1 | 2.1 | 0.33 | 0.0 | 0.00 | 0.01 | 0.13 | 0.05 | 218 | |
| 30 ISL | 15.31 | 15.31 | 33.220 | 24.534 | 340.1 | 0.102 | 5.78 | 101.1 | 2.1 | 0.33 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 30 | |
| 39 | 15.30 | 15.29 | 33.227 | 24.542 | 339.6 | 0.132 | 5.78 | 101.1 | 2.1 | 0.32 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 39 | 217 |
| 49 | 15.30 | 15.29 | 33.224 | 24.540 | 340.1 | 0.166 | 5.79 | 101.3 | 2.1 | 0.32 | 0.0 | 0.00 | 0.02 | 0.16 | 0.05 | 49 | 216 |
| 50 ISL | 15.29 | 15.28 | 33.216 | 24.536 | 340.5 | 0.170 | 5.79 | 101.3 | 2.1 | 0.32 | 0.0 | 0.00 | 0.02 | 0.16 | 0.05 | 50 | |
| 61 | 15.23 | 15.22 | 33.225 | 24.557 | 338.9 | 0.207 | 5.79 | 101.1 | 2.1 | 0.32 | 0.0 | 0.00 | 0.00 | 0.22 | 0.12 | 61 | 215 |
| 74 | 14.24 | 14.23 | 33.188 | 24.740 | 321.7 | 0.250 | 5.82 | 99.6 | 2.5 | 0.35 | 0.2 | 0.10 | 0.00 | 0.29 | 0.27 | 74 | 214 |
| 75 ISL | 13.74 | 13.73 | 33.132 | 24.800 | 315.9 | 0.253 | 5.82 | 98.6 | 2.6 | 0.36 | 0.3 | 0.10 | 0.00 | 0.28 | 0.27 | 75 | |
| 86 | 12.44 | 12.43 | 33.028 | 24.977 | 299.1 | 0.287 | 5.84 | 96.2 | 3.5 | 0.51 | 2.0 | 0.07 | 0.00 | 0.19 | 0.26 | 86 | 213 |
| 100 | 11.56 | 11.55 | 32.921 | 25.059 | 291.5 | 0.328 | 5.80 | 93.7 | 4.6 | 0.64 | 3.9 | 0.01 | 0.01 | 0.13 | 0.19 | 100 | 212 |
| 111 | 10.89 | 10.88 | 32.883 | 25.150 | 283.0 | 0.360 | 5.77 | 91.8 | 5.7 | 0.75 | 5.7 | 0.01 | 0.02 | 0.08 | 0.11 | 111 | 211 |
| 125 | 10.87 | 10.85 | 33.013 | 25.255 | 273.4 | 0.399 | 5.60 | 89.2 | 6.6 | 0.80 | 6.8 | 0.01 | 0.02 | 0.05 | 0.06 | 126 | 210 |
| 142 | 10.39 | 10.37 | 33.280 | 25.546 | 245.9 | 0.443 | 5.13 | 81.0 | 10.3 | 1.01 | 10.9 | 0.00 | 0.03 | 0.01 | 0.02 | 143 | 209 |
| 150 ISL | 10.20 | 10.18 | 33.382 | 25.658 | 235.4 | 0.462 | 4.97 | 78.2 | 12.0 | 1.09 | 12.5 | 0.00 | 0.02 | 0.01 | 0.02 | 151 | |
| 167 | 9.60 | 9.58 | 33.529 | 25.873 | 215.2 | 0.501 | 4.69 | 72.9 | 15.5 | 1.25 | 15.3 | 0.00 | 0.00 | 0.01 | 0.01 | 168 | 208 |
| 200 | 9.02 | 9.00 | 33.830 | 26.203 | 184.4 | 0.567 | 4.18 | 64.2 | 22.5 | 1.51 | 20.0 | 0.00 | 0.00 | 0.00 | 0.01 | 201 | 207 |
| 229 | 8.58 | 8.56 | 33.947 | 26.363 | 169.6 | 0.618 | 3.56 | 54.2 | 29.3 | 1.77 | 23.8 | 0.00 | 0.00 | 0.00 | 0.00 | 230 | 206 |
| 250 ISL | 8.39 | 8.36 | 34.006 | 26.439 | 162.8 | 0.653 | 2.55 | 38.7 | 34.8 | 2.00 | 26.9 | 0.00 | 0.00 | 0.00 | 0.00 | 251 | |
| 269 | 7.99 | 7.96 | 34.013 | 26.504 | 156.7 | 0.683 | 2.45 | 36.8 | 39.5 | 2.19 | 29.4 | 0.00 | 0.00 | 0.00 | 0.00 | 270 | 205 |
| 300 ISL | 7.97 | 7.94 | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|----------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | | ml/l | pct | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.94 | 13.94 | 33.109 | 24.739 | 319.6 | 0.000 | 6.17 | 104.9 | 2.8 | 0.39 | 0.2 | 0.02 | 0.03 | 0.60 | 0.14 | 0 | | |
| 2 A | 13.94 | 13.94 | 33.109 | 24.739 | 319.7 | 0.006 | 6.17 | 104.9 | 2.8 | 0.39 | 0.2 | 0.02 | 0.03 | 0.60 | 0.14 | 2 | 220 | |
| 8 A | 13.94 | 13.94 | 33.110 | 24.740 | 319.7 | 0.026 | 6.16 | 104.8 | 2.8 | 0.38 | 0.2 | 0.02 | 0.02 | 0.63 | 0.12 | 8 | 219 | |
| 10 ISL | 13.91 | D 13.91 | 33.104 | D 24.742 | 319.6 | 0.032 | 6.19 | 105.2 | 2.9 | 0.38 | 0.2 | 0.02 | 0.02 | 0.69 | 0.14 | 10 | | |
| 18 A | 13.67 | 13.67 | 33.115 | 24.800 | 314.4 | 0.057 | 6.27 | 106.0 | 3.1 | 0.40 | 0.2 | 0.03 | 0.03 | 0.88 | 0.24 | 18 | 218 | |
| 20 ISL | 13.57 | D 13.57 | 33.108 | D 24.815 | 313.0 | 0.064 | 6.23 | 105.1 | 3.1 | 0.41 | 0.4 | 0.04 | 0.04 | 0.84 | 0.27 | 20 | | |
| 27 A | 13.39 | 13.39 | 33.114 | 24.856 | 309.2 | 0.085 | 6.07 | 102.1 | 3.1 | 0.46 | 1.1 | 0.08 | 0.07 | 0.63 | 0.33 | 27 | 217 | |
| 30 ISL | 13.32 | D 13.32 | 33.107 | D 24.865 | 308.5 | 0.095 | 6.02 | 101.1 | 3.1 | 0.47 | 1.3 | 0.11 | 0.10 | 0.54 | 0.32 | 30 | | |
| 39 A | 13.29 | 13.28 | 33.115 | 24.877 | 307.5 | 0.122 | 5.94 | 99.7 | 3.1 | 0.50 | 1.6 | 0.17 | 0.18 | 0.32 | 0.24 | 39 | 216 | |
| 50 | 13.16 | 13.15 | 33.118 | 24.906 | 305.1 | 0.156 | 5.97 | 99.9 | 3.3 | 0.53 | 2.0 | 0.18 | 0.22 | 0.29 | 0.20 | 50 | 215 | |
| 61 A | 13.08 | 13.07 | 33.129 | 24.930 | 303.1 | 0.190 | 5.88 | 98.2 | 3.6 | 0.56 | 2.4 | 0.25 | 0.25 | 0.20 | 0.16 | 61 | 214 | |
| 71 | 12.13 | 12.12 | 33.042 | 25.047 | 292.1 | 0.219 | 5.72 | 93.6 | 5.1 | 0.72 | 5.1 | 0.13 | 0.01 | 0.12 | 0.11 | 71 | 213 | |
| 75 ISL | 11.21 | D 11.20 | 32.943 | D 25.139 | 283.3 | 0.231 | 5.63 | 90.3 | 6.1 | 0.82 | 6.6 | 0.09 | 0.01 | 0.10 | 0.10 | 75 | | |
| 85 | 10.53 | 10.52 | 32.991 | 25.296 | 268.5 | 0.258 | 5.37 | 84.9 | 9.2 | 1.06 | 10.4 | 0.01 | 0.01 | 0.06 | 0.08 | 85 | 212 | |
| 100 ISL | 10.10 | D 10.09 | 33.221 | D 25.548 | 244.7 | 0.297 | 4.90 | 76.8 | 13.8 | 1.30 | 14.8 | 0.01 | 0.01 | 0.03 | 0.04 | 100 | | |
| 101 | 10.10 | 10.09 | 33.228 | 25.554 | 244.2 | 0.299 | 4.86 | 76.2 | 14.1 | 1.31 | 15.1 | 0.01 | 0.01 | 0.03 | 0.04 | 101 | 211 | |
| 120 | 10.38 | 10.37 | 33.553 | 25.760 | 225.1 | 0.344 | 3.90 | 61.7 | 18.9 | 1.60 | 19.6 | 0.01 | 0.00 | 0.02 | 0.06 | 121 | 210 | |
| 125 ISL | 10.21 | D 10.20 | 33.589 | D 25.818 | 219.8 | 0.355 | 3.79 | 59.7 | 19.7 | 1.65 | 20.3 | 0.01 | 0.00 | 0.02 | 0.06 | 126 | | |
| 139 | 9.88 | 9.86 | 33.670 | 25.937 | 208.7 | 0.385 | 3.60 | 56.3 | 22.0 | 1.75 | 22.0 | 0.00 | 0.00 | 0.01 | 0.05 | 140 | 209 | |
| 150 ISL | 9.44 | D 9.42 | 33.761 | D 26.080 | 195.2 | 0.407 | 3.44 | 53.3 | 24.8 | 1.84 | 23.5 | 0.00 | 0.00 | 0.01 | 0.04 | 151 | | |
| 169 | 8.75 | 8.73 | 33.830 | 26.244 | 179.8 | 0.443 | 3.19 | 48.7 | 29.7 | 1.96 | 25.8 | 0.00 | 0.00 | 0.00 | 0.00 | 170 | 208 | |
| 200 ISL | 8.37 | D 8.35 | 33.930 | D 26.381 | 167.2 | 0.497 | 2.95 | 44.7 | 33.6 | 2.04 | 27.4 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | | |
| 203 | 8.35 | 8.33 | 33.939 | 26.392 | 166.3 | 0.502 | 2.91 | 44.1 | 33.9 | 2.05 | 27.5 | 0.00 | 0.00 | 0.00 | 0.02 | 204 | 207 | |
| 229 | 7.99 | 7.97 | 34.013 | 26.504 | 156.0 | 0.544 | 2.21 | 33.2 | 39.3 | 2.26 | 30.2 | 0.00 | 0.00 | | | 230 | 206 | |
| 250 ISL | 7.82 | D 7.80 | 34.028 | D 26.541 | 152.8 | 0.576 | 1.93 | 28.9 | 42.5 | 2.36 | 31.2 | 0.00 | 0.00 | | | 251 | | |
| 268 | 7.77 | 7.74 | 34.075 | 26.585 | 148.9 | 0.603 | 1.79 | 26.8 | 44.9 | 2.42 | 31.8 | 0.00 | 0.00 | | | 270 | 205 | |
| 300 ISL | 7.54 | D 7.51 | 34.127 | D 26.660 | 142.3 | 0.650 | 1.47 | 21.9 | 49.8 | 2.55 | 33.3 | 0.00 | 0.00 | | | 302 | | |
| 317 | 7.28 | 7.25 | 34.114 | 26.687 | 139.8 | 0.674 | 1.33 | 19.7 | 52.6 | 2.62 | 34.1 | 0.00 | 0.00 | | | 319 | 204 | |
| 379 | 6.51 | 6.48 | 34.128 | 26.802 | 129.2 | 0.757 | 1.05 | 15.3 | 63.4 | 2.83 | 36.6 | 0.00 | 0.00 | | | 381 | 203 | |
| 400 ISL | 6.18 | D 6.14 | 34.111 | D 26.832 | 126.5 | 0.784 | 0.95 | 13.7 | 66.3 | 2.88 | 37.2 | 0.00 | 0.00 | | | 403 | | |
| 438 | 6.03 | 5.99 | 34.154 | 26.885 | 121.8 | 0.831 | 0.78 | 11.2 | 71.3 | 2.96 | 38.2 | 0.00 | 0.00 | | | 441 | 202 | |
| 500 ISL | 5.46 | D 5.42 | 34.178 | D 26.975 | 113.6 | 0.904 | 0.57 | 8.1 | 80.9 | 3.08 | 39.9 | 0.00 | 0.00 | | | 503 | | |
| 516 | 5.44 | 5.40 | 34.196 | 26.992 | 112.2 | 0.922 | 0.52 | 7.4 | 83.4 | 3.11 | 40.4 | 0.00 | 0.00 | | | 520 | 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 50.5

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|-----|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | | ml/l | pct | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.83 | 13.83 | 33.377 | 24.969 | 297.7 | 0.000 | 6.77 | 115.1 | 2.0 | 0.31 | 0.2 | 0.04 | 0.06 | 4.05 | 0.48 | 0 | | |
| 1 | 13.83 | 13.83 | 33.377 | 24.969 | 297.8 | 0.003 | 6.77 | 115.1 | 2.0 | 0.31 | 0.2 | 0.04 | 0.06 | 4.05 | 0.48 | 1 | 205 | |
| 5 | 13.66 | 13.66 | 33.375 | 25.002 | 294.7 | 0.015 | 6.73 | 114.0 | 2.2 | 0.33 | 0.3 | 0.05 | 0.08 | 3.99 | 0.47 | 5 | 204 | |
| 10 | 13.32 | 13.32 | 33.388 | 25.081 | 287.3 | 0.029 | 6.21 | 104.4 | 3.9 | 0.53 | 1.7 | 0.13 | 0.28 | 1.99 | 0.82 | 10 | 202 | |
| 10 | 13.38 | 13.38 | 33.384 | 25.066 | 288.7 | 0.029 | | | | | | | | | | 10 | 203 | |
| 16 | 13.08 | 13.08 | 33.388 | 25.129 | 282.9 | 0.047 | 5.79 | 96.9 | 5.5 | 0.66 | 3.6 | 0.21 | 0.32 | 1.62 | 0.84 | 16 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.39 | 13.39 | 33.337 | 25.027 | 292.2 | 0.000 | 6.38 | 107.4 | 5.0 | 0.46 | 1.3 | 0.08 | 0.02 | 0.93 | 0.16 | 0 | |
| 1 | 13.39 | 13.39 | 33.337 | 25.028 | 292.2 | 0.003 | 6.38 | 107.4 | 5.0 | 0.46 | 1.3 | 0.08 | 0.02 | 0.93 | 0.16 | 1 | 221 |
| 10 | 13.18 | 13.18 | 33.333 | 25.067 | 288.7 | 0.029 | 6.35 | 106.5 | 5.1 | 0.48 | 1.5 | 0.09 | 0.02 | 1.02 | 0.20 | 10 | 219 |
| 10 | 13.19 | 13.19 | 33.332 | 25.064 | 288.9 | 0.029 | | | | | | | | | | 10 | 220 |
| 20 | 13.00 | 13.00 | 33.374 | 25.135 | 282.5 | 0.058 | 6.09 | 101.7 | 6.2 | 0.57 | 2.8 | 0.13 | 0.04 | 1.36 | 0.51 | 20 | 218 |
| 30 | 12.66 | 12.66 | 33.421 | 25.238 | 272.9 | 0.085 | 5.52 | 91.6 | 8.2 | 0.77 | 5.5 | 0.23 | 0.27 | 0.71 | 0.49 | 30 | 217 |
| 40 | 12.45 | 12.44 | 33.440 | 25.293 | 267.9 | 0.112 | 5.23 | 86.4 | 9.5 | 0.89 | 7.2 | 0.27 | 0.25 | 0.61 | 0.42 | 40 | 216 |
| 50 | 11.60 | 11.59 | 33.520 | 25.516 | 246.9 | 0.138 | 4.32 | 70.1 | 14.2 | 1.27 | 13.6 | 0.23 | 0.01 | 0.25 | 0.27 | 50 | 215 |
| 60 | 11.18 | 11.17 | 33.566 | 25.628 | 236.4 | 0.162 | 3.95 | 63.6 | 16.5 | 1.44 | 16.5 | 0.10 | 0.01 | 0.17 | 0.21 | 60 | 214 |
| 70 | 10.73 | 10.72 | 33.685 | 25.801 | 220.2 | 0.185 | 3.43 | 54.7 | 20.3 | 1.64 | 19.3 | 0.12 | 0.01 | 0.11 | 0.15 | 70 | 213 |
| 75 ISL | 10.65 | D 10.64 | 33.701 | D 25.828 | 217.8 | 0.196 | 3.23 | 51.4 | 21.8 | 1.72 | 20.4 | 0.11 | 0.01 | 0.09 | 0.13 | 75 | |
| 86 | 10.23 | 10.22 | 33.801 | 25.979 | 203.6 | 0.219 | 2.92 | 46.1 | 24.3 | 1.85 | 22.3 | 0.06 | 0.00 | 0.05 | 0.11 | 86 | 212 |
| 100 | 10.06 | 10.05 | 33.845 | 26.042 | 197.9 | 0.247 | 2.76 | 43.4 | 26.0 | 1.93 | 23.3 | 0.04 | 0.01 | 0.03 | 0.09 | 101 | 211 |
| 121 | 9.79 | 9.78 | 33.913 | 26.141 | 188.9 | 0.288 | 2.47 | 38.6 | 28.8 | 2.04 | 25.0 | 0.03 | 0.00 | 0.03 | 0.09 | 122 | 210 |
| 125 ISL | 9.74 | D 9.73 | 33.916 | D 26.152 | 188.0 | 0.296 | 2.42 | 37.8 | 29.2 | 2.06 | 25.2 | 0.03 | 0.00 | 0.03 | 0.09 | 126 | |
| 141 | 9.58 | 9.56 | 33.970 | 26.221 | 181.7 | 0.325 | 2.24 | 34.9 | 30.8 | 2.13 | 26.0 | 0.01 | 0.01 | 0.02 | 0.09 | 142 | 209 |
| 150 ISL | 9.38 | D 9.36 | 34.015 | D 26.289 | 175.4 | 0.341 | 2.16 | 33.5 | 31.7 | 2.17 | 26.5 | 0.01 | 0.01 | 0.02 | 0.08 | 151 | |
| 171 | 9.26 | 9.24 | 34.054 | 26.339 | 171.0 | 0.378 | 1.99 | 30.8 | 34.0 | 2.25 | 27.6 | 0.02 | 0.01 | 0.01 | 0.07 | 172 | 208 |
| 200 | 9.01 | 8.99 | 34.113 | 26.426 | 163.3 | 0.426 | 1.74 | 26.8 | 37.3 | 2.35 | 29.1 | 0.03 | 0.00 | 0.01 | 0.06 | 201 | 207 |
| 231 | 8.75 | 8.73 | 34.142 | 26.490 | 157.8 | 0.476 | 1.58 | 24.2 | 40.2 | 2.43 | 30.0 | 0.01 | 0.00 | | | 232 | 206 |
| 250 ISL | 8.61 | D 8.58 | 34.150 | D 26.518 | 155.4 | 0.506 | 1.52 | 23.2 | 41.6 | 2.47 | 30.5 | 0.00 | 0.00 | | | 252 | |
| 272 | 8.40 | 8.37 | 34.151 | 26.552 | 152.5 | 0.539 | 1.45 | 22.0 | 43.3 | 2.51 | 31.1 | 0.00 | 0.00 | | | 274 | 205 |
| 300 ISL | 8.23 | D 8.20 | 34.182 | D 26.602 | 148.2 | 0.582 | 1.26 | 19.1 | 46.3 | 2.60 | 32.0 | 0.00 | 0.00 | | | 302 | |
| 321 | 8.11 | 8.08 | 34.201 | 26.635 | 145.4 | 0.612 | 1.11 | 16.7 | 48.8 | 2.67 | 32.7 | 0.00 | 0.00 | | | 323 | 204 |
| 380 | 7.53 | 7.49 | 34.213 | 26.730 | 137.0 | 0.696 | 0.90 | 13.4 | 55.8 | 2.82 | 34.2 | 0.00 | 0.00 | | | 383 | 203 |
| 400 ISL | 7.26 | D 7.22 | 34.225 | D 26.778 | 132.6 | 0.723 | 0.77 | 11.4 | 60.4 | 2.90 | 34.8 | 0.00 | 0.00 | | | 403 | |
| 440 | 6.77 | 6.73 | 34.243 | 26.860 | 125.1 | 0.774 | 0.51 | 7.5 | 70.1 | 3.06 | 36.2 | 0.00 | 0.00 | | | 443 | 202 |
| 500 ISL | 6.16 | D 6.12 | 34.280 | D 26.969 | 115.0 | 0.846 | 0.36 | 5.2 | 79.5 | 3.17 | 38.3 | 0.01 | 0.00 | | | 504 | |
| 519 | 5.99 | 5.94 | 34.293 | 27.001 | 112.0 | 0.868 | 0.31 | 4.5 | 82.5 | 3.20 | 39.0 | 0.01 | 0.00 | | | 523 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|--------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.49 | 13.49 | 33.403 | 25.058 | 289.2 | 0.000 | 6.63 | 111.9 | 4.9 | 0.47 | 1.2 | 0.06 | 0.31 | 0.78 | 0.12 | 0 | |
| 1 | 13.49 | 13.49 | 33.403 | 25.058 | 289.2 | 0.003 | 6.63 | 111.9 | 4.9 | 0.47 | 1.2 | 0.06 | 0.31 | 0.78 | 0.12 | 1 | 221 |
| 10 | 13.14 | 13.14 | 33.407 | 25.132 | 282.5 | 0.029 | 6.75 | 113.1 | 4.4 | 0.46 | 1.2 | 0.07 | 0.21 | 1.13 | 0.27 | 10 | 220 |
| 15 | 12.68 | 12.68 | 33.412 | 25.227 | 273.6 | 0.043 | 6.58 | 109.2 | 4.4 | 0.53 | 2.3 | 0.12 | 0.23 | 1.66 | 0.56 | 15 | 219 |
| 20 | 12.50 | 12.50 | 33.411 | 25.261 | 270.5 | 0.056 | 5.96 | 98.5 | 7.2 | 0.72 | 5.0 | 0.23 | 0.21 | 1.45 | 0.56 | 20 | 218 |
| 30 | 12.31 | 12.31 | 33.428 | 25.311 | 266.0 | 0.083 | 5.71 | 94.0 | 8.1 | 0.83 | 6.5 | 0.35 | 0.28 | 1.34 | 0.64 | 30 | 217 |
| 40 | 12.14 | 12.13 | 33.440 | 25.353 | 262.2 | 0.109 | 5.48 | 89.9 | 9.1 | 0.92 | 7.8 | 0.43 | 0.27 | 1.28 | 0.43 | 40 | 216 |
| 50 | 11.66 | 11.65 | 33.457 | 25.456 | 252.6 | 0.135 | 4.89 | 79.4 | 12.0 | 1.13 | 11.8 | 0.36 | 0.00 | 0.38 | 0.39 | 50 | 215 |
| 61 | 10.68 | 10.67 | 33.552 | 25.706 | 229.0 | 0.162 | 3.91 | 62.2 | 18.1 | 1.55 | 18.8 | 0.02 | 0.00 | 0.13 | 0.19 | 61 | 214 |
| 70 | 10.41 | 10.40 | 33.622 | 25.808 | 219.5 | 0.182 | 3.61 | 57.1 | 20.3 | 1.66 | 20.5 | 0.01 | 0.00 | 0.09 | 0.15 | 70 | 213 |
| 75 ISL | 10.29 | D 10.28 | 33.629 | D 25.834 | 217.1 | 0.193 | 3.49 | 55.1 | 21.6 | 1.73 | 21.6 | 0.01 | 0.00 | 0.07 | 0.15 | 75 | |
| 85 | 9.80 | 9.79 | 33.704 | 25.975 | 203.8 | 0.214 | 3.31 | 51.7 | 23.9 | 1.85 | 23.5 | 0.01 | 0.00 | 0.03 | 0.14 | 85 | 212 |
| 100 ISL | 9.59 | D 9.58 | 33.794 | D 26.081 | 194.1 | 0.244 | 3.04 | 47.3 | 26.1 | 1.94 | 24.8 | 0.01 | 0.00 | 0.02 | 0.10 | 101 | |
| 101 | 9.60 | 9.59 | 33.792 | 26.078 | 194.5 | 0.246 | 3.02 | 47.0 | 26.2 | 1.94 | 24.8 | 0.01 | 0.00 | 0.02 | 0.10 | 102 | 211 |
| 119 | 9.33 | 9.32 | 33.894 | 26.202 | 183.0 | 0.279 | 2.70 | 41.8 | 29.1 | 2.02 | 26.0 | 0.00 | 0.00 | 0.03 | 0.09 | 120 | 210 |
| 125 ISL | 9.26 | D 9.25 | 33.908 | D 26.224 | 181.0 | 0.290 | 2.63 | 40.7 | 29.8 | 2.04 | 26.2 | 0.00 | 0.00 | 0.03 | 0.09 | 126 | |
| 140 | 9.13 | 9.11 | 33.964 | 26.289 | 175.1 | 0.317 | 2.49 | 38.4 | 31.4 | 2.08 | 26.8 | 0.00 | 0.00 | 0.01 | 0.08 | 141 | 209 |
| 150 ISL | 8.84 | D 8.82 | 33.961 | D 26.333 | 171.1 | 0.334 | 2.63 | D 40.3 | 32.6 | 2.11 | 27.3 | 0.00 | 0.00 | 0.00 | 0.07 | 151 | |
| 167 | 8.67 | 8.65 | 34.009 | 26.397 | 165.3 | 0.363 | 2.35 | 35.9 | 34.8 | 2.15 | 28.2 | 0.00 | 0.00 | 0.00 | 0.06 | 168 | 208 |
| 200 | 8.35 | 8.33 | 34.054 | 26.482 | 157.7 | 0.416 | 2.10 | 31.8 | 38.6 | 2.26 | 29.9 | 0.00 | 0.00 | 0.00 | 0.06 | 201 | 207 |
| 229 | 8.00 | 7.98 | 34.068 | 26.546 | 152.1 | 0.461 | 1.86 | 28.0 | 42.8 | 2.37 | 31.3 | 0.00 | 0.00 | | | 230 | 206 |
| 250 ISL | 7.83 | D 7.81 | 34.100 | D 26.596 | 147.6 | 0.493 | 1.64 | 24.6 | 45.9 | 2.48 | 32.4 | 0.00 | 0.00 | | | 252 | |
| 268 | 7.66 | 7.63 | 34.118 | 26.635 | 144.1 | 0.519 | 1.44 | 21.5 | 48.6 | 2.57 | 33.3 | 0.00 | 0.00 | | | 270 | 205 |
| 300 ISL | 7.45 | D 7.42 | 34.157 | D 26.696 | 138.8 | 0.564 | 1.14 | 16.9 | 53.5 | 2.69 | 34.4 | 0.00 | 0.00 | | | 302 | |
| 318 | 7.29 | 7.26 | 34.176 | 26.734 | 135.4 | 0.589 | 1.00 | 14.8 | 56.3 | 2.75 | 35.0 | 0.00 | 0.00 | | | 320 | 204 |
| 377 | 6.71 | 6.68 | 34.215 | 26.845 | 125.4 | 0.666 | 0.71 | 10.4 | 65.7 | 2.93 | 37.0 | 0.00 | 0.00 | | | 379 | 203 |
| 400 ISL | 6.54 | D 6.50 | 34.227 | D 26.877 | 122.6 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|------|---------|
| 33 48.7 N | 121 51.9 W | 20/01/09 | 1724 | UTC | 3666 m | 010 | 04 kn | 290 06 10 | 1 | 1019.3 mb | 14.2 C | 13.0 C | 15m | 3/8 | CS | |
| 0 ISL | 13.09 | 13.09 | 33.105 | 24.908 | 303.5 | 0.000 | 6.24 | 104.3 | 4.5 | 0.52 | 2.2 | 0.07 | 0.05 | 0.63 | 0.17 | 0 |
| 2 A | 13.09 | 13.09 | 33.105 | 24.908 | 303.6 | 0.006 | 6.24 | 104.3 | 4.5 | 0.52 | 2.2 | 0.07 | 0.05 | 0.63 | 0.17 | 2 220 |
| 9 A | 12.88 | 12.88 | 33.095 | 24.942 | 300.6 | 0.027 | 6.25 | 104.0 | 4.6 | 0.53 | 2.5 | 0.07 | 0.05 | 0.72 | 0.17 | 9 219 |
| 10 ISL | 12.63 D | 12.63 | 33.094 D | 24.990 | 296.0 | 0.030 | 6.23 | 103.1 | 4.7 | 0.55 | 2.7 | 0.07 | 0.05 | 0.74 | 0.18 | 10 |
| 19 A | 11.84 | 11.84 | 33.053 | 25.108 | 285.0 | 0.056 | 6.04 | 98.3 | 5.7 | 0.70 | 4.8 | 0.13 | 0.03 | 0.83 | 0.24 | 19 218 |
| 20 ISL | 11.89 D | 11.89 | 33.079 D | 25.119 | 284.0 | 0.059 | 6.03 | 98.2 | 5.8 | 0.71 | 5.0 | 0.15 | 0.03 | 0.80 | 0.24 | 20 |
| 30 ISL | 11.89 D | 11.89 | 33.179 D | 25.197 | 276.8 | 0.087 | 5.93 | 96.6 | 6.5 | 0.77 | 6.0 | 0.31 | 0.03 | 0.48 | 0.27 | 30 |
| 31 A | 11.88 | 11.88 | 33.185 | 25.203 | 276.2 | 0.090 | 5.93 | 96.6 | 6.5 | 0.77 | 6.1 | 0.32 | 0.03 | 0.44 | 0.27 | 31 217 |
| 41 A | 11.89 | 11.88 | 33.225 | 25.233 | 273.6 | 0.117 | 5.92 | 96.5 | 6.9 | 0.79 | 6.3 | 0.34 | 0.06 | 0.35 | 0.25 | 41 216 |
| 50 ISL | 12.21 D | 12.20 | 33.337 D | 25.260 | 271.3 | 0.142 | 5.91 | 97.1 | 7.1 | 0.79 | 6.3 | 0.36 | 0.18 | 0.28 | 0.22 | 50 |
| 54 | 12.11 | 12.10 | 33.323 | 25.268 | 270.6 | 0.153 | 5.91 | 96.9 | 7.2 | 0.79 | 6.3 | 0.36 | 0.21 | 0.25 | 0.21 | 54 215 |
| 65 A | 11.58 | 11.57 | 33.254 | 25.313 | 266.5 | 0.182 | 5.72 | 92.6 | 8.1 | 0.89 | 8.1 | 0.33 | 0.02 | 0.16 | 0.18 | 65 214 |
| 75 | 10.73 | 10.72 | 33.212 | 25.433 | 255.3 | 0.208 | 5.29 | 84.1 | 10.8 | 1.10 | 11.6 | 0.07 | 0.00 | 0.10 | 0.13 | 75 213 |
| 85 | 9.86 | 9.85 | 33.285 | 25.638 | 235.8 | 0.233 | 4.70 | 73.3 | 15.4 | 1.39 | 16.4 | 0.01 | 0.00 | 0.03 | 0.08 | 85 212 |
| 100 | 9.60 | 9.59 | 33.505 | 25.853 | 215.7 | 0.267 | 4.14 | 64.3 | 20.0 | 1.60 | 20.2 | 0.00 | 0.00 | 0.01 | 0.05 | 101 211 |
| 119 | 9.41 | 9.40 | 33.751 | 26.077 | 194.9 | 0.306 | 3.32 | 51.4 | 25.3 | 1.86 | 24.1 | 0.00 | 0.00 | 0.04 | 0.20 | 120 210 |
| 125 ISL | 9.36 D | 9.35 | 33.769 D | 26.099 | 192.9 | 0.318 | 3.21 | 49.7 | 26.3 | 1.90 | 24.7 | 0.00 | 0.00 | 0.00 | 0.04 | 126 |
| 138 | 9.13 | 9.12 | 33.839 | 26.191 | 184.3 | 0.342 | 3.06 | 47.1 | 28.1 | 1.96 | 25.6 | 0.00 | 0.00 | 0.03 | 0.03 | 139 209 |
| 150 ISL | 8.89 D | 8.87 | 33.901 D | 26.278 | 176.3 | 0.364 | 2.92 | 44.8 | 29.9 | 1.99 | 26.3 | 0.00 | 0.00 | 0.03 | 0.03 | 151 |
| 168 | 8.65 | 8.63 | 33.952 | 26.355 | 169.2 | 0.395 | 2.69 | 41.0 | 32.6 | 2.05 | 27.3 | 0.00 | 0.00 | 0.04 | 0.04 | 169 208 |
| 200 | 8.50 | 8.48 | 34.047 | 26.453 | 160.5 | 0.448 | 2.04 | 31.0 | 37.2 | 2.28 | 29.6 | 0.00 | 0.00 | 0.05 | 0.05 | 201 207 |
| 227 | 8.18 | 8.16 | 34.079 | 26.527 | 153.9 | 0.490 | 1.80 | 27.2 | 41.5 | 2.37 | 31.0 | 0.00 | 0.00 | 0.00 | 0.00 | 228 206 |
| 250 ISL | 8.03 D | 8.00 | 34.122 D | 26.584 | 148.8 | 0.525 | 1.48 | 22.3 | 45.3 | 2.51 | 32.3 | 0.00 | 0.00 | 0.00 | 0.00 | 251 |
| 268 | 7.89 | 7.86 | 34.142 | 26.620 | 145.6 | 0.551 | 1.26 | 18.9 | 48.1 | 2.61 | 33.2 | 0.00 | 0.00 | 0.00 | 0.00 | 270 205 |
| 300 ISL | 7.40 D | 7.37 | 34.117 D | 26.672 | 141.0 | 0.597 | 1.20 | 17.8 | 52.0 | 2.67 | 34.2 | 0.00 | 0.00 | 0.00 | 0.00 | 302 |
| 317 | 7.31 | 7.28 | 34.136 | 26.700 | 138.6 | 0.621 | 1.17 | 17.3 | 53.9 | 2.69 | 34.6 | 0.00 | 0.00 | 0.00 | 0.00 | 319 204 |
| 377 | 6.76 | 6.73 | 34.163 | 26.797 | 130.0 | 0.701 | 0.91 | 13.3 | 62.3 | 2.85 | 36.4 | 0.00 | 0.00 | 0.00 | 0.00 | 379 203 |
| 400 ISL | 6.50 D | 6.46 | 34.174 D | 26.840 | 126.0 | 0.731 | 0.79 | 11.5 | 65.8 | 2.92 | 37.1 | 0.00 | 0.00 | 0.00 | 0.00 | 403 |
| 437 | 6.19 | 6.15 | 34.196 | 26.898 | 120.7 | 0.777 | 0.61 | 8.8 | 71.6 | 3.01 | 38.3 | 0.00 | 0.00 | 0.00 | 0.00 | 440 202 |
| 500 ISL | 5.56 D | 5.52 | 34.208 D | 26.986 | 112.6 | 0.850 | 0.48 | 6.8 | 81.1 | 3.10 | 40.1 | 0.00 | 0.00 | 0.00 | 0.00 | 503 |
| 517 | 5.48 | 5.44 | 34.215 | 27.002 | 111.3 | 0.869 | 0.44 | 6.2 | 83.7 | 3.12 | 40.6 | 0.00 | 0.00 | 0.00 | 0.00 | 521 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|------|---------|
| 33 29.2 N | 122 32.0 W | 20/01/09 | 2214 | UTC | 4000 m | 360 | 05 kn | 290 06 11 | 1 | 1016.0 mb | 14.9 C | 12.9 C | 13m | 6/8 | CS | |
| 0 ISL | 14.15 | 14.15 | 32.989 | 24.603 | 332.6 | 0.000 | 6.12 | 104.5 | 2.8 | 0.40 | 0.4 | 0.03 | 0.04 | 0.57 | 0.09 | 0 |
| 2 | 14.15 | 14.15 | 32.989 | 24.603 | 332.6 | 0.007 | 6.12 | 104.5 | 2.8 | 0.40 | 0.4 | 0.03 | 0.04 | 0.57 | 0.09 | 2 220 |
| 10 | 13.21 | 13.21 | 32.903 | 24.728 | 320.9 | 0.033 | 6.27 | 104.9 | 3.3 | 0.45 | 1.2 | 0.06 | 0.03 | 0.61 | 0.12 | 10 219 |
| 20 | 12.70 | 12.70 | 32.901 | 24.827 | 311.8 | 0.064 | 6.03 | 99.8 | 3.8 | 0.57 | 2.7 | 0.21 | 0.04 | 0.41 | 0.19 | 20 218 |
| 30 | 11.79 | 11.79 | 32.891 | 24.992 | 296.3 | 0.095 | 5.84 | 94.8 | 5.0 | 0.73 | 5.1 | 0.07 | 0.03 | 0.19 | 0.20 | 30 217 |
| 40 | 10.90 | 10.90 | 32.870 | 25.136 | 282.7 | 0.124 | 5.75 | 91.6 | 6.4 | 0.86 | 7.1 | 0.03 | 0.03 | 0.15 | 0.12 | 40 216 |
| 50 | 11.38 | 11.37 | 33.113 | 25.240 | 273.1 | 0.152 | 5.85 | 94.3 | 7.4 | 0.87 | 7.6 | 0.22 | 0.04 | 0.26 | 0.14 | 50 215 |
| 59 | 11.72 | 11.71 | 33.267 | 25.297 | 267.9 | 0.176 | 5.91 | 96.0 | 7.6 | 0.85 | 7.2 | 0.33 | 0.17 | 0.22 | 0.14 | 59 214 |
| 69 | 10.90 | 10.89 | 33.241 | 25.426 | 255.9 | 0.202 | 5.38 | 85.9 | 10.7 | 1.09 | 11.3 | 0.15 | 0.02 | 0.11 | 0.11 | 69 213 |
| 75 ISL | 10.47 D | 10.46 | 33.249 D | 25.507 | 248.2 | 0.217 | 5.07 | 80.2 | 12.6 | 1.22 | 13.5 | 0.08 | 0.02 | 0.07 | 0.10 | 75 |
| 84 | 10.18 | 10.17 | 33.332 | 25.621 | 237.5 | 0.239 | 4.64 | 72.9 | 15.4 | 1.41 | 16.6 | 0.01 | 0.02 | 0.04 | 0.09 | 212 |
| 100 ISL | 9.70 D | 9.69 | 33.585 D | 25.899 | 211.4 | 0.275 | 4.00 | 62.3 | 20.7 | 1.69 | 21.3 | 0.00 | 0.01 | 0.01 | 0.04 | 100 |
| 101 | 9.69 | 9.68 | 33.596 | 25.910 | 210.4 | 0.277 | 3.97 | 61.8 | 21.0 | 1.70 | 21.5 | 0.00 | 0.01 | 0.01 | 0.04 | 101 211 |
| 119 | 9.25 | 9.24 | 33.733 | 26.089 | 193.7 | 0.313 | 3.56 | 55.0 | 24.7 | 1.82 | 23.6 | 0.01 | 0.02 | 0.00 | 0.03 | 120 210 |
| 125 ISL | 9.05 D | 9.04 | 33.777 D | 26.155 | 187.5 | 0.325 | 3.56 | 54.7 | 25.3 | 1.81 | 23.6 | 0.01 | 0.02 | 0.00 | 0.02 | 126 |
| 140 | 8.81 | 8.80 | 33.875 | 26.270 | 176.8 | 0.352 | 3.56 | 54.5 | 26.7 | 1.77 | 23.5 | 0.00 | 0.00 | 0.01 | 0.01 | 141 209 |
| 150 ISL | 8.64 D | 8.62 | 33.922 D | 26.333 | 171.0 | 0.370 | 3.35 | 51.1 | 28.7 | 1.84 | 24.6 | 0.00 | 0.00 | 0.00 | 0.01 | 151 |
| 170 | 8.37 | 8.37 | 33.958 | 26.400 | 164.9 | 0.403 | 2.97 | 45.0 | 32.6 | 2.00 | 26.8 | 0.00 | 0.00 | 0.00 | 0.02 | 171 208 |
| 200 ISL | 7.93 D | 7.91 | 33.965 D | 26.474 | 158.2 | 0.452 | 3.35 | 50.3 | 34.4 | 1.91 | 26.0 | 0.00 | 0.00 | 0.00 | 0.01 | 201 207 |
| 201 | 7.93 | 7.91 | 33.972 | 26.480 | 157.7 | 0.453 | 3.37 | 50.6 | 34.5 | 1.91 | 26.0 | 0.00 | 0.00 | 0.00 | 0.01 | 202 207 |
| 230 | 7.48 | 7.46 | 33.982 | 26.553 | 151.1 | 0.498 | 3.13 | 46.5 | 39.5 | 2.03 | 27.8 | 0.00 | 0.00 | 0.00 | 0.00 | 231 206 |
| 250 ISL | 7.34 D | 7.32 | 33.992 D | 26.581 | 148.7 | 0.528 | 2.47 | 36.6 | 43.6 | 2.26 | 30.5 | 0.00 | 0.00 | 0.00 | 0.00 | 251 |
| 269 | 7.44 | 7.41 | 34.058 | 26.619 | 145.5 | 0.556 | 1.79 | 26.6 | 47.5 | 2.48 | 33.1 | 0.00 | 0.00 | 0.00 | 0.00 | 271 205 |
| 300 ISL | 7.45 D | 7.42 | 34.123 D | 26.669 | 141.3 | 0.600 | 1.34 | 19.9 | 52.4 | 2.64 | 34.6 | 0.00 | 0.00 | 0.00 | 0.00 | 302 |
| 318 | 7.13 | 7.10 | 34.129 | 26.719 | 136.7 | 0.625 | 1.21 | 17.8 | 55.0 | 2.70 | 35.0 | 0.00 | 0.00 | 0.00 | 0.00 | 320 204 |
| 379 | 6.81 | 6.77 | 34.212 | 26.829 | 127.0 | 0.706 | 0.70 | 10.2 | 63.7 | 2.93 | 36.6 | 0.00 | 0.00 | 0.00 | 0.00 | 381 203 |
| 400 ISL | 6.69 D | 6.65 | 34.219 D | 26.851 | 125.2 | 0.732 | 0.64 | 9.3 | 65.6 | 2.97 | 37 | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|------------|----------|--------|--------|-------|-------|--------|-------|-----------|------|------|--------|------|-------|--------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 33 | 8.9 N | 123 13.7 W | 21/01/09 | 0418 | UTC | 4221 | m | 040 | 03 kn | | | | | | | | |
| 0 | ISL | 14.90 | 14.90 | 33.100 | 24.530 | 339.5 | 0.000 | 5.94 | 103.0 | 2.3 | 0.36 | 0.0 | 0.00 | 0.02 | 0.29 | 0.07 | 0 |
| 2 | | 14.90 | 14.90 | 33.100 | 24.530 | 339.6 | 0.007 | 5.94 | 103.0 | 2.3 | 0.36 | 0.0 | 0.00 | 0.02 | 0.29 | 0.07 | 2 220 |
| 10 | ISL | 14.60 D | 14.60 | 33.051 | 24.557 | 337.3 | 0.034 | 5.99 | 103.2 | 2.4 | 0.36 | 0.0 | 0.00 | 0.02 | 0.39 | 0.05 | 10 |
| 11 | | 14.60 | 14.60 | 33.060 | 24.563 | 336.7 | 0.037 | 6.00 | 103.4 | 2.4 | 0.36 | 0.0 | 0.00 | 0.02 | 0.41 | 0.05 | 11 219 |
| 20 | ISL | 14.58 D | 14.58 | 33.054 | 24.563 | 336.9 | 0.068 | 5.99 | 103.2 | 2.4 | 0.36 | 0.0 | 0.00 | 0.02 | 0.43 | 0.05 | 20 |
| 21 | | 14.58 | 14.58 | 33.068 | 24.574 | 335.9 | 0.071 | 5.99 | 103.2 | 2.4 | 0.36 | 0.0 | 0.00 | 0.02 | 0.43 | 0.05 | 21 218 |
| 30 | | 14.56 | 14.56 | 33.074 | 24.583 | 335.3 | 0.101 | 6.00 | 103.3 | 2.3 | 0.36 | 0.0 | 0.00 | 0.02 | 0.50 | 0.13 | 30 217 |
| 41 | | 14.34 | 14.33 | 33.057 | 24.617 | 332.4 | 0.138 | 5.97 | 102.3 | 2.4 | 0.40 | 0.3 | 0.02 | 0.04 | 0.51 | 0.21 | 41 216 |
| 50 | | 14.17 | 14.16 | 33.036 | 24.637 | 330.8 | 0.168 | 5.92 | 101.1 | 2.5 | 0.42 | 0.6 | 0.06 | 0.08 | 0.41 | 0.18 | 50 215 |
| 61 | | 13.10 | 13.09 | 33.011 | 24.835 | 312.1 | 0.203 | 5.98 | 99.9 | 3.7 | 0.54 | 2.3 | 0.14 | 0.26 | 0.30 | 0.11 | 61 214 |
| 71 | | 12.94 | 12.93 | 33.023 | 24.876 | 308.5 | 0.234 | 5.92 | 98.5 | 3.9 | 0.56 | 2.7 | 0.16 | 0.25 | 0.27 | 0.15 | 71 213 |
| 75 | ISL | 12.63 D | 12.62 | 32.986 | 24.908 | 305.5 | 0.246 | 5.89 | 97.4 | 4.0 | 0.57 | 2.8 | 0.13 | 0.19 | 0.24 | 0.15 | 75 |
| 86 | | 11.64 | 11.63 | 32.930 | 25.051 | 292.0 | 0.279 | 5.81 | 94.0 | 4.3 | 0.64 | 3.7 | 0.03 | 0.01 | 0.16 | 0.14 | 86 212 |
| 100 | ISL | 10.65 D | 10.64 | 32.907 | 25.210 | 277.0 | 0.319 | 5.67 | 89.8 | 6.7 | 0.83 | 6.9 | 0.01 | 0.02 | 0.09 | 0.07 | 100 |
| 101 | | 10.64 | 10.63 | 32.912 | 25.215 | 276.5 | 0.322 | 5.66 | 89.6 | 6.9 | 0.85 | 7.2 | 0.01 | 0.02 | 0.09 | 0.07 | 101 211 |
| 121 | | 10.27 | 10.26 | 33.174 | 25.484 | 251.4 | 0.375 | 5.10 | 80.2 | 12.0 | 1.17 | 12.9 | 0.01 | 0.01 | 0.04 | 0.05 | 122 210 |
| 125 | ISL | 10.06 D | 10.05 | 33.273 | 25.596 | 240.7 | 0.384 | 4.94 | 77.4 | 13.4 | 1.25 | 14.2 | 0.01 | 0.01 | 0.03 | 0.05 | 126 |
| 141 | | 9.76 | 9.74 | 33.492 | 25.818 | 220.0 | 0.421 | 4.25 | 66.2 | 19.1 | 1.55 | 19.2 | 0.00 | 0.00 | 0.02 | 0.04 | 142 209 |
| 150 | ISL | 9.56 D | 9.54 | 33.633 | 25.961 | 206.5 | 0.440 | 3.91 | 60.7 | 21.7 | 1.67 | 21.2 | 0.00 | 0.00 | 0.01 | 0.04 | 151 |
| 171 | | 9.22 | 9.20 | 33.784 | 26.134 | 190.4 | 0.482 | 3.27 | 50.5 | 26.5 | 1.88 | 24.6 | 0.00 | 0.00 | 0.00 | 0.03 | 172 208 |
| 200 | ISL | 8.88 D | 8.86 | 33.922 | 26.297 | 175.5 | 0.535 | 2.75 | 42.1 | 30.9 | 2.03 | 26.9 | 0.00 | 0.01 | 0.00 | 0.03 | 201 |
| 201 | | 8.89 | 8.87 | 33.924 | 26.297 | 175.5 | 0.537 | 2.74 | 42.0 | 31.0 | 2.03 | 26.9 | 0.00 | 0.01 | 0.00 | 0.03 | 202 207 |
| 230 | | 8.43 | 8.41 | 33.976 | 26.409 | 165.2 | 0.586 | 2.74 | 41.6 | 34.0 | 2.04 | 27.7 | 0.00 | 0.00 | | | 231 206 |
| 250 | ISL | 8.15 D | 8.12 | 34.021 | 26.487 | 158.1 | 0.619 | 2.33 | 35.1 | 38.1 | 2.19 | 29.3 | 0.00 | 0.00 | | | 251 |
| 270 | | 8.04 | 8.01 | 34.073 | 26.544 | 153.0 | 0.650 | 1.87 | 28.1 | 42.6 | 2.36 | 31.1 | 0.00 | 0.00 | | | 272 205 |
| 300 | ISL | 7.58 D | 7.55 | 34.060 | 26.601 | 147.8 | 0.695 | 1.67 | 24.9 | 46.9 | 2.47 | 32.5 | 0.00 | 0.00 | | | 302 |
| 320 | | 7.41 | 7.38 | 34.079 | 26.641 | 144.3 | 0.724 | 1.63 | 24.2 | 49.7 | 2.52 | 33.2 | 0.00 | 0.00 | | | 322 204 |
| 382 | | 6.40 | 6.37 | 34.075 | 26.775 | 131.8 | 0.810 | 1.32 | 19.1 | 62.5 | 2.74 | 36.5 | 0.00 | 0.00 | | | 384 203 |
| 400 | ISL | 6.32 D | 6.28 | 34.100 | 26.805 | 129.1 | 0.833 | 1.16 | 16.8 | 65.3 | 2.81 | 37.2 | 0.00 | 0.00 | | | 403 |
| 442 | | 6.07 | 6.03 | 34.142 | 26.871 | 123.3 | 0.886 | 0.80 | 11.5 | 71.2 | 2.96 | 38.4 | 0.00 | 0.00 | | | 445 202 |
| 500 | ISL | 5.68 D | 5.64 | 34.177 | 26.948 | 116.4 | 0.956 | 0.61 | 8.7 | 79.0 | 3.06 | 39.9 | 0.00 | 0.00 | | | 503 |
| 514 | | 5.56 | 5.52 | 34.174 | 26.960 | 115.3 | 0.972 | 0.56 | 8.0 | 80.9 | 3.09 | 40.2 | 0.00 | 0.00 | | | 517 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|------------|----------|--------|--------|-------|-------|--------|-------|-----------|------|------|--------|------|-------|--------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 32 | 49.0 N | 123 54.4 W | 21/01/09 | 1018 | UTC | 4439 | m | 070 | 08 kn | | | | | | | | |
| 0 | ISL | 14.41 | 14.41 | 33.176 | 24.693 | 324.0 | 0.000 | 6.04 | 103.8 | 2.5 | 0.37 | 0.1 | 0.00 | 0.02 | 0.44 | 0.12 | 0 |
| 2 | | 14.41 | 14.41 | 33.176 | 24.693 | 324.1 | 0.006 | 6.04 | 103.8 | 2.5 | 0.37 | 0.1 | 0.00 | 0.02 | 0.44 | 0.12 | 2 220 |
| 10 | | 14.17 | 14.17 | 33.261 | 24.809 | 313.2 | 0.032 | 6.01 | 102.8 | 2.5 | 0.38 | 0.1 | 0.02 | 0.02 | 0.86 | 0.20 | 10 219 |
| 20 | | 13.76 | 13.76 | 33.224 | 24.866 | 308.1 | 0.063 | 6.23 | 105.6 | 2.9 | 0.39 | 0.2 | 0.02 | 0.05 | 1.04 | 0.32 | 20 218 |
| 30 | | 13.62 | 13.62 | 33.212 | 24.885 | 306.5 | 0.094 | 6.26 | 105.8 | 3.1 | 0.40 | 0.2 | 0.03 | 0.12 | 0.93 | 0.31 | 30 217 |
| 40 | | 13.38 | 13.37 | 33.201 | 24.925 | 303.0 | 0.124 | 6.06 | 101.9 | 3.3 | 0.46 | 1.1 | 0.08 | 0.14 | 0.69 | 0.32 | 40 216 |
| 50 | | 13.39 | 13.38 | 33.214 | 24.934 | 302.4 | 0.155 | 6.01 | 101.1 | 3.2 | 0.47 | 1.3 | 0.10 | 0.21 | 0.59 | 0.28 | 50 215 |
| 60 | | 13.29 | 13.28 | 33.209 | 24.950 | 301.1 | 0.185 | 5.98 | 100.4 | 3.4 | 0.50 | 1.6 | 0.12 | 0.29 | 0.40 | 0.23 | 60 214 |
| 70 | | 13.19 | 13.18 | 33.214 | 24.974 | 299.1 | 0.215 | 5.89 | 98.7 | 3.8 | 0.54 | 2.1 | 0.17 | 0.34 | 0.28 | 0.19 | 70 213 |
| 75 | ISL | 13.09 D | 13.08 | 33.219 | 24.998 | 297.0 | 0.230 | 5.80 | 97.0 | 4.4 | 0.61 | 3.2 | 0.15 | 0.23 | 0.21 | 0.15 | 75 |
| 84 | | 11.71 | 11.70 | 33.038 | 25.122 | 285.2 | 0.256 | 5.59 | 90.7 | 6.1 | 0.78 | 6.1 | 0.09 | 0.01 | 0.10 | 0.09 | 84 212 |
| 100 | ISL | 10.54 D | 10.53 | 33.222 | 25.474 | 251.9 | 0.299 | 5.05 | 79.9 | 11.1 | 1.14 | 12.3 | 0.01 | 0.01 | 0.04 | 0.05 | 100 |
| 101 | | 10.55 | 10.54 | 33.185 | 25.444 | 254.8 | 0.301 | 5.01 | 79.3 | 11.5 | 1.16 | 12.7 | 0.01 | 0.01 | 0.04 | 0.05 | 101 211 |
| 119 | | 10.03 | 10.02 | 33.519 | 25.793 | 221.9 | 0.344 | 4.23 | 66.3 | 18.1 | 1.50 | 18.5 | 0.01 | 0.01 | 0.01 | 0.03 | 120 210 |
| 125 | ISL | 9.89 D | 9.88 | 33.633 | 25.906 | 211.3 | 0.357 | 3.84 | 60.1 | 20.5 | 1.63 | 20.3 | 0.01 | 0.01 | 0.01 | 0.03 | 126 |
| 139 | | 9.71 | 9.69 | 33.808 | 26.073 | 195.8 | 0.386 | 3.02 | 47.1 | 25.5 | 1.88 | 23.9 | 0.00 | 0.00 | 0.00 | 0.04 | 140 209 |
| 150 | ISL | 9.39 D | 9.37 | 33.874 | 26.177 | 186.0 | 0.407 | 2.90 | 44.9 | 28.0 | 1.93 | 25.3 | 0.00 | 0.00 | 0.00 | 0.04 | 151 |
| 169 | | 8.93 | 8.91 | 33.938 | 26.301 | 174.5 | 0.441 | 2.69 | 41.3 | 30.8 | 2.03 | 26.4 | 0.00 | 0.00 | 0.03 | 0.03 | 170 208 |
| 200 | ISL | 8.59 D | 8.57 | 33.977 | 26.385 | 167.0 | 0.494 | 2.58 | 39.3 | 33.6 | 2.07 | 27.5 | 0.00 | 0.00 | 0.02 | 0.02 | 201 207 |
| 201 | | 8.59 | 8.57 | 33.983 | 26.390 | 166.6 | 0.496 | 2.58 | 39.3 | 33.7 | 2.07 | 27.5 | 0.00 | 0.00 | 0.00 | 0.02 | 202 207 |
| 229 | | 8.57 | 8.55 | 34.074 | 26.464 | 160.0 | 0.541 | 1.87 | 28.5 | 38.5 | 2.31 | 29.9 | 0.00 | 0.00 | | | 230 206 |
| 250 | ISL | 8.32 D | 8.29 | 34.088 | 26.514 | 155.6 | 0.574 | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 81.7 43.5

