

UNIVERSITY OF CALIFORNIA, SAN DIEGO SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

**CalCOFI Cruise 1101
12 January – 4 February 2011**

**CC Reference 12-02
14 August 2012**

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

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

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INTRODUCTION

The data presented in this report were collected during cruise 1101* 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 49.66 μCi of ^{14}C as NaHCO_3 (200 μl of stock solution) 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).

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) *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)
- 4) *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)
- 5) *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)
- 6) *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)
- 7) *Lagrangian Drifter Buoys.* Surface Velocity Program (SVP) drifters, drogued at 15 meters depth, were deployed at 7 stations. The drifter observations of position and SST approximately every hour following the 15-meter currents supplement Eulerian current profiles. This will provide new insight into the connection between continental shelf flows and the larger scale California Current located further offshore. Drifter pairs were deployed at 6 of the 7 stations to assess the relative motion of drifter pairs which gives an understanding of energy as a function of spatial scale. Drifter tracks are displayed in near real-time on the web (<http://www.icesc.ucsb.edu/drifter realtime-SVP/index.php>). (C. Ohlmann, UCSB)
- 8) *Nitrate isotope:* Seawater samples are acquired using the CTD-rosette and shipped frozen to Princeton University. The nitrogen and oxygen isotopic composition of nitrate is measured using strains of denitrifying bacteria that reduce nitrate to N₂O. (P. Rafter, Princeton University).

9) *Micronekton trawling:* A Matsuda-Oozeki-Hu trawl (MOHT) with 5 m² mouth opening and 1.77 mm mesh is used to sample the micronekton (krill, small pelagic fishes, squids, etc) within the epipelagic (upper 200 m) and mesopelagic (200 - 500 m) depth horizons. The samples provide size- and species composition data on the pelagic community, which is combined with Ek-60 multi-frequency acoustic data to estimate the distribution and abundance of the micronekton. (T. Koslow, SIO)

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 (cm³/1000m³ 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.

LITERATURE CITED

- Anderson, G. C., compiler, 1971. "Oxygen Analysis," Marine Technician's Handbook, SIO Ref. No. 71-8, Sea Grant Pub. No. 9.
- Carpenter, J. H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10: 141-143.
- Carter, D. J. T., 1980. Echo-sounding correction tables. Third Edition. Hydrographic Department, Ministry of Defence, Taunton, U.K., NP 139: 150 pp.
- Culberson, C. H. 1991. Dissolved oxygen. WHP Operations and Methods -- July 1991.
- Fitzwater, S. E., G. A. Knauer and J. H. Martin, 1982. Metal contamination and its effect on primary production measurements. *Limnol. Oceanogr.*, 27: 544-551.
- Gordon, L. I., J. C. Jennings, Jr., A. A. Ross, and J. M. Krest, 1993. A suggested protocol for continuous flow automated analysis of seawater nutrients (phosphate, nitrate, nitrite and silicic acid) in the WOCE Hydrographic Program and the Joint Global Ocean Fluxes Study. WOCE Operations Manual, Part 3.1.3 "WHP Operations and Methods," *WHP Office Report WHPO 91-1*.
- Holm-Hansen, O., C. J. Lorenzen, R. W. Holmes and J. D. H. Strickland, 1965. Fluorometric determination of chlorophyll. *J. Cons. perm. int. Explor. Mer.*, 30: 3-15.
- Klein, H. T., 1973. A new technique for processing physical oceanographic data. SIO Ref. No. 73-14.
- Koroleff, F. 1969. Direct determination of ammonia in natural waters as Indophenol Blue. Int. Con. Explor. Sea, C.M. C: 9.
- Koroleff, F. 1970. The above paper revised, Int. Con. Explor. Sea, Information on techniques and methods for sea water analysis. Interlab Report No. 3, 19-22.
- Kramer, D., M. J. Kalin, E. G. Stevens, J. R. Threlkill and J. R. Zweifel, 1972. Collecting and processing data on fish eggs and larvae in the California Current region. *NOAA Technical Report NMFS CIRC-370*: 38 pp.
- Lean, D. R. S. and B. K. Burnison, 1979. An evaluation of errors in the ^{14}C method of primary production measurement. *Limnol. Oceanogr.*, 24: 917-928.
- Reid, J. L. and A. W. Mantyla, 1976. The effect of the geostrophic flow upon coastal sea elevations in the northern North Pacific Ocean. *J. Geophys. Res.*, 81: 3100-3110.
- Parsons, T. R., Y. Maita, C. M. Lalli, 1984. *A Manual of Chemical and Biological Methods for Seawater Analysis*. Pergamon Press Ltd., 3-28.
- Saunders, P. M., 1981. Practical conversion of pressure to depth. *J. Phys. Oceanogr.*, 11: 573-574.
- Scripps Institution of Oceanography, University of California, 1991. Physical, Chemical and Biological Data, CalCOFI Cruises 9003 and 9004. SIO Ref. 91-4, 96 pp.
- UNESCO, 1981, a. Background papers and supporting data on the Practical Salinity Scale, 1978. *UNESCO Tech. Pap. in Mar. Sci.*, No. 37.
- UNESCO, 1981, b. Background papers and supporting data on the International Equation of State 1980. *UNESCO Tech. Pap. in Mar. Sci.*, No. 38.

- Venrick, E. L. and T. L. Hayward, 1984. Determining chlorophyll on the 1984 CalCOFI surveys. *CalCOFI Rep.*, Vol. XXV: 74-79.
- Weiss, R. F., 1970. The solubility of nitrogen, oxygen and argon in water and seawater. *Deep-Sea Res.*, 17: 721-735.
- Yentsch, C. S. and D. W. Menzel, 1963. A method for the determination of phytoplankton, chlorophyll and phaeophytin by fluorescence. *Deep-Sea Res.*, 10: 221-231.

FIGURES

Cruise 1101

1. CalCOFI Cruise 1101 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.

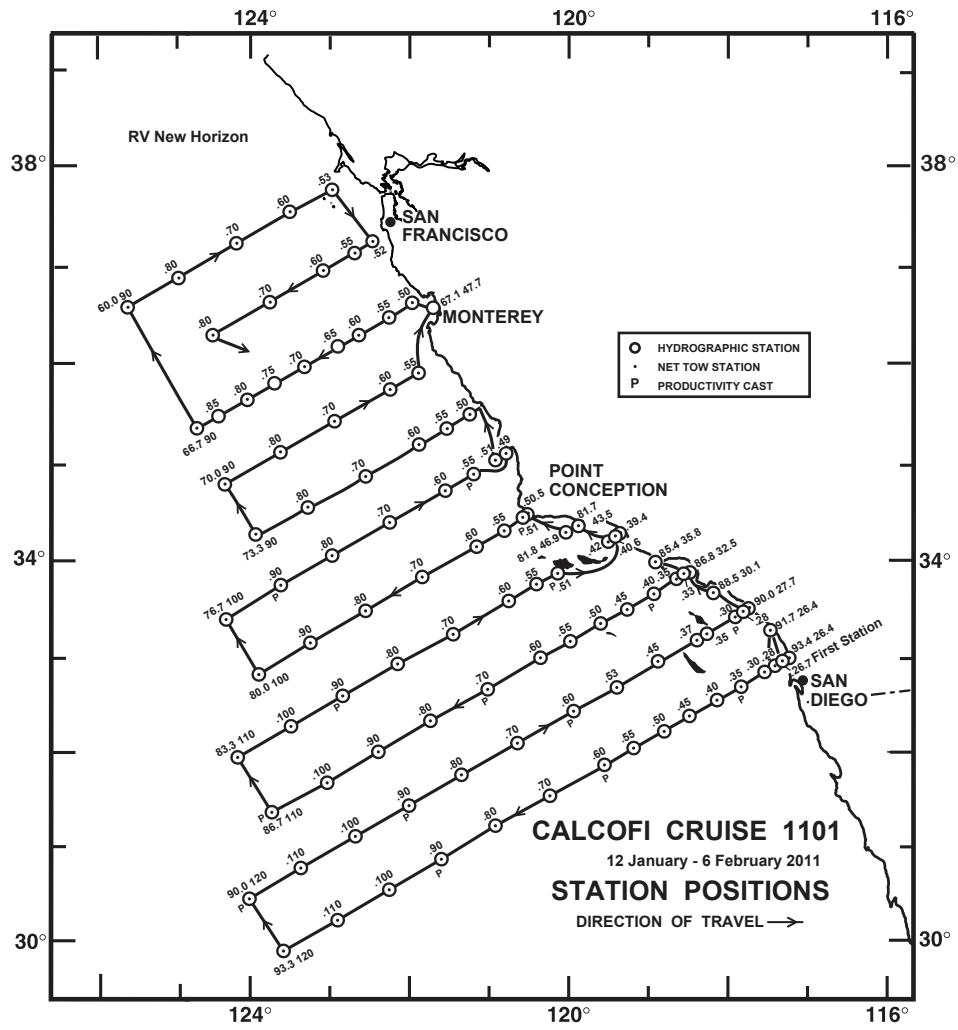


FIGURE 1

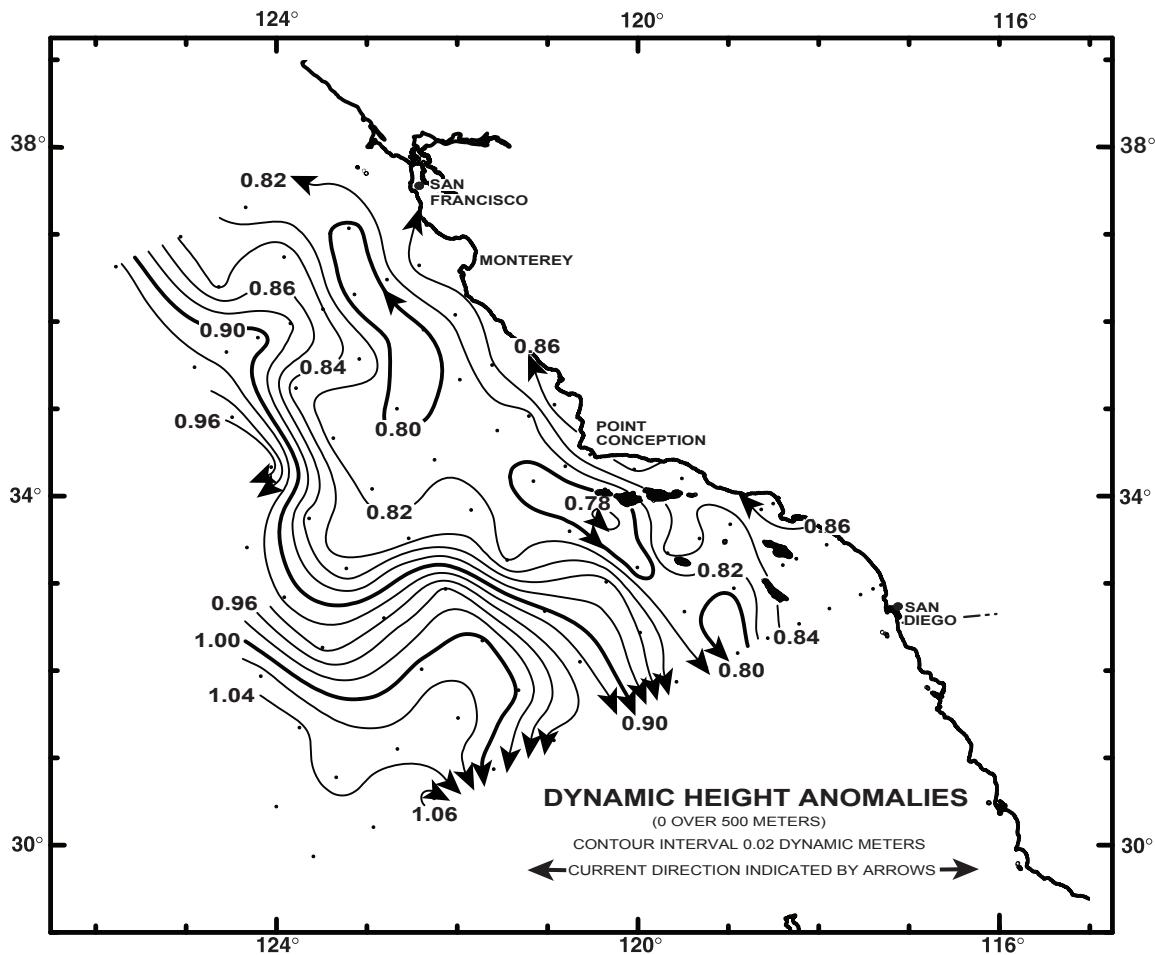


FIGURE 2

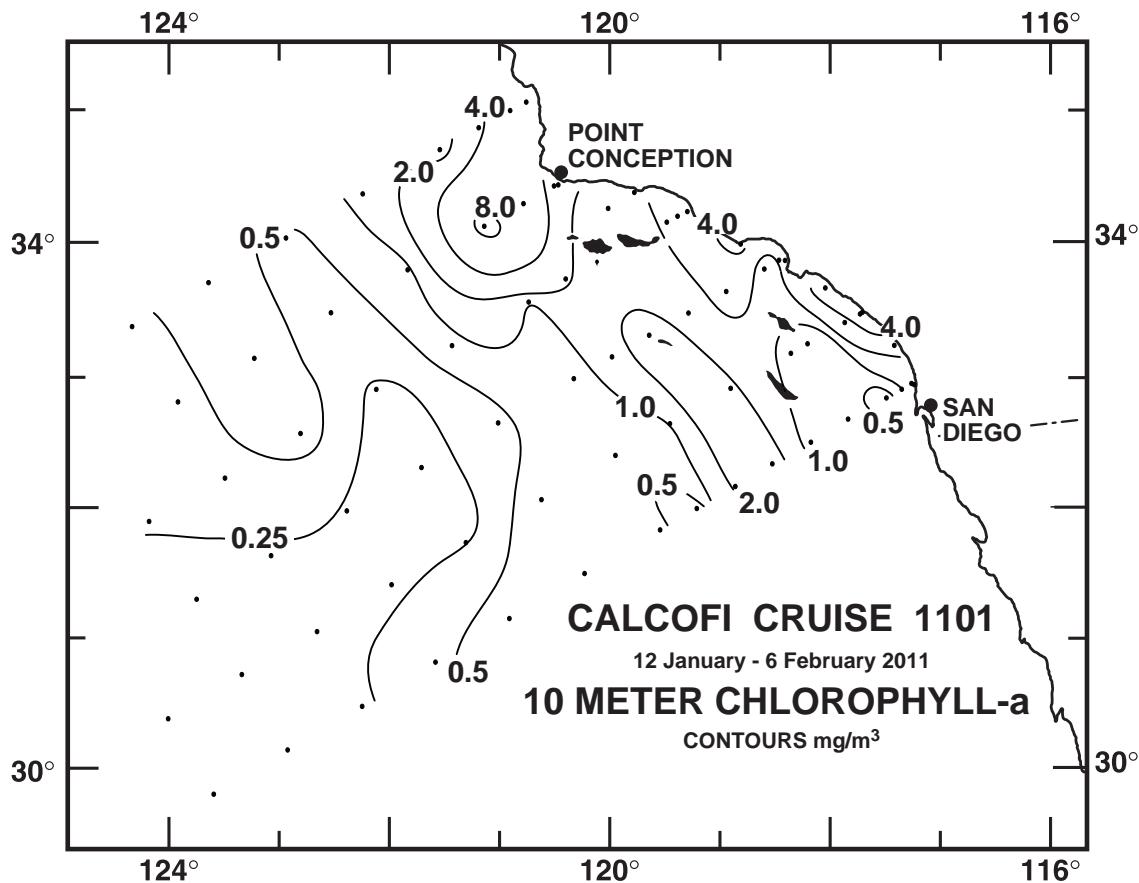


FIGURE 3A

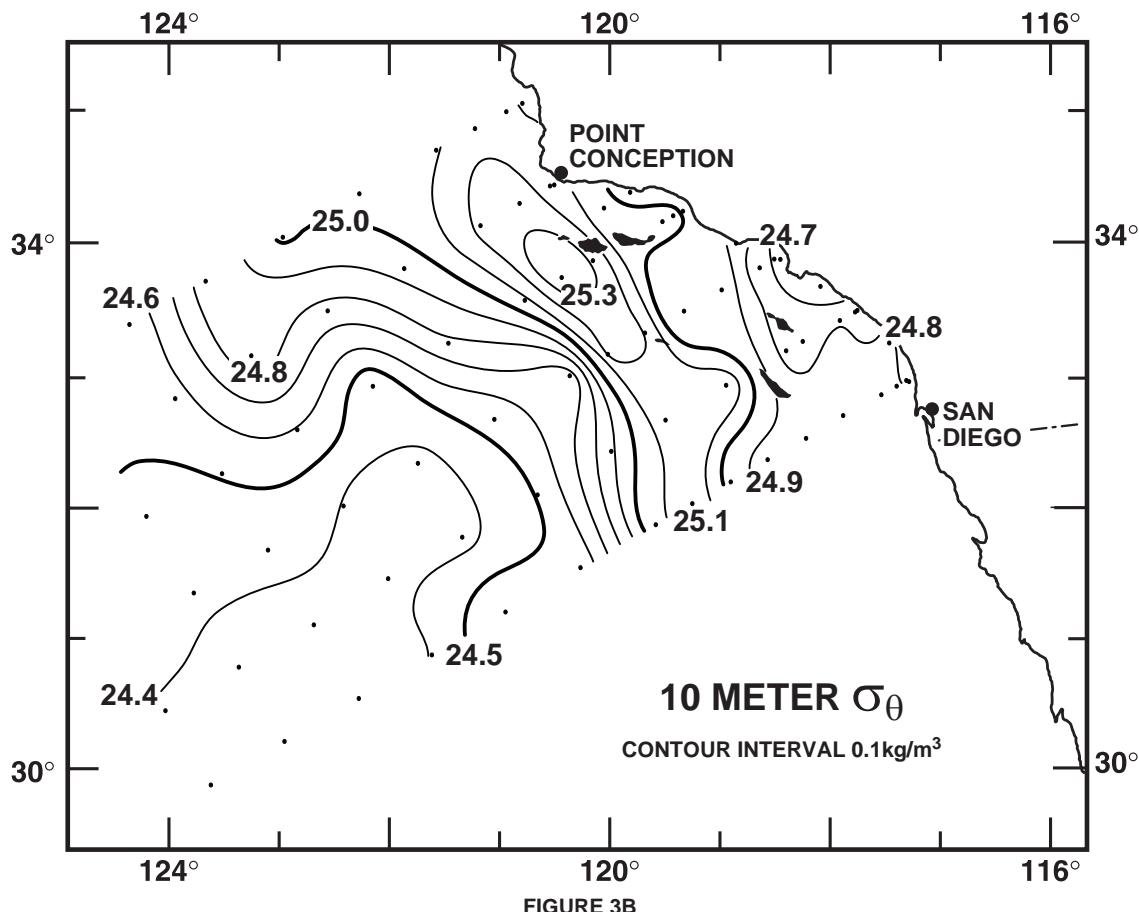


FIGURE 3B

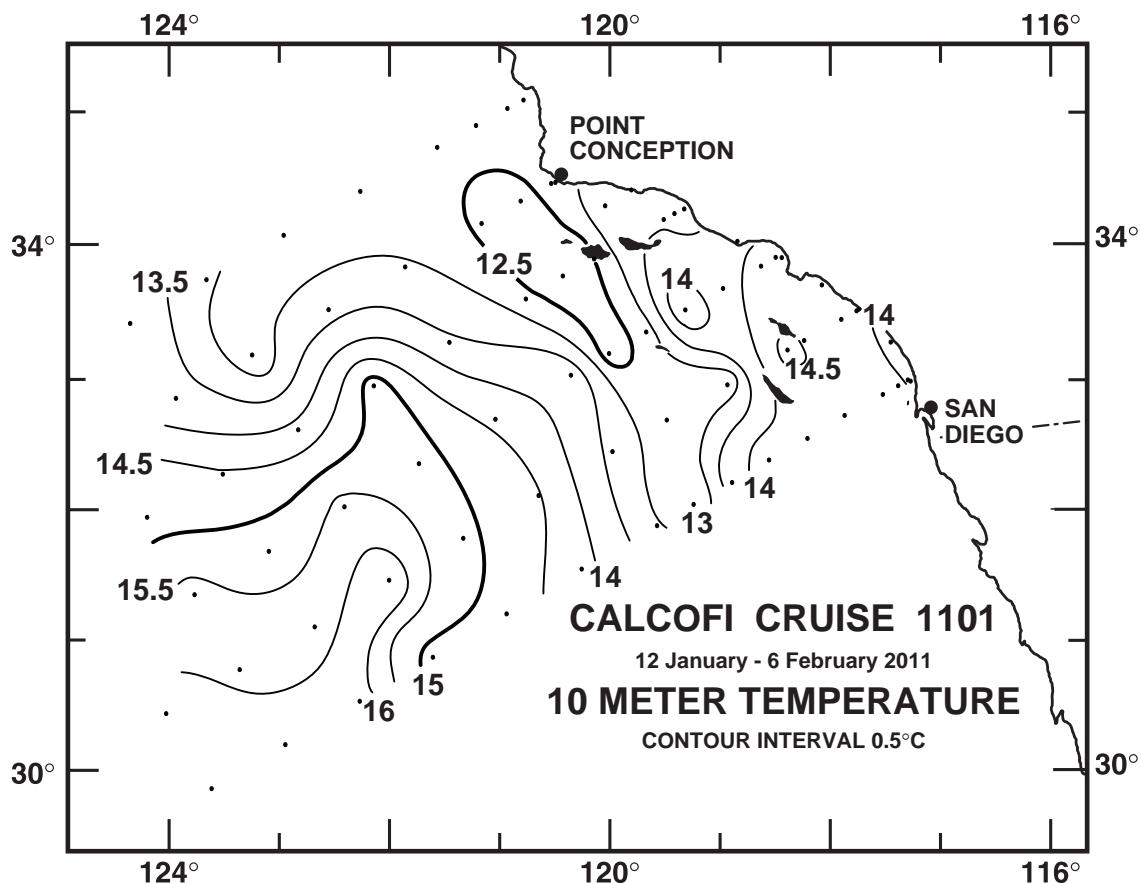


FIGURE 3C

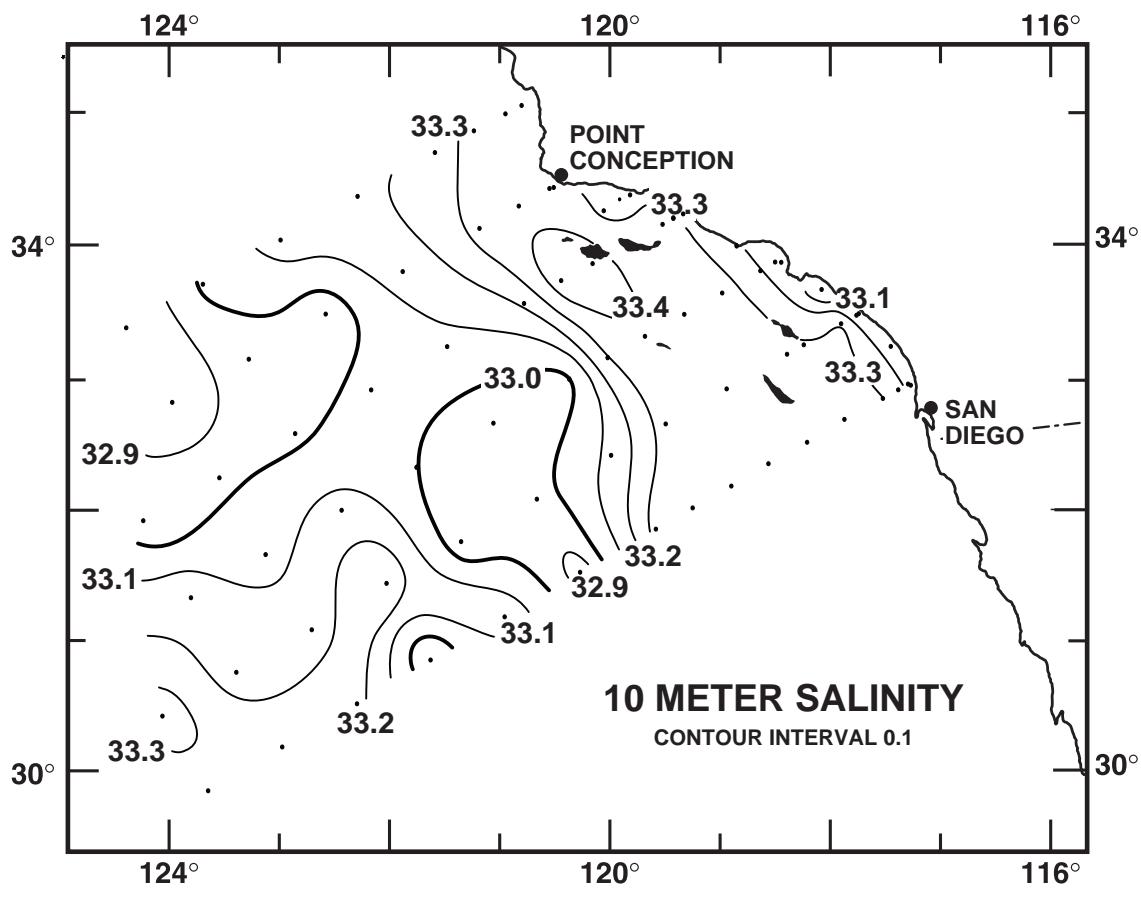


FIGURE 3D

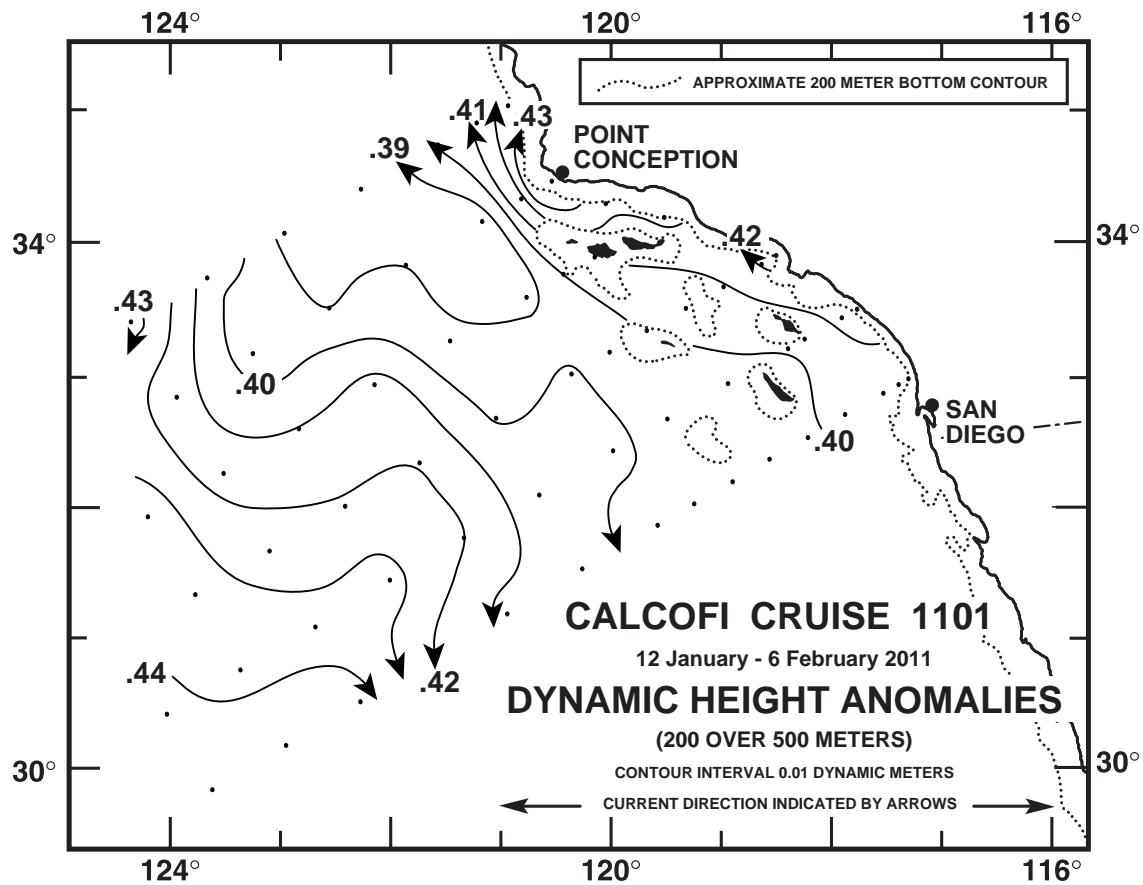


FIGURE 4A

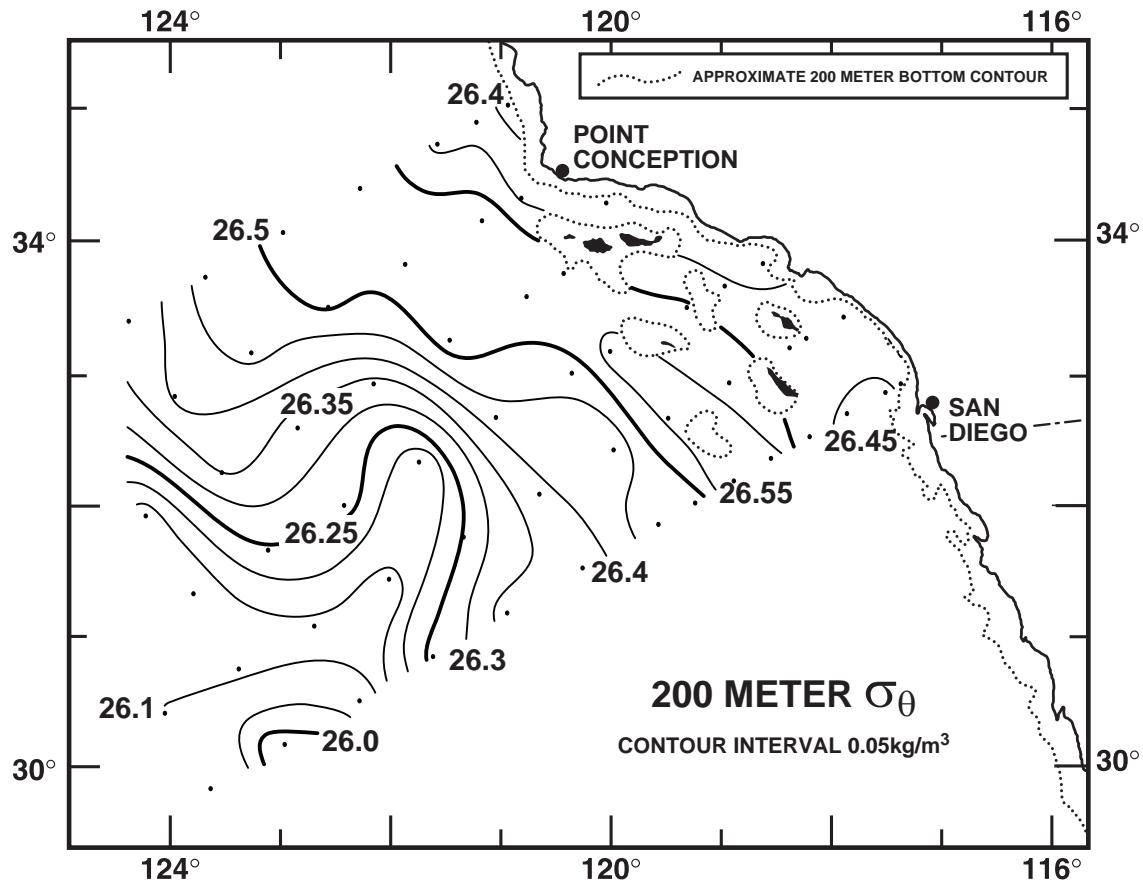


FIGURE 4B

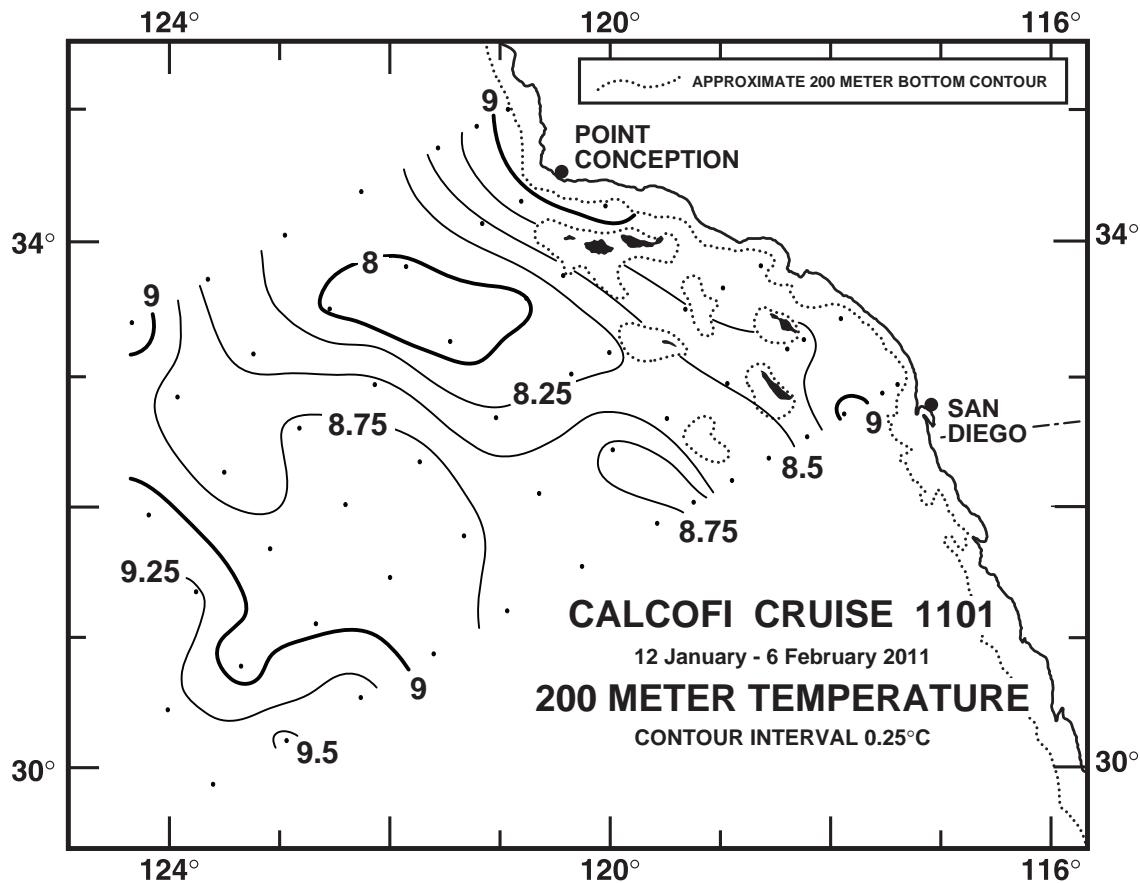


FIGURE 4C

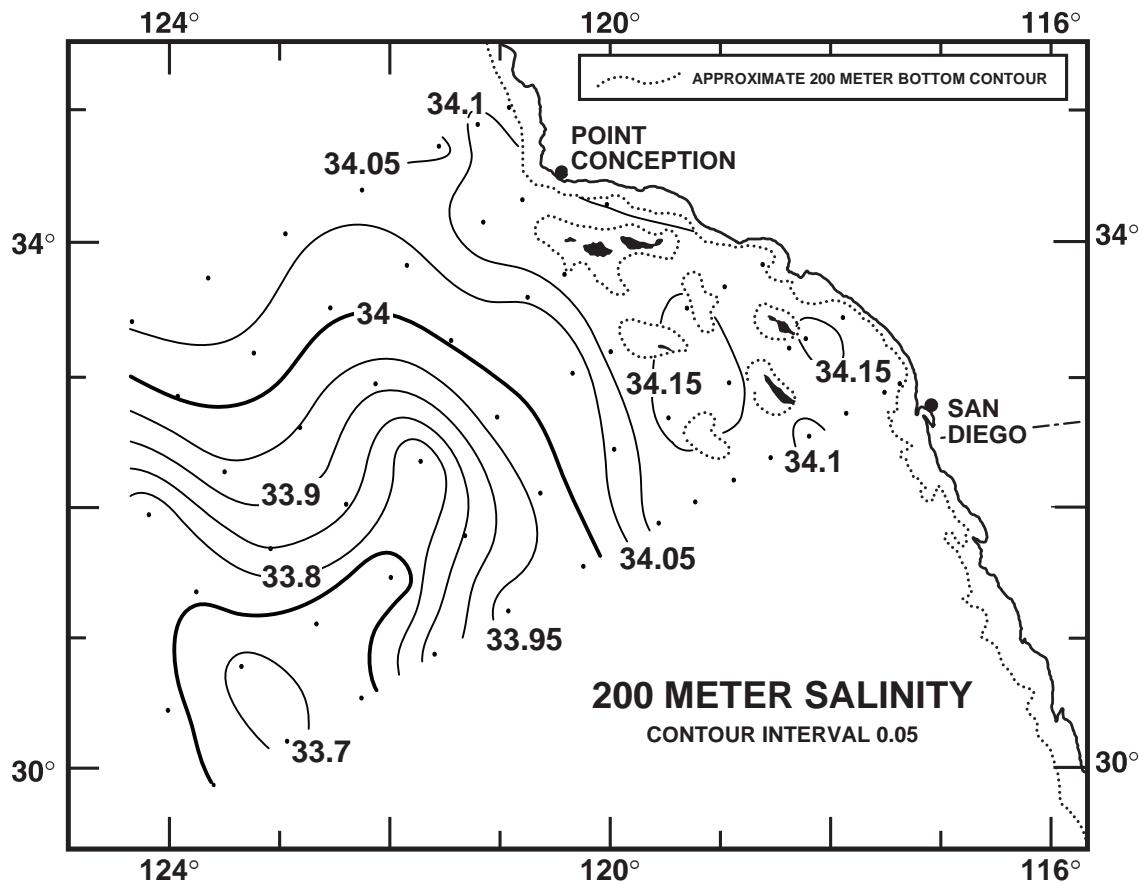
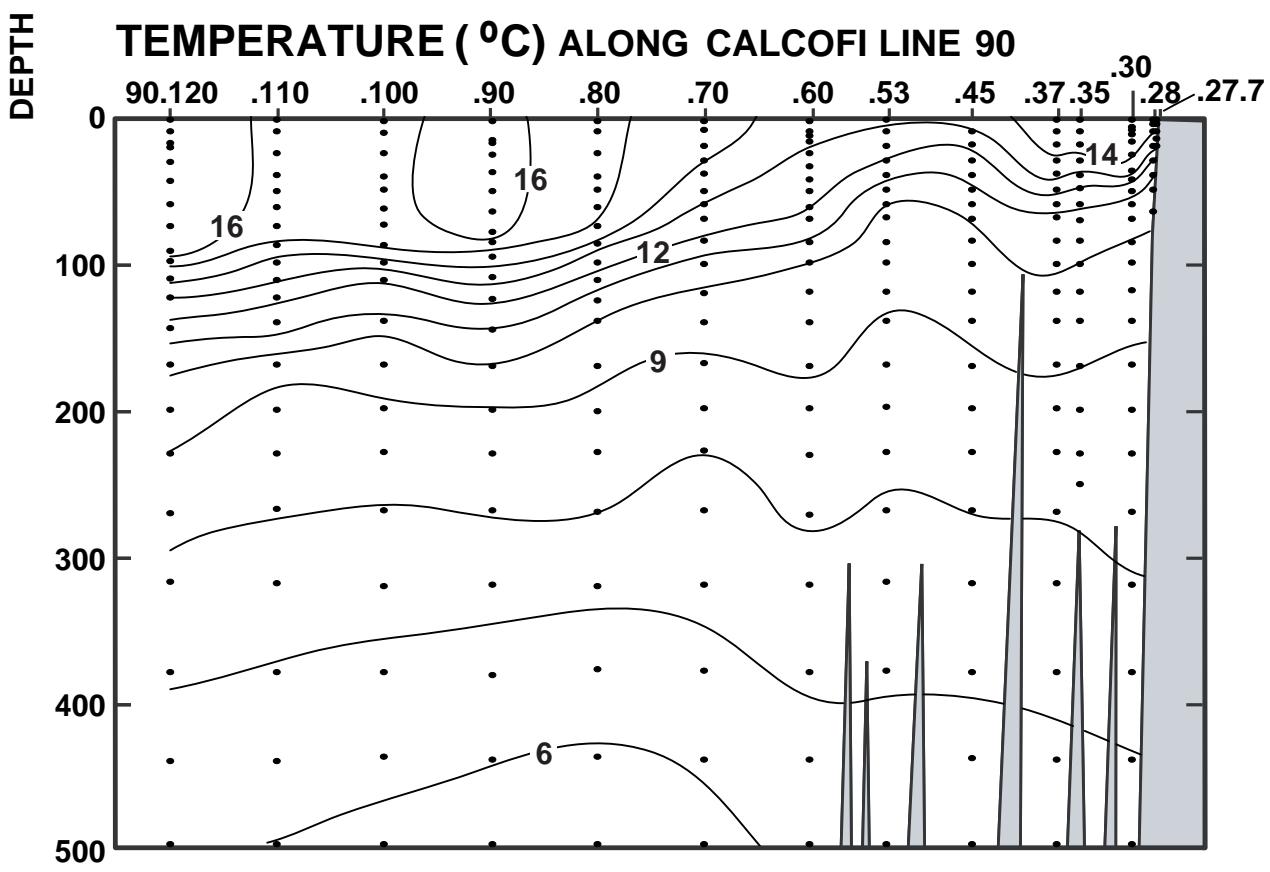
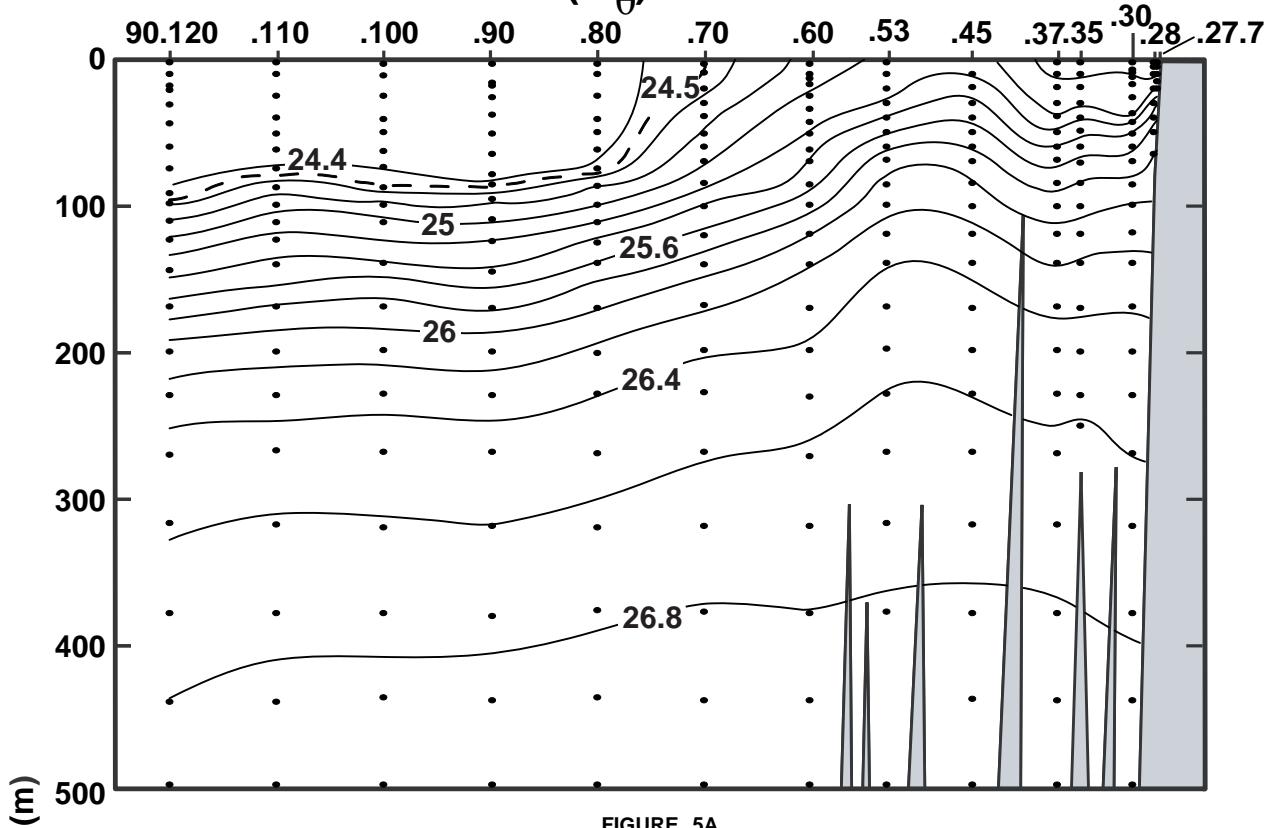


FIGURE 4D

CALCOFI CRUISE 1101

16 - 19 January 2011

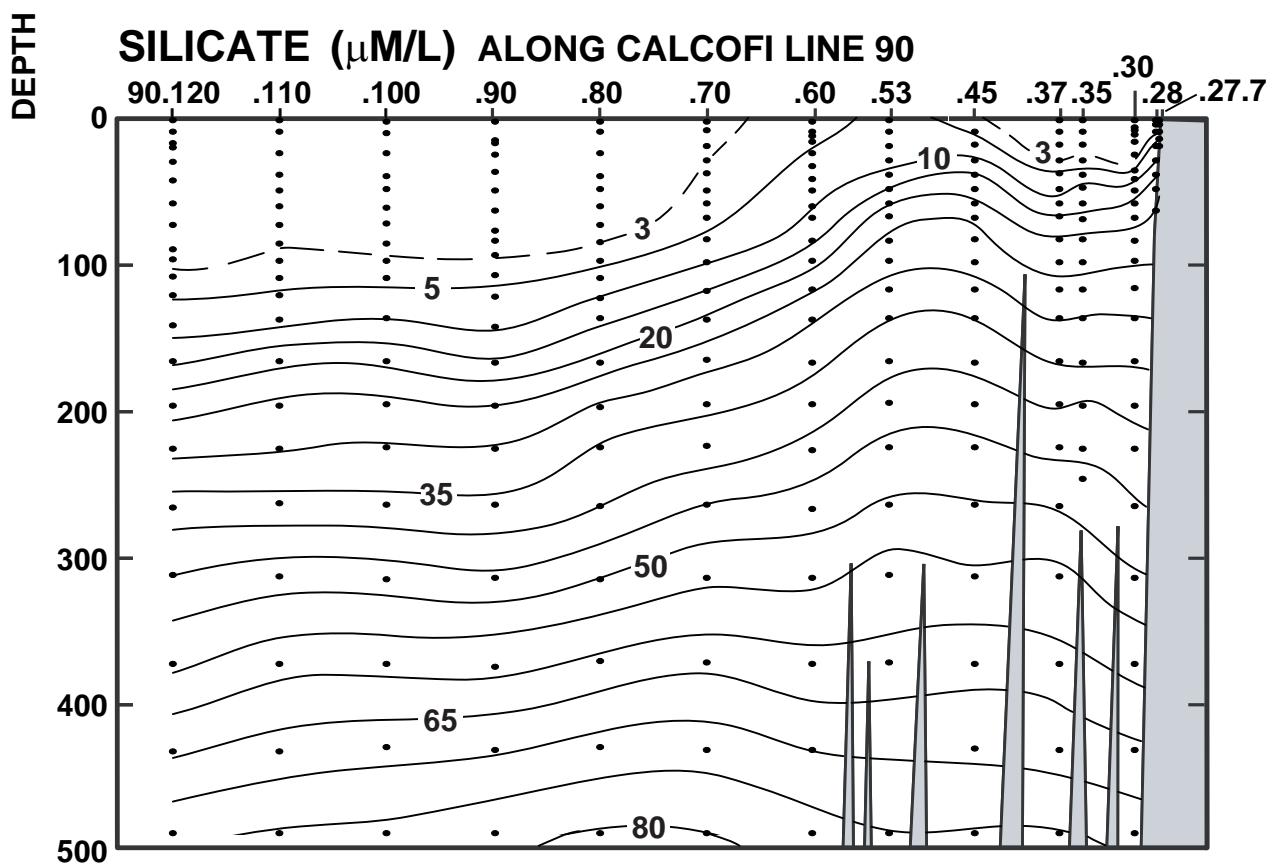
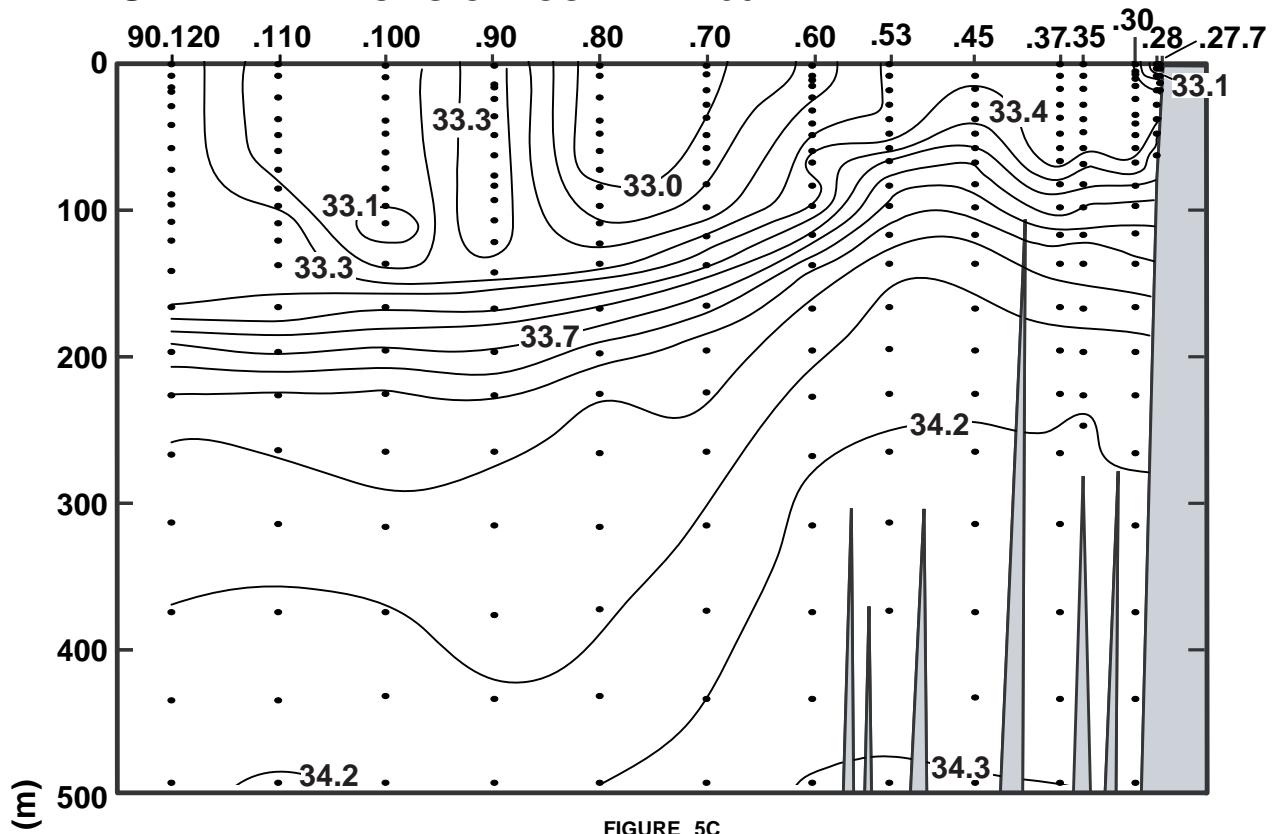
POTENTIAL DENSITY (σ_0) ALONG CALCOFI LINE 90



CALCOFI CRUISE 1101

16 - 19 January 2011

SALINITY ALONG CALCOFI LINE 90



CALCOFI CRUISE 1101

16 - 19 January 2011

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

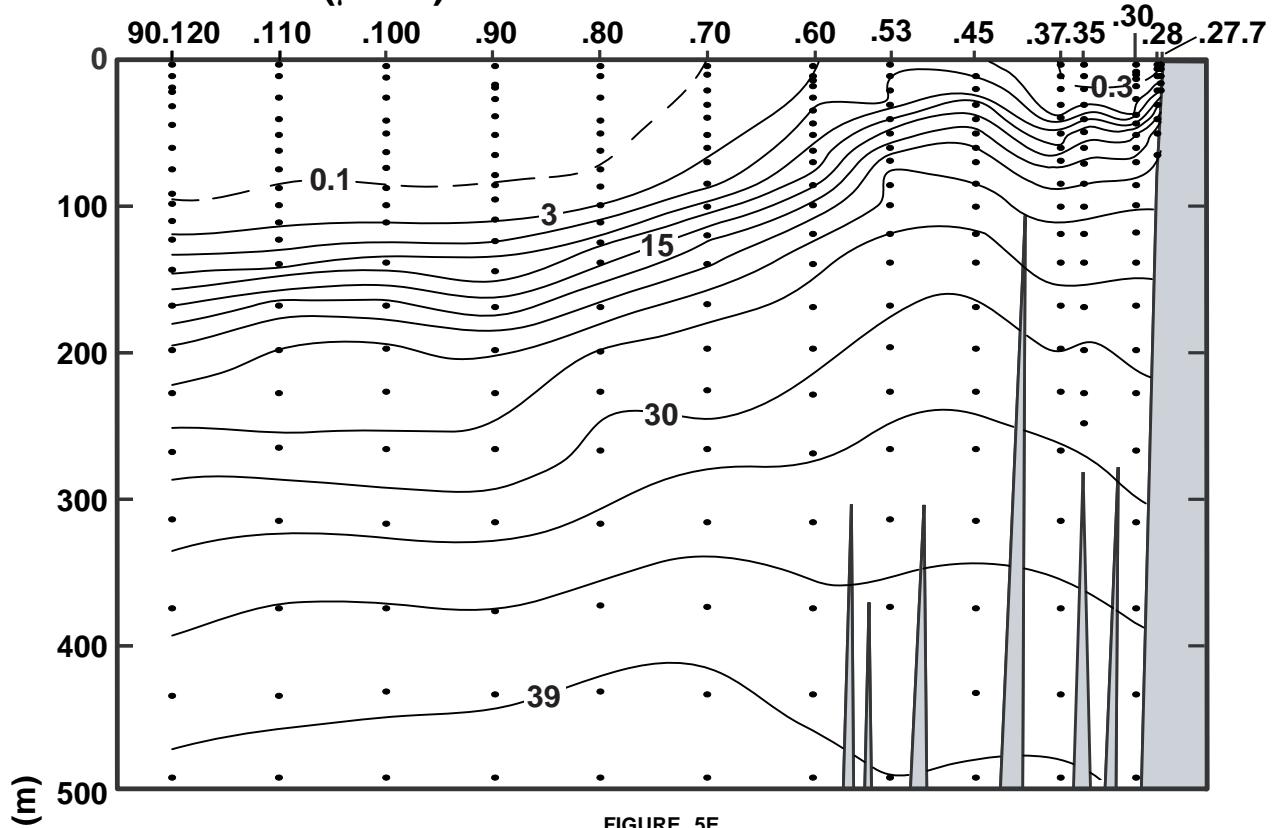


FIGURE 5E

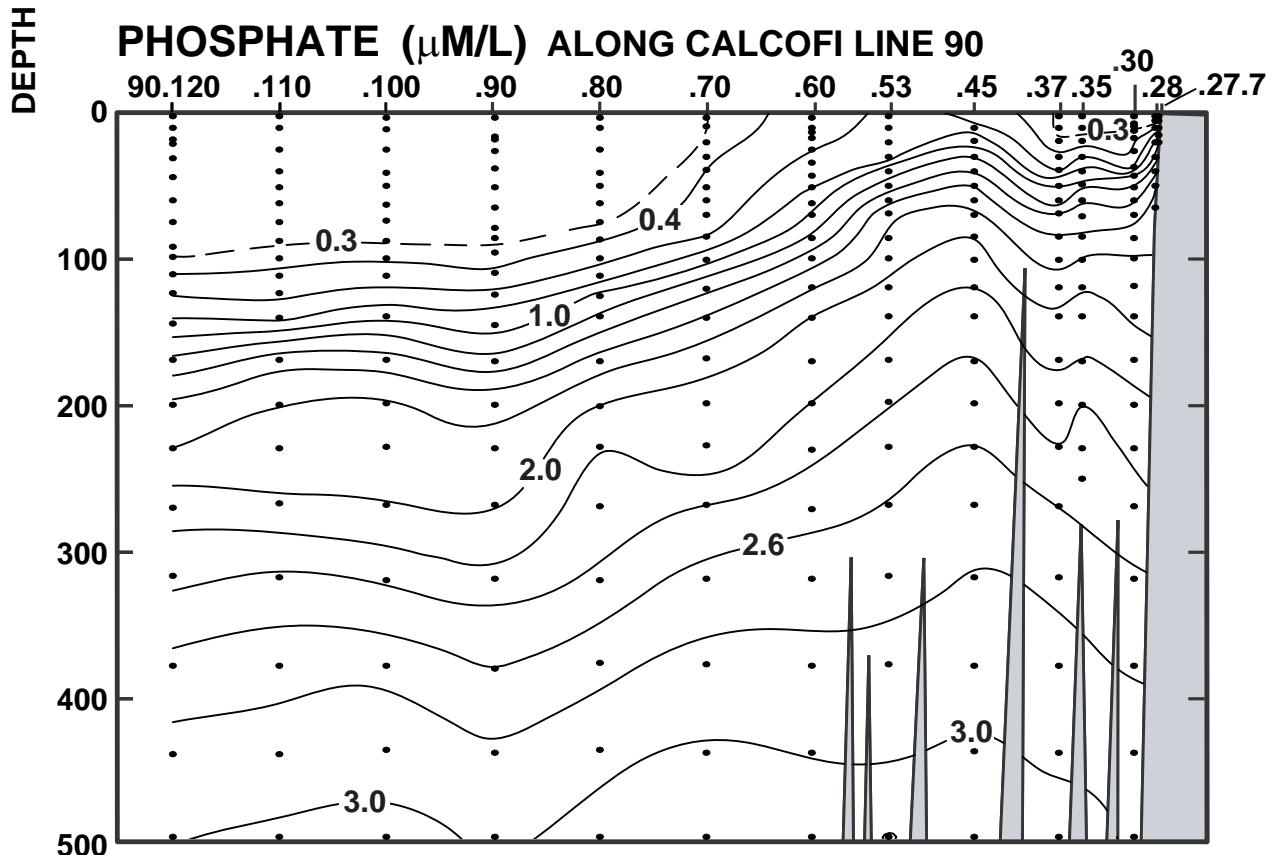


FIGURE 5F

CALCOFI CRUISE 1101

16 - 19 January 2011

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

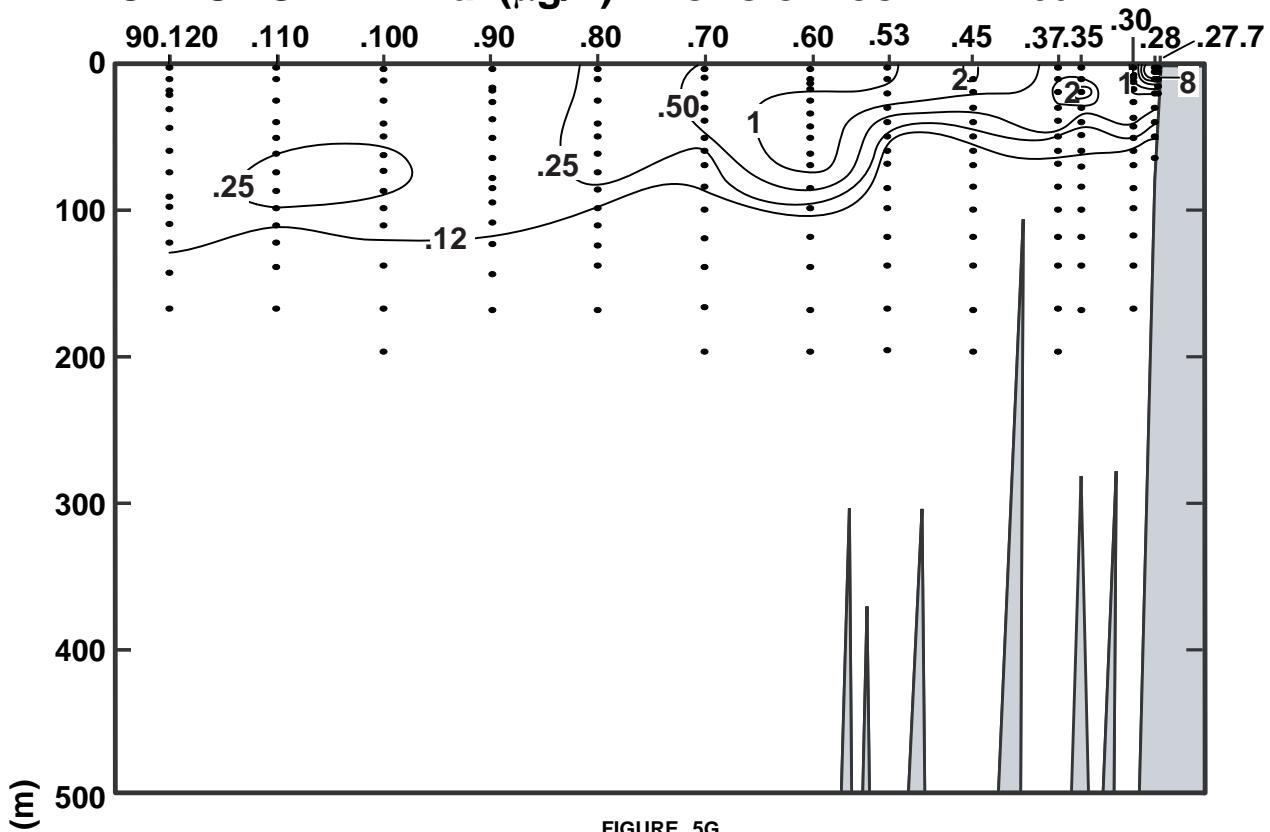


FIGURE 5G

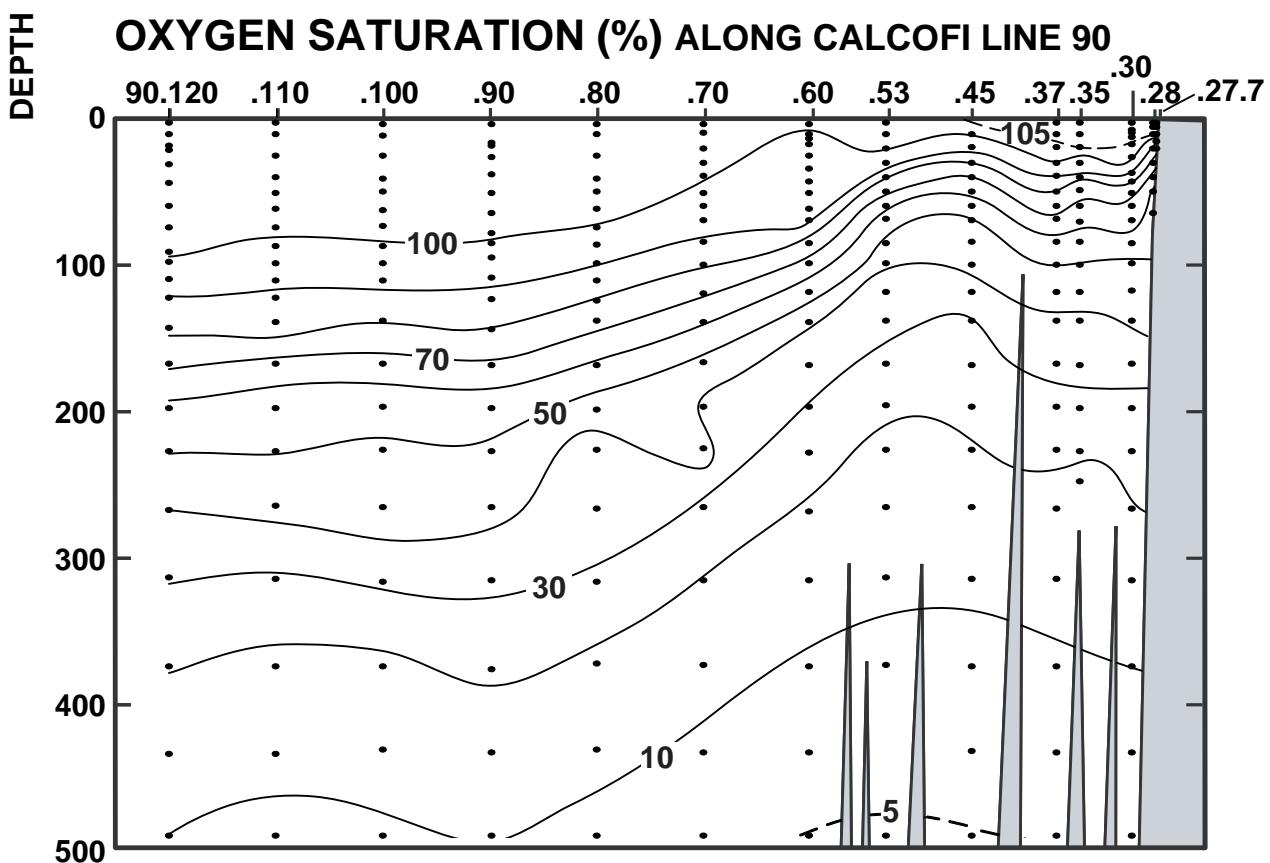
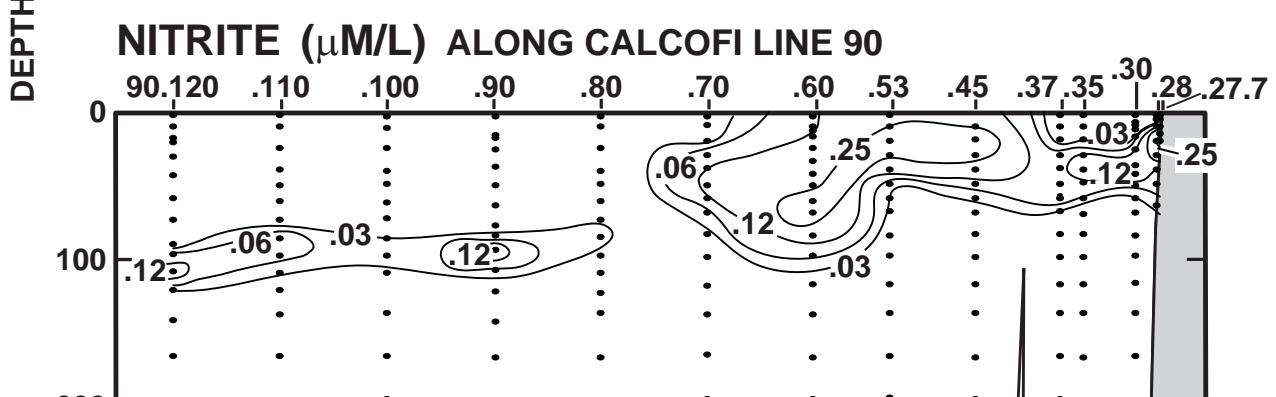
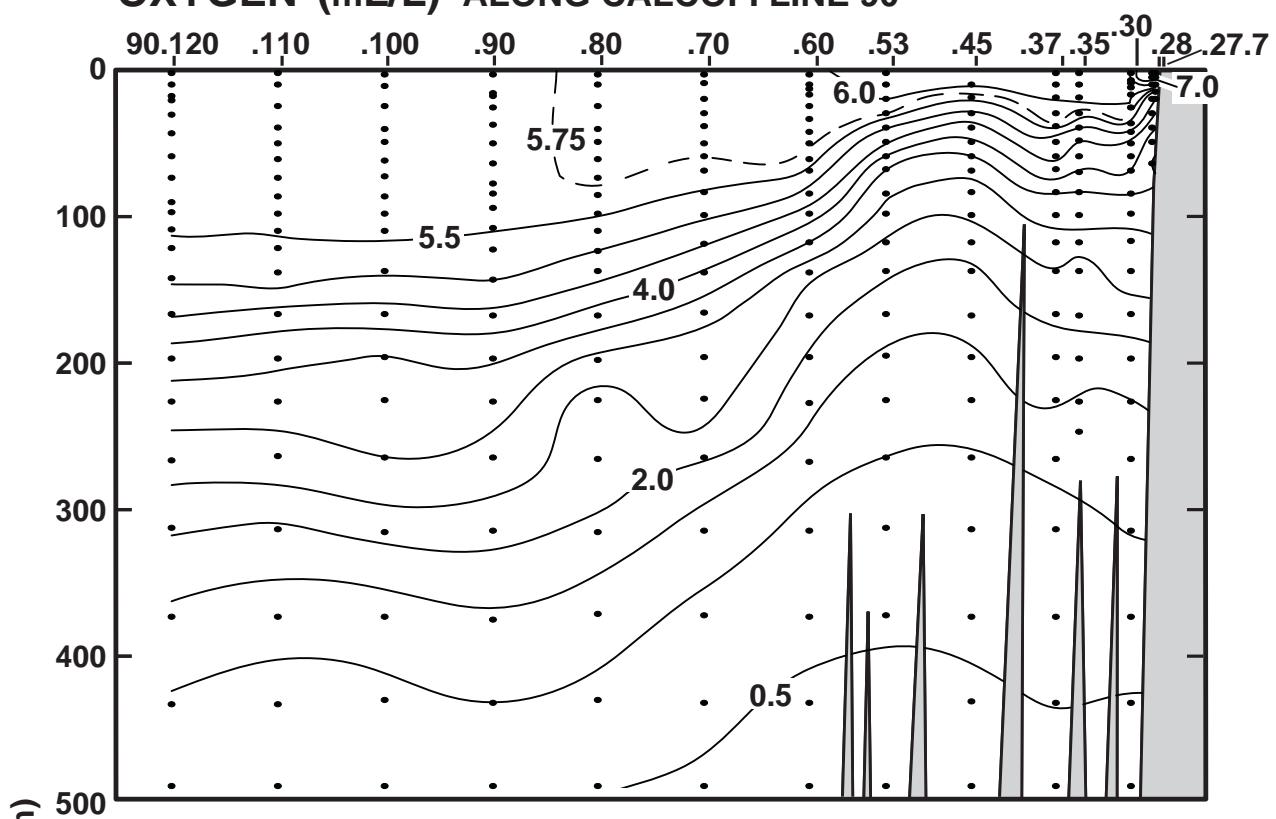


FIGURE 5H

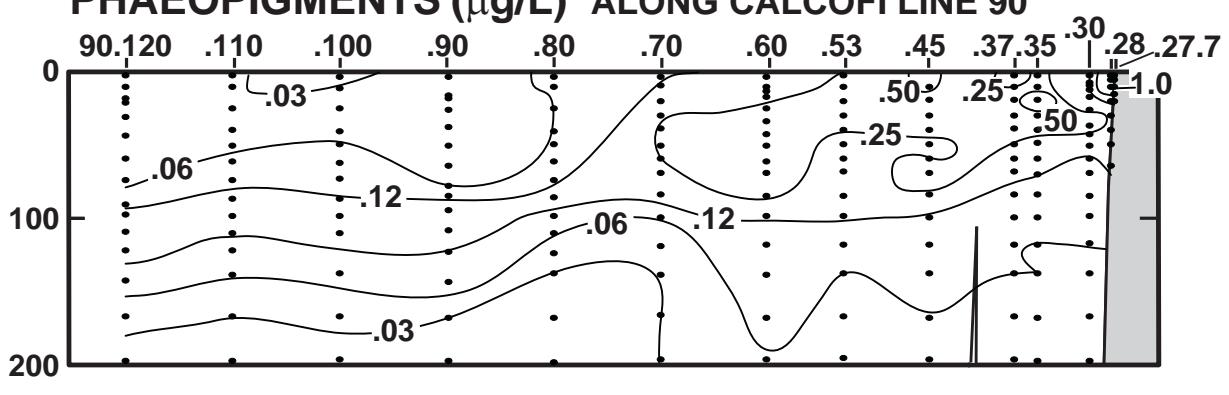
CALCOFI CRUISE 1101

16 - 19 January 2011

OXYGEN (mL/L) ALONG CALCOFI LINE 90



PHAEOPIGMENTS (μg/L) ALONG CALCOFI LINE 90



PERSONNEL

CalCOFI Cruise 1101

SHIP'S CAPTAIN

Murray Stein, RV *New Horizon*

PERSONNEL PARTICIPATING IN THE COLLECTION OF DATA

| | | Participating (Leg) |
|--|--------------------------------|---------------------|
| Griffith, David A (Chief Scientist) | Fishery Biologist, NMFS | 1-3 |
| Abramenkoff, Dimitry | Fishery Biologist, NMFS | 1-3 |
| Adams, Jesse | Contractor, UCSC | 2-3 |
| Allen, Caitlin | SIO | 1 |
| Aragon, Jennifer | Volunteer, SIO | 1-3 |
| Bassett, Hannah | Marine Mammal Acoustician, SIO | 1-3 |
| Becker, Susan | Staff Research Associate, SIO | 1-3 |
| Blum, Marguerite | Oceanographer, MBARI | 2-3 |
| Breese, Dawn | Bird Observer, FIAER | 2 |
| Camacho-Wiley Dominique | Marine Mammal Observer, MPL | 1-3 |
| Dovel, Shonna | Staff Research Associate, SIO | 1 |
| Faber, David | Staff Research Associate, SIO | 1 |
| Manion, Susan | Fishery Biologist, NMFS | 1-3 |
| Renfree, Josiah | Acoustic Technician, SWFSC | 1 |
| Roadman, Megan | Staff Research Associate, SIO | 1 |
| Rodgers-Wolgast, Jennifer | Staff Research Associate, SIO | 1 |
| Sessions, Steve | Acoustic Technician, SWFSC | 1-3 |
| Shaw, Katherine | Volunteer, SIO | 1-3 |
| Susner, Grant M. | Staff Research Associate, SIO | 1-3 |
| Webb, Sophie | Bird Observer, FIAER | 1 |
| Whitaker, Katherine | Marine Mammal Observer, MPL | 1-3 |
| Wolgast, David | Staff Research Associate, SIO | 1-3 |

San Diego to Avila, California, 12 Jan. – 29 Jan., 2011

Avila to Santa Cruz, California, 29 Jan. – 31 Jan., 2011

Santa Cruz to San Diego, California, 31 Jan. – 4 Feb., 2011

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 60.0 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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 11.86 | 11.86 | 32.711 | 24.838 | 310.2 | 0.000 | 7.74 | 125.7 | | | | | | 8.28 | 1.11 | 0 | |
| 2 | 11.86 | 11.86 | 32.711 | 24.838 | 310.2 | 0.006 | 7.74 | 125.7 | | | | | | 8.28 | 1.11 | 2 | 209 |
| 5 | 11.76 | 11.76 | 32.723 | 24.866 | 307.6 | 0.015 | 7.45 | 120.7 | | | | | | 9.10 | 1.34 | 5 | 208 |
| 10 | 11.62 | 11.62 | 32.796 | 24.949 | 299.9 | 0.031 | 6.79 | 109.8 | | | | | | 5.39 | 0.90 | 10 | 207 |
| 20 | 11.46 | 11.46 | 33.182 | 25.278 | 268.8 | 0.059 | 5.44 | 87.9 | | | | | | 1.89 | 0.71 | 20 | 206 |
| 30 | 11.12 | 11.12 | 33.376 | 25.491 | 248.8 | 0.085 | 4.82 | 77.4 | | | | | | 0.44 | 0.42 | 30 | 205 |
| 40 | 10.71 | 10.71 | 33.493 | 25.655 | 233.4 | 0.109 | 4.16 | 66.2 | | | | | | 0.31 | 0.36 | 40 | 204 |
| 50 | 10.22 | 10.21 | 33.565 | 25.796 | 220.2 | 0.132 | 3.63 | 57.2 | | | | | | 0.24 | 0.40 | 50 | 203 |
| 61 | 10.02 | 10.01 | 33.642 | 25.890 | 211.5 | 0.156 | 3.25 | 51.0 | | | | | | 0.16 | 0.31 | 61 | 202 |
| 75 ISL | 9.73 | 9.72 | 33.747 | D 26.021 | 199.3 | 0.184 | 2.79 | 43.5 | | | | | | 0.12 | 0.32 | 75 | |
| 80 | 9.72 | 9.71 | 33.752 | 26.026 | 198.9 | 0.194 | 2.66 | 41.5 | | | | | | 0.11 | 0.33 | 80 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 60.0 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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 11.83 | 11.83 | 33.251 | 25.263 | 269.7 | 0.000 | 6.17 | 100.5 | | | | | | 0.53 | 0.18 | 0 | |
| 3 | 11.83 | 11.83 | 33.251 | 25.263 | 269.8 | 0.008 | 6.17 | 100.5 | | | | | | 0.53 | 0.18 | 3 | 220 |
| 5 | 11.83 | 11.83 | 33.251 | 25.263 | 269.8 | 0.013 | | | | | | | | 0.49 | 0.20 | 5 | 219 |
| 10 | 11.81 | 11.81 | 33.251 | 25.267 | 269.6 | 0.027 | 6.16 | 100.3 | | | | | | 0.63 | 0.16 | 10 | 218 |
| 20 | 11.80 | 11.80 | 33.266 | 25.281 | 268.5 | 0.054 | 6.14 | 99.9 | | | | | | 0.71 | 0.32 | 20 | 217 |
| 30 | 11.78 | 11.78 | 33.282 | 25.297 | 267.2 | 0.081 | 6.20 | 100.9 | | | | | | 0.77 | 0.24 | 30 | 216 |
| 41 | 11.74 | 11.73 | 33.293 | 25.313 | 266.0 | 0.110 | 6.07 | 98.7 | | | | | | 0.64 | 0.29 | 41 | 215 |
| 49 | 11.14 | 11.13 | 33.334 | 25.455 | 252.7 | 0.131 | 5.25 | 84.3 | | | | | | 0.34 | 0.23 | 49 | 214 |
| 50 ISL | 10.93 | D 10.92 | 33.358 | D 25.511 | 247.3 | 0.133 | 4.92 | D 78.6 | | | | | | 0.32 | 0.24 | 50 | |
| 60 | 10.65 | 10.64 | 33.486 | 25.660 | 233.4 | 0.157 | 4.16 | D 66.1 | | | | | | 0.19 | 0.36 | 60 | 213 |
| 75 ISL | 9.95 | D 9.94 | 33.642 | D 25.902 | 210.6 | 0.191 | 3.38 | D 53.0 | | | | | | 0.06 | 0.23 | 75 | |
| 80 | 9.86 | 9.85 | 33.663 | 25.933 | 207.7 | 0.201 | 3.17 | 49.6 | | | | | | 0.04 | 0.17 | 80 | 212 |
| 100 ISL | 9.45 | D 9.44 | 33.756 | D 26.074 | 194.7 | 0.241 | 2.92 | D 45.3 | | | | | | 0.02 | 0.17 | 101 | |
| 101 | 9.47 | 9.46 | 33.755 | 26.070 | 195.1 | 0.243 | 2.87 | 44.5 | | | | | | 0.02 | 0.17 | 102 | 211 |
| 119 | 9.34 | 9.33 | 33.861 | 26.174 | 185.6 | 0.277 | 2.42 | 37.5 | | | | | | 0.04 | 0.13 | 120 | 210 |
| 125 ISL | 9.34 | D 9.33 | 33.876 | D 26.186 | 184.6 | 0.289 | 2.39 | D 37.0 | | | | | | 0.04 | 0.12 | 126 | |
| 150 ISL | 8.88 | D 8.86 | 33.933 | D 26.304 | 173.8 | 0.333 | 2.36 | D 36.2 | | | | | | 0.02 | 0.10 | 151 | |
| 151 | 8.93 | 8.91 | 33.926 | 26.291 | 175.1 | 0.335 | 2.33 | 35.8 | | | | | | 0.02 | 0.10 | 152 | 209 |
| 170 | 8.79 | 8.77 | 33.986 | 26.360 | 168.8 | 0.368 | 2.17 | D 33.2 | | | | | | 0.02 | 0.11 | 171 | 208 |
| 200 ISL | 8.48 | D 8.46 | 34.020 | D 26.435 | 162.2 | 0.417 | 2.00 | D 30.4 | | | | | | 0.02 | 0.08 | 201 | |
| 202 | 8.48 | 8.46 | 34.022 | 26.437 | 162.1 | 0.421 | 1.94 | 29.5 | | | | | | 0.02 | 0.08 | 203 | 207 |
| 230 | 8.11 | 8.09 | 34.065 | 26.527 | 153.9 | 0.465 | 1.69 | D 25.5 | | | | | | | 231 | 206 | |
| 250 ISL | 7.89 | D 7.86 | 34.081 | D 26.572 | 149.9 | 0.495 | 1.55 | D 23.2 | | | | | | | 252 | | |
| 270 | 7.67 | 7.64 | 34.091 | 26.612 | 146.3 | 0.525 | 1.44 | 21.5 | | | | | | | 272 | 205 | |
| 300 ISL | 7.33 | D 7.30 | 34.114 | D 26.679 | 140.3 | 0.568 | 1.22 | D 18.1 | | | | | | | 302 | | |
| 321 | 7.18 | 7.15 | 34.131 | 26.714 | 137.2 | 0.597 | 1.05 | D 15.5 | | | | | | | 323 | 204 | |
| 380 | 6.67 | 6.64 | 34.155 | 26.803 | 129.4 | 0.676 | 0.82 | 12.0 | | | | | | | 383 | 203 | |
| 400 ISL | 6.57 | D 6.53 | 34.171 | D 26.829 | 127.1 | 0.701 | 0.76 | D 11.1 | | | | | | | 403 | | |
| 442 | 6.35 | 6.31 | 34.200 | 26.881 | 122.6 | 0.754 | 0.59 | D 8.5 | | | | | | | 445 | 202 | |
| 500 ISL | 5.96 | D 5.92 | 34.222 | D 26.949 | 116.6 | 0.823 | 0.47 | D 6.7 | | | | | | | 504 | | |
| 515 | 5.79 | 5.75 | 34.222 | 26.970 | 114.6 | 0.841 | 0.43 | 6.1 | | | | | | | 519 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 60.0 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 | 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 | 11.56 | 11.56 | 33.043 | 25.151 | 280.4 | 0.000 | 6.23 | 100.7 | | | | | | | 0.66 | 0.16 | 0 | |
| 3 | 11.56 | 11.56 | 33.043 | 25.151 | 280.4 | 0.008 | 6.23 | 100.7 | | | | | | | 0.66 | 0.16 | 3 | 220 |
| 5 | 11.55 | 11.55 | 33.042 | 25.153 | 280.4 | 0.014 | | | | | | | | | 0.70 | 0.14 | 5 | 219 |
| 10 ISL | 11.56 D | 11.56 | 33.041 D | 25.150 | 280.7 | 0.028 | 6.23 | D 100.7 | | | | | | | 0.65 | 0.16 | 10 | |
| 11 | 11.56 | 11.56 | 33.042 | 25.151 | 280.7 | 0.031 | 6.25 | 101.1 | | | | | | | 0.64 | 0.16 | 11 | 218 |
| 20 | 11.54 | 11.54 | 33.052 | 25.163 | 279.8 | 0.056 | 6.20 | 100.2 | | | | | | | 0.89 | 0.31 | 20 | 217 |
| 30 ISL | 11.44 D | 11.44 | 33.113 D | 25.228 | 273.8 | 0.084 | 5.97 | D 96.3 | | | | | | | 0.65 | 0.25 | 30 | |
| 31 | 11.43 | 11.43 | 33.114 | 25.231 | 273.5 | 0.086 | 5.90 | D 95.2 | | | | | | | 0.61 | 0.24 | 31 | 216 |
| 40 | 10.99 | 10.99 | 33.243 | 25.411 | 256.6 | 0.110 | 5.16 | D 82.5 | | | | | | | 0.31 | 0.30 | 40 | 215 |
| 50 | 10.56 | 10.55 | 33.491 | 25.679 | 231.3 | 0.135 | 3.97 | 63.0 | | | | | | | 0.15 | 0.27 | 50 | 214 |
| 60 | 9.99 | 9.98 | 33.617 | 25.875 | 212.8 | 0.157 | 3.27 | D 51.3 | | | | | | | 0.07 | 0.24 | 60 | 213 |
| 75 ISL | 9.64 D | 9.63 | 33.679 D | 25.982 | 203.0 | 0.188 | 3.12 | D 48.6 | | | | | | | 0.05 | 0.20 | 75 | |
| 79 | 9.62 | 9.61 | 33.715 | 26.014 | 200.1 | 0.196 | 2.90 | 45.1 | | | | | | | 0.04 | 0.19 | 79 | 212 |
| 100 ISL | 9.30 D | 9.29 | 33.830 D | 26.156 | 186.9 | 0.237 | 2.56 | D 39.6 | | | | | | | 0.03 | 0.13 | 101 | |
| 101 | 9.30 | 9.29 | 33.830 | 26.156 | 186.9 | 0.239 | 2.55 | 39.4 | | | | | | | 0.03 | 0.13 | 102 | 211 |
| 119 | 9.10 | 9.09 | 33.908 | 26.250 | 178.4 | 0.272 | 2.36 | 36.3 | | | | | | | 0.02 | 0.16 | 120 | 210 |
| 125 ISL | 9.06 D | 9.05 | 33.914 D | 26.261 | 177.5 | 0.282 | 2.36 | D 36.3 | | | | | | | 0.02 | 0.15 | 126 | |
| 150 ISL | 8.80 D | 8.78 | 34.005 D | 26.373 | 167.2 | 0.325 | 1.99 | D 30.5 | | | | | | | 0.02 | 0.09 | 151 | |
| 151 | 8.83 | 8.81 | 34.004 | 26.368 | 167.8 | 0.327 | 1.98 | 30.3 | | | | | | | 0.02 | 0.09 | 152 | 209 |
| 170 | 8.47 | 8.45 | 34.013 | 26.431 | 162.0 | 0.358 | 2.09 | D 31.8 | | | | | | | 0.02 | 0.08 | 171 | 208 |
| 200 ISL | 8.20 D | 8.18 | 34.069 D | 26.516 | 154.4 | 0.406 | 1.70 | D 25.7 | | | | | | | 0.02 | 0.07 | 201 | |
| 201 | 8.21 | 8.19 | 34.064 | 26.511 | 155.0 | 0.407 | 1.75 | 26.4 | | | | | | | 0.02 A | 0.07 A | 202 | 207 |
| 229 | 7.97 | 7.95 | 34.102 | 26.577 | 149.1 | 0.450 | 1.42 | D 21.3 | | | | | | | | | 230 | 206 |
| 250 ISL | 7.81 D | 7.79 | 34.106 D | 26.604 | 146.8 | 0.481 | 1.37 | D 20.5 | | | | | | | | | 252 | |
| 270 | 7.46 | 7.43 | 34.109 | 26.656 | 142.0 | 0.510 | 1.28 | 19.0 | | | | | | | | | 272 | 205 |
| 300 ISL | 7.20 D | 7.17 | 34.120 D | 26.702 | 138.0 | 0.552 | 1.15 | D 17.0 | | | | | | | | | 302 | |
| 320 | 6.99 | 6.96 | 34.129 | 26.738 | 134.8 | 0.579 | 1.03 | D 15.1 | | | | | | | | | 322 | 204 |
| 379 | 6.54 | 6.51 | 34.153 | 26.818 | 127.8 | 0.657 | 0.81 | 11.8 | | | | | | | | | 382 | 203 |
| 400 ISL | 6.36 D | 6.32 | 34.152 D | 26.841 | 125.7 | 0.683 | 0.76 | D 11.0 | | | | | | | | | 403 | |
| 442 | 6.03 | 5.99 | 34.159 | 26.889 | 121.5 | 0.735 | 0.69 | D 9.9 | | | | | | | | | 445 | 202 |
| 500 ISL | 5.94 D | 5.90 | 34.235 D | 26.961 | 115.4 | 0.804 | 0.42 | D 6.0 | | | | | | | | | 504 | |
| 516 | 5.82 | 5.78 | 34.251 | 26.989 | 112.9 | 0.822 | 0.38 | 5.4 | | | | | | | | | 520 | 201 |

A) FIRST FLUOROMETER READING NOT RECORDED, 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 60.0 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 | 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 | 12.58 | 12.58 | 32.752 | 24.734 | 320.1 | 0.000 | 6.24 | 102.9 | | | | | | | 0.60 | 0.17 | 0 | |
| 3 | 12.58 | 12.58 | 32.752 | 24.734 | 320.2 | 0.010 | 6.24 | 102.9 | | | | | | | 0.60 | 0.17 | 3 | 222 |
| 5 | 12.58 | 12.58 | 32.752 | 24.734 | 320.2 | 0.016 | | | | | | | | | 0.59 | 0.17 | 5 | 221 |
| 10 | 12.44 | 12.44 | 32.751 | 24.760 | 317.8 | 0.032 | 6.27 | 103.1 | | | | | | | 0.77 | 0.25 | 10 | 220 |
| 20 | 12.41 | 12.41 | 32.753 | 24.768 | 317.4 | 0.064 | 6.26 | 102.9 | | | | | | | 0.94 | 0.30 | 20 | 219 |
| 30 | 12.41 | 12.41 | 32.758 | 24.772 | 317.2 | 0.095 | 6.25 | D 102.7 | | | | | | | 1.07 | 0.29 | 30 | 218 |
| 40 | 12.36 | 12.35 | 32.772 | 24.793 | 315.5 | 0.127 | 6.13 | D 100.6 | | | | | | | 0.87 | 0.30 | 40 | 217 |
| 50 | 11.62 | 11.61 | 32.970 | 25.085 | 287.9 | 0.157 | 5.70 | 92.2 | | | | | | | 0.38 | 0.22 | 50 | 216 |
| 60 | 11.01 | 11.00 | 33.096 | 25.293 | 268.3 | 0.185 | 5.33 | D 85.2 | | | | | | | 0.19 | 0.14 | 60 | 215 |
| 75 ISL | 10.28 D | 10.27 | 33.261 D | 25.549 | 244.2 | 0.223 | 4.80 | D 75.6 | | | | | | | 0.13 | 0.13 | 75 | |
| 80 | 10.18 | 10.17 | 33.330 | 25.620 | 237.6 | 0.236 | 4.60 | 72.3 | | | | | | | 0.11 | 0.13 | 80 | 214 |
| 100 | 8.98 | 8.97 | 33.497 | 25.946 | 206.7 | 0.280 | 3.89 | 59.6 | | | | | | | 0.01 | 0.07 | 101 | 213 |
| 120 | 8.57 | 8.56 | 33.660 | 26.138 | 188.8 | 0.320 | 3.43 | 52.1 | | | | | | | 0.01 | 0.07 | 121 | 212 |
| 125 ISL | 8.42 D | 8.41 | 33.675 D | 26.173 | 185.6 | 0.329 | 3.50 | D 53.0 | | | | | | | 0.01 | 0.06 | 126 | |
| 150 | 7.96 | 7.95 | 33.824 | 26.359 | 168.3 | 0.373 | 3.27 | 49.1 | | | | | | | 0.00 | 0.04 | 151 | 211 |
| 170 | 7.87 | 7.85 | 33.909 | 26.439 | 161.0 | 0.406 | 2.77 | D 41.5 | | | | | | | 0.01 | 0.04 | 171 | 210 |
| 200 | 7.45 | 7.43 | 33.956 | 26.537 | 152.1 | 0.453 | 2.49 | 36.9 | | | | | | | 0.01 | 0.04 | 201 | 209 |
| 231 | 7.25 | 7.23 | 34.018 | 26.614 | 145.2 | 0.499 | 1.84 | D 27.2 | | | | | | | | | 232 | 208 |
| 250 ISL | 7.08 D | 7.06 | 34.022 D | 26.641 | 142.9 | 0.527 | 1.79 | D 26.3 | | | | | | | | | 252 | |
| 269 | 6.93 | 6.90 | 34.071 | 26.700 | 137.5 | 0.553 | 1.36 | 19.9 | | | | | | | | | 271 | 207 |
| 300 ISL | 6.35 D | 6.32 | 34.047 D | 26.758 | 132.1 | 0.595 | 1.30 | D 18.8 | | | | | | | | | 302 | |
| 320 | 6.24 | 6.21 | 34.053 | 26.778 | 130.5 | 0.621 | 1.22 | D 17.6 | | | | | | | | | 322 | 206 |
| 377 | 6.20 | 6.17 | 34.154 | 26.863 | 123.2 | 0.693 | 0.73 | 10.5 | | | | | | | | | 380 | 204 |
| 400 ISL | 6.11 D | 6.07 | 34.155 D | 26.876 | 122.3 | 0.722 | 0.69 | D 9.9 | | | | | | | | | 403 | |
| 440 | 5.49 | 5.45 | 34.138 | 26.939 | 116.2 | 0.769 | 0.69 | D 9.8 | | | | | | | | | 443 | 202 |
| 500 ISL | 5.22 D | 5.18 | 34.183 D | 27.007 | 110.3 | 0.837 | 0.49 | D 6.9 | | | | | | | | | 504 | |
| 514 | 5.15 | 5.11 | 34.182 | 27.014 | 109.6 | 0.853 | 0.45 | 6.3 | | | | | | | | | 518 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 60.0 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 | SVA | DYN HT | OXYGEN | OXY | S103 | 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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 12.96 | 12.96 | 32.728 | 24.642 | 328.9 | 0.000 | 6.12 | 101.7 | | | | | | 0.39 | 0.08 | 0 | |
| 3 | 12.96 | 12.96 | 32.728 | 24.642 | 329.0 | 0.010 | 6.12 | 101.7 | | | | | | 0.39 | 0.08 | 3 | 220 |
| 5 | 12.98 | 12.98 | 32.728 | 24.638 | 329.4 | 0.016 | | | | | | | | 0.35 | 0.09 | 5 | 219 |
| 10 | 12.86 | 12.86 | 32.725 | 24.659 | 327.5 | 0.033 | 6.13 | 101.7 | | | | | | 0.39 | 0.15 | 10 | 218 |
| 20 | 12.63 | 12.63 | 32.698 | 24.683 | 325.4 | 0.066 | 6.15 | 101.5 | | | | | | 0.46 | 0.13 | 20 | 217 |
| 30 | 12.48 | 12.48 | 32.673 | 24.693 | 324.8 | 0.098 | 6.16 | 101.3 | | | | | | 0.50 | 0.14 | 30 | 216 |
| 40 | 12.40 | 12.39 | 32.663 | 24.701 | 324.3 | 0.130 | 6.17 | 101.3 | | | | | | 0.52 | 0.13 | 40 | 215 |
| 50 | 12.34 | 12.33 | 32.655 | 24.706 | 324.0 | 0.163 | 6.18 | 101.3 | | | | | | 0.51 | 0.13 | 50 | 214 |
| 60 | 11.64 | 11.63 | 32.647 | 24.830 | 312.3 | 0.195 | 6.20 | D100.2 | | | | | | 0.30 | 0.13 | 60 | 213 |
| 75 ISL | 11.10 D | 11.09 | 32.733 D | 24.995 | 297.0 | 0.240 | 6.18 | D 98.7 | | | | | | 0.12 | 0.11 | 75 | |
| 80 | 11.01 | 11.00 | 32.804 | 25.066 | 290.3 | 0.255 | 5.89 | 94.0 | | | | | | 0.10 | 0.10 | 80 | 212 |
| 100 | 11.27 | 11.26 | 33.209 | 25.335 | 265.2 | 0.311 | 5.70 | 91.7 | | | | | | 0.20 | 0.29 | 100 | 211 |
| 119 | 9.65 | 9.64 | 33.430 | 25.787 | 222.4 | 0.357 | 4.05 | 63.0 | | | | | | 0.05 | 0.12 | 120 | 210 |
| 125 ISL | 9.60 D | 9.59 | 33.509 D | 25.857 | 215.9 | 0.370 | 3.90 | D 60.6 | | | | | | 0.04 | 0.12 | 126 | |
| 150 ISL | 9.26 D | 9.24 | 33.724 D | 26.080 | 195.1 | 0.421 | 3.03 | D 46.8 | | | | | | 0.01 | 0.11 | 151 | |
| 152 | 9.26 | 9.24 | 33.738 | 26.091 | 194.1 | 0.425 | 2.89 | 44.6 | | | | | | 0.01 | 0.11 | 153 | 209 |
| 170 | 8.74 | 8.72 | 33.805 | 26.226 | 181.5 | 0.459 | 2.93 | D 44.7 | | | | | | 0.01 | 0.09 | 171 | 208 |
| 200 | 8.62 | 8.60 | 33.957 | 26.365 | 169.0 | 0.512 | 2.24 | 34.1 | | | | | | 0.01 | 0.05 | 201 | 207 |
| 231 | 8.12 | 8.10 | 33.987 | 26.464 | 159.9 | 0.563 | 2.18 | D 32.8 | | | | | | | | 232 | 206 |
| 250 ISL | 7.75 D | 7.73 | 33.988 D | 26.520 | 154.8 | 0.593 | 2.25 | D 33.6 | | | | | | | | 251 | |
| 271 | 7.35 | 7.32 | 33.971 | 26.563 | 150.7 | 0.625 | 2.44 | 36.1 | | | | | | | | 273 | 205 |
| 300 ISL | 7.01 D | 6.98 | 33.984 D | 26.621 | 145.5 | 0.668 | 2.30 | D 33.8 | | | | | | | | 302 | |
| 321 | 6.78 | 6.75 | 33.989 | 26.656 | 142.3 | 0.698 | 2.14 | D 31.3 | | | | | | | | 323 | 204 |
| 380 | 6.58 | 6.55 | 34.091 | 26.764 | 132.9 | 0.779 | 1.06 | 15.4 | | | | | | | | 382 | 203 |
| 400 ISL | 6.36 D | 6.32 | 34.098 D | 26.799 | 129.8 | 0.805 | 1.01 | D 14.6 | | | | | | | | 403 | |
| 440 | 6.03 | 5.99 | 34.126 | 26.863 | 123.9 | 0.856 | 0.81 | D 11.6 | | | | | | | | 443 | 202 |
| 500 ISL | 5.67 D | 5.63 | 34.157 D | 26.933 | 117.8 | 0.929 | 0.61 | D 8.7 | | | | | | | | 504 | |
| 516 | 5.63 | 5.59 | 34.161 | 26.941 | 117.1 | 0.947 | 0.56 | 8.0 | | | | | | | | 520 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 63.3 52.0

| 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 | S103 | 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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 11.90 | 11.90 | 33.327 | 25.309 | 265.3 | 0.000 | 8.00 | 130.5 | | | | | | 13.75 | 2.71 | 0 | |
| 2 | 11.90 | 11.90 | 33.327 | 25.309 | 265.4 | 0.005 | 8.00 | 130.5 | | | | | | 13.75 | 2.71 | 2 | 209 |
| 5 | 11.90 | 11.90 | 33.327 | 25.309 | 265.5 | 0.013 | | | | | | | | 14.27 | 2.40 | 5 | 208 |
| 10 | 11.67 | 11.67 | 33.326 | 25.351 | 261.6 | 0.026 | 7.62 | 123.7 | | | | | | 14.69 | 2.07 | 10 | 207 |
| 20 | 11.47 | 11.47 | 33.337 | 25.397 | 257.5 | 0.052 | 6.34 | 102.5 | | | | | | 12.71 | 1.32 | 20 | 206 |
| 30 | 11.32 | 11.32 | 33.357 | 25.440 | 253.6 | 0.078 | 5.91 | 95.3 | | | | | | 11.38 | 0.64 | 30 | 205 |
| 39 | 11.07 | 11.07 | 33.387 | 25.508 | 247.3 | 0.101 | 5.27 | D 84.5 | | | | | | 7.78 | 1.44 | 39 | 204 |
| 50 | 10.43 | 10.42 | 33.517 | 25.722 | 227.2 | 0.127 | 3.98 | 63.0 | | | | | | 1.50 | 0.72 | 50 | 203 |
| 61 | 10.27 | 10.26 | 33.540 | 25.768 | 223.1 | 0.151 | 3.48 | D 54.9 | | | | | | 0.53 | 0.58 | 61 | 202 |
| 75 ISL | 10.04 D | 10.03 | 33.652 D | 25.895 | 211.4 | 0.182 | 3.15 | D 49.5 | | | | | | 0.32 | 0.63 | 75 | |
| 80 | 10.04 | 10.03 | 33.659 | 25.900 | 210.9 | 0.192 | 3.09 | 48.5 | | | | | | 0.24 | 0.65 | 80 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 63.3 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 | SVA | DYN HT | OXYGEN | OXY | S103 | 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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 11.89 | 11.89 | 33.294 | 25.285 | 267.6 | 0.000 | 5.96 | 97.2 | | | | | | 0.70 | 0.22 | 0 | |
| 2 | 11.89 | 11.89 | 33.294 | 25.285 | 267.7 | 0.005 | 5.96 | 97.2 | | | | | | 0.70 | 0.22 | 2 | 217 |
| 5 | 11.89 | 11.89 | 33.294 | 25.286 | 267.7 | 0.013 | | | | | | | | 0.64 | 0.17 | 5 | 216 |
| 10 | 11.83 | 11.83 | 33.301 | 25.302 | 266.3 | 0.027 | 5.94 | 96.8 | | | | | | 1.08 | 0.28 | 10 | 215 |
| 20 | 11.59 | 11.59 | 33.322 | 25.363 | 260.7 | 0.053 | 5.75 | D 93.2 | | | | | | 0.44 | 0.17 | 20 | 214 |
| 30 | 10.81 | 10.81 | 33.393 | 25.559 | 242.3 | 0.078 | 4.67 | 74.5 | | | | | | 0.30 | 0.13 | 30 | 213 |
| 40 | 10.34 | 10.34 | 33.391 | 25.639 | 234.9 | 0.102 | 4.44 | D 70.1 | | | | | | 0.30 | 0.25 | 40 | 212 |
| 50 | 10.23 | 10.22 | 33.425 | 25.685 | 230.7 | 0.125 | 4.21 | 66.3 | | | | | | 0.28 | 0.22 | 50 | 211 |
| 60 | 9.79 | 9.78 | 33.448 | 25.777 | 222.2 | 0.148 | 3.86 | D 60.2 | | | | | | 0.18 | 0.24 | 60 | 210 |
| 75 ISL | 9.67 D | 9.66 | 33.610 D | 25.923 | 208.6 | 0.180 | 3.40 | D 52.9 | | | | | | 0.10 | 0.24 | 75 | |
| 81 | 9.38 | 9.37 | 33.716 | 26.054 | 196.3 | 0.192 | 3.01 | 46.6 | | | | | | 0.08 | 0.24 | 81 | 209 |
| 100 ISL | 9.14 D | 9.13 | 33.876 D | 26.218 | 181.0 | 0.228 | 2.45 | D 37.8 | | | | | | 0.08 | 0.17 | 101 | |
| 101 | 9.14 | 9.13 | 33.878 | 26.219 | 180.9 | 0.230 | 2.41 | 37.1 | | | | | | 0.08 | 0.17 | 102 | 208 |
| 120 | 9.06 | 9.05 | 33.907 | 26.255 | 177.9 | 0.264 | 2.35 | 36.2 | | | | | | 0.04 | 0.15 | 121 | 207 |
| 125 ISL | 8.89 D | 8.88 | 33.948 D | 26.314 | 172.4 | 0.273 | 2.31 | D 35.4 | | | | | | 0.03 | 0.14 | 126 | |
| 150 | 8.65 | 8.63 | 34.000 | 26.393 | 165.3 | 0.315 | 2.06 | 31.4 | | | | | | 0.02 | 0.11 | 151 | 206 |
| 171 | 8.51 | 8.49 | 34.014 | 26.426 | 162.6 | 0.350 | 2.07 | D 31.5 | | | | | | 0.01 | 0.14 | 172 | 205 |
| 200 | 8.25 | 8.23 | 34.036 | 26.483 | 157.6 | 0.396 | 1.95 | 29.5 | | | | | | 0.01 | 0.07 | 201 | 204 |
| 231 | 8.26 | 8.24 | 34.061 | 26.501 | 156.4 | 0.445 | 1.79 | D 27.1 | | | | | | | | 232 | 203 |
| 250 ISL | 8.01 D | 7.98 | 34.108 D | 26.576 | 149.6 | 0.474 | 1.44 | D 21.7 | | | | | </td | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 63.3 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 | 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 | |
| 37 | 2.7 N | 123 11.7 W | 04/02/11 | 0857 UTC | 2545 m | 250 | 09 kn | | | | | | | | | | | |
| 0 | ISL | 11.83 | 11.83 | 33.272 | 25.280 | 268.2 | 0.000 | 6.16 | 100.3 | | | | | | 0.73 | 0.17 | 0 | |
| 3 | | 11.83 | 11.83 | 33.272 | 25.280 | 268.2 | 0.008 | 6.16 | 100.3 | | | | | | 0.73 | 0.17 | 3 | 220 |
| 5 | | 11.83 | 11.83 | 33.273 | 25.280 | 268.2 | 0.013 | | | | | | | | 0.69 | 0.17 | 5 | 219 |
| 10 | | 11.84 | 11.84 | 33.273 | 25.279 | 268.5 | 0.027 | 6.16 | 100.4 | | | | | | 0.69 | 0.19 | 10 | 218 |
| 19 | | 11.85 | 11.85 | 33.283 | 25.285 | 268.1 | 0.051 | 6.12 | 99.7 | | | | | | 0.79 | 0.06 | 19 | 217 |
| 20 | ISL | 11.85 | 11.85 | 33.282 | D 25.284 | 268.2 | 0.054 | 6.14 | D 100.1 | | | | | | 0.78 | 0.07 | 20 | |
| 30 | | 11.76 | 11.76 | 33.305 | 25.319 | 265.2 | 0.080 | 6.02 | D 97.9 | | | | | | 0.63 | 0.24 | 30 | 216 |
| 40 | | 11.33 | 11.33 | 33.407 | 25.477 | 250.3 | 0.106 | 4.99 | D 80.5 | | | | | | 0.53 | 0.31 | 40 | 215 |
| 50 | ISL | 10.89 | 10.88 | 33.457 | D 25.595 | 239.3 | 0.131 | 4.51 | D 72.1 | | | | | | 0.41 | 0.33 | 50 | |
| 51 | | 10.90 | 10.89 | 33.456 | 25.593 | 239.6 | 0.133 | 4.45 | 71.1 | | | | | | 0.39 | 0.33 | 51 | 214 |
| 60 | | 10.19 | 10.18 | 33.528 | 25.772 | 222.7 | 0.154 | 3.87 | D 60.9 | | | | | | 0.21 | 0.34 | 60 | 213 |
| 75 | ISL | 9.71 | 9.70 | 33.666 | D 25.961 | 205.0 | 0.186 | 3.23 | D 50.4 | | | | | | 0.08 | 0.24 | 75 | |
| 79 | | 9.58 | 9.57 | 33.694 | 26.004 | 201.0 | 0.194 | 3.09 | 48.0 | | | | | | 0.07 | 0.21 | 79 | 212 |
| 100 | | 9.17 | 9.16 | 33.857 | 26.198 | 182.9 | 0.234 | 2.55 | 39.3 | | | | | | 0.04 | 0.16 | 101 | 211 |
| 120 | | 8.99 | 8.98 | 33.931 | 26.285 | 175.0 | 0.270 | 2.37 | 36.4 | | | | | | 0.03 | 0.14 | 121 | 210 |
| 125 | ISL | 8.98 | D 8.97 | 33.951 | D 26.302 | 173.5 | 0.279 | 2.25 | D 34.6 | | | | | | 0.03 | 0.14 | 126 | |
| 150 | | 8.82 | 8.80 | 34.011 | 26.375 | 167.1 | 0.321 | 1.98 | 30.3 | | | | | | 0.02 | 0.12 | 151 | 209 |
| 170 | | 8.67 | 8.65 | 34.050 | 26.429 | 162.3 | 0.354 | 1.77 | D 27.0 | | | | | | 0.05 | 0.12 | 171 | 208 |
| 200 | ISL | 8.39 | D 8.37 | 34.084 | D 26.499 | 156.1 | 0.402 | 1.60 | D 24.3 | | | | | | 0.11 | 0.12 | 201 | |
| 201 | | 8.39 | 8.37 | 34.085 | 26.500 | 156.0 | 0.404 | 1.56 | 23.7 | | | | | | 0.11 | 0.12 | 202 | 207 |
| 229 | | 8.14 | 8.12 | 34.107 | 26.555 | 151.2 | 0.447 | 1.46 | D 22.0 | | | | | | | | 230 | 206 |
| 250 | ISL | 7.87 | D 7.84 | 34.127 | D 26.611 | 146.2 | 0.478 | 1.30 | D 19.5 | | | | | | | | 252 | |
| 270 | | 7.65 | 7.62 | 34.143 | 26.656 | 142.2 | 0.507 | 1.12 | 16.7 | | | | | | | | 272 | 205 |
| 300 | ISL | 7.34 | D 7.31 | 34.157 | D 26.712 | 137.2 | 0.549 | 0.99 | D 14.7 | | | | | | | | 302 | |
| 323 | | 7.22 | 7.19 | 34.168 | 26.737 | 135.1 | 0.580 | 0.89 | D 13.1 | | | | | | | | 325 | 204 |
| 379 | | 6.64 | 6.61 | 34.188 | 26.833 | 126.5 | 0.653 | 0.67 | 9.8 | | | | | | | | 382 | 203 |
| 400 | ISL | 6.51 | D 6.47 | 34.208 | D 26.866 | 123.6 | 0.679 | 0.60 | D 8.7 | | | | | | | | 403 | |
| 439 | | 6.24 | 6.20 | 34.224 | 26.914 | 119.4 | 0.727 | 0.51 | D 7.4 | | | | | | | | 442 | 202 |
| 500 | ISL | 5.92 | D 5.88 | 34.245 | D 26.972 | 114.4 | 0.798 | 0.42 | D 6.0 | | | | | | | | 504 | |
| 514 | | 5.84 | 5.80 | 34.254 | 26.989 | 112.9 | 0.814 | 0.37 | 5.3 | | | | | | | | 518 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 63.3 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 | 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 | |
| 36 | 42.9 N | 123 54.7 W | 04/02/11 | 1457 UTC | 3882 m | 280 | 13 kn | 340 | 03 05 | 1 | 1028.2 mb | 12.5 | C | 11.1 | C | 12m | 3/8 | CU |
| 0 | ISL | 13.39 | 13.39 | 32.891 | 24.682 | 325.0 | 0.000 | 6.07 | 101.9 | | | | | | 0.63 | 0.18 | 0 | |
| 2 | | 13.39 | 13.39 | 32.891 | 24.683 | 325.1 | 0.007 | 6.07 | 101.9 | | | | | | 0.63 | 0.18 | 2 | 220 |
| 6 | | 13.39 | 13.39 | 32.891 | 24.683 | 325.1 | 0.020 | | | | | | | | 0.65 | 0.18 | 6 | 219 |
| 9 | | 13.40 | 13.40 | 32.891 | 24.681 | 325.4 | 0.029 | 6.07 | 101.9 | | | | | | 0.62 | 0.20 | 9 | 218 |
| 10 | ISL | 13.40 | D 13.40 | 32.889 | D 24.679 | 325.6 | 0.033 | 6.03 | D 101.3 | | | | | | 0.62 | 0.20 | 10 | |
| 20 | | 13.40 | 13.40 | 32.891 | 24.681 | 325.7 | 0.065 | 6.07 | 101.9 | | | | | | 0.64 | 0.19 | 20 | 217 |
| 29 | | 13.40 | 13.40 | 32.891 | 24.681 | 325.9 | 0.094 | 6.04 | D 101.4 | | | | | | 0.60 | 0.19 | 29 | 216 |
| 30 | ISL | 13.40 | D 13.40 | 32.889 | D 24.680 | 326.1 | 0.098 | 6.05 | D 101.6 | | | | | | 0.59 | 0.19 | 30 | |
| 40 | | 13.11 | 13.10 | 32.847 | 24.705 | 323.9 | 0.130 | 6.02 | D 100.5 | | | | | | 0.45 | 0.20 | 40 | 215 |
| 50 | ISL | 12.76 | D 12.75 | 32.990 | D 24.885 | 307.0 | 0.162 | 5.80 | D 96.2 | | | | | | 0.33 | 0.19 | 50 | |
| 51 | | 12.79 | 12.78 | 33.070 | 24.941 | 301.7 | 0.165 | 5.51 | 91.5 | | | | | | 0.32 | 0.19 | 51 | 214 |
| 59 | | 12.20 | 12.19 | 33.260 | 25.202 | 277.0 | 0.188 | 4.81 | D 78.9 | | | | | | 0.17 | 0.15 | 59 | 213 |
| 75 | ISL | 10.45 | D 10.44 | 33.390 | D 25.620 | 237.4 | 0.229 | 4.21 | D 66.6 | | | | | | 0.08 | 0.09 | 75 | |
| 85 | | 10.06 | 10.05 | 33.404 | 25.698 | 230.2 | 0.252 | 4.14 | 64.9 | | | | | | 0.03 | 0.06 | 85 | 212 |
| 99 | | 9.46 | 9.45 | 33.552 | 25.913 | 210.0 | 0.283 | 3.68 | 57.0 | | | | | | 0.01 | 0.04 | 100 | 211 |
| 100 | ISL | 9.42 | D 9.41 | 33.579 | D 25.940 | 207.4 | 0.285 | 3.61 | D 55.9 | | | | | | 0.01 | 0.04 | 101 | |
| 119 | | 9.15 | 9.14 | 33.729 | 26.101 | 192.5 | 0.323 | 3.13 | 48.2 | | | | | | 0.01 | 0.04 | 120 | 210 |
| 125 | ISL | 8.95 | D 8.94 | 33.785 | D 26.177 | 185.4 | 0.335 | 3.06 | D 46.9 | | | | | | 0.01 | 0.04 | 126 | |
| 150 | | 8.58 | 8.56 | 33.898 | 26.323 | 171.9 | 0.379 | 2.79 | 42.5 | | | | | | 0.00 | 0.03 | 151 | 209 |
| 170 | | 8.38 | 8.36 | 33.972 | 26.412 | 163.7 | 0.413 | 2.38 | D 36.1 | | | | | | 0.01 | 0.04 | 171 | 208 |
| 197 | | 8.14 | 8.12 | 33.993 | 26.465 | 159.1 | 0.456 | 2.41 | 36.3 | | | | | | 0.02 | 0.03 | 198 | 207 |
| 200 | ISL | 8.09 | D 8.07 | 33.990 | D 26.471 | 158.7 | 0.461 | 2.50 | D 37.6 | | | | | | | | 201 | |
| 230 | | 7.64 | 7.62 | 34.012 | 26.554 | 151.1 | 0.508 | 2.34 | D 34.9 | | | | | | | | 231 | 206 |
| 250 | ISL | 7.40 | D 7.38 | 34.036 | D 26.607 | 146.3 | 0.537 | 1.88 | D 27.9 | | | | | | | | 252 | |
| 275 | | 6.99 | 6.96 | 34.037 | 26.665 | 140.9 | 0.573 | 1.77 | 26.0 | | | | | | | | 277 | 205 |
| 300 | ISL | 6.80 | D 6.77 | 34.054 | D 26.705 | 137.5 | 0.608 | 1.51 | D 22.1 | | | | | | | | 302 | |
| 319 | | 6.65 | 6.62 | 34.070 | 26.738 | 134.6 | 0.634 | 1.34 | D 19.5 | | | | | | | | 321 | 204 |
| 379 | | 6.59 | 6.56 | 34.171 | 26.826 | 127.1 | 0.712 | 0.76 | 11.1 | | | | | | | | 382 | 203 |
| 400 | ISL | 6.54 | D 6.50 | 34.197 | D 26.853 | 124.8 | 0.739 | 0.65 | D 9.5 | | | | | | | | 403 | |
| 438 | | 6.27 | 6.23 | 34.214 | 26.902 | 120.5 | 0.786 | 0.56 | D 8.1 | | | | | | | | 441 | 202 |
| 500 | ISL | 5.88 | D 5.84 | 34.246 | D 26.978 | 113.8 | 0.85 | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 63.3 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 | 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 | | |
| 36 | 22.4 N | 124 38.1 W | 04/02/11 | 2134 | UTC | 4165 m | 280 | 26 kn | 340 06 05 | 1 | 1027.5 mb | 13.5 C | 12.5 C | 14m | 4/8 | CU | | |
| 0 | ISL | 13.50 D | 13.50 | 32.760 D | 24.559 | 336.8 | 0.000 | 6.09 | D 102.4 | | | | | 0.43 | 0.13 | 0 | | |
| 3 | | 13.50 | 13.50 | 32.813 | 24.600 | 332.9 | 0.010 | 6.09 | 102.4 | | | | | 0.43 | 0.13 | 3 | 220 | |
| 5 | | 13.50 | 13.50 | 32.813 | 24.600 | 333.0 | 0.017 | 6.10 | D 102.6 | | | | | 0.42 | 0.12 | 5 | 219 | |
| 10 | | 13.50 | 13.50 | 32.813 | 24.600 | 333.1 | 0.033 | 6.09 | 102.4 | | | | | 0.48 | 0.14 | 10 | 218 | |
| 20 | | 12.81 | 12.81 | 32.775 | 24.708 | 323.1 | 0.066 | 6.23 | 103.3 | | | | | 0.57 | 0.15 | 20 | 217 | |
| 30 | | 12.34 | 12.34 | 32.753 | 24.782 | 316.3 | 0.098 | 6.26 | D 102.7 | | | | | 0.62 | 0.20 | 30 | 216 | |
| 40 | | 11.92 | 11.91 | 32.910 | 24.983 | 297.4 | 0.129 | 6.09 | D 99.1 | | | | | 0.75 | 0.33 | 40 | 215 | |
| 50 | | 11.37 | 11.36 | 33.009 | 25.161 | 280.7 | 0.158 | 5.77 | 92.9 | | | | | 0.40 | 0.23 | 50 | 214 | |
| 61 | | 10.33 | 10.32 | 33.103 | 25.417 | 256.4 | 0.187 | 5.21 | D 82.0 | | | | | 0.09 | 0.07 | 61 | 213 | |
| 75 | ISL | 9.93 D | 9.92 | 33.381 D | 25.701 | 229.7 | 0.221 | 4.20 | D 65.7 | | | | | 0.05 | 0.07 | 75 | | |
| 80 | | 9.76 | 9.75 | 33.469 | 25.798 | 220.5 | 0.233 | 3.94 | 61.4 | | | | | 0.03 | 0.07 | 80 | 212 | |
| 100 | | 9.32 | 9.31 | 33.607 | 25.978 | 203.8 | 0.275 | 3.39 | 52.4 | | | | | 0.01 | 0.07 | 101 | 211 | |
| 120 | | 8.77 | 8.76 | 33.688 | 26.129 | 189.7 | 0.314 | 3.29 | 50.2 | | | | | 0.00 | 0.06 | 121 | 210 | |
| 125 | ISL | 8.52 D | 8.51 | 33.735 D | 26.205 | 182.6 | 0.324 | 3.23 | D 49.0 | | | | | 0.00 | 0.06 | 126 | | |
| 150 | | 8.15 | 8.13 | 33.845 | 26.347 | 169.5 | 0.368 | 3.08 | 46.4 | | | | | 0.00 | 0.05 | 151 | 209 | |
| 171 | | 7.78 | 7.76 | 33.891 | 26.438 | 161.1 | 0.402 | 2.94 | D 43.9 | | | | | 0.01 | 0.04 | 172 | 208 | |
| 200 | | 7.23 | 7.21 | 33.910 | 26.531 | 152.5 | 0.448 | 3.03 | 44.7 | | | | | 0.01 | 0.03 | 201 | 207 | |
| 232 | | 6.72 | 6.70 | 33.935 | 26.621 | 144.3 | 0.495 | 2.61 | D 38.1 | | | | | | | 233 | 206 | |
| 250 | ISL | 6.82 D | 6.80 | 34.000 D | 26.659 | 141.0 | 0.521 | 1.93 | D 28.2 | | | | | | | 252 | | |
| 270 | | 6.64 | 6.62 | 34.012 | 26.693 | 138.1 | 0.549 | 1.72 | 25.0 | | | | | | | 272 | 205 | |
| 300 | ISL | 6.41 D | 6.38 | 34.042 D | 26.747 | 133.2 | 0.590 | 1.30 | D 18.8 | | | | | | | 302 | | |
| 320 | | 6.28 | 6.25 | 34.054 | 26.773 | 130.9 | 0.616 | 1.18 | D 17.0 | | | | | | | 322 | 204 | |
| 378 | | 5.83 | 5.80 | 34.086 | 26.856 | 123.6 | 0.690 | 0.91 | 13.0 | | | | | | | 381 | 203 | |
| 400 | ISL | 5.66 D | 5.63 | 34.095 D | 26.884 | 121.0 | 0.717 | 0.84 | D 12.0 | | | | | | | 403 | | |
| 440 | | 5.61 | 5.57 | 34.150 | 26.934 | 116.8 | 0.764 | 0.58 | D 8.2 | | | | | | | 443 | 202 | |
| 500 | ISL | 5.06 D | 5.02 | 34.151 D | 27.000 | 110.7 | 0.833 | 0.52 | D 7.3 | | | | | | | 504 | | |
| 519 | | 4.95 | 4.91 | 34.158 | 27.018 | 109.1 | 0.853 | 0.52 | 7.3 | | | | | | | 523 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 36 | 47.1 N | 122 3.4 W | 01/02/11 | 0215 | UTC | 254 m | 260 | 14 kn | | | | | | | | | | |
| 0 | ISL | 12.52 | 12.52 | 33.187 | 25.083 | 286.9 | 0.000 | 6.16 | 101.8 | | | | | 0.76 | 0.28 | 0 | | |
| 2 | | 12.52 | 12.52 | 33.187 | 25.083 | 286.9 | 0.006 | 6.16 | 101.8 | | | | | 0.76 | 0.28 | 2 | 214 | |
| 5 | | 12.52 | 12.52 | 33.187 | 25.083 | 287.0 | 0.014 | | | | | | | 0.88 | 0.39 | 5 | 213 | |
| 10 | | 12.51 | 12.51 | 33.188 | 25.086 | 286.9 | 0.029 | 6.16 | 101.7 | | | | | 0.98 | 0.35 | 10 | 212 | |
| 20 | | 12.52 | 12.52 | 33.187 | 25.083 | 287.4 | 0.057 | 6.16 | 101.8 | | | | | 1.00 | 0.31 | 20 | 211 | |
| 30 | | 11.74 | 11.74 | 33.261 | 25.288 | 268.1 | 0.085 | 5.30 | D 86.1 | | | | | 0.94 | 0.45 | 30 | 210 | |
| 40 | | 10.94 | 10.94 | 33.393 | 25.536 | 244.7 | 0.111 | 4.82 | D 77.1 | | | | | 0.51 | 0.38 | 40 | 209 | |
| 50 | | 10.75 | 10.74 | 33.436 | 25.603 | 238.5 | 0.135 | 4.60 | 73.3 | | | | | 0.34 | 0.34 | 50 | 208 | |
| 59 | | 10.54 | 10.53 | 33.480 | 25.675 | 231.9 | 0.156 | 4.25 | D 67.4 | | | | | 0.25 | 0.30 | 59 | 207 | |
| 75 | ISL | 10.14 D | 10.13 | 33.617 D | 25.850 | 215.6 | 0.192 | 3.38 | D 53.2 | | | | | 0.13 | 0.23 | 75 | | |
| 80 | | 10.05 | 10.04 | 33.656 | 25.896 | 211.3 | 0.203 | 3.14 | 49.3 | | | | | 0.10 | 0.22 | 80 | 206 | |
| 100 | | 9.74 | 9.73 | 33.709 | 25.990 | 202.8 | 0.244 | 2.99 | 46.7 | | | | | 0.06 | 0.22 | 101 | 205 | |
| 120 | | 9.55 | 9.54 | 33.761 | 26.062 | 196.3 | 0.284 | 2.85 | D 44.3 | | | | | 0.06 | 0.19 | 121 | 204 | |
| 125 | ISL | 9.48 D | 9.47 | 33.796 D | 26.101 | 192.7 | 0.294 | 2.75 | D 42.7 | | | | | 0.05 | 0.18 | 126 | | |
| 149 | | 9.06 | 9.04 | 33.911 | 26.259 | 178.1 | 0.338 | 2.31 | 35.5 | | | | | 0.03 | 0.16 | 150 | 203 | |
| 150 | ISL | 8.95 D | 8.93 | 33.938 D | 26.297 | 174.5 | 0.340 | 2.29 | D 35.2 | | | | | 0.03 | 0.16 | 151 | | |
| 170 | | 8.72 | 8.70 | 33.993 | 26.377 | 167.3 | 0.374 | 2.20 | D 33.6 | | | | | 0.03 | 0.13 | 171 | 202 | |
| 200 | ISL | 8.55 D | 8.53 | 34.022 D | 26.426 | 163.1 | 0.424 | 2.07 | D 31.5 | | | | | 0.02 | 0.12 | 201 | | |
| 202 | | 8.55 | 8.53 | 34.025 | 26.429 | 162.9 | 0.427 | 2.00 | 30.4 | | | | | 0.02 | 0.12 | 203 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.21 | 12.21 | 33.191 | 25.145 | 280.9 | 0.000 | 6.12 | 100.4 | | | | | | 0.77 | 0.31 | 0 | |
| 3 | 12.21 | 12.21 | 33.191 | 25.145 | 281.0 | 0.008 | 6.12 | 100.4 | | | | | | 0.77 | 0.31 | 3 | 220 |
| 5 | 12.21 | 12.21 | 33.192 | 25.146 | 281.0 | 0.014 | | | | | | | | 0.73 | 0.35 | 5 | 219 |
| 10 | 12.21 | 12.21 | 33.192 | 25.146 | 281.1 | 0.028 | 6.13 | 100.6 | | | | | | 0.74 | 0.30 | 10 | 218 |
| 20 | 12.21 | 12.21 | 33.191 | 25.146 | 281.4 | 0.056 | 6.16 | 101.1 | | | | | | 0.79 | 0.41 | 20 | 217 |
| 30 | 12.25 | 12.25 | 33.208 | 25.152 | 281.1 | 0.084 | 6.09 | 100.0 | | | | | | 0.61 | 0.29 | 30 | 216 |
| 40 | 12.21 | 12.20 | 33.222 | 25.170 | 279.6 | 0.112 | 5.95 | 97.7 | | | | | | 0.53 | 0.33 | 40 | 215 |
| 50 ISL | 11.52 D | 11.51 | 33.304 D | 25.363 | 261.5 | 0.139 | 5.25 D | 85.0 | | | | | | 0.36 | 0.30 | 50 | |
| 60 | 11.25 | 11.24 | 33.350 | 25.448 | 253.6 | 0.165 | 4.82 D | 77.6 | | | | | | 0.19 | 0.27 | 60 | 214 |
| 75 ISL | 10.56 D | 10.55 | 33.474 D | 25.667 | 233.1 | 0.202 | 4.37 D | 69.3 | | | | | | 0.16 | 0.31 | 75 | |
| 80 | 10.45 | 10.44 | 33.484 | 25.694 | 230.6 | 0.213 | 4.17 | 66.0 | | | | | | 0.15 | 0.32 | 80 | 213 |
| 100 | 9.75 | 9.74 | 33.641 | 25.935 | 208.0 | 0.257 | 3.17 | 49.5 | | | | | | 0.05 | 0.28 | 101 | 212 |
| 125 ISL | 9.25 D | 9.24 | 33.824 D | 26.160 | 187.1 | 0.307 | 2.67 D | 41.2 | | | | | | 0.03 | 0.23 | 126 | |
| 150 ISL | 8.99 D | 8.97 | 33.915 D | 26.273 | 176.8 | 0.352 | 2.31 D | 35.5 | | | | | | 0.01 | 0.17 | 151 | |
| 151 | 8.99 | 8.97 | 33.920 | 26.277 | 176.4 | 0.354 | 2.30 D | 35.3 | | | | | | 0.01 | 0.17 | 152 | 211 |
| 200 | 8.20 | 8.18 | 33.991 | 26.455 | 160.2 | 0.436 | 2.33 | 35.2 | | | | | | 0.01 | 0.09 | 201 | 210 |
| 230 | 7.92 | 7.90 | 34.041 | 26.536 | 152.9 | 0.483 | 1.95 | 29.3 | | | | | | | | | 231 209 |
| 250 ISL | 7.66 D | 7.64 | 34.047 D | 26.579 | 149.1 | 0.513 | 1.86 D | 27.7 | | | | | | | | | 252 |
| 300 | 7.25 | 7.22 | 34.073 | 26.658 | 142.2 | 0.586 | 1.57 D | 23.2 | | | | | | | | | 302 208 |
| 400 ISL | 6.73 D | 6.69 | 34.157 D | 26.797 | 130.3 | 0.723 | 0.89 D | 13.0 | | | | | | | | | 403 |
| 401 | 6.72 | 6.68 | 34.153 | 26.795 | 130.5 | 0.724 | 0.87 | 12.7 | | | | | | | | | 404 207 |
| 500 ISL | 6.25 D | 6.21 | 34.232 D | 26.920 | 119.7 | 0.848 | 0.49 D | 7.1 | | | | | | | | | 504 |
| 501 | 6.26 | 6.22 | 34.233 | 26.919 | 119.8 | 0.849 | 0.49 D | 7.1 | | | | | | | | | 505 206 |
| 600 ISL | 5.40 D | 5.35 | 34.310 D | 27.087 | 104.2 | 0.960 | 0.28 D | 4.0 | | | | | | | | | 605 |
| 601 | 5.39 | 5.34 | 34.311 | 27.089 | 104.0 | 0.961 | 0.26 | 3.7 | | | | | | | | | 606 205 |
| 700 ISL | 4.79 D | 4.73 | 34.365 D | 27.202 | 93.6 | 1.059 | 0.24 D | 3.3 | | | | | | | | | 705 |
| 701 | 4.79 | 4.73 | 34.367 | 27.204 | 93.5 | 1.060 | 0.24 D | 3.3 | | | | | | | | | 707 204 |
| 800 ISL | 4.51 D | 4.45 | 34.397 D | 27.259 | 88.9 | 1.150 | 0.28 D | 3.9 | | | | | | | | | 807 |
| 803 | 4.50 | 4.44 | 34.399 | 27.262 | 88.6 | 1.152 | 0.26 | 3.6 | | | | | | | | | 810 203 |
| 900 | 4.29 | 4.22 | 34.422 | 27.303 | 85.3 | 1.237 | 0.32 D | 4.4 | | | | | | | | | 908 202 |
| 1000 ISL | 4.01 D | 3.93 | 34.450 D | 27.356 | 80.7 | 1.320 | 0.41 D | 5.6 | | | | | | | | | 1009 |
| 1030 | 3.94 | 3.86 | 34.461 | 27.372 | 79.4 | 1.344 | 0.41 | 5.6 | | | | | | | | | 1039 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.51 | 12.51 | 33.187 | 25.085 | 286.7 | 0.000 | 6.11 | 100.9 | | | | | | 0.94 | 0.24 | 0 | |
| 3 | 12.51 | 12.51 | 33.187 | 25.085 | 286.8 | 0.009 | 6.11 | 100.9 | | | | | | 0.94 | 0.24 | 3 | 220 |
| 5 | 12.51 | 12.51 | 33.187 | 25.085 | 286.8 | 0.014 | | | | | | | | 0.92 | 0.36 | 5 | 219 |
| 9 | 12.51 | 12.51 | 33.187 | 25.085 | 286.9 | 0.026 | 6.14 | 101.4 | | | | | | 0.85 | 0.34 | 9 | 218 |
| 10 ISL | 12.52 D | 12.52 | 33.185 D | 25.082 | 287.3 | 0.029 | 6.17 D | 101.9 | | | | | | 0.85 | 0.34 | 10 | |
| 19 | 12.52 | 12.52 | 33.187 | 25.083 | 287.3 | 0.055 | 6.13 | 101.3 | | | | | | 0.90 | 0.34 | 19 | 217 |
| 20 ISL | 12.52 D | 12.52 | 33.184 D | 25.081 | 287.6 | 0.057 | 6.17 D | 101.9 | | | | | | 0.89 | 0.34 | 20 | |
| 30 | 12.48 | 12.48 | 33.190 | 25.094 | 286.6 | 0.086 | 6.06 D | 100.0 | | | | | | 0.81 | 0.33 | 30 | 216 |
| 40 | 11.61 | 11.60 | 33.273 | 25.322 | 265.1 | 0.114 | 5.27 | 85.4 | | | | | | 0.35 | 0.29 | 40 | 215 |
| 50 ISL | 10.86 D | 10.85 | 33.350 D | 25.517 | 246.7 | 0.139 | 4.87 D | 77.7 | | | | | | 0.23 | 0.30 | 50 | |
| 60 | 10.70 | 10.69 | 33.384 | 25.572 | 241.7 | 0.164 | 4.34 D | 69.0 | | | | | | 0.12 | 0.30 | 60 | 214 |
| 75 ISL | 9.83 D | 9.82 | 33.564 D | 25.861 | 214.5 | 0.198 | 3.50 D | 54.7 | | | | | | 0.05 | 0.22 | 75 | |
| 80 | 9.78 | 9.77 | 33.582 | 25.883 | 212.5 | 0.209 | 3.53 | 55.1 | | | | | | 0.04 | 0.19 | 80 | 213 |
| 100 ISL | 9.38 D | 9.37 | 33.795 D | 26.116 | 190.8 | 0.249 | 2.65 D | 41.0 | | | | | | 0.01 | 0.19 | 101 | |
| 102 | 9.40 | 9.39 | 33.797 | 26.114 | 191.0 | 0.253 | 2.67 | 41.4 | | | | | | 0.01 | 0.19 | 103 | 212 |
| 125 ISL | 9.14 D | 9.13 | 33.949 D | 26.275 | 176.1 | 0.295 | 2.18 D | 33.6 | | | | | | 0.01 | 0.16 | 126 | |
| 149 | 8.64 | 8.62 | 33.970 | 26.371 | 167.4 | 0.336 | 2.32 D | 35.4 | | | | | | 0.01 | 0.12 | 150 | 211 |
| 150 ISL | 8.61 D | 8.59 | 33.972 D | 26.377 | 166.8 | 0.338 | 2.32 D | 35.4 | | | | | | 0.01 | 0.12 | 151 | |
| 200 | 8.22 | 8.20 | 34.059 | 26.505 | 155.4 | 0.418 | 1.94 | 29.3 | | | | | | 0.01 | 0.09 | 201 | 210 |
| 232 | 8.01 | 7.99 | 34.105 | 26.573 | 149.5 | 0.467 | 1.45 | 21.8 | | | | | | | | | 233 209 |
| 250 ISL | 7.81 D | 7.79 | 34.127 D | 26.620 | 145.3 | 0.494 | 1.34 D | 20.1 | | | | | | | | | 252 |
| 300 ISL | 7.32 D | 7.29 | 34.154 D | 26.712 | 137.2 | 0.564 | 1.04 D | 15.4 | | | | | | | | | 302 |
| 301 | 7.34 | 7.31 | 34.155 | 26.710 | 137.4 | 0.566 | 1.03 D | 15.3 | | | | | | | | | 303 208 |
| 400 | 6.64 | 6.60 | 34.199 | 26.842 | 126.0 | 0.696 | 0.62 | 9.0 | | | | | | | | | 403 207 |
| 500 ISL | 5.72 D | 5.68 | 34.215 D | 26.973 | 114.1 | 0.816 | 0.45 D | 6.4 | | | | | | | | | 504 |
| 503 | 5.71 | 5.67 | 34.220 | 26.978 | 113.6 | 0.820 | 0.45 D | 6.4 | | | | | | | | | 507 206 |
| 600 | 5.32 | 5.27 | 34.298 | 27.087 | 104.1 | 0.925 | 0.25 | 3.5 | | | | | | | | | 605 205 |
| 700 ISL | 4.97 D | 4.91 | 34.358 D | 27.176 | 96.4 | 1.025 | 0.23 D | 3.2 | | | | | | | | | 706 |
| 702 | 4.97 | 4.91 | 34.359 | 27.177 | 96.3 | 1.027 | 0.24 D | 3.4 | | | | | | | | | 708 204 |
| 800 ISL | 4.53 D | 4.47 | 34.396 D | 27.256 | 89.2 | 1.118 | 0.27 D | 3.7 | | | | | | | | | 807 |
| 802 | 4.53 | 4.47 | 34.398 | 27.258 | 89.1 | 1.120 | 0.25 | 3.5 | | | | | | | | | 809 203 |
| 900 ISL | 4.20 D | 4.13 | 34.428 D | 27.318 | 83.8 | 1.205 | 0.34 D | 4.7 | | | | | | | | | 908 |
| 904 | 4.20 | 4.13 | 34.429 | 27.318 | 83.8 | 1.208 | 0.35 D | 4.8 | | | | | | | | | 912 202 |
| 1000 ISL | 3.93 D | 3.85 | 34.453 D | 27.366 | 79.6 | 1.286</td | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 65.0

| 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 | 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 | 11.88 | 11.88 | 33.118 | 25.151 | 280.4 | 0.000 | 6.17 | 100.5 | | | | | | | 1.07 | 0.74 | 0 | |
| 2 | 11.88 | 11.88 | 33.118 | 25.151 | 280.5 | 0.006 | 6.17 | 100.5 | | | | | | | 1.07 | 0.74 | 2 220 | |
| 5 | 11.88 | 11.88 | 33.114 | 25.148 | 280.9 | 0.014 | | | | | | | | | 1.16 | 0.64 | 5 219 | |
| 10 | 11.88 | 11.88 | 33.112 | 25.146 | 281.1 | 0.028 | 6.21 | 101.2 | | | | | | | 1.19 | 0.68 | 10 218 | |
| 20 | 11.93 | 11.93 | 33.207 | 25.211 | 275.2 | 0.056 | 6.18 | 100.8 | | | | | | | 1.05 | 0.46 | 20 217 | |
| 30 | 11.73 | 11.73 | 33.290 | 25.313 | 265.8 | 0.083 | 6.00 | D 97.5 | | | | | | | 0.57 | 0.53 | 30 216 | |
| 41 | 11.00 | 11.00 | 33.397 | 25.529 | 245.4 | 0.111 | 4.71 | 75.4 | | | | | | | 0.21 | 0.39 | 41 215 | |
| 50 ISL | 10.15 D | 10.14 | 33.624 D | 25.854 | 214.7 | 0.132 | 3.44 | D 54.1 | | | | | | | 0.14 | 0.34 | 50 | |
| 61 | 9.92 | 9.91 | 33.670 | 25.928 | 207.8 | 0.155 | 3.09 | D 48.4 | | | | | | | 0.05 | 0.31 | 61 214 | |
| 75 ISL | 9.48 D | 9.47 | 33.750 D | 26.064 | 195.2 | 0.183 | 2.88 | D 44.7 | | | | | | | 0.04 | 0.24 | 75 | |
| 81 | 9.39 | 9.38 | 33.787 | 26.108 | 191.2 | 0.195 | 2.67 | 41.4 | | | | | | | 0.03 | 0.21 | 81 213 | |
| 100 ISL | 9.04 D | 9.03 | 33.920 D | 26.268 | 176.3 | 0.230 | 2.33 | D 35.8 | | | | | | | 0.03 | 0.19 | 101 | |
| 101 | 9.04 | 9.03 | 33.919 | 26.267 | 176.3 | 0.231 | 2.30 | 35.4 | | | | | | | 0.03 | 0.19 | 102 212 | |
| 125 ISL | 8.70 D | 8.69 | 33.986 D | 26.374 | 166.7 | 0.273 | 2.10 | D 32.1 | | | | | | | 0.02 | 0.15 | 126 | |
| 150 | 8.52 | 8.50 | 34.043 | 26.446 | 160.2 | 0.313 | 1.85 | D 28.1 | | | | | | | 0.01 | 0.12 | 151 211 | |
| 200 ISL | 8.07 D | 8.05 | 34.099 D | 26.559 | 150.3 | 0.391 | 1.47 | D 22.1 | | | | | | | 0.01 | 0.12 | 201 | |
| 201 | 8.07 | 8.05 | 34.099 | 26.559 | 150.3 | 0.393 | 1.44 | 21.7 | | | | | | | 0.01 | 0.12 | 202 210 | |
| 232 | 7.88 | 7.86 | 34.105 | 26.592 | 147.6 | 0.439 | 1.38 | 20.7 | | | | | | | | | 233 209 | |
| 250 ISL | 7.69 D | 7.67 | 34.120 D | 26.632 | 144.1 | 0.465 | 1.35 | D 20.2 | | | | | | | | | 252 | |
| 300 | 7.26 | 7.23 | 34.141 | 26.710 | 137.3 | 0.535 | 1.03 | D 15.2 | | | | | | | | | 302 208 | |
| 400 ISL | 6.44 D | 6.40 | 34.186 D | 26.858 | 124.3 | 0.666 | 0.61 | D 8.8 | | | | | | | | | 403 | |
| 401 | 6.44 | 6.40 | 34.188 | 26.859 | 124.2 | 0.667 | 0.61 | 8.8 | | | | | | | | | 404 207 | |
| 500 ISL | 5.70 D | 5.66 | 34.248 D | 27.001 | 111.4 | 0.784 | 0.35 | D 5.0 | | | | | | | | | 504 | |
| 501 | 5.70 | 5.66 | 34.249 | 27.002 | 111.3 | 0.785 | 0.35 | D 5.0 | | | | | | | | | 505 206 | |
| 600 | 5.31 | 5.26 | 34.296 | 27.087 | 104.1 | 0.892 | 0.24 | 3.4 | | | | | | | | | 605 205 | |
| 699 | 4.88 | 4.82 | 34.352 | 27.182 | 95.7 | 0.991 | 0.22 | D 3.1 | | | | | | | | | 705 204 | |
| 700 ISL | 4.86 D | 4.80 | 34.353 D | 27.185 | 95.4 | 0.992 | 0.22 | D 3.1 | | | | | | | | | 706 | |
| 800 | 4.49 | 4.43 | 34.397 | 27.261 | 88.6 | 1.084 | 0.24 | 3.3 | | | | | | | | | 807 203 | |
| 900 ISL | 4.19 D | 4.12 | 34.429 D | 27.319 | 83.6 | 1.170 | 0.33 | D 4.5 | | | | | | | | | 908 | |
| 901 | 4.20 | 4.13 | 34.430 | 27.319 | 83.6 | 1.171 | 0.33 | D 4.5 | | | | | | | | | 909 202 | |
| 1000 ISL | 3.90 D | 3.82 | 34.458 D | 27.373 | 78.8 | 1.251 | 0.44 | D 6.0 | | | | | | | | | 1009 | |
| 1030 | 3.82 | 3.74 | 34.464 | 27.386 | 77.7 | 1.274 | 0.45 | 6.1 | | | | | | | | | 1039 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 11.90 | 11.90 | 32.885 | 24.966 | 298.0 | 0.000 | 6.25 | 101.7 | | | | | | | 1.16 | 0.45 | 0 | |
| 3 | 11.90 | 11.90 | 32.885 | 24.966 | 298.1 | 0.009 | 6.25 | 101.7 | | | | | | | 1.16 | 0.45 | 3 220 | |
| 5 | 11.91 | 11.91 | 32.888 | 24.967 | 298.1 | 0.015 | | | | | | | | | 1.07 | 0.39 | 5 219 | |
| 10 ISL | 11.91 D | 11.91 | 32.883 D | 24.963 | 298.6 | 0.030 | 6.25 | 101.7 | | | | | | | 1.10 | 0.36 | 10 218 | |
| 11 | 11.91 | 11.91 | 32.884 | 24.964 | 298.5 | 0.033 | 6.25 | 101.7 | | | | | | | 1.11 | 0.35 | 11 218 | |
| 20 ISL | 11.87 D | 11.87 | 32.906 D | 24.988 | 296.4 | 0.060 | 6.25 | D 101.6 | | | | | | | 1.19 | 0.62 | 20 | |
| 21 | 11.86 | 11.86 | 32.916 | 24.998 | 295.5 | 0.063 | 6.24 | 101.5 | | | | | | | 1.20 | 0.65 | 21 217 | |
| 30 ISL | 11.83 D | 11.83 | 32.934 D | 25.018 | 293.8 | 0.089 | 6.25 | D 101.6 | | | | | | | 1.16 | 0.56 | 30 | |
| 31 | 11.83 | 11.83 | 32.937 | 25.020 | 293.6 | 0.092 | 6.22 | D 101.1 | | | | | | | 1.16 | 0.54 | 31 216 | |
| 41 | 11.67 | 11.66 | 32.982 | 25.085 | 287.7 | 0.121 | 6.09 | 98.7 | | | | | | | 0.88 | 0.57 | 41 215 | |
| 50 ISL | 11.52 D | 11.51 | 33.036 D | 25.154 | 281.3 | 0.147 | 6.02 | D 97.2 | | | | | | | 0.63 | 0.53 | 50 | |
| 59 | 11.43 | 11.42 | 33.291 | 25.291 | 268.5 | 0.171 | 5.75 | D 92.8 | | | | | | | 0.41 | 0.50 | 59 214 | |
| 75 ISL | 10.19 D | 10.18 | 33.277 D | 25.577 | 241.6 | 0.212 | 4.90 | D 77.0 | | | | | | | 0.14 | 0.32 | 75 | |
| 80 | 9.98 | 9.97 | 33.267 | 25.604 | 239.0 | 0.224 | 4.72 | 73.8 | | | | | | | 0.09 | 0.26 | 80 213 | |
| 100 | 9.56 | 9.55 | 33.579 | 25.918 | 209.6 | 0.269 | 3.51 | 54.5 | | | | | | | 0.03 | 0.13 | 101 212 | |
| 125 ISL | 9.10 D | 9.09 | 33.833 D | 26.191 | 184.1 | 0.318 | 2.76 | D 42.5 | | | | | | | 0.02 | 0.09 | 126 | |
| 150 | 8.68 | 8.66 | 33.917 | 26.323 | 171.9 | 0.363 | 3.25 | D 49.6 | | | | | | | 0.01 | 0.06 | 151 211 | |
| 200 | 7.98 | 7.96 | 34.004 | 26.498 | 156.1 | 0.445 | 2.24 | 33.7 | | | | | | | 0.01 | 0.09 | 201 210 | |
| 230 | 7.92 | 7.90 | 34.082 | 26.568 | 149.9 | 0.491 | 1.56 | 23.4 | | | | | | | | | 231 209 | |
| 250 ISL | 7.73 D | 7.71 | 34.078 D | 26.593 | 147.8 | 0.520 | 1.62 | D 24.2 | | | | | | | | | 252 | |
| 300 ISL | 7.08 D | 7.05 | 34.094 D | 26.698 | 138.3 | 0.592 | 1.28 | D 18.8 | | | | | | | | | 302 | |
| 301 | 7.11 | 7.08 | 34.096 | 26.696 | 138.6 | 0.593 | 1.27 | D 18.7 | | | | | | | | | 303 208 | |
| 400 ISL | 6.09 D | 6.05 | 34.147 D | 26.872 | 122.6 | 0.723 | 0.74 | D 10.6 | | | | | | | | | 403 | |
| 401 | 6.10 | 6.06 | 34.150 | 26.873 | 122.5 | 0.724 | 0.72 | 10.4 | | | | | | | | | 404 207 | |
| 500 | 5.59 | 5.55 | 34.219 | 26.992 | 112.1 | 0.840 | 0.43 | D 6.1 | | | | | | | | | 504 206 | |
| 600 ISL | 4.93 D | 4.88 | 34.244 D | 27.089 | 103.3 | 0.948 | 0.31 | D 4.3 | | | | | | | | | 605 | |
| 601 | 4.93 | 4.88 | 34.246 | 27.091 | 103.2 | 0.949 | 0.29 | 4.1 | | | | | | | | | 606 205 | |
| 700 ISL | 4.80 D | 4.74 | 34.344 D | 27.184 | 95.3 | 1.047 | 0.22 | D 3.1 | | | | | | | | | 705 | |
| 701 | 4.80 | 4.74 | 34.352 | 27.191 | 94.7 | 1.048 | 0.23 | D 3.2 | | | | | | | | | 706 204 | |
| 800 | 4.43 | 4.37 | 34.408 | 27.276 | 87.1 | 1.138 | 0.27 | 3.7 | | | | | | | | | 806 203 | |
| 900 ISL | 4.11 D | 4.04 | 34.439 D | 27.336 | 81.9 | 1.222 | 0.37 | D 5.1 | | | | | | | | | 908 | |
| 901 | 4.11 | 4.04 | 34.441 | 27.337 | 81.7 | 1.223 | 0.37 | D 5.1 | | | | | | | | | 909 202 | |
| 1000 ISL | 3.88 D | 3.80 | 34.459 D | 27.376 | 78.5 | 1.303 | 0.45 | D 6.1 | | | | | | | | | 1009 | |
| 1030 | 3.84 | 3.76 | 34.463 | 27.383 | 78.0 | 1.32 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 75.0

| 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 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | um/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 35 | 57.3 N | 123 50.5 W | 01/02/11 | 2308 UTC | 3877 m | 290 | 21 kn | 350 06 05 | 1 | 1020.2 mb | 13.0 C | 12.0 C | 16m | 7/8 | AC | | |
| 0 | ISL | 13.07 | 13.07 | 32.753 | 24.639 | 329.1 | 0.000 | 6.12 | 102.0 | | | | | 0.76 | 0.21 | 0 | |
| 3 | | 13.07 | 13.07 | 32.753 | 24.640 | 329.2 | 0.010 | 6.12 | 102.0 | | | | | 0.76 | 0.21 | 3 220 | |
| 5 | | 13.07 | 13.07 | 32.754 | 24.640 | 329.1 | 0.016 | | | | | | | 0.75 | 0.20 | 5 219 | |
| 10 | | 13.08 | 13.08 | 32.755 | 24.639 | 329.4 | 0.033 | 6.15 | 102.5 | | | | | 0.73 | 0.19 | 10 218 | |
| 20 | | 13.09 | 13.09 | 32.757 | 24.639 | 329.7 | 0.066 | 6.12 | 102.0 | | | | | 0.75 | 0.19 | 20 217 | |
| 30 | ISL | 13.01 | 13.01 | 32.751 D | 24.651 | 328.8 | 0.099 | 6.15 | D102.4 | | | | | 0.77 | 0.20 | 30 | |
| 31 | | 13.04 | 13.04 | 32.755 | 24.648 | 329.1 | 0.102 | 6.16 | D102.6 | | | | | 0.77 | 0.20 | 31 216 | |
| 40 | | 12.69 | 12.68 | 32.728 | 24.695 | 324.8 | 0.132 | 6.18 | 102.1 | | | | | 0.77 | 0.17 | 40 215 | |
| 50 | ISL | 12.52 | 12.51 | 32.721 D | 24.723 | 322.4 | 0.164 | 6.21 | D102.3 | | | | | 0.70 | 0.26 | 50 | |
| 62 | | 11.91 | 11.90 | 32.843 | 24.933 | 302.7 | 0.201 | 5.91 | D 96.1 | | | | | 0.61 | 0.35 | 62 214 | |
| 75 | ISL | 10.70 D | 10.69 | 32.974 D | 25.253 | 272.4 | 0.239 | 5.59 | D 88.7 | | | | | 0.25 | 0.19 | 75 | |
| 80 | | 10.42 | 10.41 | 33.061 | 25.369 | 261.4 | 0.252 | 5.27 | 83.1 | | | | | 0.12 | 0.12 | 80 213 | |
| 100 | ISL | 10.21 D | 10.20 | 33.467 D | 25.722 | 228.3 | 0.301 | 3.88 | D 61.1 | | | | | 0.06 | 0.09 | 100 | |
| 102 | | 10.22 | 10.21 | 33.470 | 25.723 | 228.3 | 0.306 | 3.84 | 60.5 | | | | | 0.05 | 0.09 | 102 212 | |
| 125 | ISL | 9.27 D | 9.26 | 33.697 D | 26.057 | 196.8 | 0.355 | 3.32 | D 51.3 | | | | | 0.03 | 0.06 | 126 | |
| 150 | | 8.63 | 8.61 | 33.794 | 26.234 | 180.3 | 0.402 | 3.37 | D 51.3 | | | | | 0.01 | 0.03 | 151 211 | |
| 200 | ISL | 8.16 D | 8.14 | 34.026 D | 26.488 | 157.0 | 0.486 | 1.94 | D 29.3 | | | | | 0.01 | 0.03 | 201 | |
| 201 | | 8.16 | 8.14 | 34.027 | 26.489 | 157.0 | 0.488 | 1.93 | 29.1 | | | | | 0.01 | 0.03 | 202 210 | |
| 230 | | 7.78 | 7.76 | 34.055 | 26.568 | 149.9 | 0.532 | 1.76 | 26.3 | | | | | | 231 | 209 | |
| 250 | ISL | 7.38 D | 7.36 | 34.040 D | 26.613 | 145.7 | 0.562 | 1.83 | D 27.1 | | | | | | 252 | | |
| 300 | ISL | 7.09 D | 7.06 | 34.102 D | 26.703 | 137.8 | 0.632 | 1.27 | D 18.7 | | | | | | 302 | | |
| 301 | | 7.08 | 7.05 | 34.101 | 26.704 | 137.8 | 0.634 | 1.27 | D 18.7 | | | | | | 303 | 208 | |
| 400 | ISL | 6.48 D | 6.44 | 34.189 D | 26.855 | 124.6 | 0.764 | 0.67 | D 9.7 | | | | | | 403 | | |
| 401 | | 6.50 | 6.46 | 34.196 | 26.858 | 124.4 | 0.765 | 0.64 | 9.3 | | | | | | 404 | 207 | |
| 500 | | 5.85 | 5.81 | 34.249 | 26.984 | 113.2 | 0.883 | 0.39 | D 5.6 | | | | | | 504 | 206 | |
| 600 | ISL | 5.37 D | 5.32 | 34.303 D | 27.085 | 104.3 | 0.991 | 0.26 | D 3.7 | | | | | | 604 | | |
| 601 | | 5.37 | 5.32 | 34.306 | 27.088 | 104.1 | 0.992 | 0.25 | 3.5 | | | | | | 605 | 205 | |
| 700 | ISL | 4.73 D | 4.67 | 34.319 D | 27.172 | 96.3 | 1.092 | 0.23 | D 3.2 | | | | | | 705 | | |
| 702 | | 4.73 | 4.67 | 34.321 | 27.174 | 96.2 | 1.094 | 0.23 | D 3.2 | | | | | | 707 | 204 | |
| 800 | ISL | 4.44 D | 4.38 | 34.379 D | 27.252 | 89.4 | 1.184 | 0.26 | D 3.6 | | | | | | 806 | | |
| 803 | | 4.44 | 4.38 | 34.381 | 27.254 | 89.2 | 1.187 | 0.24 | 3.3 | | | | | | 809 | 203 | |
| 900 | ISL | 4.19 D | 4.12 | 34.423 D | 27.315 | 84.0 | 1.271 | 0.34 | D 4.7 | | | | | | 908 | | |
| 902 | | 4.19 | 4.12 | 34.425 | 27.316 | 83.9 | 1.273 | 0.34 | D 4.7 | | | | | | 910 | 202 | |
| 1000 | ISL | 3.89 D | 3.81 | 34.457 D | 27.373 | 78.8 | 1.353 | 0.45 | D 6.1 | | | | | | 1009 | | |
| 1030 | | 3.81 | 3.73 | 34.467 | 27.390 | 77.4 | 1.376 | 0.48 | 6.5 | | | | | | 1039 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | SVA | DYN HT | OXYGEN | OXY | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | | THETA | | ml/l | um/l | pct | um/l | um/l | um/l | um/l | um/l | ug/l | ug/l | db | |
| 35 | 47.5 N | 124 12.1 W | 02/02/11 | 0248 UTC | 3956 m | 280 | 21 kn | 350 06 05 | 1 | 1020.2 mb | 13.0 C | 11.0 C | 16m | 7/8 | AC | | |
| 0 | ISL | 13.17 | 13.17 | 32.722 | 24.596 | 333.3 | 0.000 | 6.06 | 101.2 | | | | | 0.56 | 0.16 | 0 | |
| 2 | | 13.17 | 13.17 | 32.722 | 24.596 | 333.3 | 0.007 | 6.06 | 101.2 | | | | | 0.56 | 0.16 | 2 221 | |
| 5 | | 13.18 | 13.18 | 32.722 | 24.594 | 333.6 | 0.017 | | | | | | | 0.58 | 0.17 | 5 220 | |
| 10 | | 13.18 | 13.18 | 32.722 | 24.594 | 333.7 | 0.033 | 6.07 | 101.4 | | | | | 0.57 | 0.17 | 10 219 | |
| 20 | | 13.18 | 13.18 | 32.722 | 24.594 | 333.9 | 0.067 | 6.08 | 101.5 | | | | | 0.56 | 0.17 | 20 218 | |
| 30 | | 13.18 | 13.18 | 32.721 | 24.594 | 334.2 | 0.100 | 6.08 | D101.5 | | | | | 0.56 | 0.17 | 30 217 | |
| 40 | | 13.15 | 13.14 | 32.719 | 24.598 | 334.1 | 0.134 | 6.07 | 101.3 | | | | | 0.55 | 0.16 | 40 216 | |
| 50 | ISL | 12.98 D | 12.97 | 32.715 D | 24.629 | 331.4 | 0.167 | 6.07 | D100.9 | | | | | 0.57 | 0.18 | 50 | |
| 60 | | 12.86 | 12.85 | 32.733 | 24.667 | 328.0 | 0.200 | 6.05 | D100.4 | | | | | 0.59 | 0.20 | 60 215 | |
| 75 | ISL | 11.42 D | 11.41 | 32.846 D | 25.026 | 294.1 | 0.246 | 5.83 | D 93.9 | | | | | 0.33 | 0.16 | 75 | |
| 80 | | 11.00 | 10.99 | 32.895 | 25.139 | 283.4 | 0.261 | 5.75 | 91.8 | | | | | 0.23 | 0.14 | 80 214 | |
| 100 | | 10.19 | 10.18 | 33.251 | 25.557 | 244.0 | 0.314 | 4.83 | 75.9 | | | | | 0.07 | 0.11 | 100 213 | |
| 125 | ISL | 8.93 D | 8.92 | 33.447 D | 25.916 | 210.1 | 0.370 | 4.30 | D 65.8 | | | | | 0.04 | 0.07 | 126 | |
| 150 | | 9.11 | 9.09 | 33.783 | 26.151 | 188.4 | 0.420 | 2.96 | D 45.6 | | | | | 0.00 | 0.05 | 151 212 | |
| 200 | ISL | 8.31 D | 8.29 | 33.975 D | 26.426 | 163.0 | 0.508 | 2.43 | D 36.8 | | | | | 0.00 | 0.05 | 201 | |
| 201 | | 8.32 | 8.30 | 33.976 | 26.425 | 163.1 | 0.510 | 2.44 | 36.9 | | | | | 0.00 | 0.05 | 202 211 | |
| 231 | | 7.79 | 7.77 | 33.999 | 26.522 | 154.2 | 0.557 | 2.27 | 34.0 | | | | | | 232 | 210 | |
| 250 | ISL | 7.62 D | 7.60 | 34.018 D | 26.562 | 150.7 | 0.586 | 2.00 | D 29.8 | | | | | | 251 | | |
| 300 | ISL | 7.00 D | 6.97 | 34.038 D | 26.665 | 141.4 | 0.659 | 1.65 | D 24.2 | | | | | | 302 | | |
| 301 | | 6.99 | 6.96 | 34.039 | 26.667 | 141.2 | 0.661 | 1.64 | D 24.1 | | | | | | 303 | 209 | |
| 400 | | 6.04 | 6.01 | 34.093 | 26.835 | 126.0 | 0.793 | 1.04 | 14.9 | | | | | | 403 | 208 | |
| 500 | ISL | 5.32 D | 5.28 | 34.160 D | 26.977 | 113.2 | 0.913 | 0.58 | D 8.2 | | | | | | 503 | | |
| 501 | | 5.32 | 5.28 | 34.161 | 26.978 | 113.1 | 0.914 | 0.58 | D 8.2 | | | | | | 505 | 207 | |
| 600 | | 5.00 | 4.95 | 34.272 | 27.104 | 102.1 | 1.020 | 0.25 | 3.5 | | | | | | 604 | 206 | |
| 698 | | 4.91 | 4.85 | 34.372 | 27.194 | 94.6 | 1.116 | 0.24 | D 3.4 | | | | | | 703 | 205 | |
| 700 | ISL | 4.91 D | 4.85 | 34.373 D | 27.195 | 94.5 | 1.118 | 0.24 | D 3.4 | | | | | | 705 | | |
| 800 | | 4.57 | 4.51 | 34.406 | 27.260 | 88.9 | 1.210 | 0.27 | 3.7 | | | | | | 806 | 203 | |
| 900 | ISL | 4.26 D | 4.19 | 34.438 D | 27.319 | 83.8 | 1.296 | 0.36 | D 5.0 | | | | | | 907 | | |
| 902 | | 4.26 | 4.19 | 34.441 | 27.322 | 83.5 | 1.298 | 0.37 | D 5.1 | | | | | | 909 | 202 | |
| 1000 | ISL | 3.91 D | 3.83 | 34.450 D | 27.366 | 79.6 | 1.378 | 0.43 | D 5.9 | | | | | | 1009 | | |
| 1034 | | 3.83 | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 85.0