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|-------|--------|------|------|
| 34 24.2 N | 119 48.5 W | 19/01/09 | 1939 | UTC | 20 m | 230 | 03 kn | 180 01 07 | 1 | 1020.4 mb | 16.9 | C 15.0 C | 2/8 | | | CS | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 13.79 | 13.79 | 33.381 | 24.980 | 296.7 | 0.000 | 6.93 | 117.7 | 1.3 | 0.22 | 0.1 | 0.00 | 0.01 | 1.42 | 0.40 | 0 | |
| 1 | 13.79 | 13.79 | 33.381 | 24.980 | 296.7 | 0.003 | 6.93 | 117.7 | 1.3 | 0.22 | 0.1 | 0.00 | 0.01 | 1.42 | 0.40 | 1 | 205 |
| 5 | 13.69 | 13.69 | 33.382 | 25.002 | 294.8 | 0.015 | 6.91 | 117.1 | 1.5 | 0.21 | 0.1 | 0.01 | 0.03 | 1.67 | 0.55 | 5 | 204 |
| 10 | 13.38 | 13.38 | 33.373 | 25.058 | 289.6 | 0.029 | 6.29 | 105.9 | 3.3 | 0.42 | 1.0 | 0.10 | 0.43 | 2.37 | 0.93 | 10 | 202 |
| 10 | 13.38 | 13.38 | 33.373 | 25.058 | 289.6 | 0.029 | 6.29 | 105.9 | 3.3 | 0.42 | 1.0 | 0.10 | 0.43 | 2.37 | 0.93 | 10 | 203 |
| 13 | 13.38 | 13.38 | 33.371 | 25.056 | 289.8 | 0.038 | 6.22 | 104.7 | 3.6 | 0.46 | 1.2 | 0.11 | 0.55 | 2.25 | 1.15 | 13 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 81.8 46.9

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|-----------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|-------|--------|------|------|
| 34 17.3 N | 120 1.7 W | 19/01/09 | 1729 | UTC | 581 m | 020 | 03 kn | 280 04 11 | 0 | 1021.3 mb | 16.4 | C 13.8 C | 11m | | | 0/8 | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | db | |
| 0 ISL | 13.16 | 13.16 | 33.398 | 25.121 | 283.3 | 0.000 | 6.20 | 103.9 | 5.5 | 0.52 | 2.3 | 0.11 | 0.05 | 1.65 | 0.70 | 0 | |
| 1 A,B | 13.16 | 13.16 | 33.398 | 25.121 | 283.3 | 0.003 | 6.20 | 103.9 | 5.5 | 0.52 | 2.3 | 0.11 | 0.05 | 1.65 | 0.70 | 1 | 224 |
| 6 B | 13.13 | 13.13 | 33.400 | 25.129 | 282.7 | 0.017 | 6.20 | 103.9 | 5.7 | 0.53 | 2.5 | 0.12 | 0.06 | 1.74 | 0.81 | 6 | 223 |
| 10 ISL | 13.11 D | 13.11 | 33.397 D | 25.130 | 282.6 | 0.028 | 6.15 | 103.0 | 5.8 | 0.54 | 2.7 | 0.13 | 0.07 | 1.66 | 0.78 | 10 | |
| 15 B | 13.08 | 13.08 | 33.404 | 25.142 | 281.7 | 0.042 | 6.04 | 101.1 | 5.9 | 0.57 | 3.1 | 0.15 | 0.08 | 1.57 | 0.75 | 15 | 222 |
| 20 ISL | 13.02 D | 13.02 | 33.400 D | 25.151 | 281.0 | 0.056 | 5.87 | 98.1 | 6.2 | 0.63 | 4.0 | 0.22 | 0.11 | 1.31 | 0.70 | 20 | |
| 22 B | 12.88 | 12.88 | 33.397 | 25.176 | 278.6 | 0.062 | 5.79 | 96.5 | 6.4 | 0.66 | 4.4 | 0.25 | 0.12 | 1.19 | 0.68 | 22 | 221 |
| 30 ISL | 12.69 D | 12.69 | 33.420 D | 25.231 | 273.6 | 0.084 | 5.38 | 89.3 | 7.7 | 0.82 | 6.6 | 0.33 | 0.23 | 0.78 | 0.65 | 30 | |
| 31 B | 12.65 | 12.65 | 33.429 | 25.246 | 272.2 | 0.087 | 5.33 | 88.4 | 7.9 | 0.84 | 6.8 | 0.34 | 0.24 | 0.74 | 0.65 | 31 | 220 |
| 41 | 12.52 | 12.51 | 33.441 | 25.281 | 269.1 | 0.114 | 5.22 | 86.4 | 8.7 | 0.88 | 7.6 | 0.37 | 0.16 | 0.55 | 0.55 | 41 | 219 |
| 48 B | 12.29 | 12.28 | 33.460 | 25.340 | 263.7 | 0.133 | 4.95 | 81.5 | 10.2 | 1.00 | 9.4 | 0.38 | 0.01 | 0.41 | 0.44 | 48 | 218 |
| 50 ISL | 12.22 D | 12.21 | 33.461 D | 25.354 | 262.4 | 0.138 | 4.90 | 80.6 | 10.5 | 1.02 | 9.8 | 0.37 | 0.01 | 0.38 | 0.41 | 50 | |
| 54 | 12.17 | 12.16 | 33.476 | 25.375 | 260.4 | 0.148 | 4.81 | 79.0 | 11.0 | 1.06 | 10.5 | 0.33 | 0.01 | 0.32 | 0.37 | 54 | 217 |
| 60 | 12.04 | 12.03 | 33.483 | 25.406 | 257.7 | 0.164 | 4.67 | 76.5 | 11.7 | 1.10 | 11.4 | 0.27 | 0.00 | 0.29 | 0.36 | 60 | 216 |
| 74 | 11.55 | 11.54 | 33.521 | 25.526 | 246.5 | 0.199 | 4.24 | 68.7 | 14.3 | 1.32 | 14.5 | 0.17 | 0.00 | 0.18 | 0.26 | 74 | 215 |
| 75 ISL | 11.48 D | 11.47 | 33.520 D | 25.539 | 245.4 | 0.202 | 4.21 | 68.2 | 14.5 | 1.33 | 14.7 | 0.16 | 0.00 | 0.17 | 0.25 | 75 | |
| 100 | 10.85 | 10.84 | 33.640 | 25.746 | 226.2 | 0.261 | 3.53 | 56.4 | 18.8 | 1.62 | 19.3 | 0.01 | 0.00 | 0.05 | 0.16 | 101 | 214 |
| 119 | 10.27 | 10.26 | 33.793 | 25.966 | 205.6 | 0.302 | 2.89 | 45.6 | 23.8 | 1.87 | 22.8 | 0.01 | 0.00 | 0.02 | 0.13 | 120 | 213 |
| 125 ISL | 10.09 D | 10.08 | 33.847 D | 26.039 | 198.7 | 0.314 | 2.63 | 41.4 | 26.0 | 1.97 | 24.0 | 0.01 | 0.00 | 0.02 | 0.12 | 126 | |
| 139 | 9.59 | 9.57 | 34.017 | 26.256 | 178.4 | 0.340 | 2.05 | 31.9 | 31.2 | 2.18 | 26.7 | 0.01 | 0.00 | 0.01 | 0.09 | 140 | 212 |
| 150 ISL | 9.39 D | 9.37 | 34.079 D | 26.337 | 170.8 | 0.359 | 1.77 | 27.5 | 34.0 | 2.29 | 28.0 | 0.01 | 0.00 | 0.01 | 0.09 | 151 | |
| 169 | 9.10 | 9.08 | 34.131 | 26.425 | 162.8 | 0.391 | 1.45 | 22.4 | 37.8 | 2.41 | 29.4 | 0.01 | 0.00 | 0.00 | 0.09 | 170 | 211 |
| 199 | 8.83 | 8.81 | 34.159 | 26.490 | 157.1 | 0.439 | 1.11 | 17.0 | 42.7 | 2.55 | 30.8 | 0.01 | 0.00 | 0.00 | 0.08 | 200 | 210 |
| 200 ISL | 8.83 D | 8.81 | 34.157 D | 26.489 | 157.3 | 0.441 | 1.10 | 16.9 | 42.8 | 2.55 | 30.9 | 0.01 | 0.00 | | | 201 | |
| 227 | 8.70 | 8.68 | 34.183 | 26.530 | 153.9 | 0.483 | 0.80 | 12.2 | 46.2 | 2.67 | 32.1 | 0.00 | 0.00 | | | 228 | 209 |
| 250 ISL | 8.48 D | 8.45 | 34.194 D | 26.573 | 150.2 | 0.518 | 0.64 | 9.7 | 50.1 | 2.76 | 32.8 | 0.00 | 0.02 | | | 252 | |
| 268 | 8.24 | 8.21 | 34.214 | 26.625 | 145.4 | 0.544 | 0.57 | 8.6 | 53.2 | 2.83 | 33.2 | 0.00 | 0.03 | | | 270 | 208 |
| 300 ISL | 8.01 D | 7.98 | 34.217 D | 26.662 | 142.3 | 0.590 | 0.53 | 8.0 | 56.7 | 2.91 | 33.8 | 0.00 | 0.01 | | | 302 | |
| 317 | 7.85 | 7.82 | 34.231 | 26.697 | 139.3 | 0.614 | 0.52 | 7.8 | 58.4 | 2.94 | 34.0 | 0.00 | 0.00 | | | 319 | 207 |
| 377 | 7.32 | 7.28 | 34.239 | 26.780 | 132.1 | 0.696 | 0.37 | 5.5 | 66.9 | 3.04 | 34.4 | 0.00 | 0.00 | | | 379 | 206 |
| 400 ISL | 7.09 D | 7.05 | 34.243 D | 26.816 | 128.9 | 0.726 | 0.30 | 4.4 | 71.4 | 3.11 | 34.3 | 0.00 | 0.00 | | | 403 | |
| 438 | 6.85 | 6.81 | 34.251 | 26.855 | 125.5 | 0.774 | 0.19 | 2.8 | 78.8 | 3.21 | 33.6 | 0.00 | 0.00 | | | 441 | 205 |
| 475 | 6.72 | 6.68 | 34.254 | 26.875 | 124.1 | 0.820 | 0.13 | 1.9 | 84.6 | 3.25 | 32.3 | 0.00 | 0.00 | | | 478 | 204 |
| 500 ISL | 6.66 D | 6.61 | 34.254 D | 26.884 | 123.6 | 0.851 | 0.09 | 1.3 | 89.7 | 3.31 | 31.0 | 0.00 | 0.00 | | | 503 | |
| 511 | 6.62 | 6.57 | 34.255 | 26.890 | 123.1 | 0.865 | 0.08 | 1.2 | 91.7 | 3.34 | 30.4 | 0.00 | 0.00 | | | 515 | 203 |
| 541 | 6.56 | 6.51 | 34.256 | 26.899 | 122.7 | 0.901 | 0.07 | 1.0 | 94.7 | 3.37 | 29.4 | 0.00 | 0.00 | | | 545 | 202 |
| 565 | 6.55 | 6.50 | 34.259 | 26.903 | 122.6 | 0.931 | 0.07 | 1.0 | 97.3 | 3.40 | 28.1 | 0.01 | 0.00 | | | 569 | 201 |

A) SANTA BARBARA BASIN STATION.
B) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.
D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 40.6

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.61 | 13.61 | 33.384 | 25.019 | 292.9 | 0.000 | 6.13 | 103.7 | 4.8 | 0.45 | 1.4 | 0.07 | 0.09 | 0.51 | 0.20 | 0 | |
| 2 | 13.61 | 13.61 | 33.384 | 25.019 | 293.0 | 0.006 | 6.13 | 103.7 | 4.8 | 0.45 | 1.4 | 0.07 | 0.09 | 0.51 | 0.20 | 2 | 206 |
| 5 | 13.60 | 13.60 | 33.388 | 25.025 | 292.6 | 0.015 | 6.14 | 103.9 | 4.8 | 0.45 | 1.4 | 0.07 | 0.09 | 0.47 | 0.32 | 5 | 205 |
| 9 | 13.60 | 13.60 | 33.383 | 25.021 | 293.0 | 0.026 | | | | | | | | | | 9 | 204 |
| 10 | 13.54 | 13.54 | 33.383 | 25.033 | 291.9 | 0.029 | 6.13 | 103.6 | 5.0 | 0.48 | 1.7 | 0.08 | 0.07 | 0.60 | 0.21 | 10 | 203 |
| 20 | 13.29 | 13.29 | 33.387 | 25.087 | 287.1 | 0.058 | 6.06 | 101.9 | 5.9 | 0.55 | 2.6 | 0.12 | 0.08 | 1.18 | 0.39 | 20 | 202 |
| 29 | 13.25 | 13.25 | 33.395 | 25.101 | 285.9 | 0.084 | 5.98 | 100.4 | 6.0 | 0.60 | 2.6 | 0.14 | 0.47 | 1.51 | 0.81 | 29 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 42.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.36 | 13.36 | 33.379 | 25.066 | 288.5 | 0.000 | 6.15 | 103.5 | 5.2 | 0.52 | 2.0 | 0.09 | 0.09 | 0.72 | 0.20 | 0 | |
| 2 | 13.36 | 13.36 | 33.379 | 25.066 | 288.5 | 0.006 | 6.15 | 103.5 | 5.2 | 0.52 | 2.0 | 0.09 | 0.09 | 0.72 | 0.20 | 2 | 212 |
| 9 | 13.36 | 13.36 | 33.376 | 25.064 | 288.9 | 0.026 | | | | | | | | | | 9 | 211 |
| 10 | 13.36 | 13.36 | 33.377 | 25.065 | 288.9 | 0.029 | 6.16 | 103.7 | 5.3 | 0.50 | 2.1 | 0.09 | 0.08 | 0.73 | 0.19 | 10 | 210 |
| 19 | 13.25 | 13.25 | 33.369 | 25.081 | 287.6 | 0.055 | 6.19 | 103.9 | 5.5 | 0.53 | 2.4 | 0.10 | 0.09 | 0.84 | 0.16 | 19 | 209 |
| 20 ISL | 13.25 | D 13.25 | 33.366 | D 25.079 | 287.8 | 0.058 | 6.18 | 103.8 | 5.5 | 0.53 | 2.4 | 0.10 | 0.10 | 0.85 | 0.17 | 20 | |
| 30 | 12.92 | 12.92 | 33.366 | 25.144 | 281.8 | 0.086 | 6.07 | 101.2 | 5.9 | 0.60 | 3.5 | 0.15 | 0.14 | 0.92 | 0.29 | 30 | 208 |
| 40 | 12.53 | 12.52 | 33.387 | 25.237 | 273.3 | 0.114 | 5.51 | 91.1 | 8.0 | 0.80 | 6.6 | 0.26 | 0.13 | 0.66 | 0.31 | 40 | 207 |
| 49 | 11.82 | 11.81 | 33.458 | 25.427 | 255.4 | 0.138 | 4.53 | 73.8 | 12.8 | 1.21 | 13.2 | 0.11 | 0.02 | 0.25 | 0.17 | 49 | 206 |
| 50 ISL | 11.70 | D 11.69 | 33.456 | D 25.448 | 253.4 | 0.140 | 4.48 | 72.8 | 13.0 | 1.23 | 13.5 | 0.10 | 0.02 | 0.24 | 0.17 | 50 | |
| 60 | 11.33 | 11.32 | 33.494 | 25.545 | 244.3 | 0.165 | 4.20 | 67.8 | 14.6 | 1.37 | 15.5 | 0.05 | 0.01 | 0.14 | 0.13 | 60 | 205 |
| 69 | 10.98 | 10.97 | 33.566 | 25.664 | 233.2 | 0.187 | 3.85 | 61.7 | 16.9 | 1.52 | 17.7 | 0.03 | 0.00 | 0.08 | 0.11 | 69 | 204 |
| 75 ISL | 10.78 | D 10.77 | 33.654 | D 25.769 | 223.4 | 0.200 | 3.60 | 57.5 | 18.4 | 1.61 | 19.0 | 0.02 | 0.00 | 0.05 | 0.10 | 75 | |
| 85 | 10.60 | 10.59 | 33.720 | 25.852 | 215.7 | 0.222 | 3.20 | 50.9 | 20.9 | 1.74 | 20.8 | 0.01 | 0.00 | 0.02 | 0.10 | 85 | 203 |
| 100 ISL | 10.34 | D 10.33 | 33.819 | D 25.974 | 204.4 | 0.254 | 2.79 | 44.1 | 24.2 | 1.90 | 22.6 | 0.01 | 0.00 | 0.02 | 0.09 | 101 | |
| 101 | 10.33 | 10.32 | 33.826 | 25.981 | 203.7 | 0.256 | 2.77 | 43.8 | 24.4 | 1.91 | 22.7 | 0.01 | 0.00 | 0.02 | 0.09 | 102 | 202 |
| 111 | 10.16 | 10.15 | 33.847 | 26.027 | 199.6 | 0.276 | 2.66 | 41.9 | 25.9 | 1.96 | 23.5 | 0.02 | 0.00 | 0.02 | 0.11 | 112 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 51.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.78 | 12.78 | 33.463 | 25.246 | 271.3 | 0.000 | 6.04 | 100.5 | 5.9 | 0.66 | 4.2 | 0.14 | 0.21 | 4.11 | 0.88 | 0 | |
| 2 | 12.78 | 12.78 | 33.463 | 25.246 | 271.4 | 0.005 | 6.04 | 100.5 | 5.9 | 0.66 | 4.2 | 0.14 | 0.21 | 4.11 | 0.88 | 2 | 211 |
| 5 | 12.77 | 12.77 | 33.461 | 25.247 | 271.4 | 0.014 | 6.06 | 100.8 | 5.8 | 0.66 | 4.1 | 0.15 | 0.22 | 3.78 | 0.84 | 5 | 210 |
| 10 | 12.75 | 12.75 | 33.461 | 25.251 | 271.2 | 0.027 | 6.03 | 100.3 | 5.7 | 0.71 | 4.1 | 0.14 | 0.21 | 4.12 | 0.82 | 10 | 208 |
| 10 | 12.76 | 12.76 | 33.463 | 25.250 | 271.2 | 0.027 | | | | | | | | | | 10 | 209 |
| 20 | 12.72 | 12.72 | 33.460 | 25.256 | 270.9 | 0.054 | 6.00 | 99.7 | 5.8 | 0.71 | 4.2 | 0.14 | 0.21 | 4.46 | 0.85 | 20 | 207 |
| 30 | 12.68 | 12.68 | 33.461 | 25.265 | 270.3 | 0.081 | 5.89 | 97.8 | 6.1 | 0.71 | 4.5 | 0.14 | 0.23 | 4.21 | 0.83 | 30 | 206 |
| 40 | 12.32 | 12.31 | 33.490 | 25.357 | 261.8 | 0.108 | 5.32 | 87.7 | 9.0 | 0.94 | 7.4 | 0.17 | 0.43 | 2.42 | 0.94 | 40 | 205 |
| 50 | 11.74 | 11.73 | 33.588 | 25.543 | 244.4 | 0.133 | 4.51 | 73.5 | 13.8 | 1.21 | 12.3 | 0.18 | 0.35 | 0.85 | 0.65 | 50 | 204 |
| 60 | 11.28 | 11.27 | 33.632 | 25.662 | 233.3 | 0.157 | 3.96 | 63.9 | 17.6 | 1.44 | 16.0 | 0.17 | 0.16 | 0.37 | 0.57 | 60 | 203 |
| 70 | 10.78 | 10.77 | 33.706 | 25.809 | 219.5 | 0.180 | 3.45 | 55.1 | 20.8 | 1.66 | 19.1 | 0.13 | 0.04 | 0.19 | 0.38 | 70 | 202 |
| 75 ISL | 10.56 | D 10.55 | 33.749 | D 25.881 | 212.7 | 0.191 | 3.32 | 52.8 | 21.6 | 1.71 | 19.9 | 0.11 | 0.03 | 0.16 | 0.35 | 75 | |
| 86 | 10.41 | 10.40 | 33.780 | 25.931 | 208.2 | 0.214 | 3.04 | 48.2 | 23.5 | 1.82 | 21.6 | 0.08 | 0.02 | 0.09 | 0.27 | 86 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|-----------------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.30 | 13.30 | 33.338 | 25.046 | 290.4 | 0.000 | 6.34 | 106.6 | 4.8 | 0.48 | 1.6 | 0.06 | 0.05 | 1.53 | 0.39 | 0 | |
| 1 A | 13.30 | 13.30 | 33.338 | 25.046 | 290.4 | 0.003 | 6.34 | 106.6 | 4.8 | 0.48 | 1.6 | 0.06 | 0.05 | 1.53 | 0.39 | 1 223 | |
| 5 A | 13.29 | 13.29 | 33.340 | 25.050 | 290.1 | 0.015 | 6.34 | 106.5 | 5.0 | 0.49 | 1.5 | 0.06 | 0.04 | 1.55 | 0.41 | 5 222 | |
| 10 ISL | 13.24 | D 13.24 | 33.337 D 25.058 | 289.5 | 0.029 | 6.33 | 106.3 | 5.0 | 0.52 | 1.7 | 0.07 | 0.03 | 1.68 | 0.42 | 10 | | |
| 12 A | 13.19 | 13.19 | 33.334 | 25.066 | 288.8 | 0.035 | 6.32 | 106.0 | 5.0 | 0.53 | 1.8 | 0.07 | 0.03 | 1.72 | 0.42 | 12 220 | |
| 12 | 13.20 | 13.20 | 33.334 | 25.064 | 289.0 | 0.035 | | | | | | | | | | 12 221 | |
| 18 A | 12.99 | 12.99 | 33.325 | 25.099 | 285.9 | 0.052 | 6.20 | 103.5 | 5.2 | 0.58 | 2.4 | 0.09 | 0.04 | 1.56 | 0.43 | 18 219 | |
| 20 ISL | 13.02 | D 13.02 | 33.320 D 25.089 | 286.9 | 0.058 | 6.10 | 101.9 | 5.6 | 0.62 | 3.0 | 0.11 | 0.05 | 1.38 | 0.42 | 20 | | |
| 26 A | 12.72 | 12.72 | 33.347 | 25.169 | 279.4 | 0.075 | 5.83 | 96.8 | 6.6 | 0.73 | 4.7 | 0.16 | 0.07 | 0.89 | 0.41 | 26 218 | |
| 30 ISL | 12.72 | D 12.72 | 33.347 D 25.169 | 279.5 | 0.086 | 5.81 | 96.5 | 6.8 | 0.75 | 4.7 | 0.16 | 0.08 | 0.90 | 0.42 | 30 | | |
| 31 | 12.73 | 12.73 | 33.354 | 25.172 | 279.2 | 0.089 | 5.81 | 96.5 | 6.8 | 0.75 | 4.7 | 0.16 | 0.08 | 0.90 | 0.42 | 31 217 | |
| 38 A | 12.75 | 12.74 | 33.364 | 25.176 | 279.0 | 0.108 | 5.76 | 95.7 | 6.7 | 0.76 | 4.8 | 0.16 | 0.07 | 0.88 | 0.47 | 38 216 | |
| 50 | 12.58 | 12.57 | 33.403 | 25.240 | 273.2 | 0.141 | 5.43 | 89.9 | 8.1 | 0.85 | 6.6 | 0.18 | 0.13 | 0.62 | 0.44 | 50 215 | |
| 60 | 12.10 | 12.09 | 33.427 | 25.351 | 262.9 | 0.168 | 4.98 | 81.6 | 10.4 | 1.05 | 9.7 | 0.17 | 0.02 | 0.49 | 0.41 | 60 214 | |
| 70 | 11.01 | 11.00 | 33.364 | 25.502 | 248.7 | 0.194 | 4.73 | 75.7 | 13.1 | 1.29 | 13.6 | 0.05 | 0.00 | 0.21 | 0.17 | 70 213 | |
| 75 ISL | 10.52 | D 10.51 | 33.442 D 25.649 | 234.7 | 0.206 | 4.45 | 70.5 | 15.4 | 1.43 | 16.0 | 0.04 | 0.00 | 0.13 | 0.11 | 75 | | |
| 85 | 9.88 | 9.87 | 33.579 | 25.865 | 214.4 | 0.228 | 3.86 | 60.4 | 20.2 | 1.69 | 20.4 | 0.01 | 0.00 | 0.04 | 0.07 | 85 212 | |
| 100 | 9.53 | 9.52 | 33.752 | 26.058 | 196.3 | 0.259 | 3.37 | 52.4 | 24.6 | 1.87 | 23.3 | 0.01 | 0.00 | 0.01 | 0.05 | 101 211 | |
| 119 | 9.26 | 9.25 | 33.890 | 26.210 | 182.2 | 0.295 | 2.79 | 43.1 | 29.0 | 2.04 | 25.5 | 0.00 | 0.00 | 0.00 | 0.04 | 120 210 | |
| 125 ISL | 9.19 | D 9.18 | 33.914 D 26.240 | 179.5 | 0.306 | 2.70 | 41.7 | 29.7 | 2.05 | 25.9 | 0.00 | 0.00 | 0.00 | 0.04 | 126 | | |
| 138 | 9.08 | 9.07 | 33.947 | 26.284 | 175.6 | 0.329 | 2.58 | 39.7 | 31.0 | 2.07 | 26.5 | 0.00 | 0.00 | 0.00 | 0.04 | 139 209 | |
| 150 ISL | 8.92 | D 8.90 | 33.977 D 26.333 | 171.1 | 0.350 | 2.43 | 37.3 | 33.0 | 2.13 | 27.3 | 0.00 | 0.00 | 0.00 | 0.04 | 151 | | |
| 168 | 8.56 | 8.54 | 34.041 | 26.439 | 161.3 | 0.380 | 2.21 | 33.7 | 36.3 | 2.24 | 28.6 | 0.00 | 0.00 | 0.00 | 0.03 | 169 208 | |
| 200 ISL | 8.37 | D 8.35 | 34.105 D 26.519 | 154.2 | 0.430 | 1.82 | 27.6 | 40.7 | 2.40 | 30.0 | 0.01 | 0.00 | 0.00 | 0.03 | 201 | | |
| 201 | 8.37 | 8.35 | 34.103 | 26.517 | 154.4 | 0.432 | 1.81 | 27.5 | 40.8 | 2.40 | 30.0 | 0.01 | 0.00 | 0.00 | 0.03 | 202 207 | |
| 228 | 8.35 | 8.33 | 34.133 | 26.544 | 152.4 | 0.473 | 1.62 | 24.6 | 42.9 | 2.48 | 30.5 | 0.01 | 0.01 | | | 229 206 | |
| 250 ISL | 8.16 | D 8.13 | 34.163 D 26.597 | 147.7 | 0.506 | 1.42 | 21.4 | 46.1 | 2.57 | 31.5 | 0.02 | 0.01 | | | 252 | | |
| 268 | 7.97 | 7.94 | 34.179 | 26.638 | 144.1 | 0.532 | 1.25 | 18.8 | 48.9 | 2.65 | 32.3 | 0.02 | 0.01 | | | 270 205 | |
| 300 ISL | 7.72 | D 7.69 | 34.200 D 26.691 | 139.4 | 0.578 | 1.05 | 15.7 | 52.4 | 2.76 | 33.2 | 0.01 | 0.02 | | | 302 | | |
| 317 | 7.62 | 7.59 | 34.216 | 26.719 | 137.1 | 0.601 | 0.97 | 14.5 | 54.1 | 2.81 | 33.6 | 0.01 | 0.02 | | | 319 204 | |
| 377 | 7.13 | 7.09 | 34.248 | 26.814 | 128.7 | 0.681 | 0.68 | 10.0 | 61.9 | 2.94 | 35.4 | 0.00 | 0.00 | | | 379 203 | |
| 400 ISL | 6.83 | D 6.79 | 34.246 D 26.853 | 125.1 | 0.710 | 0.62 | 9.1 | 65.1 | 2.99 | 36.2 | 0.00 | 0.00 | | | 403 | | |
| 437 | 6.54 | 6.50 | 34.249 | 26.895 | 121.5 | 0.756 | 0.54 | 7.9 | 70.1 | 3.06 | 37.4 | 0.00 | 0.00 | | | 440 202 | |
| 500 ISL | 6.21 | D 6.17 | 34.284 D 26.966 | 115.3 | 0.830 | 0.39 | 5.6 | 77.0 | 3.14 | 38.6 | 0.00 | 0.00 | | | 503 | | |
| 514 | 6.15 | 6.10 | 34.299 | 26.986 | 113.6 | 0.846 | 0.36 | 5.2 | 78.5 | 3.16 | 38.9 | 0.00 | 0.00 | | | 518 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS;PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|-----------------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.06 | 13.06 | 33.388 | 25.133 | 282.1 | 0.000 | 6.43 | 107.6 | 6.0 | 0.55 | 2.2 | 0.08 | 0.12 | 1.65 | 0.32 | 0 | |
| 2 | 13.06 | 13.06 | 33.388 | 25.133 | 282.2 | 0.006 | 6.43 | 107.6 | 6.0 | 0.55 | 2.2 | 0.08 | 0.12 | 1.65 | 0.32 | 2 221 | |
| 9 | 13.01 | 13.01 | 33.388 | 25.143 | 281.4 | 0.025 | | | | | | | | | | 9 220 | |
| 10 | 12.99 | 12.99 | 33.386 | 25.146 | 281.2 | 0.028 | 6.40 | 106.9 | 6.1 | 0.56 | 2.5 | 0.09 | 0.09 | 1.87 | 0.47 | 10 219 | |
| 20 | 12.76 | 12.76 | 33.385 | 25.190 | 277.2 | 0.056 | 6.13 | 101.9 | 6.5 | 0.69 | 3.9 | 0.18 | 0.09 | 1.44 | 0.55 | 20 218 | |
| 30 | 12.68 | 12.68 | 33.386 | 25.207 | 275.9 | 0.084 | 5.97 | 99.1 | 6.9 | 0.74 | 4.6 | 0.24 | 0.23 | 0.86 | 0.48 | 30 217 | |
| 40 | 12.65 | 12.64 | 33.387 | 25.214 | 275.5 | 0.111 | 5.92 | 98.2 | 7.0 | 0.76 | 4.8 | 0.26 | 0.22 | 0.72 | 0.48 | 40 216 | |
| 50 | 12.61 | 12.60 | 33.389 | 25.223 | 274.8 | 0.139 | 5.88 | 97.4 | 7.0 | 0.77 | 5.1 | 0.28 | 0.15 | 0.73 | 0.31 | 50 215 | |
| 60 | 11.73 | 11.72 | 33.435 | 25.426 | 255.7 | 0.165 | 5.11 | 83.1 | 11.1 | 1.09 | 10.6 | 0.21 | 0.05 | 0.26 | 0.23 | 60 214 | |
| 69 | 11.17 | 11.16 | 33.475 | 25.560 | 243.2 | 0.188 | 4.47 | 71.9 | 14.8 | 1.37 | 15.3 | 0.06 | 0.01 | 0.14 | 0.15 | 69 213 | |
| 75 ISL | 11.08 | D 11.07 | 33.482 D 25.581 | 241.2 | 0.202 | 4.16 | 66.7 | 16.9 | 1.51 | 17.7 | 0.04 | 0.01 | 0.09 | 0.12 | 75 | | |
| 84 | 10.35 | 10.34 | 33.595 | 25.797 | 220.8 | 0.223 | 3.77 | 59.6 | 19.9 | 1.69 | 20.5 | 0.01 | 0.00 | 0.04 | 0.10 | 84 212 | |
| 100 | 9.59 | 9.58 | 33.770 | 26.062 | 195.9 | 0.256 | 3.11 | 48.4 | 25.6 | 1.97 | 24.7 | 0.01 | 0.01 | 0.01 | 0.09 | 101 211 | |
| 119 | 9.31 | 9.30 | 33.850 | 26.171 | 186.0 | 0.293 | 2.81 | 43.5 | 28.2 | 2.07 | 26.1 | 0.01 | 0.00 | 0.00 | 0.08 | 120 210 | |
| 125 ISL | 9.16 | D 9.15 | 33.905 D 26.238 | 179.7 | 0.304 | 2.70 | 41.6 | 29.0 | 2.10 | 26.6 | 0.01 | 0.00 | 0.00 | 0.08 | 126 | | |
| 139 | 9.06 | 9.04 | 33.935 | 26.277 | 176.2 | 0.329 | 2.46 | 37.9 | 31.0 | 2.18 | 27.6 | 0.00 | 0.01 | 0.00 | 0.07 | 140 209 | |
| 150 ISL | 8.93 | D 8.91 | 33.961 D 26.318 | 172.5 | 0.348 | 2.33 | 35.8 | 32.5 | 2.22 | 28.2 | 0.00 | 0.02 | 0.00 | 0.06 | 151 | | |
| 169 | 8.72 | 8.70 | 34.015 | 26.394 | 165.6 | 0.380 | 2.14 | 32.7 | 35.0 | 2.28 | 29.0 | 0.00 | 0.03 | 0.00 | 0.05 | 170 208 | |
| 200 | 8.41 | 8.39 | 34.060 | 26.477 | 158.2 | 0.430 | 1.80 | 27.3 | 38.8 | 2.42 | 30.7 | 0.00 | 0.00 | 0.00 | 0.05 | 201 207 | |
| 228 | 8.12 | 8.10 | 34.101 | 26.554 | 151.4 | 0.473 | 1.58 | 23.8 | 43.1 | 2.55 | 32.2 | 0.01 | 0.00 | | | 229 206 | |
| 250 ISL | 7.65 | D 7.63 | 34.090 D 26.614 | 145.8 | 0.506 | 1.46 | 21.8 | 46.6 | 2.62 | 33.1 | 0.01 | 0.00 | | | 252 | | |
| 268 | 7.59 | 7.56 | 34.115 | 26.643 | 143.3 | 0.532 | 1.37 | 20.4 | 49.4 | 2.67 | 33.8 | 0.00 | 0.00 | | | 270 205 | |
| 300 ISL | 7.32 | D 7.29 | 3 | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.85 | 13.85 | 33.225 | 24.847 | 309.3 | 0.000 | 6.18 | 105.0 | 2.7 | 0.40 | 0.3 | 0.02 | 0.02 | 0.71 | 0.02 | 0 | |
| 2 | 13.85 | 13.85 | 33.225 | 24.847 | 309.4 | 0.006 | 6.18 | 105.0 | 2.7 | 0.40 | 0.3 | 0.02 | 0.02 | 0.71 | 0.02 | 2 222 | |
| 10 ISL | 13.84 | 13.84 | 33.225 | 24.850 | 309.4 | 0.031 | 6.12 | 103.9 | 2.7 | 0.40 | 0.3 | 0.02 | 0.00 | 0.64 | 0.17 | 10 | |
| 10 | 13.85 | 13.85 | 33.225 | 24.848 | 309.6 | 0.031 | | | | | | | | | | 10 221 | |
| 11 | 13.84 | 13.84 | 33.225 | 24.850 | 309.4 | 0.034 | 6.11 | 103.8 | 2.7 | 0.40 | 0.3 | 0.02 | 0.00 | 0.63 | 0.19 | 11 220 | |
| 20 ISL | 13.47 | 13.47 | 33.226 | 24.926 | 302.4 | 0.062 | 6.11 | 103.0 | 3.2 | 0.46 | 1.2 | 0.07 | 0.02 | 0.68 | 0.20 | 20 | |
| 21 | 13.44 | 13.44 | 33.233 | 24.938 | 301.3 | 0.065 | 6.11 | 102.9 | 3.3 | 0.47 | 1.3 | 0.08 | 0.02 | 0.69 | 0.20 | 21 219 | |
| 30 ISL | 13.14 | D 13.14 | 33.240 | D 25.003 | 295.3 | 0.091 | 6.03 | 100.9 | 3.8 | 0.53 | 2.1 | 0.13 | 0.03 | 0.84 | 0.05 | 30 | |
| 31 | 13.12 | 13.12 | 33.244 | 25.010 | 294.6 | 0.094 | 6.02 | 100.7 | 3.8 | 0.53 | 2.2 | 0.14 | 0.03 | 0.85 | 0.04 | 31 218 | |
| 41 | 13.10 | 13.09 | 33.245 | 25.015 | 294.4 | 0.124 | 5.98 | 100.0 | 3.7 | 0.55 | 2.4 | 0.16 | 0.06 | 0.62 | 0.21 | 41 217 | |
| 50 | 13.02 | 13.01 | 33.241 | 25.028 | 293.4 | 0.150 | 5.91 | 98.7 | 4.0 | 0.57 | 2.7 | 0.19 | 0.20 | 0.36 | 0.19 | 50 216 | |
| 61 | 12.45 | 12.44 | 33.173 | 25.087 | 288.1 | 0.182 | 5.82 | 96.0 | 5.0 | 0.68 | 4.3 | 0.20 | 0.11 | 0.30 | 0.14 | 61 215 | |
| 70 | 11.89 | 11.88 | 33.161 | 25.184 | 279.0 | 0.208 | 5.59 | 91.1 | 6.8 | 0.84 | 7.1 | 0.18 | 0.00 | 0.19 | 0.13 | 70 214 | |
| 75 ISL | 11.14 | D 11.13 | 33.168 | D 25.326 | 265.5 | 0.221 | 5.23 | 83.9 | 9.7 | 1.03 | 10.3 | 0.13 | 0.00 | 0.13 | 0.10 | 75 | |
| 86 | 10.15 | 10.14 | 33.395 | 25.676 | 232.4 | 0.249 | 4.38 | 68.8 | 16.5 | 1.45 | 17.4 | 0.01 | 0.00 | 0.03 | 0.05 | 86 213 | |
| 100 ISL | 9.85 | D 9.84 | 33.614 | D 25.897 | 211.6 | 0.280 | 3.89 | 60.8 | 20.2 | 1.64 | 20.6 | 0.01 | 0.00 | 0.01 | 0.05 | 100 | |
| 101 | 9.90 | 9.89 | 33.589 | 25.869 | 214.3 | 0.282 | 3.87 | 60.6 | 20.4 | 1.65 | 20.7 | 0.01 | 0.00 | 0.01 | 0.05 | 101 212 | |
| 121 | 9.43 | 9.42 | 33.757 | 26.078 | 194.8 | 0.323 | 3.38 | 52.4 | 24.8 | 1.83 | 23.6 | 0.00 | 0.00 | 0.00 | 0.04 | 122 211 | |
| 125 ISL | 9.28 | D 9.27 | 33.795 | D 26.132 | 189.7 | 0.331 | 3.25 | 50.2 | 25.7 | 1.87 | 24.1 | 0.00 | 0.00 | 0.00 | 0.04 | 126 | |
| 141 | 9.23 | 9.21 | 33.904 | 26.226 | 181.1 | 0.360 | 2.70 | 41.7 | 29.1 | 2.04 | 26.0 | 0.00 | 0.00 | 0.00 | 0.03 | 142 209 | |
| 150 ISL | 8.98 | D 8.96 | 33.960 | D 26.310 | 173.3 | 0.376 | 2.39 | 36.7 | 31.4 | 2.13 | 27.2 | 0.00 | 0.00 | 0.00 | 0.03 | 151 | |
| 171 | 8.89 | 8.87 | 34.059 | 26.402 | 165.0 | 0.412 | 1.80 | 27.6 | 36.2 | 2.32 | 29.8 | 0.00 | 0.00 | 0.00 | 0.03 | 172 208 | |
| 200 ISL | 8.61 | D 8.59 | 34.102 | D 26.480 | 158.0 | 0.459 | 1.52 | 23.2 | 39.7 | 2.44 | 31.4 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | |
| 201 | 8.61 | 8.59 | 34.110 | 26.486 | 157.5 | 0.460 | 1.51 | 23.0 | 39.8 | 2.44 | 31.4 | 0.00 | 0.00 | 0.00 | 0.03 | 202 207 | |
| 231 | 8.33 | 8.31 | 34.167 | 26.574 | 149.6 | 0.506 | 1.18 | 17.9 | 45.0 | 2.60 | 32.7 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 8.17 | D 8.14 | 34.174 | D 26.604 | 147.0 | 0.534 | 1.08 | 16.3 | 47.2 | 2.65 | 33.1 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.03 | 8.00 | 34.192 | 26.639 | 144.0 | 0.563 | 1.03 | 15.5 | 49.3 | 2.68 | 33.4 | 0.00 | 0.00 | | | 272 205 | |
| 300 ISL | 7.63 | D 7.60 | 34.198 | D 26.703 | 138.3 | 0.606 | 0.94 | 14.0 | 53.1 | 2.76 | 34.3 | 0.00 | 0.00 | | | 302 | |
| 320 | 7.44 | 7.41 | 34.193 | 26.726 | 136.3 | 0.633 | 0.90 | 13.4 | 55.8 | 2.81 | 34.9 | 0.00 | 0.00 | | | 322 204 | |
| 382 | 6.65 | 6.61 | 34.163 | 26.812 | 128.5 | 0.715 | 0.86 | 12.5 | 63.7 | 2.89 | 36.9 | 0.00 | 0.00 | | | 384 203 | |
| 400 ISL | 6.46 | D 6.42 | 34.166 | D 26.839 | 126.0 | 0.738 | 0.78 | 11.3 | 66.4 | 2.94 | 37.5 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.20 | 6.16 | 34.206 | 26.905 | 120.2 | 0.789 | 0.58 | 8.4 | 72.4 | 3.05 | 38.6 | 0.00 | 0.00 | | | 444 202 | |
| 500 ISL | 5.97 | D 5.93 | 34.248 | D 26.968 | 114.8 | 0.858 | 0.41 | 5.9 | 79.0 | 3.15 | 39.7 | 0.00 | 0.00 | | | 503 | |
| 518 | 5.833 | 5.788 | 34.259 | 26.994 | 112.5 | 0.879 | 0.36 | 5.1 | 81.0 | 3.18 | 40.0 | 0.00 | 0.00 | | | 522 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|-------|-------|--------|----------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.80 | 13.80 | 33.157 | 24.805 | 313.3 | 0.000 | 6.20 | 105.2 | 2.9 | 0.42 | 0.6 | 0.04 | 0.04 | 0.56 | 0.11 | 0 | |
| 2 | 13.80 | 13.80 | 33.157 | 24.805 | 313.4 | 0.006 | 6.20 | 105.2 | 2.9 | 0.42 | 0.6 | 0.04 | 0.04 | 0.56 | 0.11 | 2 222 | |
| 10 ISL | 13.37 | 13.37 | 33.128 | 24.870 | 307.4 | 0.031 | 6.20 | 104.2 | 3.2 | 0.46 | 1.1 | 0.06 | 0.04 | 0.52 | 0.10 | 10 220 | |
| 10 | 13.38 | 13.38 | 33.127 | 24.867 | 307.7 | 0.031 | | | | | | | | | | 10 221 | |
| 16 | 13.06 | 13.06 | 33.097 | 24.908 | 303.9 | 0.049 | 6.18 | 103.2 | 3.6 | 0.51 | 1.9 | 0.09 | 0.08 | 0.68 | 0.23 | 16 219 | |
| 20 | 13.01 | 13.01 | 33.104 | 24.923 | 302.6 | 0.062 | 6.10 | 101.7 | 3.7 | 0.54 | 2.3 | 0.11 | 0.09 | 0.66 | 0.26 | 20 218 | |
| 29 | 12.83 | 12.83 | 33.129 | 24.979 | 297.6 | 0.089 | 6.06 | 100.7 | 3.9 | 0.58 | 2.8 | 0.16 | 0.13 | 0.52 | 0.22 | 29 217 | |
| 30 ISL | 12.82 | D 12.82 | 33.125 | D 24.977 | 297.7 | 0.092 | 6.05 | 100.5 | 3.9 | 0.58 | 2.8 | 0.16 | 0.14 | 0.51 | 0.22 | 30 | |
| 40 | 12.74 | 12.73 | 33.137 | 25.002 | 295.6 | 0.121 | 6.00 | 99.5 | 4.0 | 0.59 | 2.9 | 0.19 | 0.18 | 0.39 | 0.20 | 40 216 | |
| 49 | 12.55 | 12.54 | 33.130 | 25.034 | 292.8 | 0.148 | 5.98 | 98.8 | 4.4 | 0.62 | 3.5 | 0.20 | 0.17 | 0.28 | 0.15 | 49 215 | |
| 50 ISL | 12.55 | D 12.54 | 33.127 | D 25.032 | 293.0 | 0.151 | 5.98 | 98.8 | 4.4 | 0.63 | 3.6 | 0.20 | 0.17 | 0.28 | 0.15 | 50 | |
| 59 | 12.39 | 12.38 | 33.129 | 25.064 | 290.1 | 0.177 | 5.96 | 98.1 | 4.8 | 0.68 | 4.2 | 0.24 | 0.18 | 0.26 | 0.14 | 59 214 | |
| 70 | 12.30 | 12.29 | 33.143 | 25.093 | 287.7 | 0.209 | 5.94 | 97.6 | 5.2 | 0.70 | 4.5 | 0.28 | 0.19 | 0.22 | 0.14 | 70 213 | |
| 75 ISL | 12.23 | D 12.22 | 33.157 | D 25.117 | 285.6 | 0.223 | 5.95 | 97.6 | 5.4 | 0.71 | 4.6 | 0.28 | 0.20 | 0.20 | 0.13 | 75 | |
| 84 | 12.17 | 12.16 | 33.168 | 25.137 | 283.8 | 0.249 | 5.96 | 97.7 | 5.6 | 0.72 | 4.9 | 0.27 | 0.22 | 0.18 | 0.12 | 84 212 | |
| 100 ISL | 12.07 | 12.06 | 33.177 | 25.163 | 281.7 | 0.294 | 5.95 | 97.3 | 5.9 | 0.75 | 5.3 | 0.28 | 0.20 | 0.15 | 0.11 | 100 211 | |
| 119 | 10.94 | 10.93 | 33.162 | 25.358 | 263.4 | 0.346 | 5.34 | 85.2 | 9.8 | 1.05 | 10.5 | 0.10 | 0.00 | 0.08 | 0.09 | 120 210 | |
| 125 ISL | 10.36 | D 10.35 | 33.194 | D 25.484 | 251.5 | 0.361 | 5.01 | 79.0 | 12.1 | 1.20 | 13.0 | 0.06 | 0.00 | 0.06 | 0.08 | 126 | |
| 139 | 10.09 | 10.07 | 33.466 | 25.742 | 227.2 | 0.395 | 4.22 | 66.2 | 17.9 | 1.54 | 18.6 | 0.00 | 0.01 | 0.02 | 0.07 | 140 209 | |
| 150 ISL | 9.90 | 9.88 | 33.587 | D 25.869 | 215.4 | 0.419 | 3.85 | 60.2 | 21.1 | 1.68 | 21.1 | 0.00 | 0.01 | 0.01 | 0.06 | 151 | |
| 169 | 9.34 | 9.32 | 33.779 | 26.111 | 192.6 | 0.458 | 3.31 | 51.2 | 25.7 | 1.86 | 23.9 | 0.00 | 0.00 | 0.00 | 0.04 | 170 208 | |
| 200 ISL | 9.03 | D 9.01 | 34.030 | D 26.358 | 169.8 | 0.514 | 2.08 | 32.0 | 33.9 | 2.22 | 28.5 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | |
| 201 | 9.03 | 9.01 | 34.033 | 26.360 | 169.6 | 0.516 | 2.04 | 31.4 | 34.1 | 2.23 | 28.6 | 0.00 | 0.00 | 0.00 | 0.03 | 202 207 | |
| 229 | 8.75 | 8.73 | 34.088 | 26.448 | 161.7 | 0.562 | 1.63 | 24.9 | 38.3</td | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|--------|----------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|------|---------|
| 32 34.9 N | 122 49.5 W | 17/01/09 | 1808 | UTC | 4173 m | 120 | 03 kn | 320 06 | 14 | 1021.7 mb | 12.3 C | 10.8 C | 16m | 6/8 | ST | |
| 0 ISL | 13.29 | 13.29 | 33.131 | 24.888 | 305.4 | 0.000 | 6.20 | 104.0 | 3.5 | 0.49 | 1.5 | 0.07 | 0.05 | 0.67 | 0.15 | 0 |
| 1 A | 13.29 | 13.29 | 33.131 | 24.888 | 305.4 | 0.003 | 6.20 | 104.0 | 3.5 | 0.49 | 1.5 | 0.07 | 0.05 | 0.67 | 0.15 | 1 221 |
| 8 | 13.25 | 13.25 | 33.131 | 24.896 | 304.8 | 0.024 | | | | | | | | | | 8 220 |
| 9 A | 13.26 | 13.26 | 33.133 | 24.896 | 304.9 | 0.027 | 6.22 | 104.3 | 3.5 | 0.50 | 1.5 | 0.07 | 0.01 | 0.70 | 0.15 | 9 219 |
| 10 ISL | 13.25 | D 13.25 | 33.128 | D 24.894 | 305.1 | 0.031 | 6.22 | 104.3 | 3.5 | 0.50 | 1.5 | 0.07 | 0.01 | 0.71 | 0.16 | 10 |
| 16 | 13.15 | 13.15 | 33.131 | 24.917 | 303.1 | 0.049 | 6.22 | 104.1 | 3.5 | 0.50 | 1.6 | 0.08 | 0.04 | 0.79 | 0.20 | 16 218 |
| 20 ISL | 13.14 | D 13.14 | 33.126 | D 24.915 | 303.4 | 0.061 | 6.24 | 104.4 | 3.4 | 0.50 | 1.7 | 0.08 | 0.04 | 0.82 | 0.22 | 20 |
| 21 A | 13.10 | 13.10 | 33.129 | 24.925 | 302.5 | 0.064 | 6.24 | 104.3 | 3.4 | 0.50 | 1.7 | 0.08 | 0.04 | 0.82 | 0.23 | 21 217 |
| 30 ISL | 12.87 | D 12.87 | 33.096 | D 24.945 | 300.8 | 0.091 | 6.10 | 101.4 | 3.6 | 0.54 | 2.3 | 0.10 | 0.01 | 0.77 | 0.27 | 30 |
| 32 A | 12.78 | 12.78 | 33.088 | 24.957 | 299.7 | 0.097 | 6.06 | 100.6 | 3.7 | 0.55 | 2.5 | 0.11 | 0.00 | 0.76 | 0.27 | 32 216 |
| 44 A | 12.28 | 12.27 | 33.040 | 25.016 | 294.4 | 0.133 | 5.88 | 96.5 | 4.3 | 0.64 | 3.8 | 0.16 | 0.00 | 0.37 | 0.18 | 44 215 |
| 50 ISL | 12.03 | D 12.02 | 32.999 | D 25.031 | 293.0 | 0.150 | 5.81 | 94.9 | 4.7 | 0.69 | 4.6 | 0.14 | 0.00 | 0.23 | 0.14 | 50 |
| 57 | 11.77 | 11.76 | 33.002 | 25.082 | 288.3 | 0.171 | 5.72 | 92.9 | 5.4 | 0.75 | 5.6 | 0.09 | 0.00 | 0.12 | 0.11 | 57 214 |
| 68 A | 11.42 | 11.41 | 33.022 | 25.162 | 281.0 | 0.202 | 5.57 | 89.8 | 7.1 | 0.88 | 7.8 | 0.03 | 0.01 | 0.08 | 0.09 | 68 213 |
| 75 ISL | 11.27 | D 11.26 | 33.148 | D 25.287 | 269.2 | 0.221 | 5.28 | 84.9 | 8.9 | 1.01 | 10.0 | 0.02 | 0.01 | 0.06 | 0.08 | 75 |
| 83 | 11.10 | 11.09 | 33.221 | 25.375 | 261.1 | 0.242 | 4.91 | 78.7 | 11.1 | 1.17 | 12.7 | 0.01 | 0.00 | 0.05 | 0.08 | 83 212 |
| 100 | 10.73 | 10.72 | 33.451 | 25.620 | 238.1 | 0.285 | 4.43 | 70.5 | 15.3 | 1.42 | 17.0 | 0.01 | 0.00 | 0.04 | 0.06 | 100 211 |
| 118 | 10.02 | 10.01 | 33.592 | 25.852 | 216.3 | 0.326 | 3.91 | 61.3 | 19.1 | 1.62 | 20.4 | 0.00 | 0.00 | 0.01 | 0.04 | 119 210 |
| 125 ISL | 9.83 | D 9.82 | 33.708 | D 25.974 | 204.8 | 0.341 | 3.56 | 55.7 | 21.7 | 1.74 | 22.1 | 0.00 | 0.00 | 0.00 | 0.04 | 126 |
| 138 | 9.62 | 9.60 | 33.812 | 26.091 | 194.0 | 0.366 | 2.94 | 45.8 | 26.4 | 1.94 | 24.9 | 0.00 | 0.00 | 0.00 | 0.05 | 139 209 |
| 150 ISL | 9.41 | D 9.39 | 33.867 | D 26.168 | 186.8 | 0.389 | 2.84 | 44.0 | 28.7 | 1.98 | 26.1 | 0.00 | 0.00 | 0.00 | 0.04 | 151 |
| 168 | 8.96 | 8.94 | 33.927 | 26.287 | 175.8 | 0.422 | 2.70 | 41.5 | 30.8 | 2.05 | 26.9 | 0.00 | 0.00 | 0.00 | 0.03 | 169 208 |
| 200 | 8.41 | 8.39 | 33.969 | 26.406 | 164.9 | 0.476 | 2.76 | 41.9 | 34.0 | 2.06 | 27.7 | 0.00 | 0.00 | 0.00 | 0.04 | 201 207 |
| 228 | 8.02 | 8.00 | 33.997 | 26.487 | 157.6 | 0.522 | 2.56 | 38.5 | 38.0 | 2.16 | 29.1 | 0.00 | 0.00 | | | 229 206 |
| 250 ISL | 7.75 | D 7.73 | 34.015 | D 26.541 | 152.7 | 0.556 | 2.34 | 35.0 | 41.8 | 2.26 | 30.5 | 0.00 | 0.00 | | | 251 |
| 267 | 7.53 | 7.50 | 34.022 | 26.578 | 149.4 | 0.581 | 2.14 | 31.8 | 44.9 | 2.35 | 31.6 | 0.00 | 0.00 | | | 269 205 |
| 300 ISL | 7.11 | D 7.08 | 34.042 | D 26.653 | 142.6 | 0.630 | 1.73 | 25.5 | 50.7 | 2.51 | 33.9 | 0.00 | 0.00 | | | 302 |
| 318 | 6.99 | 6.96 | 34.058 | 26.682 | 140.0 | 0.655 | 1.52 | 22.3 | 53.8 | 2.59 | 35.0 | 0.00 | 0.00 | | | 320 204 |
| 379 | 6.54 | 6.51 | 34.113 | 26.787 | 130.7 | 0.738 | 1.05 | 15.3 | 63.3 | 2.83 | 37.1 | 0.00 | 0.00 | | | 381 203 |
| 400 ISL | 6.31 | D 6.27 | 34.122 | D 26.824 | 127.3 | 0.765 | 0.94 | 13.6 | 66.9 | 2.89 | 37.8 | 0.00 | 0.00 | | | 403 |
| 438 | 6.00 | 5.96 | 34.151 | 26.887 | 121.6 | 0.812 | 0.77 | 11.1 | 72.9 | 2.99 | 39.0 | 0.00 | 0.00 | | | 441 202 |
| 500 ISL | 5.90 | D 5.86 | 34.233 | D 26.965 | 115.1 | 0.885 | 0.49 | 7.0 | 78.9 | 3.10 | 39.8 | 0.00 | 0.00 | | | 503 |
| 515 | 5.83 | 5.79 | 34.243 | 26.981 | 113.6 | 0.903 | 0.42 | 6.0 | 80.3 | 3.13 | 40.0 | 0.00 | 0.00 | | | 519 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|--------|----------|--------|-------|-------|-------|------|-----------|--------|--------|--------|------|------|---------|
| 32 14.8 N | 123 29.6 W | 17/01/09 | 1100 | UTC | 4173 m | 060 | 02 kn | | | 1021.5 mb | 12.0 C | 11.9 C | | | | |
| 0 ISL | 13.60 | 13.60 | 33.241 | 24.911 | 303.3 | 0.000 | 6.26 | 105.8 | 3.3 | 0.42 | 0.5 | 0.03 | 0.02 | 1.22 | 0.25 | 0 |
| 2 | 13.60 | 13.60 | 33.241 | 24.911 | 303.3 | 0.006 | 6.26 | 105.8 | 3.3 | 0.42 | 0.5 | 0.03 | 0.02 | 1.22 | 0.25 | 2 221 |
| 9 | 13.56 | 13.56 | 33.240 | 24.918 | 302.8 | 0.027 | | | | | | | | | | 9 220 |
| 10 | 13.50 | 13.50 | 33.241 | 24.931 | 301.6 | 0.030 | 6.29 | 106.1 | 3.4 | 0.42 | 0.7 | 0.04 | 0.00 | 1.28 | 0.27 | 10 219 |
| 20 | 13.33 | 13.33 | 33.248 | 24.971 | 298.1 | 0.060 | 6.10 | 102.5 | 3.4 | 0.48 | 1.4 | 0.09 | 0.03 | 0.79 | 0.32 | 20 218 |
| 30 ISL | 13.26 | D 13.26 | 33.240 | D 24.979 | 297.5 | 0.090 | 6.01 | 100.9 | 3.8 | 0.51 | 1.9 | 0.12 | 0.10 | 0.58 | 0.28 | 30 |
| 31 | 13.27 | 13.27 | 33.243 | 24.980 | 297.5 | 0.093 | 6.00 | 100.7 | 3.8 | 0.51 | 1.9 | 0.12 | 0.11 | 0.57 | 0.27 | 31 217 |
| 40 | 13.22 | 13.21 | 33.246 | 24.992 | 296.6 | 0.120 | 5.92 | 99.3 | 3.8 | 0.53 | 2.2 | 0.14 | 0.18 | 0.38 | 0.22 | 40 216 |
| 50 | 12.89 | 12.88 | 33.237 | 25.051 | 291.3 | 0.149 | 5.74 | 95.6 | 4.8 | 0.64 | 3.8 | 0.15 | 0.14 | 0.27 | 0.17 | 50 215 |
| 60 | 12.26 | 12.25 | 33.218 | 25.158 | 281.2 | 0.178 | 5.44 | 89.4 | 6.8 | 0.81 | 6.8 | 0.12 | 0.00 | 0.17 | 0.12 | 60 214 |
| 70 | 11.43 | 11.42 | 33.324 | 25.395 | 258.9 | 0.205 | 4.78 | 77.2 | 11.7 | 1.17 | 12.8 | 0.02 | 0.00 | 0.09 | 0.10 | 70 213 |
| 75 ISL | 10.93 | D 10.92 | 33.480 | D 25.606 | 238.8 | 0.217 | 4.41 | 70.5 | 14.3 | 1.34 | 15.5 | 0.01 | 0.00 | 0.07 | 0.09 | 75 |
| 85 | 10.56 | 10.55 | 33.604 | 25.768 | 223.6 | 0.240 | 3.68 | 58.4 | 19.4 | 1.64 | 20.1 | 0.00 | 0.00 | 0.05 | 0.07 | 85 212 |
| 100 | 9.89 | 9.88 | 33.806 | 26.040 | 198.0 | 0.272 | 2.85 | 44.6 | 25.6 | 1.94 | 24.5 | 0.00 | 0.00 | 0.01 | 0.05 | 100 211 |
| 120 | 9.72 | 9.71 | 33.950 | 26.182 | 185.0 | 0.310 | 2.30 | 35.9 | 29.2 | 2.10 | 26.0 | 0.00 | 0.00 | 0.00 | 0.05 | 121 210 |
| 125 ISL | 9.59 | D 9.58 | 34.001 | D 26.243 | 179.3 | 0.319 | 2.16 | 33.7 | 30.3 | 2.14 | 26.6 | 0.00 | 0.00 | 0.00 | 0.05 | 126 |
| 139 | 9.43 | 9.41 | 34.039 | 26.299 | 174.2 | 0.344 | 1.83 | 28.4 | 33.0 | 2.26 | 28.1 | 0.00 | 0.00 | 0.00 | 0.05 | 140 209 |
| 150 ISL | 9.29 | D 9.27 | 34.056 | D 26.335 | 171.0 | 0.363 | 1.66 | 25.7 | 34.4 | 2.32 | 28.9 | 0.00 | 0.00 | 0.00 | 0.05 | 151 |
| 169 | 9.26 | 9.24 | 34.106 | 26.380 | 167.2 | 0.395 | 1.47 | 22.7 | 36.0 | 2.40 | 29.6 | 0.00 | 0.00 | 0.00 | 0.04 | 170 208 |
| 200 ISL | 9.26 | D 9.24 | 34.177 | D 26.436 | 162.5 | 0.446 | 1.32 | 20.4 | 37.7 | 2.46 | 29.7 | 0.00 | 0.00 | 0.00 | 0.03 | 201 |
| 201 | 9.26 | 9.24 | 34.179 | 26.437 | 162.4 | 0.448 | 1.32 | 20.4 | 37.7 | 2.46 | 29.7 | 0.00 | 0.00 | 0.00 | 0.03 | 202 207 |
| 228 | 9.15 | 9.12 | 34.220 | 26.488 | 158.1 | 0.491 | 1.13 | 17.5 | 39.8 | 2.55 | 30.4 | 0.00 | 0.00 | | | 229 206 |
| 250 ISL | 9.05 | D 9.02 | 34.243 | D 26.522 | 155.3 | 0.526 | 1.03 | 15.9 | 41.6 | 2.59 | 30.8 | 0.00 | 0.00 | | | 251 |
| 268 | 8.94 | 8.91 | 34.261 | 26.554 | 152.6 | 0.553 | 0.97 | 14.9 | 43.0 | 2.62 | 31.0 | 0.00 | 0.00 | | | 270 205 |
| 300 ISL | 8.73 | D 8.70 | 34.278 | D 26.601 | 148.6 | 0.602 | 0.86 | 13.2 | 45.3 | 2.68 | 31.5 | 0.00 | 0.00 | | | 302 |
| 317 | 8.65 | 8.62 | 34.280 | 26.615 | 147.6 | 0.627 | 0.82 | 12.5 | 46.5 | 2.71 | 31.8 | 0.00 | 0.00 | | | 319 204 |
| 378 | 8.33 | 8.29 | 34.293 | 26.675 | 142.8 | 0.7 | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.32 | 14.32 | 33.205 | 24.734 | 320.1 | 0.000 | 6.15 | 105.5 | 2.5 | 0.36 | 0.0 | 0.00 | 0.02 | 0.77 | 0.16 | 0 | |
| 2 | 14.32 | 14.32 | 33.205 | 24.734 | 320.1 | 0.006 | 6.15 | 105.5 | 2.5 | 0.36 | 0.0 | 0.00 | 0.02 | 0.77 | 0.16 | 2 222 | |
| 10 | 13.99 | 13.99 | 33.241 | 24.831 | 311.1 | 0.032 | 6.30 | 107.3 | 2.8 | 0.36 | 0.0 | 0.00 | 0.03 | 1.08 | 0.00 | 10 220 | |
| 11 | 14.05 | 14.05 | 33.242 | 24.819 | 312.3 | 0.035 | | | | | | | | | | 11 221 | |
| 15 | 13.76 | 13.76 | 33.248 | 24.884 | 306.2 | 0.047 | 6.32 | 107.2 | 3.0 | 0.36 | 0.0 | 0.01 | 0.03 | 1.58 | 0.35 | 15 219 | |
| 20 | 13.69 | 13.69 | 33.254 | 24.903 | 304.6 | 0.062 | 6.15 | 104.1 | 3.1 | 0.41 | 0.6 | 0.05 | 0.07 | 1.13 | 0.35 | 20 218 | |
| 30 ISL | 13.57 | 13.57 | 33.257 | 24.930 | 302.3 | 0.093 | 6.02 | 101.7 | 3.4 | 0.45 | 1.1 | 0.09 | 0.17 | 0.88 | 0.18 | 30 | |
| 31 | 13.57 | 13.57 | 33.261 | 24.933 | 302.0 | 0.096 | 6.02 | 101.7 | 3.4 | 0.45 | 1.1 | 0.09 | 0.18 | 0.87 | 0.16 | 31 217 | |
| 41 | 13.44 | 13.43 | 33.274 | 24.970 | 298.8 | 0.126 | 5.98 | 100.7 | 3.6 | 0.49 | 1.6 | 0.14 | 0.31 | 0.52 | 0.22 | 41 216 | |
| 50 ISL | 13.31 | 13.30 | 33.272 | 24.995 | 296.7 | 0.153 | 5.95 | 100.0 | 3.8 | 0.53 | 2.0 | 0.19 | 0.41 | 0.34 | 0.31 | 50 | |
| 51 | 13.32 | 13.31 | 33.277 | 24.997 | 296.5 | 0.156 | 5.95 | 100.0 | 3.8 | 0.53 | 2.0 | 0.19 | 0.42 | 0.33 | 0.31 | 51 215 | |
| 61 | 13.23 | 13.22 | 33.279 | 25.016 | 294.9 | 0.185 | 5.89 | 98.8 | 4.1 | 0.55 | 2.4 | 0.24 | 0.45 | 0.38 | 0.14 | 61 214 | |
| 71 | 12.92 | 12.91 | 33.276 | 25.076 | 289.5 | 0.214 | 5.78 | 96.3 | 5.1 | 0.66 | 4.0 | 0.43 | 0.14 | 0.21 | 0.11 | 71 213 | |
| 75 ISL | 12.78 | 12.77 | 33.275 | 25.103 | 287.0 | 0.226 | 5.68 | 94.4 | 5.8 | 0.73 | 5.2 | 0.33 | 0.08 | 0.16 | 0.11 | 75 | |
| 85 | 11.66 | 11.65 | 33.207 | 25.262 | 271.9 | 0.254 | 5.33 | 86.4 | 8.3 | 0.95 | 9.1 | 0.02 | 0.01 | 0.08 | 0.12 | 85 212 | |
| 100 ISL | 10.60 | 10.59 | 33.351 | 25.564 | 243.3 | 0.292 | 4.51 | 71.6 | 14.5 | 1.36 | 16.0 | 0.01 | 0.01 | 0.04 | 0.07 | 100 | |
| 101 | 10.54 | 10.53 | 33.365 | 25.586 | 241.3 | 0.295 | 4.45 | 70.5 | 15.0 | 1.39 | 16.4 | 0.01 | 0.01 | 0.04 | 0.07 | 101 211 | |
| 121 | 9.70 | 9.69 | 33.649 | 25.950 | 207.0 | 0.340 | 3.75 | 58.4 | 21.9 | 1.69 | 21.6 | 0.01 | 0.01 | 0.04 | 0.07 | 122 210 | |
| 125 ISL | 9.47 | 9.46 | 33.712 | 26.037 | 198.8 | 0.348 | 3.74 | 58.0 | 22.6 | 1.69 | 21.7 | 0.01 | 0.01 | 0.04 | 0.07 | 126 | |
| 140 | 9.13 | 9.11 | 33.838 | 26.190 | 184.5 | 0.377 | 3.70 | 57.0 | 24.4 | 1.70 | 22.2 | 0.01 | 0.01 | 0.00 | 0.02 | 141 209 | |
| 150 ISL | 8.98 | 8.96 | 33.880 | 26.247 | 179.2 | 0.395 | 3.71 | 57.0 | 25.3 | 1.70 | 22.4 | 0.01 | 0.01 | 0.00 | 0.01 | 151 | |
| 171 | 8.63 | 8.61 | 33.950 | 26.357 | 169.1 | 0.431 | 3.73 | 56.9 | 27.7 | 1.69 | 23.2 | 0.00 | 0.00 | 0.00 | 0.01 | 172 208 | |
| 200 ISL | 8.26 | 8.24 | 33.984 | 26.440 | 161.6 | 0.479 | 2.99 | 45.2 | 34.1 | 1.98 | 26.9 | 0.00 | 0.00 | 0.00 | 0.01 | 201 | |
| 201 | 8.25 | 8.23 | 33.987 | 26.444 | 161.3 | 0.481 | 2.96 | 44.7 | 34.3 | 1.99 | 27.0 | 0.00 | 0.00 | 0.00 | 0.01 | 202 207 | |
| 231 | 7.78 | 7.76 | 34.013 | 26.535 | 153.0 | 0.528 | 2.51 | 37.5 | 41.0 | 2.19 | 29.5 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 7.60 | 7.58 | 34.023 | 26.569 | 150.0 | 0.557 | 2.14 | 31.9 | 44.6 | 2.33 | 31.2 | 0.00 | 0.00 | | | 251 | |
| 271 | 7.48 | 7.45 | 34.063 | 26.618 | 145.7 | 0.588 | 1.75 | 26.0 | 48.1 | 2.48 | 32.9 | 0.00 | 0.00 | | | 273 205 | |
| 300 ISL | 7.29 | 7.26 | 34.096 | 26.671 | 141.0 | 0.629 | 1.44 | 21.3 | 51.9 | 2.61 | 34.2 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.17 | 7.14 | 34.107 | 26.696 | 138.9 | 0.659 | 1.30 | 19.2 | 54.4 | 2.67 | 34.9 | 0.00 | 0.00 | | | 323 204 | |
| 381 | 6.62 | 6.59 | 34.126 | 26.786 | 130.9 | 0.740 | 1.03 | 15.0 | 62.6 | 2.83 | 36.8 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 6.39 | 6.35 | 34.124 | 26.815 | 128.2 | 0.764 | 0.95 | 13.8 | 65.4 | 2.88 | 37.4 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.11 | 6.07 | 34.155 | 26.876 | 122.8 | 0.816 | 0.80 | 11.5 | 71.2 | 2.98 | 38.7 | 0.00 | 0.00 | | | 444 202 | |
| 500 ISL | 5.71 | 5.67 | 34.173 | 26.941 | 117.1 | 0.887 | 0.60 | 8.6 | 78.0 | 3.07 | 40.0 | 0.00 | 0.00 | | | 503 | |
| 521 | 5.67 | 5.63 | 34.197 | 26.965 | 115.1 | 0.911 | 0.53 | 7.5 | 80.4 | 3.10 | 40.5 | 0.00 | 0.00 | | | 525 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 85.4 35.8

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.68 | 13.68 | 33.383 | 25.004 | 294.4 | 0.000 | 6.31 | 106.9 | 3.0 | 0.35 | 0.4 | 0.05 | 0.22 | 1.96 | 0.55 | 0 | |
| 2 | 13.68 | 13.68 | 33.383 | 25.004 | 294.4 | 0.006 | 6.31 | 106.9 | 3.0 | 0.35 | 0.4 | 0.05 | 0.22 | 1.96 | 0.55 | 2 205 | |
| 5 | 13.68 | 13.68 | 33.384 | 25.005 | 294.4 | 0.015 | 6.32 | 107.1 | 3.1 | 0.36 | 0.4 | 0.05 | 0.20 | 2.01 | 0.60 | 5 204 | |
| 10 | 13.68 | 13.68 | 33.384 | 25.005 | 294.5 | 0.029 | 6.31 | 106.9 | 2.8 | 0.37 | 0.4 | 0.05 | 0.22 | 2.20 | 0.74 | 10 202 | |
| 10 | 13.68 | 13.68 | 33.384 | 25.005 | 294.5 | 0.029 | | | | | | | | | | 10 203 | |
| 17 | 13.62 | 13.62 | 33.384 | 25.018 | 293.6 | 0.050 | 6.30 | 106.6 | 3.1 | 0.38 | 0.6 | 0.06 | 0.25 | 2.32 | 0.80 | 17 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 33.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|--------|-------|--------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.88 | 13.88 | 33.364 | 24.948 | 299.7 | 0.000 | 6.41 | 109.0 | 2.3 | 0.34 | 0.0 | 0.00 | 0.00 | 1.40 | 0.14 | 0 | |
| 1 A | 13.88 | 13.88 | 33.364 | 24.948 | 299.7 | 0.003 | 6.41 | 109.0 | 2.3 | 0.34 | 0.0 | 0.00 | 0.00 | 1.40 | 0.14 | 1 208 | |
| 6 | 13.81 | 13.81 | 33.366 | 24.965 | 298.3 | 0.018 | 6.40 | 108.7 | 2.8 | 0.35 | 0.0 | 0.00 | 0.01 | 1.16 | 0.05 | 6 207 | |
| 10 | 13.63 | 13.63 | 33.360 | 24.997 | 295.3 | 0.030 | 6.18 | 104.6 | 3.8 | 0.38 | 0.4 | 0.05 | 0.11 | 1.64 | 0.00 | 10 205 | |
| 10 | 13.67 | 13.67 | 33.361 | 24.990 | 296.0 | 0.030 | | | | | | | | | | 10 206 | |
| 20 | 13.13 | 13.13 | 33.347 | 25.088 | 287.0 | 0.059 | 5.42 | 90.8 | 7.2 | 0.79 | 5.2 | 0.31 | 3.56 | 1.18 | 0.21 | 20 204 | |
| 30 | 12.22 | 12.22 | 33.307 | 25.234 | 273.3 | 0.087 | 4.35 | 71.5 | 14.2 | 1.49 | 12.7 | 0.50 | 15.63 | A 0.34 | 0.28 | 30 203 | |
| 40 | 12.17 | 12.16 | 33.442 | 25.349 | 262.6 | 0.114 | 4.17 | 68.5 | 13.5 | 1.38 | 12.6 | 0.43 | 3.36 | 0.56 | 0.41 | 40 202 | |
| 50 ISL | 11.68 | 11.67 | 33.531 | 25.510 | 247.5 | 0.139 | 3.73 | 60.6 | 16.6 | 1.54 | 15.3 | 0.38 | 2.62 | 0.42 | 0.37 | 50 | |
| 51 | 11.65 | 11.64 | 33.528 | 25.513 | 247.2 | 0.142 | 3.69 | 60.0 | 16.9 | 1.56 | 15.6 | 0.37 | 2.55 | 0.41 | 0.37 | 51 201 | |