| 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 | 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 | 13.63 | 13.63 | 32.793 | 24.558 | 336.8 | 0.000 | 6.01 | 101.4 | | | | | | 0.74 | 0.23 | 0 | |
| 3 | 13.63 | 13.63 | 32.793 | 24.558 | 336.9 | 0.010 | 6.01 | 101.4 | | | | | | 0.74 | 0.23 | 3 | 220 |
| 5 | 13.63 | 13.63 | 32.793 | 24.558 | 336.9 | 0.017 | | | | | | | | 0.76 | 0.23 | 5 | 219 |
| 9 | 13.63 | 13.63 | 32.793 | 24.559 | 337.1 | 0.030 | 6.02 | 101.5 | | | | | | 0.74 | 0.23 | 9 | 218 |
| 10 ISL | 13.64 | 13.64 | 32.791 | 24.555 | 337.4 | 0.034 | 6.03 | D101.7 | | | | | | 0.74 | 0.23 | 10 | |
| 20 | 13.64 | 13.64 | 32.793 | 24.557 | 337.5 | 0.067 | 6.01 | 101.4 | | | | | | 0.72 | 0.23 | 20 | 217 |
| 30 | 13.64 | 13.64 | 32.792 | 24.556 | 337.8 | 0.101 | 6.03 | D101.7 | | | | | | 0.73 | 0.21 | 30 | 216 |
| 40 | 13.64 | 13.63 | 32.793 | 24.557 | 338.0 | 0.135 | 6.01 | 101.4 | | | | | | 0.73 | 0.22 | 40 | 215 |
| 50 ISL | 13.54 | D 13.53 | 32.815 | D 24.595 | 334.7 | 0.169 | 6.02 | D101.3 | | | | | | 0.69 | 0.28 | 50 | |
| 61 | 13.09 | 13.08 | 32.927 | 24.772 | 318.1 | 0.205 | 5.84 | D 97.5 | | | | | | 0.58 | 0.31 | 61 | 214 |
| 75 ISL | 11.47 | D 11.46 | 32.909 | D 25.065 | 290.3 | 0.247 | 5.78 | D 93.2 | | | | | | 0.24 | 0.17 | 75 | |
| 80 | 11.18 | 11.17 | 32.952 | 25.151 | 282.2 | 0.261 | 5.60 | 89.7 | | | | | | 0.13 | 0.12 | 80 | 213 |
| 100 ISL | 10.57 | D 10.56 | 33.267 | D 25.504 | 249.0 | 0.315 | 4.58 | D 72.6 | | | | | | 0.07 | 0.10 | 100 | |
| 101 | 10.62 | 10.61 | 33.266 | 25.495 | 250.0 | 0.317 | 4.64 | 73.6 | | | | | | 0.07 | 0.10 | 101 | 212 |
| 125 ISL | 9.48 | D 9.47 | 33.554 | D 25.912 | 210.7 | 0.372 | 3.74 | D 58.0 | | | | | | 0.03 | 0.07 | 126 | |
| 150 | 9.02 | 9.00 | 33.751 | 26.140 | 189.4 | 0.422 | 3.11 | D 47.8 | | | | | | 0.01 | 0.04 | 151 | 211 |
| 200 | 8.35 | 8.33 | 33.959 | 26.407 | 164.8 | 0.511 | 2.53 | 38.3 | | | | | | 0.00 | 0.03 | 201 | 210 |
| 231 | 7.88 | 7.86 | 34.001 | 26.511 | 155.3 | 0.561 | 2.23 | 33.4 | | | | | | | | 232 | 209 |
| 250 ISL | 7.63 | D 7.61 | 34.018 | D 26.560 | 150.8 | 0.590 | 2.04 | D 30.4 | | | | | | | | 251 | |
| 300 | 7.07 | 7.04 | 34.045 | 26.661 | 141.8 | 0.663 | 1.64 | D 24.1 | | | | | | | | 302 | 208 |
| 400 | 6.02 | 5.99 | 34.087 | 26.833 | 126.2 | 0.797 | 1.02 | 14.6 | | | | | | | | 403 | 207 |
| 500 | 5.47 | 5.43 | 34.183 | 26.977 | 113.3 | 0.916 | 0.51 | D 7.2 | | | | | | | | 503 | 206 |
| 600 ISL | 4.95 | D 4.90 | 34.254 | D 27.095 | 102.8 | 1.025 | 0.29 | D 4.1 | | | | | | | | 604 | |
| 601 | 4.95 | 4.90 | 34.256 | 27.097 | 102.6 | 1.026 | 0.28 | 3.9 | | | | | | | | 605 | 205 |
| 700 ISL | 4.60 | D 4.55 | 34.328 | D 27.194 | 94.1 | 1.123 | 0.23 | D 3.2 | | | | | | | | 705 | |
| 701 | 4.60 | 4.54 | 34.329 | 27.194 | 94.0 | 1.124 | 0.23 | D 3.2 | | | | | | | | 706 | 204 |
| 800 ISL | 4.28 | D 4.22 | 34.376 | D 27.267 | 87.7 | 1.214 | 0.26 | D 3.6 | | | | | | | | 806 | |
| 801 | 4.28 | 4.22 | 34.378 | 27.269 | 87.5 | 1.215 | 0.24 | 3.3 | | | | | | | | 807 | 203 |
| 899 | 4.04 | 3.97 | 34.421 | 27.329 | 82.4 | 1.298 | 0.36 | D 4.9 | | | | | | | | 906 | 202 |
| 900 ISL | 4.04 | D 3.97 | 34.420 | D 27.328 | 82.5 | 1.299 | 0.36 | D 4.9 | | | | | | | | 907 | |
| 1000 ISL | 3.84 | D 3.76 | 34.453 | D 27.375 | 78.5 | 1.379 | 0.48 | D 6.5 | | | | | | | | 1009 | |
| 1031 | 3.78 | 3.70 | 34.459 | 27.386 | 77.6 | 1.403 | 0.49 | 6.7 | | | | | | | | 1040 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 66.7 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 | SVA | 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 | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 12.88 | 12.88 | 32.694 | 24.631 | 329.9 | 0.000 | 6.14 | 101.9 | | | | | | 0.56 | 0.15 | 0 | |
| 2 | 12.88 | 12.88 | 32.694 | 24.631 | 330.0 | 0.007 | 6.14 | 101.9 | | | | | | 0.56 | 0.15 | 2 | 220 |
| 5 | 12.89 | 12.89 | 32.694 | 24.629 | 330.2 | 0.017 | | | | | | | | 0.53 | 0.15 | 5 | 219 |
| 10 | 12.89 | 12.89 | 32.694 | 24.629 | 330.3 | 0.033 | 6.13 | 101.7 | | | | | | 0.52 | 0.14 | 10 | 218 |
| 20 | 12.89 | 12.89 | 32.694 | 24.630 | 330.5 | 0.066 | 6.13 | 101.7 | | | | | | 0.53 | 0.16 | 20 | 217 |
| 30 | 12.90 | 12.90 | 32.694 | 24.628 | 331.0 | 0.099 | 6.13 | D101.8 | | | | | | 0.53 | 0.15 | 30 | 216 |
| 40 | 12.88 | 12.87 | 32.695 | 24.633 | 330.8 | 0.132 | 6.13 | 101.7 | | | | | | 0.57 | 0.16 | 40 | 215 |
| 50 ISL | 12.87 | D 12.86 | 32.694 | D 24.634 | 330.9 | 0.165 | 6.14 | D101.8 | | | | | | 0.58 | 0.17 | 50 | |
| 59 | 12.85 | 12.84 | 32.694 | 24.638 | 330.7 | 0.195 | 6.13 | D101.6 | | | | | | 0.58 | 0.18 | 59 | 214 |
| 75 ISL | 11.77 | D 11.76 | 32.913 | D 25.014 | 295.3 | 0.245 | 5.91 | D 95.9 | | | | | | 0.35 | 0.16 | 75 | |
| 79 | 11.74 | 11.73 | 32.928 | 25.031 | 293.7 | 0.257 | 5.90 | 95.7 | | | | | | 0.28 | 0.15 | 79 | 213 |
| 100 ISL | 11.00 | D 10.99 | 33.167 | D 25.351 | 263.7 | 0.315 | 5.40 | D 86.3 | | | | | | 0.13 | 0.13 | 100 | |
| 101 | 11.03 | 11.02 | 33.194 | 25.367 | 262.2 | 0.318 | 5.42 | 86.7 | | | | | | 0.13 | 0.13 | 101 | 212 |
| 125 ISL | 9.48 | D 9.47 | 33.392 | D 25.785 | 222.7 | 0.376 | 4.34 | D 67.2 | | | | | | 0.05 | 0.08 | 126 | |
| 150 | 8.54 | 8.52 | 33.576 | 26.077 | 195.2 | 0.429 | 4.18 | D 63.4 | | | | | | 0.01 | 0.04 | 151 | 211 |
| 199 | 8.47 | 8.45 | 33.948 | 26.380 | 167.4 | 0.517 | 2.58 | 39.2 | | | | | | 0.00 | 0.04 | 200 | 210 |
| 200 ISL | 8.45 | D 8.43 | 33.948 | D 26.383 | 167.1 | 0.519 | 2.59 | D 39.3 | | | | | | | | 201 | |
| 231 | 7.95 | 7.93 | 33.989 | 26.491 | 157.2 | 0.569 | 2.47 | 37.1 | | | | | | | | 232 | 209 |
| 250 ISL | 7.69 | D 7.67 | 34.008 | D 26.544 | 152.4 | 0.599 | 2.14 | D 31.9 | | | | | | | | 251 | |
| 300 ISL | 7.09 | D 7.06 | 34.049 | D 26.661 | 141.8 | 0.672 | 1.61 | D 23.7 | | | | | | | | 302 | |
| 301 | 7.07 | 7.04 | 34.044 | 26.660 | 141.9 | 0.674 | 1.62 | D 23.8 | | | | | | | | 303 | 208 |
| 400 ISL | 5.92 | D 5.89 | 34.096 | D 26.853 | 124.2 | 0.805 | 0.94 | D 13.5 | | | | | | | | 403 | |
| 405 | 5.89 | 5.86 | 34.101 | 26.860 | 123.5 | 0.812 | 0.93 | 13.3 | | | | | | | | 408 | 207 |
| 500 ISL | 5.43 | D 5.39 | 34.176 | D 26.977 | 113.3 | 0.924 | 0.52 | D 7.4 | | | | | | | | 503 | |
| 502 | 5.43 | 5.39 | 34.178 | 26.978 | 113.2 | 0.926 | 0.50 | D 7.1 | | | | | | | | 505 | 206 |
| 599 | 4.95 | 4.90 | 34.258 | 27.098 | 102.5 | 1.031 | 0.27 | 3.8 | | | | | | | | 603 | 205 |
| 600 ISL | 4.94 | D 4.89 | 34.284 | D 27.099 | 102.4 | 1.032 | 0.28 | D 3.9 | | | | | | | | 604 | |
| 700 | 4.74 | 4.68 | 34.346 | 27.193 | 94.4 | 1.130 | 0.22 | D 3.1 | | | | | | | | 705 | 204 |
| 800 | 4.36 | 4.30 | 34.386 | 27.266 | 87.9 | 1.222 | 0.27 | 3.7 | | | | | | | | 806 | 203 |
| 900 ISL | 4.15 | D 4.08 | 34.437 | D 27.330 | 82.5 | 1.307 | 0.36 | D 4.9 | | | | | | | | 907 | |
| 902 | 4.16 | 4.09 | 34.438 | 27.330 | 82.6 | 1.308 | 0.36 | D 4.9 | | | | | | | | 909 | 202 |
| 1000 ISL | 3.84 | D 3.76 | 34.456 | D 27.378 | 78.3 | 1.387 | 0.43 | D 5.9 | | | | | | | | 1009 | |
| 1033 | 3.76 | 3.68 | 34.463 | 27.391 | 77.1 | 1.413 | 0.45 | 6.1 | | | | | | | | 1042 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 67.1 47.7

| 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 12.25 | 12.25 | 33.246 | 25.180 | 277.6 | 0.000 | 6.94 | 114.0 | | | | | | 7.79 | 1.75 | 0 | |
| 2 | | 12.25 | 12.25 | 33.246 | 25.180 | 277.7 | 0.006 | 6.94 | 114.0 | | | | | | 7.79 | 1.75 | 2 | |
| 5 | | 12.26 | 12.26 | 33.246 | 25.178 | 277.9 | 0.014 | | | | | | | | 8.01 | 1.86 | 5 | |
| 10 | | 12.22 | 12.22 | 33.252 | 25.191 | 276.9 | 0.028 | 6.99 | 114.8 | | | | | | 8.76 | 2.01 | 10 | |
| 20 | | 11.98 | 11.98 | 33.257 | 25.240 | 272.4 | 0.055 | 7.05 | 115.2 | | | | | | 16.38 | 2.86 | 20 | |
| 30 | ISL | 11.48 | D 11.48 | 33.353 D | 25.408 | 256.7 | 0.082 | 5.87 | D 94.9 | | | | | | 9.09 | 1.64 | 30 | |
| 31 | | 11.42 | 11.42 | 33.363 | 25.426 | 255.0 | 0.084 | 5.81 | D 93.9 | | | | | | 8.12 | 1.48 | 31 | |
| 40 | | 11.24 | 11.24 | 33.388 | 25.479 | 250.2 | 0.107 | 5.39 | D 86.7 | | | | | | 6.55 | 1.00 | 40 | |
| 50 | ISL | 11.08 | D 11.07 | 33.406 D | 25.522 | 246.3 | 0.132 | 5.17 | D 82.9 | | | | | | 3.48 | 0.62 | 50 | |
| 51 | | 11.09 | 11.08 | 33.404 | 25.518 | 246.7 | 0.134 | 5.20 | 83.4 | | | | | | 3.19 | 0.60 | 51 | |
| 61 | | 10.87 | 10.86 | 33.443 | 25.588 | 240.3 | 0.159 | 4.84 | D 77.3 | | | | | | 2.07 | 0.79 | 61 | |
| 75 | ISL | 10.61 | D 10.60 | 33.491 D | 25.671 | 232.6 | 0.192 | 4.41 | D 70.0 | | | | | | 1.23 | 0.80 | 75 | |
| 82 | | 10.47 | 10.46 | 33.516 | 25.715 | 228.6 | 0.208 | 4.19 | 66.4 | | | | | | 1.03 | 0.80 | 82 | |
| 100 | | 10.15 | 10.14 | 33.591 | 25.829 | 218.1 | 0.248 | 3.80 | 59.8 | | | | | | 0.88 | 0.74 | 101 | |
| 121 | | 9.93 | 9.92 | 33.644 | 25.908 | 211.1 | 0.293 | 3.52 | 55.1 | | | | | | 0.81 | 0.73 | 122 | |
| 125 | ISL | 9.93 | D 9.92 | 33.645 D | 25.909 | 211.1 | 0.302 | 3.51 | D 55.0 | | | | | | 0.79 | 0.70 | 126 | |
| 150 | | 9.60 | 9.58 | 33.721 | 26.023 | 200.7 | 0.353 | 3.06 | 47.6 | | | | | | 0.72 | 0.60 | 151 | |
| 172 | | 9.19 | 9.17 | 33.810 | 26.159 | 188.0 | 0.396 | 2.59 | D 39.9 | | | | | | 0.71 | 0.79 | 173 | |
| 189 | | 8.75 | 8.73 | 33.907 | 26.305 | 174.4 | 0.427 | 2.23 | 34.1 | | | | | | 0.74 | 0.97 | 190 | |
| D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02'; | | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 70.0 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 12.39 | 12.39 | 33.205 | 25.122 | 283.2 | 0.000 | 6.09 | 100.3 | | | | | | 0.48 | 0.23 | 0 | |
| 3 | | 12.39 | 12.39 | 33.205 | 25.122 | 283.2 | 0.008 | 6.09 | 100.3 | | | | | | 0.48 | 0.23 | 3 | |
| 9 | | 12.39 | 12.39 | 33.206 | 25.123 | 283.3 | 0.025 | 6.11 | 100.7 | | | | | | 0.50 | 0.31 | 9 | |
| 10 | ISL | 12.38 | D 12.38 | 33.204 D | 25.123 | 283.3 | 0.028 | 6.11 | D 100.6 | | | | | | 0.50 | 0.30 | 10 | |
| 20 | | 12.37 | 12.37 | 33.210 | 25.123 | 282.9 | 0.057 | 6.09 | 100.3 | | | | | | 0.49 | 0.19 | 20 | |
| 30 | | 12.03 | 12.03 | 33.284 | 25.252 | 271.5 | 0.084 | 5.70 | D 93.2 | | | | | | 0.42 | 0.17 | 30 | |
| 40 | | 11.64 | 11.63 | 33.322 | 25.354 | 262.0 | 0.111 | 5.23 | D 84.9 | | | | | | 0.35 | 0.26 | 40 | |
| 49 | | 10.93 | 10.92 | 33.398 | 25.542 | 244.3 | 0.134 | 4.40 | 70.3 | | | | | | 0.21 | 0.25 | 49 | |
| 50 | ISL | 10.95 | D 10.94 | 33.402 D | 25.542 | 244.4 | 0.136 | 4.49 | D 71.8 | | | | | | 0.20 | 0.24 | 50 | |
| 61 | | 10.59 | 10.58 | 33.477 | 25.664 | 233.0 | 0.163 | 3.87 | D 61.4 | | | | | | 0.14 | 0.17 | 61 | |
| 71 | | 10.14 | 10.13 | 33.561 | 25.807 | 219.6 | 0.185 | 3.51 | 55.2 | | | | | | 0.07 | 0.18 | 71 | |
| 75 | ISL | 10.01 | D 10.00 | 33.592 D | 25.853 | 215.3 | 0.194 | 3.38 | D 53.0 | | | | | | 0.05 | 0.17 | 75 | |
| 84 | | 9.65 | 9.64 | 33.691 | 25.990 | 202.4 | 0.213 | 3.04 | D 47.3 | | | | | | 0.02 | 0.15 | 84 | |
| 100 | | 9.27 | 9.26 | 33.799 | 26.137 | 188.8 | 0.244 | 2.79 | 43.1 | | | | | | 0.01 | 0.12 | 101 | |
| 120 | | 9.08 | 9.07 | 33.846 | 26.204 | 182.7 | 0.281 | 2.79 | 42.9 | | | | | | 0.01 | 0.09 | 121 | |
| 125 | ISL | 9.05 | D 9.04 | 33.868 D | 26.226 | 180.7 | 0.290 | 2.67 | D 41.1 | | | | | | 0.01 | 0.09 | 126 | |
| 140 | | 9.06 | 9.04 | 33.979 | 26.312 | 172.9 | 0.317 | 2.18 | 33.6 | | | | | | 0.01 | 0.10 | 141 | |
| 150 | ISL | 8.95 | D 8.93 | 34.000 D | 26.346 | 169.8 | 0.334 | 2.16 | D 33.2 | | | | | | 0.01 | 0.09 | 151 | |
| 170 | | 8.70 | 8.68 | 34.025 | 26.405 | 164.6 | 0.367 | 2.08 | D 31.8 | | | | | | 0.00 | 0.07 | 171 | |
| 200 | | 8.57 | 8.55 | 34.100 | 26.484 | 157.6 | 0.416 | 1.69 | 25.7 | | | | | | 0.00 | 0.07 | 201 | |
| 231 | | 8.24 | 8.22 | 34.097 | 26.533 | 153.5 | 0.464 | 1.66 | D 25.1 | | | | | | | 232 | 206 | |
| 250 | ISL | 8.03 | D 8.00 | 34.108 D | 26.573 | 149.9 | 0.493 | 1.45 | D 21.8 | | | | | | | | 252 | |
| 268 | | 7.91 | 7.88 | 34.123 | 26.603 | 147.3 | 0.519 | 1.31 | 19.7 | | | | | | | 270 | 205 | |
| 300 | ISL | 7.58 | D 7.55 | 34.166 D | 26.685 | 139.9 | 0.565 | 1.12 | D 16.7 | | | | | | | | 302 | |
| 322 | | 7.50 | 7.47 | 34.169 | 26.699 | 138.9 | 0.596 | 0.98 | D 14.6 | | | | | | | | 324 | |
| 379 | | 7.05 | 7.01 | 34.188 | 26.777 | 132.1 | 0.673 | 0.75 | 11.0 | | | | | | | | 382 | |
| 400 | ISL | 6.95 | D 6.91 | 34.191 D | 26.794 | 130.8 | 0.701 | 0.72 | D 10.6 | | | | | | | | 403 | |
| 441 | | 6.57 | 6.53 | 34.216 | 26.865 | 124.3 | 0.753 | 0.57 | D 8.3 | | | | | | | | 444 | |
| 500 | ISL | 6.03 | D 5.99 | 34.255 D | 26.966 | 115.1 | 0.824 | 0.40 | D 5.7 | | | | | | | | 504 | |
| 516 | | 5.97 | 5.92 | 34.255 | 26.974 | 114.5 | 0.842 | 0.35 | 5.0 | | | | | | | | 520 | |
| D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02'; | | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 70.0 60.0

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOET CRUISE 1101

STATION 70-0 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 THETA | SVA | DYN HT | OXYGEN ml/l | OXY PCT | SiO3 uM/l | Po4 uM/l | N03 uM/l | N02 uM/l | NH4 uM/l | CHL-A ug/l | PHAE0 ug/l | PRES db | SAMP |
| m | DEG C | DEG C | | | | | | | | | | | | | | | |
| 35 | 32.8 N | 123 4.8 W | 31/01/11 | 0427 | UTC | 3809 m | 270 | 24 kn | | 1020.1 mb | 13.0 | C | 10.2 | C | | | |
| 0 | ISL | 12.14 | 12.14 | 32.887 | 24.923 | 302.1 | 0.000 | 6.35 | 103.9 | | | | | 1.70 | 0.52 | 0 | |
| 3 | | 12.14 | 12.14 | 32.887 | 24.923 | 302.2 | 0.009 | 6.35 | 103.9 | | | | | 1.70 | 0.52 | 3 | |
| 10 | | 12.14 | 12.14 | 32.886 | 24.922 | 302.4 | 0.030 | 6.36 | 104.0 | | | | | 1.74 | 0.49 | 10 | |
| 20 | | 12.13 | 12.13 | 32.892 | 24.929 | 302.0 | 0.060 | 6.35 | 103.8 | | | | | 1.82 | 0.53 | 20 | |
| 30 | ISL | 11.67 | D 11.67 | 33.072 | D 25.155 | 280.8 | 0.090 | 6.20 | D 100.5 | | | | | 1.24 | 0.50 | 30 | |
| 31 | | 11.73 | 11.73 | 33.063 | 25.136 | 282.5 | 0.092 | 6.14 | D 99.7 | | | | | 1.16 | 0.50 | 31 | |
| 40 | | 11.66 | 11.65 | 33.165 | 25.229 | 274.0 | 0.117 | 6.08 | D 98.6 | | | | | 0.57 | 0.39 | 40 | |
| 50 | ISL | 11.43 | D 11.42 | 33.207 | D 25.304 | 267.1 | 0.145 | 5.90 | D 95.2 | | | | | 0.45 | 0.40 | 50 | |
| 51 | | 11.39 | 11.38 | 33.200 | 25.306 | 266.9 | 0.147 | 5.89 | 95.0 | | | | | 0.44 | 0.40 | 51 | |
| 58 | | 11.64 | 11.63 | 33.290 | 25.330 | 264.8 | 0.166 | 5.83 | D 94.6 | | | | | 0.39 | 0.38 | 58 | |
| 71 | | 10.64 | 10.63 | 33.211 | 25.448 | 253.7 | 0.199 | 5.08 | 80.6 | | | | | 0.11 | 0.16 | 71 | |
| 75 | ISL | 10.35 | D 10.34 | 33.244 | D 25.524 | 246.6 | 0.209 | 4.89 | D 77.1 | | | | | 0.09 | 0.13 | 75 | |
| 86 | | 9.51 | 9.50 | 33.343 | 25.741 | 226.0 | 0.235 | 4.33 | D 67.1 | | | | | 0.04 | 0.09 | 86 | |
| 100 | | 8.77 | 8.76 | 33.447 | 25.940 | 207.3 | 0.266 | 4.22 | 64.3 | | | | | 0.01 | 0.08 | 101 | |
| 122 | | 8.87 | 8.86 | 33.697 | 26.121 | 190.6 | 0.310 | 3.44 | 52.6 | | | | | 0.01 | 0.05 | 123 | |
| 125 | ISL | 8.83 | D 8.82 | 33.770 | D 26.184 | 184.6 | 0.315 | 3.12 | D 47.7 | | | | | 0.01 | 0.05 | 126 | |
| 140 | | 8.85 | 8.84 | 33.909 | 26.290 | 174.9 | 0.342 | 2.61 | 40.0 | | | | | 0.00 | 0.04 | 141 | |
| 150 | ISL | 8.60 | D 8.58 | 33.919 | D 26.337 | 170.6 | 0.359 | 2.92 | D 44.5 | | | | | 0.00 | 0.04 | 151 | |
| 171 | | 8.55 | 8.53 | 33.998 | 26.407 | 164.3 | 0.395 | 2.32 | D 35.3 | | | | | 0.00 | 0.03 | 172 | |
| 199 | | 8.36 | 8.34 | 34.050 | 26.477 | 158.2 | 0.440 | 1.82 | 27.6 | | | | | 0.00 | 0.04 | 200 | |
| 200 | ISL | 8.38 | D 8.36 | 34.058 | D 26.480 | 157.9 | 0.441 | 1.75 | D 26.5 | | | | | | | 201 | |
| 233 | | 8.01 | 7.99 | 34.079 | 26.553 | 151.5 | 0.492 | 1.65 | D 24.8 | | | | | | | 234 | |
| 250 | ISL | 7.83 | D 7.81 | 34.088 | D 26.587 | 148.5 | 0.518 | 1.51 | D 22.6 | | | | | | | 252 | |
| 270 | | 7.47 | 7.44 | 34.090 | 26.640 | 143.5 | 0.547 | 1.37 | 20.4 | | | | | | | 272 | |
| 300 | ISL | 7.09 | D 7.06 | 34.115 | D 26.713 | 136.9 | 0.589 | 1.18 | D 17.4 | | | | | | | 302 | |
| 320 | | 6.98 | 6.95 | 34.134 | 26.744 | 134.3 | 0.616 | 0.98 | D 14.4 | | | | | | | 322 | |
| 381 | | 6.62 | 6.59 | 34.190 | 26.837 | 126.1 | 0.696 | 0.63 | 9.2 | | | | | | | 384 | |
| 400 | ISL | 6.50 | D 6.46 | 34.196 | D 26.858 | 124.3 | 0.719 | 0.62 | D 9.0 | | | | | | | 403 | |
| 441 | | 6.20 | 6.16 | 34.212 | 26.910 | 119.7 | 0.770 | 0.52 | D 7.5 | | | | | | | 444 | |
| 500 | ISL | 5.84 | D 5.80 | 34.252 | D 26.987 | 112.9 | 0.838 | 0.40 | D 5.7 | | | | | | | 504 | |
| 515 | | 5.78 | 5.74 | 34.252 | 26.995 | 112.3 | 0.855 | 0.35 | 5.0 | | | | | | | 519 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS:PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02:

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 70.0 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 12.37 | 12.37 | 33.197 | 25.119 | 283.4 | 0.000 | 6.13 | 100.9 | 7.0 | 0.66 | 5.1 | 0.16 | 0.45 | 0.39 | 0.11 | 0 | |
| 3 | 12.37 | 12.37 | 33.197 | 25.120 | 283.5 | 0.009 | 6.13 | 100.9 | 7.0 | 0.66 | 5.1 | 0.16 | 0.45 | 0.39 | 0.11 | 3 220 | |
| 9 | 12.37 | 12.37 | 33.198 | 25.120 | 283.5 | 0.026 | 6.17 | 101.6 | 6.6 | 0.65 | 5.1 | 0.16 | 0.49 | 0.41 | 0.11 | 9 219 | |
| 10 ISL | 12.37 D | 12.37 | 33.196 D | 25.119 | 283.7 | 0.028 | 6.17 | 101.6 | 6.6 | 0.65 | 5.1 | 0.16 | 0.49 | 0.41 | 0.11 | 10 | |
| 20 | 12.35 | 12.35 | 33.202 | 25.128 | 283.1 | 0.057 | 6.13 | 100.9 | 6.9 | 0.65 | 5.2 | 0.17 | 0.50 | 0.43 | 0.13 | 20 218 | |
| 30 ISL | 11.89 D | 11.89 | 33.260 D | 25.260 | 270.8 | 0.084 | 5.74 | 93.6 | 8.7 | 0.89 | 8.6 | 0.32 | 0.55 | 0.31 | 0.11 | 30 | |
| 31 | 11.88 | 11.88 | 33.261 | 25.262 | 270.6 | 0.087 | 5.73 | 93.4 | 8.9 | 0.91 | 8.9 | 0.34 | 0.55 | 0.30 | 0.11 | 31 217 | |
| 40 | 11.75 | 11.74 | 33.270 | 25.294 | 267.8 | 0.111 | 5.53 | 89.9 | 9.4 | 0.95 | 9.6 | 0.35 | 0.44 | 0.22 | 0.13 | 40 216 | |
| 50 ISL | 11.32 D | 11.31 | 33.309 D | 25.403 | 257.6 | 0.138 | 5.07 | 81.7 | 11.0 | 1.12 | 12.3 | 0.38 | 0.17 | 0.21 | 0.26 | 50 | |
| 51 | 11.28 | 11.27 | 33.319 | 25.418 | 256.2 | 0.140 | 5.19 | 83.6 | 11.2 | 1.14 | 12.6 | 0.38 | 0.14 | 0.21 | 0.27 | 51 215 | |
| 60 | 10.80 | 10.79 | 33.341 | 25.521 | 246.6 | 0.163 | 4.50 | 71.7 | 13.3 | 1.31 | 15.6 | 0.14 | 0.04 | 0.17 | 0.26 | 60 214 | |
| 70 | 10.50 | 10.49 | 33.394 | 25.615 | 237.9 | 0.187 | 4.14 | 65.6 | 15.9 | 1.49 | 18.4 | 0.08 | 0.01 | 0.14 | 0.26 | 70 213 | |
| 75 ISL | 10.21 D | 10.20 | 33.488 D | 25.738 | 226.2 | 0.199 | 3.76 | 59.2 | 17.2 | 1.57 | 19.6 | 0.07 | 0.01 | 0.14 | 0.30 | 75 | |
| 85 | 10.02 | 10.01 | 33.522 | 25.797 | 220.9 | 0.221 | 3.50 | 54.9 | 20.0 | 1.72 | 21.9 | 0.05 | 0.00 | 0.12 | 0.36 | 85 212 | |
| 100 | 9.47 | 9.46 | 33.672 | 26.005 | 201.3 | 0.253 | 3.13 | 48.5 | 24.9 | 1.93 | 25.7 | 0.02 | 0.00 | 0.04 | 0.19 | 101 211 | |
| 119 | 9.11 | 9.10 | 33.799 | 26.163 | 186.7 | 0.289 | 2.76 | 42.5 | 28.6 | 2.05 | 27.3 | 0.01 | 0.00 | 0.01 | 0.13 | 120 210 | |
| 125 ISL | 9.03 D | 9.02 | 33.838 D | 26.206 | 182.6 | 0.301 | 2.75 | 42.3 | 29.6 | 2.04 | 27.5 | 0.01 | 0.00 | 0.01 | 0.14 | 126 | |
| 140 | 8.41 | 8.40 | 33.870 | 26.327 | 171.2 | 0.327 | 2.90 | 44.0 | 32.0 | 2.03 | 27.8 | 0.00 | 0.00 | 0.01 | 0.16 | 141 209 | |
| 150 ISL | 8.79 D | 8.77 | 34.000 D | 26.371 | 167.4 | 0.344 | 2.09 | 32.0 | 33.5 | 2.10 | 28.7 | 0.00 | 0.00 | 0.01 | 0.15 | 151 | |
| 172 | 8.60 | 8.58 | 34.029 | 26.423 | 162.8 | 0.380 | 1.95 | 29.7 | 36.5 | 2.31 | 30.8 | 0.00 | 0.00 | 0.01 | 0.11 | 173 208 | |
| 200 | 8.37 | 8.35 | 34.069 | 26.490 | 156.9 | 0.425 | 1.65 | 25.0 | 40.2 | 2.44 | 32.1 | 0.00 | 0.00 | 0.00 | 0.07 | 201 207 | |
| 229 | 8.04 | 8.02 | 34.088 | 26.555 | 151.2 | 0.470 | 1.58 | 23.8 | 43.3 | 2.50 | 33.0 | 0.00 | 0.00 | | 230 206 | | |
| 250 ISL | 7.73 D | 7.71 | 34.098 D | 26.609 | 146.3 | 0.501 | 1.48 | 22.1 | 45.8 | 2.52 | 33.6 | 0.00 | 0.00 | | 252 | | |
| 271 | 7.57 | 7.54 | 34.099 | 26.633 | 144.3 | 0.532 | 1.41 | 21.0 | 48.5 | 2.55 | 34.3 | 0.00 | 0.00 | | 273 205 | | |
| 300 ISL | 7.20 D | 7.17 | 34.108 D | 26.693 | 138.9 | 0.573 | 1.31 | 19.3 | 53.0 | 2.66 | 35.5 | 0.00 | 0.00 | | 302 | | |
| 319 | 7.15 | 7.12 | 34.141 | 26.726 | 136.1 | 0.599 | 1.04 | 15.3 | 56.0 | 2.74 | 36.3 | 0.00 | 0.00 | | 321 204 | | |
| 381 | 6.68 | 6.64 | 34.179 | 26.820 | 127.7 | 0.681 | 0.71 | 10.4 | 64.2 | 2.86 | 38.1 | 0.00 | 0.00 | | 384 203 | | |
| 400 ISL | 6.55 D | 6.51 | 34.183 D | 26.841 | 126.0 | 0.705 | 0.71 | 10.3 | 66.1 | 2.90 | 38.5 | 0.00 | 0.00 | | 403 | | |
| 441 | 6.29 | 6.25 | 34.203 | 26.891 | 121.6 | 0.755 | 0.59 | 8.5 | 70.5 | 2.97 | 39.3 | 0.00 | 0.00 | | 444 202 | | |
| 500 ISL | 5.79 D | 5.75 | 34.231 D | 26.977 | 113.8 | 0.825 | 0.46 | 6.6 | 79.5 | 3.04 | 40.7 | 0.00 | 0.00 | | 504 | | |
| 515 | 5.66 | 5.62 | 34.235 D | 26.996 | 112.0 | 0.842 | 0.37 | 5.3 | 81.8 | 3.06 | 41.1 | 0.00 | 0.00 | | 519 201 | | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 70.0 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 | 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 | 14.05 | 14.05 | 32.800 | 24.478 | 344.5 | 0.000 | 5.96 | 101.4 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 0 | |
| 3 | 14.05 | 14.05 | 32.800 | 24.478 | 344.6 | 0.010 | 5.96 | 101.4 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 3 220 | |
| 10 | 14.05 | 14.05 | 32.800 | 24.478 | 344.7 | 0.034 | 5.95 | 101.2 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 10 219 | |
| 19 | 14.05 | 14.05 | 32.801 | 24.479 | 344.9 | 0.065 | 5.97 | 101.6 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 19 218 | |
| 20 ISL | 14.05 D | 14.05 | 32.799 D | 24.478 | 345.1 | 0.069 | 5.99 | 101.9 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 20 | |
| 30 | 14.05 | 14.05 | 32.801 | 24.479 | 345.2 | 0.103 | 5.99 | 101.9 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.25 | 0.08 | 30 217 | |
| 40 | 14.05 | 14.04 | 32.802 | 24.480 | 345.3 | 0.138 | 5.96 | 101.4 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.25 | 0.08 | 40 216 | |
| 48 | 13.92 | 13.91 | 32.814 | 24.517 | 342.1 | 0.165 | 5.98 | 101.5 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.43 | 0.15 | 48 215 | |
| 50 ISL | 13.85 D | 13.84 | 32.830 D | 24.544 | 339.6 | 0.172 | 6.02 | 102.0 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.44 | 0.16 | 50 | |
| 60 | 13.79 | 13.78 | 32.821 | 24.549 | 339.4 | 0.206 | 6.02 | 101.9 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.52 | 0.20 | 60 214 | |
| 71 | 13.66 | 13.65 | 32.812 | 24.569 | 337.8 | 0.243 | 6.00 | 101.2 | 1.8 | 0.33 | 0.1 | 0.00 | 0.05 | 0.47 | 0.20 | 71 213 | |
| 75 ISL | 13.36 D | 13.35 | 32.841 D | 24.652 | 329.9 | 0.257 | 5.96 | 100.0 | 2.2 | 0.38 | 0.8 | 0.04 | 0.04 | 0.39 | 0.18 | 75 | |
| 86 | 12.40 | 12.39 | 32.913 | 24.896 | 306.9 | 0.292 | 5.70 | 93.7 | 3.9 | 0.57 | 3.5 | 0.14 | 0.00 | 0.17 | 0.13 | 86 212 | |
| 100 ISL | 11.02 D | 11.01 | 33.012 D | 25.227 | 275.5 | 0.333 | 5.42 | 86.6 | 6.5 | 0.80 | 7.4 | 0.01 | 0.00 | 0.07 | 0.08 | 100 | |
| 101 | 11.02 | 11.01 | 33.010 | 25.225 | 275.7 | 0.335 | 5.44 | 86.9 | 6.7 | 0.82 | 7.7 | 0.00 | 0.00 | 0.07 | 0.08 | 101 211 | |
| 121 | 9.82 | 9.81 | 33.328 | 25.679 | 232.7 | 0.386 | 4.52 | 70.5 | 15.1 | 1.36 | 16.8 | 0.00 | 0.00 | 0.01 | 0.03 | 122 210 | |
| 125 ISL | 9.61 D | 9.60 | 33.395 D | 25.766 | 224.5 | 0.395 | 4.35 | 67.5 | 16.7 | 1.45 | 18.2 | 0.00 | 0.00 | 0.01 | 0.03 | 126 | |
| 141 | 9.29 | 9.27 | 33.595 | 25.975 | 205.0 | 0.430 | 3.70 | 57.1 | 22.3 | 1.72 | 22.7 | 0.00 | 0.00 | 0.01 | 0.02 | 142 209 | |
| 150 ISL | 9.10 D | 9.08 | 33.692 D | 26.081 | 195.0 | 0.448 | 3.68 | 56.6 | 24.4 | 1.80 | 24.0 | 0.00 | 0.00 | 0.01 | 0.04 | 151 | |
| 170 | 8.85 | 8.83 | 33.826 | 26.226 | 181.6 | 0.485 | 3.28 | 50.2 | 27.8 | 1.87 | 25.4 | 0.00 | 0.00 | 0.01 | 0.08 | 171 208 | |
| 199 | 8.58 | 8.56 | 33.941 | 26.358 | 169.5 | 0.536 | 3.17 | 48.3 | 31.4 | 1.90 | 26.1 | 0.00 | 0.00 | 0.00 | 0.02 | 200 207 | |
| 200 ISL | 8.56 D | 8.54 | 33.960 D | 26.376 | 167.8 | 0.538 | 2.88 | 43.8 | 31.6 | 1.91 | 26.2 | 0.00 | 0.00 | | 201 | | |
| 230 | 8.32 | 8.30 | 34.012 | 26.454 | 160.9 | 0.587 | 2.26 | 34.2 | 37.4 | 2.24 | 30.4 | 0.00 | 0.00 | | 231 206 | | |
| 250 ISL | 8.41 D | 8.38 | 34.086 D | 26.499 | 157.1 | 0.619 | 1.82 | 27.6 | 40.3 | 2.34 | 31.6 | 0.00 | 0.00 | | 251 | | |
| 272 | 7.98 | 7.95 | 34.067 | 26.548 | 152.6 | 0.653 | 1.77 | 26.6 | 43.2 | 2.42 | 32.3 | 0.00 | 0.00 | | 274 205 | | |
| 300 ISL | 7.77 D | 7.74 | 34.126 D | 26.626 | 145.6 | 0.695 | 1.32 | 19.7 | 47.7 | 2.57 | 33.9 | 0.00 | 0.00</ | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 50.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|--------|--------|-------|--------|------|------|
| 35 38.4 N | 121 15.8 W | 29/01/11 | 0743 | UTC | 43 m | 260 | 13 kn | | | 1018.1 mb | 11.8 C | 10.0 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | 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 | 11.85 | 11.85 | 33.358 | 25.343 | 262.2 | 0.000 | 5.61 | 91.5 | 11.5 | 0.97 | 10.0 | 0.26 | 0.66 | 1.72 | 0.50 | 0 | |
| 2 | 11.85 | 11.85 | 33.358 | 25.343 | 262.2 | 0.005 | 5.61 | 91.5 | 11.5 | 0.97 | 10.0 | 0.26 | 0.66 | 1.72 | 0.50 | 2 | 205 |
| 5 | 11.80 | 11.80 | 33.369 | 25.361 | 260.6 | 0.013 | 5.48 | 89.3 | 12.3 | 1.02 | 10.7 | 0.26 | 0.27 | 1.69 | 0.50 | 5 | 204 |
| 10 | 11.48 | 11.48 | 33.424 | 25.462 | 251.0 | 0.026 | 5.00 | 80.9 | 14.6 | 1.18 | 12.9 | 0.27 | 0.26 | 1.37 | 0.58 | 10 | 203 |
| 20 | 11.24 | 11.24 | 33.464 | 25.537 | 244.1 | 0.051 | 4.60 | 74.1 | 16.2 | 1.27 | 14.5 | 0.28 | 0.20 | 0.89 | 0.57 | 20 | 202 |
| 30 | 11.10 | 11.10 | 33.487 | 25.581 | 240.2 | 0.075 | 4.33 | 69.5 | 17.7 | 1.36 | 16.0 | 0.27 | 0.14 | 0.62 | 0.52 | 30 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-------|------|-----------|--------|-------|--------|-------|--------|------|------|
| 35 28.7 N | 121 36.6 W | 29/01/11 | 1101 | UTC | 990 m | 250 | 13 kn | | | 1017.6 mb | 11.3 C | 9.6 C | | | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | 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 | 12.93 | 12.93 | 33.117 | 24.949 | 299.6 | 0.000 | 6.13 | 102.1 | 3.9 | 0.47 | 3.0 | 0.11 | 0.09 | 0.68 | 0.23 | 0 | |
| 3 | 12.93 | 12.93 | 33.117 | 24.949 | 299.7 | 0.009 | 6.13 | 102.1 | 3.9 | 0.47 | 3.0 | 0.11 | 0.09 | 0.68 | 0.23 | 3 | 220 |
| 10 | 12.94 | 12.94 | 33.118 | 24.948 | 300.0 | 0.030 | 6.13 | 102.1 | 3.9 | 0.46 | 3.0 | 0.11 | 0.06 | 0.66 | 0.22 | 10 | 219 |
| 20 | 12.93 | 12.93 | 33.118 | 24.950 | 300.0 | 0.060 | 6.13 | 102.1 | 3.9 | 0.45 | 3.0 | 0.12 | 0.06 | 0.67 | 0.26 | 20 | 218 |
| 30 | 12.85 | 12.85 | 33.119 | 24.967 | 298.7 | 0.090 | 6.12 | 101.7 | 4.2 | 0.48 | 3.5 | 0.12 | 0.10 | 0.63 | 0.24 | 30 | 217 |
| 39 | 12.63 | 12.62 | 33.154 | 25.037 | 292.3 | 0.117 | 6.08 | 100.6 | 4.7 | 0.55 | 4.4 | 0.14 | 0.26 | 0.52 | 0.22 | 39 | 216 |
| 50 | 12.12 | 12.11 | 33.170 | 25.147 | 282.0 | 0.148 | 5.67 | 92.9 | 6.1 | 0.73 | 7.0 | 0.29 | 0.26 | 0.34 | 0.23 | 50 | 215 |
| 62 | 11.30 | 11.29 | 33.220 | 25.338 | 264.1 | 0.181 | 5.26 | 84.7 | 8.8 | 0.97 | 11.2 | 0.08 | 0.00 | 0.18 | 0.15 | 62 | 214 |
| 70 | 10.62 | 10.61 | 33.370 | 25.575 | 241.6 | 0.201 | 4.29 | 68.1 | 14.6 | 1.39 | 17.7 | 0.01 | 0.00 | 0.10 | 0.11 | 70 | 213 |
| 75 ISL | 10.17 D | 10.16 D | 33.511 D | 25.762 | 223.9 | 0.213 | 3.75 | 59.0 | 17.8 | 1.56 | 20.4 | 0.01 | 0.00 | 0.06 | 0.10 | 75 | |
| 85 | 9.74 | 9.73 | 33.616 | 25.917 | 209.4 | 0.234 | 3.32 | 51.8 | 22.7 | 1.76 | 23.8 | 0.00 | 0.00 | 0.02 | 0.09 | 85 | 212 |
| 99 | 9.69 | 9.68 | 33.750 | 26.030 | 198.9 | 0.263 | 2.84 | 44.3 | 25.8 | 1.91 | 25.4 | 0.00 | 0.00 | 0.01 | 0.08 | 100 | 211 |
| 100 ISL | 9.69 D | 9.68 D | 33.750 D | 26.030 | 199.0 | 0.265 | 2.65 | 44.4 | 25.9 | 1.92 | 25.5 | 0.00 | 0.00 | 0.01 | 0.08 | 101 | |
| 120 | 9.52 | 9.51 | 33.818 | 26.111 | 191.6 | 0.304 | 2.68 | 41.6 | 27.6 | 1.99 | 26.3 | 0.00 | 0.00 | 0.01 | 0.08 | 121 | 210 |
| 125 ISL | 9.28 D | 9.27 D | 33.891 D | 26.208 | 182.6 | 0.313 | 2.60 | 40.2 | 28.3 | 2.00 | 26.6 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | |
| 139 | 9.20 | 9.18 | 33.911 | 26.236 | 180.1 | 0.339 | 2.52 | 38.9 | 30.2 | 2.03 | 27.4 | 0.00 | 0.00 | 0.00 | 0.07 | 140 | 209 |
| 150 ISL | 9.17 D | 9.15 D | 33.924 D | 26.251 | 178.9 | 0.359 | 2.52 | 38.9 | 31.3 | 2.06 | 28.0 | 0.00 | 0.00 | 0.00 | 0.06 | 151 | |
| 170 | 8.76 | 8.74 | 33.960 | 26.345 | 170.3 | 0.393 | 2.39 | 36.5 | 33.0 | 2.11 | 29.0 | 0.00 | 0.00 | 0.00 | 0.05 | 171 | 208 |
| 200 ISL | 8.25 D | 8.23 D | 34.003 D | 26.457 | 160.0 | 0.443 | 2.34 | 35.4 | 36.5 | 2.16 | 29.9 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | |
| 201 | 8.29 | 8.27 | 34.001 | 26.449 | 160.8 | 0.445 | 2.37 | 35.9 | 36.6 | 2.16 | 29.9 | 0.00 | 0.00 | 0.00 | 0.05 | 202 | 207 |
| 230 | 7.91 | 7.89 | 34.035 | 26.533 | 153.2 | 0.490 | 2.10 | 31.5 | 41.4 | 2.28 | 31.6 | 0.00 | 0.00 | 0.00 | 0.00 | 231 | 206 |
| 250 ISL | 7.56 D | 7.54 D | 34.063 D | 26.606 | 146.5 | 0.520 | 1.78 | 26.5 | 46.1 | 2.42 | 33.3 | 0.00 | 0.00 | 0.00 | 0.05 | 252 | |
| 269 | 7.34 | 7.31 | 34.085 | 26.655 | 142.1 | 0.548 | 1.48 | 21.9 | 50.5 | 2.56 | 34.9 | 0.00 | 0.00 | 0.00 | 0.00 | 271 | 205 |
| 300 ISL | 7.14 D | 7.11 D | 34.105 D | 26.699 | 138.3 | 0.591 | 1.30 | 19.2 | 55.0 | 2.66 | 36.3 | 0.00 | 0.00 | 0.00 | 0.00 | 302 | |
| 320 | 6.88 | 6.85 | 34.102 | 26.732 | 135.3 | 0.618 | 1.16 | 17.0 | 57.4 | 2.70 | 36.9 | 0.00 | 0.00 | 0.00 | 0.00 | 322 | 204 |
| 380 | 6.30 | 6.27 | 34.106 | 26.812 | 128.1 | 0.697 | 1.02 | 14.7 | 65.4 | 2.82 | 38.6 | 0.00 | 0.00 | 0.00 | 0.00 | 383 | 203 |
| 400 ISL | 6.13 D | 6.09 D | 34.123 D | 26.848 | 124.9 | 0.723 | 0.91 | 13.1 | 68.9 | 2.88 | 39.3 | 0.00 | 0.00 | 0.00 | 0.00 | 403 | |
| 439 | 5.83 | 5.79 | 34.162 | 26.917 | 118.7 | 0.770 | 0.67 | 9.6 | 75.4 | 3.00 | 40.4 | 0.00 | 0.00 | 0.00 | 0.00 | 442 | 202 |
| 500 ISL | 5.84 D | 5.80 D | 34.259 D | 26.993 | 112.3 | 0.841 | 0.40 | 5.7 | 80.4 | 3.09 | 41.0 | 0.00 | 0.00 | 0.00 | 0.00 | 504 | |
| 517 | 5.71 | 5.67 | 34.257 | 27.007 | 111.0 | 0.860 | 0.38 | 5.4 | 81.8 | 3.12 | 41.2 | 0.00 | 0.00 | 0.00 | 0.00 | 521 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|--------|--------|-----------|------|-----------|--------|--------|--------|-------|--------|------|------|
| 35 18.6 N | 121 58.0 W | 29/01/11 | 1514 | UTC | 2503 m | 270 | 19 kn | 330 06 05 | WEA | 1018.1 mb | 11.7 C | 10.7 C | | 8/8 | SC | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | 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 | 12.65 | 12.65 | 33.155 | 25.033 | 291.6 | 0.000 | 6.20 | 102.7 | 5.1 | 0.57 | 3.7 | 0.09 | 0.14 | 0.85 | 0.29 | 0 | |
| 2 | 12.65 | 12.65 | 33.155 | 25.033 | 291.7 | 0.006 | 6.20 | 102.7 | 5.1 | 0.57 | 3.7 | 0.09 | 0.14 | 0.85 | 0.29 | 2 | 220 |
| 10 ISL | 12.65 D | 12.65 D | 33.153 D | 25.032 | 292.0 | 0.029 | 6.22 | 103.0 | 5.1 | 0.56 | 3.7 | 0.09 | 0.13 | 0.83 | 0.23 | 10 | |
| 11 | 12.65 | 12.65 | 33.155 | 25.033 | 291.9 | 0.032 | 6.20 | 102.7 | 5.1 | 0.56 | 3.7 | 0.09 | 0.13 | 0.83 | 0.22 | 11 | 219 |
| 20 | 12.65 | 12.65 | 33.154 | 25.033 | 292.2 | 0.058 | 6.21 | 102.8 | 5.1 | 0.56 | 3.7 | 0.09 | 0.14 | 0.87 | 0.25 | 20 | 218 |
| 30 ISL | 12.63 D | 12.63 D | 33.156 D | 25.038 | 291.9 | 0.088 | 6.17 | 102.1 | 5.1 | 0.57 | 3.9 | 0.10 | 0.17 | 0.83 | 0.24 | 30 | |
| 31 | 12.64 | 12.64 | 33.156 | 25.036 | 292.1 | 0.091 | 6.17 | 102.2 | 5.1 | 0.57 | 3.9 | 0.10 | 0.17 | 0.83 | 0.24 | 31 | 217 |
| 39 | 12.39 | 12.38 | 33.174 | 25.099 | 286.4 | 0.114 | 5.92 | 97.5 | 5.5 | 0.69 | 5.4 | 0.17 | 0.34 | 0.60 | 0.33 | 39 | 216 |
| 49 | 11.05 | 11.04 | 33.228 | 25.388 | 259.0 | 0.141 | 5.09 | 81.5 | 10.5 | 1.11 | 12.3 | 0.10 | 0.00 | 0.25 | 0.18 | 49 | 215 |
| 50 ISL | 10.90 D | 10.89 D | 33.260 D | 25.440 | 254.0 | 0.143 | 4.94 | 78.9 | 11.3 | 1.16 | 13.0 | 0.09 | 0.00 | 0.23 | 0.17 | 50 | |
| 60 | 9.54 | 9.53 | 33.339 | 25.733 | 226.3 | 0.167 | 4.29 | 66.5 | 18.3 | 1.53 | 18.9 | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.72 | 12.72 | 33.155 | 25.019 | 292.9 | 0.000 | 6.14 | 101.8 | 4.8 | 0.58 | 4.0 | 0.13 | 0.18 | 0.63 | 0.18 | 0 | |
| 2 | 12.72 | 12.72 | 33.155 | 25.019 | 293.0 | 0.006 | 6.14 | 101.8 | 4.8 | 0.58 | 4.0 | 0.13 | 0.18 | 0.63 | 0.18 | 2 | 220 |
| 10 ISL | 12.65 D | 12.65 | 33.157 D | 25.035 | 291.7 | 0.029 | 6.15 | 101.8 | 4.8 | 0.59 | 4.2 | 0.14 | 0.22 | 0.63 | 0.20 | 10 | |
| 11 | 12.63 | 12.63 | 33.164 | 25.044 | 290.9 | 0.032 | 6.14 | 101.6 | 4.8 | 0.59 | 4.2 | 0.14 | 0.23 | 0.63 | 0.20 | 11 | 219 |
| 20 ISL | 12.56 D | 12.56 | 33.161 D | 25.056 | 290.0 | 0.058 | 6.14 | 101.5 | 4.9 | 0.60 | 4.3 | 0.15 | 0.27 | 0.67 | 0.27 | 20 | |
| 21 | 12.56 | 12.56 | 33.163 | 25.057 | 289.9 | 0.061 | 6.12 | 101.2 | 4.9 | 0.60 | 4.3 | 0.15 | 0.28 | 0.67 | 0.28 | 21 | 218 |
| 30 ISL | 12.50 D | 12.50 | 33.188 D | 25.088 | 287.1 | 0.087 | 6.00 | 99.1 | 5.3 | 0.65 | 4.9 | 0.19 | 0.42 | 0.63 | 0.29 | 30 | |
| 31 | 12.52 | 12.52 | 33.191 | 25.087 | 287.3 | 0.090 | 5.92 | 97.8 | 5.4 | 0.66 | 5.0 | 0.20 | 0.43 | 0.63 | 0.29 | 31 | 217 |
| 41 | 11.91 | 11.90 | 33.281 | 25.273 | 269.9 | 0.118 | 4.87 | 79.5 | 8.7 | 1.01 | 10.5 | 0.33 | 0.10 | 0.30 | 0.24 | 41 | 216 |
| 50 | 10.77 | 10.76 | 33.479 | 25.633 | 235.7 | 0.141 | 4.00 | 63.8 | 15.5 | 1.56 | 19.1 | 0.03 | 0.00 | 0.09 | 0.15 | 50 | 215 |
| 61 | 10.32 | 10.31 | 33.533 | 25.754 | 224.4 | 0.166 | 3.53 | 55.7 | 19.1 | 1.70 | 21.6 | 0.02 | 0.00 | 0.05 | 0.13 | 61 | 214 |
| 70 | 9.96 | 9.95 | 33.597 | 25.865 | 214.0 | 0.186 | 3.27 | 51.2 | 21.9 | 1.83 | 23.8 | 0.01 | 0.00 | 0.04 | 0.12 | 70 | 213 |
| 75 ISL | 9.76 D | 9.75 | 33.674 D | 25.958 | 205.2 | 0.196 | 3.03 | 47.3 | 23.5 | 1.90 | 24.9 | 0.01 | 0.00 | 0.03 | 0.12 | 75 | |
| 85 | 9.59 | 9.58 | 33.722 | 26.024 | 199.2 | 0.216 | 2.74 | 42.6 | 26.1 | 2.01 | 26.6 | 0.01 | 0.00 | 0.01 | 0.12 | 85 | 212 |
| 100 | 9.29 | 9.28 | 33.784 | 26.122 | 190.2 | 0.246 | 2.70 | 41.7 | 28.0 | 2.04 | 27.0 | 0.01 | 0.00 | 0.01 | 0.11 | 101 | 211 |
| 120 | 8.80 | 8.79 | 33.873 | 26.269 | 176.5 | 0.282 | 2.57 | 39.3 | 31.5 | 2.11 | 28.3 | 0.00 | 0.00 | 0.00 | 0.07 | 121 | 210 |
| 125 ISL | 8.72 D | 8.71 | 33.909 D | 26.310 | 172.7 | 0.291 | 2.47 | 37.7 | 32.0 | 2.11 | 28.3 | 0.00 | 0.00 | 0.00 | 0.07 | 126 | |
| 139 | 8.38 | 8.37 | 33.918 | 26.370 | 167.2 | 0.315 | 2.77 | 42.0 | 33.4 | 2.09 | 28.2 | 0.00 | 0.00 | 0.00 | 0.06 | 140 | 209 |
| 150 ISL | 8.07 D | 8.05 | 33.954 D | 26.444 | 160.2 | 0.333 | 2.84 | 42.7 | 35.0 | 2.10 | 28.5 | 0.00 | 0.00 | 0.00 | 0.06 | 151 | |
| 169 | 7.75 | 7.73 | 33.960 | 26.496 | 155.5 | 0.363 | 2.74 | 40.9 | 38.1 | 2.13 | 29.3 | 0.00 | 0.00 | 0.00 | 0.06 | 170 | 208 |
| 200 ISL | 7.49 D | 7.47 | 34.011 D | 26.574 | 148.6 | 0.410 | 2.16 | 32.1 | 42.6 | 2.26 | 31.2 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | |
| 201 | 7.44 | 7.42 | 33.979 | 26.556 | 150.3 | 0.411 | 2.12 | 31.5 | 42.7 | 2.27 | 31.3 | 0.00 | 0.00 | 0.00 | 0.05 | 202 | 207 |
| 230 | 7.29 | 7.27 | 34.022 | 26.611 | 145.5 | 0.454 | 1.66 | 24.5 | 47.2 | 2.42 | 33.2 | 0.00 | 0.00 | 0.00 | 0.00 | 231 | 206 |
| 250 ISL | 7.33 D | 7.31 | 34.077 D | 26.649 | 142.2 | 0.483 | 1.46 | 21.6 | 50.2 | 2.53 | 34.4 | 0.00 | 0.00 | 0.00 | 0.00 | 252 | |
| 270 | 7.25 | 7.22 | 34.109 | 26.686 | 139.1 | 0.511 | 1.23 | 18.2 | 53.1 | 2.64 | 35.4 | 0.00 | 0.00 | 0.00 | 0.00 | 272 | 205 |
| 300 ISL | 7.07 D | 7.04 | 34.140 D | 26.736 | 134.8 | 0.552 | 0.93 | 13.7 | 57.8 | 2.77 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | 302 | |
| 321 | 7.01 | 6.98 | 34.188 | 26.782 | 130.7 | 0.580 | 0.69 | 10.1 | 61.0 | 2.85 | 37.1 | 0.00 | 0.00 | 0.00 | 0.00 | 323 | 204 |
| 381 | 6.53 | 6.50 | 34.214 | 26.868 | 123.1 | 0.656 | 0.55 | 8.0 | 68.4 | 2.96 | 38.5 | 0.00 | 0.00 | 0.00 | 0.00 | 384 | 203 |
| 400 ISL | 6.41 D | 6.37 | 34.222 D | 26.890 | 121.2 | 0.679 | 0.48 | 7.0 | 70.4 | 2.99 | 38.9 | 0.00 | 0.00 | 0.00 | 0.00 | 403 | |
| 441 | 6.17 | 6.13 | 34.235 | 26.932 | 117.7 | 0.728 | 0.41 | 5.9 | 74.8 | 3.06 | 39.6 | 0.00 | 0.00 | 0.00 | 0.00 | 444 | 202 |
| 500 ISL | 5.70 D | 5.66 | 34.257 D | 27.008 | 110.7 | 0.796 | 0.31 | 4.4 | 81.8 | 3.14 | 40.8 | 0.00 | 0.00 | 0.00 | 0.00 | 504 | |
| 515 | 5.66 | 5.62 | 34.263 | 27.018 | 109.9 | 0.812 | 0.30 | 4.3 | 83.6 | 3.16 | 41.1 | 0.00 | 0.00 | 0.00 | 0.00 | 519 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.59 | 12.59 | 33.194 | 25.075 | 287.7 | 0.000 | 6.08 | 100.6 | 5.1 | 0.61 | 4.4 | 0.24 | 0.29 | 0.57 | 0.19 | 0 | |
| 3 | 12.59 | 12.59 | 33.194 | 25.075 | 287.7 | 0.009 | 6.08 | 100.6 | 5.1 | 0.61 | 4.4 | 0.24 | 0.29 | 0.57 | 0.19 | 3 | 220 |
| 10 ISL | 12.58 | 12.58 | 33.194 | 25.077 | 287.7 | 0.029 | 6.08 | 100.6 | 5.2 | 0.62 | 4.5 | 0.23 | 0.35 | 0.56 | 0.23 | 10 | 219 |
| 20 ISL | 12.53 | 12.53 | 33.194 | 25.087 | 287.0 | 0.058 | 6.04 | 99.8 | 5.3 | 0.65 | 4.7 | 0.20 | 0.54 | 0.50 | 0.18 | 20 | 218 |
| 30 ISL | 12.51 | 12.51 | 33.196 | 25.093 | 286.7 | 0.086 | 6.08 | 100.4 | 5.3 | 0.65 | 4.7 | 0.20 | 0.54 | 0.48 | 0.16 | 30 | 217 |
| 40 | 12.48 | 12.47 | 33.202 | 25.103 | 286.0 | 0.115 | 5.93 | 97.9 | 5.4 | 0.68 | 5.1 | 0.27 | 0.55 | 0.32 | 0.22 | 40 | 216 |
| 50 | 11.79 | 11.78 | 33.256 | 25.276 | 269.8 | 0.143 | 5.23 | 85.1 | 8.3 | 0.96 | 10.0 | 0.19 | 0.00 | 0.16 | 0.20 | 50 | 215 |
| 60 | 10.93 | 10.92 | 33.443 | 25.577 | 241.2 | 0.168 | 4.02 | 64.3 | 14.4 | 1.44 | 17.7 | 0.00 | 0.00 | 0.07 | 0.43 | 60 | 214 |
| 70 | 10.05 | 10.04 | 33.575 | 25.833 | 217.1 | 0.191 | 3.50 | 54.9 | 20.9 | 1.74 | 22.4 | 0.00 | 0.00 | 0.02 | 0.18 | 70 | 213 |
| 75 ISL | 9.70 D | 9.69 | 33.668 D | 25.964 | 204.7 | 0.202 | 3.29 | 51.3 | 22.9 | 1.84 | 23.9 | 0.00 | 0.00 | 0.02 | 0.17 | 75 | |
| 85 | 9.53 | 9.52 | 33.695 | 26.013 | 200.2 | 0.222 | 2.97 | 46.1 | 25.6 | 1.97 | 25.8 | 0.00 | 0.00 | 0.02 | 0.14 | 85 | 212 |
| 100 | 9.19 | 9.18 | 33.785 | 26.139 | 188.6 | 0.251 | 2.75 | 42.4 | 28.7 | 2.05 | 27.3 | 0.00 | 0.00 | 0.01 | 0.13 | 101 | 211 |
| 120 | 8.99 | 8.98 | 33.922 | 26.278 | 175.7 | 0.287 | 2.30 | 35.3 | 32.3 | 2.17 | 29.1 | 0.00 | 0.00 | 0.01 | 0.09 | 121 | 210 |
| 125 ISL | 8.98 D | 8.97 | 33.942 D | 26.295 | 174.2 | 0.296 | 2.25 | 34.6 | 32.9 | 2.19 | 29.3 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | |
| 140 | 8.78 | 8.77 | 33.985 | 26.361 | 168.2 | 0.322 | 2.11 | 32.3 | 34.4 | 2.24 | 29.9 | 0.00 | 0.00 | 0.00 | 0.07 | 141 | 209 |
| 150 ISL | 8.60 D | 8.58 | 34.018 D | 26.415 | 163.2 | 0.338 | 2.07 | 31.5 | 35.6 | 2.28 | 30.3 | 0.00 | 0.00 | 0.00 | 0.06 | 151 | |
| 170 | 8.46 | 8.44 | 34.044 | 26.457 | 159.6 | 0.371 | 1.88 | 28.6 | 38.3 | 2.35 | 31.2 | 0.00 | 0.00 | 0.00 | 0.05 | 171 | 208 |
| 200 | 8.05 | 8.03 | 34.071 | 26.540 | 152.1 | 0.417 | 1.71 | 25.7 | 42.7 | 2.44 | 32.4 | 0.00 | 0.00 | 0.00 | 0.04 | 201 | 207 |
| 230 | 7.72 | 7.70 | 34.090 | 26.604 | 146.4 | 0.462 | 1.53 | 22.9 | 47.3 | 2.54 | 33.9 | 0.00 | 0.00 | 0.00 | 0.00 | 231 | 206 |
| 250 ISL | 7.54 D | 7.52 | 34.112 D | 26.647 | 142.6 | 0.491 | 1.31 | 19.5 | 50.0 | 2.63 | 34.8 | 0.00 | 0.00 | 0.00 | 0.00 | 252 | |
| 269 | 7.43 | 7.40 | 34.126 | 26.674 | 140.3 | 0.518 | 1.16 | 17.2 | 52.5 | 2.71 | 35.5 | 0.00 | 0.00 | 0.00 | 0.00 | 271 | 205 |
| 300 ISL | 7.26 D | 7.23 | 34.155 D | 26.721 | 136.2 | 0.561 | 0.97 | 14.3 | 57.3 | 2.79 | 36.7 | 0.00 | 0.00 | 0.00 | 0.00 | 302 | |
| 321 | 6.77 | 6.74 | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 73.3 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 | 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 | ug/l | ug/l | db | | |
| 0 ISL | 14.08 | 14.08 | 32.834 | 24.498 | 342.6 | 0.000 | 5.96 | 101.5 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.25 | 0.07 | 0 | |
| 2 | 14.08 | 14.08 | 32.834 | 24.498 | 342.6 | 0.007 | 5.96 | 101.5 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.25 | 0.07 | 2 | 220 |
| 9 | 14.08 | 14.08 | 32.833 | 24.497 | 342.9 | 0.031 | 5.97 | 101.6 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 9 | 219 |
| 10 ISL | 14.09 | D 14.09 | 32.831 | D 24.494 | 343.3 | 0.034 | 6.00 | D 102.2 | 1.5 | 0.31 | 0.1 | 0.00 | 0.00 | 0.24 | 0.08 | 10 | |
| 20 | 14.09 | 14.09 | 32.833 | 24.496 | 343.4 | 0.069 | 5.97 | 101.7 | 1.6 | 0.31 | 0.1 | 0.00 | 0.00 | 0.25 | 0.07 | 20 | 218 |
| 30 ISL | 14.07 | D 14.07 | 32.832 | D 24.499 | 343.3 | 0.103 | 6.00 | D 102.1 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.25 | 0.07 | 30 | |
| 31 | 14.08 | 14.08 | 32.834 | 24.499 | 343.4 | 0.106 | 6.00 | D 102.2 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.25 | 0.07 | 31 | 217 |
| 39 | 14.03 | 14.02 | 32.834 | 24.509 | 342.6 | 0.134 | 5.99 | D 101.9 | 1.6 | 0.32 | 0.1 | 0.00 | 0.00 | 0.26 | 0.08 | 39 | 216 |
| 50 ISL | 13.65 | D 13.64 | 32.790 | D 24.553 | 338.7 | 0.171 | 6.04 | D 101.9 | 1.8 | 0.34 | 0.1 | 0.00 | 0.00 | 0.61 | 0.21 | 50 | |
| 51 | 13.66 | 13.65 | 32.791 | 24.552 | 338.8 | 0.175 | 6.00 | 101.2 | 1.8 | 0.34 | 0.1 | 0.00 | 0.00 | 0.64 | 0.22 | 51 | 215 |
| 59 | 13.49 | 13.48 | 32.802 | 24.595 | 334.9 | 0.202 | 5.99 | D 100.7 | 1.8 | 0.36 | 0.3 | 0.03 | 0.05 | 0.56 | 0.26 | 59 | 214 |
| 70 | 13.01 | 13.00 | 32.855 | 24.732 | 322.1 | 0.238 | 5.83 | 97.1 | 2.7 | 0.49 | 2.1 | 0.24 | 0.01 | 0.30 | 0.18 | 70 | 213 |
| 75 ISL | 12.61 | D 12.60 | 32.964 | D 24.895 | 306.7 | 0.253 | 5.70 | D 94.2 | 3.8 | 0.61 | 4.0 | 0.18 | 0.01 | 0.21 | 0.15 | 75 | |
| 85 | 11.43 | 11.42 | 33.079 | 25.205 | 277.3 | 0.283 | 5.28 | D 85.1 | 7.1 | 0.90 | 8.7 | 0.01 | 0.00 | 0.09 | 0.09 | 85 | 212 |
| 100 | 10.69 | 10.68 | 33.331 | 25.533 | 246.3 | 0.322 | 4.37 | 69.5 | 14.1 | 1.38 | 16.6 | 0.00 | 0.00 | 0.05 | 0.06 | 100 | 211 |
| 118 | 10.14 | 10.13 | 33.710 | 25.924 | 209.5 | 0.363 | 2.70 | 42.5 | 24.0 | 2.01 | 25.5 | 0.00 | 0.00 | 0.01 | 0.05 | 119 | 210 |
| 125 ISL | 9.82 | D 9.81 | 33.861 | D 26.096 | 193.3 | 0.377 | 2.07 | D 32.4 | 27.1 | 2.14 | 27.4 | 0.00 | 0.00 | 0.01 | 0.05 | 126 | |
| 140 | 9.56 | 9.54 | 33.912 | 26.179 | 185.7 | 0.406 | 1.86 | 28.9 | 32.0 | 2.28 | 29.5 | 0.00 | 0.00 | 0.00 | 0.04 | 141 | 209 |
| 150 ISL | 9.49 | D 9.47 | 33.929 | D 26.204 | 183.5 | 0.424 | 1.84 | D 28.6 | 32.4 | 2.29 | 29.7 | 0.00 | 0.00 | 0.00 | 0.04 | 151 | |
| 169 | 9.42 | 9.40 | 33.948 | 26.230 | 181.4 | 0.459 | 1.76 | D 27.3 | 33.3 | 2.32 | 30.0 | 0.00 | 0.00 | 0.00 | 0.03 | 170 | 208 |
| 199 | 9.30 | 9.28 | 33.978 | 26.274 | 177.8 | 0.513 | 1.65 | 25.5 | 34.4 | 2.34 | 30.4 | 0.00 | 0.00 | 0.00 | 0.03 | 200 | 207 |
| 200 ISL | 9.29 | D 9.27 | 33.980 | D 26.277 | 177.5 | 0.514 | 1.67 | D 25.8 | 34.4 | 2.34 | 30.4 | 0.00 | 0.00 | | | 201 | |
| 229 | 9.12 | 9.09 | 34.022 | 26.338 | 172.3 | 0.565 | 1.58 | D 24.4 | 36.1 | 2.39 | 31.0 | 0.00 | 0.00 | | | 230 | 206 |
| 250 ISL | 9.02 | D 8.99 | 34.045 | D 26.372 | 169.5 | 0.601 | 1.53 | D 23.5 | 37.6 | 2.42 | 31.4 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.87 | 8.84 | 34.076 | 26.420 | 165.2 | 0.634 | 1.43 | 21.9 | 39.2 | 2.45 | 31.7 | 0.00 | 0.00 | | | 272 | 205 |
| 300 ISL | 8.76 | D 8.73 | 34.151 | D 26.497 | 158.5 | 0.683 | 1.20 | D 18.4 | 41.3 | 2.54 | 32.2 | 0.00 | 0.00 | | | 302 | |
| 322 | 8.73 | 8.70 | 34.185 | 26.528 | 155.9 | 0.718 | 1.05 | D 16.1 | 42.9 | 2.61 | 32.6 | 0.00 | 0.00 | | | 324 | 204 |
| 381 | 8.28 | 8.24 | 34.217 | 26.623 | 147.8 | 0.807 | 0.97 | 14.7 | 47.3 | 2.65 | 33.4 | 0.00 | 0.00 | | | 383 | 203 |
| 400 ISL | 8.04 | D 8.00 | 34.200 | D 26.646 | 145.7 | 0.835 | 1.01 | D 15.2 | 49.7 | 2.67 | 34.2 | 0.00 | 0.00 | | | 403 | |
| 441 | 7.34 | 7.30 | 34.165 | 26.720 | 138.8 | 0.893 | 0.95 | D 14.1 | 55.9 | 2.74 | 36.1 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 6.52 | D 6.47 | 34.200 | D 26.859 | 125.7 | 0.971 | 0.67 | D 9.7 | 66.7 | 2.95 | 38.5 | 0.00 | 0.00 | | | 503 | |
| 517 | 6.40 | 6.35 | 34.197 | 26.873 | 124.5 | 0.993 | 0.59 | 8.6 | 69.8 | 3.01 | 39.2 | 0.00 | 0.00 | | | 521 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 76.7 49.0