A) UNUSUAL PROFILES, ODD N03/P04 RAT

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|-------|--------|------|------|
| 33 49.4 N | 118 37.8 W | 14/01/09 | 1842 | UTC | 665 m | 120 | 02 kn | 300 01 07 | 0 | 1018.9 mb | 18.0 | C 12.8 C | 17m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.03 | 14.03 | 33.364 | 24.917 | 302.6 | 0.000 | 6.43 | 109.7 | 2.6 | 0.37 | 0.1 | 0.01 | 0.02 | 1.19 | 0.26 | 0 | |
| 1 A | 14.03 | 14.03 | 33.364 | 24.917 | 302.6 | 0.003 | 6.43 | 109.7 | 2.6 | 0.37 | 0.1 | 0.01 | 0.02 | 1.19 | 0.26 | 1 | 221 |
| 10 A | 13.72 | 13.72 | 33.360 | 24.979 | 297.1 | 0.030 | 6.30 | 106.8 | 3.3 | 0.39 | 0.4 | 0.06 | 0.31 | 1.64 | 0.49 | 10 | 219 |
| 10 | 13.73 | 13.73 | 33.360 | 24.976 | 297.3 | 0.030 | 6.30 | 106.8 | 3.2 | 0.42 | 0.3 | 0.05 | 0.26 | 1.60 | 0.49 | 10 | 220 |
| 16 | 13.65 | 13.65 | 33.357 | 24.991 | 296.1 | 0.048 | 6.03 | 102.1 | 4.1 | 0.45 | 1.0 | 0.13 | 1.07 | 1.54 | 0.50 | 16 | 218 |
| 20 ISL | 13.47 | 13.47 | 33.348 D | 25.020 | 293.4 | 0.060 | 5.72 | 96.5 | 5.4 | 0.59 | 2.7 | 0.27 | 1.85 | 1.27 | 0.51 | 20 | |
| 23 A | 13.29 | 13.29 | 33.354 | 25.061 | 289.5 | 0.068 | 5.48 | 92.1 | 6.4 | 0.71 | 4.2 | 0.36 | 2.28 | 1.05 | 0.52 | 23 | 217 |
| 30 ISL | 13.12 | D 13.12 | 33.370 D | 25.108 | 285.3 | 0.088 | 5.12 | 85.7 | 7.7 | 0.87 | 6.8 | 0.29 | 1.29 | 0.79 | 0.47 | 30 | |
| 35 A | 12.82 | 12.82 | 33.415 | 25.202 | 276.5 | 0.103 | 4.88 | 81.2 | 8.7 | 0.97 | 8.7 | 0.24 | 0.64 | 0.44 | 35 | 216 | |
| 46 A | 11.99 | 11.98 | 33.492 | 25.422 | 255.8 | 0.132 | 4.14 | 67.7 | 12.8 | 1.31 | 14.3 | 0.07 | 0.01 | 0.16 | 0.21 | 46 | 215 |
| 50 ISL | 11.96 | D 11.95 | 33.491 D | 25.427 | 255.5 | 0.142 | 4.07 | 66.6 | 13.3 | 1.35 | 14.9 | 0.06 | 0.01 | 0.15 | 0.21 | 50 | |
| 60 | 11.67 | 11.66 | 33.514 | 25.499 | 248.8 | 0.167 | 3.98 | 64.7 | 14.2 | 1.39 | 15.7 | 0.05 | 0.01 | 0.12 | 0.22 | 60 | 214 |
| 73 A | 11.15 | 11.14 | 33.625 | 25.680 | 231.8 | 0.198 | 3.51 | 56.5 | 18.0 | 1.59 | 18.7 | 0.07 | 0.01 | 0.06 | 0.14 | 73 | 213 |
| 75 ISL | 11.06 | D 11.05 | 33.641 D | 25.709 | 229.2 | 0.203 | 3.44 | 55.2 | 18.5 | 1.62 | 19.0 | 0.07 | 0.01 | 0.06 | 0.14 | 75 | |
| 86 | 10.81 | 10.80 | 33.711 | 25.808 | 220.0 | 0.228 | 3.12 | 49.8 | 20.8 | 1.77 | 20.6 | 0.08 | 0.02 | 0.04 | 0.17 | 86 | 212 |
| 100 | 10.51 | 10.50 | 33.804 | 25.933 | 208.3 | 0.258 | 2.80 | 44.5 | 23.5 | 1.87 | 22.3 | 0.02 | 0.00 | 0.02 | 0.13 | 101 | 211 |
| 119 | 10.03 | 10.02 | 33.943 | 26.124 | 190.5 | 0.296 | 2.30 | 36.2 | 28.0 | 2.07 | 24.9 | 0.00 | 0.01 | 0.01 | 0.07 | 120 | 210 |
| 125 ISL | 9.96 | D 9.95 | 33.986 D | 26.170 | 186.3 | 0.307 | 2.19 | 34.4 | 28.9 | 2.11 | 25.5 | 0.00 | 0.01 | 0.01 | 0.07 | 126 | |
| 139 | 9.82 | 9.80 | 34.037 | 26.233 | 180.6 | 0.333 | 2.00 | 31.3 | 30.6 | 2.19 | 26.5 | 0.00 | 0.01 | 0.02 | 0.07 | 140 | 209 |
| 150 ISL | 9.84 | D 9.82 | 34.053 D | 26.243 | 179.9 | 0.352 | 1.88 | 29.5 | 31.8 | 2.23 | 27.0 | 0.00 | 0.01 | 0.02 | 0.07 | 151 | |
| 168 | 9.63 | 9.61 | 34.112 | 26.324 | 172.5 | 0.384 | 1.74 | 27.1 | 33.5 | 2.29 | 27.7 | 0.00 | 0.00 | 0.02 | 0.08 | 169 | 208 |
| 200 | 9.44 | 9.42 | 34.164 | 26.396 | 166.3 | 0.438 | 1.54 | 23.9 | 36.3 | 2.38 | 28.7 | 0.00 | 0.00 | 0.00 | 0.09 | 201 | 207 |
| 228 | 9.22 | 9.19 | 34.197 | 26.458 | 160.9 | 0.484 | 1.39 | 21.5 | 38.6 | 2.44 | 29.3 | 0.00 | 0.00 | | 229 | 206 | |
| 250 ISL | 9.09 | D 9.06 | 34.226 D | 26.502 | 157.2 | 0.519 | 1.31 | 20.2 | 40.3 | 2.49 | 29.7 | 0.00 | 0.00 | | 251 | | |
| 268 | 8.91 | 8.88 | 34.233 | 26.537 | 154.2 | 0.547 | 1.24 | 19.0 | 41.9 | 2.54 | 30.1 | 0.00 | 0.00 | | 270 | 205 | |
| 300 ISL | 8.52 | D 8.49 | 34.248 D | 26.610 | 147.7 | 0.596 | 1.05 | 16.0 | 46.3 | 2.64 | 31.4 | 0.00 | 0.00 | | 302 | | |
| 317 | 8.35 | 8.32 | 34.259 | 26.645 | 144.6 | 0.620 | 0.94 | 14.3 | 48.9 | 2.69 | 32.2 | 0.00 | 0.00 | | 319 | 204 | |
| 377 | 7.75 | 7.71 | 34.279 | 26.750 | 135.2 | 0.704 | 0.69 | 10.3 | 56.2 | 2.84 | 34.1 | 0.00 | 0.00 | | 379 | 203 | |
| 400 ISL | 7.49 | D 7.45 | 34.283 D | 26.791 | 131.6 | 0.735 | 0.63 | 9.4 | 58.6 | 2.89 | 34.7 | 0.00 | 0.00 | | 403 | | |
| 438 | 7.24 | 7.20 | 34.290 | 26.832 | 128.1 | 0.784 | 0.53 | 7.8 | 63.0 | 2.97 | 35.7 | 0.00 | 0.00 | | 441 | 202 | |
| 500 ISL | 6.59 | D 6.54 | 34.319 D | 26.944 | 117.8 | 0.861 | 0.34 | 5.0 | 74.1 | 3.11 | 37.6 | 0.00 | 0.02 | | 503 | | |
| 515 | 6.41 | 6.36 | 34.326 | 26.974 | 115.1 | 0.878 | 0.29 | 4.2 | 76.8 | 3.15 | 38.1 | 0.00 | 0.02 | | 519 | 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 40.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|------|----------|--------|-------|--------|------|------|
| 33 39.4 N | 118 58.7 W | 14/01/09 | 2301 | UTC | 752 m | 310 | 12 kn | 310 01 06 | 0 | 1016.6 mb | 15.8 | C 13.9 C | 13m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.40 | 14.40 | 33.372 | 24.846 | 309.4 | 0.000 | 6.29 | 108.2 | 3.9 | 0.35 | 0.0 | 0.00 | 0.01 | 0.47 | 0.29 | 0 | |
| 1 | 14.40 | 14.40 | 33.372 | 24.846 | 309.4 | 0.003 | 6.29 | 108.2 | 3.9 | 0.35 | 0.0 | 0.00 | 0.01 | 0.47 | 0.29 | 1 | 224 |
| 10 | 13.93 | 13.93 | 33.358 | 24.934 | 301.3 | 0.031 | 6.38 | 108.6 | 3.5 | 0.30 | 0.0 | 0.00 | 0.06 | 0.60 | 0.33 | 10 | 223 |
| 19 | 13.83 | 13.83 | 33.370 | 24.964 | 298.8 | 0.058 | 6.26 | 106.4 | 4.3 | 0.33 | 0.0 | 0.01 | 0.03 | 0.68 | 0.55 | 19 | 222 |
| 20 ISL | 13.83 | D 13.83 | 33.366 D | 24.961 | 299.1 | 0.061 | 6.23 | 105.9 | 4.4 | 0.34 | 0.1 | 0.02 | 0.03 | 0.72 | 0.59 | 20 | |
| 29 | 13.52 | 13.52 | 33.371 | 25.028 | 292.9 | 0.087 | 5.89 | 99.5 | 5.4 | 0.49 | 1.8 | 0.15 | 0.03 | 0.97 | 0.82 | 29 | 221 |
| 30 ISL | 13.46 | D 13.46 | 33.369 D | 25.039 | 291.9 | 0.090 | 5.87 | 99.0 | 5.5 | 0.50 | 2.0 | 0.16 | 0.05 | 0.94 | 0.79 | 30 | |
| 40 | 12.97 | 12.96 | 33.392 | 25.155 | 281.1 | 0.119 | 5.58 | 93.2 | 6.9 | 0.69 | 4.8 | 0.25 | 0.16 | 0.53 | 0.35 | 40 | 220 |
| 50 | 12.36 | 12.35 | 33.408 | 25.286 | 268.8 | 0.146 | 4.91 | 80.9 | 9.8 | 0.99 | 9.7 | 0.17 | 0.01 | 0.24 | 0.21 | 50 | 219 |
| 60 | 11.88 | 11.87 | 33.435 | 25.398 | 258.4 | 0.173 | 4.58 | 74.7 | 12.0 | 1.17 | 12.5 | 0.08 | 0.00 | 0.17 | 0.16 | 60 | 218 |
| 70 | 11.36 | 11.35 | 33.479 | 25.528 | 246.2 | 0.198 | 4.19 | 67.6 | 14.3 | 1.37 | 15.7 | 0.02 | 0.00 | 0.11 | 0.16 | 70 | 217 |
| 75 ISL | 11.19 | D 11.18 | 33.538 D | 25.605 | 239.0 | 0.210 | 4.02 | 64.7 | 15.6 | 1.45 | 17.0 | 0.02 | 0.00 | 0.09 | 0.14 | 75 | |
| 85 | 10.79 | 10.78 | 33.600 | 25.725 | 227.8 | 0.233 | 3.72 | 59.4 | 18.1 | 1.58 | 19.0 | 0.01 | 0.00 | 0.05 | 0.10 | 85 | 216 |
| 100 | 10.47 | 10.46 | 33.688 | 25.850 | 216.2 | 0.267 | 3.39 | 53.7 | 20.8 | 1.71 | 21.0 | 0.01 | 0.00 | 0.02 | 0.08 | 101 | 215 |
| 119 | 10.20 | 10.19 | 33.777 | 25.966 | 205.6 | 0.307 | 3.07 | 48.4 | 23.5 | 1.83 | 22.7 | 0.00 | 0.00 | 0.02 | 0.08 | 120 | 214 |
| 125 ISL | 10.09 | D 10.08 | 33.804 D | 26.006 | 201.9 | 0.319 | 3.01 | 47.4 | 24.0 | 1.85 | 23.0 | 0.00 | 0.01 | 0.02 | 0.07 | 126 | |
| 139 | 10.01 | 9.99 | 33.835 | 26.044 | 198.6 | 0.347 | 2.87 | 45.1 | 25.1 | 1.91 | 23.5 | 0.00 | 0.02 | 0.02 | 0.06 | 140 | 213 |
| 150 ISL | 9.78 | D 9.76 | 33.891 D | 26.126 | 190.9 | 0.368 | 2.72 | 42.5 | 26.8 | 1.97 | 24.3 | 0.00 | 0.02 | 0.02 | 0.06 | 151 | |
| 169 | 9.52 | 9.50 | 33.955 | 26.219 | 182.4 | 0.404 | 2.45 | 38.1 | 30.2 | 2.09 | 25.8 | 0.00 | 0.01 | 0.06 | 0.10 | 170 | 212 |
| 200 ISL | 9.04 | D 9.02 | 34.056 D | 26.376 | 168.0 | 0.458 | 2.01 | 30.9 | 35.7 | 2.25 | 28.0 | 0.01 | 0.00 | 0.01 | 0.06 | 201 | |
| 201 | 9.03 | 9.01 | 34.059 | 26.380 | 167.7 | 0.460 | 2.00 | 30.8 | 35 | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 45.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | 1017.1 mb | 16.0 | C | 12.9 | C | ug/l | ug/l | db | |
| 0 ISL | 13.84 | 13.84 | 33.375 | 24.965 | 298.1 | 0.000 | 6.16 | 104.7 | 4.7 | 0.43 | 1.0 | 0.06 | 0.11 | 0.47 | 0.19 | 0 | | |
| 2 | 13.84 | 13.84 | 33.375 | 24.965 | 298.1 | 0.006 | 6.16 | 104.7 | 4.7 | 0.43 | 1.0 | 0.06 | 0.11 | 0.47 | 0.19 | 2 | 221 | |
| 10 | 13.48 | 13.48 | 33.372 | 25.037 | 291.6 | 0.030 | 6.13 | 103.4 | 4.9 | 0.45 | 1.4 | 0.08 | 0.07 | 0.70 | 0.32 | 10 | 219 | |
| 10 | 13.48 | 13.48 | 33.373 | 25.037 | 291.5 | 0.030 | 6.13 | 103.4 | 4.9 | 0.44 | 1.4 | 0.08 | 0.02 | 0.76 | 0.31 | 10 | 220 | |
| 20 | 13.46 | 13.46 | 33.373 | 25.042 | 291.3 | 0.059 | 6.10 | 102.9 | 4.8 | 0.46 | 1.3 | 0.09 | 0.03 | 0.92 | 0.32 | 20 | 218 | |
| 30 | 13.45 | 13.45 | 33.372 | 25.043 | 291.5 | 0.088 | 6.08 | 102.5 | 4.7 | 0.44 | 1.3 | 0.10 | 0.08 | 0.96 | 0.39 | 30 | 217 | |
| 40 | 13.25 | 13.24 | 33.374 | 25.085 | 287.7 | 0.117 | 5.77 | 96.9 | 5.6 | 0.57 | 3.1 | 0.22 | 0.09 | 0.68 | 0.31 | 40 | 216 | |
| 50 | 11.94 | 11.93 | 33.385 | 25.348 | 262.9 | 0.144 | 4.72 | 77.1 | 10.8 | 1.12 | 11.7 | 0.04 | 0.00 | 0.18 | 0.17 | 50 | 215 | |
| 60 | 11.16 | 11.15 | 33.498 | 25.579 | 241.1 | 0.170 | 4.13 | 66.4 | 15.2 | 1.40 | 16.5 | 0.01 | 0.00 | 0.08 | 0.12 | 60 | 214 | |
| 71 | 10.58 | 10.57 | 33.577 | 25.743 | 225.7 | 0.195 | 3.82 | 60.7 | 18.2 | 1.58 | 19.1 | 0.01 | 0.00 | 0.04 | 0.10 | 71 | 213 | |
| 75 ISL | 10.38 | D 10.37 | 33.629 D | 25.819 | 218.6 | 0.204 | 3.73 | 59.0 | 19.0 | 1.62 | 19.7 | 0.01 | 0.00 | 0.03 | 0.10 | 75 | | |
| 86 | 10.35 | 10.34 | 33.673 | 25.858 | 215.1 | 0.228 | 3.45 | 54.5 | 21.2 | 1.71 | 21.2 | 0.00 | 0.00 | 0.02 | 0.10 | 86 | 212 | |
| 100 ISL | 9.99 | D 9.98 | 33.834 D | 26.046 | 197.6 | 0.257 | 2.89 | 45.4 | 25.0 | 1.90 | 23.5 | 0.00 | 0.00 | 0.01 | 0.07 | 101 | | |
| 102 | 9.99 | 9.98 | 33.842 | 26.052 | 197.0 | 0.261 | 2.82 | 44.3 | 25.5 | 1.92 | 23.8 | 0.00 | 0.00 | 0.01 | 0.07 | 103 | 211 | |
| 121 | 9.78 | 9.77 | 33.912 | 26.142 | 188.8 | 0.297 | 2.61 | 40.8 | 27.5 | 2.00 | 24.9 | 0.00 | 0.00 | 0.01 | 0.06 | 122 | 210 | |
| 125 ISL | 9.68 | D 9.67 | 33.933 D | 26.175 | 185.7 | 0.305 | 2.57 | 40.1 | 28.0 | 2.02 | 25.2 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | | |
| 141 | 9.49 | 9.47 | 33.980 | 26.243 | 179.6 | 0.334 | 2.39 | 37.1 | 30.3 | 2.10 | 26.3 | 0.00 | 0.00 | 0.01 | 0.05 | 142 | 209 | |
| 150 ISL | 9.47 | D 9.45 | 34.023 D | 26.280 | 176.2 | 0.350 | 2.22 | 34.5 | 31.9 | 2.16 | 27.0 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | | |
| 171 | 9.15 | 9.13 | 34.112 | 26.402 | 165.0 | 0.386 | 1.85 | 28.6 | 35.7 | 2.30 | 28.6 | 0.00 | 0.00 | 0.00 | 0.04 | 172 | 208 | |
| 200 ISL | 8.75 | D 8.73 | 34.133 D | 26.482 | 157.9 | 0.433 | 1.65 | 25.2 | 39.5 | 2.41 | 30.1 | 0.00 | 0.00 | 0.00 | 0.04 | 201 | | |
| 201 | 8.75 | 8.73 | 34.136 | 26.485 | 157.7 | 0.434 | 1.65 | 25.2 | 39.6 | 2.41 | 30.1 | 0.00 | 0.00 | 0.00 | 0.04 | 202 | 207 | |
| 231 | 8.47 | 8.45 | 34.168 | 26.553 | 151.6 | 0.481 | 1.41 | 21.4 | 43.5 | 2.54 | 31.3 | 0.00 | 0.00 | 0.00 | 0.04 | 232 | 206 | |
| 250 ISL | 8.28 | D 8.25 | 34.193 D | 26.602 | 147.3 | 0.509 | 1.29 | 19.5 | 45.9 | 2.60 | 32.0 | 0.00 | 0.00 | 0.00 | 0.04 | 252 | | |
| 271 | 8.10 | 8.07 | 34.201 | 26.636 | 144.4 | 0.540 | 1.17 | 17.6 | 48.6 | 2.66 | 32.8 | 0.00 | 0.00 | 0.00 | 0.04 | 273 | 205 | |
| 300 ISL | 7.83 | D 7.80 | 34.207 D | 26.681 | 140.5 | 0.581 | 0.99 | 14.8 | 52.2 | 2.75 | 33.6 | 0.00 | 0.00 | 0.00 | 0.04 | 302 | | |
| 321 | 7.69 | 7.66 | 34.234 | 26.723 | 136.8 | 0.610 | 0.86 | 12.8 | 54.8 | 2.81 | 34.1 | 0.00 | 0.00 | 0.00 | 0.04 | 323 | 204 | |
| 383 | 7.27 | 7.23 | 34.285 | 26.823 | 128.0 | 0.692 | 0.57 | 8.4 | 61.8 | 2.97 | 35.8 | 0.00 | 0.00 | 0.00 | 0.04 | 386 | 203 | |
| 400 ISL | 7.13 | D 7.09 | 34.281 D | 26.840 | 126.6 | 0.714 | 0.52 | 7.7 | 63.7 | 3.00 | 36.3 | 0.00 | 0.00 | 0.00 | 0.04 | 403 | | |
| 442 | 6.85 | 6.81 | 34.299 | 26.893 | 122.0 | 0.766 | 0.42 | 6.2 | 68.7 | 3.08 | 37.4 | 0.00 | 0.00 | 0.00 | 0.04 | 445 | 202 | |
| 500 ISL | 6.35 | D 6.30 | 34.326 D | 26.981 | 114.1 | 0.835 | 0.29 | 4.2 | 76.7 | 3.18 | 38.7 | 0.00 | 0.00 | 0.01 | 0.04 | 503 | | |
| 520 | 6.23 | 6.18 | 34.334 | 27.003 | 112.1 | 0.857 | 0.24 | 3.5 | 79.4 | 3.22 | 39.2 | 0.00 | 0.00 | 0.02 | 0.04 | 524 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 50.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | 1017.0 mb | 14.0 | C | 13.0 | C | ug/l | ug/l | db | |
| 0 ISL | 13.03 | 13.03 | 33.309 | 25.078 | 287.4 | 0.000 | 6.14 | 102.6 | 5.2 | 0.56 | 2.6 | 0.09 | 0.06 | 0.82 | 0.23 | 0 | | |
| 2 | 13.03 | 13.03 | 33.309 | 25.078 | 287.4 | 0.006 | 6.14 | 102.6 | 5.2 | 0.56 | 2.6 | 0.09 | 0.06 | 0.82 | 0.23 | 2 | 210 | |
| 6 | 13.02 | 13.02 | 33.316 | 25.085 | 286.8 | 0.017 | 6.10 | 101.9 | 5.4 | 0.58 | 2.9 | 0.10 | 0.06 | 1.09 | 0.13 | 6 | 209 | |
| 10 CSL | 12.96 | 12.96 | 33.335 | 25.112 | 284.4 | 0.029 | | | | | | | | | | 10 | 200 | |
| 10 | 12.96 | 12.96 | 33.336 | 25.113 | 284.3 | 0.029 | 5.99 | 100.0 | 5.9 | 0.61 | 3.5 | 0.12 | 0.07 | 0.90 | 0.30 | 10 | 208 | |
| 11 | 12.95 | 12.95 | 33.342 | 25.119 | 283.7 | 0.031 | 5.96 | 99.4 | 5.8 | 0.63 | 3.5 | 0.12 | 0.07 | 0.84 | 0.33 | 11 | 207 | |
| 20 | 12.87 | 12.87 | 33.354 | 25.145 | 281.5 | 0.057 | 5.80 | 96.6 | 6.6 | 0.69 | 4.5 | 0.16 | 0.08 | 0.93 | 0.36 | 20 | 206 | |
| 30 ISL | 12.86 | D 12.86 | 33.357 D | 25.149 | 281.4 | 0.085 | 5.77 | 96.1 | 6.9 | 0.69 | 4.8 | 0.17 | 0.08 | 0.87 | 0.36 | 30 | | |
| 31 | 12.87 | 12.87 | 33.362 | 25.151 | 281.2 | 0.088 | 5.77 | 96.1 | 6.9 | 0.69 | 4.8 | 0.17 | 0.08 | 0.86 | 0.36 | 31 | 205 | |
| 41 | 12.74 | 12.73 | 33.389 | 25.198 | 277.0 | 0.116 | 5.50 | 91.4 | 7.9 | 0.78 | 6.2 | 0.21 | 0.08 | 0.68 | 0.39 | 41 | 204 | |
| 50 | 12.44 | 12.43 | 33.406 | 25.269 | 270.5 | 0.140 | 5.24 | 86.5 | 9.2 | 0.91 | 8.1 | 0.21 | 0.08 | 0.46 | 0.32 | 50 | 203 | |
| 61 | 11.95 | 11.94 | 33.446 | 25.394 | 258.9 | 0.170 | 4.77 | 78.0 | 11.8 | 1.11 | 11.3 | 0.18 | 0.01 | 0.27 | 0.20 | 61 | 202 | |
| 72 | 11.30 | 11.29 | 33.535 | 25.583 | 241.1 | 0.197 | 4.21 | 67.9 | 15.6 | 1.36 | 15.1 | 0.13 | 0.02 | 0.16 | 0.20 | 72 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SWA | DYN | HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | 1016.3 mb | 14.5 | C | 12.9 | C | ug/l | ug/l | db | |
| 0 ISL | 13.30 | 13.30 | 33.346 | 25.053 | 289.8 | 0.000 | 6.18 | 103.9 | 5.4 | 0.48 | 1.9 | 0.06 | 0.00 | 1.10 | 0.35 | 0 | | |
| 2 | 13.30 | 13.30 | 33.346 | 25.053 | 289.8 | 0.006 | 6.18 | 103.9 | 5.4 | 0.48 | 1.9 | 0.06 | 0.00 | 1.10 | 0.35 | 2 | 221 | |
| 9 | 13.27 | 13.27 | 33.344 | 25.057 | 289.6 | 0.026 | | | | | | | | | | 9 | 220 | |
| 10 | 13.24 | 13.24 | 33.344 | 25.063 | 289.0 | 0.029 | 6.14 | 103.1 | 5.4 | 0.50 | 2.3 | 0.07 | 0.01 | 1.08 | 0.44 | 10 | 219 | |
| 20 | 13.04 | 13.04 | 33.342 | 25.102 | 285.6 | 0.058 | 5.95 | 99.5 | 5.8 | 0.59 | 3.5 | 0.17 | 0.06 | 0.83 | 0.46 | 20 | 218 | |
| 30 | 12.97 | 12.97 | 33.341 | 25.115 | 284.6 | 0.086 | 5.85 | 97.6 | 6.2 | 0.61 | 3.9 | 0.20 | 0.09 | 0.6 | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 32 59.1 N | 120 20.8 W | 15/01/09 | 1657 | UTC | 744 m | 340 | 04 kn | 300 02 07 | 0 | 1017.4 mb | 14.8 C | 13.0 C | 10m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.10 | 13.10 | 33.337 | 25.086 | 286.6 | 0.000 | 6.31 | 105.6 | 5.3 | 0.53 | 2.6 | 0.08 | 0.04 | 1.38 | 0.24 | 0 | |
| 1 A | 13.10 | 13.10 | 33.337 | 25.086 | 286.6 | 0.003 | 6.31 | 105.6 | 5.3 | 0.53 | 2.6 | 0.08 | 0.04 | 1.38 | 0.24 | 1 224 | |
| 6 A | 13.05 | 13.05 | 33.336 | 25.095 | 285.9 | 0.017 | 6.32 | 105.7 | 5.4 | 0.54 | 2.6 | 0.08 | 0.05 | 1.47 | 0.21 | 6 223 | |
| 10 | 12.91 | 12.91 | 33.335 | 25.122 | 283.4 | 0.029 | 6.26 | 104.4 | 5.5 | 0.57 | 2.8 | 0.10 | 0.06 | 1.24 | 0.24 | 10 221 | |
| 10 | 12.88 | 12.88 | 33.339 | 25.131 | 282.6 | 0.029 | | | 5.4 | 0.54 | 2.5 | 0.08 | 0.06 | | | 10 222 | |
| 13 A | 12.82 | 12.82 | 33.334 | 25.139 | 281.9 | 0.037 | 6.19 | 103.0 | 5.6 | 0.59 | 3.2 | 0.11 | 0.08 | 1.04 | 0.22 | 13 220 | |
| 19 A | 12.80 | 12.80 | 33.337 | 25.145 | 281.5 | 0.054 | 6.14 | 102.1 | 5.6 | 0.60 | 3.5 | 0.13 | 0.11 | 0.74 | 0.17 | 19 219 | |
| 20 ISL | 12.80 D | 12.80 | 33.332 D | 25.141 | 281.8 | 0.057 | 6.13 | 101.9 | 5.6 | 0.60 | 3.5 | 0.13 | 0.11 | 0.73 | 0.17 | 20 | |
| 28 A | 12.70 | 12.70 | 33.337 | 25.165 | 279.8 | 0.079 | 6.06 | 100.6 | 5.8 | 0.62 | 3.8 | 0.16 | 0.15 | 0.69 | 0.18 | 28 218 | |
| 30 ISL | 12.70 D | 12.70 | 33.335 D | 25.163 | 280.0 | 0.085 | 6.05 | 100.4 | 5.8 | 0.62 | 3.8 | 0.16 | 0.16 | 0.68 | 0.20 | 30 | |
| 36 | 12.69 | 12.69 | 33.339 | 25.169 | 279.7 | 0.102 | 6.00 | 99.6 | 5.9 | 0.64 | 4.0 | 0.18 | 0.22 | 0.66 | 0.24 | 36 217 | |
| 42 A | 12.70 | 12.69 | 33.342 | 25.169 | 279.8 | 0.118 | 5.93 | 98.4 | 6.0 | 0.66 | 4.3 | 0.20 | 0.42 | 0.30 | 0.17 | 42 216 | |
| 50 ISL | 12.60 D | 12.59 | 33.335 D | 25.183 | 278.6 | 0.141 | 5.70 | 94.4 | 7.2 | 0.78 | 6.0 | 0.24 | 0.28 | 0.29 | 0.20 | 50 | |
| 51 | 12.51 | 12.50 | 33.341 | 25.205 | 276.6 | 0.144 | 5.67 | 93.7 | 7.4 | 0.79 | 6.2 | 0.24 | 0.24 | 0.29 | 0.20 | 51 215 | |
| 60 | 10.95 | 10.94 | 33.416 | 25.553 | 243.6 | 0.167 | 4.36 | 69.7 | 15.1 | 1.40 | 16.3 | 0.03 | 0.00 | 0.11 | 0.13 | 60 214 | |
| 69 | 10.42 | 10.41 | 33.518 | 25.725 | 227.3 | 0.188 | 4.01 | 63.4 | 18.2 | 1.58 | 19.1 | 0.01 | 0.01 | 0.05 | 0.08 | 69 213 | |
| 75 ISL | 10.19 D | 10.18 | 33.592 D | 25.822 | 218.2 | 0.201 | 3.91 | 61.6 | 19.2 | 1.63 | 19.9 | 0.01 | 0.01 | 0.04 | 0.08 | 75 | |
| 85 | 10.13 | 10.12 | 33.607 | 25.844 | 216.3 | 0.223 | 3.74 | 58.8 | 20.7 | 1.70 | 20.8 | 0.01 | 0.00 | 0.03 | 0.08 | 85 212 | |
| 100 | 9.72 | 9.71 | 33.797 | 26.062 | 196.0 | 0.254 | 3.09 | 48.2 | 25.6 | 1.90 | 23.9 | 0.01 | 0.00 | 0.01 | 0.06 | 101 211 | |
| 119 | 9.58 | 9.57 | 33.848 | 26.125 | 190.3 | 0.291 | 2.85 | 44.3 | 27.3 | 1.98 | 25.0 | 0.00 | 0.00 | 0.00 | 0.05 | 120 210 | |
| 125 ISL | 9.49 D | 9.48 | 33.874 D | 26.160 | 187.1 | 0.302 | 2.79 | 43.3 | 27.9 | 2.01 | 25.4 | 0.00 | 0.00 | 0.00 | 0.05 | 126 | |
| 138 | 9.35 | 9.33 | 33.903 | 26.206 | 183.0 | 0.326 | 2.67 | 41.3 | 29.2 | 2.06 | 26.3 | 0.00 | 0.01 | 0.00 | 0.05 | 139 209 | |
| 150 ISL | 9.15 D | 9.13 | 33.934 D | 26.262 | 177.8 | 0.348 | 2.58 | 39.8 | 30.4 | 2.09 | 26.9 | 0.00 | 0.01 | 0.00 | 0.05 | 151 | |
| 168 | 8.95 | 8.93 | 33.970 | 26.323 | 172.4 | 0.379 | 2.48 | 38.1 | 32.4 | 2.13 | 27.5 | 0.00 | 0.00 | 0.00 | 0.05 | 169 208 | |
| 200 | 8.32 | 8.30 | 34.022 | 26.461 | 159.7 | 0.433 | 2.47 | 37.4 | 36.8 | 2.16 | 28.4 | 0.01 | 0.01 | 0.00 | 0.02 | 201 207 | |
| 228 | 8.02 | 8.00 | 34.086 | 26.557 | 151.0 | 0.476 | 1.75 | 26.3 | 43.8 | 2.44 | 31.6 | 0.01 | 0.02 | | | 229 206 | |
| 250 ISL | 8.08 D | 8.05 | 34.149 D | 26.598 | 147.6 | 0.509 | 1.30 | 19.6 | 47.1 | 2.60 | 32.7 | 0.01 | 0.02 | | | 251 | |
| 268 | 8.05 | 8.02 | 34.194 | 26.638 | 144.1 | 0.535 | 1.02 | 15.4 | 49.1 | 2.70 | 33.1 | 0.01 | 0.01 | | | 270 205 | |
| 300 ISL | 7.85 D | 7.82 | 34.227 D | 26.694 | 139.3 | 0.580 | 0.83 | 12.4 | 52.5 | 2.79 | 33.7 | 0.00 | 0.00 | | | 302 | |
| 319 | 7.72 | 7.69 | 34.230 | 26.715 | 137.5 | 0.607 | 0.80 | 12.0 | 54.7 | 2.82 | 34.1 | 0.00 | 0.00 | | | 321 204 | |
| 380 | 6.89 | 6.85 | 34.236 | 26.837 | 126.3 | 0.687 | 0.63 | 9.2 | 65.2 | 2.99 | 36.6 | 0.00 | 0.00 | | | 382 203 | |
| 400 ISL | 6.60 D | 6.56 | 34.238 D | 26.878 | 122.6 | 0.712 | 0.57 | 8.3 | 68.5 | 3.03 | 37.3 | 0.00 | 0.00 | | | 403 | |
| 438 | 6.21 | 6.17 | 34.242 | 26.932 | 117.6 | 0.758 | 0.48 | 6.9 | 74.2 | 3.09 | 38.5 | 0.00 | 0.00 | | | 441 202 | |
| 500 ISL | 5.82 D | 5.78 | 34.267 D | 27.002 | 111.5 | 0.829 | 0.38 | 5.4 | 81.0 | 3.17 | 39.8 | 0.00 | 0.00 | | | 503 | |
| 512 | 5.76 | 5.72 | 34.278 | 27.018 | 110.1 | 0.842 | 0.36 | 5.1 | 82.3 | 3.19 | 40.0 | 0.00 | 0.00 | | | 516 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS;PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|-----------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 32 39.4 N | 121 1.8 W | 15/01/09 | 2205 | UTC | 3791 m | 340 | 06 kn | 330 01 06 | 0 | 1016.1 mb | 14.9 C | 13.6 C | 16m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.40 | 13.40 | 33.185 | 24.908 | 303.5 | 0.000 | 6.18 | 104.0 | 4.7 | 0.55 | 2.6 | 0.10 | 0.02 | 0.70 | 0.11 | 0 | |
| 2 | 13.40 | 13.40 | 33.185 | 24.908 | 303.6 | 0.006 | 6.18 | 104.0 | 4.7 | 0.55 | 2.6 | 0.10 | 0.02 | 0.70 | 0.11 | 2 222 | |
| 10 | 13.10 | 13.10 | 33.188 | 24.970 | 297.8 | 0.030 | 6.22 | 104.0 | 4.4 | 0.55 | 2.5 | 0.10 | 0.02 | 0.80 | 0.13 | 10 221 | |
| 10 | 13.08 | 13.08 | 33.188 | 24.974 | 297.5 | 0.030 | | | | | | | | | | 10 220 | |
| 16 | 12.92 | 12.92 | 33.182 | 25.002 | 295.0 | 0.048 | 6.28 | 104.6 | 4.5 | 0.55 | 2.6 | 0.11 | 0.04 | 0.88 | 0.15 | 16 219 | |
| 19 | 12.84 | 12.84 | 33.174 | 25.011 | 294.2 | 0.057 | 6.20 | 103.1 | 4.6 | 0.56 | 2.7 | 0.12 | 0.02 | 0.90 | 0.17 | 19 218 | |
| 20 ISL | 12.80 D | 12.80 | 33.168 D | 25.014 | 293.9 | 0.060 | 6.18 | 102.7 | 4.6 | 0.57 | 2.8 | 0.13 | 0.02 | 0.88 | 0.17 | 20 | |
| 30 | 12.60 | 12.60 | 33.160 | 25.047 | 291.1 | 0.089 | 6.02 | 99.6 | 4.7 | 0.62 | 3.4 | 0.18 | 0.11 | 0.61 | 0.20 | 30 217 | |
| 40 | 12.51 | 12.50 | 33.171 | 25.073 | 288.8 | 0.118 | 5.95 | 98.2 | 4.9 | 0.65 | 3.9 | 0.21 | 0.20 | 0.38 | 0.17 | 40 216 | |
| 49 | 12.43 | 12.42 | 33.180 | 25.096 | 286.9 | 0.144 | 5.98 | 98.6 | 5.3 | 0.65 | 4.2 | 0.21 | 0.19 | 0.38 | 0.19 | 49 215 | |
| 50 ISL | 12.43 D | 12.42 | 33.178 D | 25.094 | 287.1 | 0.147 | 5.98 | 98.6 | 5.3 | 0.65 | 4.2 | 0.21 | 0.19 | 0.38 | 0.19 | 50 | |
| 60 | 12.36 | 12.35 | 33.188 | 25.116 | 285.3 | 0.175 | 5.96 | 98.1 | 5.5 | 0.66 | 4.4 | 0.21 | 0.21 | 0.38 | 0.20 | 60 214 | |
| 70 | 12.34 | 12.33 | 33.215 | 25.141 | 283.2 | 0.204 | 5.96 | 98.1 | 5.7 | 0.69 | 4.6 | 0.23 | 0.21 | 0.36 | 0.18 | 70 213 | |
| 75 ISL | 12.13 D | 12.12 | 33.206 D | 25.174 | 280.1 | 0.218 | 5.84 | 95.7 | 6.4 | 0.75 | 5.6 | 0.22 | 0.15 | 0.29 | 0.16 | 75 | |
| 85 | 11.49 | 11.48 | 33.188 | 25.279 | 270.3 | 0.245 | 5.45 | 88.1 | 8.6 | 0.92 | 8.8 | 0.17 | 0.02 | 0.14 | 0.12 | 85 212 | |
| 100 | 10.76 | 10.75 | 33.299 | 25.496 | 249.9 | 0.284 | 4.68 | 74.5 | 13.4 | 1.27 | 14.8 | 0.02 | 0.00 | 0.05 | 0.07 | 100 211 | |
| 119 | 10.09 | 10.08 | 33.552 | 25.809 | 220.4 | 0.329 | 4.08 | 64.1 | 18.9 | 1.56 | 19.3 | 0.01 | 0.00 | 0.01 | 0.04 | 120 210 | |
| 125 ISL | 9.83 D | 9.82 | 33.653 D | 25.931 | 208.9 | 0.342 | 3.75 | 58.6 | 20.9 | 1.67 | 20.8 | 0.01 | 0.00 | 0.01 | 0.04 | 126 | |
| 139 | 9.84 | 9.82 | 33.818 | 26.059 | 197.1 | 0.370 | 2.97 | 46.5 | 25.3 | 1.89 | 23.9 | 0.00 | 0.00 | 0.01 | 0.04 | 140 209 | |
| 15 | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | pct | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.16 | 15.16 | 33.170 | 24.527 | 339.8 | 0.000 | 5.92 | 103.2 | 2.1 | 0.36 | 0.1 | 0.00 | 0.03 | 0.18 | 0.09 | 0 | |
| 1 | 15.16 | 15.16 | 33.170 | 24.527 | 339.8 | 0.003 | 5.92 | 103.2 | 2.1 | 0.36 | 0.1 | 0.00 | 0.03 | 0.18 | 0.09 | 1 | 222 |
| 10 ISL | 14.98 | 14.98 | 33.168 | D 24.565 | 336.5 | 0.034 | 5.94 | 103.2 | 2.1 | 0.36 | 0.1 | 0.00 | 0.02 | 0.21 | 0.10 | 10 | |
| 10 | 14.95 | 14.95 | 33.161 | 24.566 | 336.4 | 0.034 | | | | | | | | | | 10 | 221 |
| 11 | 14.95 | 14.95 | 33.167 | 24.571 | 335.9 | 0.037 | 5.94 | 103.2 | 2.1 | 0.36 | 0.1 | 0.00 | 0.02 | 0.21 | 0.10 | 11 | 220 |
| 20 ISL | 14.80 | D 14.80 | 33.135 | D 24.579 | 335.5 | 0.067 | 5.92 | 102.5 | 2.2 | 0.36 | 0.0 | 0.00 | 0.02 | 0.32 | 0.03 | 20 | |
| 21 | 14.77 | 14.77 | 33.140 | 24.589 | 334.5 | 0.071 | 5.92 | 102.4 | 2.2 | 0.36 | 0.0 | 0.00 | 0.02 | 0.34 | 0.03 | 21 | 219 |
| 30 ISL | 13.96 | D 13.96 | 33.133 | D 24.754 | 319.0 | 0.100 | 6.01 | 102.3 | 2.5 | 0.39 | 0.3 | 0.04 | 0.03 | 0.71 | 0.25 | 30 | |
| 31 | 13.97 | 13.97 | 33.140 | 24.758 | 318.7 | 0.103 | 6.02 | 102.5 | 2.5 | 0.40 | 0.3 | 0.05 | 0.03 | 0.74 | 0.27 | 31 | 218 |
| 36 | 13.75 | 13.74 | 33.174 | 24.829 | 312.0 | 0.119 | 5.95 | 100.8 | 2.9 | 0.44 | 1.0 | 0.11 | 0.04 | 0.68 | 0.22 | 36 | 217 |
| 40 | 13.63 | 13.62 | 33.197 | 24.872 | 308.1 | 0.132 | 5.90 | 99.7 | 3.1 | 0.47 | 1.3 | 0.13 | 0.06 | 0.68 | 0.14 | 40 | 216 |
| 50 ISL | 13.07 | D 13.06 | 33.136 | D 24.937 | 302.1 | 0.162 | 5.81 | 97.0 | 3.8 | 0.55 | 2.5 | 0.16 | 0.16 | 0.35 | 0.18 | 50 | |
| 51 | 13.04 | 13.03 | 33.137 | 24.944 | 301.5 | 0.165 | 5.80 | 96.8 | 3.9 | 0.56 | 2.6 | 0.16 | 0.16 | 0.31 | 0.18 | 51 | 215 |
| 60 | 12.15 | 12.14 | 33.024 | 25.028 | 293.6 | 0.192 | 5.71 | 93.5 | 4.5 | 0.64 | 4.0 | 0.10 | 0.03 | 0.14 | 0.13 | 60 | 214 |
| 71 | 11.46 | 11.45 | 32.997 | 25.153 | 283.6 | 0.224 | 5.57 | 89.8 | 6.0 | 0.77 | 6.2 | 0.03 | 0.01 | 0.09 | 0.09 | 71 | 213 |
| 75 ISL | 11.23 | D 11.22 | 33.059 | D 25.225 | 275.1 | 0.235 | 5.31 | 85.3 | 8.1 | 0.92 | 8.7 | 0.02 | 0.01 | 0.08 | 0.09 | 75 | |
| 86 | 10.83 | 10.82 | 33.324 | 25.503 | 248.9 | 0.264 | 4.58 | 73.0 | 14.0 | 1.34 | 15.4 | 0.01 | 0.00 | 0.06 | 0.09 | 86 | 212 |
| 100 ISL | 9.97 | D 9.96 | 33.438 | D 25.740 | 226.6 | 0.297 | 4.46 | 69.8 | 16.3 | 1.41 | 17.1 | 0.01 | 0.00 | 0.02 | 0.05 | 100 | |
| 101 | 9.97 | 9.96 | 33.445 | 25.745 | 226.1 | 0.299 | 4.46 | 69.8 | 16.4 | 1.42 | 17.1 | 0.01 | 0.00 | 0.02 | 0.05 | 101 | 211 |
| 121 | 9.81 | 9.80 | 33.675 | 25.952 | 206.8 | 0.342 | 3.67 | 57.3 | 21.8 | 1.71 | 21.7 | 0.00 | 0.00 | 0.01 | 0.04 | 122 | 210 |
| 125 ISL | 9.73 | D 9.72 | 33.685 | D 25.973 | 204.9 | 0.351 | 3.68 | 57.4 | 22.0 | 1.70 | 21.7 | 0.00 | 0.00 | 0.01 | 0.04 | 126 | |
| 141 | 9.42 | 9.40 | 33.754 | 26.078 | 195.2 | 0.383 | 3.72 | 57.6 | 22.8 | 1.68 | 21.8 | 0.01 | 0.00 | 0.00 | 0.02 | 142 | 209 |
| 150 ISL | 9.24 | D 9.22 | 33.814 | D 26.154 | 188.1 | 0.400 | 3.49 | 53.9 | 24.8 | 1.76 | 22.9 | 0.01 | 0.00 | 0.00 | 0.02 | 151 | |
| 171 | 8.88 | 8.86 | 33.949 | 26.317 | 173.0 | 0.438 | 2.83 | 43.4 | 30.4 | 1.99 | 26.1 | 0.00 | 0.00 | 0.00 | 0.02 | 172 | 208 |
| 200 ISL | 8.36 | D 8.34 | 34.002 | D 26.439 | 161.7 | 0.486 | 2.44 | 37.0 | 35.9 | 2.16 | 28.7 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 201 | 8.34 | 8.32 | 34.005 | 26.445 | 161.2 | 0.488 | 2.43 | 36.8 | 36.1 | 2.16 | 28.8 | 0.00 | 0.00 | 0.00 | 0.02 | 202 | 207 |
| 231 | 7.88 | 7.86 | 34.028 | 26.532 | 153.3 | 0.535 | 2.16 | 32.4 | 41.5 | 2.30 | 30.7 | 0.00 | 0.01 | 0.00 | 0.01 | 232 | 206 |
| 250 ISL | 7.68 | D 7.66 | 34.038 | D 26.569 | 150.0 | 0.564 | 1.96 | 29.2 | 45.2 | 2.39 | 31.8 | 0.00 | 0.01 | | 251 | | |
| 271 | 7.31 | 7.28 | 34.056 | 26.636 | 143.8 | 0.595 | 1.74 | 25.7 | 49.3 | 2.50 | 33.0 | 0.00 | 0.00 | | 273 | 205 | |
| 300 ISL | 7.05 | D 7.02 | 34.072 | D 26.685 | 139.5 | 0.636 | 1.45 | 21.3 | 54.3 | 2.64 | 34.6 | 0.00 | 0.00 | | 302 | | |
| 321 | 6.80 | 6.77 | 34.086 | 26.730 | 135.4 | 0.665 | 1.27 | 18.6 | 57.8 | 2.73 | 35.7 | 0.00 | 0.00 | | 323 | 204 | |
| 381 | 6.26 | 6.23 | 34.131 | 26.837 | 125.7 | 0.743 | 0.92 | 13.3 | 67.5 | 2.92 | 37.7 | 0.00 | 0.00 | | 383 | 203 | |
| 400 ISL | 6.11 | D 6.07 | 34.146 | D 26.869 | 122.9 | 0.767 | 0.79 | 11.4 | 70.1 | 2.97 | 38.2 | 0.00 | 0.00 | | 403 | | |
| 441 | 5.99 | 5.95 | 34.207 | 26.932 | 117.4 | 0.816 | 0.54 | 7.8 | 75.2 | 3.08 | 39.2 | 0.00 | 0.00 | | 444 | 202 | |
| 500 ISL | 5.73 | D 5.69 | 34.253 | D 27.001 | 111.4 | 0.883 | 0.37 | 5.3 | 82.2 | 3.19 | 40.3 | 0.00 | 0.00 | | 503 | | |
| 519 | 5.60 | 5.56 | 34.272 | 27.033 | 108.6 | 0.904 | 0.32 | 4.6 | 84.5 | 3.22 | 40.7 | 0.00 | 0.00 | | 523 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | pct | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.22 | 14.22 | 33.147 | 24.710 | 322.4 | 0.000 | 6.06 | 103.7 | 2.6 | 0.39 | 0.1 | 0.00 | 0.01 | 0.52 | 0.13 | 0 | |
| 2 | 14.22 | 14.22 | 33.147 | 24.710 | 322.4 | 0.006 | 6.06 | 103.7 | 2.6 | 0.39 | 0.1 | 0.00 | 0.01 | 0.52 | 0.13 | 2 | 221 |
| 10 ISL | 14.21 | 14.21 | 33.159 | 24.722 | 321.5 | 0.032 | 6.07 | 103.8 | 2.5 | 0.38 | 0.1 | 0.00 | 0.05 | 0.51 | 0.13 | 10 | 220 |
| 10 | 14.22 | 14.22 | 33.149 | 24.712 | 322.5 | 0.032 | | | | | | | | | | 10 | 220 |
| 20 ISL | 13.94 | 13.94 | 33.190 | 24.802 | 314.2 | 0.064 | 6.04 | 102.8 | 2.7 | 0.39 | 0.2 | 0.02 | 0.04 | 0.97 | 0.29 | 20 | 218 |
| 30 ISL | 13.97 | 13.97 | 33.215 | 24.816 | 313.2 | 0.095 | 5.99 | 102.0 | 2.7 | 0.40 | 0.3 | 0.04 | 0.06 | 0.72 | 0.32 | 30 | 217 |
| 40 | 13.95 | 13.94 | 33.223 | 24.826 | 312.4 | 0.127 | 5.97 | 101.6 | 2.5 | 0.41 | 0.5 | 0.05 | 0.07 | 0.57 | 0.27 | 40 | 216 |
| 50 | 13.69 | 13.68 | 33.224 | 24.881 | 307.5 | 0.158 | 5.78 | 97.8 | 3.2 | 0.50 | 1.8 | 0.13 | 0.20 | 0.25 | 0.14 | 50 | 215 |
| 60 | 12.04 | 12.03 | 33.132 | 25.133 | 283.6 | 0.187 | 5.44 | 88.9 | 7.0 | 0.86 | 7.6 | 0.04 | 0.01 | 0.12 | 0.13 | 60 | 214 |
| 70 | 11.03 | 11.02 | 33.150 | 25.332 | 264.8 | 0.215 | 5.06 | 80.9 | 10.6 | 1.13 | 12.0 | 0.01 | 0.00 | 0.08 | 0.11 | 70 | 213 |
| 75 ISL | 10.96 | D 10.95 | 33.200 | D 25.383 | 260.0 | 0.228 | 4.91 | 78.4 | 11.6 | 1.21 | 13.3 | 0.01 | 0.01 | 0.08 | 0.11 | 75 | |
| 84 | 11.24 | 11.23 | 33.390 | 25.481 | 251.0 | 0.251 | 4.68 | 75.3 | 12.9 | 1.30 | 14.9 | 0.01 | 0.02 | 0.08 | 0.11 | 84 | 212 |
| 100 ISL | 10.61 | D 10.60 | 33.508 | D 25.685 | 231.9 | 0.289 | 4.30 | 68.3 | 16.4 | 1.48 | 17.9 | 0.01 | 0.00 | 0.04 | 0.06 | 100 | |
| 101 | 10.61 | 10.60 | 33.511 | 25.687 | 231.7 | 0.292 | 4.27 | 67.8 | 16.7 | 1.49 | 18.1 | 0.01 | 0.00 | 0.04 | 0.06 | 101 | 211 |
| 119 | 9.85 | 9.84 | 33.685 | 25.953 | 206.7 | 0.331 | 3.61 | 56.5 | 12.6 | 1.76 | 22.4 | 0.00 | 0.02 | 0.01 | 0.03 | 120 | 210 |
| 125 ISL | 9.64 | D 9.63 | 33.740 | D 26.031 | 199.4 | 0.343 | 3.44 | 53.6 | 23.9 | 1.82 | 23.3 | 0.00 | 0.02 | 0.01 | 0.03 | 126 | |
| 139 | 9.39 | 9.37 | 33.817 | 26.132 | 190.0 | 0.371 | 3.12 | 48.3 | 26.5 | 1.91 | 24.9 | 0.00 | 0.00 | 0.01 | 0.03 | 140 | 209 |
| 150 ISL | 9.18 | D 9.16 | 33.885 | D 26.219 | 181.9 | 0.391 | 2.93 | 45.2 | 28.5 | 1.97 | 25.8 | 0.00 | 0.00 | 0.01 | 0.03 | 151 | |
| 169 | 8.76 | 8.74 | 33.951 | 26.338 | 171.0 | 0.425 | 2.68 | 41.0 | 31.9 | 2.05 | 27.0 | 0.00 | 0.00 | 0.00 | 0.02 | 170 | 208 |
| 200 ISL | 8.28 | D 8.26 | 34.010 | D 26.458 | 160.0 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|-----------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|------|---------|
| 31 39.5 N | 123 5.1 W | 16/01/09 | 1735 | UTC | 4211 m | 180 | 05 kn | 360 02 05 | 2 | 1020.2 mb | 14.8 C | 12.0 C | 15m | 4/8 | ST | |
| 0 ISL | 14.49 | 14.49 | 33.273 | 24.751 | 318.5 | 0.000 | 5.96 | 102.6 | 2.2 | 0.37 | 0.1 | 0.01 | 0.02 | 0.51 | 0.13 | 0 |
| 1 A | 14.49 | 14.49 | 33.273 | 24.751 | 318.5 | 0.003 | 5.96 | 102.6 | 2.2 | 0.37 | 0.1 | 0.01 | 0.02 | 0.51 | 0.13 | 1 221 |
| 8 A | 14.44 | 14.44 | 33.275 | 24.763 | 317.6 | 0.025 | 5.97 | 102.7 | 2.2 | 0.38 | 0.1 | 0.01 | 0.01 | 0.54 | 0.16 | 8 219 |
| 8 | 14.44 | 14.44 | 33.274 | 24.762 | 317.6 | 0.025 | | | | | | | | | | 8 220 |
| 10 ISL | 14.40 D | 14.40 | 33.272 D | 24.769 | 317.0 | 0.032 | 5.97 | 102.6 | 2.2 | 0.38 | 0.1 | 0.01 | 0.01 | 0.54 | 0.17 | 10 |
| 19 A | 14.26 | 14.26 | 33.279 | 24.804 | 313.9 | 0.060 | 5.96 | 102.1 | 2.3 | 0.37 | 0.2 | 0.02 | 0.01 | 0.56 | 0.19 | 19 218 |
| 20 ISL | 14.26 D | 14.26 | 33.268 D | 24.796 | 314.8 | 0.063 | 5.96 | 102.1 | 2.3 | 0.37 | 0.2 | 0.02 | 0.01 | 0.56 | 0.19 | 20 |
| 30 ISL | 14.24 D | 14.24 | 33.269 D | 24.801 | 314.6 | 0.095 | 5.94 | 101.7 | 2.3 | 0.39 | 0.3 | 0.03 | 0.02 | 0.52 | 0.20 | 30 |
| 31 A | 14.24 | 14.24 | 33.272 | 24.804 | 314.4 | 0.098 | 5.94 | 101.7 | 2.3 | 0.39 | 0.3 | 0.03 | 0.02 | 0.51 | 0.20 | 31 217 |
| 41 A | 14.21 | 14.20 | 33.273 | 24.811 | 314.0 | 0.129 | 5.91 | 101.2 | 2.3 | 0.40 | 0.4 | 0.04 | 0.01 | 0.49 | 0.24 | 41 216 |
| 50 ISL | 14.17 D | 14.16 | 33.266 D | 24.814 | 313.9 | 0.158 | 5.88 | 100.6 | 2.4 | 0.41 | 0.5 | 0.05 | 0.08 | 0.43 | 0.21 | 50 |
| 53 | 14.17 | 14.16 | 33.280 | 24.825 | 313.0 | 0.167 | 5.87 | 100.4 | 2.5 | 0.41 | 0.6 | 0.05 | 0.10 | 0.41 | 0.20 | 53 215 |
| 64 A | 13.94 | 13.93 | 33.254 | 24.853 | 310.6 | 0.201 | 5.87 | 99.9 | 2.6 | 0.44 | 0.9 | 0.07 | 0.11 | 0.34 | 0.21 | 64 214 |
| 74 | 12.29 | 12.28 | 33.100 | 25.061 | 290.8 | 0.231 | 5.57 | 91.5 | 5.6 | 0.76 | 5.9 | 0.06 | 0.00 | 0.16 | 0.19 | 74 213 |
| 75 ISL | 12.14 D | 12.13 | 33.082 D | 25.076 | 289.4 | 0.234 | 5.53 | 90.5 | 6.0 | 0.79 | 6.4 | 0.06 | 0.00 | 0.15 | 0.19 | 75 |
| 84 | 11.00 | 10.99 | 33.116 | 25.311 | 267.1 | 0.259 | 5.19 | 82.9 | 9.4 | 1.05 | 10.8 | 0.01 | 0.00 | 0.07 | 0.15 | 84 212 |
| 100 | 10.59 | 10.58 | 33.336 | 25.554 | 244.3 | 0.300 | 4.71 | 74.7 | 13.3 | 1.27 | 14.7 | 0.01 | 0.00 | 0.03 | 0.06 | 100 211 |
| 119 | 10.00 | 9.99 | 33.534 | 25.810 | 220.3 | 0.344 | 4.20 | 65.8 | 18.1 | 1.52 | 18.9 | 0.00 | 0.00 | 0.01 | 0.03 | 120 210 |
| 125 ISL | 9.83 D | 9.82 | 33.606 D | 25.895 | 212.4 | 0.357 | 4.00 | 62.5 | 19.9 | 1.61 | 20.3 | 0.00 | 0.00 | 0.01 | 0.03 | 126 |
| 138 | 9.45 | 9.43 | 33.731 | 26.055 | 197.3 | 0.384 | 3.58 | 55.5 | 23.6 | 1.78 | 23.0 | 0.00 | 0.00 | 0.00 | 0.02 | 139 209 |
| 150 ISL | 9.30 D | 9.28 | 33.791 D | 26.126 | 190.7 | 0.407 | 3.26 | 50.4 | 1.88 | 24.6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 151 |
| 168 | 8.92 | 8.90 | 33.908 | 26.279 | 176.6 | 0.440 | 2.89 | 44.3 | 29.6 | 1.98 | 26.1 | 0.00 | 0.00 | 0.00 | 0.02 | 169 208 |
| 200 | 8.52 | 8.50 | 33.987 | 26.403 | 165.2 | 0.495 | 2.62 | 39.8 | 34.1 | 2.09 | 27.9 | 0.00 | 0.00 | 0.00 | 0.02 | 201 207 |
| 228 | 8.21 | 8.19 | 34.014 | 26.472 | 159.1 | 0.540 | 2.34 | 35.3 | 38.0 | 2.20 | 29.6 | 0.00 | 0.00 | | | 229 206 |
| 250 ISL | 7.99 D | 7.96 | 34.025 D | 26.514 | 155.4 | 0.575 | 2.18 | 32.8 | 40.8 | 2.27 | 30.6 | 0.00 | 0.00 | | | 251 |
| 268 | 7.80 | 7.77 | 34.041 | 26.554 | 151.8 | 0.603 | 2.04 | 30.5 | 43.3 | 2.34 | 31.4 | 0.00 | 0.00 | | | 270 205 |
| 300 ISL | 7.41 D | 7.38 | 34.071 D | 26.634 | 144.6 | 0.650 | 1.64 | 24.3 | 49.0 | 2.52 | 33.4 | 0.00 | 0.00 | | | 302 |
| 320 | 7.21 | 7.18 | 34.090 | 26.677 | 140.7 | 0.679 | 1.38 | 20.4 | 52.8 | 2.63 | 34.7 | 0.00 | 0.00 | | | 322 204 |
| 378 | 6.65 | 6.62 | 34.148 | 26.800 | 129.6 | 0.757 | 0.94 | 13.7 | 62.4 | 2.84 | 36.8 | 0.00 | 0.00 | | | 380 203 |
| 400 ISL | 6.50 D | 6.46 | 34.156 D | 26.826 | 127.3 | 0.785 | 0.81 | 11.8 | 65.2 | 2.90 | 37.4 | 0.00 | 0.00 | | | 403 |
| 437 | 6.28 | 6.24 | 34.189 | 26.881 | 122.4 | 0.831 | 0.64 | 9.2 | 69.7 | 2.99 | 38.4 | 0.00 | 0.00 | | | 440 202 |
| 500 ISL | 5.79 D | 5.75 | 34.223 D | 26.970 | 114.4 | 0.906 | 0.53 | 7.6 | 79.7 | 3.10 | 40.2 | 0.00 | 0.00 | | | 503 |
| 514 | 5.58 | 5.54 | 34.207 | 26.984 | 113.1 | 0.922 | 0.51 | 7.2 | 81.9 | 3.13 | 40.6 | 0.00 | 0.00 | | | 517 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|------|---------|
| 31 19.5 N | 123 44.3 W | 16/01/09 | 2253 | UTC | 4035 m | 300 | 01 kn | 360 02 06 | 2 | 1008.6 mb | 14.8 C | 12.9 C | 30m | 5/8 | ST | |
| 0 ISL | 15.59 | 15.59 | 33.201 | 24.457 | 346.5 | 0.000 | 5.77 | 101.5 | 2.0 | 0.36 | 0.1 | 0.00 | 0.02 | 0.17 | 0.06 | 0 |
| 2 | 15.59 | 15.59 | 33.201 | 24.457 | 346.6 | 0.007 | 5.77 | 101.5 | 2.0 | 0.36 | 0.1 | 0.00 | 0.02 | 0.17 | 0.06 | 2 221 |
| 10 | 15.41 | 15.41 | 33.197 | 24.494 | 343.3 | 0.035 | 5.78 | 101.3 | 1.8 | 0.36 | 0.1 | 0.00 | 0.02 | 0.18 | 0.07 | 10 219 |
| 10 | 15.41 | 15.41 | 33.200 | 24.496 | 343.1 | 0.035 | | | | | | | | | | 10 220 |
| 20 ISL | 15.39 D | 15.39 | 33.194 D | 24.496 | 343.4 | 0.069 | 5.78 | 101.3 | 1.9 | 0.35 | 0.1 | 0.00 | 0.01 | 0.19 | 0.08 | 20 |
| 25 | 15.38 | 15.38 | 33.198 | 24.502 | 343.0 | 0.086 | 5.78 | 101.3 | 2.0 | 0.35 | 0.1 | 0.00 | 0.01 | 0.19 | 0.08 | 25 218 |
| 30 ISL | 15.38 D | 15.38 | 33.193 D | 24.498 | 343.5 | 0.103 | 5.79 | 101.4 | 2.0 | 0.35 | 0.1 | 0.00 | 0.01 | 0.20 | 0.08 | 30 |
| 39 | 15.37 | 15.36 | 33.197 | 24.504 | 343.2 | 0.134 | 5.80 | 101.6 | 2.0 | 0.35 | 0.1 | 0.00 | 0.01 | 0.21 | 0.09 | 39 217 |
| 49 | 15.36 | 15.35 | 33.196 | 24.505 | 343.4 | 0.168 | 5.78 | 101.2 | 1.8 | 0.36 | 0.1 | 0.00 | 0.01 | 0.24 | 0.10 | 49 216 |
| 50 ISL | 15.36 D | 15.35 | 33.191 D | 24.502 | 343.8 | 0.172 | 5.78 | 101.2 | 1.8 | 0.36 | 0.1 | 0.00 | 0.01 | 0.24 | 0.10 | 50 |
| 61 | 15.31 | 15.30 | 33.185 | 24.508 | 343.5 | 0.210 | 5.74 | 100.4 | 1.9 | 0.36 | 0.1 | 0.01 | 0.04 | 0.25 | 0.15 | 61 215 |
| 74 | 14.32 | 14.31 | 33.184 | 24.720 | 323.6 | 0.253 | 5.80 | 99.4 | 2.4 | 0.40 | 0.5 | 0.16 | 0.02 | 0.24 | 0.19 | 74 214 |
| 75 ISL | 14.05 D | 14.04 | 33.153 D | 24.753 | 320.5 | 0.256 | 5.80 | 98.9 | 2.5 | 0.41 | 0.6 | 0.16 | 0.02 | 0.23 | 0.19 | 75 |
| 86 | 12.82 | 12.81 | 33.046 | 24.918 | 304.9 | 0.291 | 5.75 | 95.5 | 3.3 | 0.52 | 2.0 | 0.07 | 0.02 | 0.15 | 0.22 | 86 213 |
| 100 | 12.15 | 12.14 | 33.020 | 25.026 | 294.8 | 0.333 | 5.69 | 93.1 | 4.0 | 0.61 | 3.6 | 0.02 | 0.03 | 0.10 | 0.13 | 100 212 |
| 110 | 11.64 | 11.63 | 33.044 | 25.140 | 284.1 | 0.362 | 5.56 | 90.0 | 5.4 | 0.72 | 5.5 | 0.01 | 0.03 | 0.05 | 0.08 | 110 211 |
| 123 | 11.23 | 11.21 | 33.167 | 25.310 | 268.1 | 0.397 | 5.32 | 85.5 | 8.1 | 0.92 | 9.0 | 0.01 | 0.03 | 0.03 | 0.05 | 124 210 |
| 125 ISL | 11.25 D | 11.23 | 33.167 D | 25.307 | 268.5 | 0.403 | 5.28 | 84.9 | 8.5 | 0.95 | 9.5 | 0.01 | 0.03 | 0.03 | 0.05 | 126 |
| 139 | 10.56 | 10.54 | 33.292 | 25.526 | 247.8 | 0.439 | 4.91 | 77.8 | 11.9 | 1.18 | 13.3 | 0.00 | 0.03 | 0.02 | 0.02 | 140 209 |
| 150 ISL | 10.15 D | 10.13 | 33.432 D | 25.706 | 230.9 | 0.465 | 4.46 | 70.1 | 15.8 | 1.39 | 16.8 | 0.00 | 0.02 | 0.01 | 0.02 | 151 |
| 163 | 9.78 | 9.76 | 33.649 | 25.937 | 209.1 | 0.494 | 3.96 | 61.8 | 20.1 | 1.61 | 20.4 | 0.00 | 0.00 | 0.00 | 0.02 | 164 208 |
| 200 | 9.25 | 9.23 | 33.882 | 26.207 | 184.2 | 0.567 | 3.74 | 57.8 | 23.7 | 1.64 | 21.7 | 0.00 | 0.00 | 0.00 | 0.01 | 201 207 |
| 228 | 8.75 | 8.73 | 33.957 | 26.345 | 171.4 | 0.616 | 3.45 | 52.7 | 28.2 | 1.78 | 24.0 | 0.00 | 0.00 | | | 229 206 |
| 250 ISL | 8.32 D | 8.29 | 33.991 D | 26.438 | 162.8 | 0.653 | 2.97 | 45.0 | 33.1 | 1.97 | 26.7 | 0.00 | 0.00 | | | 251 |
| 268 | 8.09 | 8.06 | 34.010 | 26.487 | 158.3 | 0.682 | 2.54 | 38.2 | 37.6 | 2.15 | 29.0 | 0.00 | 0.00 | | | 269 205 |
| 300 ISL | 7.55 D | 7.52 | 34.044 D | 26.593 | 148.6 | 0.731 | 1.94 | 28.9 | 46.3 | 2.41 | 32.2 | 0.00 | 0.00 | | | 302 |
| 318</ | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.8 32.5

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.90 | 13.90 | 33.336 | 24.923 | 302.1 | 0.000 | 6.64 | 113.0 | 1.6 | 0.33 | 0.2 | 0.08 | 0.08 | 3.63 | 1.05 | 0 | | |
| 2 | 13.90 | 13.90 | 33.336 | 24.923 | 302.2 | 0.006 | 6.64 | 113.0 | 1.6 | 0.33 | 0.2 | 0.08 | 0.08 | 3.63 | 1.05 | 2 | 205 | |
| 5 | 13.90 | 13.90 | 33.331 | 24.919 | 302.6 | 0.015 | 6.66 | 113.3 | 1.6 | 0.34 | 0.2 | 0.10 | 0.08 | 3.73 | 1.56 | 5 | 204 | |
| 10 | 13.86 | 13.86 | 33.341 | 24.935 | 301.2 | 0.030 | 6.58 | 111.9 | 1.8 | 0.35 | 0.2 | 0.07 | 0.10 | 3.52 | 0.88 | 10 | 203 | |
| 16 | 13.47 | 13.47 | 33.350 | 25.022 | 293.1 | 0.048 | 6.08 | 102.5 | 2.1 | 0.46 | 1.3 | 0.10 | 0.48 | 4.94 | 0.79 | 16 | 202 | |
| 20 ISL | 13.34 D | 13.34 | 33.362 D | 25.057 | 289.9 | 0.060 | 5.71 | 96.1 | 3.3 | 0.59 | 2.8 | 0.18 | 0.94 | 3.83 | 0.90 | 20 | | |
| 21 | 13.31 | 13.31 | 33.364 | 25.065 | 289.2 | 0.063 | 5.62 | 94.5 | 3.6 | 0.62 | 3.2 | 0.20 | 1.05 | 3.55 | 0.93 | 21 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 88.5 30.1

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.79 | 13.79 | 33.302 | 24.919 | 302.5 | 0.000 | 6.19 | 105.1 | 2.8 | 0.36 | 0.6 | 0.05 | 0.11 | 1.69 | 0.57 | 0 | | |
| 2 | 13.79 | 13.79 | 33.302 | 24.919 | 302.5 | 0.006 | 6.19 | 105.1 | 2.8 | 0.36 | 0.6 | 0.05 | 0.11 | 1.69 | 0.57 | 2 | 204 | |
| 5 | 13.79 | 13.79 | 33.343 | 24.951 | 299.6 | 0.015 | 6.15 | 104.4 | 2.4 | 0.36 | 0.2 | 0.02 | 0.10 | 2.01 | 0.64 | 5 | 203 | |
| 10 | 13.71 | 13.71 | 33.347 | 24.971 | 297.8 | 0.030 | 6.03 | 102.2 | 2.6 | 0.41 | 0.4 | 0.04 | 0.31 | 2.83 | 0.69 | 10 | 202 | |
| 13 | 13.66 | 13.66 | 33.338 | 24.974 | 297.6 | 0.039 | 5.98 | 101.3 | 2.9 | 0.43 | 0.4 | 0.05 | 0.33 | 2.82 | 0.71 | 13 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 27.7

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.01 | 14.01 | 33.338 | 24.902 | 304.1 | 0.000 | 6.25 | 106.6 | 4.1 | 0.37 | 0.1 | 0.01 | 0.09 | 1.04 | 0.48 | 0 | | |
| 2 | 14.01 | 14.01 | 33.338 | 24.902 | 304.2 | 0.006 | 6.25 | 106.6 | 4.1 | 0.37 | 0.1 | 0.01 | 0.09 | 1.04 | 0.48 | 2 | 205 | |
| 5 | 14.04 | 14.04 | 33.336 | 24.894 | 305.0 | 0.015 | 6.27 | 107.0 | 4.1 | 0.37 | 0.2 | 0.02 | 0.13 | 1.00 | 0.52 | 5 | 204 | |
| 10 | 13.88 | 13.88 | 33.337 | 24.928 | 301.9 | 0.030 | 6.16 | 104.8 | 4.2 | 0.41 | 0.3 | 0.04 | 0.16 | 1.05 | 0.62 | 10 | 203 | |
| 15 | 13.75 | 13.75 | 33.336 | 24.954 | 299.6 | 0.045 | 6.06 | 102.8 | 4.5 | 0.44 | 0.7 | 0.07 | 0.24 | 1.27 | 0.55 | 15 | 202 | |
| 20 | 13.71 | 13.71 | 33.337 | 24.963 | 298.8 | 0.060 | 6.13 | 103.9 | 4.4 | 0.41 | 0.5 | 0.06 | 0.18 | 1.10 | 0.63 | 20 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 28.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | | |
|----------|-----------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.68 | 14.68 | 33.373 | 24.787 | 315.0 | 0.000 | 6.08 | 105.1 | 3.6 | 0.33 | 0.0 | 0.00 | 0.02 | 0.53 | 0.19 | 0 | | |
| 2 | 14.68 | 14.68 | 33.373 | 24.787 | 315.1 | 0.006 | 6.08 | 105.1 | 3.6 | 0.33 | 0.0 | 0.00 | 0.02 | 0.53 | 0.19 | 2 | 208 | |
| 5 | 14.21 | 14.21 | 33.363 | 24.879 | 306.4 | 0.016 | 6.12 | 104.8 | 3.7 | 0.33 | 0.0 | 0.00 | 0.03 | 0.68 | 0.24 | 5 | 207 | |
| 10 | 14.09 | 14.09 | 33.359 | 24.901 | 304.4 | 0.031 | 6.15 | 105.1 | 3.9 | 0.33 | 0.0 | 0.00 | 0.02 | 0.77 | 0.33 | 10 | 206 | |
| 20 | 13.90 | 13.90 | 33.344 | 24.929 | 302.0 | 0.061 | 6.11 | 104.0 | 4.0 | 0.35 | 0.1 | 0.03 | 0.03 | 1.66 | 0.72 | 20 | 205 | |
| 30 | 13.28 | 13.28 | 33.343 | 25.055 | 290.3 | 0.091 | 5.24 | 88.0 | 6.9 | 0.74 | 5.4 | 0.31 | 0.01 | 0.92 | 0.55 | 30 | 204 | |
| 40 | 12.26 | 12.25 | 33.422 | 25.316 | 265.7 | 0.119 | 4.23 | 69.6 | 12.0 | 1.24 | 13.4 | 0.12 | 0.02 | 0.29 | 0.24 | 40 | 203 | |
| 50 | 11.82 | 11.81 | 33.517 | 25.473 | 251.0 | 0.144 | 3.87 | 63.1 | 14.6 | 1.40 | 16.0 | 0.05 | 0.04 | 0.13 | 0.14 | 50 | 202 | |
| 60 | 11.15 | 11.14 | 33.667 | 25.712 | 228.5 | 0.168 | 3.27 | 52.6 | 18.9 | 1.63 | 19.6 | 0.05 | 0.04 | 0.04 | 0.11 | 60 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 30.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|--------|-------|--------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 14.56 | 14.56 | 33.352 | 24.797 | 314.1 | 0.000 | 6.19 | 106.8 | 3.8 | 0.33 | 0.0 | 0.00 | 0.03 | 0.63 | 0.23 | 0 |
| 2 | | 14.56 | 14.56 | 33.352 | 24.797 | 314.2 | 0.006 | 6.19 | 106.8 | 3.8 | 0.33 | 0.0 | 0.00 | 0.03 | 0.63 | 0.23 | 2 220 |
| 10 | | 13.98 | 13.98 | 33.342 | 24.911 | 303.5 | 0.031 | 6.20 | 105.7 | 3.8 | 0.33 | 0.0 | 0.02 | 0.03 | 1.18 | 0.54 | 10 219 |
| 20 | | 13.78 | 13.78 | 33.322 | 24.937 | 301.3 | 0.061 | 5.93 | 100.6 | 4.3 | 0.43 | 1.0 | 0.16 | 0.37 | 0.81 | 0.60 | 20 218 |
| 30 | | 13.38 | 13.38 | 33.337 | 25.030 | 292.7 | 0.091 | 5.38 | 90.6 | 6.4 | 0.68 | 4.6 | 0.28 | 0.19 | 0.44 | 0.42 | 30 217 |
| 41 | | 12.38 | 12.37 | 33.378 | 25.259 | 271.2 | 0.122 | 4.68 | 77.2 | 10.1 | 1.06 | 10.8 | 0.04 | 0.01 | 0.21 | 0.28 | 41 216 |
| 50 | ISL | 11.77 | 11.76 | 33.433 | 25.417 | 256.3 | 0.146 | 4.37 | 71.1 | 12.3 | 1.24 | 13.8 | 0.02 | 0.01 | 0.14 | 0.22 | 50 |
| 51 | | 11.77 | 11.76 | 33.437 | 25.420 | 256.1 | 0.148 | 4.34 | 70.7 | 12.5 | 1.26 | 14.1 | 0.02 | 0.01 | 0.14 | 0.21 | 51 215 |
| 60 | | 11.33 | 11.32 | 33.520 | 25.566 | 242.4 | 0.171 | 4.06 | 65.5 | 15.2 | 1.39 | 16.3 | 0.01 | 0.01 | 0.06 | 0.11 | 60 214 |
| 71 | | 11.24 | 11.23 | 33.592 | 25.638 | 235.8 | 0.197 | 3.78 | 60.9 | 16.3 | 1.48 | 17.6 | 0.02 | 0.02 | 0.05 | 0.10 | 71 213 |
| 75 | ISL | 10.94 | 10.93 | 33.649 | 25.736 | 226.5 | 0.206 | 3.62 | 58.0 | 17.4 | 1.54 | 18.5 | 0.02 | 0.02 | 0.04 | 0.09 | 75 |
| 86 | | 10.71 | 10.70 | 33.748 | 25.854 | 215.5 | 0.231 | 3.14 | 50.1 | 20.8 | 1.71 | 21.0 | 0.01 | 0.01 | 0.02 | 0.06 | 86 212 |
| 100 | ISL | 10.49 | 10.48 | 33.847 | 25.970 | 204.8 | 0.260 | 2.70 | 42.9 | 23.8 | 1.87 | 22.8 | 0.01 | 0.01 | 0.01 | 0.05 | 101 |
| 101 | | 10.50 | 10.49 | 33.849 | 25.970 | 204.9 | 0.262 | 2.68 | 42.6 | 24.0 | 1.88 | 22.9 | 0.01 | 0.01 | 0.01 | 0.05 | 102 211 |
| 120 | | 10.19 | 10.18 | 33.940 | 26.095 | 193.4 | 0.300 | 2.39 | 37.7 | 27.1 | 2.00 | 24.4 | 0.01 | 0.00 | 0.00 | 0.05 | 121 210 |
| 125 | ISL | 10.10 | 10.09 | 33.925 | 26.099 | 193.1 | 0.310 | 2.35 | 37.0 | 27.7 | 2.02 | 24.7 | 0.01 | 0.00 | 0.00 | 0.05 | 126 |
| 141 | | 9.90 | 9.88 | 34.004 | 26.194 | 184.3 | 0.340 | 2.24 | 35.1 | 29.3 | 2.08 | 25.5 | 0.01 | 0.00 | 0.00 | 0.04 | 142 209 |
| 150 | ISL | 9.77 | 9.75 | 34.043 | 26.247 | 179.5 | 0.356 | 2.18 | 34.1 | 30.2 | 2.11 | 26.0 | 0.01 | 0.00 | 0.00 | 0.04 | 151 |
| 171 | | 9.52 | 9.50 | 34.095 | 26.329 | 172.1 | 0.393 | 2.01 | 31.3 | 32.5 | 2.18 | 27.2 | 0.01 | 0.00 | 0.00 | 0.03 | 172 208 |
| 200 | ISL | 9.25 | 9.23 | 34.166 | 26.429 | 163.1 | 0.442 | 1.63 | 25.2 | 36.7 | 2.34 | 28.7 | 0.01 | 0.06 | 0.00 | 0.03 | 201 |
| 201 | | 9.24 | 9.22 | 34.171 | 26.434 | 162.7 | 0.443 | 1.62 | 25.1 | 36.9 | 2.35 | 28.7 | 0.01 | 0.06 | 0.00 | 0.03 | 202 207 |
| 231 | | 8.95 | 8.92 | 34.223 | 26.522 | 154.9 | 0.491 | 1.30 | 20.0 | 41.1 | 2.49 | 30.2 | 0.00 | 0.00 | | 232 206 | |
| 250 | ISL | 8.85 | 8.82 | 34.226 | 26.540 | 153.4 | 0.520 | 1.28 | 19.6 | 42.3 | 2.51 | 30.6 | 0.00 | 0.00 | | 251 | |
| 270 | | 8.67 | 8.64 | 34.229 | 26.571 | 150.8 | 0.551 | 1.26 | 19.3 | 43.5 | 2.53 | 30.9 | 0.00 | 0.01 | | 272 205 | |
| 300 | ISL | 8.22 | 8.19 | 34.224 | 26.636 | 144.9 | 0.595 | 1.09 | 16.5 | 47.4 | 2.62 | 32.1 | 0.01 | 0.01 | | 302 | |
| 320 | | 8.09 | 8.06 | 34.244 | 26.672 | 141.9 | 0.624 | 0.95 | 14.3 | 50.3 | 2.69 | 32.9 | 0.01 | 0.01 | | 322 204 | |
| 381 | | 7.55 | 7.51 | 34.277 | 26.777 | 132.6 | 0.707 | 0.66 | 9.8 | 57.7 | 2.86 | 34.7 | 0.00 | 0.01 | | 383 203 | |
| 400 | ISL | 7.27 | 7.23 | 34.270 | 26.812 | 129.4 | 0.732 | 0.60 | 8.9 | 60.0 | 2.90 | 35.3 | 0.00 | 0.01 | | 403 | |
| 441 | | 7.02 | 6.98 | 34.286 | 26.859 | 125.3 | 0.784 | 0.49 | 7.2 | 65.0 | 2.99 | 36.5 | 0.00 | 0.00 | | 444 202 | |
| 500 | ISL | 6.53 | 6.48 | 34.303 | 26.940 | 118.2 | 0.856 | 0.32 | 4.7 | 72.6 | 3.10 | 37.8 | 0.00 | 0.00 | | 503 | |
| 519 | | 6.46 | 6.41 | 34.326 | 26.967 | 115.8 | 0.879 | 0.26 | 3.8 | 75.0 | 3.14 | 38.2 | 0.00 | 0.00 | | 523 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|-------|-----------|------|------|--------|-------|--------|---------|---------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 14.66 | 14.66 | 33.376 | 24.794 | 314.4 | 0.000 | 6.00 | 103.7 | 3.0 | 0.33 | 0.0 | 0.00 | 0.00 | 0.45 | 0.09 | 0 |
| 2 | | 14.66 | 14.66 | 33.376 | 24.794 | 314.4 | 0.006 | 6.00 | 103.7 | 3.0 | 0.33 | 0.0 | 0.00 | 0.45 | 0.09 | 2 219 | |
| 10 | | 14.44 | 14.44 | 33.372 | 24.838 | 310.5 | 0.031 | 6.05 | 104.1 | 2.9 | 0.32 | 0.0 | 0.00 | 0.01 | 0.57 | 0.08 | 10 217 |
| 20 | | 14.28 | 14.28 | 33.369 | 24.870 | 307.8 | 0.062 | 6.03 | 103.4 | 3.0 | 0.33 | 0.0 | 0.00 | 0.01 | 0.66 | 0.24 | 20 216 |
| 30 | | 14.25 | 14.25 | 33.367 | 24.875 | 307.6 | 0.093 | 6.04 | 103.5 | 3.1 | 0.33 | 0.0 | 0.00 | 0.02 | 0.73 | 0.28 | 30 215 |
| 41 | | 14.06 | 14.05 | 33.346 | 24.899 | 305.6 | 0.127 | 5.70 | 97.3 | 4.4 | 0.48 | 2.0 | 0.09 | 0.05 | 0.65 | 0.40 | 41 214 |
| 50 | | 12.26 | 12.25 | 33.357 | 25.266 | 270.8 | 0.153 | 4.67 | 76.8 | 9.6 | 1.07 | 10.8 | 0.03 | 0.00 | 0.33 | 0.23 | 50 213 |
| 60 | | 12.10 | 12.09 | 33.468 | 25.382 | 259.9 | 0.179 | 4.16 | 68.2 | 11.9 | 1.26 | 13.8 | 0.01 | 0.00 | 0.19 | 0.14 | 60 212 |
| 70 | | 11.91 | 11.90 | 33.518 | 25.457 | 253.0 | 0.205 | 3.94 | 64.4 | 13.4 | 1.35 | 15.2 | 0.01 | 0.00 | 0.13 | 0.15 | 70 211 |
| 75 | ISL | 11.82 | 11.81 | 33.543 | 25.494 | 249.7 | 0.217 | 3.82 | 62.3 | 14.2 | 1.40 | 16.0 | 0.01 | 0.00 | 0.10 | 0.13 | 75 |
| 85 | | 11.50 | 11.49 | 33.615 | 25.609 | 238.9 | 0.242 | 3.53 | 57.2 | 16.3 | 1.52 | 17.8 | 0.01 | 0.00 | 0.05 | 0.08 | 85 210 |
| 100 | | 10.74 | 10.73 | 33.772 | 25.868 | 214.6 | 0.276 | 2.98 | 47.5 | 21.1 | 1.78 | 21.4 | 0.02 | 0.01 | 0.02 | 0.06 | 100 209 |
| 120 | | 10.32 | 10.31 | 33.886 | 26.030 | 199.5 | 0.317 | 2.55 | 40.3 | 25.1 | 1.95 | 23.7 | 0.01 | 0.00 | 0.01 | 0.05 | 121 208 |
| 125 | ISL | 10.31 | 10.30 | 33.887 | 26.033 | 199.4 | 0.327 | 2.47 | 39.1 | 26.0 | 1.98 | 24.1 | 0.01 | 0.01 | 0.01 | 0.05 | 126 |
| 141 | | 9.92 | 9.90 | 34.003 | 26.190 | 184.8 | 0.358 | 2.26 | 35.5 | 28.7 | 2.08 | 25.4 | 0.01 | 0.03 | 0.01 | 0.04 | 142 207 |
| 150 | ISL | 9.78 | 9.76 | 34.048 | 26.249 | 179.3 | 0.374 | 2.12 | 33.2 | 30.5 | 2.14 | 26.3 | 0.01 | 0.02 | 0.01 | 0.04 | 151 |
| 171 | | 9.37 | 9.35 | 34.133 | 26.383 | 166.9 | 0.411 | 1.84 | 28.5 | 34.3 | 2.27 | 28.0 | 0.01 | 0.00 | 0.00 | 0.03 | 172 206 |
| 200 | ISL | 9.12 | 9.10 | 34.156 | 26.442 | 161.9 | 0.458 | 1.71 | 26.4 | 36.7 | 2.34 | 28.8 | 0.02 | 0.04 | 0.00 | 0.03 | 201 |
| 201 | | 9.13 | 9.11 | 34.159 | 26.443 | 161.8 | 0.460 | 1.71 | 26.4 | 36.7 | 2.34 | 28.8 | 0.02 | 0.04 | 0.00 | 0.03 | 202 205 |
| 231 | | 9.04 | 9.01 | 34.177 | 26.472 | 159.7 | 0.508 | 1.60 | 24.6 | 38.3 | 2.39 | 29.3 | 0.02 | 0.03 | | 232 204 | |
| 250 | ISL | 8.94 | 8.91 | 34.203 | 26.508 | 156.5 | 0.538 | 1.40 | 21.5 | 40.5 | 2.47 | 30.1 | 0.01 | 0.02 | | 251 | |
| 271 | | 8.70 | 8.67 | 34.233 | 26.570 | 151.0 | 0.571 | 1.16 | 17.7 | 43.6 | 2.58 | 31.2 | 0.01 | 0.00 | | 273 203 | |
| 300 | ISL | 8.35 | 8.32 | 34.234 | 26.625 | 146.1 | 0.614 | 0.97 | 14.7 | 48.3 | 2.69 | 32.6 | 0.02 | 0.00 | | 302 | |
| 318 | | 8.01 | 7.98 | 34.247 | 26.686 | 140.4 | 0.639 | 0.89 | 13.4 | 51.2 | 2.75 | 33.4 | 0.02 | 0.00 | | 320 202 | |
| 362 | | 7.60 | 7.56 | 34.257 | 26.754 | 134.5 | 0.700 | 0.74 | 11.0 | 56.2 | 2.86 | 34.6 | 0.02 | 0.00 | | 364 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 37.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.51 | 14.51 | 33.370 | 24.821 | 311.8 | 0.000 | 6.10 | 105.1 | 3.6 | 0.33 | 0.0 | 0.00 | 0.02 | 0.53 | 0.18 | 0 | |
| 1 A | 14.51 | 14.51 | 33.370 | 24.821 | 311.8 | 0.003 | 6.10 | 105.1 | 3.6 | 0.33 | 0.0 | 0.00 | 0.02 | 0.53 | 0.18 | 1 | 220 |
| 10 A | 14.28 | 14.28 | 33.364 | 24.866 | 307.9 | 0.031 | 6.12 | 105.0 | 3.7 | 0.34 | 0.1 | 0.00 | 0.00 | 0.61 | 0.22 | 10 | 219 |
| 16 | 14.21 | 14.21 | 33.360 | 24.877 | 306.9 | 0.049 | 6.11 | 104.6 | 3.7 | 0.34 | 0.1 | 0.00 | 0.04 | 0.82 | 0.33 | 16 | 218 |
| 20 ISL | 14.17 | D 14.17 | 33.353 | D 24.880 | 306.7 | 0.062 | 6.10 | 104.4 | 3.7 | 0.35 | 0.1 | 0.01 | 0.05 | 1.00 | 0.42 | 20 | |
| 23 A | 14.16 | 14.16 | 33.357 | 24.886 | 306.3 | 0.071 | 6.07 | 103.8 | 3.7 | 0.35 | 0.1 | 0.01 | 0.06 | 1.10 | 0.48 | 23 | 217 |
| 30 ISL | 14.10 | D 14.10 | 33.350 | D 24.893 | 305.8 | 0.092 | 5.95 | 101.7 | 4.2 | 0.43 | 1.0 | 0.07 | 0.09 | 0.91 | 0.44 | 30 | |
| 35 A | 13.99 | 13.99 | 33.357 | 24.921 | 303.3 | 0.108 | 5.73 | 97.7 | 4.6 | 0.48 | 1.6 | 0.10 | 0.10 | 0.65 | 0.42 | 35 | 216 |
| 47 A | 12.40 | 12.39 | 33.406 | 25.277 | 269.6 | 0.142 | 4.48 | 73.9 | 10.3 | 1.11 | 11.3 | 0.02 | 0.01 | 0.19 | 0.22 | 47 | 215 |
| 50 ISL | 12.28 | D 12.27 | 33.451 | D 25.335 | 264.2 | 0.150 | 4.34 | 71.4 | 11.0 | 1.18 | 12.3 | 0.02 | 0.01 | 0.17 | 0.20 | 50 | |
| 60 | 12.10 | 12.09 | 33.493 | 25.402 | 258.1 | 0.176 | 4.06 | 66.6 | 12.6 | 1.30 | 14.1 | 0.01 | 0.02 | 0.11 | 0.15 | 60 | 214 |
| 73 A | 11.58 | 11.57 | 33.593 | 25.577 | 241.7 | 0.209 | 3.66 | 59.4 | 15.8 | 1.49 | 17.2 | 0.00 | 0.00 | 0.04 | 0.10 | 73 | 213 |
| 75 ISL | 11.44 | D 11.43 | 33.623 | D 25.626 | 237.1 | 0.213 | 3.60 | 58.3 | 16.2 | 1.51 | 17.6 | 0.00 | 0.00 | 0.03 | 0.09 | 75 | |
| 86 | 11.09 | 11.08 | 33.696 | 25.746 | 225.8 | 0.239 | 3.27 | 52.5 | 18.6 | 1.65 | 19.6 | 0.00 | 0.01 | 0.02 | 0.07 | 86 | 212 |
| 100 ISL | 10.58 | D 10.57 | 33.814 | D 25.929 | 208.8 | 0.269 | 2.80 | 44.5 | 23.0 | 1.85 | 22.2 | 0.00 | 0.00 | 0.01 | 0.05 | 100 | |
| 101 | 10.58 | 10.57 | 33.816 | 25.930 | 208.6 | 0.271 | 2.77 | 44.1 | 23.3 | 1.86 | 22.4 | 0.00 | 0.00 | 0.01 | 0.05 | 102 | 211 |
| 120 | 10.20 | 10.19 | 33.883 | 26.049 | 197.8 | 0.310 | 2.59 | 40.9 | 25.8 | 1.99 | 24.0 | 0.00 | 0.02 | 0.01 | 0.05 | 121 | 210 |
| 125 ISL | 10.10 | D 10.09 | 33.918 | D 26.093 | 193.6 | 0.320 | 2.52 | 39.7 | 26.5 | 2.02 | 24.4 | 0.00 | 0.02 | 0.01 | 0.05 | 126 | |
| 139 | 9.88 | 9.86 | 34.019 | D 26.209 | 182.9 | 0.346 | | | | | | | | | | 140 | 209 |
| 150 ISL | 9.83 | D 9.81 | 34.055 | D 26.246 | 179.6 | 0.366 | 2.13 | 33.4 | 30.1 | 2.17 | 26.2 | 0.00 | 0.01 | 0.00 | 0.05 | 151 | |
| 169 | 9.63 | 9.61 | 34.107 | 26.320 | 172.9 | 0.399 | 1.81 | 28.2 | 32.9 | 2.27 | 27.4 | 0.00 | 0.00 | 0.05 | 0.05 | 170 | 208 |
| 200 | 9.25 | 9.23 | 34.190 | 26.448 | 161.4 | 0.451 | 1.43 | 22.1 | 37.6 | 2.44 | 29.2 | 0.01 | 0.00 | 0.00 | 0.05 | 201 | 207 |
| 228 | 8.96 | 8.94 | 34.213 | 26.512 | 155.7 | 0.496 | 1.29 | 19.8 | 40.7 | 2.53 | 30.3 | 0.03 | 0.00 | | | 229 | 206 |
| 250 ISL | 8.73 | D 8.70 | 34.215 | D 26.551 | 152.4 | 0.530 | 1.27 | 19.4 | 42.9 | 2.58 | 30.9 | 0.02 | 0.01 | | | 251 | |
| 268 | 8.49 | 8.46 | 34.213 | 26.586 | 149.2 | 0.557 | 1.25 | 19.0 | 44.7 | 2.61 | 31.4 | 0.00 | 0.01 | | | 270 | 205 |
| 300 ISL | 8.15 | D 8.12 | 34.227 | D 26.649 | 143.7 | 0.604 | 1.08 | 16.3 | 48.6 | 2.69 | 32.5 | 0.00 | 0.01 | | | 302 | |
| 318 | 7.97 | 7.94 | 34.233 | 26.681 | 140.9 | 0.629 | 0.97 | 14.6 | 50.8 | 2.74 | 33.2 | 0.00 | 0.01 | | | 320 | 204 |
| 378 | 7.49 | 7.45 | 34.253 | 26.767 | 133.4 | 0.712 | 0.76 | 11.3 | 57.1 | 2.88 | 34.9 | 0.00 | 0.00 | | | 380 | 203 |
| 400 ISL | 7.34 | D 7.30 | 34.256 | D 26.791 | 131.4 | 0.741 | 0.67 | 9.9 | 59.6 | 2.94 | 35.4 | 0.00 | 0.02 | | | 403 | |
| 439 | 7.08 | 7.04 | 34.288 | 26.853 | 126.0 | 0.791 | 0.51 | 7.5 | 64.1 | 3.04 | 36.4 | 0.00 | 0.05 | | | 442 | 202 |
| 500 ISL | 6.53 | D 6.48 | 34.301 | D 26.938 | 118.3 | 0.865 | 0.37 | 5.4 | 71.5 | 3.12 | 38.1 | 0.00 | 0.02 | | | 503 | |
| 515 | 6.42 | 6.37 | 34.307 | 26.957 | 116.6 | 0.883 | 0.34 | 4.9 | 73.3 | 3.14 | 38.5 | 0.00 | 0.01 | | | 519 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 45.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|--------|--------|--------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.56 | 13.56 | 33.281 | 24.950 | 299.5 | 0.000 | 6.10 | 103.0 | 4.2 | 0.48 | 1.7 | 0.07 | 0.03 | 0.81 | 0.14 | 0 | |
| 2 | 13.56 | 13.56 | 33.281 | 24.950 | 299.6 | 0.006 | 6.10 | 103.0 | 4.2 | 0.48 | 1.7 | 0.07 | 0.03 | 0.81 | 0.14 | 2 | 221 |
| 10 | 13.52 | 13.52 | 33.281 | 24.958 | 299.0 | 0.030 | 6.11 | 103.1 | 4.2 | 0.49 | 1.7 | 0.08 | 0.03 | 0.79 | 0.16 | 10 | 220 |
| 10 | 13.49 | 13.49 | 33.280 | 24.964 | 298.5 | 0.030 | | | | | | | | | | | |
| 20 | 13.18 | 13.18 | 33.274 | 25.021 | 293.3 | 0.060 | 6.07 | 101.7 | 4.3 | 0.51 | 2.0 | 0.09 | 0.03 | 0.88 | 0.22 | 20 | 218 |
| 30 | 13.13 | 13.13 | 33.282 | 25.038 | 292.0 | 0.089 | 5.99 | 100.3 | 4.5 | 0.54 | 2.3 | 0.13 | 0.14 | 0.67 | 0.35 | 30 | 217 |
| 40 | 13.08 | 13.07 | 33.284 | 25.050 | 291.1 | 0.118 | 5.93 | 99.2 | 4.8 | 0.57 | 2.8 | 0.17 | 0.15 | 0.74 | 0.22 | 40 | 216 |
| 49 | 12.32 | 12.31 | 33.264 | 25.182 | 287.8 | 0.144 | 5.53 | 91.0 | 7.2 | 0.82 | 6.8 | 0.22 | 0.00 | 0.23 | 0.14 | 49 | 215 |
| 50 ISL | 11.82 | D 11.81 | 33.249 | D 25.265 | 270.8 | 0.146 | 5.50 | 89.5 | 7.5 | 0.85 | 7.2 | 0.20 | 0.00 | 0.22 | 0.13 | 50 | |
| 60 | 11.07 | 11.06 | 33.192 | 25.357 | 262.2 | 0.173 | 5.09 | 81.5 | 10.5 | 1.09 | 11.3 | 0.03 | 0.00 | 0.09 | 0.10 | 60 | 214 |
| 69 | 11.23 | 11.22 | 33.390 | 25.483 | 250.5 | 0.196 | 4.50 | 72.4 | 13.0 | 1.27 | 14.2 | 0.03 | 0.00 | 0.08 | 0.10 | 69 | 213 |
| 75 ISL | 10.71 | D 10.70 | 33.357 | D 25.549 | 244.2 | 0.211 | 4.67 | D 74.3 | 14.2 | 1.34 | 15.4 | 0.02 | 0.00 | 0.06 | 0.08 | 75 | |
| 85 | 10.46 | 10.45 | 33.457 | 25.671 | 232.9 | 0.235 | 4.37 | 69.2 | 16.1 | 1.43 | 17.0 | 0.01 | 0.00 | 0.03 | 0.05 | 85 | 212 |
| 100 | 10.12 | 10.11 | 33.601 | 25.842 | 216.9 | 0.268 | 3.92 | 61.6 | 19.6 | 1.60 | 19.7 | 0.01 | 0.00 | 0.01 | 0.04 | 100 | 211 |
| 119 | 9.67 | 9.66 | 33.854 | 26.115 | 191.3 | 0.307 | 2.77 | 43.2 | 27.3 | 1.97 | 24.7 | 0.00 | 0.00 | 0.00 | 0.06 | 120 | 210 |
| 125 ISL | 9.56 | D 9.55 | 33.882 | D 26.155 | 187.6 | 0.319 | 2.68 | 41.7 | 28.5 | 2.00 | 25.0 | 0.00 | 0.00 | 0.00 | 0.06 | 126 | |
| 139 | 9.42 | 9.40 | 33.912 | D 26.202 | 183.5 | 0.345 | | | | | | | | | | 140 | 209 |
| 150 ISL | 9.39 | D 9.37 | 33.925 | D 26.217 | 182.2 | 0.365 | 2.54 | D 39.4 | 32.1 | 2.12 | 26.1 | 0.00 | 0.00 | 0.00 | 0.05 | 151 | |
| 171 | 9.39 | 9.37 | 34.081 | 26.339 | 171.1 | 0.402 | 1.99 | 30.9 | 33.1 | 2.22 | 27.0 | 0.00 | 0.00 | 0.00 | 0.05 | 172 | 208 |
| 200 ISL | 9.07 | D 9.05 | 34.128 | D 26.428 | 163.1 | 0.450 | 1.82 | 28.0 | 36.3 | 2.32 | 28.3 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | |
| 201 | 9.07 | 9.05 | 34.126 | 26.426 | 163.3 | 0.452 | 1.81 | 27.9 | 36.4 | 2.32 | 28.3 | 0.00 | 0.00 | 0.00 | 0.03 | 202 | 207 |
| 228 | 8.97 | 8.95 | 34.204 | 26.504 | 156.5 | 0.495 | 1.43 | 22.0 | 39.7 | 2.47 | 29.6 | 0.02 | 0.00 | | | 229 | 206 |
| 250 ISL | 8.54 | D 8.51 | 34.207 | D 26.574 | 150.1 | 0.529 | 1.28 | 19.5 | 43.1 | 2.56 | 30.7 | 0.01 | 0.01 | | | 251 | |
| 268 | 8.37 | 8.34 | 34.215 | 26.606 | 147.3 | 0.556 | 1.21 | 18.4 | 45.9 | 2.61 | 31.5 | 0.00 | 0.01 | | | 270 | 205 |
| | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 53.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.94 | 13.94 | 33.264 | 24.859 | 308.2 | 0.000 | 6.07 | 103.3 | 3.2 | 0.41 | 0.7 | 0.04 | 0.04 | 0.91 | 0.16 | 0 | |
| 2 | 13.94 | 13.94 | 33.264 | 24.859 | 308.3 | 0.006 | 6.07 | 103.3 | 3.2 | 0.41 | 0.7 | 0.04 | 0.04 | 0.91 | 0.16 | 2 220 | |
| 10 ISL | 13.78 | 13.78 | 33.256 D | 24.886 | 305.9 | 0.031 | 6.06 | 102.8 | 3.3 | 0.43 | 0.9 | 0.05 | 0.03 | 0.90 | 0.19 | 10 | |
| 11 | 13.77 | 13.77 | 33.269 | 24.898 | 304.8 | 0.034 | 6.06 | 102.8 | 3.3 | 0.43 | 1.0 | 0.05 | 0.03 | 0.90 | 0.19 | 11 219 | |
| 20 ISL | 13.10 D | 13.10 | 33.266 D | 25.031 | 292.4 | 0.061 | 6.12 | 102.4 | 4.1 | 0.49 | 2.0 | 0.09 | 0.04 | 0.88 | 0.22 | 20 | |
| 21 | 13.10 | 13.10 | 33.268 | 25.033 | 292.2 | 0.064 | 6.12 | 102.4 | 4.2 | 0.50 | 2.1 | 0.10 | 0.04 | 0.88 | 0.22 | 21 218 | |
| 30 ISL | 12.91 D | 12.91 | 33.268 D | 25.070 | 288.9 | 0.090 | 6.02 | 100.3 | 4.5 | 0.55 | 2.8 | 0.15 | 0.09 | 0.86 | 0.30 | 30 | |
| 31 | 12.91 | 12.91 | 33.271 | 25.073 | 288.7 | 0.093 | 6.00 | 100.0 | 4.5 | 0.56 | 2.9 | 0.15 | 0.10 | 0.86 | 0.30 | 31 217 | |
| 40 | 12.84 | 12.83 | 33.279 | 25.093 | 287.0 | 0.119 | 5.93 | 98.7 | 4.9 | 0.59 | 3.3 | 0.17 | 0.19 | 0.77 | 0.10 | 40 216 | |
| 50 ISL | 12.71 D | 12.70 | 33.304 D | 25.138 | 282.9 | 0.147 | 5.86 | 97.2 | 5.6 | 0.64 | 4.0 | 0.20 | 0.30 | 0.39 | 0.17 | 50 | |
| 51 | 12.68 | 12.67 | 33.309 | 25.148 | 282.0 | 0.150 | 5.85 | 97.0 | 5.7 | 0.64 | 4.1 | 0.20 | 0.30 | 0.35 | 0.18 | 51 215 | |
| 61 | 11.73 | 11.72 | 33.261 | 25.291 | 268.6 | 0.177 | 5.17 | 84.0 | 9.3 | 1.00 | 9.9 | 0.10 | 0.04 | 0.15 | 0.11 | 61 214 | |
| 71 | 10.59 | 10.58 | 33.308 | 25.532 | 245.8 | 0.203 | 4.80 | 76.1 | 13.1 | 1.23 | 14.2 | 0.02 | 0.02 | 0.05 | 0.05 | 71 213 | |
| 75 ISL | 10.57 D | 10.56 | 33.306 D | 25.534 | 245.6 | 0.213 | 4.75 | 75.3 | 13.7 | 1.26 | 14.8 | 0.02 | 0.01 | 0.04 | 0.04 | 75 | |
| 86 | 10.29 | 10.28 | 33.370 | 25.632 | 236.5 | 0.239 | 4.65 | 73.3 | 14.7 | 1.32 | 15.6 | 0.01 | 0.00 | 0.03 | 0.03 | 86 212 | |
| 100 ISL | 9.95 D | 9.94 | 33.514 D | 25.802 | 220.6 | 0.271 | 4.25 | 66.5 | 18.3 | 1.52 | 18.7 | 0.01 | 0.00 | 0.01 | 0.02 | 100 | |
| 101 | 9.95 | 9.94 | 33.517 | 25.805 | 220.4 | 0.274 | 4.22 | 66.1 | 18.6 | 1.54 | 18.9 | 0.01 | 0.00 | 0.01 | 0.02 | 101 211 | |
| 120 | 9.65 | 9.64 | 33.736 | 26.026 | 199.8 | 0.314 | 3.52 | 54.8 | 23.6 | 1.77 | 22.8 | 0.01 | 0.00 | 0.01 | 0.02 | 121 210 | |
| 125 ISL | 9.55 D | 9.54 | 33.770 D | 26.069 | 195.8 | 0.323 | 3.44 | 53.5 | 24.2 | 1.79 | 23.2 | 0.01 | 0.00 | 0.01 | 0.02 | 126 | |
| 141 | 9.43 | 9.41 | 33.812 | 26.122 | 191.1 | 0.354 | 3.24 | 50.2 | 25.7 | 1.85 | 24.0 | 0.01 | 0.00 | 0.01 | 0.02 | 142 209 | |
| 150 ISL | 9.23 D | 9.21 | 33.907 D | 26.229 | 181.1 | 0.371 | 2.97 | 45.9 | 27.5 | 1.94 | 25.1 | 0.01 | 0.00 | 0.01 | 0.02 | 151 | |
| 170 | 9.12 | 9.10 | 33.952 | 26.282 | 176.4 | 0.407 | 2.40 | 37.0 | 31.8 | 2.13 | 27.6 | 0.00 | 0.01 | 0.00 | 0.03 | 171 208 | |
| 200 ISL | 8.71 D | 8.69 | 34.019 D | 26.399 | 165.7 | 0.458 | 2.20 | 33.6 | 35.4 | 2.22 | 29.0 | 0.00 | 0.01 | 0.00 | 0.03 | 201 | |
| 201 | 8.70 | 8.68 | 34.022 | 26.403 | 165.3 | 0.460 | 2.20 | 33.6 | 35.5 | 2.22 | 29.0 | 0.00 | 0.01 | 0.00 | 0.03 | 202 207 | |
| 231 | 8.14 | 8.12 | 34.066 | 26.523 | 154.3 | 0.508 | 2.01 | 30.3 | 41.1 | 2.33 | 30.6 | 0.01 | 0.00 | | | 232 206 | |
| 250 ISL | 7.86 D | 7.84 | 34.103 D | 26.594 | 147.8 | 0.536 | 1.72 | 25.8 | 46.2 | 2.47 | 32.3 | 0.01 | 0.00 | | | 251 | |
| 270 | 7.51 | 7.48 | 34.128 | 26.664 | 141.3 | 0.565 | 1.39 | 20.7 | 51.4 | 2.62 | 34.0 | 0.00 | 0.00 | | | 272 205 | |
| 300 ISL | 7.25 D | 7.22 | 34.167 D | 26.732 | 135.2 | 0.607 | 1.09 | 16.1 | 55.5 | 2.75 | 35.0 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.29 | 7.26 | 34.202 | 26.754 | 133.5 | 0.635 | 0.94 | 13.9 | 57.3 | 2.81 | 35.2 | 0.00 | 0.00 | | | 323 204 | |
| 381 | 7.17 | 7.13 | 34.257 | 26.815 | 128.7 | 0.714 | 0.65 | 9.6 | 61.7 | 2.93 | 36.0 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 7.11 D | 7.07 | 34.259 D | 26.825 | 128.0 | 0.738 | 0.62 | 9.1 | 63.0 | 2.95 | 36.4 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.78 | 6.74 | 34.252 | 26.865 | 124.5 | 0.790 | 0.58 | 8.5 | 66.7 | 2.99 | 37.3 | 0.00 | 0.00 | | | 444 202 | |
| 500 ISL | 6.29 D | 6.24 | 34.295 D | 26.964 | 115.6 | 0.861 | 0.38 | 5.5 | 76.2 | 3.13 | 39.0 | 0.00 | 0.00 | | | 503 | |
| 519 | 6.06 | 6.01 | 34.305 | 27.002 | 112.0 | 0.882 | 0.32 | 4.6 | 79.2 | 3.18 | 39.6 | 0.00 | 0.00 | | | 523 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|-----------|--------|-------|------|-----------|------|------|--------|-------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.86 | 14.86 | 33.281 | 24.678 | 325.4 | 0.000 | 5.89 | 102.2 | 2.5 | 0.40 | 0.2 | 0.02 | 0.01 | 0.46 | 0.09 | 0 | |
| 2 | 14.86 | 14.86 | 33.281 | 24.678 | 325.5 | 0.007 | 5.89 | 102.2 | 2.5 | 0.40 | 0.2 | 0.02 | 0.01 | 0.46 | 0.09 | 2 220 | |
| 10 ISL | 14.52 | 14.52 | 33.272 | 24.744 | 319.4 | 0.032 | 5.90 | 101.6 | 2.5 | 0.40 | 0.1 | 0.03 | 0.04 | 0.48 | 0.13 | 10 219 | |
| 20 ISL | 14.42 D | 14.42 | 33.253 D | 24.751 | 319.1 | 0.064 | 5.90 | 101.4 | 2.5 | 0.39 | 0.2 | 0.03 | 0.02 | 0.57 | 0.16 | 20 | |
| 21 | 14.43 | 14.43 | 33.261 | 24.755 | 318.7 | 0.067 | 5.90 | 101.4 | 2.5 | 0.39 | 0.2 | 0.03 | 0.02 | 0.57 | 0.16 | 21 218 | |
| 30 | 14.26 | 14.26 | 33.224 | 24.762 | 318.3 | 0.096 | 5.84 | 100.0 | 2.6 | 0.43 | 0.7 | 0.06 | 0.01 | 0.44 | 0.17 | 30 217 | |
| 41 | 12.79 | 12.78 | 33.056 | 24.930 | 302.5 | 0.130 | 5.73 | 95.1 | 4.0 | 0.59 | 2.9 | 0.07 | 0.02 | 0.21 | 0.17 | 41 216 | |
| 50 ISL | 11.82 D | 11.81 | 32.949 D | 25.032 | 293.0 | 0.157 | 5.69 | 92.5 | 4.9 | 0.68 | 4.4 | 0.03 | 0.01 | 0.13 | 0.14 | 50 | |
| 51 | 11.82 | 11.81 | 32.954 | 25.036 | 292.6 | 0.160 | 5.69 | 92.5 | 5.0 | 0.69 | 4.6 | 0.03 | 0.01 | 0.12 | 0.13 | 51 215 | |
| 61 | 10.85 | 10.84 | 32.900 | 25.169 | 280.1 | 0.189 | 5.61 | 89.2 | 7.1 | 0.89 | 7.6 | 0.02 | 0.01 | 0.06 | 0.07 | 61 214 | |
| 71 | 10.74 | 10.73 | 32.986 | 25.255 | 272.1 | 0.216 | 5.47 | 86.9 | 8.2 | 0.96 | 9.0 | 0.02 | 0.00 | 0.05 | 0.06 | 71 213 | |
| 75 ISL | 10.89 D | 10.88 | 33.052 D | 25.280 | 269.8 | 0.227 | 5.44 | 86.7 | 8.3 | 0.96 | 9.1 | 0.02 | 0.00 | 0.05 | 0.06 | 75 | |
| 86 | 10.77 | 10.76 | 33.097 | 25.337 | 264.7 | 0.256 | 5.30 | 84.3 | 9.1 | 1.00 | 9.9 | 0.02 | 0.00 | 0.04 | 0.05 | 86 212 | |
| 100 ISL | 10.42 D | 10.41 | 33.374 D | 25.613 | 238.6 | 0.292 | 4.77 | 75.4 | 13.3 | 1.24 | 14.1 | 0.02 | 0.00 | 0.03 | 0.04 | 100 | |
| 101 | 10.44 | 10.43 | 33.355 | 25.595 | 240.4 | 0.294 | 4.73 | 74.8 | 13.6 | 1.26 | 14.4 | 0.02 | 0.00 | 0.03 | 0.04 | 101 211 | |
| 121 | 9.97 | 9.96 | 33.568 | 25.842 | 217.4 | 0.340 | 4.09 | 64.1 | 18.9 | 1.57 | 19.3 | 0.01 | 0.00 | 0.01 | 0.02 | 122 210 | |
| 125 ISL | 9.93 D | 9.92 | 33.587 D | 25.863 | 215.4 | 0.348 | 3.96 | 62.0 | 19.9 | 1.61 | 20.0 | 0.01 | 0.00 | 0.01 | 0.02 | 126 | |
| 140 | 9.65 | 9.63 | 33.750 | 26.037 | 199.1 | 0.380 | 3.49 | 54.4 | 23.2 | 1.75 | 22.4 | 0.01 | 0.00 | 0.00 | 0.02 | 141 209 | |
| 150 ISL | 9.51 D | 9.49 | 33.812 D | 26.109 | 192.5 | 0.399 | 3.31 | 51.4 | 25.1 | 1.81 | 23.6 | 0.01 | 0.00 | 0.00 | 0.02 | 151 | |
| 170 | 9.00 | 8.98 | 33.911 | 26.269 | 177.6 | 0.436 | 2.95 | 45.3 | 29.1 | 1.94 | 25.7 | 0.00 | 0.00 | 0.00 | 0.02 | 171 208 | |
| 200 | 8.62 | 8.60 | 34.051 | 26.438 | 162.0 | 0.487 | 1.97 | 30.0 | 37.2 | 2.28 | 29.8 | 0.00 | 0.01 | 0.00 | 0.02 | 201 207 | |
| 231 | 8.49 | 8.47 | 34.081 | 26.482 | 158.4 | 0.537 | 1.75 | 26.6 | 39.3 | 2.36 | 30.7 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 8.22 D | 8.19 | 34.124 D | 26.557 | 151.5 | 0.566</td | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.67 | 14.67 | 33.299 | 24.733 | 320.2 | 0.000 | 5.83 | 100.8 | 2.2 | 0.37 | 0.1 | 0.01 | 0.00 | 0.43 | 0.13 | 0 | |
| 2 A | 14.67 | 14.67 | 33.299 | 24.733 | 320.3 | 0.006 | 5.83 | 100.8 | 2.2 | 0.37 | 0.1 | 0.01 | 0.00 | 0.43 | 0.13 | 2 | 222 |
| 10 ISL | 14.64 | 14.64 | 33.295 | 24.736 | 320.2 | 0.032 | 5.86 | 101.2 | 2.3 | 0.38 | 0.1 | 0.01 | 0.02 | 0.43 | 0.14 | 10 | |
| 12 A | 14.62 | 14.62 | 33.297 | 24.742 | 319.7 | 0.038 | 5.87 | 101.3 | 2.3 | 0.38 | 0.1 | 0.01 | 0.02 | 0.43 | 0.14 | 12 | 220 |
| 20 | 14.61 | 14.61 | 33.298 | 24.745 | 319.6 | 0.064 | 5.84 | 100.8 | 2.3 | 0.37 | 0.1 | 0.01 | 0.01 | 0.43 | 0.14 | 20 | 219 |
| 28 A | 14.61 | 14.61 | 33.298 | 24.745 | 319.8 | 0.090 | 5.84 | 100.8 | 2.2 | 0.36 | 0.1 | 0.01 | 0.02 | 0.44 | 0.16 | 28 | 218 |
| 30 ISL | 14.61 | 14.61 | 33.294 | 24.742 | 320.2 | 0.096 | 5.84 | 100.8 | 2.2 | 0.36 | 0.1 | 0.01 | 0.01 | 0.44 | 0.16 | 30 | |
| 36 | 14.61 | 14.60 | 33.299 | 24.746 | 320.0 | 0.115 | 5.84 | 100.8 | 2.2 | 0.37 | 0.1 | 0.01 | 0.00 | 0.44 | 0.15 | 36 | 217 |
| 43 A | 14.61 | 14.60 | 33.299 | 24.747 | 320.2 | 0.138 | 5.84 | 100.8 | 2.3 | 0.38 | 0.1 | 0.01 | 0.01 | 0.44 | 0.14 | 43 | 216 |
| 50 ISL | 14.61 | 14.60 | 33.292 | 24.741 | 320.9 | 0.160 | 5.81 | 100.3 | 2.3 | 0.41 | 0.1 | 0.02 | 0.02 | 0.46 | 0.17 | 50 | |
| 51 | 14.60 | 14.59 | 33.297 | 24.748 | 320.3 | 0.163 | 5.81 | 100.3 | 2.3 | 0.41 | 0.1 | 0.02 | 0.02 | 0.46 | 0.17 | 51 | 215 |
| 59 A | 14.57 | 14.56 | 33.293 | 24.751 | 320.2 | 0.189 | 5.81 | 100.2 | 2.2 | 0.41 | 0.2 | 0.03 | 0.05 | 0.37 | 0.15 | 59 | 214 |
| 75 | 13.28 | 13.27 | 33.115 | 24.880 | 308.2 | 0.239 | 5.73 | 96.1 | 3.4 | 0.56 | 2.0 | 0.18 | 0.00 | 0.16 | 0.19 | 75 | 213 |
| 90 A | 11.50 | 11.49 | 32.927 | 25.074 | 289.8 | 0.284 | 5.70 | 92.0 | 5.1 | 0.74 | 4.9 | 0.01 | 0.00 | 0.08 | 0.12 | 90 | 212 |
| 100 ISL | 10.69 | 10.68 | 32.967 | 25.250 | 273.2 | 0.312 | 5.56 | 88.2 | 7.5 | 0.93 | 8.1 | 0.01 | 0.00 | 0.04 | 0.07 | 100 | |
| 106 | 10.52 | 10.51 | 33.012 | 25.314 | 267.2 | 0.328 | 5.40 | 85.3 | 9.2 | 1.05 | 10.1 | 0.01 | 0.00 | 0.03 | 0.05 | 106 | 211 |
| 119 | 10.80 | 10.79 | 33.397 | 25.566 | 243.7 | 0.362 | 4.74 | 75.5 | 12.8 | 1.25 | 13.9 | 0.01 | 0.00 | 0.02 | 0.03 | 120 | 210 |
| 125 ISL | 10.90 | 10.88 | 33.579 | 25.690 | 232.1 | 0.376 | 4.49 | 71.8 | 14.1 | 1.32 | 15.1 | 0.01 | 0.00 | 0.02 | 0.03 | 126 | |
| 139 | 10.48 | 10.46 | 33.650 | 25.819 | 220.0 | 0.407 | 4.01 | 63.6 | 17.0 | 1.46 | 17.5 | 0.01 | 0.00 | 0.01 | 0.02 | 140 | 209 |
| 150 ISL | 10.08 | 10.06 | 33.738 | 25.956 | 207.1 | 0.431 | 3.74 | 58.8 | 19.8 | 1.59 | 19.5 | 0.01 | 0.00 | 0.01 | 0.01 | 151 | |
| 169 | 9.46 | 9.44 | 33.869 | 26.162 | 187.8 | 0.468 | 3.36 | 52.1 | 24.6 | 1.79 | 22.7 | 0.00 | 0.00 | 0.00 | 0.01 | 170 | 208 |
| 200 | 8.95 | 8.93 | 33.977 | 26.329 | 172.5 | 0.524 | 2.76 | 42.4 | 30.7 | 2.02 | 26.2 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 228 | 8.57 | 8.55 | 34.038 | 26.436 | 162.7 | 0.571 | 2.44 | 37.2 | 35.2 | 2.16 | 28.1 | 0.00 | 0.00 | | 229 | 206 | |
| 250 ISL | 8.14 | 8.11 | 34.059 | 26.518 | 155.1 | 0.606 | 2.11 | 31.8 | 40.2 | 2.28 | 29.9 | 0.00 | 0.00 | | 251 | | |
| 267 | 7.93 | 7.90 | 34.084 | 26.569 | 150.5 | 0.632 | 1.85 | 27.8 | 44.1 | 2.38 | 31.3 | 0.00 | 0.00 | | 268 | 205 | |
| 300 ISL | 7.56 | 7.53 | 34.123 | 26.654 | 142.8 | 0.681 | 1.52 | 22.6 | 49.8 | 2.56 | 33.1 | 0.00 | 0.00 | | 302 | | |
| 317 | 7.32 | 7.29 | 34.120 | 26.686 | 139.9 | 0.705 | 1.38 | 20.4 | 52.3 | 2.65 | 33.9 | 0.00 | 0.00 | | 319 | 204 | |
| 377 | 6.78 | 6.75 | 34.158 | 26.790 | 130.6 | 0.786 | 0.96 | 14.0 | 61.1 | 2.86 | 36.3 | 0.00 | 0.00 | | 379 | 203 | |
| 400 ISL | 6.65 | 6.61 | 34.159 | 26.809 | 129.1 | 0.816 | 0.87 | 12.7 | 63.0 | 2.91 | 36.9 | 0.00 | 0.00 | | 402 | | |
| 437 | 6.48 | 6.44 | 34.187 | 26.854 | 125.2 | 0.863 | 0.74 | 10.7 | 66.0 | 2.97 | 37.6 | 0.00 | 0.00 | | 440 | 202 | |
| 500 ISL | 6.17 | 6.13 | 34.252 | 26.946 | 117.2 | 0.939 | 0.46 | 6.6 | 74.4 | 3.09 | 39.1 | 0.00 | 0.00 | | 503 | | |
| 513 | 6.10 | 6.05 | 34.264 | 26.964 | 115.5 | 0.954 | 0.40 | 5.8 | 76.1 | 3.12 | 39.4 | 0.00 | 0.00 | | 516 | 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|------|--------|-------|--------|------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.42 | 14.42 | 33.127 | 24.653 | 327.8 | 0.000 | 5.88 | 101.0 | 2.2 | 0.38 | 0.0 | 0.02 | 0.04 | 0.41 | 0.16 | 0 | |
| 2 | 14.42 | 14.42 | 33.127 | 24.653 | 327.9 | 0.007 | 5.88 | 101.0 | 2.2 | 0.38 | 0.0 | 0.02 | 0.04 | 0.41 | 0.16 | 2 | 221 |
| 10 | 14.44 | 14.44 | 33.128 | 24.650 | 328.4 | 0.033 | 5.88 | 101.0 | 2.2 | 0.38 | 0.0 | 0.02 | 0.04 | 0.40 | 0.16 | 10 | 219 |
| 20 | 14.67 | 14.67 | 33.241 | 24.688 | 325.0 | 0.065 | 5.86 | 101.2 | 2.2 | 0.37 | 0.0 | 0.01 | 0.02 | 0.38 | 0.13 | 20 | 218 |
| 29 | 14.63 | 14.63 | 33.247 | 24.702 | 324.0 | 0.095 | 5.85 | 101.0 | 2.0 | 0.37 | 0.0 | 0.01 | 0.01 | 0.40 | 0.15 | 29 | 217 |
| 30 ISL | 14.61 | 14.61 | 33.239 | 24.700 | 324.2 | 0.098 | 5.85 | 100.9 | 2.0 | 0.37 | 0.0 | 0.01 | 0.01 | 0.40 | 0.15 | 30 | |
| 39 | 14.67 | 14.66 | 33.278 | 24.718 | 322.8 | 0.127 | 5.85 | 101.1 | 2.1 | 0.38 | 0.0 | 0.01 | 0.00 | 0.42 | 0.15 | 39 | 216 |
| 50 | 14.65 | 14.64 | 33.286 | 24.728 | 322.1 | 0.163 | 5.84 | 100.9 | 2.1 | 0.39 | 0.0 | 0.01 | 0.05 | 0.41 | 0.17 | 50 | 215 |
| 60 | 13.82 | 13.81 | 33.143 | 24.792 | 316.3 | 0.194 | 5.78 | 98.1 | 2.8 | 0.47 | 1.0 | 0.20 | 0.20 | 0.22 | 0.13 | 60 | 214 |
| 69 | 13.03 | 13.02 | 33.072 | 24.896 | 306.5 | 0.222 | 5.79 | 96.6 | 3.7 | 0.58 | 2.5 | 0.27 | 0.10 | 0.09 | 69 | 213 | |
| 75 ISL | 12.95 | 12.94 | 33.121 | 24.950 | 301.5 | 0.241 | 5.78 | 96.3 | 4.1 | 0.63 | 3.2 | 0.20 | 0.06 | 0.08 | 0.08 | 75 | |
| 84 | 11.84 | 11.83 | 32.942 | 25.023 | 294.6 | 0.268 | 5.77 | 93.8 | 4.8 | 0.69 | 4.3 | 0.05 | 0.02 | 0.06 | 0.07 | 84 | 212 |
| 100 | 10.84 | 10.83 | 32.897 | 25.169 | 280.9 | 0.314 | 5.65 | 89.8 | 6.9 | 0.87 | 7.3 | 0.01 | 0.02 | 0.05 | 0.06 | 100 | 211 |
| 120 | 10.45 | 10.44 | 33.143 | 25.429 | 256.6 | 0.367 | 5.20 | 82.1 | 10.2 | 1.07 | 11.1 | 0.01 | 0.01 | 0.03 | 0.04 | 121 | 210 |
| 125 ISL | 10.52 | 10.51 | 33.297 | 25.537 | 246.5 | 0.380 | 5.10 | 80.7 | 10.8 | 1.10 | 11.8 | 0.01 | 0.01 | 0.03 | 0.03 | 126 | |
| 139 | 10.29 | 10.27 | 33.399 | 25.656 | 235.4 | 0.414 | 4.76 | 75.0 | 13.0 | 1.21 | 13.9 | 0.01 | 0.02 | 0.02 | 0.02 | 140 | 209 |
| 150 ISL | 9.91 | 9.89 | 33.541 | 25.831 | 218.9 | 0.439 | 4.34 | 67.9 | 16.4 | 1.39 | 16.8 | 0.01 | 0.02 | 0.01 | 0.02 | 151 | |
| 169 | 9.59 | 9.57 | 33.715 | 26.020 | 201.3 | 0.479 | 3.63 | 56.4 | 2.26 | 1.71 | 21.7 | 0.00 | 0.02 | 0.00 | 0.02 | 170 | 208 |
| 200 | 8.88 | 8.86 | 33.924 | 26.298 | 175.3 | 0.537 | 3.18 | 48.7 | 28.3 | 1.86 | 24.6 | 0.00 | 0.05 | 0.00 | 0.02 | 201 | 207 |
| 229 | 8.22 | 8.20 | 33.988 | 26.450 | 161.2 | 0.586 | 2.81 | 42.4 | 35.0 | 2.05 | 27.4 | 0.00 | 0.00 | | 230 | 206 | |
| 250 ISL | 8.03 | 8.00 | 34.039 | 26.519 | 155.0 | 0.619 | 2.45 | 36.9 | 39.2 | 2.19 | 29.0 | 0.00 | 0.00 | | 251 | | |
| 268 | 7.94 | 7.91 | 34.062 | 26.550 | 152.3 | 0.647 | 2.13 | 32.0 | 42.4 | 2.30 | 30.2 | 0.00 | 0.00 | | 269 | 205 | |
| 300 ISL | 7.73 | 7.70 | 34.122 | 26.629 | 145.3 | 0.694 | 1.70 | 25.4 | 47.7 | 2.47 | 32.3 | 0.00 | 0.00 | | 302 | | |
| 318 | 7.45 | 7.42 | 34.115 | 26.663 | 142.2 | 0.720 | 1.50 | 2 | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 31 25.3 N | 121 59.3 W | 12/01/09 | 0522 | UTC | 3866 m | 360 | 10 kn | | | 1022.3 mb | 15.0 C | 13.0 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | | | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.75 | 14.75 | 33.134 | 24.588 | 334.0 | 0.000 | 5.88 | 101.7 | 2.2 | 0.38 | 0.0 | 0.01 | 0.02 | 0.34 | 0.09 | 0 | |
| 2 | 14.75 | 14.75 | 33.134 | 24.588 | 334.0 | 0.007 | 5.88 | 101.7 | 2.2 | 0.38 | 0.0 | 0.01 | 0.02 | 0.34 | 0.09 | 2 220 | |
| 10 | 14.75 | 14.75 | 33.134 | 24.589 | 334.2 | 0.033 | 5.87 | 101.5 | 2.2 | 0.37 | 0.0 | 0.00 | 0.00 | 0.33 | 0.10 | 10 219 | |
| 20 | 14.69 | 14.69 | 33.141 | 24.607 | 332.8 | 0.067 | 5.89 | 101.7 | 2.3 | 0.37 | 0.0 | 0.01 | 0.00 | 0.38 | 0.12 | 20 218 | |
| 30 | 13.78 | 13.78 | 33.164 | 24.815 | 313.2 | 0.099 | 5.94 | 100.7 | 2.9 | 0.44 | 0.8 | 0.11 | 0.02 | 0.53 | 0.25 | 30 217 | |
| 40 | 13.83 | 13.82 | 33.214 | 24.844 | 310.7 | 0.130 | 5.93 | 100.7 | 2.9 | 0.44 | 0.7 | 0.07 | 0.16 | 0.47 | 0.23 | 40 216 | |
| 50 ISL | 13.75 D | 13.74 | 33.243 D | 24.883 | 307.3 | 0.161 | 5.85 | 99.2 | 3.1 | 0.48 | 1.4 | 0.12 | 0.25 | 0.30 | 0.17 | 50 | |
| 51 | 13.69 | 13.68 | 33.233 | 24.888 | 306.9 | 0.164 | 5.84 | 98.9 | 3.2 | 0.49 | 1.5 | 0.13 | 0.25 | 0.28 | 0.16 | 51 215 | |
| 61 | 13.08 | 13.07 | 33.189 | 24.977 | 298.6 | 0.195 | 5.81 | 97.1 | 4.2 | 0.61 | 3.1 | 0.24 | 0.23 | 0.21 | 0.14 | 61 214 | |
| 70 | 12.04 | 12.03 | 33.061 | 25.078 | 289.1 | 0.221 | 5.67 | 92.6 | 5.5 | 0.73 | 5.4 | 0.12 | 0.01 | 0.13 | 0.12 | 70 213 | |
| 75 ISL | 11.73 D | 11.72 | 33.092 D | 25.160 | 281.4 | 0.235 | 5.44 | 88.3 | 7.2 | 0.87 | 7.7 | 0.07 | 0.01 | 0.11 | 0.11 | 75 | |
| 86 | 11.20 | 11.19 | 33.244 | 25.375 | 261.1 | 0.265 | 4.84 | 77.7 | 11.7 | 1.20 | 13.2 | 0.01 | 0.00 | 0.08 | 0.09 | 86 212 | |
| 100 ISL | 10.51 D | 10.50 | 33.434 D | 25.645 | 235.7 | 0.300 | 4.31 | 68.3 | 16.6 | 1.47 | 17.7 | 0.00 | 0.00 | 0.04 | 0.06 | 100 | |
| 101 | 10.51 | 10.50 | 33.437 | 25.647 | 235.5 | 0.302 | 4.28 | 67.8 | 16.9 | 1.49 | 18.0 | 0.00 | 0.00 | 0.04 | 0.06 | 101 211 | |
| 120 | 10.11 | 10.10 | 33.627 | 25.864 | 215.2 | 0.345 | 3.63 | 57.1 | 21.6 | 1.73 | 21.9 | 0.00 | 0.00 | 0.02 | 0.05 | 121 210 | |
| 125 ISL | 9.90 D | 9.89 | 33.676 D | 25.938 | 208.3 | 0.356 | 3.55 | 55.6 | 22.3 | 1.76 | 22.4 | 0.00 | 0.00 | 0.02 | 0.05 | 126 | |
| 141 | 9.61 | 9.59 | 33.728 | 26.027 | 200.1 | 0.388 | 3.41 | 53.1 | 24.1 | 1.82 | 23.2 | 0.01 | 0.02 | 0.01 | 0.03 | 142 209 | |
| 150 ISL | 9.34 D | 9.32 | 33.805 D | 26.131 | 190.3 | 0.406 | 3.35 | 51.8 | 25.3 | 1.84 | 23.8 | 0.01 | 0.02 | 0.01 | 0.03 | 151 | |
| 171 | 8.93 | 8.91 | 33.870 | 26.248 | 179.6 | 0.445 | 3.27 | 50.2 | 28.1 | 1.88 | 25.0 | 0.01 | 0.03 | 0.00 | 0.02 | 172 208 | |
| 200 ISL | 8.50 D | 8.48 | 33.965 D | 26.389 | 166.6 | 0.495 | 3.19 | 48.5 | 31.3 | 1.90 | 25.8 | 0.00 | 0.03 | 0.00 | 0.02 | 201 | |
| 201 | 8.47 | 8.45 | 33.968 | 26.396 | 165.9 | 0.497 | 3.19 | 48.4 | 31.5 | 1.90 | 25.8 | 0.00 | 0.03 | 0.00 | 0.02 | 202 207 | |
| 231 | 8.01 | 7.99 | 34.020 | 26.506 | 155.8 | 0.545 | 2.40 | 36.1 | 40.1 | 2.20 | 29.9 | 0.00 | 0.03 | | | 232 206 | |
| 250 ISL | 7.78 D | 7.76 | 34.032 D | 26.550 | 151.9 | 0.574 | 2.07 | 31.0 | 43.9 | 2.33 | 31.4 | 0.00 | 0.04 | | | 251 | |
| 271 | 7.55 | 7.52 | 34.063 | 26.608 | 146.7 | 0.605 | 1.80 | 26.8 | 47.3 | 2.44 | 32.6 | 0.00 | 0.05 | | | 273 205 | |
| 300 ISL | 7.16 D | 7.13 | 34.070 D | 26.668 | 141.2 | 0.647 | 1.53 | 22.6 | 52.2 | 2.57 | 34.3 | 0.01 | 0.02 | | | 302 | |
| 321 | 7.01 | 6.98 | 34.090 | 26.705 | 137.9 | 0.676 | 1.38 | 20.3 | 55.6 | 2.65 | 35.3 | 0.01 | 0.00 | | | 323 204 | |
| 381 | 6.66 | 6.63 | 34.162 | 26.810 | 128.7 | 0.756 | 0.88 | 12.8 | 63.7 | 2.87 | 37.2 | 0.01 | 0.00 | | | 383 203 | |
| 400 ISL | 6.27 D | 6.23 | 34.136 D | 26.840 | 125.8 | 0.781 | 0.81 | 11.7 | 67.5 | 2.92 | 37.9 | 0.01 | 0.00 | | | 403 | |
| 442 | 5.82 | 5.78 | 34.155 | 26.912 | 119.1 | 0.832 | 0.69 | 9.9 | 75.7 | 3.02 | 39.5 | 0.00 | 0.00 | | | 445 202 | |
| 500 ISL | 5.50 D | 5.46 | 34.212 D | 26.997 | 111.5 | 0.899 | 0.44 | 6.2 | 82.7 | 3.14 | 40.7 | 0.00 | 0.00 | | | 503 | |
| 517 | 5.50 | 5.46 | 34.240 | 27.019 | 109.6 | 0.918 | 0.37 | 5.3 | 84.8 | 3.17 | 41.1 | 0.00 | 0.00 | | | 520 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|------------|-----------|----------|--------|--------|-------|-------|-----------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 31 5.4 N | 122 39.7 W | 11/01/09 | 2304 | UTC | 4005 m | 360 | 11 kn | 010 04 06 | 0 | 1023.2 mb | 17.0 C | 14.0 C | 15m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | | | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.25 | 14.25 | 33.371 | 24.877 | 306.5 | 0.000 | 5.98 | 102.5 | 2.9 | 0.43 | 0.9 | 0.07 | 0.08 | 0.59 | 0.16 | 0 | |
| 3 | 14.25 | 14.25 | 33.371 | 24.877 | 306.6 | 0.009 | 5.98 | 102.5 | 2.9 | 0.43 | 0.9 | 0.07 | 0.08 | 0.59 | 0.16 | 3 220 | |
| 10 | 14.22 | 14.22 | 33.371 | 24.884 | 306.1 | 0.031 | 5.95 | 101.9 | 2.9 | 0.43 | 0.9 | 0.07 | 0.08 | 0.61 | 0.16 | 10 219 | |
| 20 | 14.09 | 14.09 | 33.361 | 24.903 | 304.6 | 0.061 | 5.95 | 101.7 | 2.8 | 0.43 | 1.0 | 0.07 | 0.09 | 0.66 | 0.17 | 20 218 | |
| 30 | 14.07 | 14.07 | 33.358 | 24.905 | 304.6 | 0.092 | 5.92 | 101.1 | 2.6 | 0.43 | 1.0 | 0.07 | 0.09 | 0.68 | 0.18 | 30 217 | |
| 40 | 14.06 | 14.05 | 33.356 | 24.906 | 304.8 | 0.122 | 5.89 | 100.6 | 2.7 | 0.43 | 1.0 | 0.07 | 0.10 | 0.64 | 0.19 | 40 216 | |
| 50 ISL | 14.05 D | 14.04 | 33.357 | 24.909 | 304.8 | 0.153 | 5.89 | 100.5 | 2.7 | 0.44 | 1.1 | 0.08 | 0.11 | 0.60 | 0.19 | 50 215 | |
| 60 | 13.92 | 13.91 | 33.341 | 24.924 | 303.7 | 0.183 | 5.87 | 99.9 | 2.8 | 0.45 | 1.2 | 0.09 | 0.18 | 0.48 | 0.17 | 60 214 | |
| 71 | 12.66 | 12.65 | 33.221 | 25.084 | 288.6 | 0.216 | 5.62 | 93.1 | 5.6 | 0.73 | 5.5 | 0.25 | 0.07 | 0.15 | 0.11 | 71 213 | |
| 75 ISL | 12.14 D | 12.13 | 33.211 D | 25.176 | 279.9 | 0.227 | 5.43 | 89.0 | 7.2 | 0.86 | 7.6 | 0.21 | 0.06 | 0.13 | 0.10 | 75 | |
| 86 | 11.03 | 11.02 | 33.266 | 25.422 | 256.6 | 0.256 | 4.82 | 77.1 | 12.0 | 1.22 | 13.5 | 0.04 | 0.03 | 0.07 | 0.08 | 86 212 | |
| 100 | 10.27 | 10.26 | 33.496 | 25.734 | 227.1 | 0.290 | 4.11 | 64.8 | 18.1 | 1.55 | 19.2 | 0.00 | 0.05 | 0.03 | 0.05 | 100 211 | |
| 120 | 9.92 | 9.91 | 33.697 | 25.951 | 207.0 | 0.334 | 3.43 | 53.7 | 22.7 | 1.80 | 22.7 | 0.00 | 0.05 | 0.01 | 0.04 | 121 210 | |
| 125 ISL | 9.86 D | 9.85 | 33.767 D | 26.016 | 200.9 | 0.344 | 3.20 | 50.1 | 24.1 | 1.87 | 23.6 | 0.00 | 0.05 | 0.01 | 0.04 | 126 | |
| 140 | 9.60 | 9.58 | 33.871 | 26.140 | 189.4 | 0.373 | 2.62 | 40.8 | 27.8 | 2.04 | 25.9 | 0.00 | 0.05 | 0.01 | 0.04 | 141 209 | |
| 150 ISL | 9.43 D | 9.41 | 33.902 D | 26.192 | 184.6 | 0.392 | 2.61 | 40.5 | 29.3 | 2.05 | 26.6 | 0.00 | 0.05 | 0.01 | 0.04 | 151 | |
| 170 | 8.92 | 8.90 | 33.943 | 26.306 | 174.0 | 0.428 | 2.58 | 39.6 | 31.5 | 2.08 | 27.2 | 0.00 | 0.04 | 0.00 | 0.04 | 171 208 | |
| 200 | 8.41 | 8.39 | 34.012 | 26.440 | 161.7 | 0.478 | 2.38 | 36.1 | 35.6 | 2.16 | 28.7 | 0.00 | 0.00 | 0.00 | 0.02 | 201 207 | |
| 228 | 7.99 | 7.97 | 34.033 | 26.520 | 154.5 | 0.522 | 2.21 | 33.2 | 40.3 | 2.26 | 30.3 | 0.00 | 0.01 | | | 229 206 | |
| 250 ISL | 7.71 D | 7.69 | 34.050 D | 26.574 | 149.6 | 0.556 | 1.89 | 28.2 | 44.6 | 2.39 | 32.0 | 0.00 | 0.01 | | | 251 | |
| 269 | 7.54 | 7.51 | 34.085 D | 26.626 | 144.9 | 0.584 | 1.59 | 23.7 | 48.2 | 2.51 | 33.4 | 0.00 | 0.00 | | | 271 205 | |
| 300 ISL | 7.20 D | 7.17 | 34.089 D | 26.678 | 140.3 | 0.628 | 1.34 | 19.8 | 52.2 | 2.62 | 34.6 | 0.00 | 0.00 | | | 302 | |
| 319 | 7.16 | 7.13 | 34.117 | 26.706 | 138.0 | 0.654 | 1.24 | 18.3 | 54.5 | 2.67 | 35.1 | 0.00 | 0.00 | | | 321 204 | |
| 378 | 6.30 | 6.27 | 34.114 | 26.819 | 127.5 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|----------|-------|-------|-----------|-------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 30 46.4 N | 123 20.5 W | 11/01/09 | 1757 | UTC | 4058 m | 020 | 17 kn | 020 03 05 | 0 | 1027.4 mb | 16.9 C | 14.0 C | 26m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 | ISL | 15.51 | 15.51 | 33.253 | 24.514 | 341.0 | 0.000 | 5.73 | 100.7 | 2.4 | 0.35 | 0.0 | 0.00 | 0.00 | 0.22 | 0.09 | 0 |
| 2 | A | 15.51 | 15.51 | 33.253 | 24.515 | 341.1 | 0.007 | 5.73 | 100.7 | 2.4 | 0.35 | 0.0 | 0.00 | 0.00 | 0.22 | 0.09 | 2 222 |
| 8 | | 15.51 | 15.51 | 33.254 | 24.516 | 341.1 | 0.027 | 5.75 | 101.0 | 2.3 | 0.34 | 0.0 | 0.00 | 0.00 | 0.22 | 0.10 | 8 221 |
| 10 | ISL | 15.51 | D 15.51 | 33.253 | D 24.515 | 341.3 | 0.034 | 5.75 | 101.0 | 2.3 | 0.34 | 0.0 | 0.00 | 0.00 | 0.22 | 0.10 | 10 |
| 15 | A | 15.50 | 15.50 | 33.253 | 24.517 | 341.2 | 0.051 | 5.73 | 100.7 | 2.3 | 0.34 | 0.1 | 0.00 | 0.00 | 0.23 | 0.09 | 15 220 |
| 20 | ISL | 15.51 | D 15.51 | 33.252 | D 24.514 | 341.6 | 0.068 | 5.72 | 100.5 | 2.3 | 0.35 | 0.1 | 0.00 | 0.00 | 0.23 | 0.09 | 20 |
| 25 | | 15.50 | 15.50 | 33.252 | 24.517 | 341.6 | 0.085 | 5.72 | 100.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.00 | 0.23 | 0.09 | 25 219 |
| 30 | ISL | 15.50 | D 15.50 | 33.251 | D 24.516 | 341.8 | 0.102 | 5.72 | 100.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.00 | 0.23 | 0.10 | 30 |
| 35 | A | 15.50 | 15.49 | 33.254 | 24.519 | 341.7 | 0.119 | 5.71 | 100.3 | 2.4 | 0.34 | 0.0 | 0.00 | 0.00 | 0.23 | 0.10 | 35 218 |
| 44 | | 15.50 | 15.49 | 33.252 | 24.517 | 342.1 | 0.150 | 5.74 | 100.8 | 2.1 | 0.34 | 0.0 | 0.00 | 0.00 | 0.23 | 0.09 | 44 217 |
| 50 | ISL | 15.50 | D 15.49 | 33.250 | D 24.516 | 342.4 | 0.171 | 5.73 | 100.7 | 2.1 | 0.34 | 0.0 | 0.00 | 0.00 | 0.23 | 0.10 | 50 |
| 53 | A | 15.49 | 15.48 | 33.252 | 24.520 | 342.1 | 0.181 | 5.72 | 100.5 | 2.2 | 0.34 | 0.0 | 0.00 | 0.00 | 0.23 | 0.10 | 53 216 |
| 62 | | 15.50 | 15.49 | 33.252 | 24.518 | 342.6 | 0.212 | 5.75 | 101.0 | 2.3 | 0.33 | 0.0 | 0.00 | 0.00 | 0.23 | 0.09 | 62 215 |
| 73 | A | 15.48 | 15.47 | 33.249 | 24.521 | 342.7 | 0.250 | 5.73 | 100.6 | 2.3 | 0.34 | 0.0 | 0.01 | 0.01 | 0.23 | 0.10 | 73 214 |
| 75 | ISL | 15.13 | D 15.12 | 33.237 | D 24.588 | 336.3 | 0.256 | 5.74 | 100.1 | 2.4 | 0.36 | 0.1 | 0.05 | 0.02 | 0.21 | 0.12 | 75 |
| 85 | | 13.47 | 13.46 | 33.120 | 24.846 | 311.8 | 0.289 | 5.78 | 97.3 | 3.2 | 0.46 | 1.1 | 0.23 | 0.04 | 0.13 | 0.23 | 85 213 |
| 97 | | 12.86 | 12.85 | 33.123 | 24.970 | 300.2 | 0.325 | 5.64 | 93.8 | 4.0 | 0.54 | 2.7 | 0.06 | 0.00 | 0.10 | 0.21 | 97 212 |
| 100 | ISL | 12.70 | D 12.69 | 33.117 | D 24.996 | 297.7 | 0.334 | 5.63 | 93.3 | 4.2 | 0.56 | 3.1 | 0.05 | 0.00 | 0.09 | 0.20 | 100 |
| 112 | A | 12.24 | 12.23 | 33.125 | 25.091 | 288.9 | 0.370 | 5.55 | 91.1 | 5.4 | 0.67 | 5.0 | 0.02 | 0.00 | 0.07 | 0.14 | 112 211 |
| 125 | | 11.61 | 11.59 | 33.228 | 25.289 | 270.3 | 0.406 | 5.27 | 85.4 | 7.5 | 0.87 | 8.3 | 0.01 | 0.01 | 0.04 | 0.07 | 126 210 |
| 139 | | 11.05 | 11.03 | 33.304 | 25.450 | 255.2 | 0.443 | 5.07 | 81.2 | 9.8 | 1.02 | 10.8 | 0.01 | 0.00 | 0.02 | 0.04 | 140 209 |
| 150 | ISL | 10.63 | D 10.61 | 33.360 | D 25.567 | 244.2 | 0.470 | 4.83 | 76.7 | 12.3 | 1.16 | 13.2 | 0.01 | 0.00 | 0.01 | 0.02 | 151 |
| 168 | | 9.94 | 9.92 | 33.576 | 25.854 | 217.2 | 0.512 | 4.35 | 68.1 | 16.8 | 1.38 | 17.2 | 0.00 | 0.00 | 0.00 | 0.01 | 169 208 |
| 200 | ISL | 9.24 | D 9.22 | 33.864 | D 26.194 | 185.3 | 0.576 | 3.47 | 53.6 | 24.6 | 1.73 | 22.9 | 0.00 | 0.00 | 0.00 | 0.01 | 201 |
| 201 | | 9.26 | 9.24 | 33.860 | 26.188 | 186.0 | 0.578 | 3.45 | 53.3 | 24.8 | 1.74 | 23.0 | 0.00 | 0.00 | 0.00 | 0.01 | 202 207 |
| 228 | | 8.78 | 8.76 | 33.944 | 26.330 | 172.8 | 0.626 | 3.15 | 48.2 | 29.3 | 1.87 | 25.1 | 0.00 | 0.02 | | 229 206 | |
| 250 | ISL | 8.37 | D 8.34 | 33.989 | D 26.429 | 163.7 | 0.664 | 2.86 | 43.3 | 34.1 | 2.00 | 27.0 | 0.00 | 0.03 | | 251 | |
| 268 | | 8.03 | 8.00 | 34.015 | 26.500 | 157.1 | 0.692 | 2.59 | 39.0 | 38.4 | 2.13 | 28.6 | 0.00 | 0.03 | | 269 205 | |
| 300 | ISL | 7.48 | D 7.45 | 34.044 | D 26.603 | 147.6 | 0.741 | 2.02 | 30.0 | 46.7 | 2.39 | 31.8 | 0.00 | 0.04 | | 302 | |
| 318 | | 7.20 | 7.17 | 34.066 | 26.660 | 142.3 | 0.767 | 1.72 | 25.4 | 51.1 | 2.53 | 33.5 | 0.00 | 0.04 | | 320 204 | |
| 377 | | 6.63 | 6.60 | 34.107 | 26.770 | 132.4 | 0.848 | 1.23 | 17.9 | 60.4 | 2.76 | 36.0 | 0.00 | 0.04 | | 379 203 | |
| 400 | ISL | 6.44 | D 6.40 | 34.130 | D 26.813 | 128.4 | 0.878 | 1.04 | 15.1 | 64.3 | 2.85 | 37.0 | 0.00 | 0.03 | | 402 | |
| 437 | | 6.12 | 6.08 | 34.164 | 26.882 | 122.2 | 0.926 | 0.76 | 10.9 | 70.5 | 2.98 | 38.6 | 0.00 | 0.00 | | 441 202 | |
| 500 | ISL | 5.77 | D 5.73 | 34.232 | D 26.980 | 113.5 | 0.999 | 0.49 | 7.0 | 78.6 | 3.11 | 40.0 | 0.00 | 0.00 | | 503 | |
| 518 | | 5.70 | 5.66 | 34.239 | 26.994 | 112.3 | 1.019 | 0.41 | 5.8 | 80.9 | 3.15 | 40.4 | 0.00 | 0.00 | | 521 201 | |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 120.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|----------|-------|-------|--------|-------|-----------|--------|--------|--------|------|-------|--------|-----------|
| 30 25.1 N | 123 59.9 W | 11/01/09 | 0948 | UTC | 4328 m | 060 | 15 kn | | | 1026.6 mb | 15.8 C | 12.6 C | 26m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 0 | ISL | 15.76 | 15.76 | 33.312 | 24.504 | 342.0 | 0.000 | 5.69 | 100.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.03 | 0.17 | 0.06 | 0 |
| 2 | | 15.76 | 15.76 | 33.312 | 24.504 | 342.0 | 0.007 | 5.69 | 100.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.03 | 0.17 | 0.06 | 2 220 |
| 10 | | 15.76 | 15.76 | 33.314 | 24.506 | 342.1 | 0.034 | 5.68 | 100.3 | 2.4 | 0.36 | 0.0 | 0.00 | 0.05 | 0.17 | 0.06 | 10 219 |
| 25 | ISL | 15.76 | D 15.76 | 33.304 | D 24.499 | 343.1 | 0.068 | 5.69 | 100.5 | 2.3 | 0.35 | 0.0 | 0.00 | 0.04 | 0.17 | 0.07 | 20 |
| 30 | ISL | 15.77 | D 15.77 | 33.306 | D 24.498 | 343.5 | 0.103 | 5.69 | 100.5 | 2.3 | 0.35 | 0.0 | 0.00 | 0.04 | 0.17 | 0.07 | 30 |
| 40 | | 15.77 | 15.76 | 33.309 | 24.501 | 343.5 | 0.137 | 5.68 | 100.4 | 2.5 | 0.35 | 0.0 | 0.00 | 0.05 | 0.19 | 0.06 | 40 217 |
| 50 | | 15.76 | 15.75 | 33.307 | 24.502 | 343.8 | 0.172 | 5.69 | 100.5 | 2.3 | 0.35 | 0.0 | 0.00 | 0.04 | 0.21 | 0.06 | 50 216 |
| 62 | | 15.76 | 15.75 | 33.305 | 24.501 | 344.2 | 0.213 | 5.67 | 100.1 | 2.1 | 0.35 | 0.0 | 0.00 | 0.00 | 0.22 | 0.08 | 62 215 |
| 74 | | 15.75 | 15.74 | 33.305 | 24.504 | 344.4 | 0.254 | 5.66 | 99.9 | 2.2 | 0.36 | 0.0 | 0.00 | 0.03 | 0.21 | 0.09 | 74 214 |
| 75 | ISL | 15.75 | D 15.74 | 33.307 | D 24.505 | 344.2 | 0.258 | 5.67 | 100.1 | 2.3 | 0.37 | 0.0 | 0.02 | 0.03 | 0.21 | 0.10 | 75 |
| 87 | | 13.60 | 13.59 | 33.176 | 24.863 | 310.2 | 0.297 | 5.75 | 97.1 | 3.2 | 0.44 | 0.7 | 0.23 | 0.05 | 0.16 | 0.24 | 87 213 |
| 99 | | 13.12 | 13.11 | 33.141 | 24.932 | 303.9 | 0.334 | 5.69 | 95.1 | 3.5 | 0.49 | 1.6 | 0.13 | 0.05 | 0.15 | 0.21 | 99 212 |
| 100 | ISL | 13.07 | D 13.06 | 33.135 | D 24.938 | 303.4 | 0.337 | 5.69 | 95.0 | 3.5 | 0.49 | 1.7 | 0.12 | 0.05 | 0.15 | 0.21 | 100 |
| 111 | | 12.65 | 12.64 | 33.116 | 25.005 | 297.1 | 0.370 | 5.60 | 92.7 | 4.2 | 0.58 | 3.1 | 0.03 | 0.04 | 0.09 | 0.18 | 111 211 |
| 125 | | 11.83 | 11.81 | 33.210 | 25.234 | 275.6 | 0.410 | 5.35 | 87.1 | 6.9 | 0.81 | 7.1 | 0.01 | 0.05 | 0.05 | 0.09 | 126 210 |
| 140 | | 11.19 | 11.17 | 33.365 | 25.472 | 253.2 | 0.449 | 5.02 | 80.7 | 9.5 | 0.98 | 10.1 | 0.01 | 0.06 | 0.02 | 0.03 | 141 209 |
| 150 | ISL | 10.76 | D 10.74 | 33.398 | D 25.574 | 243.6 | 0.474 | 4.88 | 77.7 | 10.9 | 1.07 | 11.6 | 0.01 | 0.04 | 0.02 | 0.02 | 151 |
| 165 | | 10.37 | 10.35 | 33.477 | 25.704 | 231.5 | 0.510 | 4.65 | 73.4 | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 91.7 26.4