| 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 | 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 | ug/l | ug/l | db | | |
| 0 ISL | 12.46 | 12.46 | 33.394 | 25.255 | 270.5 | 0.000 | 6.44 | 106.4 | 4.3 | 0.55 | 3.7 | 0.16 | 0.05 | 7.09 | 0.92 | 0 | |
| 2 | 12.46 | 12.46 | 33.394 | 25.255 | 270.6 | 0.005 | 6.44 | 106.4 | 4.3 | 0.55 | 3.7 | 0.16 | 0.05 | 7.09 | 0.92 | 2 | 208 |
| 5 | 12.45 | 12.45 | 33.390 | 25.254 | 270.7 | 0.014 | 6.42 | 106.0 | 4.3 | 0.58 | 3.8 | 0.16 | 0.04 | 7.28 | 0.95 | 5 | 207 |
| 10 | 12.45 | 12.45 | 33.390 | 25.254 | 270.8 | 0.027 | 6.42 | 106.0 | 4.3 | 0.60 | 3.8 | 0.19 | 0.05 | 6.90 | 0.88 | 10 | 206 |
| 20 | 12.00 | 12.00 | 33.409 | 25.355 | 261.5 | 0.054 | 5.53 | 90.5 | 8.1 | 0.93 | 8.4 | 0.26 | 0.38 | 3.81 | 0.94 | 20 | 205 |
| 30 ISL | 11.81 | D 11.81 | 33.418 | D 25.397 | 257.7 | 0.080 | 5.25 | 85.5 | 10.2 | 1.03 | 10.3 | 0.29 | 0.40 | 3.34 | 1.12 | 30 | |
| 31 | 11.80 | 11.80 | 33.425 | 25.405 | 257.0 | 0.082 | 5.22 | 85.0 | 10.4 | 1.04 | 10.5 | 0.29 | 0.40 | 3.33 | 1.13 | 31 | 204 |
| 40 | 11.40 | 11.40 | 33.464 | 25.509 | 247.3 | 0.105 | 4.48 | 72.4 | 14.3 | 1.34 | 14.3 | 0.32 | 0.25 | 1.84 | 1.07 | 40 | 203 |
| 49 | 11.28 | 11.27 | 33.506 | 25.563 | 242.3 | 0.127 | 4.01 | 64.6 | 17.6 | 1.53 | 15.8 | 0.33 | 0.46 | 1.29 | 1.30 | 49 | 202 |
| 50 ISL | 11.30 | D 11.29 | 33.501 | D 25.556 | 243.1 | 0.129 | 3.99 | 64.3 | 17.7 | 1.54 | 15.9 | 0.33 | 0.47 | 1.28 | 1.33 | 50 | |
| 64 | 11.12 | 11.11 | 33.532 | 25.613 | 238.0 | 0.163 | 3.75 | 60.2 | 19.8 | 1.66 | 17.1 | 0.31 | 0.55 | 1.16 | 1.70 | 64 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 76.7 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-------|-------|---------|------|-----------|-----------|--------|--------|------|------|---------|
| 34 53.6 N | 121 12.2 W | 28/01/11 | 1741 | UTC | 571 m | 260 | 17 kn | 300 04 | 04 | 1 | 1019.0 mb | 13.3 C | 11.9 C | 07m | 4/8 | AC |
| 0 ISL | 12.69 | 12.69 | 33.389 | 25.206 | 275.1 | 0.000 | 7.06 | 117.2 | 1.2 | 0.60 | 0.7 | 0.04 | 0.07 | 3.81 | 0.64 | 0 |
| 2 A | 12.69 | 12.69 | 33.389 | 25.207 | 275.2 | 0.006 | 7.06 | 117.2 | 1.2 | 0.60 | 0.7 | 0.04 | 0.07 | 3.81 | 0.64 | 2 223 |
| 5 A | 12.63 | 12.63 | 33.392 | 25.221 | 273.9 | 0.014 | 6.97 | 115.6 | 1.4 | 0.37 | 1.0 | 0.04 | 0.01 | 3.76 | 0.74 | 5 221 |
| 5 A | 12.65 | 12.65 | 33.390 | 25.215 | 274.4 | 0.014 | 6.98 | 115.8 | 1.3 | 0.44 | 1.0 | 0.05 | 0.04 | 3.72 | 0.79 | 5 222 |
| 8 A | 12.77 | 12.77 | 33.386 | 25.189 | 277.0 | 0.022 | 7.16 | 119.0 | 0.6 | 0.23 | 0.2 | 0.02 | 0.00 | 3.79 | 0.65 | 8 220 |
| 10 ISL | 12.76 | D 12.76 | 33.386 D | 25.191 | 276.9 | 0.028 | 7.18 | D 119.4 | 0.7 | 0.26 | 0.3 | 0.02 | 0.00 | 3.75 | 0.66 | 10 |
| 11 A | 12.75 | 12.75 | 33.387 | 25.193 | 276.7 | 0.030 | 7.15 | 118.8 | 0.7 | 0.27 | 0.3 | 0.02 | 0.01 | 3.73 | 0.67 | 11 219 |
| 20 ISL | 12.30 | D 12.30 | 33.402 D | 25.292 | 267.5 | 0.055 | 6.54 | D 107.7 | 3.0 | 0.49 | 3.3 | 0.09 | 0.14 | 4.33 | 0.75 | 20 |
| 23 A | 12.19 | 12.19 | 33.405 | 25.316 | 265.3 | 0.063 | 6.23 | 102.3 | 4.5 | 0.61 | 5.0 | 0.12 | 0.21 | 4.46 | 0.78 | 23 218 |
| 30 ISL | 11.68 | D 11.68 | 33.413 D | 25.418 | 255.8 | 0.081 | 5.31 | D 86.3 | 9.4 | 1.04 | 10.2 | 0.21 | 0.46 | 3.62 | 1.11 | 30 |
| 32 | 11.55 | 11.55 | 33.401 | 25.432 | 254.4 | 0.086 | 5.06 | 82.0 | 10.8 | 1.16 | 11.7 | 0.23 | 0.50 | 3.29 | 1.18 | 32 217 |
| 40 | 11.03 | 11.03 | 33.435 | 25.553 | 243.1 | 0.106 | 4.42 | 70.8 | 14.7 | 1.48 | 15.7 | 0.22 | 0.24 | 2.18 | 0.87 | 40 216 |
| 50 | 10.32 | 10.31 | 33.589 | 25.797 | 220.1 | 0.129 | 3.30 | 52.1 | 21.9 | 1.82 | 21.8 | 0.08 | 0.00 | 1.46 | 0.78 | 50 215 |
| 60 | 9.67 | 9.66 | 33.595 | 25.911 | 209.4 | 0.151 | 3.39 | 52.8 | 23.4 | 1.85 | 23.1 | 0.03 | 0.00 | 0.60 | 0.52 | 60 214 |
| 70 | 9.74 | 9.73 | 33.703 | 25.984 | 202.7 | 0.171 | 2.95 | 46.0 | 25.6 | 1.94 | 24.3 | 0.02 | 0.00 | 0.65 | 0.53 | 70 213 |
| 75 ISL | 9.61 | D 9.60 | 33.748 D | 26.041 | 197.4 | 0.181 | 2.87 | D 44.7 | 26.5 | 1.97 | 24.9 | 0.02 | 0.00 | 0.58 | 0.48 | 75 |
| 86 | 9.46 | 9.45 | 33.791 | 26.099 | 192.0 | 0.203 | 2.72 | 42.2 | 28.4 | 2.05 | 26.1 | 0.01 | 0.00 | 0.37 | 0.36 | 86 212 |
| 100 | 9.70 | 9.69 | 33.924 | 26.164 | 186.2 | 0.229 | 2.09 | 32.6 | 31.2 | 2.19 | 27.0 | 0.01 | 0.00 | 0.26 | 0.31 | 101 211 |
| 119 | 9.51 | 9.50 | 34.014 | 26.266 | 176.9 | 0.264 | 1.81 | 28.2 | 34.1 | 2.28 | 28.3 | 0.01 | 0.00 | 0.14 | 0.28 | 120 210 |
| 125 ISL | 9.49 | D 9.48 | 34.023 D | 26.277 | 176.1 | 0.274 | 1.80 | D 28.0 | 34.4 | 2.28 | 28.5 | 0.01 | 0.00 | 0.14 | 0.28 | 126 |
| 141 | 9.42 | 9.40 | 34.059 | 26.317 | 172.6 | 0.302 | 1.69 | 26.2 | 35.0 | 2.29 | 28.7 | 0.00 | 0.00 | 0.15 | 0.27 | 142 209 |
| 150 ISL | 9.35 | D 9.33 | 34.069 D | 26.336 | 170.9 | 0.318 | 1.66 | D 25.7 | 35.6 | 2.30 | 28.9 | 0.00 | 0.00 | 0.15 | 0.26 | 151 |
| 170 | 9.17 | 9.15 | 34.087 | 26.379 | 167.2 | 0.351 | 1.63 | 25.2 | 37.1 | 2.33 | 29.3 | 0.00 | 0.00 | 0.14 | 0.22 | 171 208 |
| 200 | 8.87 | 8.85 | 34.126 | 26.458 | 160.2 | 0.401 | 1.58 | 24.2 | 39.3 | 2.40 | 30.2 | 0.00 | 0.00 | 0.06 | 0.14 | 201 207 |
| 234 | 8.52 | 8.50 | 34.129 | 26.515 | 155.3 | 0.454 | 1.57 | 23.9 | 41.9 | 2.43 | 31.1 | 0.00 | 0.00 | | 235 | 206 |
| 250 ISL | 8.07 | D 8.04 | 34.079 D | 26.544 | 152.6 | 0.479 | 1.88 | D 28.3 | 42.9 | 2.38 | 31.3 | 0.00 | 0.00 | | 252 | |
| 271 | 7.68 | 7.65 | 34.035 | 26.567 | 150.6 | 0.511 | 2.08 | 31.0 | 44.6 | 2.33 | 31.7 | 0.00 | 0.00 | | 273 | 205 |
| 300 ISL | 7.52 | D 7.49 | 34.106 D | 26.646 | 143.5 | 0.553 | 1.56 | D 23.2 | 49.3 | 2.48 | 33.3 | 0.00 | 0.00 | | 302 | |
| 321 | 7.36 | 7.33 | 34.127 | 26.686 | 140.0 | 0.583 | 1.34 | 19.9 | 53.1 | 2.64 | 34.6 | 0.00 | 0.00 | | 323 | 204 |
| 382 | 7.04 | 7.00 | 34.197 | 26.786 | 131.3 | 0.666 | 0.76 | 11.2 | 61.7 | 2.90 | 36.5 | 0.00 | 0.00 | | 385 | 203 |
| 400 ISL | 6.91 | D 6.87 | 34.206 D | 26.811 | 129.1 | 0.689 | 0.66 | D 9.7 | 63.8 | 2.94 | 37.0 | 0.00 | 0.00 | | 403 | |
| 443 | 6.60 | 6.56 | 34.221 | 26.865 | 124.4 | 0.744 | 0.58 | 8.4 | 68.5 | 2.99 | 38.1 | 0.00 | 0.00 | | 446 | 202 |
| 500 ISL | 6.15 | D 6.11 | 34.244 D | 26.942 | 117.5 | 0.813 | 0.47 | D 6.8 | 74.9 | 3.07 | 39.3 | 0.00 | 0.00 | | 504 | |
| 514 | 6.14 | 6.09 | 34.251 | 26.949 | 117.0 | 0.829 | 0.42 | 6.1 | 76.5 | 3.09 | 39.6 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 76.7 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|----------|---------|
| 34 43.6 N | 121 33.2 W | 28/01/11 | 1305 | UTC | 915 m | 270 | 14 kn | | | 1018.1 mb | 11.5 C | 10.6 C | | | | |
| 0 ISL | 12.67 | 12.67 | 33.221 | 25.080 | 287.1 | 0.000 | 6.11 | 101.3 | 5.6 | 0.72 | 4.9 | 0.25 | 0.05 | 0.99 | 0.34 | 0 |
| 2 | 12.67 | 12.67 | 33.221 | 25.080 | 287.2 | 0.006 | 6.11 | 101.3 | 5.6 | 0.72 | 4.9 | 0.25 | 0.05 | 0.99 | 0.34 | 2 220 |
| 10 | 12.67 | 12.67 | 33.221 | 25.080 | 287.4 | 0.029 | 6.11 | 101.3 | 5.6 | 0.66 | 4.9 | 0.25 | 0.06 | 0.98 | 0.28 | 10 219 |
| 20 | 12.65 | 12.65 | 33.221 | 25.085 | 287.2 | 0.057 | 6.10 | 101.1 | 5.6 | 0.66 | 5.0 | 0.26 | 0.07 | 0.97 | A 0.33 A | 20 218 |
| 30 ISL | 12.34 | D 12.34 | 33.253 D | 25.169 | 279.4 | 0.086 | 6.02 | D 99.1 | 5.1 | 0.72 | 5.7 | 0.32 | 0.39 | 1.11 | 0.44 | 30 |
| 31 | 12.34 | 12.34 | 33.252 | 25.169 | 279.5 | 0.089 | 5.98 | 98.4 | 5.0 | 0.73 | 5.8 | 0.32 | 0.41 | 1.12 | 0.44 | 31 217 |
| 40 | 12.00 | 11.99 | 33.300 | 25.271 | 270.0 | 0.113 | 5.45 | 89.1 | 7.9 | 0.95 | 9.3 | 0.26 | 0.18 | 1.13 | 0.27 | 40 216 |
| 49 | 11.20 | 11.19 | 33.356 | 25.461 | 252.1 | 0.137 | 4.68 | 75.2 | 12.9 | 1.29 | 14.6 | 0.07 | 0.00 | 0.66 | 0.37 | 49 215 |
| 50 ISL | 11.16 | D 11.15 | 33.370 D | 25.479 | 250.4 | 0.139 | 4.57 | D 73.4 | 13.3 | 1.31 | 15.0 | 0.07 | 0.00 | 0.60 | 0.36 | 50 |
| 60 | 10.57 | 10.56 | 33.428 | 25.629 | 236.3 | 0.164 | 4.15 | 65.8 | 16.7 | 1.50 | 18.0 | 0.03 | 0.00 | 0.21 | 0.26 | 60 214 |
| 71 | 9.99 | 9.98 | 33.583 | 25.849 | 215.6 | 0.189 | 3.42 | 53.6 | 21.9 | 1.77 | 22.2 | 0.02 | 0.00 | 0.36 | 0.39 | 71 213 |
| 75 ISL | 9.92 | D 9.91 | 33.713 D | 25.962 | 204.9 | 0.197 | 2.97 | D 46.5 | 23.8 | 1.86 | 23.3 | 0.02 | 0.00 | 0.34 | 0.42 | 75 |
| 85 | 9.93 | 9.92 | 33.796 | 26.026 | 199.1 | 0.217 | 2.50 | 39.2 | 27.6 | 2.03 | 25.2 | 0.01 | 0.00 | 0.27 | 0.45 | 85 212 |
| 100 | 9.83 | 9.82 | 33.854 | 26.088 | 193.5 | 0.247 | 2.30 | 36.0 | 29.1 | 2.09 | 26.1 | 0.01 | 0.00 | 0.40 | 0.39 | 101 211 |
| 120 | 9.64 | 9.63 | 33.956 | 26.199 | 183.3 | 0.284 | 2.02 | 31.5 | 31.8 | 2.20 | 27.4 | 0.00 | 0.00 | 0.22 | 0.42 | 121 210 |
| 125 ISL | 9.58 | D 9.57 | 33.970 D | 26.220 | 181.4 | 0.293 | 2.05 | D 31.9 | 32.2 | 2.21 | 27.6 | 0.00 | 0.00 | 0.19 | 0.44 | 126 |
| 150 | 9.32 | 9.30 | 34.027 | 26.308 | 173.6 | 0.338 | 1.90 | 29.4 | 33.9 | 2.26 | 28.4 | 0.00 | 0.00 | 0.09 | 0.52 | 151 209 |
| 171 | 9.21 | 9.19 | 34.074 | 26.363 | 168.8 | 0.374 | 1.74 | 26.9 | 35.7 | 2.31 | 29.0 | 0.00 | 0.00 | 0.08 | 0.25 | 172 208 |
| 200 | 8.65 | 8.63 | 34.034 | 26.420 | 163.7 | 0.422 | 2.18 | 33.3 | 36.0 | 2.19 | 29.1 | 0.00 | 0.00 | 0.08 | 0.25 | 201 207 |
| 230 | 8.50 | 8.48 | 34.121 | 26.512 | 155.5 | 0.470 | 1.62 | 24.6 | 41.2 | 2.41 | 31.0 | 0.00 | 0.00 | | 231 | 206 |
| 250 ISL | 8.20 | D 8.17 | 34.148 D | 26.579 | 149.4 | 0.500 | 1.42 | D 21.5 | 44.6 | 2.51 | 32.1 | 0.00 | 0.00 | | 252 | |
| 272 | 7.96 | 7.93 | 34.164 | 26.628 | 145.1 | 0.533 | 1.19 | 17.9 | 48.4 | 2.60 | 33.3 | 0.00 | 0.00 | | 274 | 205 |
| 300 ISL | 7.50 | D 7.47 | 34.189 D | 26.714 | 137.1 | 0.572 | 0.96 | D 14.3 | 54.1 | 2.73 | 34.7 | 0.00 | 0.00 | | 302 | |
| 321 | 7.35 | 7.32 | 34.196 | 26.741 | 134.8 | 0.601 | 0.83 | 12.3 | 58.0 | 2.81 | 35.6 | 0.00 | 0.00 | | 323 | 204 |
| 380 | 6.92 | 6.88 | 34.223 | 26.823 | 127.7 | 0.678 | 0.66 | 9.7 | 63.6 | 2.92</td | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 12.75 | 12.75 | 33.199 | 25.047 | 290.3 | 0.000 | 6.45 | 107.1 | 2.6 | 0.48 | 3.0 | 0.20 | 0.14 | 2.23 | 0.19 | 0 |
| 2 | | 12.75 | 12.75 | 33.199 | 25.048 | 290.3 | 0.006 | 6.45 | 107.1 | 2.6 | 0.48 | 3.0 | 0.20 | 0.14 | 2.23 | 0.19 | 2 220 |
| 10 | | 12.73 | 12.73 | 33.196 | 25.049 | 290.3 | 0.029 | 6.45 | 107.0 | 2.7 | 0.48 | 3.1 | 0.20 | 0.14 | 1.22 | 0.08 | 10 219 |
| 20 | | 12.48 | 12.48 | 33.226 | 25.121 | 283.7 | 0.058 | 5.97 | 98.6 | 5.6 | 0.69 | 5.5 | 0.32 | 0.33 | 1.30 | 0.35 | 20 218 |
| 30 | | 12.32 | 12.32 | 33.266 | 25.183 | 278.1 | 0.086 | 5.86 | 96.4 | 6.4 | 0.77 | 6.7 | 0.36 | 0.44 | 1.34 | 0.48 | 30 217 |
| 40 | | 12.28 | 12.27 | 33.297 | 25.215 | 275.3 | 0.113 | 5.89 | 96.9 | 7.5 | 0.85 | 7.8 | 0.40 | 0.29 | 1.07 | 0.38 | 40 216 |
| 50 | | 12.25 | 12.24 | 33.311 | 25.232 | 274.0 | 0.141 | 5.90 | 97.0 | 7.7 | 0.87 | 8.1 | 0.40 | 0.38 | 0.77 | 0.36 | 50 215 |
| 60 | | 11.91 | 11.90 | 33.327 | 25.309 | 266.9 | 0.168 | 5.55 | 90.6 | 9.0 | 0.99 | 10.0 | 0.36 | 0.46 | 0.29 | 0.22 | 60 214 |
| 70 | | 11.02 | 11.01 | 33.379 | 25.512 | 247.7 | 0.194 | 4.52 | 72.4 | 13.9 | 1.31 | 15.7 | 0.06 | 0.00 | 0.16 | 0.25 | 70 213 |
| 75 | ISL | 10.82 | 10.87 | 33.411 | D 25.562 | 243.1 | 0.206 | 4.49 | D 71.7 | 16.4 | 1.44 | 18.0 | 0.04 | 0.00 | 0.11 | 0.22 | 75 |
| 85 | | 9.52 | 9.51 | 33.471 | 25.839 | 216.7 | 0.229 | 3.78 | 58.6 | 21.0 | 1.67 | 21.8 | 0.01 | 0.00 | 0.05 | 0.16 | 85 212 |
| 100 | | 9.54 | 9.53 | 33.694 | 26.011 | 200.8 | 0.260 | 2.90 | 45.0 | 25.8 | 1.95 | 25.7 | 0.00 | 0.00 | 0.01 | 0.17 | 101 211 |
| 120 | | 9.23 | 9.22 | 33.836 | 26.172 | 185.8 | 0.299 | 2.51 | 38.8 | 29.6 | 2.07 | 27.7 | 0.00 | 0.00 | 0.01 | 0.15 | 121 210 |
| 125 | ISL | 9.08 | D 9.07 | 33.880 | D 26.231 | 180.3 | 0.308 | 2.45 | D 37.7 | 30.5 | 2.09 | 28.1 | 0.00 | 0.00 | 0.01 | 0.14 | 126 |
| 140 | | 8.89 | 8.88 | 33.926 | 26.297 | 174.3 | 0.335 | 2.32 | 35.6 | 32.8 | 2.14 | 28.9 | 0.00 | 0.00 | 0.01 | 0.11 | 141 209 |
| 150 | ISL | 8.68 | D 8.66 | 33.980 | D 26.372 | 167.2 | 0.352 | 2.25 | D 34.3 | 34.1 | 2.17 | 29.1 | 0.00 | 0.00 | 0.01 | 0.10 | 151 |
| 170 | | 8.65 | 8.63 | 34.048 | 26.431 | 162.1 | 0.385 | 2.08 | 31.7 | 36.7 | 2.22 | 29.3 | 0.00 | 0.00 | 0.00 | 0.08 | 171 208 |
| 200 | | 8.10 | 8.08 | 34.063 | 26.526 | 153.4 | 0.432 | 1.95 | 29.4 | 41.3 | 2.31 | 31.0 | 0.00 | 0.00 | 0.00 | 0.06 | 201 207 |
| 231 | | 7.68 | 7.66 | 34.046 | 26.575 | 149.2 | 0.479 | 1.90 | 28.4 | 44.9 | 2.37 | 32.3 | 0.00 | 0.00 | | 232 | 206 |
| 250 | ISL | 7.75 | D 7.73 | 34.133 | D 26.634 | 144.0 | 0.507 | 1.39 | D 20.8 | 48.3 | 2.48 | 33.4 | 0.00 | 0.00 | | 252 | |
| 271 | | 7.26 | 7.23 | 34.125 | 26.697 | 138.0 | 0.536 | 1.28 | 18.9 | 52.5 | 2.62 | 34.7 | 0.00 | 0.00 | | 273 | 205 |
| 300 | ISL | 7.04 | D 7.01 | 34.149 | D 26.747 | 133.7 | 0.576 | 1.04 | D 15.3 | 57.9 | 2.75 | 36.0 | 0.00 | 0.00 | | 302 | |
| 320 | | 6.92 | 6.89 | 34.177 | 26.786 | 130.2 | 0.602 | 0.84 | 12.3 | 61.4 | 2.82 | 36.8 | 0.00 | 0.00 | | 322 | 204 |
| 381 | | 6.49 | 6.46 | 34.234 | 26.889 | 121.1 | 0.679 | 0.57 | 8.3 | 69.7 | 2.98 | 38.5 | 0.00 | 0.00 | | 384 | 203 |
| 400 | ISL | 6.35 | D 6.31 | 34.247 | D 26.917 | 118.6 | 0.702 | 0.52 | D 7.5 | 71.7 | 3.01 | 38.9 | 0.00 | 0.00 | | 403 | |
| 441 | | 6.14 | 6.10 | 34.263 | 26.958 | 115.2 | 0.750 | 0.41 | 5.9 | 76.0 | 3.07 | 39.6 | 0.00 | 0.00 | | 444 | 202 |
| 500 | ISL | 5.75 | D 5.71 | 34.287 | D 27.026 | 109.1 | 0.816 | 0.35 | D 5.0 | 83.2 | 3.16 | 40.9 | 0.00 | 0.00 | | 504 | |
| 516 | | 5.57 | 5.53 | 34.279 | 27.042 | 107.6 | 0.833 | 0.30 | 4.3 | 85.2 | 3.19 | 41.3 | 0.00 | 0.00 | | 520 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 13.15 | 13.15 | 33.171 | 24.947 | 299.8 | 0.000 | 6.10 | 102.1 | 4.9 | 0.58 | 3.9 | 0.15 | 0.30 | 0.39 | 0.17 | 0 |
| 2 | | 13.15 | 13.15 | 33.171 | 24.947 | 299.9 | 0.006 | 6.10 | 102.1 | 4.9 | 0.58 | 3.9 | 0.15 | 0.30 | 0.39 | 0.17 | 2 220 |
| 10 | | 12.77 | 12.77 | 33.170 | 25.021 | 293.0 | 0.030 | 6.12 | 101.6 | 5.0 | 0.58 | 4.0 | 0.16 | 0.30 | 0.39 | 0.08 | 10 219 |
| 20 | | 12.68 | 12.68 | 33.173 | 25.042 | 291.3 | 0.059 | 6.12 | 101.4 | 5.1 | 0.58 | 4.1 | 0.17 | 0.29 | 0.45 | 0.17 | 20 218 |
| 30 | | 12.63 | 12.63 | 33.169 | 25.048 | 290.9 | 0.088 | 6.11 | 101.1 | 5.1 | 0.60 | 4.2 | 0.19 | 0.38 | 0.49 | 0.19 | 30 217 |
| 40 | | 12.53 | 12.52 | 33.174 | 25.072 | 289.0 | 0.117 | 6.02 | 99.4 | 5.3 | 0.63 | 4.6 | 0.24 | 0.46 | 0.41 | 0.20 | 40 216 |
| 50 | | 12.24 | 12.23 | 33.213 | 25.158 | 281.0 | 0.146 | 5.83 | 95.7 | 6.1 | 0.77 | 6.3 | 0.39 | 0.59 | 0.27 | 0.16 | 50 215 |
| 60 | | 11.93 | 11.92 | 33.331 | 25.308 | 267.0 | 0.173 | 5.31 | 86.7 | 8.4 | 1.00 | 10.8 | 0.26 | 0.00 | 0.15 | 0.18 | 60 214 |
| 70 | | 10.35 | 10.34 | 33.540 | 25.754 | 224.6 | 0.198 | 3.59 | 56.7 | 19.4 | 1.70 | 21.8 | 0.01 | 0.00 | 0.04 | 0.16 | 70 213 |
| 75 | ISL | 10.00 | D 9.99 | 33.616 | D 25.873 | 213.4 | 0.208 | 3.25 | D 51.0 | 22.2 | 1.78 | 23.1 | 0.01 | 0.00 | 0.03 | 0.15 | 75 |
| 85 | | 9.62 | 9.61 | 33.680 | 25.986 | 202.8 | 0.229 | 2.97 | 46.2 | 25.4 | 1.95 | 25.7 | 0.01 | 0.00 | 0.02 | 0.12 | 85 212 |
| 100 | | 9.25 | 9.24 | 33.813 | 26.151 | 187.4 | 0.259 | 2.55 | 39.4 | 29.5 | 2.09 | 27.9 | 0.00 | 0.00 | 0.01 | 0.09 | 101 211 |
| 120 | | 9.05 | 9.04 | 33.933 | 26.277 | 175.8 | 0.295 | 2.15 | 33.1 | 32.9 | 2.20 | 29.4 | 0.00 | 0.00 | 0.00 | 0.06 | 121 210 |
| 125 | ISL | 9.03 | D 9.02 | 33.950 | D 26.294 | 174.3 | 0.304 | 2.12 | D 32.6 | 33.4 | 2.21 | 29.5 | 0.00 | 0.01 | 0.00 | 0.06 | 126 |
| 141 | | 8.81 | 8.80 | 33.979 | 26.351 | 169.1 | 0.331 | 2.09 | 32.0 | 34.8 | 2.23 | 29.8 | 0.01 | 0.03 | 0.00 | 0.06 | 142 209 |
| 150 | ISL | 8.71 | D 8.69 | 34.001 | D 26.384 | 166.1 | 0.346 | 2.06 | D 31.5 | 36.0 | 2.26 | 30.2 | 0.01 | 0.02 | 0.00 | 0.06 | 151 |
| 170 | | 8.44 | 8.42 | 34.045 | 26.461 | 159.2 | 0.379 | 1.85 | 28.1 | 38.9 | 2.32 | 31.2 | 0.00 | 0.00 | 0.00 | 0.05 | 171 208 |
| 200 | | 8.15 | 8.13 | 34.071 | 26.525 | 153.5 | 0.426 | 1.69 | 25.5 | 42.5 | 2.40 | 32.2 | 0.00 | 0.00 | 0.00 | 0.05 | 201 207 |
| 230 | | 7.76 | 7.74 | 34.078 | 26.589 | 147.9 | 0.471 | 1.60 | 23.9 | 46.7 | 2.47 | 33.3 | 0.00 | 0.00 | | 231 | 206 |
| 250 | ISL | 7.50 | D 7.48 | 34.105 | D 26.647 | 142.5 | 0.500 | 1.38 | D 20.5 | 50.3 | 2.55 | 34.3 | 0.00 | 0.00 | | 252 | |
| 270 | | 7.16 | 7.13 | 34.093 | 26.686 | 139.0 | 0.528 | 1.32 | 19.5 | 54.0 | 2.64 | 35.4 | 0.00 | 0.00 | | 272 | 205 |
| 300 | ISL | 6.75 | D 6.72 | 34.099 | D 26.747 | 133.5 | 0.569 | 1.19 | D 17.4 | 59.1 | 2.76 | 36.8 | 0.00 | 0.00 | | 302 | |
| 321 | | 6.74 | 6.71 | 34.139 | 26.780 | 130.7 | 0.597 | 0.95 | 13.9 | 62.2 | 2.84 | 37.6 | 0.00 | 0.00 | | 323 | 204 |
| 380 | | 6.46 | 6.43 | 34.182 | 26.852 | 124.6 | 0.672 | 0.67 | 9.7 | 67.9 | 2.97 | 38.9 | 0.00 | 0.00 | | 383 | 203 |
| 400 | ISL | 6.23 | D 6.19 | 34.183 | D 26.882 | 121.7 | 0.697 | 0.63 | D 9.1 | 70.7 | 3.01 | 39.4 | 0.00 | 0.00 | | 403 | |
| 441 | | 5.99 | 5.95 | 34.217 | 26.940 | 116.6 | 0.745 | 0.48 | 6.9 | 76.5 | 3.08 | 40.2 | 0.00 | 0.00 | | 444 | 202 |
| 500 | ISL | 5.69 | D 5.65 | 34.249 | D 27.003 | 111.2 | 0.813 | 0.37 | D 5.3 | 82.0 | 3.14 | 41.0 | 0.00 | 0.00 | | 504 | |
| 517 | | 5.64 | 5.60 | 34.261 | 27.019 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 13.13 | 13.13 | 33.022 | 24.836 | 310.4 | 0.000 | 6.11 | 102.1 | 4.0 | 0.49 | 2.2 | 0.08 | 0.05 | 0.59 | 0.15 | 0 | |
| 2 A | 13.13 | 13.13 | 33.022 | 24.836 | 310.5 | 0.006 | 6.11 | 102.1 | 4.0 | 0.49 | 2.2 | 0.08 | 0.05 | 0.59 | 0.15 | 2 222 | |
| 10 ISL | 12.99 | 12.99 | 33.030 D | 24.870 | 307.4 | 0.031 | 6.15 | 102.5 | 4.0 | 0.50 | 2.4 | 0.09 | 0.07 | 0.63 | 0.16 | 10 | |
| 11 A | 12.99 | 12.99 | 33.031 | 24.871 | 307.4 | 0.034 | 6.11 | 101.8 | 4.0 | 0.50 | 2.5 | 0.09 | 0.07 | 0.64 | 0.16 | 11 221 | |
| 14 A | 12.98 | 12.98 | 33.031 | 24.873 | 307.3 | 0.043 | 6.07 | 101.1 | 4.1 | 0.51 | 2.7 | 0.10 | 0.11 | 0.64 | 0.16 | 14 220 | |
| 18 A | 12.95 | 12.95 | 33.046 | 24.890 | 305.7 | 0.055 | 6.08 | 101.3 | 4.3 | 0.52 | 2.8 | 0.10 | 0.13 | 0.62 | 0.18 | 18 219 | |
| 20 ISL | 12.90 | 12.90 | 33.063 D | 24.913 | 303.5 | 0.062 | 6.19 | 103.0 | 4.5 | 0.53 | 3.0 | 0.10 | 0.12 | 0.72 | 0.24 | 20 | |
| 28 A | 12.65 | 12.65 | 33.122 | 25.008 | 294.7 | 0.086 | 6.13 | 101.5 | 5.1 | 0.59 | 3.9 | 0.15 | 0.08 | 1.08 | 0.45 | 28 218 | |
| 30 ISL | 12.53 | 12.53 | 33.147 D | 25.051 | 290.7 | 0.091 | 6.14 | 101.4 | 5.2 | 0.61 | 4.1 | 0.17 | 0.12 | 1.02 | 0.43 | 30 | |
| 37 | 12.43 | 12.43 | 33.158 | 25.079 | 288.2 | 0.112 | 5.98 | 98.6 | 5.6 | 0.67 | 5.0 | 0.25 | 0.26 | 0.66 | 0.38 | 37 217 | |
| 45 | 12.11 | 12.10 | 33.172 | 25.151 | 281.6 | 0.134 | 5.72 | 93.7 | 6.6 | 0.78 | 7.0 | 0.32 | 0.18 | 0.37 | 0.32 | 45 216 | |
| 50 ISL | 11.72 D | 11.71 | 33.183 D | 25.232 | 273.9 | 0.148 | 5.36 | 87.0 | 7.4 | 0.88 | 8.7 | 0.19 | 0.08 | 0.24 | 0.23 | 50 | |
| 55 A | 11.24 | 11.23 | 33.152 | 25.295 | 268.0 | 0.162 | 5.19 | 83.4 | 8.5 | 0.99 | 10.5 | 0.04 | 0.00 | 0.15 | 0.14 | 55 215 | |
| 62 | 10.97 | 10.96 | 33.211 | 25.390 | 259.1 | 0.180 | 4.96 | 79.3 | 10.6 | 1.14 | 12.9 | 0.02 | 0.00 | 0.10 | 0.12 | 62 214 | |
| 70 | 10.44 | 10.43 | 33.216 | 25.486 | 250.1 | 0.201 | 4.90 | 77.4 | 12.3 | 1.23 | 14.2 | 0.02 | 0.00 | 0.07 | 0.13 | 70 213 | |
| 75 ISL | 10.09 D | 10.08 | 33.320 D | 25.627 | 236.8 | 0.213 | 4.47 | 70.1 | 14.0 | 1.34 | 15.9 | 0.02 | 0.00 | 0.06 | 0.13 | 75 | |
| 86 | 9.96 | 9.95 | 33.403 | 25.714 | 228.7 | 0.238 | 4.12 | 64.5 | 17.7 | 1.57 | 19.6 | 0.02 | 0.00 | 0.04 | 0.11 | 86 212 | |
| 100 ISL | 9.38 D | 9.37 | 33.512 D | 25.894 | 211.7 | 0.269 | 4.02 | 62.1 | 20.1 | 1.63 | 20.8 | 0.01 | 0.00 | 0.01 | 0.07 | 101 | |
| 101 | 9.38 | 9.37 | 33.511 | 25.894 | 211.8 | 0.271 | 3.99 | 61.7 | 20.3 | 1.63 | 20.9 | 0.01 | 0.00 | 0.01 | 0.07 | 102 211 | |
| 121 | 9.10 | 9.09 | 33.739 | 26.117 | 191.0 | 0.312 | 3.15 | 48.5 | 26.8 | 1.94 | 25.5 | 0.00 | 0.00 | 0.01 | 0.07 | 122 210 | |
| 125 ISL | 9.08 D | 9.07 | 33.789 D | 26.160 | 187.0 | 0.319 | 3.02 | 46.5 | 27.8 | 1.94 | 25.8 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | |
| 139 | 8.43 | 8.42 | 33.805 | 26.273 | 176.3 | 0.345 | 3.20 | 48.5 | 30.9 | 1.95 | 26.7 | 0.00 | 0.00 | 0.00 | 0.04 | 140 209 | |
| 150 ISL | 8.75 D | 8.73 | 33.970 D | 26.354 | 169.1 | 0.364 | 2.21 | 33.8 | 33.4 | 2.07 | 28.2 | 0.00 | 0.00 | 0.00 | 0.04 | 151 | |
| 169 | 8.66 | 8.64 | 34.020 | 26.407 | 164.3 | 0.395 | 1.89 | 28.8 | 37.2 | 2.29 | 30.8 | 0.00 | 0.00 | 0.00 | 0.04 | 170 208 | |
| 200 | 8.38 | 8.36 | 34.065 | 26.486 | 157.4 | 0.445 | 1.69 | 25.6 | 40.3 | 2.37 | 31.8 | 0.00 | 0.00 | 0.00 | 0.04 | 201 207 | |
| 229 | 8.17 | 8.15 | 34.090 | 26.538 | 152.9 | 0.490 | 1.53 | 23.1 | 43.2 | 2.45 | 32.6 | 0.00 | 0.00 | 0.00 | 0.04 | 230 206 | |
| 250 ISL | 7.98 D | 7.95 | 34.105 D | 26.578 | 149.4 | 0.522 | 1.47 | 22.1 | 45.4 | 2.48 | 33.1 | 0.00 | 0.00 | 0.00 | 0.04 | 251 | |
| 272 | 7.62 | 7.59 | 34.086 | 26.616 | 146.0 | 0.554 | 1.57 | 23.4 | 47.9 | 2.51 | 33.7 | 0.00 | 0.00 | 0.00 | 0.04 | 274 205 | |
| 300 ISL | 7.20 D | 7.17 | 34.075 D | 26.667 | 141.4 | 0.595 | 1.53 | 22.6 | 52.0 | 2.60 | 34.9 | 0.00 | 0.00 | 0.00 | 0.04 | 302 | |
| 319 | 7.10 | 7.07 | 34.098 | 26.699 | 138.6 | 0.621 | 1.25 | 18.4 | 54.9 | 2.67 | 35.8 | 0.00 | 0.00 | 0.00 | 0.04 | 321 204 | |
| 381 | 6.62 | 6.59 | 34.144 | 26.801 | 129.5 | 0.704 | 0.88 | 12.8 | 63.4 | 2.87 | 37.9 | 0.00 | 0.00 | 0.00 | 0.04 | 383 203 | |
| 400 ISL | 6.46 D | 6.42 | 34.156 D | 26.831 | 126.8 | 0.729 | 0.81 | 11.8 | 66.0 | 2.92 | 38.4 | 0.00 | 0.00 | 0.00 | 0.04 | 403 | |
| 441 | 6.25 | 6.21 | 34.205 | 26.898 | 120.9 | 0.779 | 0.56 | 8.1 | 71.7 | 3.01 | 39.4 | 0.00 | 0.00 | 0.00 | 0.04 | 445 202 | |
| 500 ISL | 5.73 D | 5.69 | 34.223 D | 26.978 | 113.6 | 0.849 | 0.49 | 7.0 | 80.1 | 3.11 | 40.8 | 0.00 | 0.00 | 0.00 | 0.04 | 503 | |
| 515 | 5.67 | 5.63 | 34.239 | 26.998 | 111.8 | 0.866 | 0.40 | 5.7 | 82.2 | 3.13 | 41.1 | 0.00 | 0.00 | 0.00 | 0.04 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.93 | 13.93 | 32.807 | 24.508 | 341.6 | 0.000 | 6.02 | 102.2 | 2.1 | 0.33 | 0.2 | 0.00 | 0.00 | 0.32 | 0.06 | 0 | |
| 2 | 13.93 | 13.93 | 32.807 | 24.508 | 341.7 | 0.007 | 6.02 | 102.2 | 2.1 | 0.33 | 0.2 | 0.00 | 0.00 | 0.32 | 0.06 | 2 220 | |
| 10 | 13.98 | 13.98 | 32.841 D | 24.524 | 340.4 | 0.034 | 6.00 | 102.0 | 2.1 | 0.32 | 0.2 | 0.00 | 0.00 | 0.37 | 0.06 | 10 219 | |
| 20 | 13.96 | 13.96 | 32.842 | 24.529 | 340.2 | 0.068 | 5.99 | 101.7 | 2.2 | 0.31 | 0.2 | 0.00 | 0.00 | 0.37 | 0.09 | 20 218 | |
| 30 | 13.88 | 13.88 | 32.823 | 24.531 | 340.2 | 0.102 | 6.00 | 101.7 | 2.2 | 0.33 | 0.2 | 0.00 | 0.00 | 0.47 | 0.13 | 30 217 | |
| 39 | 13.58 | 13.57 | 32.772 | 24.553 | 338.4 | 0.133 | 6.02 | 101.4 | 2.2 | 0.35 | 0.3 | 0.01 | 0.07 | 0.43 | 0.12 | 39 216 | |
| 50 ISL | 13.30 D | 13.29 | 32.789 D | 24.623 | 332.0 | 0.170 | 6.07 | 101.7 | 2.3 | 0.38 | 0.6 | 0.04 | 0.11 | 0.38 | 0.14 | 50 | |
| 51 | 13.40 | 13.39 | 32.772 | 24.590 | 335.2 | 0.173 | 5.99 | 100.5 | 2.3 | 0.38 | 0.6 | 0.05 | 0.11 | 0.37 | 0.14 | 51 215 | |
| 61 | 12.33 | 12.32 | 32.913 | 24.908 | 305.0 | 0.205 | 5.79 | 95.1 | 4.1 | 0.60 | 3.9 | 0.13 | 0.00 | 0.31 | 0.20 | 61 214 | |
| 71 | 12.03 | 12.02 | 33.013 | 25.043 | 292.5 | 0.235 | 5.61 | 91.6 | 4.7 | 0.72 | 5.5 | 0.02 | 0.00 | 0.20 | 0.13 | 71 213 | |
| 75 ISL | 11.90 D | 11.89 | 33.108 D | 25.141 | 283.2 | 0.246 | 5.52 | 89.9 | 5.1 | 0.77 | 6.4 | 0.02 | 0.00 | 0.15 | 0.11 | 75 | |
| 86 | 11.50 | 11.49 | 33.210 D | 25.294 | 268.8 | 0.277 | 5.13 | 82.9 | 5.1 | 0.77 | 6.4 | 0.02 | 0.00 | 0.06 | 0.07 | 86 212 | |
| 100 ISL | 10.51 D | 10.50 | 33.354 D | 25.582 | 241.6 | 0.312 | 4.42 | 70.0 | 11.9 | 1.25 | 14.5 | 0.00 | 0.00 | 0.07 | 0.08 | 100 | |
| 101 | 10.54 | 10.53 | 33.297 | 25.533 | 246.3 | 0.315 | 4.64 | 73.5 | 12.3 | 1.27 | 14.9 | 0.00 | 0.00 | 0.07 | 0.08 | 101 211 | |
| 120 | 9.88 | 9.87 | 33.639 | 25.912 | 210.6 | 0.358 | 3.11 | 48.7 | 23.3 | 1.87 | 24.4 | 0.00 | 0.00 | 0.02 | 0.05 | 121 210 | |
| 125 ISL | 9.80 D | 9.79 | 33.681 D | 25.958 | 206.3 | 0.369 | 3.04 | 47.5 | 24.8 | 1.94 | 25.5 | 0.00 | 0.00 | 0.02 | 0.05 | 126 | |
| 141 | 9.61 | 9.59 | 33.803 | 26.085 | 194.6 | 0.401 | 2.50 | 38.9 | 27.9 | 2.06 | 27.1 | 0.00 | 0.00 | 0.01 | 0.05 | 142 209 | |
| 150 ISL | 9.50 D | 9.48 | 33.899 D | 26.178 | 185.9 | 0.418 | 2.25 | 35.0 | 29.9 | 2.14 | 28.0 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | |
| 170 | 9.40 | 9.38 | 34.006 | 26.279 | 176.8 | 0.454 | 1.74 | 27.0 | 33.6 | 2.27 | 29.5 | 0.00 | 0.00 | 0.00 | 0.04 | 171 208 | |
| 200 | 9.24 | 9.22 | 34.075 | 26.359 | 169.7 | 0.506 | 1.59 | 24.6 | 35.2 | 2.34 | 29.9 | 0.00 | 0.00 | 0.00 | 0.04 | 201 207 | |
| 230 | 9.02 | 9.00 | 34.133 | 26.440 | 162.6 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 12.92 | 12.92 | 33.317 | 25.106 | 284.7 | 0.000 | 6.02 | 100.4 | 5.2 | 0.63 | 2.9 | 0.18 | 0.85 | 3.23 | 0.58 | 0 | | |
| 2 | 12.92 | 12.92 | 33.317 | 25.106 | 284.8 | 0.006 | 6.02 | 100.4 | 5.2 | 0.63 | 2.9 | 0.18 | 0.85 | 3.23 | 0.58 | 2 | 206 | |
| 5 | 12.88 | 12.88 | 33.317 | 25.114 | 284.1 | 0.014 | 5.98 | 99.6 | 5.2 | 0.66 | 3.0 | 0.18 | 0.82 | 2.74 | 0.59 | 5 | 205 | |
| 10 | 12.73 | 12.73 | 33.324 | 25.149 | 280.9 | 0.028 | 5.78 | 96.0 | 6.0 | 0.72 | 3.9 | 0.20 | 0.98 | 2.22 | 0.57 | 10 | 203 | |
| 10 | 12.73 | 12.73 | 33.323 | 25.148 | 281.0 | 0.028 | | | | | | | | | | 10 | 204 | |
| 15 | 12.27 | 12.27 | 33.377 | 25.278 | 268.7 | 0.042 | 4.95 | 81.4 | 10.5 | 1.05 | 8.6 | 0.29 | 0.99 | 1.34 | 0.70 | 15 | 202 | |
| 18 | 12.15 | 12.15 | 33.387 | 25.309 | 265.8 | 0.050 | 4.80 | 78.8 | 11.2 | 1.11 | 9.4 | 0.30 | 0.96 | 1.21 | 0.49 | 18 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 80.0 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 | 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 | 13.08 | 13.08 | 33.295 | 25.057 | 289.3 | 0.000 | 6.23 | 104.2 | 4.2 | 0.48 | 2.0 | 0.12 | 0.59 | 2.64 | 0.50 | 0 | | |
| 2 A | 13.08 | 13.08 | 33.295 | 25.057 | 289.4 | 0.006 | 6.23 | 104.2 | 4.2 | 0.48 | 2.0 | 0.12 | 0.59 | 2.64 | 0.50 | 2 | 211 | |
| 6 A | 13.00 | 13.00 | 33.301 | 25.078 | 287.5 | 0.017 | 6.17 | 103.0 | 4.4 | 0.50 | 2.2 | 0.13 | 0.60 | 2.80 | 0.50 | 6 | 210 | |
| 8 A | 12.90 | 12.90 | 33.307 | 25.102 | 285.3 | 0.023 | 6.10 | 101.6 | 4.5 | 0.51 | 2.5 | 0.14 | 0.54 | 3.04 | 0.49 | 8 | 209 | |
| 10 ISL | 12.84 | 12.84 | 33.320 | D 25.124 | 283.2 | 0.029 | 5.93 | D 98.7 | 4.8 | 0.57 | 3.1 | 0.15 | 0.59 | 3.21 | 0.46 | 10 | | |
| 11 A | 12.83 | 12.83 | 33.322 | 25.128 | 282.9 | 0.032 | 5.92 | 98.5 | 5.0 | 0.60 | 3.4 | 0.16 | 0.63 | 3.27 | 0.45 | 11 | 208 | |
| 16 A | 12.81 | 12.81 | 33.328 | 25.136 | 282.2 | 0.046 | 5.91 | 98.3 | 4.9 | 0.62 | 3.8 | 0.17 | 0.79 | 3.16 | 0.47 | 16 | 207 | |
| 20 ISL | 12.78 | D 12.78 | 33.334 | D 25.147 | 281.3 | 0.057 | 5.87 | D 97.6 | 6.7 | 0.79 | 6.4 | 0.23 | 0.75 | 2.75 | 0.57 | 20 | | |
| 25 | 12.51 | 12.51 | 33.430 | 25.274 | 269.4 | 0.071 | 5.28 | 87.3 | 8.9 | 0.99 | 9.4 | 0.29 | 0.70 | 2.32 | 0.71 | 25 | 206 | |
| 30 ISL | 12.11 | D 12.11 | 33.430 | D 25.350 | 262.2 | 0.084 | 5.29 | D 86.8 | 8.4 | 0.97 | 9.0 | 0.28 | 0.69 | 2.51 | 0.82 | 30 | | |
| 32 A | 12.11 | 12.11 | 33.420 | 25.343 | 263.0 | 0.089 | 5.36 | 87.9 | 8.2 | 0.96 | 8.7 | 0.27 | 0.69 | 2.61 | 0.84 | 32 | 205 | |
| 41 | 11.92 | 11.91 | 33.452 | 25.403 | 257.4 | 0.113 | 5.04 | 82.3 | 10.8 | 1.15 | 10.8 | 0.30 | 0.72 | 2.39 | 0.70 | 41 | 204 | |
| 50 | 11.90 | 11.89 | 33.452 | 25.407 | 257.3 | 0.136 | 5.05 | 82.5 | 10.8 | 1.10 | 10.8 | 0.28 | 0.71 | 2.60 | 0.75 | 50 | 203 | |
| 60 | 11.85 | 11.84 | 33.453 | 25.418 | 256.5 | 0.162 | 4.90 | 79.9 | 11.5 | 1.15 | 11.3 | 0.28 | 0.68 | 2.31 | 0.62 | 60 | 202 | |
| 65 | 11.71 | 11.70 | 33.460 | 25.449 | 253.6 | 0.174 | 4.60 | 74.8 | 13.1 | 1.21 | 12.6 | 0.26 | 0.57 | 2.07 | 0.55 | 65 | 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; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 12.97 | 12.97 | 33.361 | 25.130 | 282.4 | 0.000 | 7.25 | 121.0 | 0.5 | 0.28 | 0.7 | 0.07 | 0.02 | 6.40 | 0.83 | 0 | | |
| 2 | 12.97 | 12.97 | 33.361 | 25.130 | 282.5 | 0.006 | 7.25 | 121.0 | 0.5 | 0.28 | 0.7 | 0.07 | 0.02 | 6.40 | 0.83 | 2 | 221 | |
| 10 | 12.16 | 12.16 | 33.369 | 25.293 | 267.1 | 0.028 | 6.26 | 102.7 | 3.8 | 0.61 | 5.4 | 0.22 | 0.29 | 6.38 | 0.43 | 10 | 219 | |
| 10 | 12.19 | 12.19 | 33.364 | 25.283 | 268.1 | 0.028 | | | | | | | | | | 10 | 220 | |
| 20 | 11.93 | 11.93 | 33.375 | 25.341 | 262.8 | 0.054 | 5.74 | 93.7 | 6.3 | 0.81 | 7.8 | 0.23 | 0.68 | 4.42 | 1.83 | 20 | 218 | |
| 30 | 11.34 | 11.34 | 33.454 | 25.512 | 246.8 | 0.080 | 4.79 | 77.3 | 12.3 | 1.24 | 13.5 | 0.20 | 0.50 | 1.69 | 1.30 | 30 | 217 | |
| 39 | 11.08 | 11.08 | 33.556 | 25.638 | 235.0 | 0.101 | 4.23 | 67.9 | 16.3 | 1.41 | 16.5 | 0.20 | 0.29 | 1.67 | 0.66 | 39 | 216 | |
| 50 | 10.82 | 10.81 | 33.610 | 25.727 | 226.8 | 0.127 | 3.92 | 62.6 | 18.6 | 1.53 | 18.2 | 0.18 | 0.20 | 1.97 | 0.64 | 50 | 215 | |
| 59 | 10.18 | 10.17 | 33.724 | 25.927 | 208.0 | 0.146 | 3.12 | 49.2 | 23.9 | 1.82 | 22.7 | 0.12 | 0.00 | 0.87 | 0.50 | 59 | 214 | |
| 71 | 9.84 | 9.83 | 33.787 | 26.033 | 198.0 | 0.171 | 2.85 | 44.6 | 26.0 | 1.91 | 24.5 | 0.05 | 0.00 | 0.41 | 0.28 | 71 | 213 | |
| 75 ISL | 9.83 | D 9.82 | 33.798 | D 26.044 | 197.1 | 0.179 | 2.82 | D 44.1 | 26.7 | 1.94 | 24.9 | 0.04 | 0.00 | 0.39 | 0.30 | 75 | | |
| 85 | 9.64 | 9.63 | 33.866 | 26.129 | 189.3 | 0.198 | 2.56 | 39.9 | 28.5 | 2.01 | 25.8 | 0.03 | 0.00 | 0.35 | 0.36 | 85 | 212 | |
| 99 | 9.55 | 9.54 | 33.913 | 26.180 | 184.6 | 0.224 | 2.36 | 36.7 | 30.5 | 2.09 | 26.6 | 0.03 | 0.00 | 0.24 | 0.20 | 100 | 211 | |
| 100 ISL | 9.55 | D 9.54 | 33.917 | D 26.183 | 184.4 | 0.226 | 2.35 | D 36.6 | 30.6 | 2.09 | 26.7 | 0.03 | 0.00 | 0.23 | 0.20 | 101 | | |
| 121 | 9.42 | 9.41 | 33.979 | 26.254 | 178.2 | 0.264 | 2.12 | 32.9 | 32.4 | 2.18 | 27.6 | 0.01 | 0.00 | 0.17 | 0.24 | 122 | 210 | |
| 125 ISL | 9.40 | D 9.39 | 33.989 | D 26.265 | 177.2 | 0.271 | 2.12 | D 32.9 | 32.7 | 2.19 | 27.8 | 0.01 | 0.00 | 0.17 | 0.25 | 126 | | |
| 140 | 9.28 | 9.26 | 34.021 | 26.309 | 173.2 | 0.297 | 1.96 | 30.3 | 33.9 | 2.24 | 28.3 | 0.00 | 0.00 | 0.17 | 0.27 | 141 | 209 | |
| 150 ISL | 9.25 | D 9.23 | 34.045 | D 26.333 | 171.2 | 0.315 | 1.90 | D 29.4 | 34.7 | 2.27 | 28.7 | 0.00 | 0.00 | 0.14 | 0.25 | 151 | | |
| 170 | 9.11 | 9.09 | 34.091 | 26.392 | 166.0 | 0.348 | 1.72 | 26.5 | 36.3 | 2.32 | 29.4 | 0.00 | 0.00 | 0.08 | 0.19 | 171 | 208 | |
| 200 | 8.94 | 8.92 | 34.119 | 26.442 | 161.8 | 0.397 | 1.64 | 25.2 | 37.8 | 2.32 | 29.8 | 0.00 | 0.00 | 0.06 | 0.12 | 201 | 207 | |
| 230 | 8.81 | 8.79 | 34.154 | 26.490 | 157.8 | 0.445 | 1.44 | 22.1 | 40.1 | 2.42 | 30.7 | 0.00 | 0.00 | | | 231 | 206 | |
| 250 ISL | 8.71 | D 8.68 | 34.160 | D 26.510 | 156.2 | 0.477 | 1.42 | D 21.7 | 41.9 | 2.46 | 31.3 | 0.00 | 0.00 | | | 252 | | |
| 270 | 8.45 | 8.42 | 34.178 | 26.565 | 151.3 | 0.508 | 1.27 | 19.3 | 44.0 | 2.50 | 31.9 | 0.00 | 0.00 | | | 272 | 205 | |
| 300 ISL | 8.20 | D 8.17 | 34.204 | D 26.624 | 146.1 | 0.552 | 1.08 | D 16.3 | 48.3 | 2.60 | 33.2 | 0.00 | 0.00 | | | 302 | | |
| 320 | 7.88 | 7.85 | 34.217 | 26.682 | 140.8 | 0.581 | 0.91 | 13.7 | 51.3 | 2.67 | 34.1 | 0.00 | 0.00 | | | 322 | 204 | |
| 381 | 7.26 | 7.22 | 34.216 | 26.770 | 133.0 | 0.664 | 0.74 | 10.9 | 58.1 | 2.80 | 36.1 | 0.00 | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 12.96 | 12.96 | 33.422 | 25.179 | 277.7 | 0.000 | 7.34 | 122.6 | 0.6 | 0.27 | 1.5 | 0.13 | 0.04 | 8.89 | 0.71 | 0 | |
| 2 | 12.96 | 12.96 | 33.422 | 25.179 | 277.8 | 0.006 | 7.34 | 122.6 | 0.6 | 0.27 | 1.5 | 0.13 | 0.04 | 8.89 | 0.71 | 2 | 220 |
| 10 | 12.37 | 12.37 | 33.357 | 25.244 | 271.8 | 0.028 | 7.06 | 116.4 | 1.2 | 0.32 | 1.5 | 0.10 | 0.06 | 9.26 | 1.08 | 10 | 219 |
| 20 | 12.25 | 12.25 | 33.353 | 25.264 | 270.2 | 0.055 | 6.73 | 110.6 | 1.2 | 0.35 | 2.3 | 0.11 | 0.11 | 10.59 | 1.19 | 20 | 218 |
| 30 | 12.20 | 12.20 | 33.360 | 25.279 | 269.0 | 0.082 | 6.38 | 104.8 | 2.2 | 0.52 | 3.9 | 0.14 | 0.34 | 8.88 | 0.98 | 30 | 217 |
| 40 | 12.04 | 12.03 | 33.461 | 25.388 | 258.9 | 0.108 | 5.76 | 94.3 | 6.3 | 0.85 | 8.7 | 0.20 | 0.35 | 6.46 | 0.89 | 40 | 216 |
| 50 | 11.58 | 11.57 | 33.513 | 25.514 | 247.1 | 0.133 | 5.15 | 83.5 | 11.9 | 1.21 | 13.3 | 0.27 | 0.23 | 3.75 | 0.71 | 50 | 215 |
| 60 | 10.89 | 10.88 | 33.600 | 25.707 | 229.0 | 0.157 | 4.05 | 64.8 | 18.0 | 1.53 | 18.1 | 0.22 | 0.15 | 1.59 | 0.55 | 60 | 214 |
| 70 | 10.01 | 10.00 | 33.772 | 25.993 | 201.9 | 0.179 | 2.84 | 44.6 | 25.8 | 1.94 | 24.3 | 0.06 | 0.00 | 0.71 | 0.38 | 70 | 213 |
| 75 ISL | 9.88 D | 9.87 | 33.785 D | 26.025 | 198.9 | 0.189 | 2.84 | 44.5 | 26.7 | 1.97 | 24.8 | 0.05 | 0.00 | 0.77 | 0.40 | 75 | |
| 85 | 9.69 | 9.68 | 33.836 | 26.097 | 192.3 | 0.208 | 2.60 | 40.6 | 28.4 | 2.04 | 25.8 | 0.02 | 0.00 | 0.89 | 0.48 | 85 | 212 |
| 100 | 9.61 | 9.60 | 33.883 | 26.147 | 187.9 | 0.237 | 2.41 | 37.5 | 29.7 | 2.10 | 26.6 | 0.03 | 0.00 | 0.55 | 0.39 | 101 | 211 |
| 120 | 9.26 | 9.25 | 33.943 | 26.251 | 178.3 | 0.273 | 2.38 | 36.8 | 31.4 | 2.12 | 27.5 | 0.00 | 0.00 | 0.25 | 0.27 | 121 | 210 |
| 125 ISL | 9.26 D | 9.25 | 33.934 D | 26.244 | 179.1 | 0.282 | 2.39 | 36.9 | 31.9 | 2.15 | 27.7 | 0.00 | 0.00 | 0.21 | 0.24 | 126 | |
| 141 | 9.30 | 9.28 | 34.017 | 26.303 | 173.8 | 0.311 | 1.97 | 30.5 | 33.8 | 2.24 | 28.4 | 0.00 | 0.00 | 0.14 | 0.18 | 142 | 209 |
| 150 ISL | 9.23 D | 9.21 | 34.050 D | 26.340 | 170.5 | 0.326 | 1.88 | 29.1 | 35.0 | 2.28 | 28.9 | 0.00 | 0.00 | 0.13 | 0.16 | 151 | |
| 170 | 8.93 | 8.91 | 34.097 | 26.425 | 162.7 | 0.359 | 1.68 | 25.8 | 38.0 | 2.36 | 30.0 | 0.00 | 0.00 | 0.11 | 0.14 | 171 | 208 |
| 200 | 8.45 | 8.43 | 34.170 | 26.558 | 150.6 | 0.406 | 1.28 | 19.5 | 44.1 | 2.52 | 32.0 | 0.00 | 0.00 | 0.09 | 0.16 | 201 | 207 |
| 230 | 7.51 | 7.49 | 34.100 | 26.642 | 142.7 | 0.450 | 1.56 | 23.2 | 49.5 | 2.52 | 33.8 | 0.00 | 0.00 | | 231 | 206 | |
| 250 ISL | 7.24 D | 7.22 | 34.115 D | 26.692 | 138.2 | 0.478 | 1.39 | 20.5 | 52.8 | 2.57 | 34.8 | 0.00 | 0.00 | | 252 | | |
| 270 | 6.99 | 6.96 | 34.104 | 26.718 | 135.9 | 0.506 | 1.30 | 19.1 | 55.8 | 2.65 | 35.7 | 0.00 | 0.00 | | 272 | 205 | |
| 300 ISL | 7.17 D | 7.14 | 34.188 D | 26.760 | 132.5 | 0.546 | 0.92 | 13.6 | 59.0 | 2.77 | 36.4 | 0.00 | 0.00 | | 302 | | |
| 320 | 7.05 | 7.02 | 34.216 | 26.799 | 129.1 | 0.572 | 0.74 | 10.9 | 60.9 | 2.85 | 36.8 | 0.00 | 0.00 | | 322 | 204 | |
| 381 | 6.55 | 6.52 | 34.254 | 26.897 | 120.4 | 0.648 | 0.50 | 7.3 | 69.2 | 2.97 | 38.6 | 0.00 | 0.00 | | 384 | 203 | |
| 400 ISL | 6.45 D | 6.41 | 34.256 D | 26.912 | 119.2 | 0.671 | 0.52 | 7.5 | 70.9 | 3.00 | 38.9 | 0.00 | 0.00 | | 403 | | |
| 441 | 6.26 | 6.22 | 34.271 | 26.949 | 116.1 | 0.719 | 0.41 | 5.9 | 74.1 | 3.04 | 39.4 | 0.00 | 0.00 | | 444 | 202 | |
| 500 ISL | 6.00 D | 5.96 | 34.300 D | 27.005 | 111.4 | 0.786 | 0.36 | 5.2 | 79.0 | 3.10 | 40.3 | 0.00 | 0.00 | | 504 | | |
| 516 | 5.92 | 5.87 | 34.308 | 27.022 | 109.9 | 0.804 | 0.29 | 4.2 | 80.3 | 3.11 | 40.5 | 0.00 | 0.00 | | 520 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 80.0 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 | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.06 | 13.06 | 33.143 | 24.943 | 300.2 | 0.000 | 6.00 | 100.2 | 4.6 | 0.57 | 3.6 | 0.19 | 0.23 | 0.60 | 0.15 | 0 | |
| 2 | 13.06 | 13.06 | 33.143 | 24.943 | 300.2 | 0.006 | 6.00 | 100.2 | 4.6 | 0.57 | 3.6 | 0.19 | 0.23 | 0.60 | 0.15 | 2 | 220 |
| 10 | 13.05 | 13.05 | 33.146 | 24.948 | 300.0 | 0.030 | 6.01 | 100.4 | 4.6 | 0.55 | 3.7 | 0.19 | 0.22 | 0.79 | 0.15 | 10 | 219 |
| 20 | 13.02 | 13.02 | 33.149 | 24.956 | 299.5 | 0.060 | 6.02 | 100.5 | 4.7 | 0.55 | 3.7 | 0.20 | 0.21 | 0.76 | 0.29 | 20 | 218 |
| 29 | 12.92 | 12.92 | 33.147 | 24.975 | 297.9 | 0.087 | 6.05 | 100.8 | 4.7 | 0.55 | 3.7 | 0.20 | 0.19 | 0.84 | 0.25 | 29 | 217 |
| 30 ISL | 12.92 D | 12.92 | 33.146 D | 24.974 | 298.0 | 0.090 | 6.07 | 101.1 | 4.7 | 0.55 | 3.7 | 0.20 | 0.19 | 0.84 | 0.25 | 30 | |
| 40 | 12.91 | 12.90 | 33.147 | 24.977 | 298.0 | 0.120 | 6.03 | 100.4 | 4.8 | 0.56 | 3.8 | 0.20 | 0.21 | 0.88 | 0.23 | 40 | 216 |
| 50 | 12.90 | 12.89 | 33.174 | 25.000 | 296.1 | 0.149 | 5.97 | 99.4 | 5.2 | 0.59 | 4.2 | 0.25 | 0.29 | 0.65 | 0.30 | 50 | 215 |
| 60 | 12.62 | 12.61 | 33.188 | 25.066 | 290.1 | 0.179 | 5.76 | 95.3 | 6.0 | 0.69 | 5.6 | 0.35 | 0.27 | 0.33 | 0.22 | 60 | 214 |
| 70 | 10.85 | 10.84 | 33.333 | 25.506 | 248.2 | 0.206 | 4.41 | 70.3 | 14.0 | 1.36 | 16.5 | 0.02 | 0.00 | 0.10 | 0.12 | 70 | 213 |
| 75 ISL | 10.23 D | 10.22 | 33.402 D | 25.667 | 233.0 | 0.218 | 4.08 | 64.2 | 16.8 | 1.54 | 19.2 | 0.02 | 0.00 | 0.08 | 0.11 | 75 | |
| 85 | 9.77 | 9.76 | 33.491 | 25.814 | 219.1 | 0.240 | 3.76 | 58.6 | 21.0 | 1.73 | 22.0 | 0.01 | 0.00 | 0.04 | 0.09 | 85 | 212 |
| 100 | 9.28 | 9.27 | 33.636 | 26.008 | 201.0 | 0.272 | 3.33 | 51.4 | 25.8 | 1.92 | 25.0 | 0.00 | 0.00 | 0.03 | 0.09 | 100 | 211 |
| 119 | 9.20 | 9.19 | 33.832 | 26.174 | 185.6 | 0.308 | 2.51 | 38.7 | 30.1 | 2.11 | 28.0 | 0.00 | 0.00 | 0.03 | 0.08 | 120 | 210 |
| 125 ISL | 9.03 D | 9.02 | 33.874 D | 26.234 | 180.0 | 0.319 | 2.52 | 38.7 | 30.9 | 2.12 | 28.3 | 0.00 | 0.00 | 0.03 | 0.08 | 126 | |
| 140 | 8.92 | 8.91 | 33.907 | 26.278 | 176.1 | 0.346 | 2.42 | 37.1 | 52.4 | 2.14 | 28.7 | 0.00 | 0.00 | 0.03 | 0.07 | 141 | 209 |
| 150 ISL | 8.80 D | 8.78 | 33.940 D | 26.322 | 172.0 | 0.364 | 2.44 | 37.3 | 33.8 | 2.17 | 29.2 | 0.00 | 0.00 | 0.02 | 0.06 | 151 | |
| 170 | 8.57 | 8.55 | 34.010 | 26.413 | 163.7 | 0.397 | 2.08 | 31.7 | 36.6 | 2.23 | 30.2 | 0.00 | 0.00 | 0.00 | 0.05 | 171 | 208 |
| 199 | 8.08 | 8.06 | 34.024 | 26.499 | 156.0 | 0.443 | 2.04 | 30.7 | 40.2 | 2.30 | 31.3 | 0.00 | 0.00 | 0.00 | 0.04 | 200 | 207 |
| 200 ISL | 7.94 D | 7.92 | 34.033 D | 26.526 | 153.3 | 0.445 | 2.04 | 30.6 | 40.4 | 2.30 | 31.3 | 0.00 | 0.00 | | 201 | | |
| 230 | 7.48 | 7.46 | 34.029 | 26.590 | 147.6 | 0.490 | 2.02 | 30.0 | 46.1 | 2.38 | 32.5 | 0.00 | 0.00 | | 231 | 206 | |
| 250 ISL | 7.28 D | 7.26 | 34.045 D | 26.631 | 143.9 | 0.519 | 1.87 | 27.6 | 48.9 | 2.45 | 33.5 | 0.00 | 0.00 | | 251 | | |
| 270 | 7.14 | 7.11 | 34.055 | 26.659 | 141.6 | 0.548 | 1.65 | 24.3 | 51.7 | 2.54 | 34.5 | 0.00 | 0.00 | | 272 | 205 | |
| 300 ISL | 6.84 D | 6.81 | 34.081 D | 26.721 | 136.0 | 0.589 | 1.35 | 19.8 | 57.3 | 2.68 | 36.2 | 0.00 | 0.00 | | 302 | | |
| 320 | 6.60 | 6.57 | 34.091 | 26.761 | 132.4 | 0.616 | 1.16 | 16.9 | 61.0 | 2.77 | 37.3 | 0.00 | 0.00 | | 322 | 204 | |
| 380 | 6.41 | 6.38 | 34.174 | 26.852 | 124.5 | 0.693 | 0.69 | 10.0 | 68.1 | 2.95 | 38.7 | 0.00 | 0.00 | | 382 | 203 | |
| 400 ISL | 6.39 D | 6.35 | 34.204 D | 26.878 | 122.3 | 0.718 | 0.61 | 8.8 | 70.1 | 3.00 | 39.1 | 0.00 | 0.00 | | 403 | | |
| 441 | 6.13 | 6.09 | 34.220 | 26.925 | 118.2 | 0.767 | 0.49 | 7.1 | 74.3 | 3.08 | 39.8 | 0.00 | 0.00 | | 444 | 202 | |
| 500 ISL | 5.82 D | 5.78 | 34.262 D | 26.998 | 11 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 80.0 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 | SVA | 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 | um/l | um/l | ug/l | ug/l | db | |
| 33 29.5 N | 122 32.0 W | 26/01/11 | 1437 | UTC | 4003 m | 310 | 07 kn | | | 1017.4 mb | 12.5 C | 11.5 C | | | | | |
| 0 ISL | 13.80 | 13.80 | 32.953 | 24.647 | 328.4 | 0.000 | 6.03 | 102.2 | 2.9 | 0.34 | 0.4 | 0.01 | 0.08 | 0.54 | 0.11 | 0 | |
| 3 | 13.80 | 13.80 | 32.953 | 24.647 | 328.4 | 0.010 | 6.03 | 102.2 | 2.9 | 0.34 | 0.4 | 0.01 | 0.08 | 0.54 | 0.11 | 3 | 220 |
| 10 | 13.14 | 13.14 | 32.921 | 24.756 | 318.3 | 0.032 | 6.10 | 101.9 | 3.8 | 0.42 | 1.5 | 0.05 | 0.05 | 0.48 | 0.12 | 10 | 219 |
| 20 | 12.81 | 12.81 | 32.997 | 24.880 | 306.7 | 0.064 | 6.09 | 101.1 | 4.4 | 0.51 | 2.8 | 0.11 | 0.08 | 0.59 | 0.18 | 20 | 218 |
| 30 | 12.76 | 12.76 | 33.010 | 24.900 | 305.1 | 0.094 | 6.07 | 100.7 | 4.5 | 0.52 | 3.0 | 0.12 | 0.09 | 0.58 | 0.19 | 30 | 217 |
| 39 | 12.91 | 12.90 | 33.124 | 24.959 | 299.7 | 0.122 | 6.04 | 100.5 | 4.7 | 0.54 | 3.7 | 0.14 | 0.08 | 0.57 | 0.22 | 39 | 216 |
| 50 | 12.12 | 12.11 | 33.086 | 25.082 | 288.2 | 0.154 | 5.78 | 94.6 | 6.1 | 0.72 | 6.0 | 0.22 | 0.12 | 0.40 | 0.22 | 50 | 215 |
| 61 | 11.02 | 11.01 | 33.133 | 25.320 | 265.7 | 0.184 | 5.40 | 86.3 | 9.0 | 0.98 | 10.3 | 0.04 | 0.00 | 0.16 | 0.16 | 61 | 214 |
| 70 | 9.87 | 9.86 | 33.181 | 25.555 | 243.4 | 0.207 | 4.90 | 76.4 | 14.2 | 1.29 | 15.1 | 0.01 | 0.00 | 0.08 | 0.11 | 70 | 213 |
| 75 ISL | 9.92 D | 9.91 | 33.402 D | 25.719 | 227.9 | 0.219 | 4.14 D | 64.7 | 16.9 | 1.46 | 17.8 | 0.01 | 0.00 | 0.05 | 0.09 | 75 | |
| 85 | 9.63 | 9.62 | 33.552 | 25.885 | 212.4 | 0.241 | 3.69 | 57.4 | 21.5 | 1.74 | 22.3 | 0.00 | 0.00 | 0.02 | 0.07 | 85 | 212 |
| 99 | 9.24 | 9.23 | 33.710 | 26.072 | 194.9 | 0.270 | 3.30 | 50.9 | 25.7 | 1.88 | 24.8 | 0.00 | 0.00 | 0.01 | 0.05 | 99 | 211 |
| 100 ISL | 9.24 D | 9.23 | 33.712 D | 26.073 | 194.7 | 0.272 | 3.30 D | 50.9 | 25.9 | 1.89 | 24.9 | 0.00 | 0.00 | 0.01 | 0.05 | 100 | |
| 120 | 8.88 | 8.87 | 33.800 | 26.200 | 183.1 | 0.309 | 3.01 | 46.1 | 29.2 | 1.99 | 26.7 | 0.00 | 0.00 | 0.01 | 0.04 | 121 | 210 |
| 125 ISL | 8.80 D | 8.79 | 33.823 D | 26.230 | 180.3 | 0.318 | 2.97 D | 45.4 | 29.8 | 2.00 | 26.9 | 0.00 | 0.00 | 0.01 | 0.04 | 126 | |
| 139 | 8.60 | 8.59 | 33.860 | 26.291 | 174.8 | 0.343 | 2.94 | 44.8 | 31.5 | 2.03 | 27.5 | 0.00 | 0.00 | 0.01 | 0.05 | 140 | 209 |
| 150 ISL | 8.43 D | 8.41 | 33.919 D | 26.363 | 168.1 | 0.362 | 2.75 D | 41.7 | 33.2 | 2.08 | 28.2 | 0.00 | 0.00 | 0.01 | 0.04 | 151 | |
| 170 | 8.26 | 8.24 | 33.968 | 26.427 | 162.3 | 0.395 | 2.45 | 37.0 | 36.4 | 2.17 | 29.7 | 0.00 | 0.00 | 0.00 | 0.03 | 171 | 208 |
| 200 | 7.94 | 7.92 | 34.015 | 26.512 | 154.7 | 0.443 | 2.15 | 32.3 | 40.8 | 2.29 | 31.3 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | 207 |
| 230 | 7.54 | 7.52 | 34.035 | 26.586 | 148.0 | 0.488 | 1.93 | 28.7 | 45.8 | 2.39 | 32.7 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 7.44 D | 7.42 | 34.078 D | 26.635 | 143.7 | 0.517 | 1.57 D | 23.3 | 49.1 | 2.49 | 33.8 | 0.00 | 0.00 | | | 251 | |
| 274 | 7.26 | 7.23 | 34.094 | 26.673 | 140.4 | 0.551 | 1.37 | 20.3 | 53.0 | 2.61 | 35.1 | 0.00 | 0.00 | | | 276 | 205 |
| 300 ISL | 7.14 D | 7.11 | 34.143 D | 26.729 | 135.5 | 0.587 | 1.06 D | 15.6 | 57.3 | 2.73 | 36.4 | 0.00 | 0.00 | | | 302 | |
| 319 | 6.83 | 6.80 | 34.136 | 26.766 | 132.1 | 0.613 | 0.95 | 13.9 | 60.3 | 2.81 | 37.3 | 0.00 | 0.00 | | | 321 | 204 |
| 380 | 6.45 | 6.42 | 34.187 | 26.857 | 124.1 | 0.691 | 0.64 | 9.3 | 68.7 | 2.96 | 38.9 | 0.00 | 0.00 | | | 382 | 203 |
| 400 ISL | 6.25 D | 6.21 | 34.176 D | 26.874 | 122.5 | 0.715 | 0.65 D | 9.4 | 71.3 | 3.01 | 39.4 | 0.00 | 0.00 | | | 403 | |
| 441 | 5.93 | 5.89 | 34.192 | 26.928 | 117.7 | 0.765 | 0.54 | 7.7 | 76.2 | 3.09 | 40.4 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 5.68 D | 5.64 | 34.238 D | 26.996 | 111.9 | 0.832 | 0.39 D | 5.6 | 82.3 | 3.18 | 41.3 | 0.00 | 0.00 | | | 503 | |
| 517 | 5.61 | 5.57 | 34.262 | 27.023 | 109.4 | 0.851 | 0.32 | 4.6 | 84.1 | 3.21 | 41.5 | 0.00 | 0.00 | | | 521 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | um/l | um/l | ug/l | ug/l | db | |
| 33 8.8 N | 123 13.4 W | 26/01/11 | 2157 | UTC | 4240 m | 350 | 06 kn | 320 02 05 | 2 | 1018.7 mb | 12.8 C | 12.2 C | 16m | 8/8 | ST | | |
| 0 ISL | 13.10 | 13.10 | 32.948 | 24.784 | 315.3 | 0.000 | 6.16 | 102.9 | 4.3 | 0.46 | 2.0 | 0.06 | 0.01 | 0.48 | 0.10 | 0 | |
| 3 | 13.10 | 13.10 | 32.948 | 24.785 | 315.4 | 0.009 | 6.16 | 102.8 | 4.3 | 0.46 | 2.0 | 0.06 | 0.01 | 0.48 | 0.10 | 3 | 224 |
| 10 | 12.57 | 12.57 | 32.942 | 24.884 | 306.1 | 0.031 | 6.21 | 102.5 | 4.8 | 0.53 | 2.9 | 0.09 | 0.02 | 0.62 | 0.19 | 10 | 223 |
| 19 | 12.49 | 12.49 | 32.943 | 24.900 | 304.8 | 0.059 | 6.17 | 101.7 | 5.0 | 0.54 | 3.0 | 0.10 | 0.00 | 0.81 | 0.26 | 19 | 222 |
| 20 ISL | 12.49 D | 12.49 | 32.946 D | 24.902 | 304.6 | 0.062 | 6.20 | 1010.2 | 5.0 | 0.54 | 3.0 | 0.10 | 0.00 | 0.81 | 0.27 | 20 | |
| 30 | 12.42 | 12.42 | 32.968 | 24.933 | 301.9 | 0.092 | 6.14 | 101.1 | 5.2 | 0.57 | 3.5 | 0.11 | 0.01 | 0.82 | 0.33 | 30 | 221 |
| 39 | 12.26 | 12.25 | 33.061 | 25.036 | 292.3 | 0.119 | 6.15 | 100.9 | 5.8 | 0.62 | 4.4 | 0.17 | 0.04 | 0.78 | 0.41 | 39 | 220 |
| 50 | 11.73 | 11.72 | 33.101 | 25.166 | 280.2 | 0.150 | 5.84 | 94.8 | 6.9 | 0.78 | 6.8 | 0.34 | 0.04 | 0.38 | 0.24 | 50 | 219 |
| 59 | 10.97 | 10.96 | 33.117 | 25.317 | 266.0 | 0.175 | 5.31 | 84.8 | 8.8 | 0.95 | 9.8 | 0.03 | 0.00 | 0.14 | 0.11 | 59 | 218 |
| 69 | 10.16 | 10.15 | 33.189 | 25.513 | 247.5 | 0.201 | 4.97 | 78.0 | 12.8 | 1.21 | 13.9 | 0.01 | 0.00 | 0.09 | 0.07 | 69 | 217 |
| 75 ISL | 10.03 D | 10.02 | 33.235 D | 25.571 | 242.1 | 0.215 | 4.78 D | 74.8 | 15.3 | 1.36 | 16.4 | 0.00 | 0.00 | 0.06 | 0.07 | 75 | |
| 85 | 9.73 | 9.72 | 33.392 | 25.743 | 225.8 | 0.239 | 4.13 | 64.3 | 19.3 | 1.59 | 20.0 | 0.00 | 0.00 | 0.03 | 0.07 | 85 | 216 |
| 100 ISL | 9.43 D | 9.42 | 33.567 | 25.929 | 208.4 | 0.271 | 3.54 | 54.8 | 23.6 | 1.82 | 23.6 | 0.00 | 0.00 | 0.02 | 0.04 | 100 | 215 |
| 119 | 9.27 | 9.26 | 33.751 | 26.099 | 192.7 | 0.309 | 2.88 | 44.5 | 28.1 | 2.03 | 26.7 | 0.00 | 0.00 | 0.01 | 0.05 | 120 | 214 |
| 125 ISL | 9.20 D | 9.19 | 33.795 D | 26.145 | 188.4 | 0.321 | 2.78 D | 42.9 | 29.4 | 2.09 | 27.4 | 0.00 | 0.00 | 0.01 | 0.05 | 126 | |
| 140 | 9.05 | 9.03 | 33.908 | 26.258 | 178.0 | 0.348 | 2.34 | 36.0 | 32.4 | 2.20 | 28.8 | 0.00 | 0.00 | 0.00 | 0.04 | 141 | 213 |
| 150 ISL | 8.90 D | 8.88 | 33.958 D | 26.321 | 172.2 | 0.366 | 2.21 D | 33.9 | 34.2 | 2.24 | 29.5 | 0.00 | 0.00 | 0.00 | 0.04 | 151 | |
| 170 | 8.67 | 8.65 | 34.010 | 26.398 | 165.2 | 0.399 | 1.94 | 29.6 | 37.2 | 2.30 | 30.6 | 0.00 | 0.00 | 0.00 | 0.03 | 171 | 212 |
| 200 | 8.38 | 8.36 | 34.047 | 26.472 | 158.7 | 0.448 | 1.80 | 27.3 | 40.1 | 2.38 | 31.6 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | 211 |
| 230 | 7.82 | 7.80 | 34.059 | 26.565 | 150.2 | 0.494 | 1.81 | 27.1 | 44.9 | 2.44 | 32.6 | 0.00 | 0.00 | | | 231 | 210 |
| 250 ISL | 7.62 D | 7.60 | 34.094 D | 26.622 | 145.0 | 0.524 | 1.40 D | 20.9 | 49.0 | 2.56 | 33.9 | 0.00 | 0.00 | | | 251 | |
| 270 | 7.34 | 7.31 | 34.093 | 26.661 | 141.5 | 0.553 | 1.32 | 19.5 | 53.0 | 2.68 | 35.3 | 0.00 | 0.00 | | | 272 | 209 |
| 300 ISL | 7.19 D | 7.16 | 34.144 D | 26.722 | 136.1 | 0.594 | 1.08 D | 15.9 | 56.5 | 2.77 | 36.1 | 0.00 | 0.00 | | | 302 | |
| 320 | 7.16 | 7.13 | 34.166 | 26.744 | 134.3 | 0.621 | 0.92 | 13.6 | 58.5 | 2.82 | 36.5 | 0.00 | 0.00 | | | 322 | 208 |
| 380 | 6.46 | 6.43 | 34.181 | 26.851 | 124.6 | 0.69 | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.62 | 13.62 | 32.796 | 24.563 | 336.4 | 0.000 | 6.07 | 102.4 | 2.4 | 0.34 | 0.2 | 0.00 | 0.00 | 0.40 | 0.09 | 0 | | |
| 2 | 13.62 | 13.62 | 32.796 | D 24.563 | 336.5 | 0.007 | 6.07 | 102.4 | 2.4 | 0.34 | 0.2 | 0.00 | 0.00 | 0.40 | 0.09 | 2 | 220 | |
| 10 | 13.63 | 13.63 | 32.799 | 24.563 | 336.6 | 0.034 | 6.07 | 102.4 | 2.3 | 0.34 | 0.2 | 0.00 | 0.00 | 0.40 | 0.09 | 10 | 219 | |
| 20 | 13.52 | 13.52 | 32.789 | 24.578 | 335.5 | 0.067 | 6.08 | 102.3 | 2.3 | 0.35 | 0.2 | 0.01 | 0.00 | 0.51 | 0.12 | 20 | 218 | |
| 30 ISL | 13.17 | D 13.17 | 32.894 | D 24.730 | 321.3 | 0.100 | 6.02 | 100.6 | 3.1 | 0.44 | 1.5 | 0.12 | 0.01 | 0.74 | 0.20 | 30 | | |
| 31 | 13.18 | 13.18 | 32.901 | 24.733 | 321.0 | 0.103 | 6.02 | 100.6 | 3.2 | 0.45 | 1.6 | 0.13 | 0.01 | 0.76 | 0.21 | 31 | 217 | |
| 40 | 12.88 | 12.87 | 32.942 | 24.824 | 312.6 | 0.132 | 6.08 | 101.0 | 3.8 | 0.49 | 2.4 | 0.14 | 0.01 | 0.85 | 0.30 | 40 | 216 | |
| 50 | 12.69 | 12.68 | 32.953 | 24.870 | 308.4 | 0.163 | 6.12 | 101.3 | 4.1 | 0.51 | 2.8 | 0.15 | 0.02 | 0.81 | 0.31 | 50 | 215 | |
| 61 | 12.33 | 12.32 | 32.952 | 24.939 | 302.2 | 0.196 | 6.04 | 99.2 | 4.7 | 0.57 | 3.8 | 0.20 | 0.08 | 0.57 | 0.27 | 61 | 214 | |
| 70 | 12.15 | 12.14 | 33.016 | 25.022 | 294.4 | 0.223 | 5.75 | 94.1 | 5.0 | 0.67 | 5.3 | 0.17 | 0.01 | 0.32 | 0.20 | 70 | 213 | |
| 75 ISL | 11.76 | D 11.75 | 33.066 | D 25.134 | 283.8 | 0.238 | 5.74 | D 93.2 | 5.4 | 0.71 | 6.0 | 0.17 | 0.01 | 0.24 | 0.18 | 75 | | |
| 85 | 11.55 | 11.54 | 33.112 | 25.209 | 276.9 | 0.266 | 5.63 | 91.0 | 6.8 | 0.81 | 7.8 | 0.17 | 0.00 | 0.16 | 0.15 | 85 | 212 | |
| 100 | 10.49 | 10.48 | 33.148 | 25.425 | 256.5 | 0.306 | 5.07 | 80.1 | 10.5 | 1.06 | 12.0 | 0.02 | 0.00 | 0.08 | 0.08 | 100 | 211 | |
| 120 | 9.69 | 9.68 | 33.475 | 25.815 | 219.7 | 0.353 | 3.84 | 59.8 | 20.6 | 1.68 | 21.7 | 0.00 | 0.00 | 0.02 | 0.06 | 121 | 210 | |
| 125 ISL | 9.65 | D 9.64 | 33.550 | D 25.881 | 213.6 | 0.364 | 3.54 | D 55.1 | 22.5 | 1.77 | 23.2 | 0.00 | 0.00 | 0.02 | 0.06 | 126 | | |
| 140 | 9.34 | 9.32 | 33.727 | 26.070 | 195.9 | 0.395 | 2.94 | 45.5 | 27.1 | 1.97 | 26.3 | 0.00 | 0.00 | 0.01 | 0.05 | 141 | 209 | |
| 150 ISL | 9.28 | D 9.26 | 33.774 | D 26.116 | 191.7 | 0.414 | 2.80 | D 43.3 | 29.1 | 2.05 | 27.5 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | | |
| 171 | 9.00 | 8.98 | 33.919 | 26.275 | 177.0 | 0.453 | 2.33 | 35.8 | 32.1 | 2.14 | 28.8 | 0.00 | 0.00 | 0.00 | 0.04 | 172 | 208 | |
| 200 | 8.58 | 8.56 | 34.005 | 26.408 | 164.8 | 0.503 | 2.09 | 31.8 | 36.2 | 2.23 | 30.3 | 0.00 | 0.00 | 0.00 | 0.04 | 201 | 207 | |
| 230 | 8.28 | 8.26 | 34.059 | 26.497 | 156.8 | 0.551 | 1.75 | 26.5 | 40.8 | 2.35 | 31.8 | 0.00 | 0.00 | | | 231 | 206 | |
| 250 ISL | 8.14 | D 8.11 | 34.095 | D 26.546 | 152.5 | 0.582 | 1.54 | D 23.2 | 42.9 | 2.41 | 32.5 | 0.00 | 0.00 | | | 251 | | |
| 270 | 7.95 | 7.92 | 34.086 | 26.568 | 150.7 | 0.612 | 1.53 | 23.0 | 44.9 | 2.46 | 33.1 | 0.00 | 0.00 | | | 272 | 205 | |
| 300 ISL | 7.49 | D 7.46 | 34.087 | D 26.635 | 144.5 | 0.656 | 1.55 | D 23.0 | 48.7 | 2.52 | 34.0 | 0.00 | 0.00 | | | 302 | | |
| 320 | 7.40 | 7.37 | 34.106 | 26.663 | 142.2 | 0.685 | 1.36 | 20.2 | 51.5 | 2.57 | 34.6 | 0.00 | 0.00 | | | 322 | 204 | |
| 380 | 6.81 | 6.77 | 34.148 | 26.778 | 131.8 | 0.767 | 0.92 | 13.5 | 61.2 | 2.80 | 37.2 | 0.00 | 0.00 | | | 382 | 203 | |
| 400 ISL | 6.65 | D 6.61 | 34.177 | D 26.823 | 127.8 | 0.793 | 0.75 | D 10.9 | 63.8 | 2.85 | 37.8 | 0.00 | 0.00 | | | 403 | | |
| 440 | 6.43 | 6.39 | 34.207 | 26.876 | 123.1 | 0.843 | 0.60 | 8.7 | 68.9 | 2.94 | 38.8 | 0.00 | 0.00 | | | 443 | 202 | |
| 500 ISL | 5.88 | D 5.84 | 34.234 | D 26.968 | 114.7 | 0.915 | 0.44 | D 6.3 | 77.9 | 3.06 | 40.3 | 0.00 | 0.00 | | | 503 | | |
| 515 | 5.82 | 5.78 | 34.243 | 26.983 | 113.5 | 0.932 | 0.38 | 5.4 | 80.1 | 3.09 | 40.7 | 0.00 | 0.00 | | | 518 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 81.7 43.5

| 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 | 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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.31 | 13.31 | 33.250 | 24.976 | 297.0 | 0.000 | 6.21 | 104.3 | 4.5 | 0.46 | 0.7 | 0.09 | 1.07 | 3.11 | 0.64 | 0 | | |
| 2 | 13.31 | 13.31 | 33.250 | 24.976 | 297.1 | 0.006 | 6.21 | 104.3 | 4.5 | 0.46 | 0.7 | 0.09 | 1.07 | 3.11 | 0.64 | 2 | 204 | |
| 5 | 13.30 | 13.30 | 33.250 | 24.978 | 297.0 | 0.015 | 6.19 | 104.0 | 4.4 | 0.46 | 0.7 | 0.09 | 1.04 | 3.28 | 0.55 | 5 | 203 | |
| 10 | 13.05 | 13.05 | 33.274 | 25.047 | 290.6 | 0.030 | 5.75 | 96.1 | 5.3 | 0.60 | 1.5 | 0.13 | 1.56 | 1.64 | 0.55 | 10 | 202 | |
| 15 | 13.07 | 13.07 | 33.272 | 25.042 | 291.2 | 0.044 | 5.82 | 97.3 | 4.9 | 0.60 | 1.4 | 0.12 | 1.45 | 1.87 | 0.57 | 15 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 81.8 46.9

| 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 | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.781 | 13.781 | 33.278 | 24.902 | 304.1 | 0.000 | 7.00 | 118.8 | 1.0 | 0.19 | 0.1 | 0.00 | 0.00 | | | 0 | | |
| 2 | 13.781 | 13.781 | 33.278 | 24.902 | 304.1 | 0.006 | 7.00 | 118.8 | 1.0 | 0.19 | 0.1 | 0.00 | 0.00 | 0.93 | 0.22 | 2 | 224 | |
| 10 | 13.45 | 13.45 | 33.274 | 24.967 | 298.2 | 0.030 | 7.05 | 118.8 | 1.1 | 0.20 | 0.1 | 0.00 | 0.02 | 1.55 | 0.35 | 10 | 223 | |
| 20 | 13.08 | 13.08 | 33.308 | 25.068 | 288.9 | 0.060 | 5.97 | 99.9 | 2.7 | 0.53 | 2.5 | 0.11 | 0.73 | 1.40 | 0.62 | 20 | 222 | |
| 30 | 12.75 | 12.75 | 33.339 | 25.157 | 280.6 | 0.088 | 5.49 | 91.2 | 5.4 | 0.74 | 5.6 | 0.20 | 0.76 | 0.88 | 0.36 | 30 | 221 | |
| 41 | 12.45 | 12.44 | 33.385 | 25.251 | 272.0 | 0.118 | 5.27 | 87.0 | 7.0 | 0.86 | 7.6 | 0.21 | 0.66 | 1.07 | 0.51 | 41 | 220 | |
| 50 | 12.23 | 12.22 | 33.404 | 25.308 | 266.8 | 0.143 | 5.01 | 82.4 | 8.6 | 0.98 | 9.4 | 0.25 | 0.56 | 1.19 | 0.55 | 50 | 219 | |
| 59 | 11.95 | 11.94 | 33.435 | 25.385 | 259.6 | 0.166 | 4.74 | 77.5 | 10.6 | 1.10 | 11.5 | 0.24 | 0.26 | 1.24 | 0.63 | 59 | 218 | |
| 71 | 11.35 | 11.34 | 33.502 | 25.548 | 244.3 | 0.197 | 4.16 | 67.1 | 14.8 | 1.33 | 15.2 | 0.19 | 0.15 | 1.03 | 0.70 | 71 | 217 | |
| 75 ISL | 10.95 | D 10.94 | 33.526 | D 25.639 | 235.8 | 0.206 | 4.00 | D 64.0 | 16.6 | 1.44 | 16.9 | 0.15 | 0.10 | 0.84 | 0.62 | | 75 | |
| 86 | 10.52 | 10.51 | 33.617 | 25.785 | 222.0 | 0.231 | 3.22 | 51.1 | 21.4 | 1.73 | 21.2 | 0.05 | 0.00 | 0.33 | 0.37 | 86 | 216 | |
| 100 ISL | 10.11 | D 10.10 | 33.765 | D 25.971 | 204.6 | 0.261 | 2.75 | D 43.3 | 2.53 | 2.9 | 3.04 | 0.00 | 0.00 | 0.26 | 0.29 | 101 | | |
| 101 | 10.11 | 10.10 | 33.762 | 25.969 | 204.9 | 0.263 | 2.72 | 42.8 | 2.55 | 1.94 | 24.0 | 0.04 | 0.00 | 0.26 | 0.29 | 102 | 215 | |
| 121 | 10.00 | 9.99 | 33.802 | 26.019 | 200.5 | 0.304 | 2.61 | 41.0 | 27.0 | 1.98 | 24.6 | 0.03 | 0.00 | 0.19 | 0.19 | 122 | 214 | |
| 125 ISL | 9.77 | D 9.76 | 33.895 | D 26.130 | 190.0 | 0.312 | 2.42 | D 37.8 | 28.1 | 2.02 | 25.2 | 0.03 | 0.00 | 0.17 | 0.19 | 126 | | |
| 140 | 9.45 | 9.43 | 33.997 | 26.263 | 177.7 | 0.339 | 2.05 | 31.8 | 32.6 | 2.18 | 27.7 | 0.01 | 0.00 | 0.10 | 0.1 | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 83.3 39.4

| 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 | SVA | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.46 | 13.46 | 33.281 | 24.970 | 297.6 | 0.000 | 6.88 | 116.0 | 0.5 | 0.20 | 0.1 | 0.01 | 0.00 | 3.25 | 0.62 | 0 | |
| 2 | 13.46 | 13.46 | 33.281 | 24.970 | 297.7 | 0.006 | 6.88 | 116.0 | 0.5 | 0.20 | 0.1 | 0.01 | 0.00 | 3.25 | 0.62 | 2 | 205 |
| 5 | 13.45 | 13.45 | 33.280 | 24.971 | 297.6 | 0.015 | 6.85 | 115.4 | 0.6 | 0.20 | 0.1 | 0.01 | 0.00 | 3.31 | 0.62 | 5 | 204 |
| 10 | 13.41 | 13.41 | 33.281 | 24.980 | 296.9 | 0.030 | 6.74 | 113.5 | 0.8 | 0.30 | 0.2 | 0.03 | 0.12 | 3.92 | 0.69 | 10 | 202 |
| 10 | 13.40 | 13.40 | 33.283 | 24.984 | 296.6 | 0.030 | | | | | | | | | | 10 | 203 |
| 15 | 13.36 | 13.36 | 33.283 | 24.992 | 295.9 | 0.045 | 6.42 | 108.0 | 1.5 | 0.38 | 0.3 | 0.06 | 0.40 | 4.41 | 0.71 | 15 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.01 | 14.01 | 33.300 | 24.872 | 306.9 | 0.000 | 6.57 | 112.0 | 0.8 | 0.24 | 0.3 | 0.02 | 0.03 | 1.84 | 0.25 | 0 | |
| 2 | 14.01 | 14.01 | 33.300 | 24.872 | 307.0 | 0.006 | 6.57 | 112.0 | 0.8 | 0.24 | 0.3 | 0.02 | 0.03 | 1.84 | 0.25 | 2 | 206 |
| 5 | 13.83 | 13.83 | 33.293 | 24.904 | 304.0 | 0.015 | 6.66 | 113.1 | 0.6 | 0.22 | 0.3 | 0.00 | 0.03 | 1.31 | 0.22 | 5 | 205 |
| 10 | 13.30 | 13.30 | 33.315 | 25.029 | 292.3 | 0.030 | 6.07 | 102.0 | 3.0 | 0.50 | 2.6 | 0.12 | 0.37 | 2.87 | 0.55 | 10 | 203 |
| 10 | 13.31 | 13.31 | 33.316 | 25.028 | 292.4 | 0.030 | | | | | | | | | | 10 | 204 |
| 20 | 13.28 | 13.28 | 33.319 | 25.036 | 291.9 | 0.059 | 6.03 | 101.3 | 3.1 | 0.52 | 2.7 | 0.13 | 0.42 | 3.05 | 0.64 | 20 | 202 |
| 30 | 13.20 | 13.20 | 33.322 | 25.055 | 290.4 | 0.089 | 5.89 | 98.8 | 3.9 | 0.61 | 3.5 | 0.16 | 0.61 | 2.72 | 0.69 | 30 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.15 | 14.15 | 33.325 | 24.862 | 307.9 | 0.000 | 6.74 | 115.3 | 0.3 | 0.15 | 0.1 | 0.00 | 0.00 | 2.31 | 0.34 | 0 | |
| 2 | 14.15 | 14.15 | 33.325 | 24.862 | 307.9 | 0.006 | 6.74 | 115.3 | 0.3 | 0.15 | 0.1 | 0.00 | 0.00 | 2.31 | 0.34 | 2 | 213 |
| 10 | 13.45 | 13.45 | 33.344 | 25.021 | 293.0 | 0.030 | 6.91 | 116.5 | 0.4 | 0.18 | 0.2 | 0.01 | 0.00 | 2.36 | 0.40 | 10 | 211 |
| 10 | 13.45 | 13.45 | 33.342 | 25.020 | 293.2 | 0.030 | | | | | | | | | | 10 | 212 |
| 20 | 12.89 | 12.89 | 33.348 | 25.136 | 282.3 | 0.059 | 6.64 | 110.6 | 1.0 | 0.29 | 1.3 | 0.07 | 0.03 | 5.11 | 0.77 | 20 | 210 |
| 30 | 12.21 | 12.21 | 33.386 | 25.297 | 267.2 | 0.086 | 5.25 | 86.3 | 7.2 | 0.87 | 8.5 | 0.21 | 0.20 | 2.62 | 0.69 | 30 | 209 |
| 40 | 11.41 | 11.41 | 33.434 | 25.484 | 249.7 | 0.112 | 4.30 | 69.5 | 13.5 | 1.31 | 15.1 | 0.15 | 0.00 | 0.92 | 0.47 | 40 | 208 |
| 50 | 10.93 | 10.92 | 33.485 | 25.610 | 237.9 | 0.137 | 3.92 | 62.7 | 16.4 | 1.47 | 17.8 | 0.05 | 0.00 | 0.74 | 0.43 | 50 | 207 |
| 60 | 10.71 | 10.70 | 33.613 | 25.749 | 225.0 | 0.160 | 3.54 | 56.4 | 20.0 | 1.61 | 19.3 | 0.10 | 0.11 | 0.79 | 0.52 | 60 | 206 |
| 69 | 10.51 | 10.50 | 33.622 | 25.791 | 221.1 | 0.180 | 3.34 | 53.0 | 21.4 | 1.69 | 20.7 | 0.06 | 0.04 | 0.60 | 0.40 | 69 | 205 |
| 75 ISL | 10.33 D | 10.32 D | 33.635 D | 25.832 | 217.3 | 0.193 | 3.22 | 50.9 | 22.2 | 1.74 | 21.5 | 0.04 | 0.02 | 0.49 | 0.35 | 75 | |
| 85 | 10.25 | 10.24 | 33.684 | 25.884 | 212.6 | 0.215 | 3.02 | 47.6 | 23.6 | 1.82 | 22.6 | 0.01 | 0.00 | 0.34 | 0.29 | 85 | 204 |
| 100 | 10.05 | 10.04 | 33.785 | 25.997 | 202.2 | 0.246 | 2.68 | 42.1 | 26.5 | 1.95 | 24.1 | 0.03 | 0.00 | 0.25 | 0.26 | 101 | 203 |
| 120 | 10.01 | 10.00 | 33.802 | 26.018 | 200.7 | 0.286 | 2.63 | 41.3 | 27.1 | 1.99 | 24.4 | 0.03 | 0.00 | 0.21 | 0.30 | 121 | 202 |
| 125 ISL | 9.99 D | 9.98 | 33.813 D | 26.030 | 199.6 | 0.296 | 2.61 D | 41.0 | 27.2 | 1.99 | 24.6 | 0.03 | 0.00 | 0.19 | 0.33 | 126 | |
| 126 | 9.99 | 9.98 | 33.813 | 26.030 | 199.6 | 0.298 | 2.59 | 40.7 | 27.2 | 1.99 | 24.6 | 0.03 | 0.00 | 0.19 | 0.33 | 127 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 12.73 | 12.73 | 33.462 | 25.255 | 270.5 | 0.000 | 5.24 | 87.1 | 9.9 | 0.94 | 8.7 | 0.13 | 0.34 | 0.95 | 0.29 | 0 | |
| 2 A | 12.73 | 12.73 | 33.462 | 25.255 | 270.5 | 0.005 | 5.24 | 87.1 | 9.9 | 0.94 | 8.7 | 0.13 | 0.34 | 0.95 | 0.29 | 2 | 214 |
| 7 A | 12.62 | 12.62 | 33.462 | 25.277 | 268.6 | 0.019 | 5.17 | 85.7 | 10.0 | 0.95 | 8.9 | 0.13 | 0.30 | 1.02 | 0.34 | 7 | 213 |
| 8 A | 12.58 | 12.58 | 33.465 | 25.287 | 267.7 | 0.022 | 5.19 | 86.0 | 10.0 | 0.96 | 8.9 | 0.13 | 0.29 | 1.00 | 0.31 | 8 | 212 |
| 10 ISL | 12.48 D | 12.48 | 33.465 D | 25.306 | 265.9 | 0.027 | 5.15 D | 85.1 | 10.2 | 0.99 | 9.2 | 0.13 | 0.29 | 1.01 | 0.31 | 10 | |
| 12 A | 12.48 | 12.48 | 33.468 | 25.309 | 265.7 | 0.032 | 5.10 | 84.3 | 10.4 | 1.01 | 9.5 | 0.13 | 0.29 | 1.05 | 0.32 | 12 | 210 |
| 12 | 12.47 | 12.47 | 33.465 | 25.308 | 265.7 | 0.032 | | | | | | | | | | 12 | 211 |
| 17 A | 12.40 | 12.40 | 33.478 | 25.332 | 263.6 | 0.045 | 5.11 | 84.3 | 10.3 | 0.99 | 9.5 | 0.13 | 0.26 | 1.05 | 0.32 | 17 | 209 |
| 20 ISL | 12.18 D | 12.18 | 33.479 D | 25.375 | 259.6 | 0.053 | 5.02 D | 82.5 | 11.4 | 1.06 | 10.7 | 0.13 | 0.24 | 1.03 | 0.32 | 20 | |
| 26 | 11.66 | 11.66 | 33.519 | 25.504 | 247.5 | 0.069 | 4.44 | 72.2 | 14.5 | 1.25 | 13.8 | 0.13 | 0.21 | 0.97 | 0.34 | 26 | 208 |
| 30 ISL | 11.16 D | 11.16 | 33.550 D | 25.619 | 236.6 | 0.078 | 4.24 D | 68.2 | 16.4 | 1.37 | 15.5 | 0.13 | 0.20 | 0.91 | 0.37 | 30 | |
| 36 A | 10.90 | 10.90 | 33.603 | 25.707 | 228.4 | 0.092 | 3.80 | 60.8 | 19.0 | 1.52 | 17.8 | 0.12 | 0.18 | 0.81 | 0.39 | 36 | 207 |
| 44 | 10.56 | 10.55 | 33.645 | 25.799 | 2 | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 12.11 | 12.11 | 33.481 | 25.389 | 257.7 | 0.000 | 5.92 | 97.1 | 8.6 | 0.90 | 9.7 | 0.25 | 0.29 | 2.15 | 0.50 | 0 | |
| 3 | 12.11 | 12.11 | 33.481 | 25.389 | 257.8 | 0.008 | 5.92 | 97.1 | 8.6 | 0.90 | 9.7 | 0.25 | 0.29 | 2.15 | 0.50 | 3 | 221 |
| 10 | 12.10 | 12.10 | 33.484 | 25.394 | 257.6 | 0.026 | 5.88 | 96.4 | 8.8 | 0.91 | 9.8 | 0.25 | 0.30 | 2.28 | 0.46 | 10 | 219 |
| 10 | 12.09 | 12.09 | 33.489 | 25.399 | 257.0 | 0.026 | | | | | | | | | | | 10 220 |
| 20 | 11.67 | 11.67 | 33.537 | 25.516 | 246.2 | 0.051 | 5.26 | 85.5 | 13.3 | 1.19 | 13.2 | 0.23 | 0.43 | 1.49 | 0.55 | 20 | 218 |
| 30 ISL | 10.94 D | 10.94 | 33.540 D | 25.650 | 233.6 | 0.075 | 4.36 D | 69.8 | 17.2 | 1.46 | 17.4 | 0.18 | 0.21 | 0.86 | 0.39 | 30 | |
| 31 | 10.81 | 10.81 | 33.552 | 25.683 | 230.5 | 0.077 | 4.28 | 68.3 | 17.7 | 1.49 | 17.9 | 0.17 | 0.18 | 0.80 | 0.37 | 31 | 217 |
| 41 | 9.98 | 9.98 | 33.732 | 25.966 | 203.8 | 0.099 | 2.94 | 46.1 | 25.4 | 1.90 | 24.1 | 0.04 | 0.00 | 0.14 | 0.20 | 41 | 216 |
| 50 | 9.85 | 9.84 | 33.775 | 26.022 | 198.7 | 0.117 | 2.75 | 43.0 | 26.8 | 1.96 | 24.9 | 0.03 | 0.00 | 0.11 | 0.18 | 50 | 215 |
| 60 | 9.76 | 9.75 | 33.836 | 26.085 | 192.9 | 0.137 | 2.53 | 39.5 | 28.5 | 2.03 | 25.8 | 0.02 | 0.00 | 0.08 A | 0.17 A | 60 | 214 |
| 70 | 9.71 | 9.70 | 33.859 | 26.111 | 190.6 | 0.156 | 2.44 | 38.1 | 29.3 | 2.06 | 26.2 | 0.01 | 0.00 | 0.07 B | 0.15 B | 70 | 213 |
| 75 ISL | 9.62 D | 9.61 | 33.901 D | 26.159 | 186.2 | 0.165 | 2.38 D | 37.1 | 29.9 | 2.09 | 26.5 | 0.01 | 0.00 | 0.06 | 0.15 | 75 | |
| 84 | 9.54 | 9.53 | 33.933 | 26.197 | 182.7 | 0.182 | 2.22 | 34.5 | 31.3 | 2.16 | 27.2 | 0.00 | 0.00 | 0.05 | 0.14 | 84 | 212 |
| 99 | 9.38 | 9.37 | 33.998 | 26.275 | 175.7 | 0.209 | 2.00 | 31.0 | 33.6 | 2.24 | 28.2 | 0.01 | 0.00 | 0.06 | 0.10 | 100 | 211 |
| 100 ISL | 9.37 D | 9.36 | 33.999 D | 26.277 | 175.5 | 0.210 | 2.02 D | 31.3 | 33.7 | 2.24 | 28.3 | 0.01 | 0.00 | 0.06 | 0.10 | 101 | |
| 120 | 9.25 | 9.24 | 34.062 | 26.346 | 169.3 | 0.245 | 1.80 | 27.8 | 35.5 | 2.30 | 29.0 | 0.00 | 0.00 | 0.01 | 0.13 | 121 | 210 |
| 125 ISL | 9.24 D | 9.23 | 34.072 D | 26.356 | 168.5 | 0.253 | 1.77 D | 27.4 | 35.8 | 2.31 | 29.1 | 0.00 | 0.00 | 0.01 | 0.12 | 126 | |
| 140 | 9.19 | 9.17 | 34.094 | 26.381 | 166.4 | 0.279 | 1.66 | 25.6 | 36.8 | 2.32 | 29.3 | 0.00 | 0.00 | 0.01 | 0.09 | 141 | 209 |
| 150 ISL | 9.14 D | 9.12 | 34.110 D | 26.402 | 164.6 | 0.295 | 1.63 D | 25.2 | 37.5 | 2.34 | 29.6 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | |
| 169 | 8.94 | 8.92 | 34.135 | 26.453 | 160.0 | 0.326 | 1.57 | 24.1 | 39.0 | 2.39 | 30.2 | 0.00 | 0.00 | 0.01 | 0.05 | 170 | 208 |
| 200 | 8.38 | 8.36 | 34.124 | 26.532 | 153.0 | 0.374 | 1.60 | 24.3 | 42.5 | 2.42 | 31.4 | 0.00 | 0.00 | 0.01 | 0.06 | 201 | 207 |
| 231 | 8.23 | 8.21 | 34.170 | 26.591 | 147.9 | 0.421 | 1.28 | 19.4 | 46.4 | 2.56 | 32.6 | 0.00 | 0.00 | | 232 | 206 | |
| 250 ISL | 8.11 D | 8.08 | 34.193 D | 26.628 | 144.7 | 0.449 | 1.12 D | 16.9 | 48.8 | 2.62 | 33.3 | 0.00 | 0.00 | | 252 | | |
| 270 | 7.86 | 7.83 | 34.192 | 26.664 | 141.5 | 0.478 | 1.03 | 15.4 | 51.2 | 2.67 | 34.0 | 0.00 | 0.00 | | 272 | 205 | |
| 300 ISL | 7.74 D | 7.71 | 34.221 D | 26.705 | 138.1 | 0.519 | 0.85 D | 12.7 | 53.9 | 2.73 | 34.7 | 0.00 | 0.00 | | 302 | | |
| 321 | 7.63 | 7.60 | 34.227 | 26.726 | 136.5 | 0.548 | 0.80 | 11.9 | 55.7 | 2.76 | 35.1 | 0.00 | 0.00 | | 323 | 204 | |
| 382 | 7.18 | 7.14 | 34.239 | 26.800 | 130.2 | 0.630 | 0.64 | 9.5 | 61.5 | 2.88 | 36.6 | 0.00 | 0.00 | | 385 | 203 | |
| 400 ISL | 7.04 D | 7.00 | 34.241 D | 26.821 | 128.3 | 0.653 | 0.61 D | 9.0 | 64.0 | 2.92 | 37.2 | 0.00 | 0.00 | | 403 | | |
| 444 | 6.56 | 6.52 | 34.249 | 26.892 | 121.8 | 0.708 | 0.52 | 7.6 | 70.2 | 3.01 | 38.5 | 0.00 | 0.00 | | 447 | 202 | |
| 500 ISL | 6.22 D | 6.18 | 34.278 D | 26.960 | 115.9 | 0.774 | 0.39 D | 5.6 | 76.4 | 3.09 | 39.6 | 0.00 | 0.00 | | 504 | | |
| 511 | 6.16 | 6.11 | 34.288 | 26.976 | 114.5 | 0.787 | 0.36 | 5.2 | 77.6 | 3.10 | 39.8 | 0.00 | 0.00 | | 515 | 201 | |

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

B) SECOND FLUOROMETER READING NOT RECORDED, 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 12.61 | 12.61 | 33.207 | 25.081 | 287.1 | 0.000 | 5.98 | 99.0 | 6.5 | 0.69 | 5.8 | 0.18 | 0.04 | 0.82 | 0.22 | 0 | |
| 3 | 12.61 | 12.61 | 33.207 | 25.081 | 287.1 | 0.009 | 5.98 | 99.0 | 6.5 | 0.69 | 5.8 | 0.18 | 0.04 | 0.82 | 0.22 | 3 | 221 |
| 10 | 12.62 | 12.62 | 33.211 | 25.082 | 287.2 | 0.029 | 5.98 | 99.0 | 6.4 | 0.70 | 5.8 | 0.18 | 0.05 | 0.85 | 0.24 | 10 | 219 |
| 10 | 12.62 | 12.62 | 33.209 | 25.081 | 287.3 | 0.029 | | | | | | | | | | 10 220 | |
| 20 | 12.57 | 12.57 | 33.226 | 25.104 | 285.4 | 0.057 | 6.00 | 99.2 | 6.5 | 0.71 | 5.9 | 0.20 | 0.05 | 1.03 | 0.33 | 20 | 218 |
| 30 ISL | 12.48 | 12.48 | 33.249 | 25.139 | 282.3 | 0.086 | 5.98 | 98.7 | 6.9 | 0.75 | 6.4 | 0.23 | 0.15 | 1.23 | 0.43 | 30 | 217 |
| 40 | 12.41 | 12.40 | 33.253 | 25.156 | 280.9 | 0.114 | 5.94 | 97.9 | 7.2 | 0.77 | 6.9 | 0.24 | 0.09 | 1.11 | 0.40 | 40 | 216 |
| 49 | 11.91 | 11.90 | 33.300 | 25.287 | 268.6 | 0.139 | 5.46 | 89.1 | 9.1 | 0.96 | 9.5 | 0.51 | 0.19 | 0.19 | 0.18 | 49 | 215 |
| 50 ISL | 11.35 D | 11.34 | 33.278 D | 25.373 | 260.4 | 0.141 | 5.44 D | 87.7 | 9.5 | 1.00 | 10.1 | 0.48 | 0.18 | 0.18 | 0.17 | 50 | |
| 60 | 10.63 | 10.62 | 33.276 | 25.500 | 248.6 | 0.167 | 4.56 | 72.4 | 13.9 | 1.33 | 15.7 | 0.05 | 0.00 | 0.10 | 0.10 | 60 | 214 |
| 70 | 10.01 | 10.00 | 33.367 | 25.677 | 231.9 | 0.191 | 4.36 | 68.3 | 17.0 | 1.44 | 17.9 | 0.06 | 0.02 | 0.19 | 0.11 | 70 | 213 |
| 75 ISL | 9.73 D | 9.72 | 33.428 D | 25.771 | 223.0 | 0.202 | 4.19 D | 65.3 | 18.3 | 1.50 | 18.9 | 0.05 | 0.02 | 0.15 | 0.10 | 75 | |
| 84 | 9.63 | 9.62 | 33.457 | 25.811 | 219.4 | 0.222 | 3.98 | 61.9 | 20.7 | 1.62 | 20.7 | 0.02 | 0.00 | 0.04 | 0.08 | 84 | 212 |
| 100 ISL | 9.19 D | 9.18 | 33.698 D | 26.071 | 195.0 | 0.255 | 3.25 D | 50.1 | 26.6 | 1.89 | 25.0 | 0.00 | 0.00 | 0.01 | 0.06 | 101 | |
| 101 | 9.20 | 9.19 | 33.689 | 26.062 | 195.9 | 0.257 | 3.23 | 49.8 | 27.0 | 1.91 | 25.3 | 0.00 | 0.00 | 0.01 | 0.06 | 102 | 211 |
| 120 | 8.89 | 8.88 | 33.866 | 26.250 | 178.3 | 0.293 | 2.69 | 41.2 | 31.4 | 2.07 | 27.8 | 0.00 | 0.00 | 0.01 | 0.08 | 121 | 210 |
| 125 ISL | 8.82 D | 8.81 | 33.910 D | 26.295 | 174.1 | 0.301 | 2.61 D | 39.9 | 32.2 | 2.09 | 28.1 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | |
| 140 | 8.65 | 8.64 | 33.951 | 26.354 | 168.8 | 0.327 | 2.48 | 37.8 | 34.3 | 2.12 | 28.7 | 0.00 | 0.00 | 0.01 | 0.07 | 141 | 209 |
| 150 ISL | 8.43 D | 8.41 | 33.979 D | 26.410 | 163.6 | 0.344 | 2.51 D | 38.1 | 35.6 | 2.13 | 29.0 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | |
| 170 | 8.19 | 8.17 | 34.010 | 26.471 | 158.1 | 0.376 | 2.41 | 36.4 | 38.2 | 2.15 | 29.5 | 0.00 | 0.00 | 0.00 | 0.07 | 171 | 208 |
| 200 | 7.97 | 7.95 | 34.051 | 26.536 | 152.4 | 0.423 | 2.09 | 31.4 | 42.2 | 2.29 | 31.1 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 230 | 7.83 | 7.81 | 34.095 | 26.592 | 147.6 | 0.468 | 1.66 | 24.9 | 46.3 | 2.44 | 32.6 | 0.00 | 0.00 | | 231 | 206 | |
| 250 ISL | 7.77 D | 7.75 | 34.139 D | 26.635 | 143.8 | 0.497 | 1.38 D | 20.6 | 49.4 | 2.52 | 33.6 | 0.00 | 0.00 | | 252 | | |
| 271 | 7.28 | 7.25 | 34.105 | 26.679 | 139.8 | 0.527 | 1.37 | 20.3 | 52.8 | 2.59 | 34.7 | 0.00 | 0.00 | </td | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 13.680 | 13.680 | 33.074 | 24.765 | 317.1 | 0.000 | 6.09 | 103.0 | 3.6 | 0.38 | 1.2 | 0.05 | 0.01 | 0.67 | 0.09 | 0 |
| 2 | | 13.680 | 13.680 | 33.074 | 24.766 | 317.2 | 0.006 | 6.09 | 103.0 | 3.6 | 0.38 | 1.2 | 0.05 | 0.01 | 0.67 | 0.09 | 2 222 |
| 10 | | 13.55 | 13.55 | 33.073 | 24.791 | 314.9 | 0.032 | 6.08 | D102.5 | | | | | | | | 10 221 |
| 10 | | 13.55 | 13.55 | 33.073 | 24.791 | 314.9 | 0.032 | 6.01 | 101.4 | 3.6 | 0.40 | 1.5 | 0.06 | 0.00 | 0.74 | 0.13 | 10 220 |
| 20 | | 13.51 | 13.51 | 33.078 | 24.803 | 314.0 | 0.063 | 5.98 | 100.8 | 3.6 | 0.42 | 1.7 | 0.08 | 0.03 | 0.52 | 0.21 | 20 219 |
| 30 | | 13.48 | 13.48 | 33.093 | 24.822 | 312.6 | 0.094 | 5.93 | 99.9 | 3.8 | 0.43 | 2.0 | 0.09 | 0.06 | 0.48 | 0.20 | 30 218 |
| 40 | | 13.21 | 13.20 | 33.133 | 24.907 | 304.7 | 0.125 | 5.74 | 96.2 | 4.7 | 0.54 | 3.8 | 0.11 | 0.06 | 0.37 | 0.18 | 40 217 |
| 50 | | 11.72 | 11.71 | 33.317 | 25.336 | 264.0 | 0.154 | 4.75 | 77.2 | 10.3 | 1.12 | 12.9 | 0.01 | 0.01 | 0.17 | 0.11 | 50 216 |
| 60 | | 11.11 | 11.10 | 33.340 | 25.465 | 251.9 | 0.180 | 4.45 | 71.4 | 13.1 | 1.30 | 15.7 | 0.00 | 0.00 | 0.10 | 0.09 | 60 215 |
| 70 | | 9.87 | 9.86 | 33.429 | 25.749 | 225.0 | 0.203 | 4.02 | 62.8 | 18.9 | 1.58 | 20.3 | 0.00 | 0.00 | 0.03 | 0.05 | 70 214 |
| 75 | ISL | 9.65 | D 9.64 | 33.484 | D 25.828 | 217.6 | 0.214 | 3.96 | D 61.6 | 20.6 | 1.66 | 21.5 | 0.00 | 0.00 | 0.03 | 0.05 | 75 |
| 85 | | 9.55 | 9.54 | 33.566 | 25.909 | 210.1 | 0.236 | 3.57 | 55.4 | 23.0 | 1.76 | 23.1 | 0.00 | 0.00 | 0.02 | 0.04 | 85 213 |
| 100 | | 9.20 | 9.19 | 33.722 | 26.088 | 193.4 | 0.266 | 3.09 | 47.6 | 27.2 | 1.94 | 25.9 | 0.00 | 0.00 | 0.01 | 0.04 | 100 212 |
| 120 | | 9.07 | 9.06 | 33.828 | 26.192 | 183.9 | 0.304 | 2.75 | 42.3 | 29.9 | 2.03 | 27.2 | 0.00 | 0.00 | 0.00 | 0.04 | 121 211 |
| 125 | ISL | 8.86 | D 8.85 | 33.849 | D 26.241 | 179.2 | 0.313 | 2.85 | D 43.6 | 30.6 | 2.04 | 27.5 | 0.00 | 0.00 | 0.00 | 0.04 | 126 |
| 140 | | 8.65 | 8.64 | 33.924 | 26.333 | 170.8 | 0.339 | 2.64 | 40.3 | 32.7 | 2.05 | 28.2 | 0.00 | 0.00 | 0.00 | 0.02 | 141 210 |
| 150 | ISL | 8.50 | D 8.48 | 33.937 | D 26.366 | 167.8 | 0.356 | 2.88 | D 43.8 | 34.0 | 2.06 | 28.5 | 0.00 | 0.00 | 0.00 | 0.02 | 151 |
| 171 | | 8.18 | 8.16 | 33.987 | 26.454 | 159.7 | 0.390 | 2.54 | 38.3 | 36.8 | 2.11 | 29.2 | 0.00 | 0.00 | 0.00 | 0.01 | 172 209 |
| 200 | ISL | 7.79 | D 7.77 | 34.012 | D 26.532 | 152.7 | 0.436 | 2.12 | D 31.7 | 41.9 | 2.30 | 31.6 | 0.00 | 0.00 | 0.00 | 0.02 | 201 |
| 201 | | 7.81 | 7.79 | 34.015 | 26.531 | 152.8 | 0.437 | 2.08 | 31.1 | 42.1 | 2.31 | 31.7 | 0.00 | 0.00 | 0.00 | 0.02 | 202 208 |
| 230 | | 7.45 | 7.43 | 34.025 | 26.591 | 147.5 | 0.481 | 2.08 | 30.9 | 46.0 | 2.35 | 32.3 | 0.00 | 0.00 | | | 231 207 |
| 250 | ISL | 7.63 | D 7.61 | 34.116 | D 26.638 | 143.6 | 0.510 | 1.52 | D 22.7 | 49.2 | 2.50 | 33.6 | 0.00 | 0.00 | | | 251 |
| 271 | | 7.48 | 7.45 | 34.143 | 26.680 | 139.8 | 0.540 | 1.16 | 17.2 | 52.5 | 2.68 | 35.0 | 0.00 | 0.00 | | | 273 206 |
| 300 | ISL | 7.25 | D 7.22 | 34.147 | D 26.716 | 136.7 | 0.580 | 1.05 | D 15.5 | 55.8 | 2.76 | 36.0 | 0.00 | 0.00 | | | 302 |
| 320 | | 7.11 | 7.08 | 34.158 | 26.745 | 134.3 | 0.607 | 0.92 | 13.6 | 57.9 | 2.79 | 36.5 | 0.00 | 0.00 | | | 322 205 |
| 380 | | 6.66 | 6.63 | 34.208 | 26.846 | 125.3 | 0.685 | 0.61 | 8.9 | 66.5 | 2.97 | 38.2 | 0.00 | 0.00 | | | 382 204 |
| 400 | ISL | 6.48 | D 6.44 | 34.215 | D 26.875 | 122.7 | 0.710 | 0.57 | D 8.3 | 68.9 | 3.00 | 38.7 | 0.00 | 0.00 | | | 403 |
| 440 | | 6.23 | 6.19 | 34.238 | 26.926 | 118.2 | 0.758 | 0.48 | 6.9 | 73.3 | 3.04 | 39.5 | 0.00 | 0.00 | | | 443 202 |
| 500 | ISL | 5.88 | D 5.84 | 34.264 | D 26.992 | 112.5 | 0.827 | 0.36 | D 5.2 | 80.1 | 3.10 | 40.5 | 0.00 | 0.00 | | | 503 |
| 511 | | 5.82 | 5.78 | 34.278 | 27.010 | 110.8 | 0.839 | 0.37 | 5.3 | 81.4 | 3.11 | 40.7 | 0.00 | 0.00 | | | 515 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 83.3 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 | 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 | 15.46 | 15.46 | 33.069 | 24.384 | 353.4 | 0.000 | 5.78 | 101.4 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.18 | 0.04 | 0 |
| 2 | | 15.46 | 15.46 | 33.069 | 24.384 | 353.5 | 0.007 | 5.78 | 101.4 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.18 | 0.04 | 2 221 |
| 9 | | 15.34 | 15.34 | 33.053 | 24.398 | 352.4 | 0.032 | | | | | | | | | 9 220 | |
| 10 | | 15.28 | 15.28 | 33.051 | 24.410 | 351.3 | 0.035 | 5.79 | 101.1 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.20 | 0.02 | 10 219 |
| 20 | ISL | 15.28 | D 15.28 | 33.054 | D 24.413 | 351.3 | 0.070 | 5.79 | 101.1 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.19 | 0.04 | 20 |
| 25 | | 15.28 | 15.28 | 33.058 | 24.416 | 351.2 | 0.088 | 5.79 | 101.1 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 25 218 |
| 30 | ISL | 15.28 | D 15.28 | 33.055 | D 24.414 | 351.5 | 0.106 | 5.80 | 101.3 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.19 | 0.05 | 30 |
| 40 | | 15.28 | 15.27 | 33.058 | 24.416 | 351.6 | 0.141 | 5.82 | 101.7 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.22 | 0.04 | 40 217 |
| 50 | | 15.29 | 15.28 | 33.060 | 24.416 | 351.9 | 0.176 | 5.78 | 101.0 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 0.22 | 0.05 | 50 216 |
| 62 | | 13.94 | 13.93 | 33.100 | 24.734 | 321.8 | 0.216 | 5.76 | 97.9 | 3.0 | 0.36 | 0.5 | 0.13 | 0.00 | 0.36 | 0.20 | 62 215 |
| 75 | ISL | 13.16 | D 13.15 | 33.159 | D 24.938 | 302.7 | 0.257 | 5.72 | D 95.7 | 3.5 | 0.40 | 1.5 | 0.06 | 0.00 | 0.27 | 0.14 | 75 |
| 76 | | 13.30 | 13.29 | 33.166 | 24.915 | 304.9 | 0.260 | 5.67 | 95.2 | 3.5 | 0.41 | 1.6 | 0.05 | 0.00 | 0.26 | 0.14 | 76 214 |
| 87 | | 12.66 | 12.65 | 33.170 | 25.045 | 292.8 | 0.293 | 5.58 | 92.4 | 4.4 | 0.56 | 3.9 | 0.01 | 0.00 | 0.13 | 0.08 | 87 213 |
| 99 | | 12.11 | 12.10 | 33.119 | 25.111 | 286.7 | 0.328 | 5.51 | 90.2 | 5.7 | 0.73 | 6.3 | 0.00 | 0.00 | 0.09 | 0.06 | 99 212 |
| 100 | ISL | 12.07 | D 12.06 | 33.126 | D 25.124 | 285.5 | 0.330 | 5.52 | D 90.3 | 5.8 | 0.74 | 6.4 | 0.00 | 0.00 | 0.09 | 0.06 | 100 |
| 111 | | 11.47 | 11.46 | 33.180 | 25.277 | 271.1 | 0.361 | 5.31 | 85.7 | 7.2 | 0.81 | 7.9 | 0.00 | 0.00 | 0.05 | 0.07 | 111 211 |
| 125 | | 10.71 | 10.70 | 33.293 | 25.501 | 250.0 | 0.398 | 4.93 | 78.4 | 10.8 | 1.03 | 11.8 | 0.00 | 0.00 | 0.04 | 0.03 | 126 210 |
| 141 | | 9.93 | 9.91 | 33.396 | 25.714 | 229.8 | 0.436 | 4.48 | 70.1 | 16.1 | 1.35 | 16.8 | 0.00 | 0.00 | 0.01 | 0.03 | 142 209 |
| 150 | ISL | 9.19 | D 9.17 | 33.451 | D 25.878 | 214.2 | 0.456 | 4.31 | D 66.3 | 19.1 | 1.50 | 19.2 | 0.00 | 0.00 | 0.01 | 0.03 | 151 |
| 170 | | 8.98 | 8.96 | 33.650 | 26.067 | 196.6 | 0.497 | 3.72 | 57.0 | 24.6 | 1.73 | 23.0 | 0.00 | 0.00 | 0.00 | 0.02 | 171 208 |
| 200 | ISL | 8.61 | D 8.59 | 33.912 | D 26.331 | 172.1 | 0.552 | 3.68 | D 56.0 | 27.1 | 1.70 | 23.2 | 0.00 | 0.00 | 0.00 | 0.01 | 201 |
| 201 | | 8.78 | 8.76 | 33.907 | 26.301 | 175.1 | 0.554 | 3.73 | 57.0 | 27.2 | 1.70 | 23.2 | 0.00 | 0.00 | 0.00 | 0.01 | 202 207 |
| 231 | | 8.26 | 8.24 | 33.966 | 26.427 | 163.5 | 0.605 | 3.30 | 49.9 | 32.7 | 1.87 | 25.9 | 0.00 | 0.00 | | | 232 206 |
| 250 | ISL | 7.93 | D 7.90 | 33.990 | D 26.495 | 157.2 | 0.635 | 2.85 | D 42.8 | 36.9 | 2.03 | 28.0 | 0.00 | 0.00 | | | 251 |
| 273 | | 7.63 | 7.60 | 34.009 | 26.554 | 151.9 | 0.671 | 2.40 | 35.8 | 42.3 | 2.22 | 30.6 | 0.00 | 0.00 | | | 275 205 |
| 300 | ISL | 7.29 | D 7.26 | 34.032 | D 26.620 | 145.8 | 0.711 | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 34.7 N | 122 48.4 W | 23/01/11 | 1639 | UTC | 4278 m | 270 | 03 kn | 330 03 08 | 1 | 1016.4 mb | 13.9 C | 12.3 C | 16m | 7/8 | SC | |
| 0 ISL | 14.14 | 14.14 | 32.977 | 24.596 | 333.3 | 0.000 | 5.95 | 101.5 | 2.8 | 0.34 | 0.1 | 0.01 | 0.01 | 0.62 | 0.19 | 0 |
| 2 A | 14.14 | 14.14 | 32.977 | 24.596 | 333.3 | 0.007 | 5.95 | 101.5 | 2.8 | 0.34 | 0.1 | 0.01 | 0.01 | 0.62 | 0.19 | 2 223 |
| 10 A | 14.13 | 14.13 | 32.970 | 24.593 | 333.8 | 0.033 | 5.96 | 101.7 | 2.8 | 0.34 | 0.2 | 0.01 | 0.01 | 0.61 | 0.17 | 10 221 |
| 10 | 14.13 | 14.13 | 32.971 | 24.594 | 333.8 | 0.033 | 5.97 | 101.8 | | | | | | | | 10 222 |
| 13 A | 14.17 | 14.17 | 32.988 | 24.598 | 333.4 | 0.043 | 5.96 | 101.8 | 2.8 | 0.33 | 0.1 | 0.01 | 0.01 | 0.58 | 0.17 | 13 220 |
| 17 A | 14.22 | 14.22 | 33.005 | 24.601 | 333.2 | 0.057 | 5.95 | 101.7 | 2.7 | 0.33 | 0.1 | 0.01 | 0.02 | 0.54 | 0.18 | 17 219 |
| 20 ISL | 14.22 D | 14.22 | 33.005 D | 24.601 | 333.3 | 0.067 | 5.97 | D102.0 | 2.7 | 0.33 | 0.1 | 0.01 | 0.02 | 0.54 | 0.18 | 20 |
| 25 A | 14.21 | 14.21 | 33.005 | 24.604 | 333.2 | 0.083 | 5.96 | 101.8 | 2.7 | 0.33 | 0.2 | 0.01 | 0.02 | 0.55 | 0.18 | 25 218 |
| 30 ISL | 14.18 D | 14.18 | 32.995 D | 24.602 | 333.5 | 0.100 | 5.97 | D101.9 | 2.7 | 0.34 | 0.2 | 0.01 | 0.05 | 0.54 | 0.18 | 30 |
| 35 | 14.09 | 14.09 | 32.984 | 24.613 | 332.7 | 0.117 | 5.95 | 101.4 | 2.7 | 0.35 | 0.2 | 0.02 | 0.08 | 0.53 | 0.19 | 35 217 |
| 42 | 13.77 | 13.76 | 32.950 | 24.652 | 329.0 | 0.140 | 5.98 | 101.2 | 2.9 | 0.37 | 0.5 | 0.04 | 0.09 | 0.49 | 0.21 | 42 216 |
| 43 | 13.76 | 13.75 | 32.949 | 24.654 | 328.9 | 0.143 | 5.98 | 101.2 | 3.0 | 0.38 | 0.5 | 0.04 | 0.11 | 0.46 B | 0.23 B | 43 215 |
| 50 ISL | 13.73 D | 13.72 | 32.948 D | 24.659 | 328.6 | 0.166 | 5.99 | D101.3 | 3.0 | 0.38 | 0.5 | 0.04 | 0.12 | 0.45 | 0.22 | 50 |
| 61 | 13.70 | 13.69 | 32.947 | 24.665 | 328.4 | 0.202 | 5.97 | 100.9 | 3.0 | 0.38 | 0.6 | 0.05 | 0.14 | 0.43 | 0.20 | 61 214 |
| 70 | 13.68 | 13.67 | 32.957 | 24.677 | 327.5 | 0.232 | 5.97 | 100.9 | 3.0 | 0.38 | 0.7 | 0.06 | 0.17 | 0.30 | 0.16 | 70 213 |
| 75 ISL | 13.54 D | 13.53 | 32.974 D | 24.719 | 323.6 | 0.248 | 5.93 | D99.9 | 3.2 | 0.41 | 1.2 | 0.05 | 0.12 | 0.23 | 0.14 | 75 |
| 85 | 12.45 | 12.44 | 33.084 | 25.019 | 295.2 | 0.279 | 5.64 | 92.9 | 4.1 | 0.52 | 2.8 | 0.03 | 0.00 | 0.12 | 0.11 | 85 212 |
| 100 | 11.48 | 11.47 | 33.182 | 25.276 | 270.9 | 0.321 | 5.31 | 85.8 | 6.8 | 0.74 | 6.8 | 0.00 | 0.00 | 0.09 | 0.07 | 100 211 |
| 120 | 10.18 | 10.17 | 33.252 | 25.560 | 244.1 | 0.373 | 4.90 | 77.0 | 12.0 | 1.11 | 12.7 | 0.00 | 0.00 | 0.03 | 0.03 | 121 210 |
| 125 ISL | 9.71 D | 9.70 | 33.322 D | 25.693 | 231.5 | 0.385 | 4.66 D | 72.5 | 14.4 | 1.25 | 14.9 | 0.00 | 0.00 | 0.02 | 0.03 | 126 |
| 140 | 9.64 | 9.62 | 33.620 | 25.937 | 208.6 | 0.418 | 3.70 | 57.6 | 21.8 | 1.66 | 21.5 | 0.00 | 0.00 | 0.01 | 0.03 | 141 209 |
| 150 ISL | 9.50 D | 9.48 | 33.707 D | 26.028 | 200.1 | 0.438 | 3.08 D | 47.8 | 25.3 | 1.85 | 24.2 | 0.00 | 0.00 | 0.00 | 0.03 | 151 |
| 170 | 9.29 | 9.27 | 33.845 | 26.171 | 187.0 | 0.477 | 2.50 | 38.6 | 30.2 | 2.09 | 27.4 | 0.00 | 0.00 | 0.00 | 0.03 | 171 208 |
| 200 | 8.85 | 8.83 | 33.948 | 26.322 | 173.1 | 0.531 | 2.38 | 36.5 | 33.4 | 2.16 | 28.5 | 0.00 | 0.00 | 0.00 | 0.03 | 201 207 |
| 230 | 8.16 | 8.14 | 34.004 | 26.472 | 159.2 | 0.581 | 2.26 | 34.1 | 38.7 | 2.24 | 30.1 | 0.00 | 0.00 | | | 231 206 |
| 250 ISL | 7.86 D | 7.84 | 34.016 D | 26.526 | 154.2 | 0.612 | 2.20 D | 33.0 | 41.8 | 2.28 | 31.0 | 0.00 | 0.02 | | | 251 |
| 271 | 7.57 | 7.54 | 34.019 | 26.570 | 150.2 | 0.644 | 2.06 | 30.7 | 45.0 | 2.33 | 32.0 | 0.00 | 0.03 | | | 273 205 |
| 300 ISL | 7.23 D | 7.20 | 34.045 D | 26.639 | 144.0 | 0.687 | 1.77 D | 26.1 | 50.5 | 2.47 | 33.8 | 0.00 | 0.02 | | | 302 |
| 321 | 6.97 | 6.94 | 34.055 | 26.683 | 140.0 | 0.717 | 1.50 | 22.0 | 54.6 | 2.58 | 35.1 | 0.00 | 0.00 | | | 323 204 |
| 381 | 6.31 | 6.28 | 34.075 | 26.787 | 130.6 | 0.798 | 1.16 | 16.8 | 64.6 | 2.76 | 37.6 | 0.00 | 0.00 | | | 383 203 |
| 400 ISL | 6.16 D | 6.12 | 34.100 D | 26.826 | 127.0 | 0.822 | 1.01 D | 14.5 | 67.8 | 2.84 | 38.3 | 0.00 | 0.00 | | | 402 |
| 441 | 5.96 | 5.92 | 34.163 | 26.901 | 120.3 | 0.873 | 0.65 | 9.3 | 74.4 | 3.00 | 39.5 | 0.00 | 0.00 | | | 444 202 |
| 500 ISL | 5.59 D | 5.55 | 34.204 D | 26.980 | 113.3 | 0.942 | 0.49 D | 7.0 | 81.7 | 3.10 | 40.7 | 0.00 | 0.00 | | | 503 |
| 517 | 5.54 | 5.50 | 34.212 | 26.992 | 112.2 | 0.961 | 0.43 | 6.1 | 83.8 | 3.13 | 41.0 | 0.00 | 0.00 | | | 520 201 |

A) PRIMARY PRODUCTIVITY SAMPLES WERE TAKEN FROM THESE LEVELS.

B) FIRST FLUOROMETER READING NOT RECORDED, 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 14.4 N | 123 29.2 W | 23/01/11 | 0912 | UTC | 4202 m | 270 | 10 kn | | | 1014.5 mb | 13.4 C | 12.0 C | 16m | 7/8 | SC | |
| 0 ISL | 14.57 | 14.57 | 32.976 | 24.505 | 341.9 | 0.000 | 5.91 | 101.7 | 2.5 | 0.31 | 0.0 | 0.00 | 0.00 | 0.33 | 0.10 | 0 |
| 2 | 14.57 | 14.57 | 32.976 | 24.505 | 342.0 | 0.007 | 5.91 | 101.7 | 2.5 | 0.31 | 0.0 | 0.00 | 0.00 | 0.33 | 0.10 | 2 221 |
| 10 CSL | 14.57 | 14.57 | 32.978 | 24.507 | 342.0 | 0.034 | 5.92 | 101.9 | | | | | | | | 10 200 |
| 11 | 14.58 | 14.58 | 32.979 | 24.505 | 342.2 | 0.038 | 5.90 | 101.6 | 2.4 | 0.30 | 0.0 | 0.00 | 0.00 | 0.33 | 0.10 | 11 219 |
| 19 | 14.44 | 14.44 | 32.974 | 24.531 | 340.0 | 0.065 | 5.92 | 101.6 | 2.5 | 0.30 | 0.0 | 0.00 | 0.00 | 0.36 | 0.11 | 19 218 |
| 20 ISL | 13.86 D | 13.86 | 32.883 D | 24.582 | 335.2 | 0.068 | 6.06 D | 102.7 | 2.5 | 0.30 | 0.0 | 0.00 | 0.00 | 0.38 | 0.12 | 20 |
| 29 | 13.77 | 13.77 | 32.881 | 24.599 | 333.8 | 0.098 | 6.07 | 102.7 | 2.8 | 0.34 | 0.2 | 0.02 | 0.00 | 0.58 | 0.18 | 29 217 |
| 30 ISL | 13.77 D | 13.77 | 32.878 D | 24.596 | 334.0 | 0.102 | 6.07 D | 102.7 | 2.8 | 0.34 | 0.2 | 0.02 | 0.00 | 0.58 | 0.18 | 30 |
| 40 | 13.64 | 13.63 | 32.877 | 24.622 | 331.8 | 0.135 | 6.05 | 102.1 | 2.9 | 0.35 | 0.3 | 0.03 | 0.03 | 0.60 | 0.21 | 40 216 |
| 50 | 13.63 | 13.62 | 32.891 | 24.635 | 330.8 | 0.168 | 6.00 | 101.2 | 3.0 | 0.37 | 0.4 | 0.04 | 0.09 | 0.39 | 0.20 | 50 215 |
| 60 | 13.46 | 13.45 | 33.033 | 24.780 | 317.4 | 0.201 | 5.83 | 98.1 | 3.3 | 0.42 | 1.1 | 0.11 | 0.18 | 0.16 | 0.14 | 60 214 |
| 69 | 13.20 | 13.19 | 33.493 | 24.923 | 304.0 | 0.229 | 5.69 | 95.3 | 3.7 | 0.44 | 1.8 | 0.07 | 0.00 | 0.14 | 0.14 | 69 213 |
| 75 ISL | 13.87 D | 13.86 | 33.434 D | 25.007 | 296.3 | 0.247 | 5.67 D | 96.5 | 3.8 | 0.42 | 1.9 | 0.05 | 0.00 | 0.13 | 0.14 | 75 |
| 84 | 13.09 | 13.08 | 33.332 | 25.086 | 288.9 | 0.273 | 5.57 | 93.2 | 3.9 | 0.40 | 2.0 | 0.02 | 0.00 | 0.12 | 0.12 | 84 212 |
| 99 | 11.48 | 11.47 | 33.182 | 25.276 | 270.9 | 0.315 | 5.37 | 86.7 | 6.4 | 0.69 | 6.0 | 0.00 | 0.00 | 0.06 | 0.07 | 99 211 |
| 100 ISL | 11.41 D | 11.40 | 33.207 D | 25.308 | 267.8 | 0.318 | 5.31 D | 85.7 | 6.9 | 0.73 | 6.5 | 0.00 | 0.00 | 0.06 | 0.07 | 100 |
| 120 | 9.56 | 9.55 | 33.339 | 25.730 | 227.7 | 0.367 | 4.54 | 70.4 | 17.0 | 1.39 | 17.1 | 0.00 | 0.00 | 0.01 | 0.02 | 121 210 |
| 125 ISL | 9.47 D | 9.46 | 33.411 D | 25.801 | 221.1 | 0.378 | 4.41 D | 68.3 | 18.5 | 1.47 | 18.3 | 0.00 | 0.00 | 0.01 | 0.02 | 126 |
| 139 | 9.25 | 9.23 | 33.597 | 25.983 | 204.1 | 0.408 | 4.08 | 62.9 | 21.3 | 1.59 | 20.3 | 0.00 | 0.00 | 0.01 | 0.01 | 140 209 |
| 150 ISL | 9.15 D | 9.13 | 33.710 D | 26.087 | 194.4 | 0.430 | 4.02 D | 61.9 | 22.7 | 1.64 | 21.2 | 0.00 | 0.00 | 0.01 | 0.01 | 151 |
| 170 | 9.05 | 9.03 | 33.811 | 26.182 | 185.8 | 0.468 | 3.80 | 58.4 | 24.9 | 1.68 | 22.2 | 0.00 | 0.00 | 0.00 | 0.01 | 171 208 |
| 200 ISL | 8.56 D | 8.54 | 33.941 D | 26.361 | 169.2 | 0.521 | 3.43 D | 52.2 | 29.8 | 2.82 | 24.6 | 0.00 | 0.00 | 0.00 | 0.01 | 201 |
| 201 | 8.59 | 8.57 | 33.938 | 26.354 | 169.9 | 0.523 | 3.43 | 52.2 | 30.0 | 1.83 | 24.7 | 0.00 | 0.00 | 0.00 | 0.01 | 202 207 |
| 231 | 8.13 | 8.11 | 33.991 | 26.466 | 159.7 | 0.572 | 2.65 | 39.9 | 37.4 | 2.14 | 28.8 | 0.00 | 0.00 | | | 232 206 |
| 250 ISL | 7.90 D | 7.87 | 34.025 D | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 31 | 54.7 N | 124 10.2 W | 23/01/11 | 0203 | UTC | 4204 m | 270 | 08 kn | | 1014.9 mb | 13.0 | C | 12.0 | C | | | |
| 0 | ISL | 14.78 | 14.78 | 32.906 | 24.406 | 351.3 | 0.000 | 5.91 | 102.1 | 2.1 | 0.31 | 0.0 | 0.00 | 0.00 | 0.24 | 0.08 | 0 |
| 2 | | 14.78 | 14.78 | 32.906 | 24.406 | 351.4 | 0.007 | 5.91 | 102.1 | 2.1 | 0.31 | 0.0 | 0.00 | 0.00 | 0.24 | 0.08 | 2 221 |
| 9 | | 14.78 | 14.78 | 32.906 | 24.406 | 351.6 | 0.032 | | | | | | | | | | 9 220 |
| 10 | | 14.79 | 14.79 | 32.906 | 24.404 | 351.8 | 0.035 | 5.87 | 101.4 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.23 | 0.07 | 10 219 |
| 20 | ISL | 14.78 | D 14.78 | 32.904 | D 24.405 | 352.0 | 0.070 | 5.88 | D 101.6 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.25 | 0.08 | 20 |
| 24 | | 14.77 | 14.77 | 32.905 | 24.408 | 351.8 | 0.084 | 5.88 | 101.6 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.26 | 0.08 | 24 218 |
| 30 | ISL | 14.77 | D 14.77 | 32.906 | D 24.409 | 351.9 | 0.106 | 5.89 | D 101.7 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.26 | 0.08 | 30 |
| 41 | | 14.76 | 14.75 | 32.903 | 24.409 | 352.2 | 0.144 | 5.88 | 101.5 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.28 | 0.09 | 41 217 |
| 50 | | 14.76 | 14.75 | 32.903 | 24.410 | 352.5 | 0.176 | 5.88 | 101.5 | 2.1 | 0.30 | 0.0 | 0.00 | 0.00 | 0.32 | 0.09 | 50 216 |
| 62 | | 14.77 | 14.76 | 32.914 | 24.416 | 352.2 | 0.218 | 5.86 | 101.2 | 2.1 | 0.29 | 0.0 | 0.00 | 0.00 | 0.35 | 0.13 | 62 215 |
| 75 | | 15.72 | 15.71 | 33.245 | 24.464 | 348.1 | 0.264 | 5.70 | 100.6 | 2.3 | 0.24 | 0.0 | 0.00 | 0.02 | 0.20 | 0.08 | 75 214 |
| 87 | | 16.02 | 16.01 | 33.410 | 24.524 | 342.9 | 0.305 | 5.65 | 100.4 | 2.4 | 0.22 | 0.0 | 0.00 | 0.03 | 0.18 | 0.11 | 87 213 |
| 100 | ISL | 14.62 | D 14.61 | 33.558 | D 24.946 | 302.9 | 0.347 | 5.74 | D 99.2 | 3.0 | 0.21 | 0.1 | 0.07 | 0.02 | 0.17 | 0.16 | 100 |
| 101 | | 14.65 | 14.64 | 33.555 | 24.937 | 303.8 | 0.350 | 5.77 | 99.8 | 3.0 | 0.21 | 0.1 | 0.07 | 0.02 | 0.17 | 0.16 | 101 212 |
| 112 | | 13.67 | 13.65 | 33.526 | 25.120 | 286.5 | 0.383 | 5.65 | 95.8 | 3.3 | 0.28 | 1.0 | 0.04 | 0.00 | 0.12 | 0.13 | 112 211 |
| 125 | | 12.06 | 12.04 | 33.265 | 25.234 | 275.6 | 0.419 | 5.44 | 89.0 | 5.3 | 0.56 | 4.5 | 0.01 | 0.00 | 0.07 | 0.07 | 126 210 |
| 130 | | 11.65 | 11.63 | 33.206 | 25.265 | 272.8 | 0.433 | 5.36 | 86.9 | 6.3 | 0.68 | 6.1 | 0.00 | 0.00 | 0.06 | 0.06 | 131 209 |
| 150 | ISL | 10.86 | D 10.84 | 33.408 | D 25.564 | 244.5 | 0.485 | 5.08 | D 81.1 | 11.1 | 1.03 | 11.6 | 0.00 | 0.00 | 0.03 | 0.03 | 151 |
| 170 | | 9.72 | 9.70 | 33.516 | 25.844 | 218.1 | 0.531 | 4.64 | 72.3 | 16.0 | 1.27 | 15.9 | 0.00 | 0.00 | 0.01 | 0.02 | 171 208 |
| 200 | ISL | 9.15 | D 9.13 | 33.745 | D 26.115 | 192.8 | 0.593 | 4.15 | D 63.9 | 22.2 | 1.52 | 20.4 | 0.00 | 0.00 | 0.00 | 0.02 | 201 |
| 201 | | 9.15 | 9.13 | 33.726 | 26.101 | 194.2 | 0.595 | 4.13 | 63.6 | 22.4 | 1.53 | 20.5 | 0.00 | 0.00 | 0.00 | 0.02 | 202 207 |
| 229 | | 8.84 | 8.82 | 33.895 | 26.282 | 177.4 | 0.647 | 4.03 | 61.7 | 25.3 | 1.58 | 21.6 | 0.00 | 0.00 | 0.00 | 0.00 | 230 206 |
| 250 | ISL | 8.29 | D 8.26 | 33.954 | D 26.413 | 165.1 | 0.683 | 3.74 | D 56.6 | 29.9 | 1.74 | 23.9 | 0.00 | 0.00 | | | 251 |
| 270 | | 8.01 | 7.98 | 33.961 | 26.461 | 160.8 | 0.715 | 3.26 | 49.0 | 35.0 | 1.93 | 26.7 | 0.00 | 0.00 | | | 271 205 |
| 300 | ISL | 7.80 | D 7.77 | 34.027 | D 26.544 | 153.4 | 0.762 | 1.95 | D 29.2 | 42.1 | 2.24 | 30.6 | 0.00 | 0.00 | | | 302 |
| 320 | | 7.50 | 7.47 | 34.032 | 26.591 | 149.1 | 0.792 | 1.91 | 28.4 | 46.7 | 2.43 | 33.0 | 0.00 | 0.00 | | | 322 204 |
| 380 | | 6.73 | 6.69 | 34.078 | 26.734 | 135.9 | 0.878 | 1.22 | 17.8 | 59.3 | 2.76 | 37.0 | 0.00 | 0.00 | | | 382 203 |
| 400 | ISL | 6.59 | D 6.55 | 34.093 | D 26.765 | 133.2 | 0.905 | 1.11 | D 16.2 | 62.4 | 2.81 | 37.6 | 0.00 | 0.00 | | | 402 |
| 441 | | 6.10 | 6.06 | 34.094 | 26.829 | 127.2 | 0.958 | 1.06 | 15.2 | 68.5 | 2.88 | 38.6 | 0.00 | 0.00 | | | 444 202 |
| 500 | ISL | 5.49 | D 5.45 | 34.124 | D 26.928 | 118.0 | 1.031 | 0.80 | D 11.3 | 79.3 | 3.03 | 40.5 | 0.00 | 0.00 | | | 503 |
| 519 | | 5.38 | 5.34 | 34.143 | 26.957 | 115.4 | 1.053 | 0.70 | 9.9 | 82.8 | 3.08 | 41.1 | 0.00 | 0.00 | | | 522 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 34 | 0.7 N | 118 50.7 W | 20/01/11 | 1007 | UTC | 48 m | 120 | 02 kn | | 1015.1 mb | 14.5 | C | 12.9 | C | | | |
| 0 | ISL | 13.82 | 13.82 | 33.195 | 24.830 | 310.9 | 0.000 | 6.72 | 114.1 | 1.3 | 0.29 | 0.1 | 0.01 | 0.04 | 3.31 | 0.72 | 0 |
| 2 | | 13.82 | 13.82 | 33.195 | 24.830 | 311.0 | 0.006 | 6.72 | 114.1 | 1.3 | 0.29 | 0.1 | 0.01 | 0.04 | 3.31 | 0.72 | 2 207 |
| 5 | | 13.82 | 13.82 | 33.196 | 24.831 | 311.0 | 0.016 | 6.73 | 114.2 | 1.4 | 0.32 | 0.1 | 0.01 | 0.02 | 3.38 | 0.75 | 5 206 |
| 10 | | 13.66 | 13.66 | 33.208 | 24.873 | 307.1 | 0.031 | 6.66 | 112.7 | 1.4 | 0.27 | 0.0 | 0.00 | 0.01 | 4.75 | 0.92 | 10 204 |
| 10 | | 13.67 | 13.67 | 33.208 | 24.871 | 307.3 | 0.031 | | | | | | | | | | 10 205 |
| 20 | | 13.17 | 13.17 | 33.258 | 25.011 | 294.3 | 0.061 | 5.89 | 98.7 | 3.3 | 0.51 | 1.8 | 0.11 | 0.99 | 3.86 | 0.84 | 20 203 |
| 30 | | 12.56 | 12.56 | 33.337 | 25.192 | 277.3 | 0.090 | 5.00 | 82.7 | 8.7 | 0.99 | 7.6 | 0.35 | 1.90 | 1.27 | 0.69 | 30 202 |
| 41 | | 11.77 | 11.76 | 33.418 | 25.405 | 257.3 | 0.119 | 4.21 | 68.5 | 14.1 | 1.34 | 13.5 | 0.43 | 1.14 | 1.08 | 0.64 | 41 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 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 | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.46 | 14.46 | 33.186 | 24.690 | 324.3 | 0.000 | 6.51 | 112.0 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 1.00 | 0.30 | 0 | |
| 2 | 14.46 | 14.46 | 33.186 | 24.690 | 324.3 | 0.006 | 6.51 | 111.9 | 2.2 | 0.29 | 0.0 | 0.00 | 0.00 | 1.00 | 0.30 | 2 | 221 |
| 10 | 14.47 | 14.47 | 33.189 | 24.691 | 324.5 | 0.032 | 6.53 | 112.3 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 1.09 | 0.34 | 10 | 219 |
| 10 | 14.45 | 14.45 | 33.187 | 24.693 | 324.3 | 0.032 | | | | | | | | | | 10 | 220 |
| 19 | 13.81 | 13.81 | 33.226 | 24.857 | 308.9 | 0.061 | 6.52 | 110.7 | 1.4 | 0.25 | 0.0 | 0.00 | 0.00 | 4.64 | 0.69 | 19 | 218 |
| 20 ISL | 13.67 | 13.67 | 33.243 D | 24.899 | 305.0 | 0.064 | 6.00 | D 101.6 | 1.7 | 0.29 | 0.4 | 0.07 | 0.05 | 4.43 | 0.68 | 20 | |
| 30 | 13.18 | 13.18 | 33.281 | 25.027 | 293.0 | 0.094 | 5.21 | 87.3 | 5.8 | 0.75 | 5.8 | 0.64 | 0.43 | 1.03 | 0.63 | 30 | 217 |
| 40 | 12.32 | 12.31 | 33.342 | 25.242 | 272.7 | 0.122 | 4.53 | 74.6 | 10.2 | 1.09 | 12.2 | 0.08 | 0.00 | 0.37 | 0.32 | 40 | 216 |
| 50 | 11.33 | 11.32 | 33.395 | 25.468 | 251.4 | 0.148 | 4.08 | 65.8 | 14.2 | 1.36 | 16.4 | 0.03 | 0.00 | 0.27 | 0.29 | 50 | 215 |
| 60 | 10.94 | 10.93 | 33.463 | 25.591 | 239.9 | 0.173 | 3.74 | 59.8 | 17.1 | 1.55 | 18.8 | 0.02 | 0.00 | 0.11 | 0.21 | 60 | 214 |
| 70 | 10.74 | 10.73 | 33.510 | 25.663 | 233.3 | 0.197 | 3.58 | 57.0 | 18.8 | 1.62 | 20.0 | 0.02 | 0.00 | 0.09 | 0.19 | 70 | 213 |
| 75 ISL | 10.52 | D 10.51 | 33.585 D | 25.760 | 224.2 | 0.208 | 3.36 | D 53.3 | 20.3 | 1.67 | 20.8 | 0.02 | 0.00 | 0.08 | 0.17 | 75 | |
| 86 | 10.30 | 10.29 | 33.661 | 25.858 | 215.1 | 0.232 | 3.06 | 48.3 | 23.3 | 1.78 | 22.4 | 0.01 | 0.00 | 0.05 | 0.12 | 86 | 212 |
| 100 | 10.21 | 10.20 | 33.712 | 25.913 | 210.2 | 0.262 | 2.91 | 45.9 | 24.4 | 1.82 | 23.0 | 0.01 | 0.00 | 0.04 | 0.13 | 101 | 211 |
| 120 | 10.00 | 9.99 | 33.802 | 26.019 | 200.5 | 0.303 | 2.67 | 41.9 | 26.7 | 1.93 | 24.3 | 0.01 | 0.00 | 0.02 | 0.13 | 121 | 210 |
| 125 ISL | 9.96 | D 9.95 | 33.817 D | 26.038 | 198.8 | 0.313 | 2.65 | D 41.6 | 27.3 | 1.95 | 24.7 | 0.01 | 0.00 | 0.02 | 0.12 | 126 | |
| 140 | 9.68 | 9.66 | 33.904 | 26.153 | 188.2 | 0.342 | 2.47 | 38.5 | 29.2 | 2.00 | 25.8 | 0.00 | 0.00 | 0.02 | 0.10 | 141 | 209 |
| 150 ISL | 9.42 | D 9.40 | 33.957 D | 26.237 | 180.3 | 0.361 | 2.45 | D 38.0 | 30.8 | 2.06 | 26.6 | 0.00 | 0.00 | 0.02 | 0.09 | 151 | |
| 170 | 9.28 | 9.26 | 34.048 | 26.331 | 171.8 | 0.396 | 2.02 | 31.3 | 34.1 | 2.18 | 28.0 | 0.00 | 0.00 | 0.01 | 0.07 | 171 | 208 |
| 200 | 9.02 | 9.00 | 34.108 | 26.420 | 163.9 | 0.446 | 1.77 | 27.2 | 37.6 | 2.28 | 29.2 | 0.00 | 0.00 | 0.01 | 0.08 | 201 | 207 |
| 230 | 8.77 | 8.75 | 34.162 | 26.502 | 156.6 | 0.494 | 1.48 | 22.7 | 41.2 | 2.42 | 30.5 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.58 | D 8.55 | 34.175 D | 26.542 | 153.1 | 0.525 | 1.38 | D 21.0 | 42.8 | 2.47 | 31.1 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.51 | 8.48 | 34.189 | 26.564 | 151.4 | 0.556 | 1.28 | 19.5 | 44.3 | 2.50 | 31.6 | 0.00 | 0.00 | | | 272 | 205 |
| 300 ISL | 8.35 | D 8.32 | 34.203 D | 26.600 | 148.4 | 0.601 | 1.18 | D 17.9 | 47.2 | 2.59 | 32.6 | 0.00 | 0.00 | | | 302 | |
| 323 | 8.17 | 8.14 | 34.234 | 26.652 | 143.8 | 0.634 | 0.91 | 13.7 | 49.8 | 2.66 | 33.4 | 0.00 | 0.00 | | | 325 | 204 |
| 379 | 7.61 | 7.57 | 34.251 | 26.748 | 135.3 | 0.712 | 0.67 | 10.0 | 56.9 | 2.79 | 35.3 | 0.00 | 0.00 | | | 381 | 203 |
| 400 ISL | 7.44 | D 7.40 | 34.259 D | 26.779 | 132.6 | 0.740 | 0.63 | D 9.4 | 59.7 | 2.85 | 35.9 | 0.00 | 0.00 | | | 403 | |
| 441 | 7.06 | 7.02 | 34.270 | 26.841 | 127.1 | 0.794 | 0.50 | 7.4 | 64.9 | 2.95 | 36.9 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 6.66 | D 6.61 | 34.286 D | 26.909 | 121.2 | 0.867 | 0.41 | D 6.0 | 71.3 | 3.03 | 38.0 | 0.00 | 0.00 | | | 503 | |
| 518 | 6.57 | 6.52 | 34.289 | 26.923 | 120.0 | 0.889 | 0.35 | 5.1 | 73.3 | 3.05 | 38.3 | 0.00 | 0.00 | | | 522 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 40.0