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|-------|--------|------|------|
| 33 14.9 N | 117 28.1 W | 08/01/09 | 0709 | UTC | 23 m | 060 | 05 kn | | | 1017.2 mb | 12.0 | C 10.8 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 13.87 | 13.87 | 33.341 | 24.933 | 301.2 | 0.000 | 6.11 | 103.9 | 4.4 | 0.38 | 0.4 | 0.06 | 0.09 | 2.00 | 0.55 | 0 | |
| 1 | 13.87 | 13.87 | 33.341 | 24.933 | 301.2 | 0.003 | 6.11 | 103.9 | 4.4 | 0.38 | 0.4 | 0.06 | 0.09 | 2.00 | 0.55 | 1 | 205 |
| 5 | 13.86 | 13.86 | 33.340 | 24.934 | 301.2 | 0.015 | 6.11 | 103.9 | 4.2 | 0.38 | 0.3 | 0.06 | 0.08 | 1.78 | 0.76 | 5 | 204 |
| 10 | 13.84 | 13.84 | 33.340 | 24.938 | 300.9 | 0.030 | 6.09 | 103.5 | 4.3 | 0.38 | 0.4 | 0.06 | 0.05 | 2.09 | 0.53 | 10 | 202 |
| 16 | 13.82 | 13.82 | 33.342 | 24.944 | 300.5 | 0.048 | 6.07 | 103.1 | 4.4 | 0.41 | 0.4 | 0.06 | 0.07 | 1.95 | 0.77 | 16 | 201 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 26.7