| 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 | 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 | uM/l | ug/l | ug/l | db | |
| 0 ISL | 13.68 | 13.68 | 33.363 | 24.989 | 295.8 | 0.000 | 6.89 | 116.7 | 0.1 | 0.12 | 0.0 | 0.00 | 0.00 | 2.54 | 0.59 | 0 | |
| 3 A | 13.68 | 13.68 | 33.363 | 24.989 | 295.9 | 0.009 | 6.89 | 116.7 | 0.1 | 0.12 | 0.0 | 0.00 | 0.00 | 2.54 | 0.59 | 3 | 224 |
| 6 A | 13.61 | 13.61 | 33.357 | 24.999 | 295.1 | 0.018 | 7.11 | 120.3 | 0.0 | 0.11 | 0.0 | 0.00 | 0.00 | 2.72 | 0.70 | 6 | 223 |
| 8 A | 13.57 | 13.57 | 33.357 | 25.007 | 294.4 | 0.024 | 7.01 | 118.5 | 0.0 | 0.12 | 0.0 | 0.00 | 0.00 | 2.75 | 0.67 | 8 | 222 |
| 10 ISL | 13.50 | D 13.50 | 33.360 D | 25.023 | 292.8 | 0.030 | 7.01 | 118.3 | 0.0 | 0.12 | 0.0 | 0.00 | 0.02 | 2.95 | 0.71 | 10 | |
| 11 A | 13.44 | 13.44 | 33.360 | 25.036 | 291.7 | 0.032 | 7.01 | 118.2 | 0.0 | 0.12 | 0.1 | 0.00 | 0.04 | 3.13 | 0.76 | 11 | 221 |
| 16 A | 13.10 | 13.10 | 33.373 | 25.114 | 284.4 | 0.047 | 6.79 | 113.7 | 0.1 | 0.21 | 0.8 | 0.02 | 0.27 | 4.81 | 1.30 | 16 | 220 |
| 20 ISL | 12.91 | D 12.91 | 33.375 D | 25.153 | 280.7 | 0.058 | 6.53 | D 108.9 | 1.7 | 0.47 | 3.0 | 0.05 | 0.47 | 4.70 | 1.41 | 20 | |
| 24 | 12.76 | 12.76 | 33.389 | 25.193 | 277.0 | 0.069 | 5.80 | 96.4 | 3.9 | 0.75 | 5.5 | 0.09 | 0.62 | 4.59 | 1.53 | 24 | 219 |
| 30 ISL | 12.47 | D 12.47 | 33.395 D | 25.255 | 271.3 | 0.086 | 5.44 | D 89.9 | 6.7 | 0.95 | 8.1 | 0.21 | 0.56 | 3.71 | 1.28 | 30 | |
| 32 A | 12.32 | 12.32 | 33.397 | 25.285 | 268.5 | 0.091 | 5.23 | 86.1 | 7.6 | 0.99 | 8.8 | 0.25 | 0.54 | 3.34 | 1.16 | 32 | 218 |
| 41 | 11.94 | 11.93 | 33.418 | 25.373 | 260.3 | 0.115 | 4.74 | 77.4 | 10.7 | 1.17 | 11.9 | 0.31 | 0.24 | 1.71 | 0.78 | 41 | 217 |
| 50 | 11.41 | 11.40 | 33.431 | 25.482 | 250.2 | 0.138 | 4.19 | 67.7 | 14.0 | 1.38 | 15.6 | 0.11 | 0.00 | 0.68 | 0.40 | 50 | 216 |
| 60 | 10.88 | 10.87 | 33.529 | 25.653 | 234.0 | 0.162 | 3.76 | 60.1 | 17.9 | 1.57 | 18.5 | 0.06 | 0.00 | 0.30 | 0.30 | 60 | 215 |
| 71 | 10.61 | 10.60 | 33.588 | 25.747 | 225.4 | 0.187 | 3.44 | 54.7 | 20.2 | 1.75 | 20.3 | 0.03 | 0.00 | 0.18 | 0.24 | 71 | 214 |
| 75 ISL | 10.37 | D 10.36 | 33.659 D | 25.844 | 216.2 | 0.196 | 3.21 | D 50.8 | 21.9 | 1.84 | 21.5 | 0.02 | 0.00 | 0.13 | 0.21 | 75 | |
| 85 | 10.08 | 10.07 | 33.774 | 25.983 | 203.2 | 0.217 | 2.76 | 43.4 | 25.9 | 2.02 | 24.2 | 0.01 | 0.00 | 0.05 | 0.14 | 85 | 213 |
| 100 ISL | 9.92 | D 9.91 | 33.857 D | 26.075 | 194.7 | 0.247 | 2.55 | D 40.0 | 27.8 | 2.06 | 25.2 | 0.00 | 0.00 | 0.08 | 0.20 | 101 | |
| 101 | 9.92 | 9.91 | 33.853 | 26.072 | 195.0 | 0.249 | 2.51 | 39.4 | 27.9 | 2.06 | 25.2 | 0.00 | 0.00 | 0.08 | 0.20 | 102 | 212 |
| 120 | 9.68 | 9.67 | 33.944 | 26.184 | 184.8 | 0.285 | 2.34 | 36.5 | 29.9 | 2.13 | 26.3 | 0.00 | 0.00 | 0.02 | 0.09 | 121 | 211 |
| 125 ISL | 9.60 | D 9.59 | 33.974 D | 26.220 | 181.4 | 0.294 | 2.32 | D 36.1 | 30.7 | 2.15 | 26.7 | 0.00 | 0.00 | 0.02 | 0.08 | 126 | |
| 140 | 9.46 | 9.44 | 34.028 | 26.286 | 175.5 | 0.321 | 2.01 | 31.2 | 33.0 | 2.22 | 27.7 | 0.00 | 0.00 | 0.01 | 0.06 | 141 | 210 |
| 150 ISL | 9.34 | D 9.32 | 34.030 D | 26.307 | 173.7 | 0.338 | 2.08 | D 32.2 | 33.9 | 2.26 | 28.1 | 0.00 | 0.00 | 0.01 | 0.06 | 151 | |
| 171 | 9.17 | 9.15 | 34.067 | 26.364 | 168.7 | 0.374 | 1.91 | 29.5 | 35.4 | 2.33 | 28.6 | 0.00 | 0.00 | 0.01 | 0.07 | 172 | 209 |
| 200 ISL | 8.92 | D 8.90 | 34.135 | 26.457 | 160.3 | 0.422 | 1.63 | D 25.0 | 38.7 | 2.38 | 29.9 | 0.00 | 0.00 | 0.01 | 0 | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | ug/l | ug/l | db | | | |
| 0 ISL | 14.97 | 14.97 | 33.290 | 24.661 | 327.0 | 0.000 | 6.14 | 106.8 | 2.1 | 0.31 | 0.0 | 0.00 | 0.00 | 0.56 | 0.08 | 0 | | |
| 3 | 14.97 | 14.97 | 33.290 | 24.661 | 327.1 | 0.010 | 6.14 | 106.8 | 2.1 | 0.31 | 0.0 | 0.00 | 0.00 | 0.56 | 0.08 | 3 | 221 | |
| 10 | 14.57 | 14.57 | 33.289 | 24.746 | 319.2 | 0.032 | 6.14 | 105.9 | 1.9 | 0.29 | 0.1 | 0.00 | 0.00 | 0.55 | 0.19 | 10 | 219 | |
| 10 | 14.57 | 14.57 | 33.297 | 24.753 | 318.6 | 0.032 | | | | | | | | | | | 10 | 220 |
| 20 | 14.46 | 14.46 | 33.308 | 24.785 | 315.9 | 0.064 | 6.12 | 105.3 | 1.7 | 0.29 | 0.2 | 0.00 | 0.01 | 0.96 | 0.42 | 20 | 218 | |
| 30 | 14.32 | 14.32 | 33.318 | 24.822 | 312.6 | 0.096 | 6.10 | 104.7 | 1.7 | 0.30 | 0.3 | 0.02 | 0.05 | 1.03 | 0.19 | 30 | 217 | |
| 40 | 12.72 | 12.71 | 33.318 | 25.147 | 281.9 | 0.125 | 4.82 | 80.0 | 7.8 | 0.95 | 9.7 | 0.12 | 0.00 | 0.44 | 0.29 | 40 | 216 | |
| 50 ISL | 11.62 | D 11.61 | 33.326 | D 25.361 | 261.6 | 0.152 | 4.64 | D 75.3 | 10.8 | 1.12 | 12.7 | 0.12 | 0.02 | 0.27 | 0.18 | 50 | | |
| 51 | 11.60 | 11.59 | 33.338 | 25.375 | 260.4 | 0.155 | 4.58 | 74.3 | 11.0 | 1.13 | 12.8 | 0.12 | 0.02 | 0.27 | 0.17 | 51 | 215 | |
| 61 | 10.62 | 10.61 | 33.302 | 25.522 | 246.5 | 0.180 | 4.44 | 70.5 | 14.3 | 1.31 | 15.9 | 0.03 | 0.00 | 0.12 | 0.15 | 61 | 214 | |
| 70 | 10.26 | 10.25 | 33.402 | 25.662 | 233.3 | 0.202 | 4.15 | 65.4 | 17.1 | 1.45 | 18.3 | 0.02 | 0.00 | 0.07 | 0.09 | 70 | 213 | |
| 75 ISL | 10.08 | D 10.07 | 33.472 | D 25.747 | 225.3 | 0.213 | 4.02 | D 63.1 | 18.8 | 1.54 | 19.6 | 0.02 | 0.00 | 0.06 | 0.09 | 75 | | |
| 86 | 10.11 | 10.10 | 33.626 | 25.863 | 214.6 | 0.238 | 3.34 | 52.5 | 22.0 | 1.71 | 22.0 | 0.02 | 0.00 | 0.04 | 0.09 | 86 | 212 | |
| 100 | 9.90 | 9.89 | 33.693 | 25.950 | 206.5 | 0.267 | 3.23 | 50.6 | 23.3 | 1.77 | 22.9 | 0.01 | 0.00 | 0.02 | 0.08 | 101 | 211 | |
| 118 | 9.66 | 9.65 | 33.846 | 26.110 | 191.7 | 0.303 | 2.72 | 42.4 | 27.3 | 1.95 | 25.1 | 0.00 | 0.00 | 0.01 | 0.08 | 119 | 210 | |
| 125 ISL | 9.56 | D 9.55 | 33.909 | D 26.176 | 185.6 | 0.316 | 2.62 | D 40.8 | 28.6 | 2.00 | 25.7 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | | |
| 141 | 9.39 | 9.37 | 34.010 | 26.283 | 175.8 | 0.345 | 2.30 | 35.7 | 31.6 | 2.09 | 27.0 | 0.00 | 0.00 | 0.01 | 0.07 | 142 | 209 | |
| 150 ISL | 9.25 | D 9.23 | 34.060 | D 26.345 | 170.0 | 0.361 | 2.14 | D 33.1 | 33.5 | 2.16 | 27.9 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | | |
| 170 | 9.03 | 9.01 | 34.105 | 26.416 | 163.7 | 0.394 | 1.73 | 26.6 | 37.3 | 2.32 | 29.5 | 0.00 | 0.00 | 0.00 | 0.06 | 171 | 208 | |
| 200 ISL | 8.73 | D 8.71 | 34.162 | D 26.508 | 155.4 | 0.442 | 1.61 | D 24.6 | 40.4 | 2.43 | 30.4 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | | |
| 202 | 8.73 | 8.71 | 34.164 | 26.510 | 155.3 | 0.445 | 1.59 | 24.3 | 40.5 | 2.43 | 30.4 | 0.00 | 0.00 | 0.00 | 0.05 | 203 | 207 | |
| 230 | 8.51 | 8.49 | 34.174 | 26.552 | 151.7 | 0.488 | 1.45 | 22.1 | 43.0 | 2.48 | 31.3 | 0.00 | 0.00 | | | 231 | 206 | |
| 250 ISL | 8.32 | D 8.29 | 34.203 | D 26.604 | 147.1 | 0.518 | 1.22 | D 18.5 | 45.6 | 2.54 | 32.1 | 0.00 | 0.00 | | | 251 | | |
| 270 | 8.14 | 8.11 | 34.220 | 26.645 | 143.5 | 0.547 | 1.07 | 16.2 | 48.4 | 2.61 | 33.0 | 0.00 | 0.00 | | | 272 | 205 | |
| 300 ISL | 7.93 | D 7.90 | 34.226 | D 26.681 | 140.5 | 0.590 | 0.95 | D 14.3 | 51.6 | 2.67 | 33.9 | 0.00 | 0.00 | | | 302 | | |
| 321 | 7.80 | 7.77 | 34.240 | 26.711 | 137.9 | 0.619 | 0.80 | 12.0 | 53.7 | 2.71 | 34.5 | 0.00 | 0.00 | | | 323 | 204 | |
| 381 | 7.29 | 7.25 | 34.274 | 26.812 | 129.1 | 0.699 | 0.56 | 8.3 | 61.2 | 2.84 | 36.2 | 0.00 | 0.00 | | | 383 | 203 | |
| 400 ISL | 7.10 | D 7.06 | 34.270 | D 26.835 | 127.0 | 0.723 | 0.53 | D 7.8 | 63.5 | 2.90 | 36.8 | 0.00 | 0.00 | | | 403 | | |
| 440 | 6.78 | 6.74 | 34.280 | 26.887 | 122.4 | 0.773 | 0.44 | 6.4 | 68.4 | 3.00 | 37.9 | 0.00 | 0.00 | | | 443 | 202 | |
| 500 ISL | 6.33 | D 6.28 | 34.304 | D 26.966 | 115.4 | 0.845 | 0.33 | D 4.8 | 75.6 | 3.03 | 38.8 | 0.00 | 0.00 | | | 503 | | |
| 517 | 6.25 | 6.20 | 34.310 | 26.982 | 114.1 | 0.864 | 0.30 | 4.3 | 77.7 | 3.04 | 39.1 | 0.00 | 0.00 | | | 521 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | ug/l | ug/l | db | | |
| 0 ISL | 13.14 | 13.14 | 33.401 | 25.127 | 282.7 | 0.000 | 6.22 | 104.2 | 4.5 | 0.50 | 4.5 | 0.18 | 0.00 | 3.39 | 0.38 | 0 | |
| 3 | 13.14 | 13.14 | 33.401 | 25.127 | 282.7 | 0.008 | 6.22 | 104.2 | 4.5 | 0.50 | 4.5 | 0.18 | 0.00 | 3.39 | 0.38 | 3 | 210 |
| 5 | 13.18 | 13.18 | 33.405 | 25.122 | 283.3 | 0.014 | 6.24 | 104.7 | 4.3 | 0.51 | 4.4 | 0.18 | 0.00 | 3.48 | 0.57 | 5 | 209 |
| 10 | 12.74 | 12.74 | 33.402 | 25.207 | 275.3 | 0.028 | 6.01 | 99.9 | 6.2 | 0.62 | 6.2 | 0.21 | 0.00 | 3.15 | 0.56 | 10 | 207 |
| 10 | 12.75 | 12.75 | 33.400 | 25.203 | 275.7 | 0.028 | | | | | | | | | | 10 | 208 |
| 20 | 12.58 | 12.58 | 33.414 | 25.248 | 271.7 | 0.055 | 5.81 | 96.2 | 6.7 | 0.69 | 7.0 | 0.22 | 0.05 | 3.21 | 0.63 | 20 | 206 |
| 30 | 12.55 | 12.55 | 33.420 | 25.258 | 271.0 | 0.083 | 5.68 | 94.0 | 7.3 | 0.74 | 7.5 | 0.22 | 0.06 | 3.19 | 0.61 | 30 | 205 |
| 40 | 12.47 | 12.46 | 33.426 | 25.279 | 269.3 | 0.110 | 5.61 | 92.7 | 7.7 | 0.78 | 7.9 | 0.23 | 0.09 | 3.07 | 0.38 | 40 | 204 |
| 50 | 11.72 | 11.71 | 33.485 | 25.467 | 251.6 | 0.136 | 4.74 | 77.1 | 13.1 | 1.11 | 12.9 | 0.22 | 0.13 | 0.93 | 0.42 | 50 | 203 |
| 61 | 11.10 | 11.09 | 33.547 | 25.628 | 236.5 | 0.163 | 4.15 | 66.6 | 17.1 | 1.33 | 16.6 | 0.16 | 0.06 | 0.65 | 0.27 | 61 | 202 |
| 70 | 10.17 | 10.16 | 33.726 | 25.930 | 207.9 | 0.183 | 3.03 | 47.7 | 25.5 | 1.74 | 22.9 | 0.09 | 0.00 | 0.08 | 0.19 | 70 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 12.36 | 12.36 | 33.301 | 25.202 | 275.6 | 0.000 | 5.83 | 96.0 | 7.5 | 0.78 | 7.7 | 0.23 | 0.15 | 1.01 | 0.21 | 0 | |
| 3 | 12.36 | 12.36 | 33.301 | 25.202 | 275.6 | 0.008 | 5.83 | 96.0 | 7.5 | 0.78 | 7.7 | 0.23 | 0.15 | 1.01 | 0.21 | 3 221 | |
| 10 | 12.26 | 12.26 | 33.303 | 25.223 | 273.8 | 0.027 | 5.86 | 96.3 | 7.5 | 0.79 | 7.9 | 0.23 | 0.18 | 1.37 | 0.31 | 10 219 | |
| 10 | 12.26 | 12.26 | 33.303 | 25.223 | 273.8 | 0.027 | | | | | | | | | | 10 220 | |
| 20 | 12.22 | 12.22 | 33.305 | 25.232 | 273.2 | 0.055 | 5.80 | 95.3 | 7.6 | 0.80 | 8.0 | 0.23 | 0.23 | 1.41 | 0.31 | 20 218 | |
| 30 | 11.92 | 11.92 | 33.279 | 25.269 | 269.9 | 0.082 | 5.60 | 91.4 | 8.4 | 0.86 | 9.0 | 0.19 | 0.25 | 1.11 | 0.27 | 30 217 | |
| 40 | 10.97 | 10.97 | 33.207 | 25.386 | 259.0 | 0.108 | 5.05 | 80.7 | 10.8 | 1.03 | 11.8 | 0.07 | 0.02 | 0.26 | 0.08 | 40 216 | |
| 50 | 9.94 | 9.93 | 33.323 | 25.654 | 233.6 | 0.133 | 4.48 | 70.1 | 16.6 | 1.34 | 17.2 | 0.02 | 0.00 | 0.05 | 0.06 | 50 215 | |
| 60 | 9.61 | 9.60 | 33.475 | 25.828 | 217.3 | 0.156 | 3.92 | 60.9 | 21.4 | 1.55 | 21.1 | 0.01 | 0.00 | 0.04 | 0.06 | 60 214 | |
| 70 | 9.81 | 9.80 | 33.591 | 25.885 | 212.1 | 0.177 | 3.46 | 54.0 | 23.5 | 1.63 | 22.4 | 0.01 | 0.00 | 0.04 | 0.09 | 70 213 | |
| 75 ISL | 9.92 D | 9.91 | 33.695 D | 25.948 | 206.2 | 0.188 | 3.09 D | 48.4 | 25.2 | 1.70 | 23.4 | 0.01 | 0.00 | 0.03 | 0.10 | 75 | |
| 85 | 9.85 | 9.84 | 33.833 | 26.068 | 195.1 | 0.208 | 2.52 | 39.4 | 28.7 | 1.86 | 25.5 | 0.02 | 0.00 | 0.02 | 0.11 | 85 212 | |
| 100 | 9.56 | 9.55 | 33.956 | 26.212 | 181.6 | 0.236 | 2.15 | 33.5 | 32.3 | 2.01 | 27.2 | 0.01 | 0.00 | 0.01 | 0.12 | 101 211 | |
| 120 | 8.89 | 8.88 | 33.996 | 26.352 | 168.7 | 0.271 | 2.36 | 36.2 | 34.6 | 1.96 | 27.9 | 0.01 | 0.00 | 0.01 | 0.12 | 121 210 | |
| 125 ISL | 8.89 D | 8.88 | 34.011 D | 26.364 | 167.7 | 0.279 | 2.33 D | 35.7 | 35.4 | 1.99 | 28.3 | 0.01 | 0.00 | 0.01 | 0.11 | 126 | |
| 140 | 8.77 | 8.76 | 34.055 | 26.417 | 162.9 | 0.304 | 1.98 | 30.3 | 37.8 | 2.10 | 29.4 | 0.00 | 0.00 | 0.01 | 0.09 | 141 209 | |
| 150 ISL | 8.64 D | 8.62 | 34.079 D | 26.456 | 159.3 | 0.320 | 1.90 D | 29.0 | 39.3 | 2.13 | 29.9 | 0.00 | 0.00 | 0.01 | 0.08 | 151 | |
| 170 | 8.44 | 8.42 | 34.097 | 26.501 | 155.4 | 0.352 | 1.73 | 26.3 | 42.1 | 2.17 | 30.8 | 0.00 | 0.00 | 0.01 | 0.07 | 171 208 | |
| 200 ISL | 8.15 D | 8.13 | 34.120 D | 26.564 | 149.9 | 0.397 | 1.58 D | 23.8 | 45.2 | 2.26 | 31.8 | 0.00 | 0.00 | 0.01 | 0.06 | 201 | |
| 201 | 8.18 | 8.16 | 34.116 | 26.556 | 150.7 | 0.399 | 1.58 | 23.9 | 45.3 | 2.26 | 31.8 | 0.00 | 0.00 | 0.01 | 0.06 | 202 207 | |
| 230 | 7.97 | 7.95 | 34.140 | 26.607 | 146.3 | 0.442 | 1.38 | 20.7 | 48.7 | 2.35 | 32.8 | 0.00 | 0.00 | | | 231 206 | |
| 250 ISL | 7.86 D | 7.83 | 34.176 D | 26.651 | 142.4 | 0.471 | 1.18 D | 17.7 | 51.1 | 2.41 | 33.5 | 0.00 | 0.00 | | | 252 | |
| 270 | 7.72 | 7.69 | 34.186 | 26.680 | 140.0 | 0.499 | 1.05 | 15.7 | 53.5 | 2.47 | 34.2 | 0.00 | 0.00 | | | 272 205 | |
| 300 ISL | 7.48 D | 7.45 | 34.204 D | 26.729 | 135.7 | 0.540 | 0.91 D | 13.5 | 56.7 | 2.56 | 35.0 | 0.00 | 0.00 | | | 302 | |
| 320 | 7.46 | 7.43 | 34.229 | 26.752 | 133.9 | 0.567 | 0.75 | 11.1 | 58.8 | 2.61 | 35.5 | 0.00 | 0.00 | | | 322 204 | |
| 380 | 6.93 | 6.89 | 34.246 | 26.839 | 126.2 | 0.645 | 0.58 | 8.5 | 66.6 | 2.73 | 37.2 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 6.82 D | 6.78 | 34.256 D | 26.863 | 124.2 | 0.670 | 0.57 D | 8.3 | 69.2 | 2.76 | 37.7 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.48 | 6.44 | 34.276 | 26.924 | 118.7 | 0.720 | 0.45 D | 6.5 | 74.4 | 2.81 | 38.7 | 0.00 | 0.00 | | | 444 202 | |
| 500 ISL | 6.07 D | 6.03 | 34.305 D | 27.000 | 111.9 | 0.788 | 0.35 D | 5.0 | 80.7 | 2.90 | 39.7 | 0.00 | 0.00 | | | 504 | |
| 515 | 6.05 | 6.00 | 34.305 | 27.003 | 111.8 | 0.805 | 0.30 | 4.3 | 82.3 | 2.92 | 40.0 | 0.00 | 0.00 | | | 519 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 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 | 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 | um/l | um/l | ug/l | ug/l | db | |
| 0 ISL | 13.99 | 13.99 | 32.950 | 24.606 | 332.3 | 0.000 | 6.01 | 102.2 | 2.9 | 0.31 | 0.2 | 0.02 | 0.00 | 0.61 | 0.19 | 0 | |
| 2 | 13.99 | 13.99 | 32.950 | 24.606 | 332.3 | 0.007 | 6.01 | 102.2 | 2.9 | 0.31 | 0.2 | 0.02 | 0.00 | 0.61 | 0.19 | 2 221 | |
| 10 CSL | 13.99 | 13.99 | 32.948 | 24.605 | 332.7 | 0.033 | 6.04 | 102.7 | | | | | | | | 10 200 | |
| 10 | 14.00 | 14.00 | 32.946 | 24.601 | 333.0 | 0.033 | | | | | | | | | | 10 220 | |
| 11 | 14.00 | 14.00 | 32.947 | 24.602 | 333.0 | 0.037 | 6.01 | 102.2 | 2.9 | 0.31 | 0.2 | 0.02 | 0.00 | 0.54 | 0.16 | 11 219 | |
| 20 | 13.99 | 13.99 | 32.948 | 24.605 | 332.9 | 0.067 | 6.01 | 102.2 | 2.9 | 0.31 | 0.2 | 0.02 | 0.00 | 0.65 | 0.20 | 20 218 | |
| 30 | 13.64 | 13.64 | 33.000 | 24.717 | 322.5 | 0.099 | 5.90 | 99.6 | 3.3 | 0.37 | 1.1 | 0.11 | 0.03 | 0.41 | 0.22 | 30 217 | |
| 41 | 12.92 | 12.91 | 33.039 | 24.891 | 306.2 | 0.134 | 5.73 | 95.4 | 3.9 | 0.46 | 2.5 | 0.13 | 0.00 | 0.25 | 0.25 | 41 216 | |
| 50 ISL | 11.60 D | 11.59 | 32.996 D | 25.109 | 285.6 | 0.161 | 5.62 D | 90.9 | 5.2 | 0.58 | 4.5 | 0.01 | 0.00 | 0.13 | 0.13 | 50 | |
| 51 | 11.63 | 11.62 | 32.995 | 25.102 | 286.2 | 0.163 | 5.60 | 90.7 | 5.4 | 0.60 | 4.8 | 0.00 | 0.00 | 0.12 | 0.12 | 51 215 | |
| 60 | 11.26 | 11.25 | 33.086 | 25.241 | 273.3 | 0.189 | 5.34 | 85.8 | 7.5 | 0.77 | 7.9 | 0.00 | 0.00 | 0.07 | 0.08 | 60 214 | |
| 70 | 10.72 | 10.71 | 33.148 | 25.385 | 259.7 | 0.215 | 5.03 | 79.9 | 10.3 | 0.94 | 11.0 | 0.00 | 0.00 | 0.05 | 0.06 | 70 213 | |
| 75 ISL | 10.38 D | 10.37 | 33.208 D | 25.490 | 249.8 | 0.228 | 4.82 D | 76.0 | 11.8 | 1.02 | 12.5 | 0.00 | 0.00 | 0.04 | 0.05 | 75 | |
| 85 | 10.03 | 10.02 | 33.250 | 25.583 | 241.2 | 0.252 | 4.67 | 73.1 | 14.9 | 1.18 | 15.3 | 0.00 | 0.00 | 0.03 | 0.04 | 85 212 | |
| 100 ISL | 9.51 D | 9.50 | 33.394 D | 25.781 | 222.5 | 0.287 | 4.25 D | 65.8 | 18.7 | 1.36 | 18.4 | 0.00 | 0.00 | 0.02 | 0.03 | 100 | |
| 101 | 9.51 | 9.50 | 33.376 | 25.767 | 223.9 | 0.290 | 4.32 | 66.9 | 19.0 | 1.37 | 18.6 | 0.00 | 0.00 | 0.02 | 0.03 | 101 211 | |
| 118 | 9.14 | 9.13 | 33.624 | 26.021 | 200.1 | 0.326 | 3.57 | 54.9 | 25.8 | 1.65 | 23.7 | 0.00 | 0.00 | 0.00 | 0.03 | 119 210 | |
| 125 ISL | 9.07 D | 9.06 | 33.688 D | 26.082 | 194.4 | 0.339 | 3.42 D | 52.6 | 28.1 | 1.74 | 25.2 | 0.00 | 0.00 | 0.00 | 0.03 | 126 | |
| 139 | 8.92 | 8.91 | 33.843 | 26.227 | 180.8 | 0.366 | 2.78 | 42.6 | 31.8 | 1.88 | 27.3 | 0.00 | 0.00 | 0.00 | 0.03 | 140 209 | |
| 150 ISL | 8.83 D | 8.81 | 33.917 D | 26.300 | 174.2 | 0.385 | 2.64 D | 40.4 | 33.4 | 1.90 | 27.7 | 0.00 | 0.00 | 0.00 | 0.03 | 151 | |
| 171 | 8.64 | 8.62 | 33.968 | 26.370 | 167.9 | 0.421 | 2.50 | 38.1 | 35.4 | 1.95 | 28.4 | 0.00 | 0.00 | 0.00 | 0.03 | 172 208 | |
| 200 ISL | 8.23 D | 8.21 | 34.012 D | 26.467 | 159.1 | 0.468 | 2.62 | 39.6 | 38.1 | 1.93 | 28.6 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 203 | 8.19 | 8.17 | 34.002 | 26.465 | 159.3 | 0.473 | 2.62 | 39.5 | 38.5 | 1.93 | 28.6 | 0.00 | 0.00 | 0.00 | 0.02 | 204 207 | |
| 227 | 8.26 | 8.24 | 34.101 | 26.533 | 153.4 | 0.511 | 1.72 | 26.0 | 44.2 | 2.24 | 31.3 | 0.00 | 0.00 | | | 228 206 | |
| 250 ISL | 8.11 D | 8.08 | 34.134 D | 26.581 | 149.1 | 0.546 | 1.52 D | 22.9 | 47.9 | 2.36 | 32.6 | 0.00 | 0.00 | | | 251 | |
| 269 | 7.92 | 7.89 | 34.154 | 26.625 | 145.2 | 0.574 | 1.27 | 19.1 | 50.4 | 2.40 | 33.2 | 0.00 | 0.00 | | | 271 205 | |
| 300 ISL | 7.63 D | 7.60 | 34.179 D | 26.688 | 139.7 | 0.618 | 1.09 D | 16.3 | 54.5 | 2.48 | 34.4 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.45 | 7.42 | 34.189 | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | | |
| 32 | 39.5 N | 121 1.7 W | 21/01/11 | 1847 | UTC | 3790 m | 270 | 07 kn | 100 04 06 | 0 | 1018.3 mb | 15.2 | C 13.9 C | 18m | 0/8 | | | |
| 0 | ISL | 14.50 | 14.50 | 32.958 | 24.506 | 341.9 | 0.000 | 5.97 | 102.6 | 2.6 | 0.30 | 0.0 | 0.00 | 0.41 | 0.12 | 0 | | |
| 3 | A | 14.50 | 14.50 | 32.958 | 24.506 | 341.9 | 0.010 | 5.97 | 102.6 | 2.6 | 0.30 | 0.0 | 0.00 | 0.41 | 0.12 | 3 | 223 | |
| 10 | ISL | 14.43 | 14.43 | 32.949 | D 24.514 | 341.3 | 0.034 | 6.01 | D 103.1 | 2.6 | 0.30 | 0.0 | 0.00 | 0.41 | 0.12 | 10 | | |
| 12 | A | 14.43 | 14.43 | 32.949 | 24.514 | 341.4 | 0.041 | 5.97 | 102.4 | 2.6 | 0.30 | 0.0 | 0.00 | 0.41 | 0.12 | 12 | 221 | |
| 12 | | 14.44 | 14.44 | 32.952 | 24.514 | 341.4 | 0.041 | | | | | | | | | 12 | 222 | |
| 14 | A | 14.35 | 14.35 | 32.950 | 24.531 | 339.8 | 0.048 | 5.97 | 102.3 | 2.5 | 0.30 | 0.0 | 0.00 | 0.39 | 0.12 | 14 | 220 | |
| 19 | A | 14.13 | 14.13 | 32.938 | 24.568 | 336.4 | 0.065 | 5.98 | 102.0 | 2.7 | 0.32 | 0.2 | 0.02 | 0.00 | 0.41 | 0.14 | 19 | 219 |
| 20 | ISL | 14.10 | D 14.10 | 32.938 | D 24.575 | 335.8 | 0.068 | 6.02 | D 102.6 | 2.7 | 0.32 | 0.2 | 0.02 | 0.00 | 0.42 | 0.14 | 20 | |
| 28 | A | 13.94 | 13.94 | 32.939 | 24.609 | 332.8 | 0.095 | 5.98 | 101.6 | 2.8 | 0.34 | 0.4 | 0.04 | 0.00 | 0.52 | 0.17 | 28 | 218 |
| 30 | ISL | 13.91 | D 13.91 | 32.941 | D 24.616 | 332.1 | 0.101 | 6.01 | D 102.0 | 2.8 | 0.34 | 0.5 | 0.04 | 0.00 | 0.51 | 0.17 | 30 | |
| 38 | | 13.80 | 13.79 | 32.952 | 24.648 | 329.4 | 0.128 | 5.96 | 101.0 | 3.0 | 0.36 | 0.7 | 0.07 | 0.03 | 0.41 | 0.17 | 38 | 217 |
| 48 | | 13.69 | 13.68 | 32.978 | 24.691 | 325.5 | 0.161 | 5.92 | 100.1 | 3.1 | 0.39 | 1.0 | 0.12 | 0.10 | 0.35 | 0.20 | 48 | 216 |
| 50 | ISL | 13.63 | D 13.62 | 32.996 | D 24.717 | 323.1 | 0.167 | 5.90 | D 99.6 | 3.2 | 0.40 | 1.2 | 0.15 | 0.11 | 0.33 | 0.20 | 50 | |
| 59 | A | 13.44 | 13.43 | 33.063 | 24.807 | 314.7 | 0.196 | 5.78 | 97.2 | 3.6 | 0.46 | 2.0 | 0.21 | 0.15 | 0.24 | 0.20 | 59 | 215 |
| 64 | | 13.04 | 13.03 | 33.114 | 24.927 | 303.5 | 0.211 | 5.68 | 94.8 | 3.8 | 0.47 | 2.4 | 0.14 | 0.00 | 0.17 | 0.17 | 64 | 214 |
| 70 | | 12.48 | 12.47 | 33.165 | 25.075 | 289.4 | 0.229 | 5.56 | 91.7 | 4.5 | 0.51 | 3.4 | 0.04 | 0.00 | 0.13 | 0.14 | 70 | 213 |
| 75 | ISL | 11.54 | D 11.53 | 33.081 | D 25.186 | 278.8 | 0.243 | 5.55 | D 89.7 | 5.5 | 0.60 | 4.8 | 0.03 | 0.00 | 0.11 | 0.11 | 75 | |
| 85 | | 11.14 | 11.13 | 33.088 | 25.264 | 271.6 | 0.271 | 5.23 | 83.8 | 7.9 | 0.83 | 8.2 | 0.00 | 0.00 | 0.07 | 0.07 | 85 | 212 |
| 100 | | 10.22 | 10.21 | 33.183 | 25.499 | 249.5 | 0.310 | 4.93 | 77.5 | 11.7 | 1.14 | 12.6 | 0.00 | 0.00 | 0.04 | 0.04 | 100 | 211 |
| 121 | | 9.60 | 9.59 | 33.298 | 25.692 | 231.4 | 0.360 | 4.54 | 70.4 | 16.3 | 1.37 | 17.0 | 0.00 | 0.00 | 0.01 | 0.03 | 122 | 210 |
| 125 | ISL | 9.46 | D 9.45 | 33.413 | D 25.805 | 220.8 | 0.369 | 4.31 | D 66.7 | 17.8 | 1.45 | 18.3 | 0.00 | 0.00 | 0.01 | 0.03 | 126 | |
| 141 | | 9.15 | 9.13 | 33.586 | 25.990 | 203.5 | 0.403 | 3.66 | 56.3 | 24.1 | 1.77 | 23.3 | 0.00 | 0.00 | 0.01 | 0.03 | 142 | 209 |
| 150 | ISL | 9.02 | D 9.00 | 33.689 | D 26.091 | 194.0 | 0.421 | 3.44 | D 52.8 | 26.5 | 1.87 | 25.0 | 0.00 | 0.00 | 0.01 | 0.03 | 151 | |
| 170 | | 8.80 | 8.78 | 33.841 | 26.245 | 179.7 | 0.459 | 2.85 | 43.6 | 30.8 | 2.02 | 27.4 | 0.00 | 0.00 | 0.00 | 0.04 | 171 | 208 |
| 200 | ISL | 8.30 | D 8.28 | 33.981 | D 26.432 | 162.4 | 0.510 | 2.49 | D 37.7 | 36.2 | 2.18 | 29.5 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 201 | | 8.32 | 8.30 | 33.977 | 26.426 | 163.0 | 0.512 | 2.44 | 36.9 | 36.4 | 2.18 | 29.5 | 0.00 | 0.00 | 0.00 | 0.02 | 202 | 207 |
| 230 | | 8.03 | 8.01 | 34.021 | 26.504 | 156.0 | 0.558 | 2.32 | 34.9 | 39.9 | 2.26 | 30.3 | 0.00 | 0.00 | | | 231 | 206 |
| 250 | ISL | 7.95 | D 7.92 | 34.072 | D 26.556 | 151.4 | 0.589 | 1.87 | D 28.1 | 43.9 | 2.38 | 31.8 | 0.00 | 0.00 | | | 251 | |
| 271 | | 7.61 | 7.58 | 34.096 | 26.625 | 145.1 | 0.620 | 1.55 | 23.1 | 48.5 | 2.52 | 33.6 | 0.00 | 0.00 | | | 273 | 205 |
| 300 | ISL | 7.02 | D 6.99 | 34.062 | D 26.681 | 139.9 | 0.661 | 1.60 | D 23.5 | 53.7 | 2.61 | 35.1 | 0.00 | 0.00 | | | 302 | |
| 320 | | 6.79 | 6.76 | 34.075 | 26.723 | 136.1 | 0.689 | 1.37 | 20.0 | 57.0 | 2.66 | 36.0 | 0.00 | 0.00 | | | 322 | 204 |
| 380 | | 6.42 | 6.39 | 34.155 | 26.836 | 126.0 | 0.767 | 0.76 | 11.0 | 66.8 | 2.86 | 38.4 | 0.00 | 0.00 | | | 382 | 203 |
| 400 | ISL | 6.25 | D 6.21 | 34.174 | D 26.873 | 122.7 | 0.792 | 0.69 | D 10.0 | 69.6 | 2.93 | 39.0 | 0.00 | 0.00 | | | 403 | |
| 440 | | 6.00 | 5.96 | 34.201 | 26.926 | 117.9 | 0.840 | 0.53 | 7.6 | 74.9 | 3.04 | 39.9 | 0.00 | 0.00 | | | 443 | 202 |
| 500 | ISL | 5.66 | D 5.62 | 34.248 | D 27.006 | 110.9 | 0.909 | 0.42 | D 6.0 | 83.2 | 3.12 | 41.0 | 0.00 | 0.00 | | | 503 | |
| 516 | | 5.53 | 5.49 | 34.253 | 27.026 | 109.1 | 0.927 | 0.35 | 5.0 | 85.4 | 3.14 | 41.3 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | | |
| 32 | 19.2 N | 121 43.1 W | 22/01/11 | 0117 | UTC | 4067 m | 270 | 08 kn | 290 04 06 | 0 | 1016.3 mb | 15.0 | C 13.3 C | 3/8 | CS | | | |
| 0 | ISL | 15.24 | 15.24 | 32.994 | 24.375 | 354.3 | 0.000 | 5.81 | 101.4 | 2.2 | 0.29 | 0.0 | 0.00 | 0.17 | 0.05 | 0 | | |
| 2 | | 15.24 | 32.994 | 24.375 | 354.4 | 0.007 | 5.81 | 101.4 | 2.2 | 0.29 | 0.0 | 0.00 | 0.17 | 0.05 | 2 | 221 | | |
| 9 | | 15.22 | 15.22 | 32.995 | 24.380 | 354.1 | 0.032 | | | | | | | | 9 | 220 | | |
| 10 | | 15.22 | 15.22 | 32.994 | 24.379 | 354.2 | 0.035 | 5.80 | 101.2 | 2.2 | 0.28 | 0.0 | 0.00 | 0.18 | 0.05 | 10 | 219 | |
| 20 | ISL | 15.10 | D 15.10 | 32.996 | D 24.407 | 351.8 | 0.071 | 5.82 | D 101.3 | 2.2 | 0.28 | 0.0 | 0.00 | 0.17 | 0.06 | 20 | | |
| 25 | | 15.10 | 15.10 | 32.997 | 24.408 | 351.9 | 0.088 | 5.79 | 100.7 | 2.2 | 0.28 | 0.0 | 0.00 | 0.17 | 0.07 | 25 | 218 | |
| 30 | ISL | 15.09 | D 15.09 | 32.996 | D 24.410 | 351.9 | 0.106 | 5.79 | D 100.7 | 2.2 | 0.28 | 0.0 | 0.00 | 0.17 | 0.07 | 30 | | |
| 40 | | 15.09 | 15.08 | 32.996 | 24.410 | 352.2 | 0.141 | 5.79 | 100.7 | 2.2 | 0.28 | 0.0 | 0.00 | 0.18 | 0.06 | 40 | 217 | |
| 50 | | 15.09 | 15.08 | 32.995 | 24.410 | 352.5 | 0.176 | 5.80 | 100.9 | 2.2 | 0.28 | 0.0 | 0.00 | 0.21 | 0.07 | 50 | 216 | |
| 62 | | 15.09 | 15.08 | 32.997 | 24.411 | 352.7 | 0.219 | 5.79 | 100.7 | 2.1 | 0.29 | 0.0 | 0.00 | 0.22 | 0.06 | 62 | 215 | |
| 75 | | 15.09 | 15.08 | 32.996 | 24.411 | 353.1 | 0.265 | 5.77 | 100.4 | 2.1 | 0.28 | 0.0 | 0.00 | 0.22 | 0.06 | 75 | 214 | |
| 87 | | 13.96 | 13.95 | 33.027 | 24.674 | 328.2 | 0.305 | 5.78 | 98.3 | 2.9 | 0.37 | 0.5 | 0.15 | 0.06 | 0.20 | 87 | 213 | |
| 100 | ISL | 13.04 | D 13.03 | 33.189 | D 24.986 | 298.8 | 0.346 | 5.60 | D 93.5 | 3.7 | 0.41 | 1.9 | 0.05 | 0.01 | 0.13 | 0.12 | 100 | |
| 101 | | 13.04 | 13.03 | 33.200 | 24.994 | 298.0 | 0.349 | 5.60 | 93.5 | 3.8 | 0.42 | 2.1 | 0.04 | 0.00 | 0.12 | 0.12 | 101 | 212 |
| 112 | | 12.03 | 12.02 | 33.096 | 25.108 | 287.3 | 0.381 | 5.44 | 88.9 | 5.3 | 0.59 | 4.6 | 0.01 | 0.00 | 0.08 | 0.07 | 112 | 211 |
| 124 | | 11.10 | 11.08 | 33.092 | 25.275 | 271.4 | 0.415 | 5.23 | 83.7 | 7.9 | 0.83 | 8.2 | 0.00 | 0.00 | 0.05 | 0.04 | 125 | 210 |
| 125 | ISL | 11.03 | D 11.01 | 33.099 | D 25.293 | 269.8 | 0.418 | 5.23 | D 83.6 | 8.2 | 0.85 | 8.5 | 0.00 | 0.00 | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.69 | 15.69 | 33.143 | 24.390 | 352.9 | 0.000 | 5.71 | 100.6 | 2.3 | 0.29 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 0 | |
| 2 | 15.69 | 15.69 | 33.143 | 24.390 | 352.9 | 0.007 | 5.71 | 100.6 | 2.3 | 0.29 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 2 | 221 |
| 10 | 15.71 | 15.71 | 33.144 | 24.387 | 353.5 | 0.035 | 5.73 | 101.0 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 10 | 219 |
| 10 | 15.71 | 15.71 | 33.143 | 24.386 | 353.6 | 0.035 | | | | | | | | | | 10 | 220 |
| 20 ISL | 15.71 | D 15.71 | 33.145 | D 24.388 | 353.7 | 0.071 | 5.75 | D 101.4 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.15 | 0.04 | 20 | |
| 25 | 15.70 | 15.70 | 33.144 | 24.389 | 353.7 | 0.088 | 5.72 | 100.8 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 25 | 218 |
| 30 ISL | 15.70 | D 15.70 | 33.145 | D 24.390 | 353.8 | 0.106 | 5.75 | D 101.3 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 30 | |
| 40 | 15.70 | 15.69 | 33.146 | 24.391 | 354.0 | 0.141 | 5.74 | 101.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.00 | 0.16 | 0.06 | 40 | 217 |
| 50 ISL | 15.70 | D 15.69 | 33.148 | D 24.393 | 354.1 | 0.177 | 5.73 | D 101.0 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 50 | |
| 51 | 15.70 | 15.69 | 33.152 | 24.396 | 353.8 | 0.180 | 5.72 | 100.8 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 51 | 216 |
| 62 | 15.70 | 15.69 | 33.149 | 24.394 | 354.4 | 0.219 | 5.70 | 100.5 | 2.3 | 0.28 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 62 | 215 |
| 75 | 15.71 | 15.70 | 33.151 | 24.394 | 354.8 | 0.265 | 5.70 | 100.5 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.20 | 0.06 | 75 | 214 |
| 88 | 15.69 | 15.68 | 33.153 | 24.401 | 354.6 | 0.312 | 5.70 | 100.4 | 2.4 | 0.28 | 0.0 | 0.00 | 0.00 | 0.19 | 0.07 | 88 | 213 |
| 100 ISL | 13.09 | D 13.08 | 33.037 | D 24.858 | 311.0 | 0.351 | 5.68 | D 94.8 | 3.7 | 0.43 | 1.5 | 0.02 | 0.00 | 0.24 | 0.16 | 100 | |
| 101 | 13.11 | 13.10 | 33.041 | 24.857 | 311.1 | 0.355 | 5.68 | 94.9 | 3.8 | 0.45 | 1.7 | 0.02 | 0.00 | 0.24 | 0.17 | 101 | 212 |
| 112 | 11.94 | 11.93 | 33.061 | 25.098 | 288.2 | 0.388 | 5.45 | 88.8 | 5.6 | 0.63 | 4.8 | 0.00 | 0.00 | 0.08 | 0.08 | 112 | 211 |
| 125 | 11.06 | 11.04 | 33.108 | 25.295 | 269.6 | 0.424 | 5.20 | 83.2 | 8.5 | 0.89 | 8.8 | 0.00 | 0.00 | 0.05 | 0.05 | 126 | 210 |
| 140 | 10.24 | 10.22 | 33.287 | 25.577 | 242.9 | 0.462 | 4.81 | 75.7 | 12.8 | 1.17 | 13.5 | 0.00 | 0.00 | 0.02 | 0.03 | 141 | 209 |
| 150 ISL | 9.55 | D 9.53 | 33.361 | D 25.750 | 226.5 | 0.486 | 4.52 | D 70.1 | 15.6 | 1.31 | 16.0 | 0.00 | 0.00 | 0.02 | 0.03 | 151 | |
| 169 | 9.42 | 9.40 | 33.648 | 25.996 | 203.6 | 0.527 | 4.04 | 62.6 | 20.8 | 1.53 | 20.1 | 0.00 | 0.00 | 0.01 | 0.02 | 170 | 208 |
| 199 | 8.81 | 8.79 | 33.850 | 26.251 | 179.7 | 0.584 | 3.27 | 50.0 | 28.8 | 1.85 | 25.3 | 0.00 | 0.00 | 0.00 | 0.02 | 200 | 207 |
| 200 ISL | 8.79 | D 8.77 | 33.869 | D 26.269 | 178.0 | 0.586 | 3.30 | D 50.5 | 28.9 | 1.85 | 25.4 | 0.00 | 0.00 | | | 201 | |
| 230 | 8.45 | 8.43 | 33.952 | 26.387 | 167.3 | 0.638 | 3.10 | 47.1 | 32.2 | 1.91 | 26.4 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.10 | D 8.07 | 33.986 | D 26.467 | 160.0 | 0.670 | 2.84 | D 42.8 | 35.9 | 2.00 | 27.8 | 0.00 | 0.00 | | | 251 | |
| 270 | 7.82 | 7.79 | 33.998 | 26.518 | 155.3 | 0.702 | 2.62 | 39.2 | 40.2 | 2.12 | 29.4 | 0.00 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.33 | D 7.30 | 34.019 | D 26.604 | 147.3 | 0.747 | 2.23 | D 33.0 | 46.2 | 2.29 | 31.7 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.09 | 7.06 | 34.024 | 26.642 | 144.0 | 0.778 | 2.02 | 29.7 | 50.5 | 2.41 | 33.2 | 0.00 | 0.00 | | | 323 | 204 |
| 381 | 6.40 | 6.37 | 34.089 | 26.786 | 130.7 | 0.860 | 1.19 | 17.2 | 63.6 | 2.74 | 37.3 | 0.00 | 0.00 | | | 383 | 203 |
| 400 ISL | 6.29 | D 6.25 | 34.096 | D 26.806 | 129.0 | 0.885 | 1.14 | D 16.5 | 66.4 | 2.80 | 38.0 | 0.00 | 0.00 | | | 402 | |
| 441 | 5.99 | 5.95 | 34.125 | 26.867 | 123.5 | 0.937 | 0.89 | 12.8 | 71.6 | 2.90 | 39.1 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 5.51 | D 5.47 | 34.179 | D 26.969 | 114.1 | 1.007 | 0.59 | D 8.4 | 80.4 | 3.05 | 40.7 | 0.00 | 0.00 | | | 503 | |
| 517 | 5.46 | 5.42 | 34.188 | 26.983 | 113.0 | 1.026 | 0.52 | 7.4 | 83.0 | 3.09 | 41.1 | 0.00 | 0.00 | | | 520 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 100.0

| 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 | SVA | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 15.26 | 15.26 | 33.072 | 24.430 | 349.0 | 0.000 | 5.77 | 100.8 | 2.2 | 0.28 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 0 | |
| 2 | 15.26 | 15.26 | 33.072 | 24.430 | 349.1 | 0.007 | 5.77 | 100.8 | 2.2 | 0.28 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 2 | 224 |
| 10 | 15.26 | 15.26 | 33.068 | 24.427 | 349.6 | 0.035 | 5.78 | 100.9 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.16 | 0.04 | 10 | 222 |
| 10 | 15.26 | 15.26 | 33.067 | 24.427 | 349.7 | 0.035 | | | | | | | | | | 10 | 223 |
| 13 | 15.25 | 15.25 | 33.069 | 24.430 | 349.4 | 0.045 | 5.77 | 100.7 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 13 | 221 |
| 16 | 15.26 | 15.26 | 33.069 | 24.428 | 349.7 | 0.056 | 5.79 | 101.1 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 16 | 220 |
| 20 ISL | 15.27 | D 15.27 | 33.068 | D 24.426 | 350.1 | 0.070 | 5.78 | D 101.0 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 20 | |
| 22 | 15.26 | 15.26 | 33.067 | 24.427 | 350.0 | 0.077 | 5.77 | 100.8 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 22 | 219 |
| 30 ISL | 15.39 | D 15.39 | 33.114 | D 24.435 | 349.5 | 0.105 | 5.76 | D 100.9 | 2.2 | 0.25 | 0.0 | 0.00 | 0.00 | 0.18 | 0.07 | 30 | |
| 32 | 15.39 | 15.39 | 33.117 | 24.437 | 349.3 | 0.112 | 5.76 | 100.9 | 2.3 | 0.25 | 0.0 | 0.00 | 0.00 | 0.19 | 0.07 | 32 | 218 |
| 45 | 15.37 | 15.36 | 33.116 | 24.441 | 349.3 | 0.157 | 5.75 | 100.7 | 2.3 | 0.25 | 0.0 | 0.00 | 0.00 | 0.23 | 0.07 | 45 | 217 |
| 50 ISL | 15.36 | D 15.35 | 33.111 | D 24.440 | 349.6 | 0.175 | 5.75 | D 100.6 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.24 | 0.08 | 50 | |
| 56 | 15.35 | 15.34 | 33.116 | 24.446 | 349.2 | 0.196 | 5.75 | 100.6 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.25 | 0.08 | 56 | 216 |
| 68 | 15.37 | 15.36 | 33.125 | 24.449 | 349.3 | 0.238 | 5.75 | 100.7 | 2.2 | 0.25 | 0.0 | 0.00 | 0.00 | 0.27 | 0.07 | 68 | 215 |
| 75 | 13.81 | 13.80 | 33.000 | 24.684 | 327.0 | 0.261 | 5.86 | 99.3 | 3.0 | 0.35 | 0.7 | 0.10 | 0.14 | 0.30 | 0.22 | 75 | 214 |
| 84 | 13.58 | 13.57 | 33.081 | 24.793 | 316.7 | 0.290 | 5.79 | 97.7 | 3.2 | 0.36 | 0.9 | 0.11 | 0.00 | 0.24 | 0.18 | 84 | 213 |
| 95 | 13.35 | 13.34 | 33.251 | 24.972 | 300.1 | 0.324 | 5.68 | 95.5 | 3.5 | 0.33 | 1.2 | 0.05 | 0.00 | 0.20 | 0.17 | 95 | 212 |
| 100 ISL | 12.70 | D 12.69 | 33.187 | D 25.051 | 292.6 | 0.339 | 5.67 | D 94.0 | 3.8 | 0.37 | 1.8 | 0.03 | 0.00 | 0.17 | 0.15 | 100 | |
| 110 | 12.19 | 12.18 | 33.163 | 25.130 | 285.2 | 0.368 | 5.48 | 89.9 | 5.0 | 0.52 | 3.9 | 0.01 | 0.00 | 0.11 | 0.11 | 110 | 211 |
| 125 ISL | 10.99 | D 10.97 | 33.205 | D 25.383 | 261.2 | 0.409 | 5.15 | D 82.3 | 8.6 | 0.83 | 8.8 | 0.00 | 0.00 | 0.05 | 0.06 | 126 | |
| 126 | 10.93 | 10.91 | 33.166 | 25.363 | 263.1 | 0.412 | 5.15 | 82.2 | 8.9 | 0.85 | 9.1 | 0.00 | 0.00 | 0.05 | 0.06 | 127 | 210 |
| 145 | 10.20 | 10.18 | 33.396 | 25.669 | 234.3 | 0.459 | 4.79 | 75.3 | 13.0 | 1.09 | 13.3 | 0.00 | 0.00 | 0.02 | 0.03 | 146 | 209 |
| 150 ISL | 10.13 | D 10.11 | 33.425 | D 25.704 | 231.1 | 0.470 | 4.76 | D 74.8 | 14.8 | 1.20 | 15.0 | 0.00 | 0.00 | 0.01 | 0.03 | 151 | |
| 171 | 9.38 | 9.36 | 33.575</ | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 19.4 N | 123 44.5 W | 22/01/11 | 1946 | UTC | 3872 m | 320 | 06 kn | 330 03 04 | 1 | 1016.7 mb | 15.5 C | 13.9 C | 32m | 2/8 | AC | | |
| 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 | 15.76 | 15.76 | 33.179 | 24.402 | 351.7 | 0.000 | 5.71 | 100.8 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 0 | |
| 2 A | 15.76 | 15.76 | 33.179 | 24.402 | 351.8 | 0.007 | 5.71 | 100.8 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 2 222 | |
| 10 ISL | 15.73 | 15.73 | 33.185 D | 24.414 | 350.9 | 0.035 | 5.75 | D101.4 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.13 | 0.05 | 10 | |
| 12 | 15.73 | 15.73 | 33.187 | 24.415 | 350.8 | 0.042 | 5.72 | 100.9 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.13 | 0.05 | 12 220 | |
| 12 | 15.73 | 15.73 | 33.184 | 24.413 | 351.1 | 0.042 | | | | | | | | | | 12 221 | |
| 20 ISL | 15.74 | 15.74 | 33.189 D | 24.415 | 351.1 | 0.070 | 5.75 | D101.5 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.13 | 0.04 | 20 | |
| 21 A | 15.74 | 15.74 | 33.189 | 24.415 | 351.1 | 0.074 | 5.73 | 101.1 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.13 | 0.04 | 21 219 | |
| 24 A | 15.73 | 15.73 | 33.194 | 24.421 | 350.7 | 0.084 | 5.72 | 100.9 | 2.3 | 0.25 | 0.0 | 0.00 | 0.00 | 0.13 | 0.05 | 24 218 | |
| 30 ISL | 15.72 | 15.72 | 33.186 D | 24.417 | 351.2 | 0.105 | 5.75 | D101.4 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.13 | 0.05 | 30 | |
| 34 A | 15.75 | 15.74 | 33.197 | 24.419 | 351.1 | 0.119 | 5.73 | 101.1 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.13 | 0.05 | 34 217 | |
| 42 | 15.75 | 15.74 | 33.197 | 24.420 | 351.4 | 0.147 | 5.72 | 100.9 | 2.2 | 0.25 | 0.0 | 0.00 | 0.02 | 0.14 | 0.04 | 42 216 | |
| 50 A | 15.74 | 15.73 | 33.197 | 24.422 | 351.4 | 0.176 | 5.76 | 101.6 | 2.3 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 50 215 | |
| 69 | 15.83 | 15.82 | 33.220 | 24.420 | 352.2 | 0.242 | 5.71 | 100.9 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 69 214 | |
| 75 ISL | 15.87 | 15.86 | 33.230 D | 24.419 | 352.4 | 0.264 | 5.71 | D101.0 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.17 | 0.06 | 75 | |
| 87 | 15.83 | 15.82 | 33.239 | 24.435 | 351.3 | 0.306 | 5.70 | 100.8 | 2.3 | 0.24 | 0.0 | 0.00 | 0.00 | 0.20 | 0.07 | 87 213 | |
| 100 ISL | 14.56 | 14.55 | 33.252 D | 24.723 | 324.1 | 0.350 | 5.77 | D99.4 | 2.9 | 0.30 | 0.2 | 0.08 | 0.00 | 0.25 | 0.14 | 100 | |
| 101 A | 14.47 | 14.46 | 33.242 | 24.734 | 323.0 | 0.353 | 5.78 | 99.4 | 2.9 | 0.30 | 0.2 | 0.09 | 0.00 | 0.25 | 0.15 | 101 212 | |
| 114 | 14.54 | 14.52 | 33.496 | 24.916 | 306.2 | 0.394 | 5.75 | 99.2 | 3.0 | 0.23 | 0.2 | 0.11 | 0.00 | 0.17 | 0.18 | 114 211 | |
| 124 | 14.13 | 14.11 | 33.505 | 25.009 | 297.5 | 0.424 | 5.72 | 97.9 | 3.1 | 0.24 | 0.4 | 0.14 | 0.00 | 0.15 | 0.16 | 125 210 | |
| 125 ISL | 14.09 | 14.07 | 33.499 D | 25.013 | 297.1 | 0.427 | 5.72 | D97.8 | 3.1 | 0.25 | 0.5 | 0.14 | 0.00 | 0.15 | 0.16 | 126 | |
| 145 | 12.05 | 12.03 | 33.295 | 25.260 | 273.7 | 0.484 | 5.42 | 88.7 | 5.3 | 0.54 | 4.5 | 0.00 | 0.00 | 0.07 | 0.08 | 146 209 | |
| 150 ISL | 10.82 | 10.80 | 33.199 D | 25.409 | 259.3 | 0.497 | 5.19 | D82.6 | 6.5 | 0.64 | 6.1 | 0.00 | 0.00 | 0.06 | 0.07 | 151 | |
| 170 | 10.35 | 10.33 | 33.442 | 25.680 | 233.9 | 0.547 | 4.83 | 76.2 | 12.4 | 1.07 | 13.0 | 0.00 | 0.00 | 0.02 | 0.03 | 171 208 | |
| 200 | 9.30 | 9.28 | 33.754 | 26.098 | 194.4 | 0.611 | 4.08 | 63.0 | 21.9 | 1.51 | 20.3 | 0.00 | 0.00 | 0.00 | 0.01 | 201 207 | |
| 229 | 8.75 | 8.73 | 33.910 | 26.308 | 174.9 | 0.665 | 2.90 | 44.3 | 31.7 | 1.98 | 27.1 | 0.00 | 0.00 | | | 230 206 | |
| 250 ISL | 8.33 | 8.30 | 33.967 D | 26.417 | 164.8 | 0.700 | 2.50 | D37.8 | 36.1 | 2.14 | 29.3 | 0.00 | 0.00 | | | 251 | |
| 268 | 8.07 | 8.04 | 33.989 | 26.474 | 159.6 | 0.729 | 2.32 | 34.9 | 39.2 | 2.22 | 30.4 | 0.00 | 0.00 | | | 269 205 | |
| 300 ISL | 7.55 | 7.52 | 34.020 D | 26.574 | 150.3 | 0.779 | 2.13 | D31.7 | 45.5 | 2.36 | 32.4 | 0.00 | 0.00 | | | 302 | |
| 322 | 7.22 | 7.19 | 34.028 | 26.627 | 145.4 | 0.811 | 1.85 | 27.3 | 49.8 | 2.44 | 33.6 | 0.00 | 0.00 | | | 324 204 | |
| 381 | 6.55 | 6.52 | 34.064 | 26.747 | 134.6 | 0.894 | 1.32 | 19.2 | 60.6 | 2.71 | 36.8 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 6.39 | 6.35 | 34.069 D | 26.772 | 132.3 | 0.919 | 1.24 | D18.0 | 63.5 | 2.77 | 37.5 | 0.00 | 0.00 | | | 402 | |
| 440 | 6.01 | 5.97 | 34.088 | 26.836 | 126.5 | 0.971 | 1.04 | 14.9 | 69.6 | 2.87 | 38.8 | 0.00 | 0.00 | | | 443 202 | |
| 500 ISL | 5.59 | 5.55 | 34.150 D | 26.937 | 117.3 | 1.044 | 0.70 | D9.9 | 79.9 | 3.05 | 40.5 | 0.00 | 0.00 | | | 503 | |
| 516 | 5.53 | 5.49 | 34.176 | 26.965 | 114.8 | 1.063 | 0.55 | 7.8 | 82.7 | 3.10 | 41.0 | 0.00 | 0.00 | | | 519 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.8 32.5

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|-------|--------|-----------|
| 33 53.3 N | 118 26.7 W | 20/01/11 | 0539 | UTC | 28 m | 040 | 05 kn | | | 1013.2 mb | 15.0 C | 13.2 C | 32m | 2/8 | AC | | |
| 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 | 14.71 | 14.71 | 33.155 | 24.613 | 331.6 | 0.000 | 7.15 | 123.6 | 1.1 | 0.18 | 0.0 | 0.00 | 0.06 | 2.14 | 0.42 | 0 | |
| 2 | 14.71 | 14.71 | 33.155 | 24.613 | 331.7 | 0.007 | 7.15 | 123.6 | 1.1 | 0.18 | 0.0 | 0.00 | 0.06 | 2.14 | 0.42 | 2 205 | |
| 5 | 14.69 | 14.69 | 33.155 | 24.617 | 331.4 | 0.017 | 7.17 | 123.9 | 1.0 | 0.20 | 0.0 | 0.00 | 0.08 | 2.26 | 0.44 | 5 204 | |
| 10 | 14.22 | 14.22 | 33.158 | 24.719 | 321.8 | 0.033 | 7.29 | 124.7 | 0.9 | 0.20 | 0.0 | 0.00 | 0.04 | 4.49 | 0.74 | 10 203 | |
| 15 | 13.40 | 13.40 | 33.175 | 24.901 | 304.6 | 0.049 | 5.74 | 96.6 | 3.0 | 0.46 | 1.0 | 0.08 | 1.27 | 6.39 | 1.34 | 15 202 | |
| 20 | 13.28 | 13.28 | 33.201 | 24.945 | 300.6 | 0.064 | 5.18 | 86.9 | 5.1 | 0.71 | 3.0 | 0.22 | 3.94 | 2.67 | 0.98 | 20 201 | |

A) UNUSUAL PROFILES AND ODD N03/P04 RATIOS MAY BE DUE TO THE PROXIMITY OF THIS STATION TO THE HYPERION WASTE-WATER OUTFALL.