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|-------|--------|------|------|
| 32 57.3 N | 117 18.3 W | 08/01/09 | 0236 | UTC | 69 m | 020 | 04 kn | | | 1017.0 mb | 14.9 | C 13.9 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.24 | 14.24 | 33.371 | 24.879 | 306.3 | 0.000 | 6.07 | 104.0 | 3.7 | 0.36 | 0.0 | 0.01 | 0.07 | 1.03 | 0.57 | 0 | |
| 2 | 14.24 | 14.24 | 33.371 | 24.879 | 306.3 | 0.006 | 6.07 | 104.0 | 3.7 | 0.36 | 0.0 | 0.01 | 0.07 | 1.03 | 0.57 | 2 | 208 |
| 6 | 14.23 | 14.23 | 33.369 | 24.880 | 306.4 | 0.018 | 6.06 | 103.8 | 3.6 | 0.36 | 0.0 | 0.01 | 0.03 | 1.08 | 0.63 | 6 | 207 |
| 10 ISL | 14.11 D | 14.11 | 33.365 D | 24.902 | 304.4 | 0.031 | 6.06 | 103.6 | 3.7 | 0.37 | 0.0 | 0.01 | 0.05 | 1.28 | 0.58 | 10 | |
| 11 | 14.11 | 14.11 | 33.369 | 24.905 | 304.1 | 0.034 | 6.06 | 103.6 | 3.7 | 0.37 | 0.0 | 0.01 | 0.06 | 1.33 | 0.56 | 11 | 206 |
| 20 ISL | 14.01 D | 14.01 | 33.356 D | 24.916 | 303.3 | 0.061 | 5.96 | 101.7 | 3.9 | 0.40 | 0.4 | 0.05 | 0.54 | 1.18 | 0.76 | 20 | |
| 21 | 14.00 | 14.00 | 33.360 | 24.921 | 302.9 | 0.064 | 5.95 | 101.5 | 3.9 | 0.40 | 0.5 | 0.05 | 0.59 | 1.16 | 0.78 | 21 | 205 |
| 30 | 13.26 | 13.26 | 33.367 | 25.078 | 288.2 | 0.091 | 5.03 | 84.5 | 7.8 | 0.84 | 5.9 | 0.39 | 0.35 | 0.60 | 0.51 | 30 | 204 |
| 41 | 12.36 | 12.35 | 33.479 | 25.341 | 263.4 | 0.121 | 4.07 | 67.1 | 12.4 | 1.29 | 13.3 | 0.13 | 0.47 | 0.21 | 0.25 | 41 | 203 |
| 50 ISL | 11.91 D | 11.90 | 33.548 D | 25.480 | 250.4 | 0.144 | 3.74 | 61.1 | 14.7 | 1.44 | 15.9 | 0.08 | 0.05 | 0.10 | 0.18 | 50 | |
| 51 | 11.89 | 11.88 | 33.551 | 25.486 | 249.8 | 0.147 | 3.72 | 60.8 | 14.9 | 1.45 | 16.1 | 0.07 | 0.00 | 0.10 | 0.18 | 51 | 202 |
| 59 | 11.68 | 11.67 | 33.592 | 25.557 | 243.2 | 0.166 | 3.58 | 58.2 | 15.9 | 1.51 | 17.2 | 0.09 | 0.04 | 0.06 | 0.14 | 59 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 28.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|------|----------|--------|-------|--------|------|------|
| 32 54.8 N | 117 23.9 W | 08/01/09 | 1008 | UTC | 630 m | 070 | 02 kn | | | 1016.8 mb | 14.0 | C 12.9 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | uM/L | ug/l | ug/l | db | |
| 0 ISL | 14.16 | 14.16 | 33.364 | 24.890 | 305.2 | 0.000 | 6.02 | 103.0 | 3.6 | 0.35 | 0.0 | 0.01 | 0.01 | 1.08 | 0.52 | 0 | |
| 2 | 14.16 | 14.16 | 33.364 | 24.890 | 305.3 | 0.006 | 6.02 | 103.0 | 3.6 | 0.35 | 0.0 | 0.01 | 0.01 | 1.08 | 0.52 | 2 | 220 |
| 10 | 14.15 | 14.15 | 33.370 | 24.897 | 304.8 | 0.031 | 6.03 | 103.2 | 3.7 | 0.35 | 0.0 | 0.01 | 0.00 | 1.11 | 0.54 | 10 | 219 |
| 19 | 14.13 | 14.13 | 33.365 | 24.898 | 305.0 | 0.058 | 6.03 | 103.1 | 3.6 | 0.35 | 0.0 | 0.00 | 0.00 | 1.24 | 0.50 | 19 | 218 |
| 20 ISL | 14.12 D | 14.12 | 33.363 D | 24.899 | 305.0 | 0.061 | 6.02 | 102.9 | 3.6 | 0.35 | 0.0 | 0.00 | 0.00 | 1.23 | 0.50 | 20 | |
| 30 | 14.06 | 14.06 | 33.369 | 24.916 | 303.6 | 0.091 | 5.91 | 100.9 | 3.8 | 0.39 | 0.5 | 0.04 | 0.01 | 1.14 | 0.55 | 30 | 217 |
| 39 | 12.48 | 12.47 | 33.369 | 25.233 | 273.7 | 0.117 | 4.78 | 79.0 | 8.6 | 1.01 | 9.6 | 0.03 | 0.00 | 0.26 | 0.31 | 39 | 216 |
| 50 | 11.71 | 11.70 | 33.444 | 25.437 | 254.5 | 0.146 | 4.36 | 70.9 | 12.2 | 1.27 | 14.0 | 0.03 | 0.04 | 0.12 | 0.18 | 50 | 215 |
| 60 | 11.43 | 11.42 | 33.499 | 25.531 | 245.7 | 0.171 | 4.13 | 66.8 | 14.0 | 1.38 | 15.7 | 0.02 | 0.00 | 0.07 | 0.13 | 60 | 214 |
| 69 | 11.17 | 11.16 | 33.566 | 25.630 | 236.5 | 0.193 | 3.89 | 62.6 | 15.7 | 1.47 | 17.2 | 0.02 | 0.00 | 0.05 | 0.11 | 69 | 213 |
| 75 ISL | 11.03 D | 11.02 | 33.599 D | 25.681 | 231.7 | 0.207 | 3.64 | 58.4 | 17.0 | 1.55 | 18.3 | 0.02 | 0.02 | 0.03 | 0.09 | 75 | |
| 84 | 11.03 | 11.02 | 33.718 | 25.774 | 223.1 | 0.228 | 3.25 | 52.2 | 18.9 | 1.67 | 19.8 | 0.01 | 0.04 | 0.01 | 0.07 | 84 | 212 |
| 100 | 10.64 | 10.63 | 33.809 | 25.914 | 210.1 | 0.262 | 2.83 | 45.1 | 22.3 | 1.82 | 22.2 | 0.01 | 0.01 | 0.01 | 0.05 | 101 | 211 |
| 119 | 10.32 | 10.31 | 33.902 | 26.043 | 198.3 | 0.301 | 2.46 | 38.9 | 25.7 | 1.98 | 24.1 | 0.01 | 0.02 | 0.00 | 0.05 | 120 | 210 |
| 125 ISL | 10.28 D | 10.27 | 33.932 D | 26.073 | 195.6 | 0.313 | 2.35 | 37.2 | 26.8 | 2.03 | 24.6 | 0.01 | 0.02 | 0.00 | 0.05 | 126 | |
| 139 | 10.03 | 10.01 | 33.992 | 26.163 | 187.3 | 0.340 | 2.14 | 33.7 | 29.0 | 2.12 | 25.5 | 0.01 | 0.01 | 0.00 | 0.05 | 140 | 209 |
| 150 ISL | 9.87 D | 9.85 | 34.030 D | 26.220 | 182.1 | 0.360 | 2.04 | 32.0 | 30.2 | 2.16 | 26.1 | 0.01 | 0.01 | 0.00 | 0.05 | 151 | |
| 169 | 9.70 | 9.68 | 34.076 | 26.284 | 176.4 | 0.394 | 1.91 | 29.8 | 31.9 | 2.22 | 27.0 | 0.01 | 0.02 | 0.00 | 0.04 | 170 | 208 |
| 200 | 9.42 | 9.40 | 34.152 | 26.390 | 166.9 | 0.447 | 1.73 | 26.9 | 34.9 | 2.32 | 28.0 | 0.01 | 0.10 | 0.00 | 0.04 | 201 | 207 |
| 228 | 9.08 | 9.06 | 34.214 | 26.494 | 157.5 | 0.493 | 1.39 | 21.4 | 39.5 | 2.47 | 29.6 | 0.01 | 0.04 | | 229 | 206 | |
| 250 ISL | 8.89 D | 8.86 | 34.221 D | 26.530 | 154.4 | 0.527 | 1.32 | 20.3 | 41.3 | 2.51 | 30.1 | 0.00 | 0.01 | | 251 | | |
| 268 | 8.77 | 8.74 | 34.236 | 26.561 | 151.8 | 0.555 | 1.29 | 19.8 | 42.5 | 2.53 | 30.4 | 0.00 | 0.00 | | 270 | 205 | |
| 300 ISL | 8.42 D | 8.39 | 34.251 D | 26.627 | 145.9 | 0.602 | 1.08 | 16.4 | 46.2 | 2.63 | 31.7 | 0.00 | 0.01 | | 302 | | |
| 317 | 8.28 | 8.25 | 34.261 | 26.657 | 143.4 | 0.627 | 0.97 | 14.7 | 48.4 | 2.69 | 32.5 | 0.00 | 0.01 | | 319 | 204 | |
| 377 | 7.62 | 7.58 | 34.254 | 26.749 | 135.2 | 0.710 | 0.81 | 12.1 | 55.6 | 2.82 | 34.6 | 0.00 | 0.04 | | 379 | 203 | |
| 400 ISL | 7.40 D | 7.36 | 34.264 D | 26.789 | 131.7 | 0.741 | 0.73 | 10.8 | 58.2 | 2.87 | 35.2 | 0.00 | 0.03 | | 403 | | |
| 438 | 7.09 | 7.05 | 34.267 | 26.835 | 127.7 | 0.790 | 0.59 | 8.7 | 62.7 | 2.95 | 36.1 | 0.00 | 0.01 | | 441 | 202 | |
| 500 ISL | 6.57 D | 6.52 | 34.291 D | 26.925 | 119.6 | 0.867 | 0.41 | 6.0 | 72.4 | 3.10 | 38.2 | 0.01 | 0.03 | | 503 | | |
| 520 | 6.32 | 6.27 | 34.301 | 26.965 | 115.8 | 0.891 | 0.35 | 5.1 | 75.5 | 3.15 | 38.9 | 0.01 | 0.04 | | 524 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 30.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|----------|-------|-------|--------|-------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 | ISL | 14.37 | 14.37 | 33.385 | 24.863 | 307.9 | 0.000 | 5.98 | 102.8 | 2.6 | 0.36 | 0.0 | 0.00 | 0.02 | 0.86 | 0.29 | 0 |
| 2 | | 14.37 | 14.37 | 33.385 | 24.863 | 307.9 | 0.006 | 5.98 | 102.8 | 2.6 | 0.36 | 0.0 | 0.00 | 0.02 | 0.86 | 0.29 | 2 220 |
| 9 | | 14.37 | 14.37 | 33.384 | 24.862 | 308.2 | 0.028 | 5.98 | 102.8 | 2.5 | 0.36 | 0.0 | 0.00 | 0.01 | 0.86 | 0.31 | 9 219 |
| 10 | ISL | 14.37 | D 14.37 | 33.382 | D 24.860 | 308.3 | 0.031 | 5.98 | 102.8 | 2.5 | 0.36 | 0.0 | 0.00 | 0.01 | 0.86 | 0.31 | 10 |
| 19 | | 14.36 | 14.36 | 33.384 | 24.865 | 308.2 | 0.059 | 5.98 | 102.7 | 2.7 | 0.36 | 0.0 | 0.00 | 0.02 | 0.94 | 0.30 | 19 218 |
| 20 | ISL | 14.36 | D 14.36 | 33.381 | D 24.862 | 308.5 | 0.062 | 5.98 | 102.7 | 2.7 | 0.36 | 0.0 | 0.00 | 0.02 | 0.97 | 0.32 | 20 |
| 29 | | 14.15 | 14.15 | 33.371 | 24.899 | 305.2 | 0.089 | 5.97 | 102.1 | 3.2 | 0.38 | 0.2 | 0.03 | 0.07 | 1.16 | 0.56 | 29 217 |
| 30 | ISL | 14.13 | D 14.13 | 33.367 | D 24.900 | 305.2 | 0.092 | 5.97 | 102.1 | 3.3 | 0.38 | 0.2 | 0.03 | 0.07 | 1.15 | 0.57 | 30 |
| 40 | | 13.86 | 13.85 | 33.356 | 24.948 | 300.9 | 0.123 | 6.01 | 102.2 | 3.9 | 0.41 | 0.4 | 0.06 | 0.11 | 1.00 | 0.65 | 40 216 |
| 50 | | 13.07 | 13.06 | 33.374 | 25.121 | 284.6 | 0.152 | 4.90 | 82.0 | 7.3 | 0.92 | 7.7 | 0.13 | 0.02 | 0.35 | 0.33 | 50 215 |
| 59 | | 12.52 | 12.51 | 33.446 | 25.285 | 269.2 | 0.177 | 4.37 | 72.3 | 10.3 | 1.16 | 11.5 | 0.04 | 0.00 | 0.24 | 0.30 | 59 214 |
| 69 | | 12.02 | 12.01 | 33.544 | 25.457 | 253.1 | 0.203 | 3.95 | 64.7 | 13.3 | 1.34 | 14.6 | 0.02 | 0.02 | 0.14 | 0.22 | 69 213 |
| 75 | ISL | 11.84 | D 11.83 | 33.586 | D 25.523 | 246.9 | 0.218 | 3.83 | 62.5 | 14.7 | 1.43 | 16.2 | 0.02 | 0.02 | 0.10 | 0.18 | 75 |
| 85 | | 11.09 | 11.08 | 33.604 | 25.675 | 232.6 | 0.242 | 3.71 | 59.6 | 16.7 | 1.54 | 18.2 | 0.02 | 0.03 | 0.06 | 0.14 | 85 212 |
| 99 | | 10.81 | 10.80 | 33.670 | 25.776 | 223.2 | 0.274 | 3.45 | 55.1 | 19.0 | 1.66 | 19.8 | 0.01 | 0.01 | 0.04 | 0.12 | 99 211 |
| 100 | ISL | 10.81 | D 10.80 | 33.676 | D 25.781 | 222.8 | 0.276 | 3.43 | 54.8 | 19.1 | 1.67 | 19.9 | 0.01 | 0.01 | 0.04 | 0.12 | 100 |
| 119 | | 10.36 | 10.35 | 33.776 | 25.938 | 208.3 | 0.317 | 3.05 | 48.3 | 22.2 | 1.81 | 22.2 | 0.01 | 0.07 | 0.01 | 0.06 | 120 210 |
| 125 | ISL | 10.18 | D 10.17 | 33.832 | D 26.012 | 201.3 | 0.329 | 2.90 | 45.7 | 23.6 | 1.87 | 22.9 | 0.01 | 0.06 | 0.01 | 0.06 | 126 |
| 139 | | 9.97 | 9.95 | 33.911 | 26.110 | 192.3 | 0.357 | 2.56 | 40.2 | 26.9 | 1.99 | 24.4 | 0.01 | 0.02 | 0.00 | 0.06 | 140 209 |
| 150 | ISL | 9.88 | D 9.86 | 33.964 | D 26.167 | 187.2 | 0.378 | 2.38 | 37.3 | 28.3 | 2.05 | 25.2 | 0.01 | 0.03 | 0.00 | 0.05 | 151 |
| 169 | | 9.72 | 9.70 | 34.050 | 26.261 | 178.6 | 0.412 | 2.13 | 33.3 | 30.3 | 2.15 | 26.2 | 0.01 | 0.04 | 0.00 | 0.04 | 170 208 |
| 200 | | 9.41 | 9.39 | 34.154 | 26.394 | 166.6 | 0.466 | 1.69 | 26.2 | 35.3 | 2.34 | 28.3 | 0.01 | 0.09 | 0.00 | 0.04 | 201 207 |
| 228 | | 9.17 | 9.14 | 34.195 | 26.465 | 160.3 | 0.512 | 1.54 | 23.8 | 38.2 | 2.41 | 29.2 | 0.01 | 0.02 | | 229 206 | |
| 250 | ISL | 8.95 | D 8.92 | 34.222 | D 26.521 | 155.3 | 0.546 | 1.42 | 21.8 | 40.8 | 2.47 | 30.1 | 0.00 | 0.01 | | 251 | |
| 266 | | 8.67 | 8.64 | 34.222 | 26.566 | 151.3 | 0.571 | 1.33 | 20.3 | 42.7 | 2.52 | 30.7 | 0.00 | 0.01 | | 268 205 | |
| 300 | ISL | 8.46 | D 8.43 | 34.252 | D 26.622 | 146.5 | 0.622 | 1.08 | 16.4 | 46.8 | 2.63 | 31.9 | 0.00 | 0.03 | | 302 | |
| 317 | | 8.28 | 8.25 | 34.260 | 26.656 | 143.5 | 0.646 | 0.96 | 14.5 | 48.8 | 2.69 | 32.4 | 0.00 | 0.04 | | 319 204 | |
| 377 | | 7.65 | 7.61 | 34.267 | 26.755 | 134.7 | 0.730 | 0.74 | 11.0 | 56.2 | 2.85 | 34.4 | 0.02 | 0.06 | | 379 203 | |
| 400 | ISL | 7.33 | D 7.29 | 34.256 | D 26.792 | 131.3 | 0.760 | 0.68 | 10.1 | 58.9 | 2.89 | 35.0 | 0.01 | 0.04 | | 403 | |
| 437 | | 7.03 | 6.99 | 34.264 | 26.841 | 127.0 | 0.808 | 0.59 | 8.7 | 63.4 | 2.96 | 36.1 | 0.00 | 0.00 | | 440 202 | |
| 500 | ISL | 6.32 | D 6.27 | 34.279 | D 26.948 | 117.2 | 0.885 | 0.41 | 5.9 | 73.1 | 3.09 | 38.4 | 0.01 | 0.02 | | 503 | |
| 518 | | 6.20 | 6.15 | 34.290 | 26.972 | 115.0 | 0.906 | 0.36 | 5.2 | 75.9 | 3.13 | 39.0 | 0.01 | 0.03 | | 522 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|--------|----------|-------|-------|--------|-------|-----------|------|------|--------|------|-------|--------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 | ISL | 14.40 | 14.40 | 33.380 | 24.852 | 308.8 | 0.000 | 5.96 | 102.5 | 2.8 | 0.35 | 0.0 | 0.01 | 0.01 | 0.47 | 0.14 | 0 |
| 1 | A | 14.40 | 14.40 | 33.380 | 24.852 | 308.8 | 0.003 | 5.96 | 102.5 | 2.8 | 0.35 | 0.0 | 0.01 | 0.01 | 0.47 | 0.14 | 1 222 |
| 10 | ISL | 14.34 | D 14.34 | 33.374 | D 24.861 | 308.3 | 0.031 | 5.99 | 102.9 | 2.7 | 0.35 | 0.0 | 0.00 | 0.00 | 0.71 | 0.21 | 10 |
| 11 | A | 14.31 | 14.31 | 33.377 | 24.869 | 307.5 | 0.034 | 5.99 | 102.8 | 2.7 | 0.35 | 0.0 | 0.00 | 0.00 | 0.76 | 0.23 | 11 221 |
| 18 | | 14.26 | 14.26 | 33.371 | 24.875 | 307.2 | 0.055 | 5.99 | 102.7 | 2.8 | 0.36 | 0.0 | 0.02 | 0.00 | 1.15 | 0.38 | 18 220 |
| 20 | ISL | 14.23 | D 14.23 | 33.365 | D 24.877 | 307.0 | 0.062 | 5.95 | 101.9 | 3.0 | 0.37 | 0.1 | 0.05 | 0.01 | 1.11 | 0.41 | 20 |
| 27 | A | 14.10 | 14.10 | 33.356 | 24.898 | 305.3 | 0.083 | 5.77 | 98.6 | 3.7 | 0.45 | 1.1 | 0.20 | 0.04 | 0.79 | 0.46 | 27 219 |
| 30 | ISL | 14.04 | D 14.04 | 33.353 | D 24.908 | 304.4 | 0.092 | 5.68 | 96.9 | 4.0 | 0.50 | 1.7 | 0.25 | 0.04 | 0.67 | 0.47 | 30 |
| 32 | | 13.86 | 13.86 | 33.350 | 24.943 | 301.1 | 0.098 | 5.62 | 95.6 | 4.3 | 0.54 | 2.2 | 0.28 | 0.04 | 0.61 | 0.48 | 32 218 |
| 38 | A | 13.62 | 13.61 | 33.335 | 24.980 | 297.7 | 0.116 | 5.43 | 91.9 | 5.3 | 0.67 | 3.9 | 0.27 | 0.01 | 0.57 | 0.47 | 38 217 |
| 46 | | 12.82 | 12.81 | 33.370 | 25.168 | 280.0 | 0.139 | 4.80 | 79.9 | 8.4 | 1.00 | 8.9 | 0.04 | 0.00 | 0.17 | 0.29 | 46 216 |
| 50 | ISL | 12.46 | D 12.45 | 33.430 | D 25.284 | 269.0 | 0.150 | 4.54 | 75.0 | 10.0 | 1.13 | 11.0 | 0.03 | 0.00 | 0.11 | 0.23 | 50 |
| 52 | A | 12.36 | 12.35 | 33.446 | 25.316 | 266.1 | 0.156 | 4.42 | 72.9 | 10.7 | 1.18 | 11.9 | 0.02 | 0.00 | 0.10 | 0.21 | 52 215 |
| 67 | | 11.68 | 11.67 | 33.568 | 25.539 | 245.2 | 0.194 | 3.87 | 62.9 | 14.3 | 1.41 | 15.8 | 0.02 | 0.00 | 0.05 | 0.15 | 67 214 |
| 75 | ISL | 11.51 | D 11.50 | 33.606 | D 25.600 | 239.6 | 0.213 | 3.70 | 60.0 | 15.4 | 1.50 | 17.0 | 0.01 | 0.00 | 0.04 | 0.11 | 75 |
| 81 | A | 11.40 | 11.39 | 33.644 | 25.650 | 235.0 | 0.228 | 3.58 | 57.9 | 16.3 | 1.55 | 17.8 | 0.01 | 0.00 | 0.03 | 0.09 | 81 213 |
| 90 | | 11.14 | 11.13 | 33.697 | 25.738 | 226.7 | 0.248 | 3.34 | 53.7 | 18.5 | 1.63 | 19.0 | 0.01 | 0.03 | 0.01 | 0.06 | 90 212 |
| 100 | | 10.90 | 10.89 | 33.750 | 25.823 | 218.9 | 0.271 | 3.06 | 49.0 | 20.2 | 1.75 | 20.5 | 0.01 | 0.00 | 0.01 | 0.06 | 100 211 |
| 119 | | 10.41 | 10.40 | 33.868 | 26.001 | 202.3 | 0.311 | 2.63 | 41.7 | 23.8 | 1.93 | 23.0 | 0.00 | 0.01 | 0.01 | 0.05 | 120 210 |
| 125 | ISL | 10.29 | D 10.28 | 33.907 | D 26.052 | 197.6 | 0.323 | 2.51 | 39.7 | 25.0 | 1.98 | 23.7 | 0.00 | 0.01 | 0.01 | 0.05 | 126 |
| 139 | | 10.05 | 10.03 | 33.964 | 26.138 | 189.7 | 0.350 | 2.27 | 35.7 | 27.5 | 2.09 | 25.0 | 0.00 | 0.00 | 0.00 | 0.04 | 140 209 |
| 150 | ISL | 9.98 | D 9.96 | 33.992 | D 26.172 | 186.7 | 0.370 | 2.18 | 34.3 | 28.8 | 2.12 | 25.6 | 0.00 | 0.00 | 0.00 | 0.04 | 151 |
| 168 | | 9.74 | 9.72 | 34.051 | 26.258 | 178.8 | 0.403 | 2.10 | 32.8 | 30.5 | 2.15 | 26.2 | 0.00 | 0.00 | 0.01 | 0.05 | 169 208 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 40.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|-------|--------|-----------|
| 32 30.9 N | 118 12.9 W | 08/01/09 | 2147 | UTC | 1645 m | 300 | 14 kn | 290 02 05 | 1 | 1015.2 mb | 13.2 C | 12.8 C | 09m | 6/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db |
| 0 ISL | 14.63 | 14.63 | 33.393 | 24.814 | 312.5 | 0.000 | 6.05 | 104.5 | 1.9 | 0.36 | 0.0 | 0.00 | 0.00 | 1.05 | 0.35 | 0 |
| 2 | 14.63 | 14.63 | 33.393 | 24.814 | 312.6 | 0.006 | 6.05 | 104.5 | 1.9 | 0.36 | 0.0 | 0.00 | 0.00 | 1.05 | 0.35 | 2 221 |
| 9 | 14.62 | 14.62 | 33.395 | 24.818 | 312.4 | 0.028 | 6.06 | 104.7 | 2.0 | 0.37 | 0.0 | 0.01 | 0.00 | 1.05 | 0.38 | 9 219 |
| 9 | 14.62 | 14.62 | 33.395 | 24.818 | 312.4 | 0.028 | | | | | | | | | | 9 220 |
| 10 ISL | 14.61 D | 14.61 | 33.392 D | 24.817 | 312.5 | 0.031 | 6.06 | 104.7 | 2.0 | 0.37 | 0.0 | 0.01 | 0.00 | 1.05 | 0.38 | 10 |
| 20 | 14.55 | 14.55 | 33.399 | 24.836 | 311.0 | 0.062 | 6.03 | 104.0 | 1.8 | 0.36 | 0.0 | 0.01 | 0.00 | 1.04 | 0.42 | 20 218 |
| 30 | 14.53 | 14.53 | 33.398 | 24.840 | 310.9 | 0.094 | 5.98 | 103.1 | 2.0 | 0.37 | 0.0 | 0.01 | 0.01 | 1.29 | 0.46 | 30 217 |
| 40 | 13.15 | 13.14 | 33.349 | 25.086 | 287.7 | 0.123 | 5.05 | 84.6 | 6.7 | 0.85 | 6.4 | 0.12 | 0.00 | 0.73 | 0.45 | 40 216 |
| 50 | 12.48 | 12.47 | 33.361 | 25.227 | 274.5 | 0.152 | 4.83 | 79.8 | 8.9 | 1.03 | 9.6 | 0.05 | 0.00 | 0.34 | 0.43 | 50 215 |
| 59 | 12.30 | 12.29 | 33.439 | 25.322 | 265.6 | 0.176 | 4.49 | 73.9 | 10.7 | 1.17 | 11.9 | 0.04 | 0.00 | 0.17 | 0.26 | 59 214 |
| 70 | 11.83 | 11.82 | 33.576 | 25.517 | 247.3 | 0.204 | 3.87 | 63.1 | 14.2 | 1.40 | 15.5 | 0.02 | 0.00 | 0.05 | 0.10 | 70 213 |
| 75 ISL | 11.49 D | 11.48 | 33.629 D | 25.621 | 237.5 | 0.216 | 3.69 | 59.8 | 15.4 | 1.47 | 16.6 | 0.02 | 0.00 | 0.04 | 0.09 | 75 |
| 85 | 11.31 | 11.30 | 33.674 | 25.690 | 231.2 | 0.240 | 3.42 | 55.2 | 17.5 | 1.59 | 18.4 | 0.01 | 0.00 | 0.03 | 0.07 | 85 212 |
| 100 ISL | 10.91 D | 10.90 | 33.769 D | 25.836 | 217.7 | 0.273 | 3.01 | 48.2 | 20.5 | 1.76 | 20.8 | 0.01 | 0.00 | 0.01 | 0.06 | 100 |
| 101 | 10.89 | 10.88 | 33.775 | 25.844 | 216.9 | 0.275 | 2.98 | 47.7 | 20.7 | 1.77 | 20.9 | 0.01 | 0.00 | 0.01 | 0.06 | 101 211 |
| 120 | 10.36 | 10.35 | 33.886 | 26.023 | 200.2 | 0.315 | 2.55 | 40.4 | 25.0 | 1.96 | 23.4 | 0.00 | 0.00 | 0.00 | 0.04 | 121 210 |
| 125 ISL | 10.24 D | 10.23 | 33.937 D | 26.084 | 194.5 | 0.325 | 2.47 | 39.0 | 25.8 | 2.00 | 23.8 | 0.00 | 0.00 | 0.00 | 0.04 | 126 |
| 140 | 10.06 | 10.04 | 33.972 | 26.142 | 189.3 | 0.354 | 2.26 | 35.6 | 28.0 | 2.08 | 24.9 | 0.00 | 0.00 | 0.00 | 0.03 | 141 209 |
| 150 ISL | 9.87 D | 9.85 | 34.035 D | 26.224 | 181.7 | 0.372 | 2.16 | 33.9 | 29.3 | 2.13 | 25.4 | 0.00 | 0.00 | 0.00 | 0.03 | 151 |
| 168 | 9.75 | 9.73 | 34.085 | 26.283 | 176.5 | 0.405 | 2.01 | 31.4 | 31.4 | 2.20 | 26.3 | 0.01 | 0.00 | 0.00 | 0.03 | 169 208 |
| 200 | 9.31 | 9.29 | 34.168 | 26.421 | 163.9 | 0.459 | 1.73 | 26.8 | 35.6 | 2.34 | 28.1 | 0.00 | 0.01 | 0.00 | 0.03 | 201 207 |
| 227 | 9.06 | 9.04 | 34.206 | 26.491 | 157.7 | 0.502 | 1.49 | 23.0 | 38.9 | 2.45 | 29.3 | 0.00 | 0.00 | | | 228 206 |
| 250 ISL | 8.80 D | 8.77 | 34.223 D | 26.546 | 152.9 | 0.538 | 1.36 | 20.8 | 41.8 | 2.53 | 30.3 | 0.00 | 0.01 | | | 251 |
| 268 | 8.40 | 8.37 | 34.223 | 26.608 | 147.1 | 0.565 | | | 44.1 | 2.58 | 31.1 | 0.00 | 0.02 | | | 270 205 |
| 300 ISL | 8.06 D | 8.03 | 34.217 D | 26.655 | 143.1 | 0.612 | 1.13 | 17.0 | 48.4 | 2.67 | 32.3 | 0.00 | 0.01 | | | 302 |
| 319 | 7.86 | 7.83 | 34.226 | 26.692 | 139.8 | 0.638 | 1.06 | 15.9 | 50.9 | 2.72 | 33.0 | 0.00 | 0.00 | | | 321 204 |
| 377 | 7.30 | 7.26 | 34.250 | 26.792 | 131.0 | 0.717 | 0.73 | 10.8 | 58.5 | 2.89 | 35.0 | 0.00 | 0.01 | | | 379 203 |
| 400 ISL | 7.02 D | 6.98 | 34.232 D | 26.816 | 128.7 | 0.747 | 0.63 | 9.3 | 61.2 | 2.94 | 35.6 | 0.00 | 0.01 | | | 403 |
| 438 | 6.93 | 6.89 | 34.275 | 26.863 | 124.9 | 0.795 | 0.49 | 7.2 | 65.5 | 3.02 | 36.4 | 0.00 | 0.00 | | | 441 202 |
| 500 ISL | 6.52 D | 6.47 | 34.302 D | 26.940 | 118.1 | 0.870 | 0.39 | 5.7 | 72.0 | 3.12 | 37.9 | 0.00 | 0.00 | | | 503 |
| 514 | 6.43 | 6.38 | 34.293 | 26.945 | 117.8 | 0.887 | 0.37 | 5.4 | 73.5 | 3.14 | 38.2 | 0.00 | 0.00 | | | 518 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 45.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|-----------|
| 32 20.8 N | 118 33.2 W | 09/01/09 | 0150 | UTC | 1335 m | 330 | 10 kn | | | 1014.2 mb | 13.0 C | 11.1 C | 09m | 6/8 | SC | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db |
| 0 ISL | 13.62 | 13.62 | 33.359 | 24.998 | 295.0 | 0.000 | 6.04 | 102.2 | 2.8 | 0.46 | 1.0 | 0.06 | 0.17 | 0.62 | 0.19 | 0 |
| 2 | 13.62 | 13.62 | 33.359 | 24.998 | 295.0 | 0.006 | 6.04 | 102.2 | 2.8 | 0.46 | 1.0 | 0.06 | 0.17 | 0.62 | 0.19 | 2 220 |
| 10 ISL | 13.62 D | 13.62 | 33.356 D | 24.996 | 295.4 | 0.030 | 6.05 | 102.4 | 2.9 | 0.47 | 1.0 | 0.06 | 0.22 | 0.60 | 0.18 | 10 |
| 11 | 13.62 | 13.62 | 33.360 | 24.999 | 295.2 | 0.032 | 6.05 | 102.4 | 2.9 | 0.47 | 1.0 | 0.06 | 0.23 | 0.60 | 0.18 | 11 219 |
| 20 ISL | 13.59 D | 13.59 | 33.351 D | 24.998 | 295.5 | 0.059 | 6.03 | 102.0 | 3.0 | 0.47 | 1.1 | 0.06 | 0.20 | 0.63 | 0.25 | 20 |
| 21 | 13.59 | 13.59 | 33.357 | 25.003 | 295.1 | 0.062 | 6.03 | 102.0 | 3.0 | 0.47 | 1.1 | 0.06 | 0.20 | 0.64 | 0.26 | 21 218 |
| 30 ISL | 13.33 D | 13.33 | 33.332 D | 25.036 | 292.1 | 0.088 | 5.94 | 99.9 | 4.0 | 0.53 | 2.0 | 0.10 | 0.25 | 0.69 | 0.33 | 30 |
| 31 | 13.33 | 13.33 | 33.335 | 25.039 | 291.9 | 0.091 | 5.93 | 99.7 | 4.2 | 0.54 | 2.2 | 0.11 | 0.26 | 0.70 | 0.33 | 31 217 |
| 41 | 13.01 | 13.00 | 33.349 | 25.114 | 285.0 | 0.120 | 5.42 | 90.5 | 6.4 | 0.74 | 5.2 | 0.18 | 0.28 | 0.34 | 0.30 | 41 216 |
| 50 ISL | 11.99 D | 11.98 | 33.380 D | 25.335 | 264.2 | 0.145 | 4.71 | 77.0 | 11.0 | 1.08 | 11.5 | 0.07 | 0.05 | 0.18 | 0.24 | 50 |
| 51 | 11.92 | 11.91 | 33.387 | 25.353 | 262.4 | 0.148 | 4.64 | 75.8 | 11.5 | 1.12 | 12.2 | 0.05 | 0.02 | 0.17 | 0.23 | 51 215 |
| 61 | 11.30 | 11.29 | 33.410 | 25.485 | 250.0 | 0.173 | 4.41 | 71.1 | 13.6 | 1.27 | 14.8 | 0.02 | 0.00 | 0.11 | 0.19 | 61 214 |
| 71 | 11.31 | 11.30 | 33.560 | 25.601 | 239.4 | 0.198 | 3.91 | 63.1 | 15.5 | 1.40 | 16.7 | 0.03 | 0.00 | 0.06 | 0.15 | 71 213 |
| 75 ISL | 11.33 D | 11.32 | 33.608 D | 25.634 | 236.3 | 0.207 | 3.79 | 61.2 | 16.3 | 1.45 | 17.4 | 0.03 | 0.00 | 0.05 | 0.14 | 75 |
| 86 | 10.89 | 10.88 | 33.653 | 25.749 | 225.6 | 0.233 | 3.52 | 56.3 | 18.6 | 1.58 | 19.2 | 0.01 | 0.00 | 0.03 | 0.11 | 86 212 |
| 100 ISL | 10.75 D | 10.74 | 33.738 D | 25.840 | 217.2 | 0.264 | 3.13 | 49.9 | 21.4 | 1.72 | 21.0 | 0.00 | 0.01 | 0.02 | 0.08 | 100 |
| 101 | 10.67 | 10.66 | 33.758 | 25.869 | 214.4 | 0.266 | 3.10 | 49.4 | 21.6 | 1.73 | 21.1 | 0.00 | 0.01 | 0.02 | 0.08 | 102 211 |
| 120 | 10.30 | 10.29 | 33.857 | 26.011 | 201.3 | 0.305 | 2.70 | 42.7 | 25.0 | 1.89 | 23.3 | 0.00 | 0.00 | 0.01 | 0.06 | 121 210 |
| 125 ISL | 10.19 D | 10.18 | 33.929 D | 26.086 | 194.3 | 0.315 | 2.59 | 40.9 | 25.8 | 1.93 | 23.7 | 0.00 | 0.01 | 0.01 | 0.06 | 126 |
| 140 | 10.09 | 10.07 | 33.965 | 26.132 | 190.3 | 0.344 | 2.30 | 36.2 | 28.0 | 2.03 | 24.7 | 0.00 | 0.04 | 0.01 | 0.05 | 141 209 |
| 150 ISL | 9.89 D | 9.87 | 34.026 D | 26.213 | 182.7 | 0.363 | 2.18 | 34.2 | 29.4 | 2.08 | 25.3 | 0.00 | 0.03 | 0.01 | 0.05 | 151 |
| 170 | 9.72 | 9.70 | 34.086 | 26.289 | 176.0 | 0.398 | 2.03 | 31.7 | 31.9 | 2.15 | 26.4 | 0.00 | 0.00 | 0.01 | 0.04 | 171 208 |
| 200 ISL | 9.37 D | 9.35 | 34.148 D | 26.395 | 166.4 | 0.450 | 1.85 | 28.7 | 35.1 | 2.24 | 27.8 | 0.00 | 0.01 | 0.00 | 0.03 | 201 |
| 201 | 9.37 | 9.35 | 34.153 | 26.399 | 166.0 | 0. | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 50.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.17 | 14.17 | 33.364 | 24.888 | 305.4 | 0.000 | 6.00 | 102.7 | 1.7 | 0.35 | 0.0 | 0.01 | 0.00 | 1.00 | 0.34 | 0 | |
| 1 | 14.17 | 14.17 | 33.364 | 24.888 | 305.4 | 0.003 | 6.00 | 102.7 | 1.7 | 0.35 | 0.0 | 0.01 | 0.00 | 1.00 | 0.34 | 1 220 | |
| 10 ISL | 14.16 | 14.16 | 33.363 | 24.890 | 305.5 | 0.031 | 6.00 | 102.7 | 1.7 | 0.38 | 0.0 | 0.01 | 0.00 | 1.02 | 0.33 | 10 | |
| 11 | 14.17 | 14.17 | 33.363 | 24.888 | 305.8 | 0.034 | | | | | | | | | | 11 219 | |
| 20 | 14.17 | 14.17 | 33.365 | 24.890 | 305.8 | 0.061 | 6.00 | 102.7 | 1.8 | 0.41 | 0.0 | 0.00 | 0.01 | 1.04 | 0.31 | 20 218 | |
| 30 | 13.85 | 13.85 | 33.352 | 24.946 | 300.7 | 0.091 | 6.01 | 102.2 | 1.1 | 0.41 | 0.2 | 0.02 | 0.30 | 0.76 | 0.37 | 30 217 | |
| 41 | 13.65 | 13.64 | 33.348 | 24.984 | 297.4 | 0.124 | 5.76 | 97.5 | 3.0 | 0.54 | 1.6 | 0.10 | 0.49 | 0.82 | 0.59 | 41 216 | |
| 50 | 12.77 | 12.76 | 33.335 | 25.150 | 281.8 | 0.150 | 5.07 | 84.3 | 8.0 | 0.91 | 7.7 | 0.26 | 0.06 | 0.37 | 0.43 | 50 215 | |
| 61 | 11.95 | 11.94 | 33.346 | 25.316 | 266.2 | 0.181 | 4.72 | 77.1 | 10.5 | 1.15 | 11.7 | 0.05 | 0.00 | 0.18 | 0.26 | 61 214 | |
| 71 | 11.58 | 11.57 | 33.412 | 25.436 | 255.0 | 0.207 | 4.48 | 72.6 | 12.3 | 1.27 | 13.7 | 0.02 | 0.02 | 0.10 | 0.17 | 71 213 | |
| 75 ISL | 11.50 | D 11.49 | 33.439 | D 25.472 | 251.7 | 0.217 | 4.40 | 71.2 | 12.8 | 1.30 | 14.2 | 0.02 | 0.02 | 0.09 | 0.17 | 75 | |
| 86 | 11.35 | 11.34 | 33.496 | 25.544 | 245.1 | 0.244 | 4.15 | 67.0 | 14.2 | 1.40 | 15.5 | 0.02 | 0.01 | 0.07 | 0.17 | 86 212 | |
| 100 ISL | 10.90 | D 10.89 | 33.638 | D 25.735 | 227.2 | 0.277 | 3.66 | 58.6 | 17.7 | 1.60 | 18.4 | 0.01 | 0.00 | 0.03 | 0.10 | 100 | |
| 101 | 10.90 | 10.89 | 33.640 | 25.737 | 227.1 | 0.279 | 3.62 | 57.9 | 18.0 | 1.62 | 18.6 | 0.01 | 0.00 | 0.03 | 0.09 | 101 211 | |
| 120 | 10.44 | 10.43 | 33.777 | 25.925 | 209.6 | 0.321 | 3.08 | 48.8 | 22.1 | 1.81 | 21.4 | 0.01 | 0.03 | 0.01 | 0.06 | 121 210 | |
| 125 ISL | 10.44 | D 10.43 | 33.798 | D 25.941 | 208.1 | 0.331 | 2.99 | 47.4 | 23.0 | 1.85 | 22.0 | 0.01 | 0.02 | 0.01 | 0.06 | 126 | |
| 140 | 10.07 | 10.05 | 33.863 | 26.055 | 197.5 | 0.362 | 2.76 | 43.4 | 25.4 | 1.96 | 23.4 | 0.00 | 0.00 | 0.01 | 0.08 | 141 209 | |
| 150 ISL | 9.83 | D 9.81 | 33.960 | D 26.172 | 186.7 | 0.381 | 2.57 | 40.2 | 27.2 | 2.04 | 24.4 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | |
| 170 | 9.61 | 9.59 | 34.032 | 26.265 | 178.2 | 0.417 | 2.21 | 34.4 | 30.8 | 2.18 | 26.1 | 0.00 | 0.00 | 0.00 | 0.05 | 171 208 | |
| 200 ISL | 9.29 | D 9.27 | 34.132 | D 26.396 | 166.3 | 0.469 | 1.86 | 28.8 | 34.8 | 2.33 | 27.7 | 0.00 | 0.00 | 0.01 | 0.05 | 201 | |
| 201 | 9.29 | 9.27 | 34.127 | 26.392 | 166.7 | 0.471 | 1.85 | 28.6 | 34.9 | 2.33 | 27.7 | 0.00 | 0.00 | 0.01 | 0.05 | 202 207 | |
| 231 | 8.96 | 8.93 | 34.176 | 26.484 | 158.5 | 0.520 | 1.59 | 24.4 | 38.8 | 2.44 | 29.0 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 8.78 | D 8.75 | 34.200 | D 26.531 | 154.3 | 0.549 | 1.41 | 21.6 | 41.3 | 2.53 | 29.8 | 0.00 | 0.01 | | | 251 | |
| 271 | 8.59 | 8.56 | 34.224 | 26.580 | 150.0 | 0.581 | 1.22 | 18.6 | 44.1 | 2.62 | 30.7 | 0.00 | 0.01 | | | 273 205 | |
| 300 ISL | 8.30 | D 8.27 | 34.247 | D 26.642 | 144.4 | 0.624 | 1.01 | 15.3 | 47.9 | 2.72 | 31.9 | 0.00 | 0.01 | | | 302 | |
| 321 | 8.06 | 8.03 | 34.254 | 26.684 | 140.7 | 0.654 | 0.89 | 13.4 | 50.7 | 2.79 | 32.8 | 0.00 | 0.00 | | | 323 204 | |
| 382 | 7.31 | 7.27 | 34.261 | 26.799 | 130.4 | 0.737 | 0.66 | 9.8 | 59.3 | 2.95 | 35.0 | 0.00 | 0.00 | | | 384 203 | |
| 400 ISL | 7.11 | D 7.07 | 34.261 | D 26.827 | 127.8 | 0.760 | 0.58 | 8.6 | 62.1 | 3.00 | 35.7 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.75 | 6.71 | 34.286 | 26.896 | 121.6 | 0.811 | 0.43 | 6.3 | 68.2 | 3.11 | 37.2 | 0.00 | 0.00 | | | 444 202 | |
| 500 ISL | 6.22 | D 6.18 | 34.312 | D 26.987 | 113.4 | 0.880 | 0.33 | 4.8 | 75.1 | 3.19 | 38.7 | 0.00 | 0.01 | | | 503 | |
| 520 | 6.18 | 6.13 | 34.314 | 26.994 | 113.0 | 0.903 | 0.29 | 4.2 | 77.5 | 3.22 | 39.2 | 0.00 | 0.02 | | | 524 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|----------|-----------|-----------|----------|----------|--------|-------|-------|--------|------|-----------|------|------|--------|------|-------|---------|-----------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SI03 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.43 | 14.43 | 33.337 | 24.813 | 312.6 | 0.000 | 5.81 | 99.9 | 2.7 | 0.38 | 0.3 | 0.03 | 0.13 | 0.58 | 0.19 | 0 | |
| 2 | 14.43 | 14.43 | 33.337 | 24.813 | 312.6 | 0.006 | 5.81 | 99.9 | 2.7 | 0.38 | 0.3 | 0.03 | 0.13 | 0.58 | 0.19 | 2 221 | |
| 10 | 14.44 | 14.44 | 33.341 | 24.814 | 312.8 | 0.031 | 5.82 | 100.1 | 2.6 | 0.39 | 0.3 | 0.03 | 0.15 | 0.57 | 0.19 | 10 219 | |
| 19 | 14.43 | 14.43 | 33.337 | 24.813 | 313.1 | 0.059 | 5.80 | 99.8 | 2.6 | 0.39 | 0.3 | 0.03 | 0.14 | 0.60 | 0.19 | 19 218 | |
| 20 ISL | 14.43 | D 14.43 | 33.335 | D 24.812 | 313.3 | 0.063 | 5.80 | 99.8 | 2.6 | 0.39 | 0.3 | 0.03 | 0.14 | 0.60 | 0.19 | 20 | |
| 30 | 14.44 | 14.44 | 33.337 | 24.812 | 313.6 | 0.094 | 5.82 | 100.1 | 2.7 | 0.39 | 0.3 | 0.03 | 0.14 | 0.60 | 0.20 | 30 217 | |
| 40 | 14.38 | 14.37 | 33.344 | 24.830 | 312.1 | 0.125 | 5.85 | 100.5 | 2.6 | 0.38 | 0.2 | 0.03 | 0.10 | 0.71 | 0.25 | 40 216 | |
| 50 | 14.10 | 14.09 | 33.305 | 24.859 | 309.6 | 0.156 | 5.70 | 97.4 | 3.5 | 0.48 | 1.5 | 0.06 | 0.14 | 0.46 | 0.22 | 50 215 | |
| 60 | 11.86 | 11.85 | 33.268 | 25.272 | 270.4 | 0.185 | 4.98 | 81.1 | 9.5 | 1.05 | 10.5 | 0.04 | 0.03 | 0.10 | 0.17 | 60 214 | |
| 70 | 11.40 | 11.39 | 33.342 | 25.415 | 257.0 | 0.212 | 4.75 | 76.7 | 11.6 | 1.19 | 12.8 | 0.02 | 0.03 | 0.07 | 0.12 | 70 213 | |
| 75 ISL | 11.11 | D 11.10 | 33.425 | D 25.532 | 246.0 | 0.224 | 4.61 | 74.0 | 12.7 | 1.26 | 14.0 | 0.01 | 0.03 | 0.05 | 0.10 | 75 | |
| 85 | 10.90 | 10.89 | 33.489 | 25.619 | 237.9 | 0.248 | 4.35 | 69.5 | 14.9 | 1.38 | 16.1 | 0.01 | 0.04 | 0.03 | 0.06 | 85 212 | |
| 100 ISL | 10.55 | D 10.54 | 33.575 | D 25.748 | 225.9 | 0.283 | 4.06 | 64.4 | 17.2 | 1.51 | 18.1 | 0.01 | 0.03 | 0.02 | 0.04 | 100 | |
| 102 | 10.50 | 10.49 | 33.585 | 25.764 | 224.4 | 0.288 | 4.02 | 63.7 | 17.5 | 1.52 | 18.3 | 0.01 | 0.03 | 0.02 | 0.04 | 102 211 | |
| 120 | 10.07 | 10.06 | 33.690 | 25.920 | 209.9 | 0.327 | 3.66 | 57.5 | 20.6 | 1.66 | 20.6 | 0.01 | 0.05 | 0.01 | 0.03 | 121 210 | |
| 125 ISL | 10.12 | D 10.11 | 33.809 | D 26.005 | 202.0 | 0.337 | 3.36 | 52.9 | 22.4 | 1.76 | 21.7 | 0.01 | 0.04 | 0.01 | 0.04 | 126 | |
| 139 | 9.86 | 9.84 | 33.946 | 26.156 | 187.9 | 0.364 | 2.49 | 39.0 | 27.7 | 2.03 | 24.7 | 0.01 | 0.00 | 0.01 | 0.07 | 140 209 | |
| 150 ISL | 9.25 | D 9.23 | 33.925 | D 26.239 | 180.0 | 0.385 | 2.34 | 36.2 | 30.1 | 2.12 | 25.8 | 0.01 | 0.00 | 0.01 | 0.06 | 151 | |
| 169 | 9.36 | 9.34 | 34.085 | 26.347 | 170.3 | 0.418 | 2.09 | 32.4 | 33.1 | 2.21 | 26.9 | 0.00 | 0.00 | 0.00 | 0.04 | 170 208 | |
| 200 | 9.02 | 9.00 | 34.173 | 26.471 | 159.1 | 0.469 | 1.63 | 25.1 | 38.2 | 2.41 | 29.1 | 0.01 | 0.00 | 0.00 | 0.04 | 201 207 | |
| 228 | 8.74 | 8.72 | 34.215 | 26.549 | 152.2 | 0.513 | 1.32 | 20.2 | 42.4 | 2.54 | 30.4 | 0.00 | 0.01 | | | 229 206 | |
| 250 ISL | 8.53 | D 8.50 | 34.226 | D 26.590 | 148.5 | 0.546 | 1.15 | 17.5 | 44.9 | 2.62 | 31.0 | 0.00 | 0.00 | | | 251 | |
| 268 | 8.37 | 8.34 | 34.244 | 26.629 | 145.1 | 0.572 | 1.04 | 15.8 | 46.9 | 2.67 | 31.5 | 0.00 | 0.01 | | | 270 205 | |
| 300 ISL | 7.93 | D 7.90 | 34.255 | D 26.704 | 138.4 | 0.617 | 0.85 | 12.8 | 51.6 | 2.78 | 33.0 | 0.00 | 0.01 | | | 302 | |
| 318 | 7.78 | 7.75 | 34.262 | 26.732 | 136.0 | 0.642 | 0.77 | 11.5 | 54.3 | 2.84 | 33.8 | 0.00 | 0.01 | | | 320 204 | |
| 378 | 7.27 | 7.23 | 34.269 | 26.811 | 129.1 | 0.722 | 0.62 | 9.2 | 60.7 | 2.96 | 35.4 | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 31 50.8 N | 119 34.2 W | 09/01/09 | 1423 | UTC | 1839 m | 360 | 13 kn | | | 1015.4 mb | 13.5 C | 12.4 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.35 | 14.35 | 33.345 | 24.836 | 310.4 | 0.000 | 5.83 | 100.1 | 2.6 | 0.39 | 0.2 | 0.03 | 0.14 | 0.60 | 0.22 | 0 | |
| 2 | 14.35 | 14.35 | 33.345 | 24.836 | 310.4 | 0.006 | 5.83 | 100.1 | 2.6 | 0.39 | 0.2 | 0.03 | 0.14 | 0.60 | 0.22 | 2 220 | |
| 10 ISL | 14.35 | 14.35 | 33.342 D | 24.834 | 310.9 | 0.031 | 5.84 | 100.3 | 2.6 | 0.39 | 0.2 | 0.03 | 0.14 | 0.61 | 0.22 | 10 | |
| 20 | 14.35 | 14.35 | 33.348 | 24.839 | 310.7 | 0.062 | 5.85 | 100.5 | 2.6 | 0.39 | 0.2 | 0.03 | 0.13 | 0.61 | 0.22 | 20 218 | |
| 30 | 14.35 | 14.35 | 33.345 | 24.837 | 311.2 | 0.093 | 5.82 | 99.9 | 2.6 | 0.39 | 0.2 | 0.03 | 0.15 | 0.60 | 0.22 | 30 217 | |
| 40 | 14.35 | 14.34 | 33.346 | 24.838 | 311.4 | 0.124 | 5.83 | 100.1 | 2.5 | 0.39 | 0.2 | 0.03 | 0.15 | 0.58 | 0.22 | 40 216 | |
| 50 | 14.34 | 14.33 | 33.344 | 24.839 | 311.6 | 0.156 | 5.82 | 99.9 | 2.6 | 0.39 | 0.3 | 0.03 | 0.15 | 0.59 | 0.25 | 50 215 | |
| 60 | 13.33 | 13.32 | 33.257 | 24.979 | 298.4 | 0.186 | 5.52 | 92.8 | 5.1 | 0.65 | 4.0 | 0.06 | 0.09 | 0.31 | 0.22 | 60 214 | |
| 69 | 11.80 | 11.79 | 33.301 | 25.309 | 267.0 | 0.211 | 4.88 | 79.4 | 10.2 | 1.11 | 11.3 | 0.03 | 0.05 | 0.10 | 0.17 | 69 213 | |
| 75 ISL | 11.46 D | 11.45 | 33.352 D | 25.412 | 257.4 | 0.227 | 4.76 | 76.9 | 11.4 | 1.17 | 12.9 | 0.02 | 0.03 | 0.09 | 0.14 | 75 | |
| 85 | 11.18 | 11.17 | 33.408 | 25.506 | 248.6 | 0.252 | 4.63 | 74.4 | 12.8 | 1.26 | 14.2 | 0.01 | 0.01 | 0.06 | 0.10 | 85 212 | |
| 100 ISL | 10.23 D | 10.22 | 33.687 D | 25.890 | 212.4 | 0.287 | 3.72 | 58.7 | 19.7 | 1.63 | 20.0 | 0.00 | 0.01 | 0.02 | 0.03 | 100 | |
| 101 | 10.23 | 10.22 | 33.687 | 25.890 | 212.4 | 0.289 | 3.66 | 57.7 | 20.2 | 1.65 | 20.4 | 0.00 | 0.01 | 0.02 | 0.03 | 101 211 | |
| 120 | 9.95 | 9.94 | 33.755 | 25.991 | 203.2 | 0.329 | 3.48 | 54.6 | 22.0 | 1.71 | 21.4 | 0.00 | 0.00 | 0.01 | 0.03 | 121 210 | |
| 125 ISL | 9.87 D | 9.86 | 33.774 D | 26.019 | 200.6 | 0.339 | 3.40 | 53.2 | 22.8 | 1.74 | 21.9 | 0.00 | 0.00 | 0.01 | 0.03 | 126 | |
| 139 | 9.52 | 9.50 | 33.849 | 26.136 | 189.7 | 0.366 | 3.17 | 49.3 | 25.1 | 1.84 | 23.4 | 0.00 | 0.02 | 0.00 | 0.02 | 140 209 | |
| 150 ISL | 9.37 D | 9.35 | 33.879 D | 26.184 | 185.3 | 0.387 | 3.04 | 47.1 | 26.9 | 1.90 | 24.4 | 0.00 | 0.02 | 0.00 | 0.02 | 151 | |
| 170 | 8.98 | 8.96 | 33.946 | 26.299 | 174.7 | 0.423 | 2.81 | 43.2 | 30.1 | 2.00 | 25.9 | 0.00 | 0.00 | 0.00 | 0.02 | 171 208 | |
| 200 ISL | 8.60 D | 8.58 | 34.025 D | 26.421 | 163.6 | 0.473 | 2.38 | 36.3 | 35.2 | 2.17 | 27.9 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 202 | 8.59 | 8.57 | 34.026 | 26.423 | 163.4 | 0.477 | 2.35 | 35.8 | 35.5 | 2.18 | 28.0 | 0.00 | 0.00 | 0.00 | 0.02 | 203 207 | |
| 230 | 8.22 | 8.20 | 34.066 | 26.511 | 155.5 | 0.521 | 2.04 | 30.8 | 40.3 | 2.33 | 30.0 | 0.00 | 0.01 | | | 231 206 | |
| 250 ISL | 7.98 D | 7.95 | 34.099 D | 26.573 | 149.8 | 0.552 | 1.77 | 26.6 | 43.5 | 2.45 | 31.2 | 0.00 | 0.00 | | | 251 | |
| 272 | 7.92 | 7.89 | 34.142 | 26.616 | 146.1 | 0.584 | 1.49 | 22.4 | 46.7 | 2.56 | 32.3 | 0.00 | 0.00 | | | 274 205 | |
| 300 ISL | 7.77 D | 7.74 | 34.173 D | 26.663 | 142.1 | 0.625 | 1.31 | 19.6 | 50.2 | 2.65 | 33.3 | 0.00 | 0.02 | | | 302 | |
| 317 | 7.49 | 7.46 | 34.160 | 26.693 | 139.4 | 0.649 | 1.24 | 18.4 | 52.3 | 2.69 | 33.8 | 0.00 | 0.03 | | | 319 204 | |
| 376 | 6.86 | 6.82 | 34.186 | 26.802 | 129.6 | 0.728 | 0.89 | 13.0 | 61.3 | 2.88 | 36.0 | 0.00 | 0.01 | | | 378 203 | |
| 400 ISL | 6.69 D | 6.65 | 34.196 D | 26.833 | 126.9 | 0.759 | 0.76 | 11.1 | 64.8 | 2.95 | 36.8 | 0.00 | 0.00 | | | 403 | |
| 436 | 6.45 | 6.41 | 34.230 | 26.892 | 121.7 | 0.804 | 0.59 | 8.6 | 69.5 | 3.05 | 37.8 | 0.00 | 0.00 | | | 439 202 | |
| 500 ISL | 6.22 D | 6.18 | 34.311 D | 26.986 | 113.4 | 0.879 | 0.36 | 5.2 | 75.7 | 3.16 | 38.9 | 0.00 | 0.00 | | | 503 | |
| 519 | 6.15 | 6.10 | 34.317 | 27.000 | 112.3 | 0.900 | 0.29 | 4.2 | 77.6 | 3.19 | 39.2 | 0.00 | 0.00 | | | 523 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|-------|---------|-----------|
| 31 31.1 N | 120 14.2 W | 09/01/09 | 2039 | UTC | 3938 m | 050 | 10 kn | 340 | 08 | 1018.2 mb | 13.2 C | 12.0 C | 18m | 8/8 | ST | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN | HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.85 | 13.85 | 33.337 | 24.934 | 301.1 | 0.000 | 5.87 | 99.8 | 2.8 | 0.41 | 0.6 | 0.06 | 0.20 | 0.44 | 0.16 | 0 | |
| 2 A | 13.85 | 13.85 | 33.337 | 24.934 | 301.1 | 0.006 | 5.87 | 99.8 | 2.8 | 0.41 | 0.6 | 0.06 | 0.20 | 0.44 | 0.16 | 2 223 | |
| 10 A | 13.85 | 13.85 | 33.336 | 24.933 | 301.4 | 0.030 | 5.93 | 100.8 | 2.6 | 0.41 | 0.6 | 0.06 | 0.19 | 0.48 | 0.20 | 10 222 | |
| 17 | 13.85 | 13.85 | 33.336 | 24.934 | 301.6 | 0.051 | 5.93 | 100.8 | 2.7 | 0.41 | 0.6 | 0.06 | 0.18 | 0.45 | 0.15 | 17 221 | |
| 20 ISL | 13.85 D | 13.85 | 33.332 D | 24.931 | 302.0 | 0.060 | 5.94 | 101.0 | 2.8 | 0.40 | 0.6 | 0.06 | 0.18 | 0.47 | 0.16 | 20 | |
| 24 A | 13.85 | 13.85 | 33.335 | 24.933 | 301.8 | 0.072 | 5.95 | 101.1 | 2.9 | 0.40 | 0.6 | 0.06 | 0.19 | 0.50 | 0.20 | 24 220 | |
| 30 | 13.85 | 13.85 | 33.336 | 24.934 | 301.9 | 0.090 | 5.94 | 101.0 | 2.8 | 0.41 | 0.6 | 0.06 | 0.18 | 0.56 | 0.26 | 30 218 | |
| 37 A | 13.80 | 13.79 | 33.335 | 24.944 | 301.2 | 0.112 | 5.94 | 100.9 | 2.8 | 0.41 | 0.7 | 0.07 | 0.17 | 0.56 | 0.21 | 37 217 | |
| 44 | 13.79 | 13.78 | 33.331 | 24.943 | 301.5 | 0.133 | 5.92 | 100.5 | 3.0 | 0.41 | 0.7 | 0.07 | 0.17 | 0.57 | 0.24 | 44 216 | |
| 50 A | 13.74 | 13.73 | 33.324 | 24.948 | 301.1 | 0.151 | 5.92 | 100.4 | 2.9 | 0.42 | 0.8 | 0.08 | 0.27 | 0.58 | 0.28 | 50 215 | |
| 64 | 12.60 | 12.59 | 33.258 | 25.124 | 284.6 | 0.192 | 5.30 | 87.7 | 7.1 | 0.81 | 7.0 | 0.15 | 0.02 | 0.21 | 0.25 | 64 214 | |
| 75 ISL | 11.74 D | 11.73 | 33.379 D | 25.381 | 260.4 | 0.222 | 4.78 | 77.7 | 10.8 | 1.11 | 11.9 | 0.06 | 0.00 | 0.10 | 0.19 | 75 | |
| 78 A | 11.47 | 11.46 | 33.356 | 25.413 | 257.4 | 0.229 | 4.68 | 75.7 | 11.7 | 1.18 | 13.0 | 0.03 | 0.00 | 0.09 | 0.17 | 78 213 | |
| 89 | 10.58 | 10.57 | 33.364 | 25.578 | 241.8 | 0.257 | 4.67 | 74.1 | 14.1 | 1.29 | 14.9 | 0.02 | 0.01 | 0.04 | 0.07 | 89 212 | |
| 100 ISL | 10.44 D | 10.43 | 33.437 D | 25.659 | 234.3 | 0.283 | 4.54 | 71.8 | 15.1 | 1.35 | 16.0 | 0.02 | 0.00 | 0.03 | 0.05 | 100 | |
| 101 | 10.44 | 10.43 | 33.424 | 25.649 | 235.3 | 0.285 | 4.52 | 71.5 | 15.2 | 1.36 | 16.1 | 0.02 | 0.00 | 0.03 | 0.05 | 101 211 | |
| 120 | 10.03 | 10.02 | 33.611 | 25.865 | 215.1 | 0.328 | 3.77 | 59.2 | 21.0 | 1.68 | 20.9 | 0.00 | 0.00 | 0.02 | 0.05 | 121 210 | |
| 125 ISL | 9.96 D | 9.95 | 33.630 D | 25.892 | 212.7 | 0.339 | 3.67 | 57.5 | 22.0 | 1.71 | 21.5 | 0.00 | 0.00 | 0.01 | 0.05 | 126 | |
| 140 | 9.46 | 9.44 | 33.803 | 26.110 | 192.2 | 0.369 | 3.40 | 52.7 | 24.5 | 1.76 | 22.9 | 0.00 | 0.00 | 0.00 | 0.03 | 141 209 | |
| 150 ISL | 9.33 D | 9.31 | 33.833 D | 26.155 | 188.1 | 0.388 | 3.09 | 47.8 | 26.5 | 1.85 | 24.1 | 0.00 | 0.00 | 0.00 | 0.03 | 151 | |
| 169 | 9.34 | 9.32 | 33.997 | 26.281 | 176.5 | 0.423 | 2.49 | 38.6 | 30.3 | 2.05 | 26.2 | 0.00 | 0.00 | 0.03 | 0.03 | 170 208 | |
| 200 ISL | 9.15 D | 9.13 | 34.129 D | 26.416 | 164.3 | 0.476 | 1.88 | 29.0 | 35.0 | 2.25 | 28.0 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | |
| 202 | 9.12 | 9.10 | 34.132 | 26.423 | 163.7 | 0.479 | 1.86 | 28.7 | 35.3 | 2.26 | 28.1 | 0.00 | 0.00 | 0.00 | 0.03 | 203 207 | |
| 231 | 8.74 | 8.72 | 34.158 | 26.504 | 156.4 | 0.526 | 1.75 | 26.8 | 39.1 | 2.36 | 29.3 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 8. | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|------|------|
| 31 10.9 N | 120 55.4 W | 10/01/09 | 0306 | UTC | 3834 m | 040 | 08 kn | | | 1020.1 mb | 14.8 C | 13.0 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.46 | 14.46 | 33.279 | 24.762 | 317.5 | 0.000 | 5.87 | 101.0 | 2.3 | 0.39 | 0.2 | 0.03 | 0.03 | 0.47 | 0.14 | 0 | |
| 1 | 14.46 | 14.46 | 33.279 | 24.762 | 317.5 | 0.003 | 5.87 | 101.0 | 2.3 | 0.39 | 0.2 | 0.03 | 0.03 | 0.47 | 0.14 | 1 | 221 |
| 10 ISL | 14.46 D | 14.46 | 33.275 D | 24.759 | 318.0 | 0.032 | 5.86 | 100.8 | 2.3 | 0.38 | 0.1 | 0.03 | 0.03 | 0.46 | 0.14 | 10 | |
| 11 | 14.46 | 14.46 | 33.278 | 24.761 | 317.8 | 0.035 | 5.86 | 100.8 | 2.3 | 0.38 | 0.1 | 0.03 | 0.03 | 0.46 | 0.14 | 11 | 219 |
| 20 ISL | 14.46 D | 14.46 | 33.275 D | 24.759 | 318.3 | 0.064 | 5.86 | 100.8 | 2.3 | 0.39 | 0.1 | 0.04 | 0.04 | 0.47 | 0.15 | 20 | |
| 21 | 14.46 | 14.46 | 33.280 | 24.763 | 317.9 | 0.067 | 5.86 | 100.8 | 2.3 | 0.39 | 0.1 | 0.04 | 0.04 | 0.47 | 0.15 | 21 | 218 |
| 30 | 14.44 | 14.44 | 33.277 | 24.765 | 318.0 | 0.095 | 5.87 | 101.0 | 2.3 | 0.39 | 0.2 | 0.04 | 0.06 | 0.48 | 0.16 | 30 | 217 |
| 40 | 14.42 | 14.41 | 33.277 | 24.770 | 317.8 | 0.127 | 5.84 | 100.4 | 2.3 | 0.38 | 0.2 | 0.04 | 0.05 | 0.48 | 0.16 | 40 | 216 |
| 50 | 14.41 | 14.40 | 33.276 | 24.771 | 318.0 | 0.159 | 5.83 | 100.2 | 2.3 | 0.38 | 0.2 | 0.04 | 0.07 | 0.47 | 0.16 | 50 | 215 |
| 60 | 13.93 | 13.92 | 33.219 | 24.828 | 312.9 | 0.190 | 5.77 | 98.2 | 3.0 | 0.48 | 1.3 | 0.18 | 0.13 | 0.26 | 0.13 | 60 | 214 |
| 70 | 12.96 | 12.95 | 33.095 | 24.928 | 303.5 | 0.221 | 5.67 | 94.5 | 4.1 | 0.61 | 3.3 | 0.14 | 0.02 | 0.14 | 0.12 | 70 | 213 |
| 75 ISL | 12.10 D | 12.09 | 32.987 D | 25.010 | 295.7 | 0.236 | 5.65 | 92.4 | 4.7 | 0.67 | 4.3 | 0.10 | 0.02 | 0.11 | 0.11 | 75 | |
| 85 | 11.37 | 11.36 | 32.953 | 25.118 | 285.5 | 0.265 | 5.59 | 90.0 | 6.1 | 0.79 | 6.3 | 0.02 | 0.01 | 0.08 | 0.08 | 85 | 212 |
| 100 ISL | 11.35 D | 11.34 | 33.147 D | 25.273 | 271.2 | 0.307 | 5.31 | 85.5 | 8.2 | 0.94 | 9.1 | 0.02 | 0.00 | 0.06 | 0.07 | 100 | |
| 101 | 11.37 | 11.36 | 33.148 | 25.270 | 271.5 | 0.310 | 5.28 | 85.1 | 8.4 | 0.95 | 9.3 | 0.02 | 0.00 | 0.06 | 0.07 | 101 | 211 |
| 121 | 11.22 | 11.21 | 33.445 | 25.528 | 247.4 | 0.362 | 4.63 | 74.5 | 11.9 | 1.19 | 13.5 | 0.01 | 0.00 | 0.03 | 0.04 | 122 | 210 |
| 125 ISL | 10.97 D | 10.95 | 33.554 D | 25.658 | 235.1 | 0.371 | 4.47 | 71.6 | 13.0 | 1.25 | 14.5 | 0.01 | 0.00 | 0.03 | 0.04 | 126 | |
| 141 | 10.52 | 10.50 | 33.699 D | 25.850 | 217.1 | 0.408 | | | | | | | | | | 142 | 209 |
| 150 ISL | 10.03 D | 10.01 | 33.745 D | 25.970 | 205.8 | 0.427 | 3.59 | 56.4 | 20.1 | 1.60 | 19.9 | 0.00 | 0.00 | 0.01 | 0.02 | 151 | |
| 171 | 9.58 | 9.56 | 33.908 | 26.173 | 186.9 | 0.468 | 3.00 | 46.7 | 26.0 | 1.85 | 23.6 | 0.00 | 0.00 | 0.00 | 0.01 | 172 | 208 |
| 200 | 9.06 | 9.04 | 34.009 | 26.336 | 171.8 | 0.520 | 2.74 | 42.2 | 30.6 | 1.99 | 25.8 | 0.00 | 0.00 | 0.00 | 0.01 | 201 | 207 |
| 231 | 8.54 | 8.52 | 34.045 | 26.446 | 161.8 | 0.572 | 2.50 | 38.0 | 35.6 | 2.11 | 27.9 | 0.00 | 0.00 | | | 232 | 206 |
| 250 ISL | 8.59 D | 8.56 | 34.125 D | 26.502 | 156.9 | 0.602 | 2.23 | 34.0 | 38.8 | 2.22 | 29.1 | 0.00 | 0.00 | | | 251 | |
| 271 | 8.19 | 8.16 | 34.109 | 26.550 | 152.5 | 0.634 | 1.90 | 28.7 | 42.3 | 2.36 | 30.4 | 0.00 | 0.00 | | | 273 | 205 |
| 300 ISL | 8.17 D | 8.14 | 34.188 D | 26.616 | 146.9 | 0.678 | 1.49 | 22.5 | 46.8 | 2.52 | 31.9 | 0.00 | 0.00 | | | 302 | |
| 322 | 7.80 | 7.77 | 34.188 | 26.671 | 141.8 | 0.709 | 1.24 | 18.6 | 50.2 | 2.63 | 33.0 | 0.00 | 0.00 | | | 324 | 204 |
| 381 | 6.99 | 6.95 | 34.180 | 26.779 | 131.9 | 0.790 | 0.95 | 14.0 | 59.4 | 2.81 | 35.7 | 0.00 | 0.00 | | | 383 | 203 |
| 400 ISL | 6.63 D | 6.59 | 34.164 D | 26.815 | 128.4 | 0.815 | 0.89 | 13.0 | 62.7 | 2.86 | 36.5 | 0.00 | 0.00 | | | 402 | |
| 442 | 6.20 | 6.16 | 34.160 | 26.869 | 123.6 | 0.868 | 0.76 | 11.0 | 69.9 | 2.96 | 38.1 | 0.00 | 0.00 | | | 445 | 202 |
| 500 ISL | 5.93 D | 5.89 | 34.220 D | 26.951 | 116.4 | 0.937 | 0.55 | 7.9 | 77.4 | 3.07 | 39.7 | 0.00 | 0.00 | | | 503 | |
| 513 | 5.76 | 5.72 | 34.210 | 26.964 | 115.1 | 0.953 | 0.50 | 7.1 | 79.1 | 3.09 | 40.1 | 0.00 | 0.00 | | | 516 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|------|------|
| 30 50.9 N | 121 35.4 W | 10/01/09 | 0916 | UTC | 4124 m | 050 | 09 kn | | | 1022.9 mb | 14.9 C | 12.9 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | S103 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.43 | 14.43 | 33.150 | 24.669 | 326.3 | 0.000 | 5.88 | 101.0 | 2.3 | 0.40 | 0.1 | 0.03 | 0.03 | 0.48 | 0.16 | 0 | |
| 3 | 14.43 | 14.43 | 33.150 | 24.669 | 326.4 | 0.010 | 5.88 | 101.0 | 2.3 | 0.40 | 0.1 | 0.03 | 0.03 | 0.48 | 0.16 | 3 | 220 |
| 10 ISL | 14.46 | 14.46 | 33.164 | 24.673 | 326.2 | 0.033 | 5.87 | 100.9 | 2.2 | 0.41 | 0.0 | 0.03 | 0.02 | 0.45 | 0.16 | 10 | 219 |
| 20 ISL | 14.44 D | 14.44 | 33.148 D | 24.666 | 327.2 | 0.065 | 5.89 | 101.2 | 2.2 | 0.39 | 0.0 | 0.03 | 0.01 | 0.47 | 0.16 | 20 | |
| 21 | 14.43 | 14.43 | 33.149 | 24.668 | 326.9 | 0.069 | 5.89 | 101.2 | 2.2 | 0.39 | 0.0 | 0.03 | 0.01 | 0.47 | 0.16 | 21 | 218 |
| 30 ISL | 14.78 D | 14.78 | 33.278 D | 24.694 | 324.8 | 0.098 | 5.88 | 101.8 | 2.1 | 0.40 | 0.0 | 0.03 | 0.01 | 0.45 | 0.16 | 30 | |
| 31 | 14.79 | 14.79 | 33.284 D | 24.696 | 324.6 | 0.101 | 5.88 | 101.8 | 2.1 | 0.40 | 0.0 | 0.03 | 0.01 | 0.45 | 0.16 | 31 | 217 |
| 41 | 14.81 | 14.80 | 33.299 | 24.704 | 324.2 | 0.134 | 5.79 | 100.3 | 2.1 | 0.39 | 0.0 | 0.02 | 0.03 | 0.45 | 0.13 | 41 | 216 |
| 50 ISL | 14.76 D | 14.75 | 33.279 D | 24.699 | 324.9 | 0.163 | 5.81 | 100.6 | 2.2 | 0.39 | 0.0 | 0.03 | 0.04 | 0.40 | 0.15 | 50 | |
| 51 | 14.76 | 14.75 | 33.282 | 24.702 | 324.7 | 0.166 | 5.81 | 100.6 | 2.2 | 0.39 | 0.0 | 0.03 | 0.04 | 0.39 | 0.15 | 51 | 215 |
| 61 | 13.78 | 13.77 | 33.157 | 24.811 | 314.5 | 0.198 | 5.78 | 98.0 | 2.9 | 0.52 | 1.3 | 0.31 | 0.15 | 0.19 | 0.14 | 61 | 214 |
| 70 | 13.25 | 13.24 | 33.145 | 24.909 | 305.3 | 0.226 | 5.81 | 97.4 | 3.9 | 0.61 | 2.7 | 0.28 | 0.18 | 0.11 | 0.09 | 70 | 213 |
| 75 ISL | 13.31 D | 13.30 | 33.167 D | 24.914 | 305.0 | 0.241 | 5.80 | 97.4 | 4.1 | 0.64 | 3.1 | 0.22 | 0.13 | 0.09 | 0.09 | 75 | |
| 85 | 11.99 | 11.98 | 32.966 | 25.014 | 295.5 | 0.271 | 5.76 | 93.9 | 4.4 | 0.69 | 4.0 | 0.09 | 0.01 | 0.06 | 0.08 | 85 | 212 |
| 100 ISL | 10.87 D | 10.86 | 32.900 D | 25.166 | 281.2 | 0.314 | 5.65 | 89.9 | 6.3 | 0.85 | 6.7 | 0.01 | 0.00 | 0.04 | 0.06 | 100 | |
| 101 | 10.85 | 10.84 | 32.895 | 25.166 | 281.3 | 0.317 | 5.64 | 89.7 | 6.5 | 0.86 | 6.9 | 0.01 | 0.00 | 0.04 | 0.06 | 101 | 211 |
| 119 | 11.14 | 11.13 | 33.297 | 25.428 | 256.9 | 0.366 | 4.97 | 79.7 | 10.4 | 1.11 | 11.6 | 0.01 | 0.00 | 0.03 | 0.05 | 120 | 210 |
| 125 ISL | 11.20 D | 11.18 | 33.483 D | 25.562 | 244.3 | 0.381 | 4.71 | 75.8 | 12.0 | 1.21 | 13.1 | 0.01 | 0.00 | 0.03 | 0.04 | 126 | |
| 140 | 10.99 | 10.97 | 33.618 D | 25.705 | 231.1 | 0.416 | | | | | | | | | | 141 | 209 |
| 150 ISL | 10.57 D | 10.55 | 33.657 D | 25.809 | 221.2 | 0.439 | 3.70 | 58.8 | 18.5 | 1.58 | 18.7 | 0.00 | 0.00 | 0.01 | 0.02 | 151 | |
| 168 | 10.21 | 10.19 | 33.829 | 26.006 | 202.9 | 0.477 | 3.05 | 48.1 | 23.1 | 1.82 | 21.8 | 0.00 | 0.00 | 0.00 | 0.01 | 169 | 208 |
| 200 | 9.72 | 9.70 | 34.022 | 26.239 | 181.3 | 0.539 | 2.38 | 37.2 | 29.3 | 2.08 | 24.9 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 228 | 9.34 | 9.31 | 34.094 | 26.359 | 170.4 | 0.588 | 2.21 | 34. | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|----------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|-------|--------|------|------|
| 30 30.8 N | 122 15.6 W | 10/01/09 | 1648 | UTC | 4164 m | 100 | 08 kn | 110 03 06 | 0 | 1025.9 mb | 16.3 C | 14.2 C | 24m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 14.99 | 14.99 | 33.157 | 24.554 | 337.2 | 0.000 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.02 | 0.25 | 0.10 | 0 | |
| 1 A | 14.99 | 14.99 | 33.157 | 24.554 | 337.2 | 0.003 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.02 | 0.25 | 0.10 | 1 | 222 |
| 8 | 14.98 | 14.98 | 33.155 | 24.555 | 337.4 | 0.027 | 5.80 | 100.8 | 2.0 | 0.37 | 0.0 | 0.01 | 0.03 | 0.26 | 0.10 | 8 | 221 |
| 10 ISL | 14.97 | D 14.97 | 33.154 | D 24.557 | 337.3 | 0.034 | 5.80 | 100.8 | 2.0 | 0.37 | 0.0 | 0.01 | 0.03 | 0.26 | 0.10 | 10 | |
| 14 A | 14.97 | 14.97 | 33.155 | 24.557 | 337.3 | 0.047 | 5.81 | 100.9 | 2.0 | 0.37 | 0.0 | 0.01 | 0.03 | 0.26 | 0.11 | 14 | 220 |
| 20 ISL | 14.97 | D 14.97 | 33.155 | D 24.558 | 337.5 | 0.067 | 5.80 | 100.8 | 2.0 | 0.38 | 0.0 | 0.01 | 0.02 | 0.26 | 0.11 | 20 | |
| 22 | 14.97 | 14.97 | 33.155 | D 24.558 | 337.5 | 0.074 | | | | | | | | | | 22 | 219 |
| 30 ISL | 14.97 | D 14.97 | 33.155 | D 24.558 | 337.8 | 0.101 | 5.78 | 100.4 | 2.0 | 0.38 | 0.0 | 0.01 | 0.02 | 0.27 | 0.10 | 30 | |
| 32 A | 14.97 | 14.97 | 33.157 | 24.560 | 337.7 | 0.108 | 5.78 | 100.4 | 2.0 | 0.38 | 0.0 | 0.01 | 0.02 | 0.27 | 0.10 | 32 | 218 |
| 40 | 14.97 | 14.96 | 33.156 | 24.559 | 338.0 | 0.135 | 5.79 | 100.6 | 1.9 | 0.37 | 0.0 | 0.01 | 0.03 | 0.26 | 0.10 | 40 | 217 |
| 48 A | 14.98 | 14.97 | 33.158 | 24.559 | 338.2 | 0.162 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.02 | 0.27 | 0.11 | 48 | 216 |
| 50 ISL | 14.98 | D 14.97 | 33.154 | D 24.556 | 338.6 | 0.169 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.02 | 0.27 | 0.11 | 50 | |
| 58 | 14.96 | 14.95 | 33.156 | 24.562 | 338.2 | 0.196 | 5.80 | 100.7 | 2.0 | 0.37 | 0.0 | 0.02 | 0.02 | 0.26 | 0.12 | 58 | 215 |
| 66 A | 14.04 | 14.03 | 33.087 | 24.703 | 324.9 | 0.222 | 5.86 | 99.8 | 2.4 | 0.45 | 0.6 | 0.15 | 0.12 | 0.22 | 0.15 | 66 | 214 |
| 75 ISL | 13.66 | D 13.65 | 33.092 | D 24.786 | 317.3 | 0.251 | 5.80 | 98.0 | 2.9 | 0.51 | 1.3 | 0.29 | 0.06 | 0.13 | 0.14 | 75 | |
| 78 | 13.30 | 13.29 | 33.069 | 24.840 | 312.1 | 0.261 | 5.77 | 96.8 | 3.1 | 0.52 | 1.6 | 0.31 | 0.02 | 0.10 | 0.14 | 78 | 213 |
| 90 | 12.82 | 12.81 | 33.056 | 24.926 | 304.2 | 0.298 | 5.71 | 94.8 | 3.6 | 0.56 | 2.5 | 0.12 | 0.00 | 0.08 | 0.16 | 90 | 212 |
| 100 ISL | 12.14 | D 12.13 | 33.128 | D 25.112 | 286.6 | 0.327 | 5.54 | 90.7 | 5.0 | 0.67 | 4.8 | 0.04 | 0.00 | 0.06 | 0.13 | 100 | |
| 103 A | 12.06 | 12.05 | 33.132 | 25.130 | 284.9 | 0.336 | 5.49 | 89.8 | 5.5 | 0.71 | 5.5 | 0.03 | 0.00 | 0.06 | 0.12 | 103 | 211 |
| 119 | 11.52 | 11.51 | 33.179 | 25.267 | 272.2 | 0.380 | 5.33 | 86.2 | 6.9 | 0.84 | 7.7 | 0.02 | 0.01 | 0.04 | 0.07 | 120 | 210 |
| 125 ISL | 11.29 | D 11.27 | 33.182 | D 25.311 | 268.1 | 0.397 | 5.20 | 83.6 | 8.1 | 0.92 | 9.0 | 0.02 | 0.01 | 0.03 | 0.06 | 126 | |
| 139 | 10.55 | 10.53 | 33.343 | D 25.568 | 243.9 | 0.432 | | | | | | | | | | 140 | 209 |
| 150 ISL | 10.32 | D 10.30 | 33.440 | D 25.683 | 233.1 | 0.459 | 4.59 | 72.4 | 14.0 | 1.27 | 14.8 | 0.01 | 0.00 | 0.02 | 0.02 | 151 | |
| 169 | 9.81 | 9.79 | 33.644 | 25.929 | 210.1 | 0.501 | 4.03 | 62.9 | 19.3 | 1.55 | 19.3 | 0.00 | 0.00 | 0.01 | 0.01 | 170 | 208 |
| 200 ISL | 9.17 | D 9.15 | 33.886 | D 26.223 | 182.6 | 0.562 | 3.28 | 50.6 | 26.1 | 1.82 | 23.8 | 0.00 | 0.00 | 0.00 | 0.01 | 201 | |
| 202 | 9.15 | 9.13 | 33.897 | 26.234 | 181.5 | 0.565 | 3.24 | 49.9 | 26.5 | 1.83 | 24.0 | 0.00 | 0.00 | 0.00 | 0.01 | 203 | 207 |
| 229 | 8.59 | 8.57 | 33.972 | 26.381 | 167.9 | 0.612 | 3.04 | 46.3 | 31.6 | 1.94 | 25.8 | 0.00 | 0.00 | | | 230 | 206 |
| 250 ISL | 8.21 | D 8.18 | 34.006 | D 26.466 | 160.1 | 0.647 | 2.72 | 41.1 | 36.3 | 2.09 | 27.7 | 0.00 | 0.00 | | | 251 | |
| 270 | 7.89 | 7.86 | 34.027 | 26.530 | 154.2 | 0.678 | 2.38 | 35.7 | 40.8 | 2.24 | 29.6 | 0.00 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.42 | D 7.39 | 34.061 | D 26.625 | 145.5 | 0.723 | 1.94 | 28.8 | 47.1 | 2.43 | 31.9 | 0.00 | 0.00 | | | 302 | |
| 318 | 7.30 | 7.27 | 34.082 | 26.658 | 142.5 | 0.749 | 1.70 | 25.1 | 50.6 | 2.53 | 33.1 | 0.00 | 0.00 | | | 320 | 204 |
| 380 | 6.78 | 6.74 | 34.127 | 26.766 | 132.9 | 0.835 | 1.14 | 16.7 | 59.6 | 2.78 | 35.9 | 0.00 | 0.00 | | | 382 | 203 |
| 400 ISL | 6.64 | D 6.60 | 34.139 | D 26.794 | 130.4 | 0.861 | 1.00 | 14.6 | 62.7 | 2.85 | 36.5 | 0.00 | 0.00 | | | 402 | |
| 441 | 6.26 | 6.22 | 34.171 | 26.870 | 123.6 | 0.913 | 0.75 | 10.8 | 69.0 | 2.98 | 37.6 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 5.86 | D 5.82 | 34.235 | D 26.971 | 114.4 | 0.983 | 0.50 | 7.2 | 77.2 | 3.11 | 39.2 | 0.00 | 0.00 | | | 503 | |
| 520 | 5.78 | 5.74 | 34.244 | 26.989 | 112.9 | 1.006 | 0.42 | 6.0 | 80.0 | 3.15 | 39.7 | 0.00 | 0.00 | | | 523 | 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|----------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|----------|--------|------|------|
| 30 11.0 N | 122 55.6 W | 10/01/09 | 2155 | UTC | 3775 m | 030 | 10 kn | 210 03 06 | 0 | 1027.4 mb | 16.0 C | 14.3 C | 23m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 15.11 | 15.11 | 33.133 | 24.510 | 341.5 | 0.000 | 5.81 | 101.2 | 2.1 | 0.38 | 0.0 | 0.01 | 0.10 | 0.25 | 0.08 | 0 | |
| 3 | 15.11 | 15.11 | 33.133 | 24.510 | 341.5 | 0.010 | 5.81 | 101.2 | 2.1 | 0.38 | 0.0 | 0.01 | 0.10 | 0.25 | 0.08 | 3 | 221 |
| 10 ISL | 14.93 | D 14.91 | 33.137 | D 24.552 | 337.7 | 0.034 | 5.84 | 101.4 | 2.1 | 0.38 | 0.0 | 0.01 | 0.09 | 0.28 | 0.09 | 10 | 220 |
| 21 | 14.91 | 14.91 | 33.137 | 24.557 | 337.6 | 0.071 | 5.81 | 100.8 | 2.1 | 0.38 | 0.0 | 0.01 | 0.11 | 0.27 | 0.10 | 20 | |
| 30 | 14.90 | 14.90 | 33.136 | 24.558 | 337.7 | 0.102 | 5.82 | 100.9 | 2.1 | 0.38 | 0.0 | 0.01 | 0.09 | 0.26 | 0.10 | 30 | 217 |
| 40 | 14.90 | 14.89 | 33.137 | 24.560 | 337.9 | 0.135 | 5.81 | 100.8 | 2.1 | 0.38 | 0.0 | 0.01 | 0.10 | 0.30 | 0.12 | 40 | 216 |
| 49 | 14.90 | 14.89 | 33.139 | 24.561 | 338.0 | 0.166 | 5.80 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.10 | 0.31 | 0.12 | 49 | 215 |
| 50 ISL | 14.90 | D 14.89 | 33.135 | D 24.558 | 338.3 | 0.169 | 5.80 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.10 | 0.31 | 0.12 | 50 | |
| 60 | 14.90 | 14.89 | 33.139 | 24.562 | 338.3 | 0.203 | 5.80 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.11 | 0.31 | 0.12 | 60 | 214 |
| 70 | 14.85 | 14.84 | 33.139 | 24.573 | 337.5 | 0.237 | 5.80 | 100.5 | 2.1 | 0.38 | 0.0 | 0.02 | 0.13 | 0.28 | 0.11 | 70 | 213 |
| 75 ISL | 14.55 | D 14.54 | 33.147 | D 24.643 | 330.9 | 0.253 | 5.77 | 99.4 | 2.2 | 0.41 | 0.2 | 0.11 | 0.23 | 0.22 | 0.10 | 75 | |
| 85 | 14.34 | 14.33 | 33.211 | 24.737 | 322.3 | 0.286 | 5.72 | 98.1 | 2.5 | 0.48 | 0.8 | 0.28 | 0.39 | 0.10 | 0.08 | 85 | 212 |
| 100 ISL | 12.83 | D 12.82 | 33.037 | D 24.909 | 306.0 | 0.333 | 5.71 | 94.8 | 3.6 | 0.58 | 2.7 | 0.12 | 0.10 | 0.08 | 0.13 | 100 | |
| 101 | 12.73 | 12.72 | 33.028 | 24.922 | 304.9 | 0.336 | 5.71 | 94.6 | 3.7 | 0.59 | 2.9 | 0.10 | 0.08 | 0.08 | 0.13 | 101 | 211 |
| 121 | 11.21 | 11.20 | 33.114 | 25.273 | 271.6 | 0.394 | 5.34 | 85.7 | 8.1 | 0.94 | 8.8 | 0.01 | 0.08 | 0.04 | 0.05 | 122 | 210 |
| 125 ISL | 11.08 | D 11.06 | 33.168 | D 25.338 | 265.5 | 0.405 | 5.24 | 83.9 | 9.0 | 1.00 | 9.9 | 0.01 | 0.08 | 0.03 | 0.04 | 126 | |
| 140 | 10.73 | 10.71 | 33.364 | 25.553 | 245.4 | 0.443 | 4.82 | 76.7 | 12.6 | 1.23 | 13.9 | 0.01 | 0.09 | 0.02</td | | | |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 120.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|---------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 29 51.0 N | 123 35.3 W | 11/01/09 | 0352 | UTC | 4074 m | 030 | 18 kn | | | 1026.7 mb | 15.9 C | 12.6 C | | | | | |
| 0 ISL | 15.36 | 15.36 | 33.275 | 24.564 | 336.2 | 0.000 | 5.75 | 100.8 | 2.0 | 0.37 | 0.0 | 0.00 | 0.02 | 0.23 | 0.08 | 0 | |
| 2 | 15.36 | 15.36 | 33.275 | 24.565 | 336.3 | 0.007 | 5.75 | 100.8 | 2.0 | 0.37 | 0.0 | 0.00 | 0.02 | 0.23 | 0.08 | 2 220 | |
| 10 ISL | 15.36 | 15.36 | 33.271 D | 24.562 | 336.8 | 0.034 | 5.76 | 100.9 | 2.0 | 0.36 | 0.0 | 0.00 | 0.03 | 0.23 | 0.08 | 10 | |
| 11 | 15.36 | 15.36 | 33.274 | 24.564 | 336.6 | 0.037 | 5.76 | 100.9 | 2.0 | 0.36 | 0.0 | 0.00 | 0.03 | 0.23 | 0.08 | 11 219 | |
| 20 ISL | 15.34 D | 15.34 | 33.268 D | 24.564 | 336.9 | 0.067 | 5.77 | 101.1 | 2.0 | 0.36 | 0.0 | 0.00 | 0.03 | 0.23 | 0.09 | 20 | |
| 26 | 15.25 | 15.25 | 33.266 | 24.583 | 335.3 | 0.087 | 5.77 | 100.9 | 2.0 | 0.37 | 0.0 | 0.00 | 0.02 | 0.23 | 0.09 | 26 218 | |
| 30 ISL | 15.23 D | 15.23 | 33.261 D | 24.583 | 335.4 | 0.101 | 5.77 | 100.8 | 2.0 | 0.37 | 0.0 | 0.00 | 0.02 | 0.24 | 0.09 | 30 | |
| 40 | 15.22 | 15.21 | 33.263 | 24.587 | 335.3 | 0.134 | 5.77 | 100.8 | 2.0 | 0.37 | 0.0 | 0.01 | 0.02 | 0.27 | 0.10 | 40 217 | |
| 50 ISL | 15.21 D | 15.20 | 33.257 D | 24.585 | 335.8 | 0.168 | 5.76 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.01 | 0.28 | 0.09 | 50 | |
| 51 | 15.21 | 15.20 | 33.262 | 24.589 | 335.5 | 0.171 | 5.76 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.01 | 0.28 | 0.09 | 51 216 | |
| 62 | 15.19 | 15.18 | 33.260 | 24.592 | 335.5 | 0.208 | 5.75 | 100.4 | 2.0 | 0.38 | 0.0 | 0.01 | 0.02 | 0.32 | 0.08 | 62 215 | |
| 75 ISL | 13.27 D | 13.26 | 33.035 D | 24.820 | 313.9 | 0.250 | 5.77 | 96.7 | 3.2 | 0.52 | 1.3 | 0.40 | 0.01 | 0.25 | 0.24 | 75 | |
| 76 | 13.19 | 13.18 | 33.044 | 24.843 | 311.8 | 0.254 | 5.77 | 96.6 | 3.3 | 0.53 | 1.5 | 0.42 | 0.01 | 0.24 | 0.25 | 76 214 | |
| 87 | 12.25 | 12.24 | 32.981 | 24.977 | 299.2 | 0.287 | 5.65 | 92.7 | 4.6 | 0.66 | 4.1 | 0.02 | 0.01 | 0.13 | 0.19 | 87 213 | |
| 100 ISL | 11.52 D | 11.51 | 33.003 D | 25.130 | 284.8 | 0.325 | 5.49 | 88.7 | 6.5 | 0.84 | 7.3 | 0.01 | 0.01 | 0.07 | 0.12 | 100 | |
| 102 | 11.45 | 11.44 | 33.009 | 25.147 | 283.2 | 0.331 | 5.47 | 88.2 | 6.8 | 0.87 | 7.7 | 0.01 | 0.01 | 0.06 | 0.11 | 102 212 | |
| 113 | 11.14 | 11.13 | 33.096 | 25.271 | 271.6 | 0.361 | 5.33 | 85.4 | 8.5 | 0.96 | 9.4 | 0.01 | 0.00 | 0.04 | 0.07 | 113 211 | |
| 125 ISL | 11.03 D | 11.01 | 33.308 D | 25.456 | 254.3 | 0.393 | 5.04 | 80.7 | 10.6 | 1.09 | 11.8 | 0.01 | 0.00 | 0.03 | 0.05 | 126 | |
| 126 | 11.03 | 11.01 | 33.309 | 25.457 | 254.2 | 0.395 | 5.01 | 80.2 | 10.8 | 1.10 | 12.0 | 0.01 | 0.00 | 0.03 | 0.05 | 127 210 | |
| 140 | 10.77 | 10.75 | 33.438 | 25.603 | 240.6 | 0.430 | 4.72 | 75.2 | 12.8 | 1.22 | 14.0 | 0.00 | 0.00 | 0.02 | 0.03 | 141 209 | |
| 150 ISL | 10.59 D | 10.57 | 33.526 D | 25.704 | 231.2 | 0.454 | 4.37 | 69.4 | 15.5 | 1.36 | 16.4 | 0.00 | 0.00 | 0.01 | 0.03 | 151 | |
| 165 | 10.00 | 9.98 | 33.669 | 25.916 | 211.2 | 0.487 | 3.85 | 60.4 | 19.7 | 1.58 | 20.1 | 0.00 | 0.00 | 0.00 | 0.02 | 166 208 | |
| 200 | 9.33 | 9.31 | 33.872 | 26.186 | 186.2 | 0.556 | 3.36 | 52.0 | 25.2 | 1.75 | 23.2 | 0.00 | 0.00 | 0.00 | 0.02 | 201 207 | |
| 230 | 8.86 | 8.84 | 33.965 | 26.334 | 172.5 | 0.610 | 2.95 | 45.2 | 30.3 | 1.94 | 25.7 | 0.00 | 0.00 | | | 231 206 | |
| 250 ISL | 8.58 D | 8.55 | 34.003 D | 26.407 | 165.8 | 0.644 | 2.64 | 40.2 | 34.2 | 2.07 | 27.5 | 0.00 | 0.00 | | | 251 | |
| 271 | 8.24 | 8.21 | 34.045 | 26.492 | 158.0 | 0.678 | 2.32 | 35.1 | 38.6 | 2.20 | 29.3 | 0.00 | 0.00 | | | 272 205 | |
| 300 ISL | 7.84 D | 7.81 | 34.079 D | 26.579 | 150.1 | 0.723 | 1.90 | 28.5 | 44.7 | 2.38 | 31.6 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.55 | 7.52 | 34.099 | 26.637 | 144.8 | 0.754 | 1.64 | 24.4 | 48.9 | 2.50 | 33.0 | 0.00 | 0.00 | | | 323 204 | |
| 382 | 6.95 | 6.91 | 34.130 | 26.745 | 135.1 | 0.839 | 1.19 | 17.5 | 58.0 | 2.73 | 35.5 | 0.00 | 0.00 | | | 384 203 | |
| 400 ISL | 6.78 D | 6.74 | 34.134 D | 26.772 | 132.7 | 0.863 | 1.07 | 15.6 | 60.9 | 2.79 | 36.2 | 0.00 | 0.00 | | | 402 | |
| 439 | 6.40 | 6.36 | 34.162 | 26.844 | 126.1 | 0.914 | 0.82 | 11.9 | 67.1 | 2.92 | 37.7 | 0.00 | 0.00 | | | 442 202 | |
| 500 ISL | 5.93 D | 5.89 | 34.221 D | 26.952 | 116.3 | 0.988 | 0.53 | 7.6 | 76.0 | 3.06 | 39.5 | 0.00 | 0.00 | | | 503 | |
| 515 | 5.88 | 5.84 | 34.229 | 26.964 | 115.3 | 1.005 | 0.46 | 6.6 | 78.2 | 3.10 | 40.0 | 0.00 | 0.00 | | | 518 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.4 26.4

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|--------|------|
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SV | DYN HT | OXYGEN | OXY | SIO3 | P04 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 32 57.1 N | 117 17.0 W | 08/01/09 | 0424 | UTC | 26 m | 040 | 04 kn | | | 1017.3 mb | 13.7 C | 12.5 C | | | | | |
| 0 ISL | 13.89 | 13.89 | 33.317 | 24.910 | 303.3 | 0.000 | 6.15 | 104.6 | 5.0 | 0.44 | 0.5 | 0.08 | 0.10 | 1.99 | 0.59 | 0 | |
| 2 | 13.89 | 13.89 | 33.317 | 24.910 | 303.4 | 0.006 | 6.15 | 104.6 | 5.0 | 0.44 | 0.5 | 0.08 | 0.10 | 1.99 | 0.59 | 2 205 | |
| 5 | 13.86 | 13.86 | 33.323 | 24.921 | 302.4 | 0.015 | 6.13 | 104.2 | 4.9 | 0.44 | 0.5 | 0.07 | 0.13 | 2.10 | 0.62 | 5 204 | |
| 10 | 13.760 | 13.759 | 33.328 | 24.946 | 300.2 | 0.030 | 6.03 | 102.3 | 4.9 | 0.43 | 0.6 | 0.08 | 0.17 | 2.19 | 0.70 | 10 203 | |
| 15 | 13.69 | 13.69 | 33.331 | 24.962 | 298.8 | 0.045 | 5.88 | 99.6 | 5.2 | 0.49 | 1.1 | 0.11 | 0.23 | 1.78 | 0.74 | 15 202 | |
| 18 | 13.67 | 13.67 | 33.337 | 24.971 | 298.0 | 0.054 | 5.77 | 97.7 | 5.3 | 0.52 | 1.5 | 0.12 | 0.29 | 1.65 | 0.68 | 18 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S;

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/l | OXY PCT | S103 uM/l | P04 uM/l | N03 uM/l | N02 uM/l | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 34 43.4 N | 121 32.9 W | 22/01/09 | 1749 UTC | 11 m | 1221 - 1805 PST | 1221 PST | 1805 PST | 340.2 mg C/m2 | | | | | | | | |
| 1 | 13.25 | 33.390 | 25.097 | 6.89 | 115.7 | 3.1 | 0.34 | 0.2 | 0.02 | 1.41 | 0.23 | 87. A | 19.5 | 20.6 | 20.1 | 0.20 |
| 5 | 13.26 | 33.390 | 25.095 | 6.95 | 116.7 | 3.1 | 0.34 | 0.2 | 0.01 | 1.39 | 0.26 | 50. | 20.5 | 20.1 | 20.3 | 0.95 |
| 9 | 13.20 | 33.402 | 25.116 | 6.83 | 114.6 | 3.4 | 0.38 | 0.4 | 0.02 | 1.33 | 0.25 | | | | | |
| 16 | 12.69 | 33.412 | 25.225 | 6.41 | 106.4 | 4.8 | 0.56 | 2.6 | 0.11 | 1.31 | 0.38 | 11. | 10.9 | 11.5 | 11.2 | 0.13 |
| 21 | 12.55 | 33.413 | 25.253 | 6.09 | 100.8 | 5.9 | 0.67 | 3.9 | 0.20 | 1.02 | 0.41 | 5.3 | 3.5 | 3.0 | 3.2 | 0.08 |
| 31 | 12.47 | 33.413 | 25.268 | 5.84 | 96.5 | 6.7 | 0.73 | 4.7 | 0.33 | 0.55 | 0.44 | 1.3 | 0.99 | 1.1 | 1.0 | 0.06 |
| 39 | 12.29 | 33.424 | 25.312 | 5.58 | 91.9 | 8.4 | 0.85 | 6.9 | 0.39 | 0.40 | 0.36 | | | | | |
| 48 | 11.59 | 33.475 | 25.483 | 4.70 | 76.2 | 12.9 | 1.19 | 12.9 | 0.18 | 0.23 | 0.28 | 0.12 | 0.06 | 0.06 | 0.06 | 0.05 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 76.7 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/l | OXY PCT | S103 uM/l | P04 uM/l | N03 uM/l | N02 uM/l | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 33 23.1 N | 124 19.8 W | 21/01/09 | 1736 UTC | 14 m | 1229 - 1800 PST | 1229 PST | 1800 PST | 222.1 mg C/m2 | | | | | | | | |
| 2 | 13.94 | 33.109 | 24.739 | 6.17 | 104.9 | 2.8 | 0.39 | 0.2 | 0.02 | 0.60 | 0.14 | 80. A | 9.9 | 9.7 | 9.8 | 0.11 |
| 8 | 13.94 | 33.110 | 24.740 | 6.16 | 104.8 | 2.8 | 0.38 | 0.2 | 0.02 | 0.63 | 0.12 | 42. | 9.3 | 8.9 | 9.1 | 0.09 |
| 18 | 13.67 | 33.115 | 24.800 | 6.27 | 106.0 | 3.1 | 0.40 | 0.2 | 0.03 | 0.88 | 0.24 | 14. | 6.5 | 6.2 | 6.3 | 0.11 |
| 27 | 13.39 | 33.114 | 24.856 | 6.07 | 102.1 | 3.1 | 0.46 | 1.1 | 0.08 | 0.63 | 0.33 | 5.2 | 2.7 | 2.4 | 2.6 | 0.07 |
| 39 | 13.29 | 33.115 | 24.877 | 5.94 | 99.7 | 3.1 | 0.50 | 1.6 | 0.17 | 0.32 | 0.24 | 1.4 | 0.70 | 0.74 | 0.72 | 0.03 |
| 50 | 13.16 | 33.118 | 24.906 | 5.97 | 99.9 | 3.3 | 0.53 | 2.0 | 0.18 | 0.29 | 0.20 | | | | | |
| 61 | 13.08 | 33.129 | 24.930 | 5.88 | 98.2 | 3.6 | 0.56 | 2.4 | 0.25 | 0.20 | 0.16 | 0.12 | 0.07 | 0.09 | 0.08 | 0.04 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 80.0 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/l | OXY PCT | S103 uM/l | P04 uM/l | N03 uM/l | N02 uM/l | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 33 48.7 N | 121 51.9 W | 20/01/09 | 1724 UTC | 15 m | 1220 - 1800 PST | 1219 PST | 1800 PST | 329.6 mg C/m2 | | | | | | | | |
| 2 | 13.09 | 33.105 | 24.908 | 6.24 | 104.3 | 4.5 | 0.52 | 2.2 | 0.07 | 0.63 | 0.17 | 81. A | 12.9 | 12.1 | 12.5 | 0.10 |
| 9 | 12.88 | 33.095 | 24.942 | 6.25 | 104.0 | 4.6 | 0.53 | 2.5 | 0.07 | 0.72 | 0.17 | 40. | 14.9 | 13.4 | 14.1 | 0.12 |
| 19 | 11.84 | 33.053 | 25.108 | 6.04 | 98.3 | 5.7 | 0.70 | 4.8 | 0.13 | 0.83 | 0.24 | 14. | 9.0 | 9.4 | 9.2 | 0.06 |
| 31 | 11.88 | 33.185 | 25.203 | 5.93 | 96.6 | 6.5 | 0.77 | 6.1 | 0.32 | 0.44 | 0.27 | 4.2 | 2.4 | 2.3 | 2.3 | 0.05 |
| 41 | 11.89 | 33.225 | 25.233 | 5.92 | 96.5 | 6.9 | 0.79 | 6.3 | 0.34 | 0.35 | 0.25 | 1.5 | 0.76 | 0.87 | 0.81 | 0.17 |
| 54 | 12.11 | 33.323 | 25.268 | 5.91 | 96.9 | 7.2 | 0.79 | 6.3 | 0.36 | 0.25 | 0.21 | | | | | |
| 65 | 11.58 | 33.254 | 25.313 | 5.72 | 92.6 | 8.1 | 0.89 | 8.1 | 0.33 | 0.16 | 0.18 | 0.13 | 0.05 | 0.06 | 0.06 | 0.05 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 81.8 46.9

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/l | OXY PCT | S103 uM/l | P04 uM/l | N03 uM/l | N02 uM/l | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 34 17.3 N | 120 1.7 W | 19/01/09 | 1729 UTC | 11 m | 1211 - 1749 PST | 1211 PST | 1749 PST | 838.0 mg C/m2 | | | | | | | | |
| 1 | 13.16 | 33.398 | 25.121 | 6.20 | 103.9 | 5.5 | 0.52 | 2.3 | 0.11 | 1.65 | 0.70 | 87. A | 24.5 | 28.8 | 26.6 | 0.19 |
| 6 | 13.13 | 33.400 | 25.129 | 6.20 | 103.9 | 5.7 | 0.53 | 2.5 | 0.12 | 1.74 | 0.81 | 43. | 59.3 | 59.3 | 59.3 | 0.24 |
| 15 | 13.08 | 33.404 | 25.142 | 6.04 | 101.1 | 5.9 | 0.57 | 3.1 | 0.15 | 1.57 | 0.75 | 12. | 29.5 | 28.4 | 28.9 | 0.13 |
| 22 | 12.88 | 33.397 | 25.176 | 5.79 | 96.5 | 6.4 | 0.66 | 4.4 | 0.25 | 1.19 | 0.68 | 4.6 | 9.1 | 8.4 | 8.8 | 0.12 |
| 31 | 12.65 | 33.429 | 25.246 | 5.33 | 88.4 | 7.9 | 0.84 | 6.8 | 0.34 | 0.74 | 0.65 | 1.3 | 2.1 | 2.0 | 2.1 | 0.10 |
| 41 | 12.52 | 33.441 | 25.281 | 5.22 | 86.4 | 8.7 | 0.88 | 7.6 | 0.37 | 0.55 | 0.55 | | | | | |
| 48 | 12.29 | 33.460 | 25.340 | 4.95 | 81.5 | 10.2 | 1.00 | 9.4 | 0.38 | 0.41 | 0.44 | 0.12 | 0.10 | 0.11 | 0.11 | 0.09 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 41, 12.7, 4.4, 1.4, 0.13 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 33 43.9 N | 120 23.8 W | 18/01/09 | 1744 UTC | 9 m | 1212 - 1740 PST | 1212 PST | 1739 PST | 498.0 mg C/m2 | | | | | | | | |
| 1 | 13.30 | 33.338 | 25.046 | 6.34 | 106.6 | 4.8 | 0.48 | 1.6 | 0.06 | 1.53 | 0.39 | 84. A | 16.1 | 14.7 | 15.4 | 0.14 |
| 5 | 13.29 | 33.340 | 25.050 | 6.34 | 106.5 | 5.0 | 0.49 | 1.5 | 0.06 | 1.55 | 0.41 | 43. | 29.4 | 30.4 | 29.9 | 0.14 |
| 12 | 13.19 | 33.334 | 25.066 | 6.32 | 106.0 | 5.0 | 0.53 | 1.8 | 0.07 | 1.72 | 0.42 | 13. | 26.4 | 26.0 | 26.2 | 0.12 |
| 18 | 12.99 | 33.325 | 25.099 | 6.20 | 103.5 | 5.2 | 0.58 | 2.4 | 0.09 | 1.56 | 0.43 | 4.6 | 12.0 | 10.6 | 11.3 | 0.09 |
| 26 | 12.72 | 33.347 | 25.169 | 5.83 | 96.8 | 6.6 | 0.73 | 4.7 | 0.16 | 0.89 | 0.41 | 1.2 | 4.3 | 2.7 | 3.5 | 0.05 |
| 31 | 12.73 | 33.354 | 25.172 | 5.81 | 96.5 | 6.8 | 0.75 | 4.7 | 0.16 | 0.90 | 0.42 | | | | | |
| 38 | 12.75 | 33.364 | 25.176 | 5.76 | 95.7 | 6.7 | 0.76 | 4.8 | 0.16 | 0.88 | 0.47 | 0.15 | 0.53 | 0.44 | 0.49 | 0.05 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 83.3 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 32 34.9 N | 122 49.5 W | 17/01/09 | 1808 UTC | 16 m | 1223 - 1750 PST | 1222 PST | 1750 PST | 360.8 mg C/m2 | | | | | | | | |
| 1 | 13.29 | 33.131 | 24.888 | 6.20 | 104.0 | 3.5 | 0.49 | 1.5 | 0.07 | 0.67 | 0.15 | 91. A | 4.4 | 4.3 | 4.4 | 0.09 |
| 9 | 13.26 | 33.133 | 24.896 | 6.22 | 104.3 | 3.5 | 0.50 | 1.5 | 0.07 | 0.70 | 0.15 | 42. | 11.6 | 12.1 | 11.9 | 0.09 |
| 16 | 13.15 | 33.131 | 24.917 | 6.22 | 104.1 | 3.5 | 0.50 | 1.6 | 0.08 | 0.79 | 0.20 | | | | | |
| 21 | 13.10 | 33.129 | 24.925 | 6.24 | 104.3 | 3.4 | 0.50 | 1.7 | 0.08 | 0.82 | 0.23 | 13. | 10.0 | 9.6 | 9.8 | 0.07 |
| 32 | 12.78 | 33.088 | 24.957 | 6.06 | 100.6 | 3.7 | 0.55 | 2.5 | 0.11 | 0.76 | 0.27 | 4.6 | 6.6 | 6.3 | 6.4 | 0.05 |
| 44 | 12.28 | 33.040 | 25.016 | 5.88 | 96.5 | 4.3 | 0.64 | 3.8 | 0.16 | 0.37 | 0.18 | 1.5 | 2.1 | 1.6 | 1.8 | 0.02 |
| 57 | 11.77 | 33.002 | 25.082 | 5.72 | 92.9 | 5.4 | 0.75 | 5.6 | 0.09 | 0.12 | 0.11 | | | | | |
| 68 | 11.42 | 33.022 | 25.162 | 5.57 | 89.8 | 7.1 | 0.88 | 7.8 | 0.03 | 0.08 | 0.09 | 0.15 | 0.09 | 0.09 | 0.09 | 0.02 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 33 49.4 N | 118 37.8 W | 14/01/09 | 1842 UTC | 17 m | 1204 - 1738 PST | 1204 PST | 1738 PST | 601.9 mg C/m2 | | | | | | | | |
| 1 | 14.03 | 33.364 | 24.917 | 6.43 | 109.7 | 2.6 | 0.37 | 0.1 | 0.01 | 1.19 | 0.26 | 91. A | 18.4 | 20.6 | 19.5 | 0.22 |
| 10 | 13.72 | 33.360 | 24.979 | 6.30 | 106.8 | 3.3 | 0.39 | 0.4 | 0.06 | 1.64 | 0.49 | 41. | 26.8 | 26.3 | 26.6 | 0.17 |
| 16 | 13.65 | 33.357 | 24.991 | 6.03 | 102.1 | 4.1 | 0.45 | 1.0 | 0.13 | 1.54 | 0.50 | | | | | |
| 23 | 13.29 | 33.354 | 25.061 | 5.48 | 92.1 | 6.4 | 0.71 | 4.2 | 0.36 | 1.05 | 0.52 | 13. | 10.2 | 11.3 | 10.8 | 0.10 |
| 35 | 12.82 | 33.415 | 25.202 | 4.88 | 81.2 | 8.7 | 0.97 | 8.7 | 0.24 | 0.64 | 0.44 | 4.2 | 5.2 | 4.5 | 4.9 | 0.05 |
| 46 | 11.99 | 33.492 | 25.422 | 4.14 | 67.7 | 12.8 | 1.31 | 14.3 | 0.07 | 0.16 | 0.21 | 1.6 | 0.52 | 0.56 | 0.54 | 0.04 |
| 60 | 11.67 | 33.514 | 25.499 | 3.98 | 64.7 | 14.2 | 1.39 | 15.7 | 0.05 | 0.12 | 0.22 | | | | | |
| 73 | 11.15 | 33.625 | 25.680 | 3.51 | 56.5 | 18.0 | 1.59 | 18.7 | 0.07 | 0.06 | 0.14 | 0.14 | 0.03 | 0.03 | 0.03 | 0.03 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 32 59.1 N | 120 20.8 W | 15/01/09 | 1657 UTC | 10 m | 1210 - 1748 PST | 1210 PST | 1748 PST | 425.9 mg C/m2 | | | | | | | | |
| 1 | 13.10 | 33.337 | 25.086 | 6.31 | 105.6 | 5.3 | 0.53 | 2.6 | 0.08 | 1.38 | 0.24 | 86. A | 15.0 | 12.4 | 13.7 | 0.14 |
| 6 | 13.05 | 33.336 | 25.095 | 6.32 | 105.7 | 5.4 | 0.54 | 2.6 | 0.08 | 1.47 | 0.21 | 40. | 35.1 | 36.3 | 35.7 | 0.13 |
| 10 | 12.91 | 33.335 | 25.122 | 6.26 | 104.4 | 5.5 | 0.57 | 2.8 | 0.10 | 1.24 | 0.24 | | | | | |
| 13 | 12.82 | 33.334 | 25.139 | 6.19 | 103.0 | 5.6 | 0.59 | 3.2 | 0.11 | 1.04 | 0.22 | 14. | 14.6 | 15.0 | 14.8 | 0.09 |
| 19 | 12.80 | 33.337 | 25.145 | 6.14 | 102.1 | 5.6 | 0.60 | 3.5 | 0.13 | 0.74 | 0.17 | 5.4 | 5.8 | 5.2 | 5.5 | 0.06 |
| 28 | 12.70 | 33.337 | 25.165 | 6.06 | 100.6 | 5.8 | 0.62 | 3.8 | 0.16 | 0.69 | 0.18 | 1.4 | 2.2 | 2.3 | 2.2 | 0.07 |
| 36 | 12.69 | 33.339 | 25.169 | 6.00 | 99.6 | 5.9 | 0.64 | 4.0 | 0.18 | 0.66 | 0.24 | | | | | |
| 42 | 12.70 | 33.342 | 25.169 | 5.93 | 98.4 | 6.0 | 0.66 | 4.3 | 0.20 | 0.30 | 0.17 | 0.16 | 0.13 | 0.15 | 0.14 | 0.04 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 41, 12.7, 4.4, 1.4, 0.13 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 86.7 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|---------------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 31 39.5 N | 123 5.1 W | 16/01/09 | 1735 UTC | 15 m | 1223 - 1759 PST | 1222 PST | 1759 PST | 302.2 mg C/m ² | | | | | | | | |
| 1 | 14.49 | 33.273 | 24.751 | 5.96 | 102.6 | 2.2 | 0.37 | 0.1 | 0.01 | 0.51 | 0.13 | 90. A | 6.3 | 5.5 | 5.9 | 0.07 |
| 8 | 14.44 | 33.275 | 24.763 | 5.97 | 102.7 | 2.2 | 0.38 | 0.1 | 0.01 | 0.54 | 0.16 | 44. | 11.5 | 11.4 | 11.4 | 0.08 |
| 19 | 14.26 | 33.279 | 24.804 | 5.96 | 102.1 | 2.3 | 0.37 | 0.2 | 0.02 | 0.56 | 0.19 | 14. | 8.2 | 8.1 | 8.1 | 0.09 |
| 31 | 14.24 | 33.272 | 24.804 | 5.94 | 101.7 | 2.3 | 0.39 | 0.3 | 0.03 | 0.51 | 0.20 | 4.2 | 4.5 | 4.1 | 4.3 | 0.05 |
| 41 | 14.21 | 33.273 | 24.811 | 5.91 | 101.2 | 2.3 | 0.40 | 0.4 | 0.04 | 0.49 | 0.24 | 1.5 | 2.1 | 1.6 | 1.8 | 0.04 |
| 53 | 14.17 | 33.280 | 24.825 | 5.87 | 100.4 | 2.5 | 0.41 | 0.6 | 0.05 | 0.41 | 0.20 | | | | | |
| 64 | 13.94 | 33.254 | 24.853 | 5.87 | 99.9 | 2.6 | 0.44 | 0.9 | 0.07 | 0.34 | 0.21 | 0.14 | 0.23 | 0.27 | 0.25 | 0.03 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 37.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|---------------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 33 11.6 N | 118 24.2 W | 13/01/09 | 1826 UTC | 17 m | 1212 - 1740 PST | 1212 PST | 1740 PST | 494.2 mg C/m ² | | | | | | | | |
| 1 | 14.51 | 33.370 | 24.821 | 6.10 | 105.1 | 3.6 | 0.33 | 0.0 | 0.00 | 0.53 | 0.18 | 91. A | 7.2 | 7.2 | 7.2 | 0.17 |
| 10 | 14.28 | 33.364 | 24.866 | 6.12 | 105.0 | 3.7 | 0.34 | 0.1 | 0.00 | 0.61 | 0.22 | 41. | 13.1 | 12.5 | 12.8 | 0.20 |
| 16 | 14.21 | 33.360 | 24.877 | 6.11 | 104.6 | 3.7 | 0.34 | 0.1 | 0.00 | 0.82 | 0.33 | | | | | |
| 23 | 14.16 | 33.357 | 24.886 | 6.07 | 103.8 | 3.7 | 0.35 | 0.1 | 0.01 | 1.10 | 0.48 | 13. | 17.8 | 17.0 | 17.4 | 0.13 |
| 35 | 13.99 | 33.357 | 24.921 | 5.73 | 97.7 | 4.6 | 0.48 | 1.6 | 0.10 | 0.65 | 0.42 | 4.2 | 6.9 | 6.4 | 6.6 | 0.05 |
| 47 | 12.40 | 33.406 | 25.277 | 4.48 | 73.9 | 10.3 | 1.11 | 11.3 | 0.02 | 0.19 | 0.22 | 1.4 | 0.92 | 0.83 | 0.88 | 0.02 |
| 60 | 12.10 | 33.493 | 25.402 | 4.06 | 66.6 | 12.6 | 1.30 | 14.1 | 0.01 | 0.11 | 0.15 | | | | | |
| 73 | 11.58 | 33.593 | 25.577 | 3.66 | 59.4 | 15.8 | 1.49 | 17.2 | 0.00 | 0.04 | 0.10 | 0.14 | 0.03 | 0.04 | 0.03 | 0.03 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|---------------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 32 5.1 N | 120 38.2 W | 12/01/09 | 1815 UTC | 21 m | 1211 - 1740 PST | 1211 PST | 1739 PST | 381.6 mg C/m ² | | | | | | | | |
| 2 | 14.67 | 33.299 | 24.733 | 5.83 | 100.8 | 2.2 | 0.37 | 0.1 | 0.01 | 0.43 | 0.13 | 86. A | 1.4 | 1.9 | 1.6 | 0.05 |
| 12 | 14.62 | 33.297 | 24.742 | 5.87 | 101.3 | 2.3 | 0.38 | 0.1 | 0.01 | 0.43 | 0.14 | 42. | 8.1 | 8.9 | 8.5 | 0.06 |
| 20 | 14.61 | 33.298 | 24.745 | 5.84 | 100.8 | 2.3 | 0.37 | 0.1 | 0.01 | 0.43 | 0.14 | | | | | |
| 28 | 14.61 | 33.298 | 24.745 | 5.84 | 100.8 | 2.2 | 0.36 | 0.1 | 0.01 | 0.44 | 0.16 | 13. | 7.6 | 7.9 | 7.8 | 0.06 |
| 36 | 14.61 | 33.299 | 24.746 | 5.84 | 100.8 | 2.2 | 0.37 | 0.1 | 0.01 | 0.44 | 0.15 | | | | | |
| 43 | 14.61 | 33.299 | 24.747 | 5.84 | 100.8 | 2.3 | 0.38 | 0.1 | 0.01 | 0.44 | 0.14 | 4.3 | 5.3 | 5.1 | 5.2 | 0.03 |
| 51 | 14.60 | 33.297 | 24.748 | 5.81 | 100.3 | 2.3 | 0.41 | 0.1 | 0.02 | 0.46 | 0.17 | | | | | |
| 59 | 14.57 | 33.293 | 24.751 | 5.81 | 100.2 | 2.2 | 0.41 | 0.2 | 0.03 | 0.37 | 0.15 | 1.3 | 2.4 | 2.4 | 2.4 | 0.03 |
| 75 | 13.28 | 33.115 | 24.880 | 5.73 | 96.1 | 3.4 | 0.56 | 2.0 | 0.18 | 0.16 | 0.19 | | | | | |
| 90 | 11.50 | 32.927 | 25.074 | 5.70 | 92.0 | 5.1 | 0.74 | 4.9 | 0.01 | 0.08 | 0.12 | 0.14 | 0.12 | 0.14 | 0.13 | 0.02 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 90.0 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-------------|-------------|-----------------|-----------|----------------|---------------------------|----------|------------|------------|-----------|------|------|------|------|
| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN ml/l | OXY PCT | S103 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/l | PHAE0 ug/l | LIGHT PCT | 1 | 2 | MEAN | DARK |
| 30 46.4 N | 123 20.5 W | 11/01/09 | 1757 UTC | 26 m | 1220 - 1758 PST | 1221 PST | 1757 PST | 214.4 mg C/m ² | | | | | | | | |
| 2 | 15.51 | 33.253 | 24.515 | 5.73 | 100.7 | 2.4 | 0.35 | 0.0 | 0.00 | 0.22 | 0.09 | 89. A | 0.07 | 0.11 | 0.09 | 0.03 |
| 8 | 15.51 | 33.254 | 24.516 | 5.75 | 101.0 | 2.3 | 0.34 | 0.0 | 0.00 | 0.22 | 0.10 | | | | | |
| 15 | 15.50 | 33.253 | 24.517 | 5.73 | 100.7 | 2.3 | 0.34 | 0.1 | 0.00 | 0.23 | 0.09 | 41. | 3.5 | 3.9 | 3.7 | 0.03 |
| 25 | 15.50 | 33.252 | 24.517 | 5.72 | 100.5 | 2.4 | 0.35 | 0.0 | 0.00 | 0.23 | 0.09 | | | | | |
| 35 | 15.50 | 33.254 | 24.519 | 5.71 | 100.3 | 2.4 | 0.34 | 0.0 | 0.00 | 0.23 | 0.10 | 13. | 3.5 | 3.4 | 3.5 | 0.03 |
| 44 | 15.50 | 33.252 | 24.517 | 5.74 | 100.8 | 2.1 | 0.34 | 0.0 | 0.00 | 0.23 | 0.09 | | | | | |
| 53 | 15.49 | 33.252 | 24.520 | 5.72 | 100.5 | 2.2 | 0.34 | 0.0 | 0.00 | 0.23 | 0.10 | 4.4 | 2.5 | 2.3 | 2.4 | 0.02 |
| 62 | 15.50 | 33.252 | 24.518 | 5.75 | 101.0 | 2.3 | 0.33 | 0.0 | 0.00 | 0.23 | 0.09 | | | | | |
| 73 | 15.48 | 33.249 | 24.521 | 5.73 | 100.6 | 2.3 | 0.34 | 0.0 | 0.01 | 0.23 | 0.10 | 1.3 | 1.3 | 1.3 | 1.3 | 0.02 |
| 85 | 13.47 | 33.120 | 24.846 | 5.78 | 97.3 | 3.2 | 0.46 | 1.1 | 0.23 | 0.13 | 0.23 | | | | | |
| 97 | 12.86 | 33.123 | 24.970 | 5.64 | 93.8 | 4.0 | 0.54 | 2.7 | 0.06 | 0.10 | 0.21 | | | | | |
| 112 | 12.24 | 33.125 | 25.091 | 5.55 | 91.1 | 5.4 | 0.67 | 5.0 | 0.02 | 0.07 | 0.14 | 0.13 | 0.10 | 0.12 | 0.11 | 0.02 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 41, 12.7, 4.4, 1.4, 0.13 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|---------------------------|
| 32 40.7 N | 117 52.3 W | 08/01/09 | 1742 UTC | 19 m | 1158 - 1729 PST | 1158 PST | 1729 PST | 421.6 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/L | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/L | PHAE0 ug/L | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | (mg C/m ³) MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|--------------------------------|------|
| 1 | 14.40 | 33.380 | 24.852 | 5.96 | 102.5 | 2.8 | 0.35 | 0.0 | 0.01 | 0.47 | 0.14 | 92. A | 7.4 | 8.1 | 7.7 | 0.09 |
| 11 | 14.31 | 33.377 | 24.869 | 5.99 | 102.8 | 2.7 | 0.35 | 0.0 | 0.00 | 0.76 | 0.23 | 41. | 15.1 | 14.9 | 15.0 | 0.09 |
| 18 | 14.26 | 33.371 | 24.875 | 5.99 | 102.7 | 2.8 | 0.36 | 0.0 | 0.02 | 1.15 | 0.38 | | | | | |
| 27 | 14.10 | 33.356 | 24.898 | 5.77 | 98.6 | 3.7 | 0.45 | 1.1 | 0.20 | 0.79 | 0.46 | 11. | 9.7 | 10.0 | 9.8 | 0.04 |
| 32 | 13.86 | 33.350 | 24.943 | 5.62 | 95.6 | 4.3 | 0.54 | 2.2 | 0.28 | 0.61 | 0.48 | | | | | |
| 38 | 13.62 | 33.335 | 24.980 | 5.43 | 91.9 | 5.3 | 0.67 | 3.9 | 0.27 | 0.57 | 0.47 | 4.6 | 3.2 | 3.4 | 3.3 | 0.03 |
| 46 | 12.82 | 33.370 | 25.168 | 4.80 | 79.9 | 8.4 | 1.00 | 8.9 | 0.04 | 0.17 | 0.29 | | | | | |
| 52 | 12.36 | 33.446 | 25.316 | 4.42 | 72.9 | 10.7 | 1.18 | 11.9 | 0.02 | 0.10 | 0.21 | 1.5 | 0.30 | 0.33 | 0.31 | 0.03 |
| 67 | 11.68 | 33.568 | 25.539 | 3.87 | 62.9 | 14.3 | 1.41 | 15.8 | 0.02 | 0.05 | 0.15 | | | | | |
| 81 | 11.40 | 33.644 | 25.650 | 3.58 | 57.9 | 16.3 | 1.55 | 17.8 | 0.01 | 0.03 | 0.09 | 0.14 | 0.00 | 0.02 | 0.01 | 0.02 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|---------------------------|
| 31 31.1 N | 120 14.2 W | 09/01/09 | 2039 UTC | 18 m | 1333 - 1745 PST | 1333 PST | 1745 PST | 207.8 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/L | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/L | PHAE0 ug/L | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | (mg C/m ³) MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|--------------------------------|------|
| 2 | 13.85 | 33.337 | 24.934 | 5.87 | 99.8 | 2.8 | 0.41 | 0.6 | 0.06 | 0.44 | 0.16 | 84. A | 3.4 | 3.7 | 3.6 | 0.06 |
| 10 | 13.85 | 33.336 | 24.933 | 5.93 | 100.8 | 2.6 | 0.41 | 0.6 | 0.06 | 0.48 | 0.20 | 43. | 6.3 | 6.3 | 6.3 | 0.06 |
| 17 | 13.85 | 33.336 | 24.934 | 5.93 | 100.8 | 2.7 | 0.41 | 0.6 | 0.06 | 0.45 | 0.15 | | | | | |
| 24 | 13.85 | 33.335 | 24.933 | 5.95 | 101.1 | 2.9 | 0.40 | 0.6 | 0.06 | 0.50 | 0.20 | 13. | 4.6 | 4.5 | 4.6 | 0.07 |
| 30 | 13.85 | 33.336 | 24.934 | 5.94 | 101.0 | 2.8 | 0.41 | 0.6 | 0.06 | 0.56 | 0.26 | | | | | |
| 37 | 13.80 | 33.335 | 24.944 | 5.94 | 100.9 | 2.8 | 0.41 | 0.7 | 0.07 | 0.56 | 0.21 | 4.3 | 2.5 | 2.2 | 2.3 | 0.05 |
| 44 | 13.79 | 33.331 | 24.943 | 5.92 | 100.5 | 3.0 | 0.41 | 0.7 | 0.07 | 0.57 | 0.24 | | | | | |
| 50 | 13.74 | 33.324 | 24.948 | 5.92 | 100.4 | 2.9 | 0.42 | 0.8 | 0.08 | 0.58 | 0.28 | 1.4 | 1.2 | 1.2 | 1.2 | 0.03 |
| 64 | 12.60 | 33.258 | 25.124 | 5.30 | 87.7 | 7.1 | 0.81 | 7.0 | 0.15 | 0.21 | 0.25 | | | | | |
| 78 | 11.47 | 33.356 | 25.413 | 4.68 | 75.7 | 11.7 | 1.18 | 13.0 | 0.03 | 0.09 | 0.17 | 0.13 | 0.02 | 0.03 | 0.02 | 0.03 |

RV NEW HORIZON

CALCOFI CRUISE 0901

STATION 93.3 100.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|---------------------------|
| 30 30.8 N | 122 15.6 W | 10/01/09 | 1648 UTC | 24 m | 1222 - 1756 PST | 1222 PST | 1755 PST | 199.1 mg C/m ² |

| DEPTH m | TEMP DEG C | SALINITY | SIGMA THETA | OXYGEN mL/L | OXY PCT | SIO3 uM/L | P04 uM/L | N03 uM/L | N02 uM/L | CHL-A ug/L | PHAE0 ug/L | LIGHT PCT | UPTAKE 1 | UPTAKE 2 | (mg C/m ³) MEAN | DARK |
|------------|---------------|----------|----------------|----------------|------------|--------------|-------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|--------------------------------|------|
| 1 | 14.99 | 33.157 | 24.554 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.25 | 0.10 | 94. A | 0.23 | 0.34 | 0.29 | 0.02 |
| 8 | 14.98 | 33.155 | 24.555 | 5.80 | 100.8 | 2.0 | 0.37 | 0.0 | 0.01 | 0.26 | 0.10 | | | | | |
| 14 | 14.97 | 33.155 | 24.557 | 5.81 | 100.9 | 2.0 | 0.37 | 0.0 | 0.01 | 0.26 | 0.11 | 41. | 4.8 | 4.8 | 4.8 | 0.03 |
| 22 | 14.97 | 33.155 | 24.558 | | | | | | | | | | | | | |
| 32 | 14.97 | 33.157 | 24.560 | 5.78 | 100.4 | 2.0 | 0.38 | 0.0 | 0.01 | 0.27 | 0.10 | 13. | 4.3 | 4.6 | 4.4 | 0.02 |
| 40 | 14.97 | 33.156 | 24.559 | 5.79 | 100.6 | 1.9 | 0.37 | 0.0 | 0.01 | 0.26 | 0.10 | | | | | |
| 48 | 14.98 | 33.158 | 24.559 | 5.79 | 100.6 | 2.0 | 0.37 | 0.0 | 0.01 | 0.27 | 0.11 | 4.6 | 2.4 | 1.8 | 2.1 | 0.03 |
| 58 | 14.96 | 33.156 | 24.562 | 5.80 | 100.7 | 2.0 | 0.37 | 0.0 | 0.02 | 0.26 | 0.12 | | | | | |
| 66 | 14.04 | 33.087 | 24.703 | 5.86 | 99.8 | 2.4 | 0.45 | 0.6 | 0.15 | 0.22 | 0.15 | 1.5 | 0.32 | 0.41 | 0.37 | 1.0 |
| 78 | 13.30 | 33.069 | 24.840 | 5.77 | 96.8 | 3.1 | 0.52 | 1.6 | 0.31 | 0.10 | 0.14 | | | | | |
| 90 | 12.82 | 33.056 | 24.926 | 5.71 | 94.8 | 3.6 | 0.56 | 2.5 | 0.12 | 0.08 | 0.16 | | | | | |
| 103 | 12.06 | 33.132 | 25.130 | 5.49 | 89.8 | 5.5 | 0.71 | 5.5 | 0.03 | 0.06 | 0.12 | 0.14 | 0.10 | 0.10 | 0.10 | 0.01 |

A) INCUBATION LIGHT INTENSITIES WERE 96, 41, 12.7, 4.4, 1.4, 0.13 PERCENT RESPECTIVELY.

CalCOFI Cruise 0901

MACROZOOPLANKTON BIOMASS

Net Mesh Size: 0.505mm

| Line | Sta. | Latitude N | Longitude W | Date Mo/Day | Time (PST) Start | Water Volume Strained (m ³) | Max. Tow Depth (m) | Volume per 1000 m ³ Strained | | |
|------|-------|------------|-------------|----------------|---------------------|--|-----------------------|--|--------------------------|--|
| | | | | | | | | Total (cm ³) | Small (cm ³) | |
| 76.7 | 100.0 | 33 23.3 | 124 19.4 | 01/21 | 0829 | 458 | 208 | 24 | 24 | |
| 76.7 | 90.0 | 33 43.2 | 123 38.1 | 01/21 | 1614 | 476 | 210 | 15 | 15 | |
| 76.7 | 80.0 | 34 03.2 | 122 56.4 | 01/21 | 2235 | 404 | 214 | 42 | 42 | |
| 76.7 | 70.0 | 34 23.3 | 122 14.9 | 01/22 | 0450 | 442 | 207 | 158 | 158 | |
| 76.7 | 60.0 | 34 43.3 | 121 32.9 | 01/22 | 1051 | 398 | 213 | 96 | 96 | |
| 76.7 | 55.0 | 34 53.7 | 121 12.0 | 01/22 | 1450 | 417 | 213 | 101 | 101 | |
| 76.7 | 51.0 | 35 01.3 | 120 55.1 | 01/22 | 1818 | 383 | 210 | 107 | 107 | |
| 76.7 | 49.0 | 35 05.3 | 120 46.6 | 01/22 | 2027 | 2027 | 48 | 118 | 118 | |
| 80.0 | 50.5 | 34 27.7 | 120 28.9 | 01/19 | 1613 | 1613 | 14 | 95 | 95 | |
| 80.0 | 51.0 | 34 27.0 | 120 31.4 | 01/19 | 1745 | 1745 | 62 | 367 | 367 | |
| 80.0 | 55.0 | 34 19.0 | 120 48.2 | 01/19 | 2119 | 428 | 215 | 86 | 86 | |
| 80.0 | 60.0 | 34 09.1 | 121 09.0 | 01/20 | 0311 | 431 | 211 | 100 | 100 | |
| 80.0 | 70.0 | 33 48.7 | 121 51.9 | 01/20 | 0830 | 406 | 215 | 54 | 54 | |
| 80.0 | 80.0 | 33 29.4 | 122 31.9 | 01/20 | 1537 | 437 | 210 | 16 | 16 | |
| 80.0 | 90.0 | 33 09.0 | 123 13.5 | 01/20 | 2134 | 436 | 213 | 48 | 48 | |
| 80.0 | 100.0 | 32 49.0 | 123 54.3 | 01/21 | 0345 | 429 | 209 | 47 | 47 | |
| 81.7 | 43.5 | 34 24.5 | 119 48.1 | 01/19 | 1154 | 1154 | 13 | 22 | 22 | |
| 81.8 | 46.9 | 34 16.5 | 120 01.5 | 01/19 | 0835 | 411 | 216 | 90 | 90 | |
| 83.3 | 110.0 | 31 54.7 | 124 10.2 | 01/16 | 2208 | 434 | 210 | 76 | 76 | |
| 83.3 | 100.0 | 32 14.8 | 123 29.5 | 01/17 | 0410 | 410 | 212 | 41 | 41 | |
| 83.3 | 90.0 | 32 34.7 | 122 48.7 | 01/17 | 0912 | 416 | 209 | 38 | 38 | |
| 83.3 | 80.0 | 32 54.7 | 122 07.7 | 01/17 | 1634 | 1634 | 213 | 56 | 56 | |
| 83.3 | 70.0 | 33 14.8 | 121 26.5 | 01/17 | 2305 | 2305 | 211 | 57 | 57 | |
| 83.3 | 60.0 | 33 34.6 | 120 45.3 | 01/18 | 0524 | 0524 | 209 | 124 | 124 | |
| 83.3 | 55.0 | 33 44.7 | 120 24.6 | 01/18 | 0851 | 0851 | 202 | 32 | 32 | |
| 83.3 | 51.0 | 33 52.7 | 120 08.0 | 01/18 | 1315 | 1315 | 107 | 177 | 177 | |
| 83.3 | 39.4 | 34 15.5 | 119 19.4 | 01/19 | 0051 | 0051 | 40 | 51 | 51 | |
| 83.3 | 40.6 | 34 13.6 | 119 24.6 | 01/19 | 0235 | 0235 | 62 | 130 | 130 | |
| 83.3 | 42.0 | 34 10.7 | 119 30.2 | 01/19 | 0451 | 0451 | 183 | 71 | 71 | |
| 85.4 | 35.8 | 34 00.8 | 118 49.9 | 01/18 | 2050 | 2050 | 46 | 87 | 87 | |
| 86.7 | 33.0 | 33 53.4 | 118 29.4 | 01/14 | 0914 | 0914 | 92 | 65 | 65 | |
| 86.7 | 35.0 | 33 49.4 | 118 37.7 | 01/14 | 1200 | 1200 | 417 | 48 | 48 | |
| 86.7 | 40.0 | 33 39.4 | 118 58.4 | 01/14 | 1637 | 1637 | 395 | 48 | 48 | |
| 86.7 | 45.0 | 33 29.5 | 119 19.0 | 01/14 | 2054 | 2054 | 428 | 191 | 82 | |
| 86.7 | 50.0 | 33 19.4 | 119 39.8 | 01/15 | 0100 | 0100 | 112 | 43 | 107 | |
| 86.7 | 55.0 | 33 09.4 | 120 00.5 | 01/15 | 0453 | 0453 | 412 | 80 | 61 | |
| 86.7 | 60.0 | 32 59.4 | 120 20.9 | 01/15 | 0756 | 0756 | 439 | 59 | 59 | |
| 86.7 | 70.0 | 32 39.5 | 121 01.9 | 01/15 | 1534 | 1534 | 442 | 57 | 57 | |
| 86.7 | 80.0 | 32 19.4 | 121 43.0 | 01/15 | 2146 | 2146 | 407 | 210 | 57 | |
| 86.7 | 90.0 | 31 59.3 | 122 23.4 | 01/16 | 0357 | 0357 | 425 | 612 | 33 | |
| 86.7 | 100.0 | 31 39.4 | 123 04.2 | 01/16 | 0842 | 0842 | 420 | 74 | 33 | |
| 86.7 | 110.0 | 31 19.4 | 123 44.6 | 01/16 | 1559 | 1559 | 416 | 213 | 31 | |
| 86.8 | 32.5 | 33 53.2 | 118 26.7 | 01/14 | 0742 | 0742 | 49 | 61 | 61 | |
| 88.5 | 30.1 | 33 40.5 | 118 05.6 | 01/14 | 0357 | 0357 | 43 | 47 | 47 | |
| 90.0 | 120.0 | 30 25.0 | 123 59.8 | 01/11 | 0329 | 0329 | 447 | 204 | 31 | |
| 90.0 | 110.0 | 30 45.1 | 123 19.9 | 01/11 | 0858 | 0858 | 481 | 200 | 23 | |
| 90.0 | 100.0 | 31 05.4 | 122 39.8 | 01/11 | 1628 | 1628 | 435 | 211 | 44 | |
| 90.0 | 90.0 | 31 25.1 | 121 59.3 | 01/11 | 2241 | 2241 | 439 | 208 | 52 | |
| 90.0 | 80.0 | 31 45.1 | 121 19.0 | 01/12 | 0505 | 0505 | 430 | 213 | 30 | |
| 90.0 | 70.0 | 32 05.1 | 120 38.3 | 01/12 | 1134 | 1134 | 434 | 211 | 28 | |
| 90.0 | 60.0 | 32 25.1 | 119 57.6 | 01/12 | 1759 | 1759 | 411 | 215 | 49 | |
| 90.0 | 53.0 | 32 39.2 | 119 28.9 | 01/12 | 2302 | 2302 | 485 | 200 | 47 | |
| 90.0 | 45.0 | 32 52.9 | 119 00.6 | 01/13 | 0430 | 0430 | 425 | 211 | 71 | |
| 90.0 | 37.0 | 33 11.1 | 118 23.2 | 01/13 | 0935 | 0935 | 473 | 191 | 25 | |
| 90.0 | 27.7 | 33 29.6 | 117 44.8 | 01/13 | 1524 | 1524 | 43 | 70 | 70 | |
| 90.0 | 28.0 | 33 29.1 | 117 46.1 | 01/13 | 1649 | 1649 | 83 | 36 | 12 | |
| 90.0 | 30.0 | 33 25.1 | 117 54.2 | 01/13 | 1936 | 1936 | 410 | 215 | 68 | |
| 90.0 | 35.0 | 33 15.1 | 118 15.1 | 01/13 | 2355 | 2355 | 458 | 191 | 107 | |
| 91.7 | 26.4 | 33 14.9 | 117 28.0 | 01/07 | 2325 | 2325 | 48 | 42 | 42 | |
| 93.3 | 26.7 | 32 57.4 | 117 18.3 | 01/07 | 1930 | 1930 | 178 | 67 | 67 | |
| 93.3 | 28.0 | 32 54.8 | 117 23.8 | 01/08 | 0401 | 0401 | 408 | 215 | 51 | |
| 93.3 | 30.0 | 32 50.8 | 117 31.8 | 01/08 | 0645 | 0645 | 402 | 213 | 37 | |
| 93.3 | 35.0 | 32 40.8 | 117 52.4 | 01/08 | 1053 | 1053 | 398 | 205 | 53 | |
| 93.3 | 40.0 | 32 30.9 | 118 12.8 | 01/08 | 1458 | 1458 | 403 | 212 | 35 | |
| 93.3 | 45.0 | 32 20.8 | 118 33.3 | 01/08 | 1903 | 1903 | 393 | 214 | 79 | |
| 93.3 | 50.0 | 32 10.8 | 118 53.6 | 01/08 | 2310 | 2310 | 486 | 206 | 76 | |
| 93.3 | 55.0 | 32 00.9 | 119 13.9 | 01/09 | 0332 | 0332 | 473 | 224 | 42 | |
| 93.3 | 60.0 | 31 50.8 | 119 34.2 | 01/09 | 0737 | 0737 | 586 | 196 | 32 | |
| 93.3 | 70.0 | 31 31.4 | 120 14.0 | 01/09 | 1347 | 1347 | 433 | 222 | 32 | |
| 93.3 | 80.0 | 31 10.9 | 120 55.2 | 01/09 | 2014 | 2014 | 515 | 205 | 47 | |
| 93.3 | 90.0 | 30 50.9 | 121 35.3 | 01/10 | 0231 | 0231 | 435 | 203 | 28 | |
| 93.3 | 100.0 | 30 30.9 | 122 15.3 | 01/10 | 0735 | 0735 | 424 | 213 | 14 | |
| 93.3 | 110.0 | 30 10.8 | 122 55.5 | 01/10 | 1502 | 1502 | 470 | 211 | 38 | |
| 93.3 | 120.0 | 29 50.9 | 123 35.2 | 01/10 | 2057 | 2057 | 466 | 209 | 60 | |
| 93.4 | 26.4 | 32 57.2 | 117 17.0 | 01/07 | 2042 | 2042 | 54 | 13 | 37 | |