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| 0 ISL | 14.24 | 14.24 | 33.037 | 24.621 | 330.8 | 0.000 | 7.22 | 123.5 | 1.9 | 0.25 | 0.1 | 0.03 | 0.02 | 10.48 | 1.53 | 0 | |
| 2 | 14.24 | 14.24 | 33.037 | 24.621 | 330.9 | 0.007 | 7.22 | 123.5 | 1.9 | 0.25 | 0.1 | 0.03 | 0.02 | 10.48 | 1.53 | 2 | 205 |
| 5 | 14.24 | 14.24 | 33.038 | 24.622 | 330.9 | 0.017 | 7.30 | 124.9 | 1.9 | 0.25 | 0.1 | 0.03 | 0.01 | 10.81 | 1.02 | 5 | 204 |
| 10 | 13.99 | 13.99 | 33.172 | 24.778 | 316.2 | 0.033 | 6.32 | 107.6 | 2.7 | 0.47 | 1.2 | 0.15 | 0.16 | 8.23 | 0.76 | 10 | 203 |
| 15 | 13.56 | 13.56 | 33.236 | 24.916 | 303.2 | 0.048 | 5.42 | 91.5 | 4.9 | 0.81 | 3.8 | 0.47 | 0.93 | 2.72 | 1.13 | 15 | 202 |
| 20 | 13.23 | 13.23 | 33.287 | 25.021 | 293.3 | 0.063 | 4.87 | 81.7 | 7.6 | 1.10 | 6.8 | 0.69 | 1.99 | 0.87 | 0.67 | 20 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| 0 ISL | 14.53 | 14.53 | 32.990 | 24.524 | 340.1 | 0.000 | 8.12 | 139.7 | 0.0 | 0.11 | 0.0 | 0.00 | 0.00 | 11.94 | 1.91 | 0 | |
| 2 | 14.53 | 14.53 | 32.990 | 24.524 | 340.1 | 0.007 | 8.12 | 139.7 | 0.0 | 0.11 | 0.0 | 0.00 | 0.00 | 11.94 | 1.91 | 2 | 208 |
| 5 | 14.53 | 14.53 | 32.993 | 24.526 | 340.0 | 0.017 | 8.25 | 141.9 | 0.0 | 0.09 | 0.0 | 0.00 | 0.02 | 15.05 | 1.79 | 5 | 207 |
| 10 | 14.05 | 14.05 | 33.060 | 24.679 | 325.6 | 0.034 | 6.44 | 109.7 | 1.0 | 0.23 | 0.0 | 0.01 | 0.01 | 8.35 | 2.03 | 10 | 206 |
| 20 | 13.78 | 13.78 | 33.303 | 24.922 | 302.7 | 0.065 | 5.48 | 93.0 | 3.9 | 0.59 | 3.3 | 0.37 | 0.77 | 0.81 | 0.55 | 20 | 205 |
| 30 | 11.54 | 11.54 | 33.315 | 25.367 | 260.6 | 0.093 | 4.53 | 73.3 | 10.4 | 1.16 | 12.7 | 0.38 | 0.02 | 0.37 | 0.22 | 30 | 204 |
| 40 | 10.88 | 10.88 | 33.402 | 25.554 | 243.0 | 0.118 | 4.12 | 65.8 | 15.0 | 1.40 | 17.1 | 0.04 | 0.02 | 0.19 | 0.20 | 40 | 203 |
| 50 | 10.48 | 10.47 | 33.522 | 25.718 | 227.7 | 0.142 | 3.57 | 56.6 | 19.6 | 1.61 | 19.9 | 0.10 | 0.02 | 0.09 | 0.17 | 50 | 202 |
| 65 | 10.24 | 10.23 | 33.594 | 25.815 | 218.7 | 0.175 | 3.38 | 53.3 | 21.3 | 1.74 | 21.2 | 0.04 | 0.00 | 0.04 | 0.14 | 65 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| 0 ISL | 14.71 | 14.71 | 33.300 | 24.725 | 321.0 | 0.000 | 6.29 | 108.8 | 1.9 | 0.31 | 0.0 | 0.00 | 0.02 | 1.22 | 0.26 | 0 | |
| 2 A | 14.71 | 14.71 | 33.300 | 24.725 | 321.0 | 0.006 | 6.29 | 108.8 | 1.9 | 0.31 | 0.0 | 0.00 | 0.02 | 1.22 | 0.26 | 2 | 223 |
| 7 A | 14.59 | 14.59 | 33.321 | 24.767 | 317.2 | 0.022 | 6.36 | 109.7 | 1.8 | 0.30 | 0.0 | 0.00 | 0.00 | 1.18 | 0.43 | 7 | 222 |
| 9 A | 14.51 | 14.51 | 33.330 | 24.791 | 315.0 | 0.029 | 6.32 | 108.9 | 2.0 | 0.31 | 0.0 | 0.00 | 0.00 | 1.43 | 0.32 | 9 | 221 |
| 10 ISL | 14.44 D | 14.44 | 33.334 D | 24.809 | 313.3 | 0.032 | 6.30 | 108.4 | 2.1 | 0.32 | 0.0 | 0.00 | 0.01 | 1.52 | 0.36 | 10 | |
| 12 A | 14.41 | 14.41 | 33.334 | 24.815 | 312.7 | 0.038 | 6.20 | 106.6 | 2.2 | 0.33 | 0.1 | 0.01 | 0.02 | 1.61 | 0.48 | 12 | 220 |
| 17 A | 14.35 | 14.35 | 33.348 | 24.839 | 310.6 | 0.054 | 6.07 | 104.2 | 2.5 | 0.36 | 0.6 | 0.03 | 0.03 | 1.12 | 0.28 | 17 | 219 |
| 20 ISL | 14.29 D | 14.29 | 33.350 D | 24.853 | 309.4 | 0.063 | 6.03 | 103.4 | 2.6 | 0.38 | 0.9 | 0.04 | 0.05 | 1.05 | 0.24 | 20 | |
| 26 | 14.24 | 14.24 | 33.353 | 24.866 | 308.3 | 0.082 | 5.86 | 100.4 | 2.8 | 0.42 | 1.6 | 0.08 | 0.11 | 0.92 | 0.16 | 26 | 218 |
| 30 ISL | 13.97 D | 13.97 | 33.317 D | 24.895 | 305.7 | 0.094 | 5.88 | 100.2 | 3.1 | 0.46 | 2.1 | 0.12 | 0.20 | 0.79 | 0.24 | 30 | |
| 37 A | 13.78 | 13.77 | 33.321 | 24.937 | 301.8 | 0.115 | 5.62 | 95.4 | 3.6 | 0.54 | 2.9 | 0.19 | 0.35 | 0.61 | 0.36 | 37 | 217 |
| 43 | 12.41 | 12.40 | 33.296 | 25.190 | 277.8 | 0.132 | 4.93 | 81.3 | 7.8 | 0.92 | 9.1 | 0.25 | 0.00 | 0.57 | 0.22 | 43 | 216 |
| 50 ISL | 11.44 D | 11.43 | 33.344 D | 25.408 | 257.1 | 0.151 | 4.41 D | 71.3 | 11.9 | 1.23 | 14.3 | 0.08 | 0.00 | 0.28 | 0.19 | 50 | |
| 51 | 11.40 | 11.39 | 33.344 | 25.416 | 256.4 | 0.154 | 4.42 | 71.4 | 12.4 | 1.26 | 14.8 | 0.05 | 0.00 | 0.23 | 0.19 | 51 | 215 |
| 60 | 10.71 | 10.70 | 33.319 | 25.520 | 246.7 | 0.176 | 4.38 | 69.6 | 14.5 | 1.34 | 16.1 | 0.02 | 0.00 | 0.12 | 0.10 | 60 | 214 |
| 70 | 10.29 | 10.28 | 33.428 | 25.677 | 231.9 | 0.200 | 4.05 | 63.9 | 17.3 | 1.52 | 18.8 | 0.01 | 0.00 | 0.07 | 0.12 | 70 | 213 |
| 75 ISL | 10.13 D | 10.12 | 33.461 D | 25.730 | 227.0 | 0.212 | 4.03 D | 63.3 | 18.6 | 1.58 | 19.9 | 0.01 | 0.00 | 0.05 | 0.11 | 75 | |
| 86 | 10.02 | 10.01 | 33.597 | 25.855 | 215.3 | 0.236 | 3.52 | 55.2 | 21.2 | 1.69 | 21.8 | 0.00 | 0.00 | 0.03 | 0.07 | 86 | 212 |
| 100 | 9.69 | 9.68 | 33.726 | 26.011 | 200.7 | 0.265 | 3.16 | 49.3 | 24.5 | 1.81 | 23.7 | 0.00 | 0.00 | 0.02 | 0.08 | 101 | 211 |
| 119 | 9.42 | 9.41 | 33.829 | 26.136 | 189.2 | 0.302 | 2.92 | 45.3 | 27.1 | 1.87 | 25.1 | 0.00 | 0.00 | 0.01 | 0.07 | 120 | 210 |
| 125 ISL | 9.39 D | 9.38 | 33.851 D | 26.158 | 187.2 | 0.314 | 2.87 D | 44.5 | 27.9 | 1.90 | 25.5 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | |
| 140 | 9.19 | 9.17 | 33.918 | 26.243 | 179.5 | 0.341 | 2.65 | 40.9 | 30.1 | 1.97 | 26.5 | 0.00 | 0.00 | 0.01 | 0.05 | 141 | 209 |
| 150 ISL | 9.06 D | 9.04 | 33.969 D | 26.304 | 173.9 | 0.359 | 2.60 D | 40.0 | 31.6 | 2.01 | 27.1 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | |
| 170 | 8.87 | 8.85 | 34.032 | 26.384 | 166.6 | 0.393 | 2.28 | 35.0 | 34.5 | 2.09 | 28.2 | 0.00 | 0.00 | 0.00 | 0.05 | 171 | 208 |
| 200 ISL | 8.88 D | 8.86 | 34.144 D | 26.470 | 159.0 | 0.442 | 1.80 D | 27.6 | 38.0 | 2.24 | 29.2 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | |
| 201 | 8.90 | 8.88 | 34.135 | 26.460 | 160.0 | 0.443 | 1.81 | 27.8 | 38.1 | 2.25 | 29.2 | 0.00 | 0.00 | 0.00 | 0.05 | 202 | 207 |
| 231 | 8.63 | 8.61 | 34.177 | 26.536 | 153.4 | 0.490 | 1.49 | 22.7 | 41.9 | 2.36 | 30.6 | 0.00 | 0.00 | | 232 | 206 | |
| 250 ISL | 8.50 D | 8.47 | 34.190 D | 26.566 | 150.8 | 0.519 | 1.39 D | 21.2 | 43.5 | 2.40 | 31.3 | 0.00 | 0.00 | | 251 | | |
| 271 | 8.28 | 8.25 | 34.182 | 26.594 | 148.4 | 0.551 | 1.33 | 20.1 | 45.2 | 2.44 | 31.9 | 0.00 | 0.00 | | 273 | 205 | |
| 300 ISL | 8.14 D | 8.11 | 34.227 D | 26.651 | 143.5 | 0.593 | 1.07 D | 16.2 | 48.2 | 2.55 | 32.8 | 0.00 | 0.00 | | 302 | | |
| 321 | 7.91 | 7.88 | 34.217 | 26.677 | 141.3 | 0.623 | 1.03 | 15.5 | 50.6 | 2.63 | 33.5 | 0.00 | 0.00 | | 323 | 204 | |
| 381 | 7.44 | 7.40 | 34.252 | 26.773 | 132.8 | 0.705 | 0.68 | 10.1 | 58.0 | 2.76 | 35.7 | 0.00 | 0.00 | | 383 | 203 | |
| 400 ISL | 7.29 D | 7.25 | 34.258 D | 26.800 | 130.6 | 0.730 | 0.60 D | 8.9 | 60.5 | 2.83 | 36.2 | 0.00 | 0.00 | | 403 | | |
| 441 | 6.96 | 6.92 | 34.272 | 26.857 | 125.5 | 0.783 | 0.47 | 6.9 | 65.9 | 2.96 | 37.2 | 0.00 | 0.00 | | 444 | 202 | |
| 500 ISL | 6.49 D | 6.44 | 34.292 D | 26.936 | 118.5 | 0.855 | 0.36 D | 5.2 | 72.8 | 2.98 | 38.5 | 0.00 | 0.00 | | 503 | | |
| 516 | 6.39 | 6.34 | 34.298 | 26.954 | 116.9 | 0.873 | 0.31 | 4.5 | 74.7 | 2.98 | 38.8 | 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; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAE0 | 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 | 14.79 | 14.79 | 33.302 | 24.709 | 322.5 | 0.000 | 6.36 | 110.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.88 | 0.27 | 0 | | |
| 2 | | 14.79 | 14.79 | 33.302 | 24.709 | 322.5 | 0.006 | 6.36 | 110.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.88 | 0.27 | 2 | 217 | |
| 10 | | 14.44 | 14.44 | 33.310 | 24.790 | 315.0 | 0.032 | 6.40 | 110.1 | 2.4 | 0.29 | 0.0 | 0.00 | 0.59 | 0.35 | 10 | 215 | |
| 10 | | 14.45 | 14.45 | 33.306 | 24.785 | 315.5 | 0.032 | | | | | | | | | 10 | 216 | |
| 19 | | 14.00 | 14.00 | 33.306 | 24.879 | 306.8 | 0.060 | 6.10 | 104.0 | 2.0 | 0.36 | 0.2 | 0.02 | 0.08 | 2.71 | 0.87 | 19 | 214 |
| 20 | ISL | 13.98 | 13.98 | 33.315 | D 24.891 | 305.8 | 0.063 | 5.93 | D 101.1 | 2.1 | 0.37 | 0.3 | 0.03 | 0.11 | 2.60 | 0.84 | 20 | |
| 30 | | 13.73 | 13.73 | 33.336 | 24.959 | 299.6 | 0.093 | 5.64 | 95.6 | 4.0 | 0.56 | 3.2 | 0.15 | 0.35 | 0.71 | 0.39 | 30 | 213 |
| 40 | | 12.41 | 12.40 | 33.338 | 25.222 | 274.7 | 0.122 | 4.78 | 78.8 | 8.9 | 1.03 | 10.6 | 0.18 | 0.00 | 0.25 | 0.27 | 40 | 212 |
| 49 | | 11.76 | 11.75 | 33.385 | 25.381 | 259.7 | 0.146 | 4.46 | 72.6 | 11.7 | 1.19 | 13.6 | 0.11 | 0.00 | 0.17 | 0.20 | 49 | 211 |
| 50 | ISL | 11.69 | D 11.68 | 33.375 | D 25.387 | 259.2 | 0.149 | 4.44 | D 72.1 | 11.9 | 1.21 | 13.9 | 0.10 | 0.00 | 0.17 | 0.20 | 50 | |
| 60 | | 11.13 | 11.12 | 33.399 | 25.507 | 247.9 | 0.174 | 4.19 | 67.3 | 14.3 | 1.36 | 16.4 | 0.03 | 0.00 | 0.14 | 0.18 | 60 | 210 |
| 71 | | 10.55 | 10.54 | 33.485 | 25.677 | 232.0 | 0.200 | 3.86 | 61.2 | 17.8 | 1.53 | 19.0 | 0.01 | 0.00 | 0.07 | 0.15 | 71 | 209 |
| 75 | ISL | 10.40 | D 10.39 | 33.527 | D 25.736 | 226.5 | 0.210 | 3.73 | D 59.0 | 18.8 | 1.57 | 19.7 | 0.01 | 0.00 | 0.05 | 0.13 | 75 | |
| 85 | | 10.23 | 10.22 | 33.588 | 25.813 | 219.4 | 0.232 | 3.48 | 54.8 | 21.0 | 1.67 | 21.0 | 0.01 | 0.00 | 0.03 | 0.10 | 85 | 208 |
| 100 | ISL | 9.99 | D 9.98 | 33.711 | D 25.949 | 206.7 | 0.264 | 3.15 | D 49.4 | 23.8 | 1.82 | 22.6 | 0.00 | 0.00 | 0.01 | 0.09 | 101 | |
| 101 | | 9.99 | 9.98 | 33.705 | 25.945 | 207.1 | 0.266 | 3.15 | 49.4 | 24.0 | 1.83 | 22.7 | 0.00 | 0.00 | 0.01 | 0.09 | 102 | 207 |
| 120 | | 9.70 | 9.69 | 33.835 | 26.095 | 193.2 | 0.304 | 2.81 | 43.8 | 27.1 | 1.98 | 24.9 | 0.00 | 0.00 | 0.01 | 0.06 | 121 | 206 |
| 125 | ISL | 9.67 | D 9.66 | 33.905 | D 26.155 | 187.7 | 0.313 | 2.64 | D 41.2 | 28.0 | 2.02 | 25.3 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | |
| 140 | | 9.71 | 9.69 | 34.001 | 26.224 | 181.5 | 0.341 | 2.28 | 35.6 | 30.5 | 2.13 | 26.2 | 0.00 | 0.00 | 0.01 | 0.06 | 141 | 205 |
| 150 | ISL | 9.43 | D 9.41 | 33.990 | D 26.261 | 178.1 | 0.359 | 2.38 | D 36.9 | 31.7 | 2.17 | 26.9 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | |
| 171 | | 9.06 | 9.04 | 34.058 | 26.374 | 167.6 | 0.395 | 2.16 | 33.3 | 34.5 | 2.24 | 28.3 | 0.00 | 0.00 | 0.00 | 0.04 | 172 | 204 |
| 200 | ISL | 8.67 | D 8.65 | 34.168 | D 26.522 | 154.1 | 0.442 | 1.52 | D 23.2 | 41.2 | 2.43 | 30.6 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | |
| 201 | | 8.67 | 8.65 | 34.167 | 26.521 | 154.2 | 0.444 | 1.51 | 23.1 | 41.4 | 2.44 | 30.7 | 0.00 | 0.00 | 0.00 | 0.05 | 202 | 203 |
| 231 | | 8.41 | 8.39 | 34.184 | 26.575 | 149.5 | 0.489 | 1.37 | 20.8 | 44.4 | 2.51 | 31.6 | 0.00 | 0.00 | | | 232 | 202 |
| 250 | ISL | 8.33 | D 8.30 | 34.217 | D 26.614 | 146.2 | 0.517 | 1.07 | D 16.2 | 46.8 | 2.58 | 32.5 | 0.00 | 0.00 | | | 251 | |
| 252 | | 8.33 | 8.30 | 34.217 | 26.614 | 146.3 | 0.520 | 1.06 | 16.1 | 47.1 | 2.59 | 32.6 | 0.00 | 0.00 | | | 254 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAE0 | 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 | 14.80 | 14.80 | 33.318 | 24.719 | 321.5 | 0.000 | 6.04 | 104.7 | 1.1 | 0.29 | 0.0 | 0.00 | 0.70 | 0.20 | 0 | | |
| 2 | | 14.80 | 14.80 | 33.318 | 24.719 | 321.6 | 0.006 | 6.04 | 104.7 | 1.1 | 0.29 | 0.0 | 0.00 | 0.70 | 0.20 | 2 | 220 | |
| 10 | | 14.67 | 14.67 | 33.323 | 24.751 | 318.7 | 0.032 | 6.10 | 105.4 | 1.0 | 0.28 | 0.0 | 0.00 | 0.65 | 0.23 | 10 | 219 | |
| 19 | | 14.25 | 14.25 | 33.329 | 24.845 | 310.1 | 0.060 | 6.08 | 104.2 | 1.3 | 0.30 | 0.3 | 0.01 | 0.07 | 1.03 | 0.40 | 19 | 218 |
| 20 | ISL | 14.20 | D 14.20 | 33.338 | D 24.863 | 308.4 | 0.063 | 6.07 | D 103.9 | 1.4 | 0.31 | 0.4 | 0.01 | 0.08 | 1.00 | 0.39 | 20 | |
| 30 | | 14.06 | 14.06 | 33.346 | 24.898 | 305.3 | 0.094 | 5.96 | 101.7 | 2.8 | 0.41 | 1.3 | 0.06 | 0.29 | 0.65 | 0.29 | 30 | 217 |
| 39 | | 13.79 | 13.78 | 33.346 | 24.954 | 300.2 | 0.121 | 5.79 | 98.3 | 3.1 | 0.48 | 2.1 | 0.09 | 0.60 | 0.96 | 0.48 | 39 | 216 |
| 50 | | 12.07 | 12.06 | 33.254 | 25.222 | 274.9 | 0.153 | 4.81 | 78.7 | 9.2 | 1.01 | 10.7 | 0.09 | 0.01 | 0.21 | 0.21 | 50 | 215 |
| 60 | | 12.05 | 12.04 | 33.334 | 25.288 | 268.9 | 0.180 | 4.68 | 76.6 | 10.2 | 1.07 | 11.8 | 0.14 | 0.02 | 0.23 | 0.21 | 60 | 214 |
| 69 | | 10.76 | 10.75 | 33.348 | 25.534 | 245.6 | 0.203 | 4.28 | 68.1 | 14.9 | 1.34 | 16.4 | 0.02 | 0.00 | 0.07 | 0.12 | 69 | 213 |
| 75 | ISL | 10.66 | D 10.65 | 33.403 | D 25.594 | 240.0 | 0.218 | 4.16 | D 66.1 | 17.2 | 1.46 | 18.4 | 0.01 | 0.00 | 0.05 | 0.10 | 75 | |
| 85 | | 10.42 | 10.41 | 33.534 | 25.738 | 226.5 | 0.241 | 3.56 | 56.3 | 19.9 | 1.60 | 20.4 | 0.00 | 0.00 | 0.03 | 0.08 | 85 | 212 |
| 100 | ISL | 10.19 | D 10.18 | 33.630 | D 25.852 | 215.9 | 0.274 | 3.31 | D 52.1 | 22.0 | 1.70 | 21.7 | 0.01 | 0.00 | 0.02 | 0.08 | 100 | |
| 101 | | 10.19 | 10.18 | 33.628 | 25.851 | 216.1 | 0.277 | 3.30 | 52.0 | 22.1 | 1.70 | 21.8 | 0.01 | 0.00 | 0.02 | 0.08 | 101 | 211 |
| 120 | | 9.85 | 9.84 | 33.830 | 26.066 | 196.0 | 0.316 | 2.82 | 44.1 | 26.7 | 1.88 | 24.1 | 0.00 | 0.00 | 0.01 | 0.06 | 121 | 210 |
| 125 | ISL | 9.78 | D 9.77 | 33.886 | D 26.122 | 190.8 | 0.325 | 2.76 | D 43.1 | 27.5 | 1.92 | 24.5 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | |
| 140 | | 9.63 | 9.61 | 33.925 | 26.177 | 185.8 | 0.354 | 2.52 | 39.3 | 29.3 | 2.00 | 25.7 | 0.00 | 0.00 | 0.01 | 0.06 | 141 | 209 |
| 150 | ISL | 9.58 | D 9.56 | 33.992 | D 26.238 | 180.3 | 0.372 | 2.33 | D 36.3 | 30.6 | 2.04 | 26.4 | 0.00 | 0.00 | 0.01 | 0.05 | 151 | |
| 170 | | 9.21 | 9.19 | 34.041 | 26.337 | 171.2 | 0.407 | 2.17 | 33.5 | 33.5 | 2.11 | 27.8 | 0.00 | 0.00 | 0.01 | 0.04 | 171 | 208 |
| 200 | | 8.70 | 8.68 | 34.121 | 26.481 | 158.0 | 0.456 | 1.85 | 28.3 | 39.1 | 2.26 | 29.7 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | 207 |
| 230 | | 8.38 | 8.36 | 34.145 | 26.549 | 152.0 | 0.503 | 1.66 | 25.2 | 43.2 | 2.37 | 31.0 | 0.00 | 0.00 | | | 231 | 206 |
| 250 | ISL | 8.37 | D 8.34 | 34.195 | D 26.590 | 148.5 | 0.533 | 1.30 | D 19.7 | 46.4 | 2.48 | 32.1 | 0.00 | 0.00 | | | 251 | |
| 271 | | 8.03 | 8.00 | 34.201 | 26.646 | 143.3 | 0.564 | 1.11 | 16.7 | 49.8 | 2.60 | 33.3 | 0.00 | 0.00 | | | 273 | 205 |
| 300 | ISL | 7.78 | D 7.75 | 34.229 | D 26.705 | 138.1 | 0.604 | 0.95 | D 14.2 | 53.9 | 2.70 | 34.5 | 0.00 | 0.00 | | | 302 | |
| 320 | | 7.58 | 7.55 | 34.233 | 26.738 | 135.3 | 0.632 | 0.83 | 12.4 | 56.5 | 2.75 | 35.1 | 0.00 | 0.00 | | | 322 | 204 |
| 381 | | 7.12 | 7.08 | 34.253 | 26.819 | 128.3 | 0.712 | 0.62 | 9.1 | 62.8 | 2.89 | 36.7 | 0.00 | 0.00 | | | 383 | 203 |
| 400 | ISL | 7.10 | D 7.06 | 34.256 | D 26.824 | 128.1 | 0.737 | 0.63 | D 9.3 | 64.4 | 2.91 | 37.1 | 0.00 | 0.00 | | | 403 | |
| 441 | | 6.72 | 6.68 | 34.261 | 26.880 | 123.1 | 0.788 | 0.52 | 7.6 | 68.1 | 2.96 | 37.9 | 0.00 | 0.00</td | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 13.57 | 13.57 | 33.387 | 25.030 | 291.9 | 0.000 | 6.17 | 104.3 | | | | | | 1.22 | 0.27 | 0 | |
| 2 | | 13.57 | 13.57 | 33.387 | 25.030 | 292.0 | 0.006 | 6.17 | 104.3 | | | | | | 1.22 | 0.27 | 2 | 221 |
| 10 | | 12.78 | 12.78 | 33.403 | 25.200 | 276.0 | 0.029 | 6.21 | 103.3 | 4.4 | 0.64 | 5.2 | 0.20 | 0.08 | 2.19 | 0.57 | 10 | 219 |
| 10 | | 12.80 | 12.80 | 33.398 | 25.192 | 276.7 | 0.029 | | | | | | | | | | 10 | 220 |
| 19 | | 12.22 | 12.22 | 33.396 | 25.303 | 266.4 | 0.053 | 5.66 | 93.0 | 8.1 | 0.91 | 8.4 | 0.40 | 0.15 | 1.25 | 0.40 | 19 | 218 |
| 20 | ISL | 12.10 | 12.10 | 33.403 | D 25.331 | 263.8 | 0.056 | 5.58 | D 91.5 | 8.5 | 0.94 | 8.9 | 0.40 | 0.14 | 1.16 | 0.39 | 20 | |
| 30 | | 11.49 | 11.49 | 33.440 | 25.474 | 250.5 | 0.081 | 4.73 | 76.6 | 12.6 | 1.23 | 13.6 | 0.29 | 0.00 | 0.51 | 0.33 | 30 | 217 |
| 40 | | 11.13 | 11.13 | 33.480 | 25.570 | 241.5 | 0.106 | 4.31 | 69.2 | 15.2 | 1.39 | 16.0 | 0.19 | 0.00 | 0.30 | 0.33 | 40 | 216 |
| 50 | | 10.76 | 10.75 | 33.557 | 25.696 | 229.7 | 0.130 | 3.76 | 59.9 | 18.8 | 1.61 | 19.2 | 0.06 | 0.00 | 0.18 | 0.20 | 50 | 215 |
| 60 | | 10.43 | 10.42 | 33.611 | 25.796 | 220.5 | 0.152 | 3.45 | 54.6 | 21.2 | 1.72 | 21.0 | 0.03 | 0.00 | 0.09 | 0.18 | 60 | 214 |
| 70 | | 10.03 | 10.02 | 33.704 | 25.937 | 207.2 | 0.173 | 3.06 | 48.1 | 24.6 | 1.88 | 23.4 | 0.01 | 0.00 | 0.05 | 0.58 | 70 | 213 |
| 75 | ISL | 9.99 | D 9.98 | 33.708 | D 25.947 | 206.4 | 0.184 | 3.08 | D 48.3 | 25.4 | 1.92 | 24.0 | 0.01 | 0.00 | 0.04 | 0.49 | 75 | |
| 85 | | 9.89 | 9.88 | 33.766 | 26.009 | 200.7 | 0.204 | 2.80 | 43.9 | 26.3 | 1.97 | 24.6 | 0.01 | 0.00 | 0.03 | 0.16 | 85 | 212 |
| 100 | ISL | 9.70 | D 9.69 | 33.853 | D 26.109 | 191.5 | 0.234 | 2.57 | D 40.1 | 28.4 | 2.05 | 25.7 | 0.01 | 0.00 | 0.01 | 0.12 | 101 | |
| 101 | | 9.71 | 9.70 | 33.851 | 26.106 | 191.8 | 0.235 | 2.54 | 39.6 | 28.6 | 2.06 | 25.8 | 0.01 | 0.00 | 0.01 | 0.12 | 102 | 211 |
| 120 | | 9.42 | 9.41 | 33.974 | 26.250 | 178.5 | 0.271 | 2.23 | 34.6 | 31.8 | 2.18 | 27.4 | 0.00 | 0.00 | 0.01 | 0.10 | 121 | 210 |
| 125 | ISL | 9.34 | D 9.33 | 34.017 | D 26.296 | 174.1 | 0.279 | 2.19 | D 33.9 | 32.6 | 2.21 | 27.8 | 0.00 | 0.00 | 0.01 | 0.09 | 126 | |
| 140 | | 9.22 | 9.20 | 34.054 | 26.345 | 169.8 | 0.305 | 1.91 | 29.5 | 34.9 | 2.29 | 28.7 | 0.00 | 0.00 | 0.01 | 0.08 | 141 | 209 |
| 150 | ISL | 9.04 | D 9.02 | 34.082 | D 26.396 | 165.2 | 0.322 | 1.91 | D 29.4 | 36.3 | 2.34 | 29.3 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | |
| 171 | | 8.86 | 8.84 | 34.132 | 26.464 | 159.1 | 0.356 | 1.62 | 24.8 | 39.1 | 2.43 | 30.4 | 0.00 | 0.00 | 0.01 | 0.06 | 172 | 208 |
| 200 | | 8.51 | 8.49 | 34.164 | 26.544 | 151.9 | 0.401 | 1.43 | 21.8 | 43.0 | 2.54 | 31.6 | 0.00 | 0.00 | 0.01 | 0.06 | 201 | 207 |
| 230 | | 8.27 | 8.25 | 34.184 | 26.596 | 147.4 | 0.446 | 1.26 | 19.1 | 46.1 | 2.60 | 32.5 | 0.00 | 0.00 | | 231 | 206 | |
| 250 | ISL | 8.16 | D 8.13 | 34.207 | D 26.631 | 144.4 | 0.475 | 1.11 | D 16.8 | 48.2 | 2.67 | 33.2 | 0.00 | 0.00 | | 252 | | |
| 270 | | 8.05 | 8.02 | 34.226 | 26.663 | 141.8 | 0.504 | 0.93 | 14.0 | 50.3 | 2.73 | 33.8 | 0.00 | 0.00 | | 272 | 205 | |
| 300 | ISL | 7.80 | D 7.77 | 34.239 | D 26.710 | 137.7 | 0.546 | 0.83 | D 12.4 | 53.4 | 2.78 | 34.6 | 0.00 | 0.00 | | 302 | | |
| 320 | | 7.68 | 7.65 | 34.244 | 26.732 | 135.9 | 0.573 | 0.74 | 11.1 | 55.5 | 2.81 | 35.1 | 0.00 | 0.00 | | 322 | 204 | |
| 381 | | 7.10 | 7.06 | 34.265 | 26.831 | 127.1 | 0.653 | 0.54 | 8.0 | 63.2 | 2.98 | 37.0 | 0.00 | 0.00 | | 384 | 203 | |
| 400 | ISL | 7.00 | D 6.96 | 34.266 | D 26.846 | 125.9 | 0.677 | 0.52 | D 7.6 | 65.1 | 3.00 | 37.4 | 0.00 | 0.01 | | 403 | | |
| 440 | | 6.75 | 6.71 | 34.277 | 26.889 | 122.3 | 0.727 | 0.43 | 6.3 | 68.8 | 3.02 | 38.0 | 0.00 | 0.03 | | 443 | 202 | |
| 500 | ISL | 6.28 | D 6.24 | 34.303 | D 26.972 | 114.8 | 0.798 | 0.33 | D 4.8 | 75.6 | 3.11 | 39.3 | 0.00 | 0.02 | | 503 | | |
| 515 | | 6.23 | 6.18 | 34.304 | 26.979 | 114.3 | 0.815 | 0.30 | 4.3 | 77.3 | 3.13 | 39.6 | 0.00 | 0.02 | | 519 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | uM/l | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 | ISL | 13.19 | 13.19 | 33.324 | 25.057 | 289.3 | 0.000 | 6.05 | 101.4 | 6.1 | 0.66 | 5.7 | 0.23 | 0.07 | 0.85 | 0.25 | 0 | |
| 2 | | 13.19 | 13.19 | 33.324 | 25.058 | 289.4 | 0.006 | 6.05 | 101.4 | 6.1 | 0.66 | 5.7 | 0.23 | 0.07 | 0.85 | 0.25 | 2 | 220 |
| 10 | | 12.89 | 12.89 | 33.324 | 25.117 | 283.9 | 0.029 | 6.03 | 100.5 | 6.1 | 0.67 | 5.9 | 0.25 | 0.10 | 0.93 | 0.34 | 10 | 219 |
| 20 | | 12.79 | 12.79 | 33.315 | 25.130 | 282.9 | 0.057 | 6.03 | 100.3 | 6.2 | 0.68 | 5.9 | 0.26 | 0.09 | 1.09 | 0.36 | 20 | 218 |
| 30 | | 12.56 | 12.56 | 33.302 | 25.165 | 279.8 | 0.085 | 5.91 | 97.8 | 6.7 | 0.71 | 6.3 | 0.29 | 0.11 | 1.01 | 0.36 | 30 | 217 |
| 40 | | 11.22 | 11.22 | 33.312 | 25.423 | 255.5 | 0.112 | 4.90 | 78.8 | 11.7 | 1.12 | 12.9 | 0.16 | 0.00 | 0.29 | 0.26 | 40 | 216 |
| 50 | | 10.64 | 10.63 | 33.336 | 25.545 | 244.1 | 0.137 | 4.58 | 72.7 | 14.2 | 1.26 | 15.2 | 0.03 | 0.00 | 0.13 | 0.18 | 50 | 215 |
| 60 | | 9.95 | 9.94 | 33.452 | 25.753 | 224.4 | 0.160 | 4.00 | 62.6 | 19.0 | 1.53 | 19.4 | 0.01 | 0.00 | 0.06 | 0.12 | 60 | 214 |
| 69 | | 9.74 | 9.73 | 33.618 | 25.918 | 208.9 | 0.180 | 3.40 | 53.0 | 23.2 | 1.75 | 22.6 | 0.01 | 0.00 | 0.04 | 0.12 | 69 | 213 |
| 75 | ISL | 9.71 | D 9.70 | 33.658 | D 25.954 | 205.6 | 0.192 | 3.32 | D 51.8 | 24.7 | 1.78 | 23.7 | 0.01 | 0.00 | 0.03 | 0.11 | 75 | |
| 86 | | 9.50 | 9.49 | 33.766 | 26.073 | 194.5 | 0.214 | 3.04 | 47.2 | 26.3 | 1.84 | 24.6 | 0.00 | 0.00 | 0.01 | 0.10 | 86 | 212 |
| 100 | | 9.37 | 9.36 | 33.822 | 26.139 | 188.6 | 0.241 | 2.87 | 44.4 | 27.8 | 1.88 | 25.3 | 0.00 | 0.00 | 0.01 | 0.13 | 101 | 211 |
| 120 | | 9.09 | 9.08 | 33.964 | 26.295 | 174.1 | 0.277 | 2.38 | 36.7 | 32.1 | 2.04 | 27.5 | 0.00 | 0.00 | 0.01 | 0.09 | 121 | 210 |
| 125 | ISL | 9.05 | D 9.04 | 33.989 | D 26.321 | 171.7 | 0.286 | 2.32 | D 35.7 | 33.0 | 2.08 | 27.8 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | |
| 140 | | 8.93 | 8.91 | 34.049 | 26.387 | 165.7 | 0.311 | 2.05 | 31.5 | 35.4 | 2.17 | 28.6 | 0.00 | 0.00 | 0.00 | 0.05 | 141 | 209 |
| 150 | ISL | 8.83 | D 8.81 | 34.075 | D 26.423 | 162.5 | 0.328 | 2.00 | D 30.6 | 36.4 | 2.19 | 28.9 | 0.00 | 0.00 | 0.00 | 0.05 | 151 | |
| 170 | | 8.73 | 8.71 | 34.101 | 26.460 | 159.4 | 0.360 | 1.80 | 27.5 | 38.4 | 2.22 | 29.6 | 0.00 | 0.00 | 0.00 | 0.05 | 171 | 208 |
| 199 | | 8.46 | 8.44 | 34.163 | 26.551 | 151.3 | 0.405 | 1.41 | 21.4 | 43.2 | 2.40 | 31.2 | 0.00 | 0.00 | 0.00 | 0.05 | 200 | 207 |
| 200 | ISL | 8.42 | D 8.40 | 34.173 | D 26.564 | 149.9 | 0.407 | 1.37 | D 20.8 | 43.3 | 2.40 | 31.2 | 0.00 | 0.00 | | 201 | | |
| 230 | | 8.20 | 8.18 | 34.185 | 26.608 | 146.3 | 0.451 | 1.19 | 18.0 | 46.7 | 2.49 | 32.4 | 0.00 | 0.00 | | 231 | 206 | |
| 250 | ISL | 8.01 | D 7.98 | 34.192 | D 26.642 | 143.4 | 0.480 | 1.12 | D 16.9 | 48.7 | 2.55 | 33.0 | 0.00 | 0.00 | | 252 | | |
| 270 | | 7.91 | 7.88 | 34.203 | 26.666 | 141.4 | 0.508 | 1.00 | 15.0 | 50.8 | 2.60 | 33.6 | 0.00 | 0.00 | | 272 | 205 | |
| 300 | ISL | 7.54 | D 7.51 | 34.228 | D 26.739 | 134.8 | 0.550 | 0.81 | D 12.1 | 54.9 | 2.67 | 34.6 | 0.00 | 0.00 | | 302 | | |
| 319 | | 7.45 | 7.42 | 34.228 | 26.752 | 133.8 | 0.575 | 0.76 | 11.3 | 57.4 | 2.71 | 35.2 | 0.00 | 0.00 | | 321 | 204 | |
| 380 | | 7.14 | 7.10 | 34.259 | 26.821 | 128.1 | 0.655 | 0.56 | 8.3 | 62.1 | 2.82 | 36.4 | 0.00 | 0.00 | | 382 | 203 | |
| | | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | ug/l | ug/l | db | |
| 0 ISL | 13.35 | 13.35 | 33.128 | 24.874 | 306.8 | 0.000 | 5.96 | 100.1 | 4.0 | 0.49 | 2.8 | 0.11 | 0.05 | 0.60 | 0.14 | 0 | |
| 3 A | 13.35 | 13.35 | 33.128 | 24.874 | 306.8 | 0.009 | 5.96 | 100.1 | 4.0 | 0.49 | 2.8 | 0.11 | 0.05 | 0.60 | 0.14 | 3 | 222 |
| 10 A | 13.32 | 13.32 | 33.130 | 24.882 | 306.3 | 0.031 | 5.94 | 99.7 | 4.1 | 0.47 | 2.8 | 0.11 | 0.05 | 0.61 | 0.17 | 10 | 221 |
| 13 A | 13.28 | 13.28 | 33.134 | 24.893 | 305.3 | 0.040 | 5.89 | 98.8 | 4.2 | 0.50 | 3.0 | 0.11 | 0.06 | 0.65 | 0.18 | 13 | 220 |
| 17 A | 13.14 | 13.14 | 33.163 | 24.943 | 300.6 | 0.052 | 5.93 | 99.2 | 4.6 | 0.55 | 3.7 | 0.13 | 0.13 | 0.87 | 0.22 | 17 | 219 |
| 20 ISL | 13.02 D | 13.02 | 33.192 D | 24.990 | 296.3 | 0.061 | 5.96 D | 99.5 | 5.0 | 0.59 | 4.3 | 0.15 | 0.17 | 1.09 | 0.26 | 20 | |
| 25 A | 12.84 | 12.84 | 33.228 | 25.053 | 290.4 | 0.076 | 5.93 | 98.6 | 5.6 | 0.64 | 5.3 | 0.17 | 0.22 | 1.40 | 0.33 | 25 | 218 |
| 30 ISL | 12.68 D | 12.68 | 33.263 D | 25.112 | 284.9 | 0.090 | 5.91 D | 98.0 | 6.0 | 0.68 | 5.9 | 0.18 | 0.25 | 1.43 | 0.33 | 30 | |
| 34 | 12.67 | 12.67 | 33.264 | 25.114 | 284.8 | 0.101 | 5.89 | 97.6 | 6.3 | 0.70 | 6.2 | 0.19 | 0.27 | 1.46 | 0.33 | 34 | 217 |
| 43 | 12.61 | 12.60 | 33.263 | 25.125 | 284.0 | 0.127 | 5.88 | 97.4 | 6.5 | 0.72 | 6.5 | 0.18 | 0.28 | 1.25 | 0.29 | 43 | 216 |
| 50 ISL | 12.34 D | 12.33 | 33.297 D | 25.204 | 276.7 | 0.147 | 5.82 D | 95.8 | 7.3 | 0.78 | 7.4 | 0.20 | 0.31 | 1.40 | 0.43 | 50 | |
| 51 A | 12.32 | 12.31 | 33.296 | 25.207 | 276.4 | 0.149 | 5.82 | 95.8 | 7.5 | 0.79 | 7.6 | 0.20 | 0.32 | 1.43 | 0.45 | 51 | 215 |
| 62 | 11.94 | 11.93 | 33.405 | 25.364 | 261.7 | 0.179 | 5.63 | 92.0 | 9.8 | 0.97 | 9.9 | 0.31 | 0.43 | 1.46 | 0.46 | 62 | 214 |
| 70 | 11.87 | 11.86 | 33.421 | 25.389 | 259.5 | 0.200 | 5.54 | 90.4 | 10.1 | 0.99 | 10.3 | 0.31 | 0.47 | 1.23 | 0.40 | 70 | 213 |
| 75 ISL | 11.87 D | 11.86 | 33.439 D | 25.404 | 258.3 | 0.213 | 5.54 D | 90.4 | 10.9 | 1.05 | 11.4 | 0.28 | 0.34 | 0.98 | 0.37 | 75 | |
| 86 | 10.77 | 10.76 | 33.333 | 25.521 | 247.2 | 0.241 | 4.82 | 76.7 | 13.6 | 1.25 | 14.6 | 0.18 | 0.02 | 0.44 | 0.28 | 86 | 212 |
| 100 | 9.94 | 9.93 | 33.396 | 25.712 | 229.2 | 0.274 | 4.30 | 67.3 | 18.1 | 1.50 | 18.7 | 0.05 | 0.00 | 0.13 | 0.13 | 100 | 211 |
| 120 | 9.40 | 9.39 | 33.651 | 26.000 | 202.1 | 0.317 | 3.48 | 53.9 | 24.5 | 1.79 | 23.4 | 0.00 | 0.00 | 0.01 | 0.06 | 121 | 210 |
| 125 ISL | 9.41 D | 9.40 | 33.688 D | 26.028 | 199.6 | 0.327 | 3.47 D | 53.7 | 25.9 | 1.85 | 24.2 | 0.00 | 0.00 | 0.01 | 0.06 | 126 | |
| 141 | 9.39 | 9.37 | 33.865 | 26.170 | 186.5 | 0.358 | 2.60 | 40.3 | 29.7 | 2.01 | 26.3 | 0.00 | 0.00 | 0.00 | 0.08 | 142 | 209 |
| 150 ISL | 9.24 D | 9.22 | 33.947 D | 26.258 | 178.3 | 0.374 | 2.49 D | 38.5 | 31.2 | 2.06 | 27.0 | 0.00 | 0.00 | 0.00 | 0.08 | 151 | |
| 171 | 9.15 | 9.13 | 34.021 | 26.331 | 171.8 | 0.411 | 2.16 | 33.3 | 33.7 | 2.13 | 28.0 | 0.00 | 0.00 | 0.00 | 0.07 | 172 | 208 |
| 200 | 8.83 | 8.81 | 34.059 | 26.412 | 164.6 | 0.460 | 2.03 | 31.1 | 36.4 | 2.19 | 29.1 | 0.00 | 0.00 | 0.00 | 0.06 | 201 | 207 |
| 232 | 8.58 | 8.56 | 34.148 | 26.521 | 154.8 | 0.511 | 1.55 | 23.6 | 41.7 | 2.35 | 30.7 | 0.00 | 0.00 | | 233 | 206 | |
| 250 ISL | 8.26 D | 8.23 | 34.157 D | 26.577 | 149.6 | 0.538 | 1.49 D | 22.5 | 44.2 | 2.44 | 31.6 | 0.00 | 0.00 | | 251 | | |
| 273 | 8.19 | 8.16 | 34.191 | 26.615 | 146.5 | 0.572 | 1.19 | 18.0 | 47.2 | 2.55 | 32.6 | 0.00 | 0.00 | | 275 | 205 | |
| 300 ISL | 7.87 D | 7.84 | 34.218 D | 26.684 | 140.2 | 0.611 | 0.98 D | 14.7 | 50.7 | 2.63 | 33.6 | 0.00 | 0.00 | | 302 | | |
| 321 | 7.77 | 7.74 | 34.227 | 26.706 | 138.5 | 0.640 | 0.88 | 13.2 | 53.4 | 2.68 | 34.3 | 0.00 | 0.00 | | 323 | 204 | |
| 381 | 7.25 | 7.21 | 34.255 | 26.802 | 129.9 | 0.721 | 0.60 | 8.9 | 60.9 | 2.86 | 36.3 | 0.00 | 0.00 | | 383 | 203 | |
| 400 ISL | 7.04 D | 7.00 | 34.265 D | 26.840 | 126.6 | 0.745 | 0.55 D | 8.1 | 63.7 | 2.90 | 36.9 | 0.00 | 0.00 | | 403 | | |
| 441 | 6.66 | 6.62 | 34.279 | 26.903 | 120.9 | 0.796 | 0.42 | 6.1 | 69.8 | 2.99 | 38.2 | 0.00 | 0.00 | | 444 | 202 | |
| 500 ISL | 6.19 D | 6.15 | 34.308 D | 26.987 | 113.3 | 0.865 | 0.34 D | 4.9 | 77.2 | 3.10 | 39.6 | 0.00 | 0.00 | | 503 | | |
| 515 | 6.11 | 6.06 | 34.310 | 26.999 | 112.3 | 0.882 | 0.29 | 4.2 | 79.1 | 3.13 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 14.61 | 14.61 | 32.972 | 24.493 | 343.0 | 0.000 | 5.92 | 102.0 | 2.5 | 0.30 | 0.1 | 0.00 | 0.00 | 0.51 | 0.10 | 0 | |
| 3 | 14.61 | 14.61 | 32.972 | 24.493 | 343.1 | 0.010 | 5.92 | 102.0 | 2.5 | 0.30 | 0.1 | 0.00 | 0.00 | 0.51 | 0.10 | 3 | 220 |
| 9 | 14.58 | 14.58 | 32.973 | 24.501 | 342.6 | 0.031 | 5.91 | 101.7 | 2.5 | 0.29 | 0.2 | 0.01 | 0.00 | 0.60 | 0.14 | 9 | 219 |
| 10 ISL | 14.58 D | 14.58 | 32.976 D | 24.503 | 342.4 | 0.034 | 5.93 D | 102.1 | 2.5 | 0.29 | 0.2 | 0.01 | 0.00 | 0.60 | 0.14 | 10 | |
| 20 | 14.39 | 14.39 | 32.981 | 24.547 | 338.5 | 0.068 | 5.95 | 102.0 | 2.8 | 0.31 | 0.3 | 0.02 | 0.00 | 0.61 | 0.14 | 20 | 218 |
| 30 | 13.65 | 13.65 | 32.990 | 24.707 | 323.5 | 0.101 | 6.00 | 101.3 | 3.3 | 0.39 | 1.1 | 0.09 | 0.02 | 0.64 | 0.25 | 30 | 217 |
| 39 | 13.50 | 13.49 | 33.000 | 24.746 | 320.0 | 0.130 | 5.97 | 100.5 | 3.4 | 0.40 | 1.4 | 0.12 | 0.07 | 0.59 | 0.25 | 39 | 216 |
| 50 ISL | 13.29 D | 13.28 | 33.036 D | 24.816 | 313.6 | 0.165 | 5.87 D | 98.4 | 3.6 | 0.42 | 1.7 | 0.14 | 0.05 | 0.36 | 0.27 | 50 | |
| 51 | 13.28 | 13.27 | 33.033 | 24.816 | 313.7 | 0.168 | 5.84 | 97.9 | 3.6 | 0.42 | 1.7 | 0.14 | 0.05 | 0.34 | 0.27 | 51 | 215 |
| 60 | 12.87 | 12.86 | 33.038 | 24.901 | 305.8 | 0.196 | 5.74 | 95.4 | 3.7 | 0.45 | 2.0 | 0.09 | 0.00 | 0.28 | 0.25 | 60 | 214 |
| 70 | 12.53 | 12.52 | 33.071 | 24.993 | 297.3 | 0.226 | 5.64 | 93.1 | 4.3 | 0.49 | 2.9 | 0.03 | 0.00 | 0.17 | 0.21 | 70 | 213 |
| 75 ISL | 12.21 D | 12.20 | 33.074 D | 25.056 | 291.3 | 0.241 | 5.55 D | 91.0 | 4.5 | 0.51 | 3.3 | 0.03 | 0.00 | 0.15 | 0.19 | 75 | |
| 85 | 12.00 | 11.99 | 33.081 | 25.101 | 287.2 | 0.270 | 5.45 | 89.0 | 5.4 | 0.60 | 4.7 | 0.02 | 0.00 | 0.13 | 0.15 | 85 | 212 |
| 100 ISL | 10.50 D | 10.49 | 33.154 D | 25.428 | 256.2 | 0.311 | 5.07 D | 80.2 | 9.4 | 0.93 | 10.0 | 0.00 | 0.00 | 0.05 | 0.06 | 100 | |
| 101 | 10.71 | 10.70 | 33.123 | 25.368 | 262.0 | 0.313 | 5.10 | 81.0 | 9.7 | 0.96 | 10.4 | 0.00 | 0.00 | 0.05 | 0.05 | 101 | 211 |
| 121 | 9.80 | 9.79 | 33.130 | 25.668 | 233.7 | 0.363 | 4.49 | 70.0 | 16.2 | 1.37 | 17.2 | 0.00 | 0.00 | 0.02 | 0.05 | 122 | 210 |
| 125 ISL | 9.64 D | 9.63 | 33.364 D | 25.737 | 227.3 | 0.372 | 4.38 D | 68.0 | 17.1 | 1.43 | 18.0 | 0.00 | 0.00 | 0.02 | 0.05 | 126 | |
| 141 | 9.40 | 9.38 | 33.470 | 25.859 | 215.9 | 0.408 | 4.04 | 62.5 | 20.5 | 1.61 | 20.6 | 0.00 | 0.00 | 0.01 | 0.03 | 142 | 209 |
| 150 ISL | 9.11 D | 9.09 | 33.623 D | 26.025 | 200.3 | 0.426 | 3.70 D | 56.9 | 22.9 | 1.72 | 22.4 | 0.00 | 0.00 | 0.01 | 0.03 | 151 | |
| 169 | 8.90 | 8.88 | 33.761 | 26.167 | 187.2 | 0.463 | 3.24 | 49.6 | 28.1 | 1.91 | 25.7 | 0.00 | 0.00 | 0.00 | 0.03 | 170 | 208 |
| 200 | 8.50 | 8.48 | 33.969 | 26.392 | 166.3 | 0.518 | 2.60 | 39.5 | 34.3 | 2.09 | 28.4 | 0.00 | 0.00 | 0.00 | 0.03 | 201 | 207 |
| 229 | 7.98 | 7.96 | 33.985 | 26.483 | 157.9 | 0.565 | 2.97 | 44.6 | 36.6 | 2.03 | 28.0 | 0.00 | 0.00 | | 230 | 206 | |
| 250 ISL | 7 | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 80.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST | TIME | BOTTOM | WIND | SPEED | WAVES | WEA | BAROMETER | DRY | WET | SECCHI | CLD | AMT | TYPE | |
|-----------|------------|-----------|----------|--------|--------|-------|-------|--------|------|-----------|--------|--------|--------|------|------|------|-----|
| 31 45.1 N | 121 19.1 W | 18/01/11 | 0152 | UTC | 3770 m | 290 | 16 kn | | | 1014.0 mb | 16.7 C | 14.5 C | | | | | |
| 0 ISL | 15.17 | 15.17 | 32.924 | 24.336 | 358.0 | 0.000 | 5.79 | 100.8 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.23 | 0.07 | 0 | |
| 3 | 15.17 | 15.17 | 32.924 | 24.336 | 358.1 | 0.011 | 5.79 | 100.8 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.23 | 0.07 | 3 | 220 |
| 10 | 15.17 | 15.17 | 32.924 | 24.336 | 358.3 | 0.036 | 5.81 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.23 | 0.07 | 10 | 219 |
| 20 ISL | 15.17 D | 15.17 | 32.924 D | 24.336 | 358.6 | 0.072 | 5.82 | D101.4 | 1.8 | 0.27 | 0.0 | 0.00 | 0.00 | 0.26 | 0.06 | 20 | |
| 25 | 15.14 | 15.14 | 32.923 | 24.342 | 358.2 | 0.090 | 5.82 | 101.3 | 1.8 | 0.27 | 0.0 | 0.00 | 0.00 | 0.28 | 0.05 | 25 | 218 |
| 30 ISL | 15.11 D | 15.11 | 32.921 D | 24.348 | 357.8 | 0.107 | 5.83 | D101.4 | 1.8 | 0.27 | 0.0 | 0.00 | 0.00 | 0.28 | 0.06 | 30 | |
| 41 | 15.09 | 15.08 | 32.920 | 24.351 | 357.8 | 0.147 | 5.81 | 101.0 | 1.8 | 0.27 | 0.0 | 0.00 | 0.00 | 0.27 | 0.07 | 41 | 217 |
| 50 | 15.05 | 15.04 | 32.914 | 24.356 | 357.6 | 0.179 | 5.80 | 100.8 | 1.8 | 0.27 | 0.0 | 0.00 | 0.00 | 0.33 | 0.06 | 50 | 216 |
| 62 | 15.03 | 15.02 | 32.915 | 24.361 | 357.4 | 0.222 | 5.83 | 101.2 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.35 | 0.07 | 62 | 215 |
| 75 | 15.00 | 14.99 | 32.911 | 24.365 | 357.5 | 0.268 | 5.80 | 100.6 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.33 | 0.09 | 75 | 214 |
| 87 | 13.25 | 13.24 | 33.038 | 24.827 | 313.6 | 0.309 | 5.69 | 95.3 | 3.1 | 0.41 | 1.2 | 0.05 | 0.00 | 0.20 | 0.18 | 87 | 213 |
| 100 | 12.47 | 12.46 | 33.054 | 24.992 | 298.1 | 0.348 | 5.55 | 91.5 | 4.0 | 0.50 | 2.9 | 0.00 | 0.00 | 0.10 | 0.10 | 100 | 212 |
| 112 | 11.60 | 11.59 | 33.096 | 25.188 | 279.6 | 0.383 | 5.31 | 85.9 | 6.4 | 0.72 | 6.4 | 0.00 | 0.00 | 0.08 | 0.06 | 112 | 211 |
| 125 ISL | 10.41 D | 10.40 | 33.178 D | 25.463 | 253.5 | 0.418 | 4.99 | D 78.7 | 10.6 | 1.05 | 11.6 | 0.00 | 0.00 | 0.04 | 0.04 | 126 | |
| 126 | 10.41 | 10.40 | 33.181 | 25.465 | 253.3 | 0.420 | 4.97 | 78.4 | 10.9 | 1.07 | 12.0 | 0.00 | 0.00 | 0.04 | 0.04 | 127 | 210 |
| 140 | 10.03 | 10.01 | 33.262 | 25.593 | 241.3 | 0.455 | 4.76 | 74.5 | 13.4 | 1.22 | 14.3 | 0.00 | 0.00 | 0.03 | 0.03 | 141 | 209 |
| 150 ISL | 9.54 D | 9.52 | 33.406 D | 25.787 | 223.0 | 0.478 | 4.35 | D 67.4 | 16.3 | 1.38 | 16.9 | 0.00 | 0.00 | 0.02 | 0.03 | 151 | |
| 171 | 9.17 | 9.15 | 33.594 | 25.994 | 203.7 | 0.523 | 3.80 | 58.5 | 23.0 | 1.71 | 22.4 | 0.00 | 0.00 | 0.01 | 0.02 | 172 | 208 |
| 200 ISL | 8.83 D | 8.81 | 33.849 D | 26.247 | 180.1 | 0.579 | 2.88 | D 44.1 | 30.2 | 2.00 | 27.0 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 202 | 8.82 | 8.80 | 33.857 | 26.255 | 179.4 | 0.582 | 2.89 | 44.2 | 30.6 | 2.01 | 27.2 | 0.00 | 0.00 | 0.00 | 0.02 | 203 | 207 |
| 230 | 8.63 | 8.61 | 33.998 | 26.396 | 166.6 | 0.631 | 2.22 | 33.8 | 35.6 | 2.19 | 29.5 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.27 D | 8.24 | 34.010 D | 26.460 | 160.7 | 0.663 | 2.21 | D 33.4 | 37.5 | 2.23 | 30.1 | 0.00 | 0.00 | | | 251 | |
| 271 | 8.07 | 8.04 | 34.016 | 26.495 | 157.6 | 0.697 | 2.23 | 33.6 | 39.5 | 2.25 | 30.5 | 0.00 | 0.00 | | | 272 | 205 |
| 300 ISL | 7.46 D | 7.43 | 34.030 D | 26.595 | 148.3 | 0.741 | 2.13 | D 31.6 | 45.3 | 2.36 | 32.2 | 0.00 | 0.00 | | | 302 | |
| 322 | 7.22 | 7.19 | 34.051 | 26.645 | 143.7 | 0.773 | 1.80 | 26.6 | 50.3 | 2.46 | 33.7 | 0.00 | 0.00 | | | 324 | 204 |
| 379 | 6.52 | 6.49 | 34.087 | 26.769 | 132.4 | 0.852 | 1.25 | 18.2 | 61.0 | 2.72 | 36.9 | 0.00 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.28 D | 6.24 | 34.104 D | 26.814 | 128.3 | 0.879 | 1.11 | D 16.0 | 64.9 | 2.81 | 37.9 | 0.00 | 0.00 | | | 402 | |
| 439 | 5.91 | 5.87 | 34.120 | 26.873 | 122.8 | 0.928 | 0.88 | 12.6 | 71.8 | 2.96 | 39.4 | 0.00 | 0.00 | | | 442 | 202 |
| 500 ISL | 5.59 D | 5.55 | 34.199 D | 26.976 | 113.6 | 1.000 | 0.53 | D 7.5 | 80.6 | 3.07 | 40.7 | 0.00 | 0.00 | | | 503 | |
| 516 | 5.58 | 5.54 | 34.220 | 26.994 | 112.1 | 1.018 | 0.43 | 6.1 | 82.9 | 3.10 | 41.1 | 0.00 | 0.00 | | | 519 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 26.0 N | 121 59.2 W | 17/01/11 | 1812 | UTC | 3883 m | 290 | 24 kn | 240 08 05 | 1 | 1016.0 mb | 18.1 C | 16.1 C | 23m | 1/8 | ST | | |
| 0 ISL | 16.32 | 16.32 | 33.318 | 24.382 | 353.6 | 0.000 | 5.64 | 100.8 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 0 | |
| 3 | 16.32 | 16.32 | 33.318 | 24.382 | 353.7 | 0.011 | 5.64 | 100.8 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 3 | 224 |
| 10 ISL | 16.31 D | 16.31 | 33.319 D | 24.384 | 353.6 | 0.035 | 5.69 | D 101.6 | 2.2 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 10 | |
| 16 | 16.31 | 16.31 | 33.320 | 24.387 | 353.7 | 0.057 | 5.67 | 101.3 | 2.2 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.04 | 16 | 223 |
| 18 | 16.31 | 16.31 | 33.320 | 24.387 | 353.7 | 0.064 | 5.65 | 100.9 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 18 | 222 |
| 20 ISL | 16.31 D | 16.31 | 33.319 D | 24.386 | 353.9 | 0.071 | 5.65 | 100.9 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 20 | |
| 26 | 16.32 | 16.32 | 33.320 | 24.385 | 354.2 | 0.092 | 5.65 | 100.9 | 1.9 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 26 | 221 |
| 30 ISL | 16.31 D | 16.31 | 33.319 D | 24.386 | 354.2 | 0.106 | 5.65 | 100.9 | 1.9 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 30 | |
| 38 | 16.30 | 16.29 | 33.321 | 24.391 | 354.0 | 0.134 | 5.66 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 38 | 220 |
| 50 ISL | 16.30 D | 16.29 | 33.319 D | 24.389 | 354.5 | 0.177 | 5.68 | D 101.4 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 50 | |
| 51 | 16.30 | 16.29 | 33.320 | 24.390 | 354.5 | 0.181 | 5.64 | 100.7 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 51 | 219 |
| 65 | 16.30 | 16.29 | 33.328 | 24.397 | 354.3 | 0.230 | 5.65 | 100.9 | 2.1 | 0.24 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 65 | 218 |
| 75 ISL | 16.30 D | 16.29 | 33.319 D | 24.390 | 355.3 | 0.266 | 5.63 | 100.5 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 75 | |
| 79 | 16.30 | 16.29 | 33.319 | 24.390 | 355.4 | 0.280 | 5.63 | 100.5 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 79 | 217 |
| 86 | 16.21 | 16.20 | 33.310 | 24.404 | 354.3 | 0.305 | 5.64 | 100.5 | 2.2 | 0.26 | 0.1 | 0.01 | 0.00 | 0.17 | 0.08 | 86 | 216 |
| 96 | 14.51 | 14.50 | 33.249 | 24.731 | 323.2 | 0.339 | 5.65 | 97.3 | 3.0 | 0.35 | 0.6 | 0.16 | 0.00 | 0.22 | 0.23 | 96 | 215 |
| 100 ISL | 14.33 D | 14.32 | 33.346 D | 24.844 | 312.5 | 0.351 | 5.64 | D 96.8 | 3.1 | 0.36 | 0.9 | 0.14 | 0.00 | 0.21 | 0.21 | 100 | |
| 110 | 13.39 | 13.37 | 33.263 | 24.973 | 300.3 | 0.382 | 5.54 | 93.2 | 3.6 | 0.41 | 2.1 | 0.04 | 0.00 | 0.17 | 0.16 | 110 | 214 |
| 125 | 12.40 | 12.38 | 33.316 | 25.209 | 278.1 | 0.425 | 5.24 | 86.4 | 6.0 | 0.66 | 6.0 | 0.00 | 0.00 | 0.10 | 0.12 | 126 | 213 |
| 146 | 11.13 | 11.11 | 33.271 | 25.410 | 259.2 | 0.482 | 5.03 | 80.7 | 9.4 | 0.91 | 10.2 | 0.00 | 0.00 | 0.05 | 0.08 | 147 | 212 |
| 150 ISL | 10.97 D | 10.95 | 33.354 D | 25.503 | 250.4 | 0.492 | 4.92 | D 78.7 | 10.2 | 0.96 | 11.1 | 0.00 | 0.00 | 0.04 | 0.07 | 151 | |
| 171 | 10.08 | 10.06 | 33.484 | 25.759 | 226.3 | 0.542 | 4.42 | 69.4 | 15.3 | 1.26 | 16.2 | 0.00 | 0.00 | 0.01 | 0.03 | 172 | 211 |
| 200 ISL | 8.91 D | 8.89 | 33.713 D | 26.128 | 191.4 | 0.603 | 3.56 | D 54.5 | 24.8 | 1.70 | 23.3 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | |
| 201 | 8.97 | 8.95 | 33.675 | 26.089 | 195.2 | 0.604 | 3.62 | 55.5 | 25.1 | 1.71 | 23.5 | 0.00 | 0.00 | 0.00 | 0.02 | 202 | 210 |
| 231 | 8.69 | 8.67 | 33.891 | 26.302 | 175.5 | 0.660 | 3.22 | 49.1 | 29.6 | 1.82 | 25.7 | 0.00 | 0.00 | | | 232 | 209 |
| 250 ISL | 8.33 D | 8.30 | 33.956 D | 26.409 | 165.6 | 0.692 | 3.07 | D 46.5 | 32.7 | 1.89 | 26.8 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.09 | 8.06 | 33.991 | 26.472 | 159.8 | 0.725 | 2.87 | 43.2 | 36.1 | 1.97 | 27.9 | 0.00 | 0.00 | | | 271 | 208 |
| 300 ISL | 7.61 D | 7.58 | 34.014 D | 26.561 | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 4.7 N | 122 39.5 W | 17/01/11 | 0907 UTC | 4072 m | 280 | 21 kn | | | 1018.5 mb | 15.4 C | 14.5 C | | | | | |
| 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 | 15.78 | 15.78 | 33.138 | 24.366 | 355.2 | 0.000 | 5.73 | 101.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.00 | 0.20 | 0.02 | 0 |
| 3 | | 15.78 | 15.78 | 33.138 | 24.366 | 355.2 | 0.011 | 5.73 | 101.2 | 2.3 | 0.28 | 0.0 | 0.00 | 0.00 | 0.20 | 0.02 | 3 220 |
| 10 | ISL | 15.78 | 15.78 | 33.137 D | 24.366 | 355.5 | 0.036 | 5.72 | D101.0 | 2.2 | 0.28 | 0.0 | 0.00 | 0.00 | 0.19 | 0.04 | 10 |
| 11 | | 15.78 | 15.78 | 33.137 | 24.366 | 355.5 | 0.039 | 5.72 | 101.0 | 2.2 | 0.28 | 0.0 | 0.00 | 0.00 | 0.19 | 0.04 | 11 219 |
| 20 | ISL | 15.78 | 15.78 | 33.136 D | 24.365 | 355.9 | 0.071 | 5.72 | D101.0 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 20 |
| 25 | | 15.78 | 15.78 | 33.136 | 24.365 | 356.0 | 0.089 | 5.72 | 101.0 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 25 218 |
| 30 | ISL | 15.78 | 15.78 | 33.137 D | 24.366 | 356.1 | 0.107 | 5.72 | D101.0 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 30 |
| 41 | | 15.79 | 15.78 | 33.138 | 24.365 | 356.5 | 0.146 | 5.72 | 101.0 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.17 | 0.05 | 41 217 |
| 50 | | 15.78 | 15.77 | 33.146 | 24.374 | 356.0 | 0.178 | 5.71 | 100.8 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.21 | 0.05 | 50 216 |
| 63 | | 15.80 | 15.79 | 33.164 | 24.384 | 355.4 | 0.224 | 5.69 | 100.5 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.28 | 0.14 | 63 215 |
| 74 | | 15.81 | 15.80 | 33.170 | 24.386 | 355.5 | 0.263 | 5.68 | 100.3 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.30 | 0.06 | 74 214 |
| 75 | ISL | 15.82 | 15.81 | 33.172 D | 24.386 | 355.6 | 0.267 | 5.69 | D100.5 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.30 | 0.06 | 75 |
| 88 | | 15.52 | 15.51 | 33.180 | 24.459 | 349.0 | 0.313 | 5.69 | 99.9 | 2.4 | 0.27 | 0.1 | 0.03 | 0.00 | 0.26 | 0.12 | 88 213 |
| 100 | | 13.24 | 13.23 | 33.108 | 24.883 | 308.6 | 0.352 | 5.75 | 96.4 | 3.4 | 0.39 | 1.2 | 0.06 | 0.00 | 0.21 | 0.19 | 100 212 |
| 112 | | 12.05 | 12.04 | 32.994 | 25.025 | 295.1 | 0.388 | 5.71 | 93.2 | 3.9 | 0.49 | 2.5 | 0.01 | 0.00 | 0.16 | 0.15 | 112 211 |
| 125 | | 11.56 | 11.54 | 33.066 | 25.172 | 281.4 | 0.426 | 5.50 | 88.9 | | | | | 0.09 | 0.08 | 126 | 210 |
| 140 | | 10.72 | 10.70 | 33.159 | 25.395 | 260.4 | 0.466 | 5.06 | 80.4 | 9.8 | 0.95 | 10.4 | 0.00 | 0.00 | 0.06 | 0.07 | 141 209 |
| 150 | ISL | 9.93 | 9.91 | 33.302 D | 25.641 | 237.0 | 0.491 | 4.83 | D 75.5 | 12.8 | 1.14 | 13.5 | 0.00 | 0.00 | 0.04 | 0.06 | 151 |
| 170 | | 9.43 | 9.41 | 33.495 | 25.874 | 215.1 | 0.537 | 4.28 | 66.2 | 19.1 | 1.50 | 19.1 | 0.00 | 0.00 | 0.01 | 0.04 | 171 208 |
| 200 | | 8.92 | 8.90 | 33.721 | 26.133 | 191.0 | 0.597 | 3.45 | 52.8 | 26.7 | 1.85 | 24.6 | 0.00 | 0.00 | 0.00 | 0.02 | 201 207 |
| 230 | | 8.68 | 8.66 | 33.916 | 26.324 | 173.4 | 0.652 | 3.19 | 48.7 | 30.5 | 1.92 | 25.9 | 0.00 | 0.00 | | | 231 206 |
| 250 | ISL | 8.23 | 8.20 | 33.969 D | 26.434 | 163.1 | 0.686 | 3.06 | D 46.2 | 33.4 | 1.95 | 26.7 | 0.00 | 0.00 | | | 251 |
| 270 | | 7.91 | 7.88 | 33.984 | 26.493 | 157.7 | 0.718 | 3.04 | 45.6 | 36.7 | 2.01 | 27.7 | 0.00 | 0.00 | | | 271 205 |
| 300 | ISL | 7.50 D | 7.47 | 33.999 D | 26.565 | 151.2 | 0.764 | 2.57 | D 38.2 | 43.2 | 2.21 | 30.3 | 0.00 | 0.00 | | | 302 |
| 322 | | 7.26 | 7.23 | 34.023 | 26.618 | 146.4 | 0.797 | 2.14 | 31.6 | 48.2 | 2.38 | 32.3 | 0.00 | 0.00 | | | 324 204 |
| 381 | | 6.82 | 6.78 | 34.109 | 26.746 | 134.8 | 0.880 | 1.21 | 17.7 | 58.5 | 2.74 | 36.2 | 0.00 | 0.00 | | | 383 203 |
| 400 | ISL | 6.63 D | 6.59 | 34.121 D | 26.781 | 131.6 | 0.905 | 1.12 | D 16.3 | 61.7 | 2.82 | 37.1 | 0.00 | 0.00 | | | 402 |
| 439 | | 6.28 | 6.24 | 34.141 | 26.843 | 126.0 | 0.955 | 0.88 | 12.7 | 68.0 | 2.95 | 38.5 | 0.00 | 0.00 | | | 442 202 |
| 500 | ISL | 5.76 D | 5.72 | 34.179 D | 26.939 | 117.3 | 1.030 | 0.63 D | 9.0 | 76.1 | 3.08 | 40.0 | 0.00 | 0.00 | | | 503 |
| 520 | | 5.76 | 5.72 | 34.220 | 26.972 | 114.5 | 1.053 | 0.49 | 7.0 | 78.8 | 3.12 | 40.5 | 0.00 | 0.00 | | | 523 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 45.2 N | 123 20.1 W | 17/01/11 | 0042 UTC | 4041 m | 300 | 20 kn | 350 06 05 | 0 | 1018.7 mb | 15.5 C | 14.0 C | | 3/8 | ST | | |
| 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 | 15.82 | 15.82 | 33.127 | 24.349 | 356.8 | 0.000 | 5.70 | 100.7 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 0 |
| 2 | | 15.82 | 15.82 | 33.127 | 24.349 | 356.9 | 0.007 | 5.70 | 100.7 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 2 220 |
| 10 | | 15.82 | 15.82 | 33.127 | 24.349 | 357.1 | 0.036 | 5.70 | 100.7 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.17 | 0.02 | 10 219 |
| 20 | ISL | 15.83 | 15.83 | 33.128 D | 24.348 | 357.5 | 0.071 | 5.72 | D101.1 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.17 | 0.03 | 20 |
| 25 | | 15.82 | 15.82 | 33.128 | 24.350 | 357.4 | 0.089 | 5.71 | 100.9 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.17 | 0.04 | 25 218 |
| 30 | ISL | 15.80 D | 15.80 | 33.130 D | 24.356 | 357.0 | 0.107 | 5.73 | D101.2 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.17 | 0.04 | 30 |
| 40 | | 15.78 | 15.77 | 33.134 | 24.364 | 356.6 | 0.143 | 5.73 | 101.1 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.17 | 0.04 | 40 217 |
| 50 | ISL | 15.77 D | 15.76 | 33.138 D | 24.370 | 356.4 | 0.178 | 5.71 | D100.8 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.22 | 0.05 | 50 |
| 51 | | 15.77 | 15.76 | 33.139 | 24.371 | 356.3 | 0.182 | 5.70 | 100.6 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.22 | 0.05 | 51 216 |
| 62 | | 15.77 | 15.76 | 33.138 | 24.370 | 356.7 | 0.221 | 5.70 | 100.6 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.23 | 0.08 | 62 215 |
| 75 | | 15.79 | 15.78 | 33.150 | 24.375 | 356.6 | 0.268 | 5.70 | 100.6 | 2.3 | 0.27 | 0.0 | 0.00 | 0.00 | 0.28 | 0.04 | 75 214 |
| 88 | | 14.61 | 14.60 | 33.268 | 24.724 | 323.6 | 0.312 | 5.77 | 99.6 | 2.9 | 0.29 | 0.2 | 0.10 | 0.00 | 0.32 | 0.22 | 88 213 |
| 100 | | 13.69 | 13.68 | 33.286 | 24.930 | 304.2 | 0.350 | 5.67 | 96.0 | 3.4 | 0.35 | 1.0 | 0.08 | 0.00 | 0.25 | 0.14 | 100 212 |
| 112 | | 13.06 | 13.04 | 33.355 | 25.110 | 287.3 | 0.385 | 5.47 | 91.5 | 4.2 | 0.44 | 2.7 | 0.01 | 0.00 | 0.12 | 0.13 | 112 211 |
| 124 | | 12.35 | 12.33 | 33.373 | 25.263 | 273.0 | 0.419 | 5.37 | 88.5 | 5.4 | 0.55 | 4.6 | 0.00 | 0.00 | 0.07 | 0.08 | 125 210 |
| 125 | ISL | 12.21 D | 12.19 | 33.377 D | 25.293 | 270.1 | 0.421 | 5.35 D | 87.9 | 5.5 | 0.56 | 4.7 | 0.00 | 0.00 | 0.07 | 0.08 | 126 |
| 141 | | 11.42 | 11.40 | 33.382 | 25.444 | 256.0 | 0.463 | 5.17 | 83.5 | 7.8 | 0.75 | 7.9 | 0.00 | 0.00 | 0.05 | 0.06 | 142 209 |
| 150 | ISL | 11.18 D | 11.16 | 33.400 D | 25.501 | 250.6 | 0.486 | 5.10 D | 81.9 | 11.2 | 0.99 | 11.5 | 0.00 | 0.00 | 0.04 | 0.05 | 151 |
| 170 | | 9.29 | 9.27 | 33.410 | 25.830 | 219.2 | 0.533 | 4.28 | 66.0 | 19.6 | 1.54 | 19.5 | 0.00 | 0.00 | 0.01 | 0.03 | 171 208 |
| 200 | ISL | 8.82 D | 8.80 | 33.685 D | 26.120 | 192.1 | 0.595 | 3.59 D | 54.9 | 26.4 | 1.79 | 24.1 | 0.00 | 0.00 | 0.00 | 0.02 | 201 |
| 201 | | 8.82 | 8.80 | 33.683 | 26.119 | 192.3 | 0.597 | 3.58 | 54.7 | 26.5 | 1.79 | 24.2 | 0.00 | 0.00 | | | 202 207 |
| 231 | | 8.71 | 8.69 | 33.915 | 26.318 | 174.0 | 0.652 | 3.36 | 51.3 | 29.3 | 1.81 | 24.9 | 0.00 | 0.00 | | | 232 206 |
| 250 | ISL | 8.50 D | 8.47 | 33.982 D | 26.403 | 166.2 | 0.684 | 2.99 D | 45.4 | 32.6 | 1.91 | 26.2 | 0.00 | 0.00 | | | 251 |
| 269 | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 120.0

| 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 | 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 | 16.57 | 16.57 | 33.376 | 24.369 | 354.8 | 0.000 | 5.62 | 100.9 | 2.0 | 0.28 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 0 | | |
| 2 A | 16.57 | 16.57 | 33.376 | 24.369 | 354.9 | 0.007 | 5.62 | 100.9 | 2.0 | 0.28 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 2 | 221 | |
| 10 | 16.56 | 16.56 | 33.373 | 24.370 | 355.1 | 0.035 | 5.62 | 100.9 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 10 | 220 | |
| 18 A | 16.57 | 16.57 | 33.375 | 24.369 | 355.4 | 0.064 | 5.63 | 101.1 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 18 | 219 | |
| 20 ISL | 16.56 | D 16.56 | 33.374 | D 24.371 | 355.4 | 0.071 | 5.63 | D 101.1 | 2.0 | 0.26 | 0.0 | 0.00 | 0.03 | 0.15 | 0.05 | 20 | | |
| 21 A | 16.56 | 16.56 | 33.376 | 24.372 | 355.2 | 0.075 | 5.61 | 100.7 | 1.9 | 0.26 | 0.0 | 0.00 | 0.04 | 0.15 | 0.05 | 21 | 218 | |
| 30 ISL | 16.57 | D 16.57 | 33.375 | D 24.370 | 355.8 | 0.107 | 5.63 | D 101.1 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 30 | | |
| 31 A | 16.57 | 16.57 | 33.375 | 24.370 | 355.8 | 0.110 | 5.61 | 100.7 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 31 | 217 | |
| 44 A | 16.57 | 16.56 | 33.374 | 24.369 | 356.3 | 0.156 | 5.61 | 100.7 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 44 | 216 | |
| 50 ISL | 16.57 | D 16.56 | 33.374 | D 24.370 | 356.5 | 0.178 | 5.63 | D 101.1 | 2.2 | 0.27 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 50 | | |
| 60 | 16.57 | 16.56 | 33.374 | 24.370 | 356.7 | 0.213 | 5.62 | 100.9 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 60 | 215 | |
| 75 | 16.57 | 16.56 | 33.375 | 24.371 | 357.1 | 0.267 | 5.59 | 100.4 | 2.2 | 0.26 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 75 | 214 | |
| 92 A | 16.48 | 16.47 | 33.362 | 24.383 | 356.6 | 0.328 | 5.62 | 100.7 | 2.3 | 0.26 | 0.0 | 0.00 | 0.00 | 0.17 | 0.08 | 92 | 213 | |
| 99 | 15.80 | 15.78 | 33.323 | 24.507 | 344.8 | 0.352 | 5.61 | 99.2 | 2.5 | 0.30 | 0.2 | 0.07 | 0.00 | 0.23 | 0.18 | 99 | 212 | |
| 100 ISL | 15.17 | D 15.15 | 33.299 | D 24.628 | 333.2 | 0.356 | 5.68 | D 99.1 | 2.6 | 0.31 | 0.2 | 0.08 | 0.00 | 0.23 | 0.18 | 100 | | |
| 111 | 14.26 | 14.24 | 33.277 | 24.806 | 316.5 | 0.391 | 5.57 | 95.4 | 3.4 | 0.40 | 1.1 | 0.16 | 0.00 | 0.20 | 0.17 | 111 | 211 | |
| 124 | 13.17 | 13.15 | 33.264 | 25.018 | 296.4 | 0.431 | 5.36 | 89.8 | 4.6 | 0.58 | 3.8 | 0.02 | 0.00 | 0.14 | 0.15 | 124 | 210 | |
| 125 ISL | 12.81 | D 12.79 | 33.263 | D 25.089 | 289.6 | 0.434 | 5.32 | D 88.4 | 4.7 | 0.59 | 4.0 | 0.02 | 0.00 | 0.14 | 0.15 | 125 | | |
| 145 | 11.69 | 11.67 | 33.275 | 25.311 | 268.7 | 0.490 | 5.49 | 83.0 | 7.9 | 0.85 | 8.3 | 0.00 | 0.00 | 0.08 | 0.08 | 146 | 209 | |
| 150 ISL | 11.29 | D 11.27 | 33.303 | D 25.406 | 259.7 | 0.503 | 4.97 | D 80.0 | 9.0 | 0.93 | 9.6 | 0.00 | 0.00 | 0.07 | 0.07 | 151 | | |
| 170 | 10.28 | 10.26 | 33.410 | 25.667 | 235.1 | 0.553 | 4.56 | 71.9 | 14.1 | 1.24 | 15.0 | 0.00 | 0.00 | 0.02 | 0.04 | 171 | 208 | |
| 200 ISL | 9.34 | D 9.32 | 33.755 | D 26.093 | 195.0 | 0.617 | 3.76 | D 58.2 | 22.7 | 1.63 | 21.4 | 0.00 | 0.00 | 0.00 | 0.02 | 201 | | |
| 201 | 9.38 | 9.36 | 33.744 | 26.078 | 196.5 | 0.619 | 3.75 | 58.0 | 23.0 | 1.64 | 21.6 | 0.00 | 0.00 | 0.00 | 0.02 | 202 | 207 | |
| 231 | 8.98 | 8.96 | 33.903 | 26.267 | 179.0 | 0.675 | 3.28 | 50.4 | 28.5 | 1.81 | 24.5 | 0.00 | 0.00 | | | 232 | 206 | |
| 250 ISL | 8.59 | D 8.56 | 33.975 | D 26.384 | 168.0 | 0.708 | 3.02 | D 46.0 | 32.7 | 1.95 | 26.5 | 0.00 | 0.00 | | | 251 | | |
| 272 | 8.21 | 8.18 | 34.014 | 26.473 | 159.9 | 0.744 | 2.64 | 39.9 | 37.4 | 2.12 | 28.7 | 0.00 | 0.00 | | | 273 | 205 | |
| 300 ISL | 7.98 | D 7.95 | 34.035 | D 26.524 | 155.4 | 0.789 | 2.41 | D 36.2 | 42.1 | 2.26 | 30.6 | 0.00 | 0.03 | | | 302 | | |
| 319 | 7.71 | 7.68 | 34.052 | 26.577 | 150.5 | 0.818 | 2.07 | 30.9 | 44.9 | 2.34 | 31.7 | 0.00 | 0.05 | | | 321 | 204 | |
| 381 | 7.20 | 7.16 | 34.104 | 26.691 | 140.4 | 0.908 | 1.41 | 20.8 | 53.9 | 2.65 | 35.0 | 0.00 | 0.07 | | | 383 | 203 | |
| 400 ISL | 6.88 | D 6.84 | 34.119 | D 26.746 | 135.2 | 0.934 | 1.21 | D 17.7 | 57.1 | 2.73 | 36.0 | 0.00 | 0.05 | | | 402 | | |
| 442 | 6.57 | 6.53 | 34.138 | 26.803 | 130.2 | 0.990 | 0.95 | 13.8 | 64.2 | 2.88 | 37.9 | 0.00 | 0.00 | | | 445 | 202 | |
| 500 ISL | 6.09 | D 6.05 | 34.178 | D 26.897 | 121.6 | 1.063 | 0.69 | D 9.9 | 73.5 | 2.99 | 39.6 | 0.00 | 0.00 | | | 503 | | |
| 515 | 5.93 | 5.89 | 34.181 | 26.920 | 119.5 | 1.081 | 0.62 | 8.9 | 75.9 | 3.02 | 40.1 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 91.7 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 | 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 | 13.78 | 13.78 | 33.091 | 24.758 | 317.8 | 0.000 | 5.91 | 100.2 | 4.6 | 0.47 | 1.5 | 0.15 | 1.19 | 2.32 | 0.55 | 0 | | |
| 1 | 13.78 | 13.78 | 33.091 | 24.758 | 317.8 | 0.003 | 5.91 | 100.2 | 4.6 | 0.47 | 1.5 | 0.15 | 1.19 | 2.32 | 0.55 | 1 | 204 | |
| 5 | 13.78 | 13.78 | 33.084 | D 24.753 | 318.4 | 0.016 | 5.96 | 101.0 | 4.9 | 0.43 | 1.6 | 0.16 | 1.25 | 2.90 | 0.44 | 5 | 203 | |
| 10 ISL | 13.84 | D 13.84 | 33.178 | D 24.813 | 312.8 | 0.032 | 5.82 | D 98.8 | 4.0 | 0.44 | 1.3 | 0.14 | 1.11 | 2.23 | 0.46 | 10 | | |
| 12 | 13.85 | 13.85 | 33.180 | 24.813 | 312.9 | 0.038 | 5.82 | 98.8 | 3.6 | 0.44 | 1.2 | 0.13 | 1.06 | 1.96 | 0.47 | 12 | 201 | |
| 12 | 13.85 | 13.85 | 33.182 | 24.814 | 312.8 | 0.038 | | | | | | | | | | | | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 26.7

| 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 | 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 | 33.194 | 24.740 | 319.5 | 0.000 | 6.05 | 103.6 | 3.0 | 0.38 | 0.0 | 0.11 | 0.41 | 1.55 | 0.44 | 0 | | |
| 2 | 14.25 | 14.25 | 33.194 | 24.740 | 319.5 | 0.006 | 6.05 | 103.6 | 3.0 | 0.38 | 0.0 | 0.11 | 0.41 | 1.55 | 0.44 | 2 | 207 | |
| 10 | 13.98 | 13.98 | 33.178 | 24.784 | 315.6 | 0.032 | 6.07 | 103.4 | 3.1 | 0.38 | 0.0 | 0.12 | 0.44 | 1.85 | 0.50 | 10 | 206 | |
| 20 | 14.03 | 14.03 | 33.274 | 24.849 | 309.8 | 0.063 | 5.70 | 97.2 | 3.5 | 0.48 | 0.3 | 0.19 | 0.62 | 1.12 | 0.54 | 20 | 205 | |
| 30 | 12.69 | 12.69 | 33.353 | 25.179 | 278.5 | 0.092 | 4.52 | 75.0 | 9.6 | 1.03 | 7.8 | 0.62 | 0.47 | 0.41 | 0.30 | 30 | 204 | |
| 40 | 11.63 | 11.62 | 33.392 | 25.411 | 256.7 | 0.119 | 4.12 | 66.9 | 13.8 | 1.28 | 12.7 | 0.23 | 0.47 | 0.28 | 0.30 | 40 | 203 | |
| 50 | 10.89 | 10.88 | 33.436 | 25.579 | 240.9 | 0.144 | 3.92 | 62.6 | 16.5 | 1.41 | 15.1 | 0.09 | 0.84 | 0.26 | 0.27 | 50 | 202 | |
| 60 | 10.67 | 10.66 | 33.484 | 25.655 | 233.8 | 0.168 | 3.72 | 59.2 | 18.3 | 1.50 | 16.7 | 0.11 | 0.21 | 0.26 | 0.26 | 60 | 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 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 | SI03 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | m l/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.09 | 14.09 | 33.238 | 24.808 | 313.1 | 0.000 | 5.97 | 101.9 | 2.7 | 0.36 | 0.6 | 0.09 | 0.25 | 0.99 | 0.36 | 0 | |
| 1 | 14.09 | 14.09 | 33.238 | 24.808 | 313.1 | 0.003 | 5.97 | 101.9 | 2.7 | 0.36 | 0.6 | 0.09 | 0.25 | 0.99 | 0.36 | 1 | 220 |
| 10 | 14.10 | 14.10 | 33.242 | 24.809 | 313.2 | 0.031 | 5.98 | 102.1 | 2.7 | 0.36 | 0.7 | 0.10 | 0.18 | 0.82 | 0.38 | 10 | 219 |
| 20 | 14.02 | 14.02 | 33.261 | 24.841 | 310.5 | 0.063 | 5.85 | 99.7 | 2.9 | 0.40 | 1.0 | 0.14 | 0.31 | 0.91 | 0.42 | 20 | 218 |
| 30 | 13.73 | 13.73 | 33.295 | 24.927 | 302.6 | 0.093 | 5.35 | 90.7 | 4.2 | 0.61 | 3.2 | 0.42 | 0.83 | 0.54 | 0.40 | 30 | 217 |
| 40 | 12.36 | 12.35 | 33.318 | 25.216 | 275.2 | 0.122 | 4.76 | 78.4 | 8.9 | 1.01 | 10.0 | 0.12 | 0.04 | 0.13 | 0.15 | 40 | 216 |
| 50 | 10.92 | 10.91 | 33.379 | 25.529 | 245.6 | 0.148 | 4.21 | 67.3 | 14.3 | 1.37 | 15.8 | 0.03 | 0.00 | 0.15 | 0.18 | 50 | 215 |
| 61 | 10.46 | 10.45 | 33.419 | 25.641 | 235.2 | 0.175 | 4.06 | 64.2 | 16.6 | 1.47 | 17.5 | 0.01 | 0.00 | 0.08 | 0.14 | 61 | 214 |
| 70 | 10.25 | 10.24 | 33.504 | 25.743 | 225.6 | 0.195 | 3.79 | 59.7 | 18.7 | 1.55 | 19.1 | 0.01 | 0.00 | 0.05 | 0.12 | 70 | 213 |
| 75 ISL | 10.15 | D 10.14 | 33.553 | D 25.799 | 220.5 | 0.206 | 3.69 | 58.0 | 19.9 | 1.60 | 19.9 | 0.01 | 0.00 | 0.04 | 0.11 | 75 | |
| 85 | 9.92 | 9.91 | 33.695 | 25.948 | 206.4 | 0.228 | 3.35 | 52.5 | 22.5 | 1.70 | 21.3 | 0.01 | 0.00 | 0.03 | 0.09 | 85 | 212 |
| 100 ISL | 9.94 | D 9.93 | 33.854 | D 26.069 | 195.3 | 0.258 | 2.68 | 42.0 | 26.6 | 1.90 | 23.4 | 0.01 | 0.00 | 0.03 | 0.13 | 101 | |
| 101 | 9.95 | 9.94 | 33.842 | 26.058 | 196.3 | 0.260 | 2.68 | 42.0 | 26.8 | 1.91 | 23.5 | 0.01 | 0.00 | 0.03 | 0.13 | 102 | 211 |
| 120 | 9.85 | 9.84 | 33.892 | 26.115 | 191.4 | 0.297 | 2.57 | 40.2 | 27.7 | 1.96 | 24.2 | 0.01 | 0.00 | 0.03 | 0.11 | 121 | 210 |
| 125 ISL | 9.78 | D 9.77 | 33.909 | D 26.140 | 189.1 | 0.306 | 2.58 | D 40.3 | 28.3 | 1.98 | 24.5 | 0.01 | 0.00 | 0.03 | 0.10 | 126 | |
| 141 | 9.66 | 9.64 | 34.013 | 26.241 | 179.8 | 0.336 | 2.29 | 35.7 | 30.3 | 2.04 | 25.6 | 0.00 | 0.00 | 0.02 | 0.08 | 142 | 209 |
| 150 ISL | 9.47 | D 9.45 | 34.035 | D 26.290 | 175.3 | 0.352 | 2.27 | D 35.3 | 31.1 | 2.05 | 26.0 | 0.00 | 0.00 | 0.02 | 0.08 | 151 | |
| 170 | 9.06 | 9.04 | 34.036 | 26.357 | 169.3 | 0.386 | 2.40 | 37.0 | 32.9 | 2.06 | 26.8 | 0.00 | 0.00 | 0.02 | 0.10 | 171 | 208 |
| 200 ISL | 8.91 | D 8.89 | 34.136 | D 26.460 | 160.1 | 0.436 | 1.70 | D 26.1 | 37.7 | 2.28 | 28.8 | 0.00 | 0.00 | 0.01 | 0.08 | 201 | |
| 201 | 8.90 | 8.88 | 34.135 | 26.460 | 160.0 | 0.437 | 1.73 | 26.6 | 37.9 | 2.29 | 28.9 | 0.00 | 0.00 | 0.01 | 0.08 | 202 | 207 |
| 230 | 8.60 | 8.58 | 34.174 | 26.538 | 153.1 | 0.483 | 1.36 | 20.7 | 42.2 | 2.46 | 30.8 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.35 | D 8.32 | 34.183 | D 26.584 | 149.0 | 0.513 | 1.31 | D 19.9 | 45.0 | 2.53 | 31.7 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.19 | 8.16 | 34.203 | 26.624 | 145.5 | 0.542 | 1.14 | 17.2 | 47.6 | 2.58 | 32.4 | 0.00 | 0.00 | | | 272 | 205 |
| 300 ISL | 7.93 | D 7.90 | 34.233 | D 26.687 | 140.0 | 0.585 | 0.90 | D 13.5 | 51.2 | 2.68 | 33.5 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.76 | 7.73 | 34.233 | 26.712 | 137.9 | 0.614 | 0.84 | 12.6 | 53.6 | 2.74 | 34.2 | 0.00 | 0.00 | | | 323 | 204 |
| 380 | 7.28 | 7.24 | 34.259 | 26.802 | 130.0 | 0.693 | 0.58 | 8.6 | 60.6 | 2.87 | 36.0 | 0.00 | 0.00 | | | 382 | 203 |
| 400 ISL | 7.10 | D 7.06 | 34.267 | D 26.833 | 127.2 | 0.719 | 0.53 | D 7.8 | 63.2 | 2.92 | 36.6 | 0.00 | 0.00 | | | 403 | |
| 441 | 6.70 | 6.66 | 34.275 | 26.894 | 121.7 | 0.770 | 0.45 | 6.6 | 68.4 | 3.01 | 37.8 | 0.00 | 0.00 | | | 444 | 202 |
| 500 ISL | 6.35 | D 6.30 | 34.300 | D 26.961 | 116.0 | 0.840 | 0.34 | D 4.9 | 73.9 | 3.08 | 38.8 | 0.00 | 0.00 | | | 503 | |
| 516 | 6.32 | 6.27 | 34.301 | 26.965 | 115.7 | 0.859 | 0.32 | 4.6 | 75.4 | 3.10 | 39.1 | 0.00 | 0.00 | | | 520 | 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | PO4 | N03 | N02 | NH4 | CHL-A | PHAEAO | PRES | SAMP |
| m | DEG C | DEG C | THETA | | m l/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | db | |
| 0 ISL | 14.15 | 14.15 | 33.303 | 24.845 | 309.5 | 0.000 | 5.82 | 99.5 | 2.2 | 0.40 | 0.7 | 0.06 | 0.38 | 0.31 | 0.09 | 0 | |
| 2 | 14.15 | 14.15 | 33.303 | 24.845 | 309.5 | 0.006 | 5.82 | 99.5 | 2.2 | 0.40 | 0.7 | 0.06 | 0.38 | 0.31 | 0.09 | 2 | 220 |
| 10 | 14.15 | 14.15 | 33.302 | 24.845 | 309.8 | 0.031 | 5.84 | 99.9 | 2.2 | 0.39 | 0.7 | 0.06 | 0.33 | 0.31 | 0.09 | 10 | 219 |
| 20 | 14.09 | 14.09 | 33.301 | 24.857 | 309.0 | 0.062 | 5.83 | 99.6 | 2.3 | 0.40 | 0.7 | 0.07 | 0.32 | 0.35 | 0.13 | 20 | 218 |
| 30 | 14.04 | 14.04 | 33.303 | 24.869 | 308.1 | 0.093 | 5.81 | 99.1 | 2.3 | 0.42 | 0.9 | 0.08 | 0.39 | 0.35 | 0.14 | 30 | 217 |
| 40 | 13.27 | 13.26 | 33.252 | 24.987 | 297.1 | 0.123 | 5.37 | 90.1 | 4.5 | 0.66 | 4.3 | 0.16 | 0.29 | 0.28 | 0.11 | 40 | 216 |
| 50 | 11.48 | 11.47 | 33.272 | 25.345 | 263.1 | 0.151 | 4.62 | 74.7 | 11.1 | 1.16 | 12.7 | 0.05 | 0.00 | 0.09 | 0.10 | 50 | 215 |
| 60 | 11.09 | 11.08 | 33.316 | 25.450 | 253.4 | 0.177 | 4.46 | 71.5 | 12.9 | 1.26 | 14.5 | 0.03 | 0.00 | 0.08 | 0.10 | 60 | 214 |
| 70 | 10.59 | 10.58 | 33.352 | 25.566 | 242.5 | 0.202 | 4.32 | 68.5 | 15.2 | 1.37 | 16.4 | 0.01 | 0.00 | 0.05 | 0.08 | 70 | 213 |
| 75 ISL | 10.45 | D 10.44 | 33.373 | D 25.607 | 238.7 | 0.214 | 4.24 | D 67.1 | 16.3 | 1.43 | 17.3 | 0.01 | 0.00 | 0.04 | 0.08 | 75 | |
| 84 | 10.21 | 10.20 | 33.465 | 25.720 | 228.1 | 0.235 | 3.97 | 62.5 | 18.2 | 1.53 | 18.9 | 0.01 | 0.00 | 0.03 | 0.08 | 84 | 212 |
| 100 | 9.88 | 9.87 | 33.679 | 25.943 | 207.3 | 0.270 | 3.41 | 53.4 | 22.4 | 1.69 | 21.6 | 0.00 | 0.00 | 0.01 | 0.05 | 100 | 211 |
| 120 | 9.56 | 9.55 | 33.809 | 26.098 | 192.9 | 0.310 | 2.90 | 45.1 | 26.6 | 1.88 | 24.4 | 0.00 | 0.00 | 0.01 | 0.07 | 121 | 210 |
| 125 ISL | 9.50 | D 9.49 | 33.822 | D 26.118 | 191.1 | 0.319 | 2.87 | D 44.6 | 27.4 | 1.92 | 24.7 | 0.00 | 0.00 | 0.01 | 0.07 | 126 | |
| 141 | 9.74 | 9.72 | 33.975 | 26.198 | 183.9 | 0.349 | 2.36 | 36.9 | 29.7 | 2.03 | 25.4 | 0.00 | 0.00 | 0.01 | 0.07 | 142 | 209 |
| 150 ISL | 9.68 | D 9.66 | 34.020 | D 26.244 | 179.8 | 0.365 | 2.29 | D 35.8 | 30.8 | 2.08 | 26.0 | 0.00 | 0.00 | 0.01 | 0.06 | 151 | |
| 170 | 9.40 | 9.38 | 34.080 | 26.337 | 171.3 | 0.401 | 2.06 | 32.0 | 33.0 | 2.15 | 27.2 | 0.00 | 0.00 | 0.01 | 0.05 | 171 | 208 |
| 200 | 8.98 | 8.96 | 34.124 | 26.439 | 162.1 | 0.451 | 1.96 | 30.1 | 36.2 | 2.21 | 28.3 | 0.00 | 0.00 | 0.01 | 0.04 | 201 | 207 |
| 230 | 8.50 | 8.48 | 34.126 | 26.516 | 155.2 | 0.498 | 1.89 | 28.8 | 40.3 | 2.27 | 29.6 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.29 | D 8.26 | 34.165 | D 26.579 | 149.5 | 0.529 | 1.53 | D 23.2 | 43.7 | 2.40 | 30.9 | 0.00 | 0.00 | | | 251 | |
| 270 | 8.22 | 8.19 | 34.198 | 26.615 | 146.3 | 0.558 | 1.20 | 18.1 | 47.0 | 2.54 | 32.2 | 0.00 | 0.00 | | | 272 | 205 |
| 300 ISL | 8.04 | D 8.01 | 34.226 | D 26.665 | 142.1 | 0.602 | 0.95 | D 14.3 | 50.3 | 2.64 | 33.3 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.86 | 7.83 | 34.229 | 26.694 | 139.6 | 0.631 | 0.90 | 13.5 | 52.4 | 2.68 | 33.9 | 0.00 | 0.00 | | | 323 | 204 |
| 380 | 7.37 | 7.33 | 34.257 | 26.787 | 131.5 | 0.711 | 0.63 | 9.3 | 59.8 | 2.85 | 35.8 | 0.00 | 0.00 | | | 382 | 203 |
| 400 ISL | 7.15 | D 7.11 | 34.261 | D 26.821 | 128.4 | 0.737 | 0.57 | D 8.4 | 62.2 | 2.88 | 36.4 | 0.00 | 0.00 | | | 403 | |
| 440 | 6. | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 14.26 | 14.26 | 33.299 | 24.819 | 312.0 | 0.000 | 5.95 | 102.0 | 2.5 | 0.39 | 0.9 | 0.06 | 0.05 | 0.79 | 0.25 | 0 | |
| 2 A | 14.26 | 14.26 | 33.299 | 24.819 | 312.0 | 0.006 | 5.95 | 102.0 | 2.5 | 0.39 | 0.9 | 0.06 | 0.05 | 0.79 | 0.25 | 2 | 221 |
| 8 | 14.17 | 14.17 | 33.300 | 24.839 | 310.3 | 0.025 | 5.97 | 102.1 | 2.4 | 0.39 | 0.9 | 0.06 | 0.05 | 0.88 | 0.34 | 8 | 220 |
| 10 ISL | 14.17 D | 14.17 | 33.300 D | 24.839 | 310.4 | 0.031 | 5.98 | 102.3 | 2.5 | 0.41 | 1.1 | 0.07 | 0.08 | 0.84 | 0.33 | 10 | |
| 14 A | 13.96 | 13.96 | 33.291 | 24.876 | 307.0 | 0.043 | 5.85 | 99.6 | 2.6 | 0.45 | 1.6 | 0.09 | 0.13 | 0.73 | 0.30 | 14 | 219 |
| 17 A | 13.91 | 13.91 | 33.292 | 24.887 | 306.0 | 0.053 | 5.78 | 98.3 | 2.7 | 0.46 | 1.9 | 0.11 | 0.14 | 0.66 | 0.31 | 17 | 218 |
| 20 ISL | 13.91 D | 13.91 | 33.295 D | 24.890 | 305.8 | 0.062 | 5.80 | 98.7 | 2.8 | 0.47 | 2.0 | 0.13 | 0.16 | 0.61 | 0.29 | 20 | |
| 24 A | 13.85 | 13.85 | 33.295 | 24.902 | 304.8 | 0.074 | 5.68 | 96.5 | 3.0 | 0.50 | 2.4 | 0.15 | 0.18 | 0.56 | 0.26 | 24 | 217 |
| 30 ISL | 13.19 D | 13.19 | 33.298 D | 25.038 | 291.9 | 0.092 | 5.53 | 92.7 | 4.5 | 0.65 | 4.7 | 0.21 | 0.11 | 0.50 | 0.24 | 30 | |
| 35 A | 12.82 | 12.82 | 33.274 | 25.093 | 286.9 | 0.106 | 5.08 | 84.5 | 6.5 | 0.83 | 7.5 | 0.24 | 0.04 | 0.44 | 0.23 | 35 | 216 |
| 47 | 11.46 | 11.45 | 33.367 | 25.423 | 255.7 | 0.139 | 4.26 | 68.9 | 13.2 | 1.31 | 15.1 | 0.01 | 0.00 | 0.17 | 0.23 | 47 | 215 |
| 50 ISL | 11.31 D | 11.30 | 33.381 D | 25.461 | 252.1 | 0.147 | 4.23 | 68.2 | 14.0 | 1.35 | 15.8 | 0.01 | 0.00 | 0.14 | 0.22 | 50 | |
| 59 | 10.94 | 10.93 | 33.401 | 25.543 | 244.5 | 0.169 | 4.09 | 65.4 | 15.4 | 1.41 | 16.8 | 0.01 | 0.00 | 0.10 | 0.19 | 59 | 214 |
| 71 A | 10.63 | 10.62 | 33.456 | 25.641 | 235.5 | 0.198 | 3.96 | 62.9 | 16.8 | 1.49 | 18.1 | 0.01 | 0.00 | 0.06 | 0.13 | 71 | 213 |
| 75 ISL | 10.39 D | 10.38 | 33.534 D | 25.743 | 225.8 | 0.207 | 3.94 | 62.3 | 17.8 | 1.54 | 18.8 | 0.01 | 0.00 | 0.05 | 0.12 | 75 | |
| 85 | 10.17 | 10.16 | 33.593 | 25.827 | 218.0 | 0.229 | 3.56 | 56.0 | 20.6 | 1.66 | 20.6 | 0.01 | 0.00 | 0.03 | 0.11 | 85 | 212 |
| 100 | 9.97 | 9.96 | 33.720 | 25.960 | 205.7 | 0.261 | 3.21 | 50.3 | 23.4 | 1.80 | 22.4 | 0.00 | 0.00 | 0.02 | 0.09 | 101 | 211 |
| 120 | 9.99 | 9.98 | 33.886 | 26.087 | 194.1 | 0.301 | 2.53 | 39.7 | 27.7 | 2.02 | 24.7 | 0.00 | 0.00 | 0.01 | 0.07 | 121 | 210 |
| 125 ISL | 10.00 D | 9.99 | 33.921 D | 26.112 | 191.8 | 0.311 | 2.48 | 39.0 | 27.8 | 2.01 | 24.9 | 0.00 | 0.00 | 0.01 | 0.07 | 126 | |
| 140 | 9.60 | 9.58 | 33.898 | 26.161 | 187.4 | 0.339 | 2.70 | 42.0 | 28.2 | 2.00 | 25.3 | 0.00 | 0.00 | 0.02 | 0.07 | 141 | 209 |
| 150 ISL | 9.58 D | 9.56 | 33.951 D | 26.206 | 183.3 | 0.358 | 2.56 | 39.9 | 28.9 | 2.01 | 25.7 | 0.00 | 0.00 | 0.02 | 0.06 | 151 | |
| 170 | 8.94 | 8.92 | 33.973 | 26.327 | 172.1 | 0.393 | 2.75 | 42.2 | 31.2 | 2.02 | 26.7 | 0.00 | 0.00 | 0.01 | 0.05 | 171 | 208 |
| 200 | 9.08 | 9.06 | 34.146 | 26.440 | 162.0 | 0.443 | 1.85 | 28.5 | 36.6 | 2.29 | 28.7 | 0.00 | 0.00 | 0.00 | 0.06 | 201 | 207 |
| 230 | 8.26 | 8.24 | 34.107 | 26.537 | 153.0 | 0.490 | 1.94 | 29.3 | 41.6 | 2.34 | 30.5 | 0.00 | 0.00 | | 231 | 206 | |
| 250 ISL | 8.07 D | 8.04 | 34.129 D | 26.583 | 148.9 | 0.521 | 1.79 | 27.0 | 44.7 | 2.44 | 31.6 | 0.00 | 0.00 | | 251 | | |
| 270 | 8.04 | 8.01 | 34.180 | 26.628 | 145.0 | 0.550 | 1.41 | 21.2 | 47.5 | 2.55 | 32.5 | 0.00 | 0.00 | | 272 | 205 | |
| 300 ISL | 7.77 D | 7.74 | 34.194 D | 26.679 | 140.6 | 0.593 | 1.21 | 18.1 | 51.3 | 2.68 | 33.7 | 0.00 | 0.00 | | 302 | | |
| 320 | 7.72 | 7.69 | 34.234 | 26.718 | 137.2 | 0.621 | 0.91 | 13.6 | 53.6 | 2.76 | 34.4 | 0.00 | 0.00 | | 322 | 204 | |
| 381 | 7.17 | 7.13 | 34.240 | 26.802 | 129.9 | 0.702 | 0.69 | 10.2 | 60.8 | 2.90 | 36.5 | 0.00 | 0.00 | | 383 | 203 | |
| 400 ISL | 6.98 D | 6.94 | 34.249 D | 26.835 | 126.9 | 0.727 | 0.64 | 9.4 | 63.0 | 2.94 | 37.0 | 0.00 | 0.00 | | 403 | | |
| 442 | 6.74 | 6.70 | 34.276 | 26.890 | 122.2 | 0.779 | 0.48 | 7.0 | 67.9 | 3.03 | 38.1 | 0.00 | 0.00 | | 445 | 202 | |
| 500 ISL | 6.35 D | 6.30 | 34.298 D | 26.959 | 116.1 | 0.848 | 0.39 | 5.6 | 74.7 | 3.15 | 39.5 | 0.00 | 0.00 | | 503 | | |
| 518 | 6.22 | 6.17 | 34.308 | 26.984 | 113.9 | 0.869 | 0.32 | 4.6 | 76.8 | 3.19 | 40.0 | 0.00 | 0.00 | | 522 | 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; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 40.0

| 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 | 14.51 | 14.51 | 33.328 | 24.789 | 314.9 | 0.000 | 5.92 | 102.0 | 1.5 | 0.35 | 0.5 | 0.04 | 0.15 | 0.56 | 0.25 | 0 | |
| 3 | 14.51 | 14.51 | 33.328 | 24.789 | 314.9 | 0.009 | 5.92 | 102.0 | 1.5 | 0.35 | 0.5 | 0.04 | 0.15 | 0.56 | 0.25 | 3 | 221 |
| 10 ISL | 14.30 D | 14.30 | 33.328 D | 24.834 | 310.9 | 0.031 | 5.97 | 102.4 | 1.5 | 0.38 | 0.6 | 0.05 | 0.11 | 0.62 | 0.32 | 10 | |
| 11 | 14.30 | 14.30 | 33.328 | 24.834 | 310.9 | 0.034 | 5.94 | 101.9 | 1.5 | 0.38 | 0.6 | 0.05 | 0.10 | 0.63 | 0.33 | 11 | 219 |
| 11 | 14.30 | 14.30 | 33.326 | 24.832 | 311.1 | 0.034 | | | | | | | | | | 11 | 220 |
| 20 | 14.25 | 14.25 | 33.327 | 24.844 | 310.2 | 0.062 | 5.92 | 101.5 | 1.6 | 0.35 | 0.6 | 0.05 | 0.13 | 0.66 | 0.40 | 20 | 218 |
| 30 | 14.23 | 14.23 | 33.330 | 24.850 | 309.9 | 0.093 | 5.88 | 100.7 | 1.5 | 0.35 | 0.6 | 0.05 | 0.18 | 0.67 | 0.34 | 30 | 217 |
| 41 | 13.89 | 13.88 | 33.317 | 24.911 | 304.4 | 0.127 | 5.68 | 96.6 | 2.4 | 0.48 | 2.1 | 0.10 | 0.36 | 0.54 | 0.28 | 41 | 216 |
| 50 | 12.99 | 12.98 | 33.301 | 25.081 | 288.4 | 0.154 | 5.15 | 86.0 | 6.0 | 0.79 | 7.0 | 0.16 | 0.03 | 0.32 | 0.34 | 50 | 215 |
| 60 | 12.15 | 12.14 | 33.287 | 25.233 | 274.2 | 0.182 | 4.85 | 79.5 | 8.6 | 0.98 | 10.1 | 0.08 | 0.00 | 0.22 | 0.26 | 60 | 214 |
| 70 | 10.83 | 10.82 | 33.313 | 25.494 | 249.4 | 0.208 | 4.50 | 71.7 | 13.3 | 1.26 | 14.9 | 0.02 | 0.00 | 0.08 | 0.16 | 70 | 213 |
| 75 ISL | 10.80 D | 10.79 | 33.319 D | 25.504 | 248.5 | 0.221 | 4.50 | 71.7 | 14.4 | 1.33 | 16.0 | 0.02 | 0.00 | 0.07 | 0.16 | 75 | |
| 85 | 10.33 | 10.32 | 33.388 | 25.640 | 235.8 | 0.245 | 4.24 | 66.9 | 16.0 | 1.41 | 17.5 | 0.01 | 0.00 | 0.05 | 0.16 | 85 | 212 |
| 100 | 10.02 | 10.01 | 33.552 | 25.820 | 218.9 | 0.279 | 3.70 | 58.0 | 19.9 | 1.61 | 20.7 | 0.00 | 0.00 | 0.03 | 0.11 | 100 | 211 |
| 120 | 9.56 | 9.55 | 33.740 | 26.044 | 198.0 | 0.321 | 3.13 | 48.7 | 25.1 | 1.84 | 24.1 | 0.00 | 0.00 | 0.01 | 0.08 | 121 | 210 |
| 125 ISL | 9.54 D | 9.53 | 33.760 D | 26.063 | 196.3 | 0.331 | 3.10 | 48.2 | 26.2 | 1.88 | 24.7 | 0.00 | 0.00 | 0.01 | 0.08 | 126 | |
| 140 | 9.26 | 9.24 | 33.896 | 26.215 | 182.2 | 0.359 | 2.69 | 41.6 | 29.1 | 1.99 | 26.3 | 0.00 | 0.00 | 0.01 | 0.07 | 141 | 209 |
| 150 ISL | 9.00 D | 8.98 | 33.966 D | 26.311 | 173.1 | 0.377 | 2.56 | 39.4 | 31.0 | 2.05 | 27.1 | 0.00 | 0.00 | 0.01 | 0.07 | 151 | |
| 170 | 8.79 | 8.77 | 34.016 | 26.384 | 166.6 | 0.411 | 2.31 | 35.4 | 34.3 | 2.14 | 28.3 | 0.00 | 0.00 | 0.01 | 0.06 | 171 | 208 |
| 200 | 8.57 | 8.55 | 34.079 | 26.468 | 159.2 | 0.460 | 2.01 | 30.6 | 38.0 | 2.25 | 29.6 | 0.00 | 0.00 | 0.01 | 0.05 | 201 | 207 |
| 231 | 8.18 | 8.16 | 34.117 | 26.557 | 151.1 | 0.508 | 1.73 | 26.1 | 43.2 | 2.40 | 31.5 | 0.00 | 0.00 | | 232 | 206 | |
| 250 ISL | 7.98 D | 7.95 | 34.138 D | 26.604 | 146.9 | 0.536 | 1.51 | 22.7 | 46.4 | 2.48 | 32.5 | 0.00 | 0.00 | | 251 | | |
| 271 | 7.76 | 7.73 | 34.155 | 26.650 | 142.8 | 0.566 | 1.34 | 20.0 | 49.7 | 2.57 | 33.5 | 0.00 | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 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 | 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 | 14.42 | 14.42 | 33.337 | 24.815 | 312.4 | 0.000 | 6.19 | 106.5 | 0.1 | 0.29 | 0.0 | 0.00 | 0.04 | 2.55 | 0.18 | 0 | |
| 2 | 14.42 | 14.42 | 33.337 | 24.815 | 312.4 | 0.006 | 6.19 | 106.5 | 0.1 | 0.29 | 0.0 | 0.00 | 0.04 | 2.55 | 0.18 | 2 220 | |
| 10 | 14.42 | 14.42 | 33.337 | 24.815 | 312.7 | 0.031 | 6.19 | 106.5 | 0.1 | 0.30 | 0.0 | 0.00 | 0.07 | 2.54 | 0.25 | 10 219 | |
| 20 | 14.41 | 14.41 | 33.341 | 24.821 | 312.4 | 0.063 | 6.17 | 106.1 | 0.2 | 0.27 | 0.0 | 0.00 | 0.05 | 2.55 | 0.38 | 20 218 | |
| 30 | 14.35 | 14.35 | 33.336 | 24.830 | 311.8 | 0.094 | 6.08 | 104.4 | 0.3 | 0.29 | 0.0 | 0.00 | 0.00 | 3.21 | 0.28 | 30 217 | |
| 40 | 13.30 | 13.29 | 33.305 | 25.022 | 293.8 | 0.124 | 5.33 | 89.6 | 4.8 | 0.75 | 5.2 | 0.20 | 0.26 | 1.41 | 0.54 | 40 216 | |
| 50 | 11.79 | 11.78 | 33.290 | 25.302 | 267.3 | 0.152 | 4.68 | 76.2 | 10.0 | 1.16 | 12.0 | 0.05 | 0.00 | 0.47 | 0.47 | 50 215 | |
| 60 | 10.61 | 10.60 | 33.381 | 25.585 | 240.5 | 0.177 | 4.25 | 67.5 | 15.2 | 1.40 | 16.8 | 0.01 | 0.00 | 0.12 | 0.20 | 60 214 | |
| 71 | 10.38 | 10.37 | 33.451 | 25.680 | 231.7 | 0.203 | 4.02 | 63.5 | 17.1 | 1.51 | 18.5 | 0.01 | 0.00 | 0.13 | 0.30 | 71 213 | |
| 75 ISL | 10.33 D | 10.32 | 33.456 D | 25.692 | 230.6 | 0.213 | 4.00 D | 63.1 | 18.8 | 1.59 | 19.8 | 0.01 | 0.00 | 0.11 | 0.27 | 75 | |
| 85 | 9.80 | 9.79 | 33.665 | 25.945 | 206.7 | 0.235 | 3.33 | 52.0 | 22.9 | 1.78 | 22.8 | 0.00 | 0.00 | 0.05 | 0.15 | 85 212 | |
| 100 | 9.73 | 9.72 | 33.699 | 25.984 | 203.4 | 0.265 | 3.22 | 50.2 | 23.8 | 1.81 | 23.4 | 0.00 | 0.00 | 0.05 | 0.13 | 100 211 | |
| 120 | 9.29 | 9.28 | 33.881 | 26.198 | 183.4 | 0.304 | 2.71 | 41.9 | 28.9 | 2.01 | 26.1 | 0.00 | 0.00 | 0.03 | 0.08 | 121 210 | |
| 125 ISL | 9.26 D | 9.25 | 33.896 D | 26.215 | 181.9 | 0.313 | 2.71 D | 41.9 | 30.1 | 2.05 | 26.6 | 0.00 | 0.00 | 0.02 | 0.08 | 126 | |
| 141 | 8.96 | 8.94 | 34.005 | 26.348 | 169.5 | 0.341 | 2.31 | 35.5 | 33.6 | 2.14 | 27.9 | 0.00 | 0.00 | 0.01 | 0.07 | 142 209 | |
| 150 ISL | 8.91 D | 8.89 | 34.029 D | 26.375 | 167.1 | 0.356 | 2.24 D | 34.4 | 34.7 | 2.18 | 28.3 | 0.00 | 0.00 | 0.02 | 0.07 | 151 | |
| 171 | 8.78 | 8.76 | 34.089 | 26.443 | 161.1 | 0.391 | 1.99 | 30.5 | 37.0 | 2.27 | 29.1 | 0.00 | 0.00 | 0.04 | 0.08 | 172 208 | |
| 200 | 8.36 | 8.34 | 34.141 | 26.549 | 151.4 | 0.436 | 1.59 | 24.1 | 42.7 | 2.44 | 31.2 | 0.00 | 0.00 | 0.02 | 0.06 | 201 207 | |
| 230 | 8.19 | 8.17 | 34.150 | 26.582 | 148.8 | 0.481 | 1.47 | 22.2 | 44.9 | 2.50 | 31.9 | 0.00 | 0.00 | | | 231 206 | |
| 250 ISL | 8.03 D | 8.00 | 34.162 D | 26.615 | 145.9 | 0.511 | 1.37 D | 20.6 | 47.3 | 2.57 | 32.7 | 0.00 | 0.00 | | | 251 | |
| 269 | 7.84 | 7.81 | 34.183 | 26.660 | 141.9 | 0.538 | 1.19 | 17.8 | 50.0 | 2.64 | 33.6 | 0.00 | 0.00 | | | 271 205 | |
| 300 ISL | 7.44 D | 7.41 | 34.199 D | 26.731 | 135.5 | 0.581 | 0.98 D | 14.6 | 54.9 | 2.74 | 34.9 | 0.00 | 0.00 | | | 302 | |
| 320 | 7.28 | 7.25 | 34.212 | 26.764 | 132.6 | 0.608 | 0.88 | 13.0 | 57.9 | 2.79 | 35.6 | 0.00 | 0.00 | | | 322 204 | |
| 381 | 6.94 | 6.90 | 34.241 | 26.834 | 126.7 | 0.687 | 0.66 | 9.7 | 63.3 | 2.92 | 36.9 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 6.88 D | 6.84 | 34.239 D | 26.841 | 126.3 | 0.711 | 0.65 D | 9.5 | 65.2 | 2.95 | 37.4 | 0.00 | 0.00 | | | 403 | |
| 439 | 6.57 | 6.53 | 34.267 | 26.905 | 120.6 | 0.759 | 0.48 | 7.0 | 69.5 | 3.01 | 38.3 | 0.00 | 0.00 | | | 442 202 | |
| 500 ISL | 6.25 D | 6.21 | 34.309 D | 26.981 | 114.0 | 0.831 | 0.32 D | 4.6 | 76.7 | 3.18 | 39.6 | 0.00 | 0.47 | | | 503 | |
| 516 | 6.11 | 6.06 | 34.321 | 27.008 | 111.5 | 0.849 | 0.29 | 4.2 | 78.6 | 3.23 | 40.0 | 0.00 | 0.59 | | | 520 201 | |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | ug/l | ug/l | db | | |
| 0 ISL | 13.79 | 13.79 | 33.355 | 24.960 | 298.6 | 0.000 | 6.15 | 104.4 | 0.8 | 0.33 | 1.2 | 0.05 | 0.03 | 2.17 | 0.35 | 0 | |
| 2 | 13.79 | 13.79 | 33.355 | 24.960 | 298.6 | 0.006 | 6.15 | 104.4 | 0.8 | 0.33 | 1.2 | 0.05 | 0.03 | 2.17 | 0.35 | 2 220 | |
| 10 | 13.79 | 13.79 | 33.355 | 24.960 | 298.8 | 0.030 | 6.13 | 104.1 | 0.8 | 0.34 | 1.2 | 0.05 | 0.02 | 2.14 | 0.38 | 10 219 | |
| 20 ISL | 13.06 D | 13.06 | 33.377 D | 25.125 | 283.4 | 0.059 | 6.07 D | 101.5 | 2.9 | 0.55 | 3.9 | 0.12 | 0.25 | 2.22 | 0.52 | 20 | |
| 21 | 13.02 | 13.02 | 33.379 | 25.135 | 282.5 | 0.062 | 5.98 | 99.9 | 3.2 | 0.58 | 4.3 | 0.13 | 0.28 | 2.23 | 0.54 | 21 218 | |
| 30 | 12.55 | 12.55 | 33.392 | 25.237 | 273.0 | 0.087 | 5.41 | 89.5 | 6.7 | 0.89 | 7.7 | 0.25 | 0.46 | 2.11 | 0.60 | 30 217 | |
| 40 | 11.79 | 11.78 | 33.434 | 25.414 | 256.4 | 0.113 | 4.49 | 73.1 | 12.0 | 1.22 | 13.5 | 0.29 | 0.00 | 0.33 | 0.27 | 40 216 | |
| 50 | 11.40 | 11.39 | 33.459 | 25.505 | 247.9 | 0.139 | 4.23 | 68.3 | 13.9 | 1.35 | 15.5 | 0.17 | 0.00 | 0.22 | 0.23 | 50 215 | |
| 61 | 10.70 | 10.69 | 33.531 | 25.686 | 230.9 | 0.165 | 3.75 | 59.7 | 18.0 | 1.57 | 19.0 | 0.06 | 0.00 | 0.10 | 0.18 | 61 214 | |
| 70 | 10.32 | 10.31 | 33.585 | 25.795 | 220.8 | 0.185 | 3.51 | 55.4 | 20.4 | 1.68 | 20.9 | 0.02 | 0.00 | 0.05 | 0.15 | 70 213 | |
| 75 ISL | 9.96 D | 9.95 | 33.658 D | 25.913 | 209.6 | 0.196 | 3.39 D | 53.1 | 21.7 | 1.73 | 21.8 | 0.01 | 0.00 | 0.04 | 0.14 | 75 | |
| 86 | 9.77 | 9.76 | 33.732 | 26.002 | 201.3 | 0.219 | 3.08 | 48.1 | 24.9 | 1.85 | 23.8 | 0.00 | 0.00 | 0.02 | 0.11 | 86 212 | |
| 100 | 9.28 | 9.27 | 33.934 | 26.241 | 178.9 | 0.245 | 2.55 | 39.4 | 30.5 | 2.05 | 26.7 | 0.00 | 0.00 | 0.01 | 0.05 | 101 211 | |
| 120 | 9.09 | 9.08 | 34.004 | 26.326 | 171.2 | 0.280 | 2.37 | 36.5 | 32.8 | 2.12 | 27.6 | 0.00 | 0.00 | 0.01 | 0.12 | 121 210 | |
| 125 ISL | 9.05 D | 9.04 | 34.011 D | 26.338 | 170.1 | 0.289 | 2.40 D | 36.9 | 33.3 | 2.13 | 27.8 | 0.00 | 0.00 | 0.01 | 0.11 | 126 | |
| 141 | 8.85 | 8.83 | 34.043 | 26.395 | 165.0 | 0.315 | 2.26 | 34.6 | 35.0 | 2.17 | 28.4 | 0.00 | 0.00 | 0.00 | 0.05 | 142 209 | |
| 150 ISL | 8.74 D | 8.72 | 34.060 D | 26.426 | 162.2 | 0.330 | 2.22 D | 33.9 | 36.2 | 2.21 | 28.8 | 0.00 | 0.00 | 0.00 | 0.05 | 151 | |
| 170 | 8.55 | 8.53 | 34.095 | 26.483 | 157.1 | 0.362 | 1.96 | 29.8 | 39.0 | 2.29 | 29.8 | 0.00 | 0.00 | 0.01 | 0.05 | 171 208 | |
| 200 | 8.23 | 8.21 | 34.118 | 26.550 | 151.2 | 0.408 | 1.75 | 26.5 | 42.3 | 2.38 | 31.0 | 0.00 | 0.00 | 0.00 | 0.05 | 201 207 | |
| 231 | 8.03 | 8.01 | 34.137 | 26.595 | 147.4 | 0.455 | 1.54 | 23.2 | 46.1 | 2.47 | 32.2 | 0.00 | 0.00 | | | 232 206 | |
| 250 ISL | 7.77 D | 7.75 | 34.157 D | 26.650 | 142.5 | 0.482 | 1.36 D | 20.4 | 49.0 | 2.53 | 33.0 | 0.00 | 0.00 | | | 252 | |
| 270 | 7.59 | 7.56 | 34.159 | 26.677 | 140.1 | 0.510 | 1.26 | 18.8 | 52.0 | 2.61 | 33.9 | 0.00 | 0.00 | | | 272 205 | |
| 300 ISL | 7.46 D | 7.43 | 34.205 D | 26.732 | 135.3 | 0.552 | 0.97 D | 14.4 | 56.0 | 2.75 | 35.1 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.31 | 7.28 | 34.229 | 26.773 | 131.8 | 0.580 | 0.77 | 11.4 | 58.4 | 2.84 | 35.8 | 0.00 | 0.00 | | | 323 204 | |
| 381 | 7.02 | 6.98 | 34.257 | 26.836 | 126.6 | 0.657 | 0.58 | 8.5 | 63.5 | 2.96 | 37.0 | 0.00 | 0.00 | | | 383 203 | |
| 400 ISL | 6.84 D | 6.80 | 34.273 D | 26.873 | 123.2 | 0.681 | 0.48 D | 7.0 | 66.3 | 3.00 | 37.6 | 0.00 | 0.00 | | | 403 | |
| 440 | 6.49 | 6.45 | 34.289 | 26.933 | 117.8 | 0.729 | 0.39 | 5.7 | 72.4 | 3.08 | 38.8 | 0.00 | 0.00 | | | 443 202 | |
| 500 ISL | 6.17 D | 6.13 | 34.311 D | 26.992 | 112.8 | 0.798 | 0.30 D | 4.3 | 77.9 | 3.15 | 39.7 | 0.00 | 0.00 | | | 503 | |
| 517 | 6.10 | 6.05 | 34.318 | 27.007 | 111.6 | 0.818 | 0.27 | 3.9 | 79.5 | 3.17 | 40.0 | 0.00 | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | 12.52 | 12.52 | 33.315 | 25.182 | 277.4 | 0.000 | 5.90 | 97.5 | 5.9 | 0.72 | 6.0 | 0.30 | 0.18 | 0.34 | 0.15 | 0 | |
| 2 | 12.52 | 12.52 | 33.315 | 25.182 | 277.5 | 0.006 | 5.90 | 97.5 | 5.9 | 0.72 | 6.0 | 0.30 | 0.18 | 0.34 | 0.15 | 2 | |
| 9 | 12.52 | 12.52 | 33.319 | 25.185 | 277.4 | 0.025 | | | | | | | | | | 9 | |
| 10 | 12.52 | 12.52 | 33.315 | 25.182 | 277.7 | 0.028 | 5.91 | 97.7 | 5.9 | 0.72 | 6.0 | 0.30 | 0.17 | 0.35 | 0.16 | 10 | |
| 20 | 12.52 | 12.52 | 33.318 | 25.185 | 277.7 | 0.056 | 5.90 | 97.5 | 6.1 | 0.72 | 6.0 | 0.30 | 0.17 | 0.35 | 0.17 | 20 | |
| 30 | 12.43 | 12.43 | 33.327 | 25.209 | 275.6 | 0.083 | 5.75 | 94.9 | 6.4 | 0.78 | 6.7 | 0.36 | 0.16 | 0.34 | 0.25 | 30 | |
| 41 | 11.92 | 11.91 | 33.407 | 25.369 | 260.7 | 0.113 | 4.98 | 81.3 | 9.9 | 1.04 | 11.0 | 0.41 | 0.00 | 0.27 | 0.26 | 41 | |
| 50 | 11.45 | 11.44 | 33.443 | 25.484 | 250.0 | 0.136 | 4.61 | 74.5 | 12.7 | 1.18 | 13.5 | 0.18 | 0.00 | 0.17 | 0.22 | 50 | |
| 60 | 11.15 | 11.14 | 33.459 | 25.551 | 243.8 | 0.160 | 4.42 | 71.0 | 14.2 | 1.28 | 15.1 | 0.10 | 0.00 | 0.13 | 0.19 | 60 | |
| 70 | 10.82 | 10.81 | 33.501 | 25.642 | 235.3 | 0.184 | 4.13 | 65.9 | 16.4 | 1.41 | 16.9 | 0.05 | 0.00 | 0.09 | 0.19 | 70 | |
| 75 ISL | 10.64 D | 10.63 | 33.547 D | 25.710 | 229.0 | 0.196 | 3.90 D | 62.0 | 18.1 | 1.49 | 18.3 | 0.04 | 0.00 | 0.07 | 0.17 | 75 | |
| 85 | 10.24 | 10.23 | 33.628 | 25.842 | 216.6 | 0.218 | 3.41 | 53.8 | 21.8 | 1.66 | 21.1 | 0.02 | 0.00 | 0.03 | 0.13 | 85 | |
| 100 | 9.83 | 9.82 | 33.738 | 25.997 | 202.1 | 0.250 | 2.99 | 46.8 | 25.6 | 1.82 | 23.6 | 0.01 | 0.00 | 0.01 | 0.13 | 101 | |
| 120 | 9.49 | 9.48 | 33.900 | 26.180 | 185.1 | 0.288 | 2.43 | 37.8 | 30.3 | 2.02 | 26.4 | 0.00 | 0.00 | 0.01 | 0.10 | 121 | |
| 125 ISL | 9.35 D | 9.34 | 33.957 D | 26.248 | 178.8 | 0.297 | 2.26 D | 35.0 | 31.2 | 2.06 | 26.9 | 0.00 | 0.00 | 0.01 | 0.09 | 126 | |
| 142 | 9.26 | 9.24 | 34.022 | 26.313 | 172.9 | 0.327 | 2.03 | 31.4 | 33.8 | 2.16 | 28.0 | 0.00 | 0.00 | 0.00 | 0.08 | 143 | |
| 150 ISL | 9.19 D | 9.17 | 34.039 D | 26.338 | 170.7 | 0.341 | 2.04 D | 31.5 | 34.7 | 2.19 | 28.4 | 0.00 | 0.00 | 0.00 | 0.08 | 151 | |
| 171 | 9.03 | 9.01 | 34.086 | 26.401 | 165.1 | 0.376 | 1.77 | 27.2 | 36.9 | 2.25 | 29.2 | 0.00 | 0.00 | 0.00 | 0.07 | 172 | |
| 200 ISL | 8.76 D | 8.74 | 34.136 D | 26.483 | 157.8 | 0.423 | 1.53 D | 23.4 | 40.5 | 2.36 | 30.4 | 0.00 | 0.00 | 0.00 | 0.07 | 201 | |
| 202 | 8.77 | 8.75 | 34.144 | 26.488 | 157.4 | 0.426 | 1.47 | 22.5 | 40.8 | 2.37 | 30.5 | 0.00 | 0.00 | 0.00 | 0.07 | 203 | |
| 232 | 8.29 | 8.27 | 34.159 | 26.574 | 149.6 | 0.472 | 1.41 | 21.4 | 44.4 | 2.44 | 31.8 | 0.00 | 0.00 | | | 233 | |
| 250 ISL | 8.16 D | 8.13 | 34.183 D | 26.612 | 146.2 | 0.499 | 1.29 D | 19.5 | 46.5 | 2.50 | 32.4 | 0.00 | 0.00 | | | 251 | |
| 272 | 8.01 | 7.98 | 34.197 | 26.646 | 143.4 | 0.531 | 1.12 | 16.9 | 49.2 | 2.57 | 33.1 | 0.00 | 0.00 | | | 274 | |
| 300 ISL | 7.80 D | 7.77 | 34.229 D | 26.702 | 138.4 | 0.570 | 0.89 D | 13.3 | 52.8 | 2.66 | 34.1 | 0.00 | 0.00 | | | 302 | |
| 316 | 7.67 | 7.64 | 34.234 | 26.725 | 136.4 | 0.592 | 0.87 | 13.0 | 54.8 | 2.71 | 34.7 | 0.00 | 0.00 | | | 318 | |
| 380 | 7.08 | 7.04 | 34.251 | 26.823 | 127.8 | 0.677 | 0.67 | 9.9 | 62.3 | 2.84 | 36.5 | 0.00 | 0.00 | | | 382 | |
| 400 ISL | 6.91 D | 6.87 | 34.268 D | 26.860 | 124.5 | 0.702 | 0.54 D | 7.9 | 64.9 | 2.89 | 37.1 | 0.00 | 0.00 | | | 403 | |
| 440 | 6.62 | 6.58 | 34.284 | 26.912 | 120.0 | 0.751 | 0.42 | 6.1 | 70.1 | 2.99 | 38.3 | 0.00 | 0.00 | | | 443 | |
| 500 ISL | 6.21 D | 6.17 | 34.309 D | 26.986 | 113.5 | 0.821 | 0.34 D | 4.9 | 77.8 | 3.07 | 39.7 | 0.00 | 0.00 | | | 503 | |
| 517 | 6.05 | 6.00 | 34.319 | 27.014 | 110.8 | 0.840 | 0.27 | 3.9 | 80.0 | 3.09 | 40.1 | 0.00 | 0.00 | | | 521 | |
| D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02'; | | | | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 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 | 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 | uM/l | uM/l | ug/l | ug/l | db | | |
| 0 ISL | 13.05 | 13.05 | 33.346 | 25.102 | 285.0 | 0.000 | 5.85 | 97.8 | 4.3 | 0.65 | 4.7 | 0.33 | 0.22 | 0.51 | 0.31 | 0 | |
| 3 A | 13.05 | 13.05 | 33.346 | 25.103 | 285.1 | 0.009 | 5.85 | 97.8 | 4.3 | 0.65 | 4.7 | 0.33 | 0.22 | 0.51 | 0.31 | 3 | |
| 10 ISL | 13.02 D | 13.02 | 33.346 D | 25.109 | 284.7 | 0.028 | 5.87 | 98.1 | 4.3 | 0.63 | 4.7 | 0.33 | 0.20 | 0.52 | 0.33 | 10 | |
| 11 A | 13.02 | 13.02 | 33.345 | 25.108 | 284.8 | 0.031 | 5.87 | 98.1 | 4.3 | 0.63 | 4.7 | 0.33 | 0.20 | 0.52 | 0.33 | 11 | |
| 12 A | 13.03 | 13.03 | 33.345 | 25.106 | 285.0 | 0.034 | 5.85 | 97.8 | 4.3 | 0.64 | 4.7 | 0.33 | 0.21 | 0.48 | 0.29 | 12 | |
| 17 A | 13.02 | 13.02 | 33.347 | 25.110 | 284.8 | 0.048 | 5.86 | 97.9 | 4.3 | 0.64 | 4.7 | 0.33 | 0.21 | 0.49 | 0.35 | 17 | |
| 20 ISL | 13.01 D | 13.01 | 33.346 D | 25.111 | 284.8 | 0.057 | 5.93 D | 99.1 | 4.3 | 0.64 | 4.7 | 0.33 | 0.21 | 0.49 | 0.35 | 20 | |
| 25 A | 13.01 | 13.01 | 33.346 | 25.111 | 284.9 | 0.071 | 5.86 | 97.9 | 4.3 | 0.64 | 4.8 | 0.33 | 0.20 | 0.49 | 0.34 | 25 | |
| 30 ISL | 13.01 D | 13.01 | 33.346 D | 25.111 | 285.0 | 0.085 | 5.92 D | 98.9 | 4.3 | 0.64 | 4.8 | 0.33 | 0.20 | 0.52 | 0.37 | 30 | |
| 34 | 13.01 | 13.01 | 33.349 | 25.114 | 284.9 | 0.097 | 5.84 | 97.6 | 4.3 | 0.64 | 4.8 | 0.33 | 0.20 | 0.53 | 0.38 | 34 | |
| 43 | 12.83 | 12.82 | 33.344 | 25.145 | 282.1 | 0.122 | 5.69 | 94.7 | 4.8 | 0.69 | 5.6 | 0.31 | 0.17 | 0.40 | 0.31 | 43 | |
| 50 ISL | 12.20 D | 12.19 | 33.340 D | 25.264 | 270.9 | 0.142 | 5.14 D | 84.4 | 7.0 | 0.89 | 9.0 | 0.12 | 0.04 | 0.20 | 0.29 | 50 | |
| 52 A | 12.13 | 12.12 | 33.341 | 25.278 | 269.6 | 0.147 | 5.07 | 83.1 | 7.8 | 0.96 | 10.1 | 0.07 | 0.00 | 0.14 | 0.29 | 52 | |
| 61 | 11.49 | 11.48 | 33.393 | 25.438 | 254.4 | 0.171 | 4.43 | 71.7 | 12.0 | 1.21 | 13.9 | 0.03 | 0.00 | 0.07 | 0.13 | 61 | |
| 69 | 11.11 | 11.10 | 33.431 | 25.536 | 245.4 | 0.191 | 4.32 | 69.3 | 14.3 | 1.33 | 15.9 | 0.03 | 0.00 | 0.05 | 0.13 | 69 | |
| 75 ISL | 10.75 D | 10.74 | 33.468 D | 25.629 | 236.7 | 0.205 | 3.98 D | 63.4 | 16.9 | 1.46 | 18.1 | 0.03 | 0.00 | 0.04 | 0.12 | 75 | |
| 85 | 10.13 | 10.12 | 33.569 | 25.815 | 219.2 | 0.228 | 3.51 | 55.2 | 20.8 | 1.65 | 21.3 | 0.02 | 0.00 | 0.02 | 0.10 | 85 | |
| 100 | 9.96 | 9.95 | 33.637 | 25.897 | 211.7 | 0.260 | 3.29 | 51.6 | 22.5 | 1.72 | 22.4 | 0.01 | 0.00 | 0.02 | 0.10 | 100 | |
| 120 | 9.57 | 9.56 | 33.848 | 26.127 | 190.2 | 0.300 | 2.66 | 41.4 | 27.8 | 1.93 | 25.5 | 0.01 | 0.00 | 0.01 | 0.08 | 121 | |
| 125 ISL | 9.47 D | 9.46 | 33.859 D | 26.152 | 187.9 | 0.310 | 2.75 D | 42.7 | 28.4 | 1.94 | 25.8 | 0.01 | 0.00 | 0.01 | 0.07 | 126 | |
| 140 | 9.27 | 9.25 | 33.929 | 26.239 | 179.9 | 0.338 | 2.54 | 39.3 | 29.9 | 1.97 | 26.5 | 0.00 | 0.00 | 0.02 | 0.06 | 141 | |
| 150 ISL | 9.05 D | 9.03 | 33.970 D | 26.307 | 173.6 | 0.355 | 2.39 D | 36.8 | 32.0 | 2.04 | 27.4 | 0.00 | 0.00 | 0.02 | 0.05 | 151 | |
| 170 | 8.82 | 8.80 | 34.079 | 26.428 | 162.4 | 0.389 | 1.95 | 29.9 | 36.5 | 2.18 | 29.1 | 0.00 | 0.00 | 0.01 | 0.04 | 171 | |
| 200 | 8.57 | 8.55 | 34.128 | 26.506 | 155.5 | 0.436 | 1.66 | 25.3 | 40.2 | 2.29 | 30.4 | 0.00 | 0.00 | 0.00 | 0.05 | 201 | |
| 231 | 8.23 | 8.21 | 34.152 | 26.577 | 149.2 | 0.484 | 1.45 | 21.9 | 44.3 | 2.39 | 31.8 | 0.00 | 0.00 | | | 232 | |
| 250 ISL | 8.00 D | 7.97 | 34.184 D | 26.637 | 143.8 | 0.512 | 1.25 D | 18.8 | 47.1 | 2.48 | 32.7 | 0.00 | 0.00 | | | 251 | |
| 271 | 7.84 | 7.81 | 34.200 | 26.673 | 140.6 | 0.541 | 1.07 | 16.0 | 50.3 | 2.58 | 33.7 | 0.00 | 0.0 | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 15.0 W | 15/01/11 | 0049 | UTC | 3945 m | 280 | 14 kn | 350 06 04 | 0 | 1018.7 mb | 15.0 C | 13.2 C | 0/8 | | | |
| 0 ISL | 14.15 | 14.15 | 32.876 | 24.516 | 340.9 | 0.000 | 5.93 | 101.1 | 2.0 | 0.31 | 0.1 | 0.02 | 0.00 | 0.70 | 0.21 | 0 |
| 2 | 14.15 | 14.15 | 32.876 | 24.516 | 340.9 | 0.007 | 5.93 | 101.1 | 2.0 | 0.31 | 0.1 | 0.02 | 0.00 | 0.70 | 0.21 | 2 220 |
| 10 | 14.16 | 14.16 | 32.876 | 24.514 | 341.3 | 0.034 | 6.00 | 102.4 | 2.0 | 0.30 | 0.1 | 0.02 | 0.00 | 0.68 | 0.21 | 10 219 |
| 20 | 14.15 | 14.15 | 32.885 | 24.523 | 340.7 | 0.068 | 6.00 | 102.3 | 1.9 | 0.31 | 0.1 | 0.02 | 0.00 | 0.72 | 0.22 | 20 218 |
| 30 | 14.04 | 14.04 | 32.939 | 24.588 | 334.8 | 0.102 | 5.97 | 101.6 | 2.1 | 0.32 | 0.3 | 0.04 | 0.00 | 0.76 | 0.22 | 30 217 |
| 41 | 13.89 | 13.88 | 33.043 | 24.700 | 324.5 | 0.138 | 5.95 | 101.0 | 2.3 | 0.35 | 0.7 | 0.10 | 0.00 | 0.67 | 0.23 | 41 216 |
| 50 | 13.86 | 13.85 | 33.046 | 24.708 | 323.9 | 0.167 | 5.85 | 99.3 | 2.5 | 0.39 | 1.0 | 0.19 | 0.04 | 0.42 | 0.23 | 50 215 |
| 60 | 13.34 | 13.33 | 33.019 | 24.793 | 316.1 | 0.199 | 5.71 | 95.8 | 3.0 | 0.43 | 1.6 | 0.18 | 0.00 | 0.23 | 0.21 | 60 214 |
| 70 | 12.29 | 12.28 | 33.010 | 24.991 | 297.3 | 0.230 | 5.60 | 91.9 | 4.0 | 0.51 | 2.9 | 0.01 | 0.00 | 0.15 | 0.16 | 70 213 |
| 75 ISL | 11.94 D | 11.93 | 33.015 D | 25.061 | 290.8 | 0.245 | 5.60 D | 91.3 | 4.5 | 0.57 | 3.9 | 0.04 | 0.00 | 0.15 | 0.16 | 75 |
| 85 | 11.86 | 11.85 | 33.123 | 25.160 | 281.6 | 0.273 | 5.43 | 88.4 | 6.0 | 0.74 | 6.6 | 0.15 | 0.00 | 0.14 | 0.16 | 85 212 |
| 99 | 11.51 | 11.50 | 33.286 | 25.352 | 263.7 | 0.312 | 5.03 | 81.4 | 9.4 | 1.04 | 11.2 | 0.13 | 0.00 | 0.09 | 0.13 | 99 211 |
| 100 ISL | 11.32 D | 11.31 | 33.281 D | 25.382 | 260.8 | 0.314 | 5.04 D | 81.2 | 9.7 | 1.06 | 11.5 | 0.12 | 0.00 | 0.09 | 0.13 | 100 |
| 120 | 10.05 | 10.04 | 33.403 | 25.699 | 230.8 | 0.363 | 4.15 | 65.1 | 17.3 | 1.49 | 18.2 | 0.00 | 0.00 | 0.03 | 0.08 | 121 210 |
| 125 ISL | 9.91 D | 9.90 | 33.489 D | 25.790 | 222.3 | 0.375 | 3.93 D | 61.5 | 19.2 | 1.59 | 19.8 | 0.00 | 0.00 | 0.02 | 0.08 | 126 |
| 141 | 9.74 | 9.72 | 33.688 | 25.974 | 205.2 | 0.409 | 3.14 | 49.0 | 24.2 | 1.84 | 23.7 | 0.00 | 0.00 | 0.01 | 0.09 | 142 209 |
| 150 ISL | 9.59 D | 9.57 | 33.770 D | 26.063 | 196.9 | 0.427 | 2.98 D | 46.4 | 25.3 | 1.84 | 24.0 | 0.00 | 0.00 | 0.01 | 0.07 | 151 |
| 170 | 9.15 | 9.13 | 33.842 | 26.191 | 185.0 | 0.465 | 3.15 | 48.5 | 26.7 | 1.83 | 24.8 | 0.00 | 0.00 | 0.00 | 0.03 | 171 208 |
| 200 | 8.70 | 8.68 | 33.971 | 26.363 | 169.1 | 0.518 | 2.75 | 42.0 | 32.1 | 1.98 | 27.2 | 0.00 | 0.00 | 0.00 | 0.03 | 201 207 |
| 230 | 8.29 | 8.27 | 34.054 | 26.491 | 157.4 | 0.567 | 2.11 | 31.9 | 38.7 | 2.21 | 30.1 | 0.00 | 0.00 | | | 231 206 |
| 250 ISL | 8.08 D | 8.05 | 34.091 D | 26.552 | 151.9 | 0.598 | 1.99 D | 30.0 | 42.5 | 2.34 | 31.1 | 0.00 | 0.00 | | | 251 |
| 271 | 7.96 | 7.93 | 34.149 | 26.616 | 146.2 | 0.630 | 1.57 | 23.6 | 46.1 | 2.45 | 31.9 | 0.00 | 0.00 | | | 273 205 |
| 300 ISL | 7.46 D | 7.43 | 34.129 D | 26.673 | 141.0 | 0.671 | 1.52 D | 22.6 | 50.7 | 2.54 | 33.5 | 0.00 | 0.00 | | | 302 |
| 320 | 7.21 | 7.18 | 34.124 | 26.704 | 138.2 | 0.699 | 1.35 | 19.9 | 53.8 | 2.59 | 34.7 | 0.00 | 0.00 | | | 322 204 |
| 380 | 6.60 | 6.57 | 34.166 | 26.821 | 127.6 | 0.779 | 0.84 | 12.2 | 64.2 | 2.84 | 37.6 | 0.00 | 0.00 | | | 382 203 |
| 400 ISL | 6.43 D | 6.39 | 34.173 D | 26.849 | 125.1 | 0.804 | 0.87 D | 12.6 | 67.1 | 2.89 | 38.3 | 0.00 | 0.00 | | | 402 |
| 441 | 6.15 | 6.11 | 34.207 | 26.912 | 119.5 | 0.854 | 0.60 | 8.6 | 72.4 | 2.98 | 39.3 | 0.00 | 0.00 | | | 444 202 |
| 500 ISL | 5.75 D | 5.71 | 34.242 D | 26.990 | 112.5 | 0.923 | 0.47 D | 6.7 | 79.0 | 3.06 | 40.5 | 0.00 | 0.00 | | | 503 |
| 522 | 5.71 | 5.67 | 34.259 | 27.009 | 110.9 | 0.947 | 0.36 | 5.1 | 81.5 | 3.09 | 40.9 | 0.00 | 0.00 | | | 525 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 10.6 N | 120 55.6 W | 15/01/11 | 0830 | UTC | 3828 m | 290 | 17 kn | 350 06 04 | 0 | 1019.4 mb | 15.1 C | 13.8 C | 0/8 | | | |
| 0 ISL | 14.82 | 14.82 | 33.213 | 24.634 | 329.6 | 0.000 | 5.79 | 100.3 | 1.7 | 0.32 | 0.1 | 0.01 | 0.00 | 0.57 | 0.19 | 0 |
| 3 | 14.82 | 14.82 | 33.213 | 24.634 | 329.7 | 0.010 | 5.79 | 100.3 | 1.7 | 0.32 | 0.1 | 0.01 | 0.00 | 0.57 | 0.19 | 3 220 |
| 10 | 14.83 | 14.83 | 33.208 | 24.628 | 330.5 | 0.033 | 5.86 | 101.5 | 1.6 | 0.32 | 0.1 | 0.01 | 0.00 | 0.57 | 0.18 | 10 219 |
| 19 | 14.82 | 14.82 | 33.208 | 24.631 | 330.5 | 0.063 | 5.86 | 101.5 | 1.6 | 0.32 | 0.1 | 0.01 | 0.00 | 0.55 | 0.23 | 19 218 |
| 20 ISL | 14.83 D | 14.83 | 33.208 D | 24.629 | 330.7 | 0.066 | 5.90 D | 102.2 | 1.6 | 0.32 | 0.1 | 0.01 | 0.00 | 0.55 | 0.23 | 20 |
| 29 | 14.82 | 14.82 | 33.208 | 24.630 | 330.8 | 0.096 | 5.85 | 101.3 | 1.6 | 0.34 | 0.1 | 0.01 | 0.00 | 0.57 | 0.21 | 29 217 |
| 30 ISL | 14.77 D | 14.77 | 33.205 D | 24.640 | 330.0 | 0.099 | 5.90 D | 102.1 | 1.6 | 0.34 | 0.1 | 0.01 | 0.00 | 0.57 | 0.21 | 30 |
| 40 | 14.76 | 14.75 | 33.202 | 24.640 | 330.3 | 0.132 | 5.85 | 101.2 | 1.6 | 0.35 | 0.1 | 0.02 | 0.00 | 0.60 | 0.22 | 40 216 |
| 50 | 14.73 | 14.72 | 33.198 | 24.643 | 330.2 | 0.165 | 5.84 | 101.0 | 1.6 | 0.35 | 0.2 | 0.03 | 0.00 | 0.60 | 0.22 | 50 215 |
| 59 | 14.68 | 14.67 | 33.194 | 24.651 | 329.7 | 0.195 | 5.84 | 100.9 | 1.6 | 0.35 | 0.2 | 0.04 | 0.00 | 0.57 | 0.23 | 59 214 |
| 71 | 13.13 | 13.12 | 33.112 | 24.907 | 305.5 | 0.233 | 5.54 | 92.6 | 3.6 | 0.61 | 3.9 | 0.13 | 0.00 | 0.16 | 0.16 | 71 213 |
| 75 ISL | 12.50 D | 12.49 | 33.073 D | 25.000 | 296.7 | 0.245 | 5.54 D | 91.4 | 4.2 | 0.66 | 4.7 | 0.10 | 0.00 | 0.13 | 0.14 | 75 |
| 85 | 11.78 | 11.77 | 33.072 D | 25.135 | 284.0 | 0.274 | 5.38 | 87.4 | 5.9 | 0.77 | 6.6 | 0.01 | 0.00 | 0.07 | 0.09 | 85 212 |
| 99 | 10.87 | 10.86 | 33.135 | 25.349 | 263.8 | 0.312 | 5.07 | 80.8 | 9.6 | 1.03 | 10.9 | 0.00 | 0.00 | 0.05 | 0.06 | 99 211 |
| 100 ISL | 10.60 D | 10.59 | 33.188 D | 25.437 | 255.4 | 0.315 | 5.05 D | 80.0 | 9.9 | 1.05 | 11.3 | 0.00 | 0.00 | 0.05 | 0.06 | 100 |
| 120 | 10.03 | 10.02 | 33.393 | 25.695 | 231.2 | 0.364 | 4.29 | 67.2 | 16.5 | 1.45 | 17.9 | 0.00 | 0.00 | 0.03 | 0.04 | 121 210 |
| 125 ISL | 9.91 D | 9.90 | 33.457 D | 25.765 | 224.7 | 0.375 | 4.25 D | 66.5 | 17.4 | 1.50 | 18.7 | 0.00 | 0.00 | 0.03 | 0.04 | 126 |
| 144 | 9.76 | 9.74 | 33.562 | 25.872 | 214.9 | 0.417 | 3.82 | 59.6 | 20.1 | 1.62 | 20.9 | 0.00 | 0.00 | 0.01 | 0.04 | 145 209 |
| 150 ISL | 9.58 D | 9.56 | 33.622 D | 25.949 | 207.7 | 0.429 | 3.76 D | 58.4 | 21.5 | 1.67 | 21.8 | 0.00 | 0.00 | 0.01 | 0.04 | 151 |
| 173 | 9.18 | 9.16 | 33.826 | 26.173 | 186.7 | 0.475 | 3.07 | 47.3 | 27.2 | 1.88 | 25.3 | 0.00 | 0.00 | 0.00 | 0.03 | 174 208 |
| 200 ISL | 8.66 D | 8.64 | 33.982 D | 26.380 | 167.5 | 0.523 | 2.53 D | 38.6 | 33.5 | 2.04 | 28.1 | 0.00 | 0.00 | 0.00 | 0.03 | 201 |
| 201 | 8.67 | 8.65 | 33.982 | 26.376 | 167.9 | 0.524 | 2.51 | 38.3 | 33.7 | 2.05 | 28.2 | 0.00 | 0.00 | | | 202 207 |
| 232 | 8.22 | 8.20 | 34.044 | 26.494 | 157.1 | 0.575 | 2.17 | 32.8 | 39.3 | 2.21 | 30.2 | 0.00 | 0.00 | | | 233 206 |
| 250 ISL | 8.01 D | 7.98 | 34.072 D | 26.548 | 152.3 | 0.603 | 1.93 D | 29.0 | 42.2 | 2.30 | 31.2 | 0.00 | 0.00 | | | 251 |
| 269 | 7.85 | 7.82 | 34.090 | 26.585 | 148.9 | 0.631 | 1.72 | 25.8 | 45.3 | 2.39 | 32.3 | 0.00 | 0.00 | | | 270 205 |
| 300 ISL | 7.58 D | 7.55 | 34.133 D | 26.659 | 142.4 | 0.676 | 1.33 D | 19.8 | 50.6 | 2.55 | 34.0 | 0.00 | 0.00 | | | 302 |
| 323 | 7.39 | 7.36 | 34.173 | 26.718 | 137.1 | 0.708 | 1.05 | 15.6 | 54.5 | 2.66 | 35.2 | 0.00 | 0.00 | | | 325 204 |
| 377 | 6.91 | 6.87 | 34.215 | 26.818 | 128.1 | 0.780 | 0.70 | 10.3 | 62.5 | 2.82 | 37.0 | 0.00 | 0.00 | | | 379 203 |
| 400 ISL | 6.72 D | 6.68 | 34.222 D | 26.849 | 125.3 | 0.809 | 0.64 D | 9.3 | 64.9 | 2.87 | 37.5 | 0.00 | 0.00 | | | 402 |
| 447 | 6.51 | 6.47 | 34.258 | 26.906 | 120.5 | 0.867 | 0.48 | 7.0 | 69.6 | 2.95 | 38.5 | 0.00 | 0.00 | | | 450 2 |

RV NEW HORIZON

CALCOFI CRUISE 1101

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 50.8 N | 121 35.5 W | 15/01/11 | 1620 | UTC | 4104 m | 300 | 12 kn | 270 03 06 | 0 | 1020.5 mb | 17.4 C | 15.1 C | 16m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | 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 | 14.75 | 14.75 | 32.875 | 24.389 | 353.0 | 0.000 | 5.86 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 0 | |
| 3 A | 14.75 | 14.75 | 32.875 | 24.389 | 353.1 | 0.011 | 5.86 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 3 | 224 |
| 10 A | 14.74 | 14.74 | 32.877 | 24.393 | 352.9 | 0.035 | 5.87 | 101.3 | 1.9 | 0.27 | 0.0 | 0.00 | 0.00 | 0.39 | 0.11 | 10 | 223 |
| 12 A | 14.75 | 14.75 | 32.875 | 24.389 | 353.3 | 0.042 | 5.86 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 12 | 222 |
| 17 A | 14.75 | 14.75 | 32.887 | 24.398 | 352.6 | 0.060 | 5.87 | 101.4 | 1.9 | 0.29 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 17 | 221 |
| 20 ISL | 14.75 | D 14.75 | 32.876 | D 24.390 | 353.5 | 0.071 | 5.90 | D 101.9 | 1.9 | 0.29 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 20 | |
| 24 A | 14.75 | 14.75 | 32.875 | 24.389 | 353.6 | 0.085 | 5.87 | 101.3 | 1.8 | 0.29 | 0.0 | 0.00 | 0.00 | 0.38 | 0.12 | 24 | 220 |
| 30 ISL | 14.74 | D 14.74 | 32.875 | D 24.392 | 353.6 | 0.106 | 5.90 | D 101.8 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 30 | |
| 35 | 14.74 | 14.73 | 32.874 | 24.391 | 353.8 | 0.124 | 5.88 | 101.5 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.38 | 0.11 | 35 | 219 |
| 44 | 14.74 | 14.73 | 32.874 | 24.391 | 354.0 | 0.155 | 5.89 | 101.7 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.40 | 0.13 | 44 | 218 |
| 50 ISL | 14.74 | D 14.73 | 32.874 | D 24.391 | 354.2 | 0.177 | 5.89 | D 101.7 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.40 | 0.13 | 50 | |
| 53 A | 14.74 | 14.73 | 32.873 | 24.391 | 354.3 | 0.187 | 5.87 | 101.3 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.40 | 0.13 | 53 | 217 |
| 59 | 14.72 | 14.71 | 32.888 | 24.407 | 353.0 | 0.209 | 5.84 | 100.8 | 1.8 | 0.28 | 0.0 | 0.00 | 0.00 | 0.43 | 0.18 | 59 | 216 |
| 65 | 14.20 | 14.19 | 32.935 | 24.553 | 339.2 | 0.229 | 5.81 | 99.2 | 2.3 | 0.36 | 0.5 | 0.25 | 0.06 | 0.29 | 0.21 | 65 | 215 |
| 75 ISL | 13.71 | D 13.70 | 33.036 | D 24.732 | 322.3 | 0.262 | 5.70 | D 96.4 | 2.8 | 0.41 | 1.0 | 0.31 | 0.01 | 0.21 | 0.20 | 75 | |
| 76 | 13.83 | 13.82 | 33.034 | 24.706 | 324.9 | 0.266 | 5.73 | 97.2 | 2.8 | 0.41 | 1.0 | 0.32 | 0.00 | 0.21 | 0.20 | 76 | 214 |
| 85 | 12.87 | 12.86 | 33.020 | 24.888 | 307.7 | 0.294 | 5.66 | 94.1 | 3.4 | 0.44 | 1.9 | 0.01 | 0.00 | 0.12 | 0.14 | 85 | 213 |
| 95 | 12.47 | 12.46 | 33.023 | 24.968 | 300.3 | 0.325 | 5.61 | 92.5 | 3.8 | 0.49 | 2.6 | 0.01 | 0.00 | 0.10 | 0.11 | 95 | 212 |
| 100 ISL | 12.42 | D 12.41 | 33.191 | D 25.108 | 287.1 | 0.339 | 5.48 | D 90.3 | 4.3 | 0.54 | 3.5 | 0.01 | 0.00 | 0.09 | 0.10 | 100 | |
| 111 | 11.85 | 11.84 | 33.224 | 25.241 | 274.6 | 0.370 | 5.29 | 86.1 | 6.2 | 0.68 | 6.2 | 0.00 | 0.00 | 0.07 | 0.09 | 111 | 211 |
| 125 | 10.73 | 10.72 | 33.276 | 25.484 | 251.6 | 0.407 | 5.01 | 79.7 | 10.0 | 0.95 | 10.9 | 0.00 | 0.00 | 0.04 | 0.05 | 126 | 210 |
| 145 | 9.94 | 9.92 | 33.448 | 25.753 | 226.2 | 0.455 | 4.56 | 71.3 | 15.2 | 1.24 | 15.9 | 0.00 | 0.00 | 0.02 | 0.03 | 146 | 209 |
| 150 ISL | 9.82 | D 9.80 | 33.499 | D 25.813 | 220.6 | 0.466 | 4.46 | D 69.6 | 16.8 | 1.32 | 17.2 | 0.00 | 0.00 | 0.02 | 0.03 | 151 | |
| 170 | 9.28 | 9.26 | 33.663 | 26.030 | 200.3 | 0.508 | 3.82 | 59.0 | 22.7 | 1.61 | 21.7 | 0.00 | 0.00 | 0.00 | 0.02 | 171 | 208 |
| 199 | 8.89 | 8.87 | 33.875 | 26.258 | 179.1 | 0.563 | 3.38 | 51.8 | 27.9 | 1.76 | 24.5 | 0.00 | 0.00 | 0.00 | 0.02 | 200 | 207 |
| 200 ISL | 8.86 | D 8.84 | 33.881 | D 26.268 | 178.2 | 0.565 | 3.39 | D 51.9 | 28.0 | 1.76 | 24.6 | 0.00 | 0.00 | | | 201 | |
| 230 | 8.44 | 8.42 | 33.964 | 26.398 | 166.3 | 0.616 | 3.17 | 48.1 | 32.1 | 1.85 | 26.0 | 0.00 | 0.00 | | | 231 | 206 |
| 250 ISL | 8.21 | D 8.18 | 33.988 | D 26.452 | 161.4 | 0.649 | 2.94 | D 44.4 | 35.9 | 1.96 | 27.7 | 0.00 | 0.00 | | | 251 | |
| 270 | 7.82 | 7.79 | 34.009 | 26.526 | 154.5 | 0.681 | 2.60 | 38.9 | 40.1 | 2.09 | 29.5 | 0.00 | 0.00 | | | 271 | 205 |
| 300 ISL | 7.28 | D 7.25 | 34.031 | D 26.621 | 145.7 | 0.726 | 2.12 | D 31.3 | 46.0 | 2.27 | 31.9 | 0.00 | 0.00 | | | 302 | |
| 321 | 7.17 | 7.14 | 34.048 | 26.650 | 143.3 | 0.756 | 1.92 | 28.3 | 50.1 | 2.40 | 33.4 | 0.00 | 0.00 | | | 323 | 204 |
| 379 | 6.60 | 6.57 | 34.104 | 26.772 | 132.2 | 0.836 | 1.19 | 17.3 | 61.2 | 2.72 | 37.0 | 0.00 | 0.00 | | | 381 | 203 |
| 400 ISL | 6.35 | D 6.31 | 34.122 | D 26.819 | 127.9 | 0.863 | 1.04 | D 15.1 | 65.0 | 2.80 | 37.9 | 0.00 | 0.00 | | | 402 | |
| 440 | 6.03 | 5.99 | 34.140 | 26.874 | 122.9 | 0.914 | 0.81 | 11.6 | 71.6 | 2.91 | 39.3 | 0.00 | 0.00 | | | 443 | 202 |
| 500 ISL | 5.65 | D 5.61 | 34.187 | D 26.959 | 115.3 | 0.985 | 0.60 | D 8.5 | 79.5 | 3.05 | 40.7 | 0.00 | 0.00 | | | 503 | |
| 515 | 5.57 | 5.53 | 34.192 | 26.973 | 114.1 | 1.002 | 0.54 | 7.7 | 81.5 | 3.08 | 41.0 | 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; STATION CORRECTED 1° 02;

RV NEW HORIZON

CALCOFI CRUISE 1101

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 30.7 N | 122 15.1 W | 15/01/11 | 2208 | UTC | 4179 m | 300 | 11 kn | 330 05 04 | 0 | 1018.9 mb | 17.5 C | 16.0 C | 38m | 0/8 | | | |
| DEPTH | TEMP | POT TEMP | SALINITY | SIGMA | SVA | 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 | 16.42 | 16.42 | 33.252 | 24.309 | 360.6 | 0.000 | 5.66 | 101.3 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.03 | 0 | |
| 2 | 16.42 | 16.42 | 33.252 | 24.309 | 360.7 | 0.007 | 5.66 | 101.3 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.14 | 0.03 | 2 | 220 |
| 10 | 16.33 | 16.33 | 33.250 | 24.328 | 359.1 | 0.036 | 5.66 | 101.1 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.02 | 10 | 219 |
| 20 ISL | 16.28 | D 16.28 | 33.269 | D 24.354 | 356.9 | 0.072 | 5.70 | D 101.7 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.16 | 0.02 | 20 | |
| 26 | 16.29 | 16.29 | 33.277 | 24.359 | 356.7 | 0.093 | 5.65 | 100.8 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.16 | 0.02 | 26 | 218 |
| 30 ISL | 16.31 | D 16.31 | 33.289 | D 24.363 | 356.4 | 0.107 | 5.68 | D 101.4 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.16 | 0.03 | 30 | |
| 40 | 16.34 | 16.33 | 33.305 | 24.369 | 356.1 | 0.143 | 5.64 | 100.8 | 2.1 | 0.24 | 0.0 | 0.00 | 0.00 | 0.15 | 0.04 | 40 | 217 |
| 50 | 16.38 | 16.37 | 33.322 | 24.373 | 356.1 | 0.179 | 5.64 | 100.9 | 2.1 | 0.24 | 0.0 | 0.00 | 0.00 | 0.16 | 0.05 | 50 | 216 |
| 61 | 16.41 | 16.40 | 33.334 | 24.376 | 356.2 | 0.218 | 5.63 | 100.7 | 2.1 | 0.23 | 0.0 | 0.00 | 0.00 | 0.18 | 0.05 | 61 | 215 |
| 75 | 16.43 | 16.42 | 33.341 | 24.377 | 356.5 | 0.268 | 5.60 | 100.2 | 2.1 | 0.23 | 0.0 | 0.00 | 0.00 | 0.21 | 0.05 | 75 | 214 |
| 87 | 16.41 | 16.40 | 33.353 | 24.392 | 355.5 | 0.310 | 5.62 | 100.6 | 2.1 | 0.23 | 0.0 | 0.00 | 0.00 | 0.21 | 0.07 | 87 | 213 |
| 100 | 15.11 | 15.09 | 33.365 | 24.692 | 327.2 | 0.355 | 5.65 | 98.5 | 2.6 | 0.27 | 0.1 | 0.12 | 0.00 | 0.27 | 0.24 | 100 | 212 |
| 112 | 14.59 | 14.57 | 33.352 | 24.794 | 317.7 | 0.394 | 5.56 | 95.9 | 3.0 | 0.32 | 0.6 | 0.20 | 0.00 | 0.30 | 0.16 | 112 | 211 |
| 125 | 13.56 | 13.54 | 33.302 | 24.970 | 301.1 | 0.434 | 5.41 | 91.4 | 4.0 | 0.46 | 2.7 | 0.04 | 0.00 | 0.22 | 0.14 | 125 | 210 |
| 141 | 12.08 | 12.06 | 33.275 | 25.238 | 275.6 | 0.480 | 5.17 | 84.6 | 6.7 | 0.72 | 7.0 | 0.00 | 0.00 | 0.10 | 0.10 | 142 | 209 |
| 150 ISL | 10.72 | D 10.70 | 33.341 | D 25.537 | 247.1 | 0.503 | 5.17 | D 82.2 | 8.7 | 0.87 | 9.5 | 0.00 | 0.00 | 0.06 | 0.08 | 151 | |
| 170 | 10.26 | 10.24 | 33.399</td | | | | | | | | | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 110.0

| 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 | 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 | |
| 30 | 10.9 N | 122 55.4 W | 16/01/11 | 0420 UTC | 3986 m | 280 | 14 kn | | | 1019.4 mb | 17.0 | C 15.2 | C | | | | |
| 0 | ISL | 16.50 | 16.50 | 33.299 | 24.326 | 358.9 | 0.000 | 5.62 | 100.7 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.12 | 0.03 | 0 |
| 3 | | 16.50 | 16.50 | 33.299 | 24.326 | 359.0 | 0.011 | 5.62 | 100.7 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.12 | 0.03 | 3 220 |
| 10 | | 16.50 | 16.50 | 33.299 | 24.327 | 359.2 | 0.036 | 5.63 | 100.9 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.02 | 10 219 |
| 20 | ISL | 16.50 | D 16.50 | 33.302 | D 24.329 | 359.3 | 0.072 | 5.66 | D 101.5 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.02 | 20 218 |
| 25 | | 16.51 | 16.51 | 33.327 | 24.346 | 357.8 | 0.090 | 5.63 | 101.0 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.02 | 25 218 |
| 30 | ISL | 16.59 | D 16.59 | 33.359 | D 24.353 | 357.4 | 0.108 | 5.63 | D 101.1 | 2.0 | 0.25 | 0.0 | 0.00 | 0.00 | 0.15 | 0.03 | 30 |
| 40 | | 16.59 | 16.58 | 33.363 | 24.356 | 357.4 | 0.143 | 5.60 | 100.6 | 2.0 | 0.24 | 0.0 | 0.00 | 0.00 | 0.15 | 0.05 | 40 217 |
| 50 | | 16.54 | 16.53 | 33.353 | 24.360 | 357.3 | 0.179 | 5.61 | 100.7 | 1.9 | 0.24 | 0.0 | 0.00 | 0.00 | 0.17 | 0.05 | 50 216 |
| 62 | | 16.49 | 16.48 | 33.341 | 24.363 | 357.4 | 0.222 | 5.62 | 100.7 | 1.9 | 0.23 | 0.0 | 0.00 | 0.00 | 0.19 | 0.04 | 62 215 |
| 75 | | 16.48 | 16.47 | 33.338 | 24.364 | 357.8 | 0.268 | 5.61 | 100.5 | 2.0 | 0.23 | 0.0 | 0.00 | 0.00 | 0.22 | 0.03 | 75 214 |
| 87 | | 16.46 | 16.45 | 33.338 | 24.369 | 357.7 | 0.311 | 5.61 | 100.5 | 1.9 | 0.23 | 0.0 | 0.00 | 0.00 | 0.21 | 0.05 | 87 213 |
| 100 | | 14.79 | 14.78 | 33.287 | 24.701 | 326.2 | 0.356 | 5.62 | 97.3 | 2.6 | 0.31 | 0.2 | 0.18 | 0.00 | 0.32 | 0.16 | 100 212 |
| 112 | | 13.94 | 13.92 | 33.253 | 24.854 | 311.9 | 0.394 | 5.50 | 93.6 | 3.4 | 0.41 | 1.7 | 0.10 | 0.00 | 0.28 | 0.15 | 112 211 |
| 124 | | 13.06 | 13.04 | 33.253 | 25.032 | 295.1 | 0.431 | 5.34 | 89.2 | 4.7 | 0.55 | 4.1 | 0.01 | 0.00 | 0.16 | 0.16 | 124 210 |
| 125 | ISL | 12.51 | D 12.49 | 33.260 | D 25.145 | 284.3 | 0.433 | 5.29 | D 87.4 | 4.8 | 0.56 | 4.3 | 0.01 | 0.00 | 0.15 | 0.16 | 125 |
| 141 | | 11.86 | 11.84 | 33.263 | 25.270 | 272.5 | 0.478 | 5.13 | 83.6 | 7.2 | 0.76 | 7.8 | 0.00 | 0.00 | 0.10 | 0.10 | 142 209 |
| 150 | ISL | 11.18 | D 11.16 | 33.280 | D 25.408 | 259.5 | 0.502 | 5.05 | D 81.1 | 9.2 | 0.90 | 10.1 | 0.00 | 0.00 | 0.07 | 0.07 | 151 |
| 170 | | 10.24 | 10.22 | 33.400 | 25.666 | 235.2 | 0.551 | 4.56 | 71.8 | 13.9 | 1.20 | 15.1 | 0.00 | 0.00 | 0.02 | 0.03 | 171 208 |
| 200 | ISL | 9.58 | D 9.56 | 33.669 | D 25.987 | 205.1 | 0.617 | 3.95 | D 61.4 | 20.0 | 1.48 | 20.0 | 0.00 | 0.00 | 0.00 | 0.02 | 201 |
| 201 | | 9.57 | 9.55 | 33.665 | 25.985 | 205.3 | 0.620 | 3.93 | 61.1 | 20.2 | 1.49 | 20.2 | 0.00 | 0.00 | 0.00 | 0.02 | 202 207 |
| 230 | | 8.97 | 8.95 | 33.899 | 26.265 | 179.1 | 0.675 | 2.85 | 43.8 | 29.5 | 1.91 | 26.4 | 0.00 | 0.00 | | | 231 206 |
| 250 | ISL | 8.69 | D 8.66 | 33.982 | D 26.374 | 169.0 | 0.710 | 2.58 | D 39.4 | 32.7 | 2.02 | 27.9 | 0.00 | 0.00 | | | 251 |
| 271 | | 8.46 | 8.43 | 34.008 | 26.430 | 164.0 | 0.745 | 2.47 | 37.5 | 35.3 | 2.07 | 28.7 | 0.00 | 0.00 | | | 272 205 |
| 300 | ISL | 7.90 | D 7.87 | 34.060 | D 26.555 | 152.4 | 0.791 | 2.10 | D 31.5 | 41.3 | 2.24 | 30.9 | 0.00 | 0.00 | | | 302 |
| 320 | | 7.69 | 7.66 | 34.076 | 26.598 | 148.5 | 0.821 | 1.79 | 26.7 | 45.7 | 2.36 | 32.5 | 0.00 | 0.00 | | | 322 204 |
| 380 | | 6.99 | 6.95 | 34.128 | 26.738 | 135.7 | 0.906 | 1.20 | 17.6 | 56.8 | 2.64 | 35.7 | 0.00 | 0.00 | | | 382 203 |
| 400 | ISL | 6.71 | D 6.67 | 34.145 | D 26.790 | 130.9 | 0.933 | 1.05 | D 15.3 | 60.2 | 2.70 | 36.5 | 0.00 | 0.00 | | | 402 |
| 440 | | 6.36 | 6.32 | 34.157 | 26.846 | 125.9 | 0.984 | 0.88 | 12.7 | 66.5 | 2.80 | 37.9 | 0.00 | 0.00 | | | 443 202 |
| 500 | ISL | 5.89 | D 5.85 | 34.198 | D 26.938 | 117.5 | 1.057 | 0.64 | D 9.2 | 74.9 | 2.93 | 39.6 | 0.00 | 0.00 | | | 503 |
| 516 | | 5.79 | 5.75 | 34.205 | 26.956 | 115.9 | 1.076 | 0.55 | 7.9 | 77.2 | 2.96 | 40.1 | 0.00 | 0.00 | | | 519 201 |

D) CTD DATA USED ON STANDARD LEVELS AND MISSING FIELDS; PRIMARY T; PRIMARY CORRECTED S; STATION CORRECTED 1° 02';

RV NEW HORIZON

CALCOFI CRUISE 1101

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 | 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 | |
| 29 | 50.8 N | 123 35.3 W | 16/01/11 | 1036 UTC | 4061 m | 300 | 19 kn | | | 1019.1 mb | 15.0 | C 11.9 | C | | | | |
| 0 | ISL | 16.35 | 16.35 | 33.244 | 24.318 | 359.7 | 0.000 | 5.64 | 100.8 | 2.0 | 0.28 | 0.0 | 0.00 | 0.00 | 0.14 | 0.06 | 0 |
| 3 | | 16.35 | 16.35 | 33.244 | 24.319 | 359.8 | 0.011 | 5.64 | 100.8 | 2.0 | 0.28 | 0.0 | 0.00 | 0.00 | 0.14 | 0.06 | 3 220 |
| 10 | | 16.36 | 16.36 | 33.244 | 24.317 | 360.2 | 0.036 | 5.66 | 101.1 | 2.1 | 0.27 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 10 219 |
| 20 | ISL | 16.36 | D 16.36 | 33.243 | D 24.316 | 360.5 | 0.072 | 5.67 | D 101.3 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 20 218 |
| 25 | | 16.36 | 16.36 | 33.242 | 24.316 | 360.8 | 0.090 | 5.66 | 101.1 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 25 218 |
| 30 | ISL | 16.37 | D 16.37 | 33.247 | D 24.317 | 360.8 | 0.108 | 5.67 | D 101.3 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 30 |
| 40 | | 16.38 | 16.37 | 33.259 | 24.325 | 360.4 | 0.144 | 5.65 | 101.0 | 2.0 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.05 | 40 217 |
| 50 | | 16.40 | 16.39 | 33.269 | 24.328 | 360.4 | 0.180 | 5.64 | 100.9 | 2.1 | 0.26 | 0.0 | 0.00 | 0.00 | 0.14 | 0.06 | 50 216 |
| 62 | | 16.41 | 16.40 | 33.274 | 24.330 | 360.6 | 0.223 | 5.64 | 100.9 | 1.9 | 0.26 | 0.0 | 0.00 | 0.00 | 0.16 | 0.06 | 62 215 |
| 75 | ISL | 16.36 | D 16.35 | 33.271 | D 24.340 | 360.1 | 0.270 | 5.65 | D 101.0 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 75 |
| 76 | | 16.40 | 16.39 | 33.273 | 24.332 | 360.8 | 0.274 | 5.64 | 100.9 | 2.1 | 0.25 | 0.0 | 0.00 | 0.00 | 0.18 | 0.06 | 76 214 |
| 89 | | 14.39 | 14.38 | 33.163 | 24.690 | 326.9 | 0.319 | 5.69 | 97.7 | 2.7 | 0.36 | 0.6 | 0.27 | 0.00 | 0.28 | 0.28 | 89 213 |
| 100 | | 13.82 | 13.81 | 33.170 | 24.814 | 315.3 | 0.354 | 5.60 | 95.0 | 3.1 | 0.41 | 1.6 | 0.09 | 0.00 | 0.27 | 0.31 | 100 212 |
| 112 | | 13.37 | 13.35 | 33.253 | 24.970 | 300.7 | 0.391 | 5.41 | 91.0 | 4.1 | 0.50 | 3.2 | 0.02 | 0.00 | 0.17 | 0.25 | 112 211 |
| 125 | | 12.19 | 12.17 | 33.220 | 25.175 | 281.3 | 0.429 | 5.24 | 85.9 | 6.4 | 0.70 | 6.6 | 0.00 | 0.00 | 0.11 | 0.13 | 125 210 |
| 140 | | 10.97 | 10.95 | 33.216 | 25.395 | 260.4 | 0.469 | 4.98 | 79.6 | 9.8 | 0.99 | 11.2 | 0.00 | 0.00 | 0.06 | 0.07 | 141 209 |
| 150 | ISL | 10.43 | D 10.41 | 33.325 | D 25.575 | 243.4 | 0.495 | 4.81 | D 76.0 | 12.7 | 1.17 | 14.1 | 0.00 | 0.00 | 0.03 | 0.05 | 151 |
| 170 | | 9.76 | 9.74 | 33.554 | 25.866 | 215.9 | 0.540 | 4.09 | 63.8 | 18.4 | 1.46 | 19.1 | 0.00 | 0.00 | 0.00 | 0.03 | 171 208 |
| 200 | | 9.30 | 9.28 | 33.746 | 26.092 | 195.0 | 0.602 | 3.42 | 52.8 | 24.5 | 1.73 | 23.4 | 0.00 | 0.00 | | | 201 207 |
| 230 | | 8.92 | 8.90 | 33.909 | 26.281 | 177.6 | 0.658 | 2.76 | 42.3 | 30.5 | 1.98 | 27.0 | 0.00 | 0.00 | | | 231 206 |
| 250 | ISL | 8.55 | D 8.52 | 33.995 | D 26.406 | 166.0 | 0.692 | 2.53 | D 38.5 | 34.6 | 2.09 | 28.6 | 0.00 | 0.00 | | | 251 |
| 271 | | 8.22 | 8.19 | 34.034 | 26.487 | 158.5 | 0.726 | 2.22 | 33.5 | 38.8 | 2.19 | 30.0 | 0.00 | 0.00 | | | 272 205 |
| 300 | ISL | 7.88 | D 7.85 | 34.066 | D 26.563 | 151.7 | 0.771 | 1.95 | D 29.2 | 44.3 | 2.34 | 31.9 | 0.00 | 0.00 | | | 302 |
| 321 | | 7.63 | 7.60 | | | | | | | | | | | | | | |

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 76.7 55.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|---------------------------|
| 34 53.6 N | 121 12.2 W | 28/01/11 | 1741 UTC | 7 m | 1220 - 1757 PST | 1218 PST | 1754 PST | | 632.3 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | UPTAKE (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|-------------------------------|------|------|
| m | deg c | | theta | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | mean | dark |
| 2 | 12.69 | 33.389 | 25.207 | 7.06 | 117.2 | 1.2 | 0.60 | 0.7 | 0.04 | 3.81 | 0.64 | 64. A | 9.7 | 7.9 | 8.8 | 0.65 |
| 5 | 12.63 | 33.392 | 25.221 | 6.97 | 115.6 | 1.4 | 0.37 | 1.0 | 0.04 | 3.76 | 0.74 | 33. | 54.5 | 45.0 | 49.7 | 0.58 |
| 5 | 12.65 | 33.390 | 25.215 | 6.98 | 115.8 | 1.3 | 0.44 | 1.0 | 0.05 | 3.72 | 0.79 | 33. | 53.1 | 58.6 | 55.8 | 0.63 |
| 8 | 12.77 | 33.386 | 25.189 | 7.16 | 119.0 | 0.6 | 0.23 | 0.2 | 0.02 | 3.79 | 0.65 | 17. | 51.0 | 44.2 | 47.6 | 0.59 |
| 11 | 12.75 | 33.387 | 25.193 | 7.15 | 118.8 | 0.7 | 0.27 | 0.3 | 0.02 | 3.73 | 0.67 | 9.0 | 36.2 | 40.3 | 38.3 | 0.57 |
| 23 | 12.19 | 33.405 | 25.316 | 6.23 | 102.3 | 4.5 | 0.61 | 5.0 | 0.12 | 4.46 | 0.78 | 0.64 | 2.1 | 2.2 | 2.2 | 0.35 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 76.7 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|---------------------------|
| 33 43.2 N | 123 38.1 W | 27/01/11 | 1757 UTC | 17 m | 1225 - 1807 PST | 1227 PST | 1804 PST | | 508.0 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | UPTAKE (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|-------------------------------|------|------|
| m | deg c | | theta | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | mean | dark |
| 2 | 13.13 | 33.022 | 24.836 | 6.11 | 102.1 | 4.0 | 0.49 | 2.2 | 0.08 | 0.59 | 0.15 | 83. A | 6.1 | 5.1 | 5.6 | 0.07 |
| 11 | 12.99 | 33.031 | 24.871 | 6.11 | 101.8 | 4.0 | 0.50 | 2.5 | 0.09 | 0.64 | 0.16 | 37. | 14.6 | 14.2 | 14.4 | 0.07 |
| 14 | 12.98 | 33.031 | 24.873 | 6.07 | 101.1 | 4.1 | 0.51 | 2.7 | 0.10 | 0.64 | 0.16 | 28. | 11.9 | 12.2 | 12.1 | 0.06 |
| 18 | 12.95 | 33.046 | 24.890 | 6.08 | 101.3 | 4.3 | 0.52 | 2.8 | 0.10 | 0.62 | 0.18 | 20. | 10.1 | 12.3 | 11.2 | 0.05 |
| 28 | 12.65 | 33.122 | 25.008 | 6.13 | 101.5 | 5.1 | 0.59 | 3.9 | 0.15 | 1.08 | 0.45 | 8.0 | 13.8 | 14.5 | 14.1 | 0.06 |
| 37 | 12.43 | 33.158 | 25.079 | 5.98 | 98.6 | 5.6 | 0.67 | 5.0 | 0.25 | 0.66 | 0.38 | | | | | |
| 45 | 12.11 | 33.172 | 25.151 | 5.72 | 93.7 | 6.6 | 0.78 | 7.0 | 0.32 | 0.37 | 0.32 | | | | | |
| 55 | 11.24 | 33.152 | 25.295 | 5.19 | 83.4 | 8.5 | 0.99 | 10.5 | 0.04 | 0.15 | 0.14 | 0.70 | 0.27 | 0.27 | 0.27 | 0.01 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 80.0 51.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|---------------------------|
| 34 27.1 N | 120 31.5 W | 25/01/11 | 1800 UTC | 10 m | 1215 - 1802 PST | 1214 PST | 1755 PST | | 934.2 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | UPTAKE (mg C/m ³) | | |
|-------|-------|----------|--------|--------|-------|------|------|------|------|-------|-------|-------|--------|-------------------------------|------|------|
| m | deg c | | theta | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | mean | dark |
| 2 | 13.08 | 33.295 | 25.057 | 6.23 | 104.2 | 4.2 | 0.48 | 2.0 | 0.12 | 2.64 | 0.50 | 74. A | 42.6 | 46.2 | 44.4 | 0.37 |
| 6 | 13.00 | 33.301 | 25.078 | 6.17 | 103.0 | 4.4 | 0.50 | 2.2 | 0.13 | 2.80 | 0.50 | 40. | 54.8 | 57.8 | 56.3 | 0.28 |
| 8 | 12.90 | 33.307 | 25.102 | 6.10 | 101.6 | 4.5 | 0.51 | 2.5 | 0.14 | 3.04 | 0.49 | 29. | 50.9 | 51.8 | 51.4 | 0.25 |
| 11 | 12.83 | 33.322 | 25.128 | 5.92 | 98.5 | 5.0 | 0.60 | 3.4 | 0.16 | 3.27 | 0.45 | 18. | 43.6 | 41.7 | 42.7 | 0.23 |
| 16 | 12.81 | 33.328 | 25.136 | 5.91 | 98.3 | 4.9 | 0.62 | 3.8 | 0.17 | 3.16 | 0.47 | 8.6 | 27.9 | 25.6 | 26.7 | 0.20 |
| 25 | 12.51 | 33.430 | 25.274 | 5.28 | 87.3 | 8.9 | 0.99 | 9.4 | 0.29 | 2.32 | 0.71 | | | | | |
| 32 | 12.11 | 33.420 | 25.343 | 5.36 | 87.9 | 8.2 | 0.96 | 8.7 | 0.27 | 2.61 | 0.84 | 0.74 | 0.92 | 1.1 | 1.0 | 0.10 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 83.3 51.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|-----------|-----------|-----------|--------|-----------------|----------|----------|----------|---------------------------|
| 33 52.7 N | 120 8.3 W | 24/01/11 | 1937 UTC | 11 m | 1222 - 1745 PST | 1213 PST | 1747 PST | | 430.6 mg C/m ² |

| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | phaeo | light | uptake | UPTAKE (mg C/m ³) | | |
|-------|-------|----------|--------|--------|------|------|------|------|------|-------|-------|-------|--------|-------------------------------|------|------|
| m | deg c | | theta | ml/l | pct | um/l | um/l | um/l | um/l | ug/l | ug/l | pct | 1 | 2 | mean | dark |
| 2 | 12.73 | 33.462 | 25.255 | 5.24 | 87.1 | 9.9 | 0.94 | 8.7 | 0.13 | 0.95 | 0.29 | 76. A | 13.1 | 13.0 | 13.1 | 0.10 |
| 7 | 12.62 | 33.462 | 25.277 | 5.17 | 85.7 | 10.0 | 0.95 | 8.9 | 0.13 | 1.02 | 0.34 | 38. | 19.1 | 20.6 | 19.9 | 0.15 |
| 8 | 12.58 | 33.465 | 25.287 | 5.19 | 86.0 | 10.0 | 0.96 | 8.9 | 0.13 | 1.00 | 0.31 | 33. | 19.4 | 18.9 | 19.2 | 0.10 |
| 12 | 12.48 | 33.468 | 25.309 | 5.10 | 84.3 | 10.4 | 1.01 | 9.5 | 0.13 | 1.05 | 0.32 | 19. | 19.7 | 20.3 | 20.0 | 0.13 |
| 17 | 12.40 | 33.478 | 25.332 | 5.11 | 84.3 | 10.3 | 0.99 | 9.5 | 0.13 | 1.05 | 0.32 | 9.3 | 14.9 | 13.6 | 14.2 | 0.09 |
| 26 | 11.66 | 33.519 | 25.504 | 4.44 | 72.2 | 14.5 | 1.25 | 13.8 | 0.13 | 0.97 | 0.34 | | | | | |
| 36 | 10.90 | 33.603 | 25.707 | 3.80 | 60.8 | 19.0 | 1.52 | 17.8 | 0.12 | 0.81 | 0.39 | 0.66 | 0.40 | 0.33 | 0.37 | 0.06 |

A) INCUBATION LIGHT INTENSITIES WERE 93, 32, 6.5, 2.4, 0.68, 0.08 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 83.3 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|------------------|
| | | | | 16 m | 1215 - 1755 PST | 1223 PST | 1802 PST | | |
| 32 34.7 N | 122 48.4 W | 23/01/11 | 1639 UTC | | | | | | |
| 2 | 14.14 | 32.977 | 24.596 | 5.95 | 101.5 | 2.8 | 0.34 | 0.1 | 0.01 |
| 10 | 14.13 | 32.970 | 24.593 | 5.96 | 101.7 | 2.8 | 0.34 | 0.2 | 0.01 |
| 13 | 14.17 | 32.988 | 24.598 | 5.96 | 101.8 | 2.8 | 0.33 | 0.1 | 0.01 |
| 17 | 14.22 | 33.005 | 24.601 | 5.95 | 101.7 | 2.7 | 0.33 | 0.1 | 0.01 |
| 25 | 14.21 | 33.005 | 24.604 | 5.96 | 101.8 | 2.7 | 0.33 | 0.2 | 0.01 |
| 35 | 14.09 | 32.984 | 24.613 | 5.95 | 101.4 | 2.7 | 0.35 | 0.2 | 0.02 |
| 42 | 13.77 | 32.950 | 24.652 | 5.98 | 101.2 | 2.9 | 0.37 | 0.5 | 0.04 |
| 43 | 13.76 | 32.949 | 24.654 | 5.98 | 101.2 | 3.0 | 0.38 | 0.5 | 0.04 |
| | | | | | | | | | 0.46B |
| | | | | | | | | | 0.23B |
| | | | | | | | | | 1.6 |
| | | | | | | | | | 0.44 |
| | | | | | | | | | 0.45 |
| | | | | | | | | | 0.44 |
| | | | | | | | | | 0.03 |

B) FIRST FLUOROMETER READING NOT RECORDED, CHLOROPHYLL AND PHAEOPIGMENT CALCULATED WITH ASSUMED ACID RATIO INTERPOLATED FROM ADJACENT LEVELS.

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 40.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|------------------|
| | | | | 10 m | 1205 - 1745 PST | 1207 PST | 1745 PST | | |
| 33 39.2 N | 118 58.5 W | 20/01/11 | 1743 UTC | | | | | | |
| 3 | 13.68 | 33.363 | 24.989 | 6.89 | 116.7 | 0.1 | 0.12 | 0.0 | 0.00 |
| 6 | 13.61 | 33.357 | 24.999 | 7.11 | 120.3 | 0.0 | 0.11 | 0.0 | 0.00 |
| 8 | 13.57 | 33.357 | 25.007 | 7.01 | 118.5 | 0.0 | 0.12 | 0.0 | 0.00 |
| 11 | 13.44 | 33.360 | 25.036 | 7.01 | 118.2 | 0.0 | 0.12 | 0.1 | 0.00 |
| 16 | 13.10 | 33.373 | 25.114 | 6.79 | 113.7 | 0.1 | 0.21 | 0.8 | 0.02 |
| 24 | 12.76 | 33.389 | 25.193 | 5.80 | 96.4 | 3.9 | 0.75 | 5.5 | 0.09 |
| 32 | 12.32 | 33.397 | 25.285 | 5.23 | 86.1 | 7.6 | 0.99 | 8.8 | 0.25 |
| | | | | | | | | | 3.34 |
| | | | | | | | | | 1.16 |
| | | | | | | | | | 0.74 |
| | | | | | | | | | 2.2 |
| | | | | | | | | | 1.9 |
| | | | | | | | | | 2.0 |
| | | | | | | | | | 0.09 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 70.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|-----------|-----------|-----------|--------|-----------------|----------|----------|----------|------------------|
| | | | | 18 m | 1210 - 1755 PST | 1215 PST | 1753 PST | | |
| 32 39.5 N | 121 1.7 W | 21/01/11 | 1847 UTC | | | | | | |
| 3 | 14.50 | 32.958 | 24.506 | 5.97 | 102.6 | 2.6 | 0.30 | 0.0 | 0.00 |
| 12 | 14.43 | 32.949 | 24.514 | 5.97 | 102.4 | 2.6 | 0.30 | 0.0 | 0.00 |
| 14 | 14.35 | 32.950 | 24.531 | 5.97 | 102.3 | 2.5 | 0.30 | 0.0 | 0.00 |
| 19 | 14.13 | 32.938 | 24.568 | 5.98 | 102.0 | 2.7 | 0.32 | 0.2 | 0.02 |
| 28 | 13.94 | 32.939 | 24.609 | 5.98 | 101.6 | 2.8 | 0.34 | 0.4 | 0.04 |
| 38 | 13.80 | 32.952 | 24.648 | 5.96 | 101.0 | 3.0 | 0.36 | 0.7 | 0.07 |
| 48 | 13.69 | 32.978 | 24.691 | 5.92 | 100.1 | 3.1 | 0.39 | 1.0 | 0.12 |
| 59 | 13.44 | 33.063 | 24.807 | 5.78 | 97.2 | 3.6 | 0.46 | 2.0 | 0.21 |
| | | | | | | | | | 0.24 |
| | | | | | | | | | 0.20 |
| | | | | | | | | | 0.65 |
| | | | | | | | | | 0.49 |
| | | | | | | | | | 0.44 |
| | | | | | | | | | 0.46 |
| | | | | | | | | | 0.02 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 86.7 110.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL | TWILIGHT | INTEGRATED VALUE |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------|----------|------------------|
| | | | | 32 m | 1245 - 1805 PST | 1226 PST | 1806 PST | | |
| 31 19.4 N | 123 44.5 W | 22/01/11 | 1946 UTC | | | | | | |
| 2 | 15.76 | 33.179 | 24.402 | 5.71 | 100.8 | 2.3 | 0.26 | 0.0 | 0.00 |
| 12 | 15.73 | 33.187 | 24.415 | 5.72 | 100.9 | 2.3 | 0.26 | 0.0 | 0.00 |
| 21 | 15.74 | 33.189 | 24.415 | 5.73 | 101.1 | 2.3 | 0.26 | 0.0 | 0.00 |
| 24 | 15.73 | 33.194 | 24.421 | 5.72 | 100.9 | 2.3 | 0.25 | 0.0 | 0.00 |
| 34 | 15.75 | 33.197 | 24.419 | 5.73 | 101.1 | 2.3 | 0.24 | 0.0 | 0.00 |
| 42 | 15.75 | 33.197 | 24.420 | 5.72 | 100.9 | 2.2 | 0.25 | 0.0 | 0.00 |
| 50 | 15.74 | 33.197 | 24.422 | 5.76 | 101.6 | 2.3 | 0.25 | 0.0 | 0.00 |
| 69 | 15.83 | 33.220 | 24.420 | 5.71 | 100.9 | 2.3 | 0.24 | 0.0 | 0.00 |
| 87 | 15.83 | 33.239 | 24.436 | 5.70 | 100.8 | 2.3 | 0.24 | 0.0 | 0.00 |
| 101 | 14.47 | 33.242 | 24.734 | 5.78 | 99.4 | 2.9 | 0.30 | 0.2 | 0.09 |
| | | | | | | | | | 0.25 |
| | | | | | | | | | 0.15 |
| | | | | | | | | | 0.79 |
| | | | | | | | | | 0.25 |
| | | | | | | | | | 0.26 |
| | | | | | | | | | 0.25 |
| | | | | | | | | | 0.01 |

A) INCUBATION LIGHT INTENSITIES WERE 93, 32, 6.5, 2.4, 0.68, 0.08 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 30.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|---------------------------|------|-------|-------|-------|-------------------------------|------|------|------|
| | | | | 11 m | 1205 - 1744 PST | 1202 PST | 1739 PST | 253.6 mg C/m ² | | | | | | | | |
| 33 25.1 N | 117 54.5 W | 19/01/11 | 1816 UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE (mg C/m ³) | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 2 | 14.71 | 33.300 | 24.725 | 6.29 | 108.8 | 1.9 | 0.31 | 0.0 | 0.00 | 1.22 | 0.26 | 76. A | 16.4 | 16.9 | 16.7 | 0.15 |
| 7 | 14.59 | 33.321 | 24.767 | 6.36 | 109.7 | 1.8 | 0.30 | 0.0 | 0.00 | 1.18 | 0.43 | 38. | 10.7 | 11.7 | 11.2 | 0.12 |
| 9 | 14.51 | 33.330 | 24.791 | 6.32 | 108.9 | 2.0 | 0.31 | 0.0 | 0.00 | 1.43 | 0.32 | 28. | 12.4 | 12.8 | 12.6 | 0.13 |
| 12 | 14.41 | 33.334 | 24.815 | 6.20 | 106.6 | 2.2 | 0.33 | 0.1 | 0.01 | 1.61 | 0.48 | 19. | 11.3 | 11.0 | 11.2 | 0.09 |
| 17 | 14.35 | 33.348 | 24.839 | 6.07 | 104.2 | 2.5 | 0.36 | 0.6 | 0.03 | 1.12 | 0.28 | 9.3 | 5.2 | 4.7 | 4.9 | 0.05 |
| 26 | 14.24 | 33.353 | 24.866 | 5.86 | 100.4 | 2.8 | 0.42 | 1.6 | 0.08 | 0.92 | 0.16 | | | | | |
| 37 | 13.78 | 33.321 | 24.937 | 5.62 | 95.4 | 3.6 | 0.54 | 2.9 | 0.19 | 0.61 | 0.36 | 0.57 | 0.18 | 0.16 | 0.17 | 0.02 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|---------------------------|------|-------|-------|-------|-------------------------------|------|------|------|
| | | | | 16 m | 1210 - 1755 PST | 1210 PST | 1744 PST | 480.0 mg C/m ² | | | | | | | | |
| 32 24.7 N | 119 58.3 W | 18/01/11 | 1717 UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE (mg C/m ³) | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 3 | 13.35 | 33.128 | 24.874 | 5.96 | 100.1 | 4.0 | 0.49 | 2.8 | 0.11 | 0.60 | 0.14 | 75. A | 0.86 | 1.7 | 1.3 | 0.03 |
| 10 | 13.32 | 33.130 | 24.882 | 5.94 | 99.7 | 4.1 | 0.47 | 2.8 | 0.11 | 0.61 | 0.17 | 38. | 10.4 | 10.8 | 10.6 | 0.04 |
| 13 | 13.28 | 33.134 | 24.893 | 5.89 | 98.8 | 4.2 | 0.50 | 3.0 | 0.11 | 0.65 | 0.18 | 29. | 10.4 | 10.5 | 10.4 | 0.05 |
| 17 | 13.14 | 33.163 | 24.943 | 5.93 | 99.2 | 4.6 | 0.55 | 3.7 | 0.13 | 0.87 | 0.22 | 20. | 16.8 | 15.4 | 16.1 | 0.06 |
| 25 | 12.84 | 33.228 | 25.053 | 5.93 | 98.6 | 5.6 | 0.64 | 5.3 | 0.17 | 1.40 | 0.33 | 9.1 | 16.1 | 16.1 | 16.1 | 0.06 |
| 34 | 12.67 | 33.264 | 25.114 | 5.89 | 97.6 | 6.3 | 0.70 | 6.2 | 0.19 | 1.46 | 0.33 | | | | | |
| 43 | 12.61 | 33.263 | 25.125 | 5.88 | 97.4 | 6.5 | 0.72 | 6.5 | 0.18 | 1.25 | 0.29 | | | | | |
| 51 | 12.32 | 33.296 | 25.207 | 5.82 | 95.8 | 7.5 | 0.79 | 7.6 | 0.20 | 1.43 | 0.45 | 0.75 | 0.98 | 0.84 | 0.91 | 0.06 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|--------------------------|------|-------|-------|-------|-------------------------------|------|------|------|
| | | | | 23 m | 1218 - 1755 PST | 1320 PST | 1755 PST | 62.3 mg C/m ² | | | | | | | | |
| 31 26.0 N | 121 59.2 W | 17/01/11 | 1812 UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE (mg C/m ³) | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 3 | 16.32 | 33.318 | 24.382 | 5.64 | 100.8 | 2.2 | 0.26 | 0.0 | 0.00 | 0.14 | 0.04 | 82. A | 0.15 | 0.10 | 0.13 | 0.03 |
| 16 | 16.31 | 33.320 | 24.387 | 5.67 | 101.3 | 2.2 | 0.25 | 0.0 | 0.00 | 0.14 | 0.04 | 34. | 1.6 | 1.5 | 1.6 | 0.03 |
| 18 | 16.31 | 33.320 | 24.387 | 5.65 | 100.9 | 2.1 | 0.25 | 0.0 | 0.00 | 0.14 | 0.05 | 30. | 1.4 | 1.2 | 1.3 | 0.03 |
| 26 | 16.32 | 33.320 | 24.385 | 5.65 | 100.9 | 1.9 | 0.25 | 0.0 | 0.00 | 0.14 | 0.05 | 18. | 1.2 | 1.3 | 1.2 | 0.03 |
| 38 | 16.30 | 33.321 | 24.391 | 5.66 | 101.1 | 2.1 | 0.25 | 0.0 | 0.00 | 0.14 | 0.05 | 7.9 | 0.97 | 1.2 | 1.1 | 0.03 |
| 51 | 16.30 | 33.320 | 24.390 | 5.64 | 100.7 | 2.1 | 0.25 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 65 | 16.30 | 33.328 | 24.397 | 5.65 | 100.9 | 2.1 | 0.24 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 79 | 16.30 | 33.319 | 24.390 | 5.63 | 100.5 | 2.1 | 0.25 | 0.0 | 0.00 | 0.16 | 0.05 | 0.51 | 0.07 | 0.07 | 0.07 | 0.03 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 90.0 120.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | |
|-----------|------------|-----------|-----------|--------|-----------------|----------|----------------|--------------------------|------|-------|-------|-------|-------------------------------|------|------|------|
| | | | | 28 m | 1225 - 1756 PST | 1226 PST | 1804 PST | 88.2 mg C/m ² | | | | | | | | |
| 30 25.1 N | 123 59.9 W | 16/01/11 | 1714 UTC | | | | | | | | | | | | | |
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | CHL-A | PHAE0 | LIGHT | UPTAKE (mg C/m ³) | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK |
| 2 | 16.57 | 33.376 | 24.369 | 5.62 | 100.9 | 2.0 | 0.28 | 0.0 | 0.00 | 0.18 | 0.05 | 90. A | 0.09 | 0.13 | 0.11 | 0.01 |
| 10 | 16.56 | 33.373 | 24.370 | 5.62 | 100.9 | 2.0 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 18 | 16.57 | 33.375 | 24.369 | 5.63 | 101.1 | 2.2 | 0.26 | 0.0 | 0.00 | 0.14 | 0.05 | 37. | 1.7 | 1.7 | 1.7 | 0.01 |
| 21 | 16.56 | 33.376 | 24.372 | 5.61 | 100.7 | 1.9 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | 32. | 1.5 | 1.5 | 1.5 | 0.01 |
| 31 | 16.57 | 33.375 | 24.370 | 5.61 | 100.7 | 2.0 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | 18. | 1.7 | 1.6 | 1.6 | 0.01 |
| 44 | 16.57 | 33.374 | 24.369 | 5.61 | 100.7 | 2.2 | 0.27 | 0.0 | 0.00 | 0.15 | 0.05 | 9.0 | 1.3 | 1.4 | 1.3 | 0.01 |
| 60 | 16.57 | 33.374 | 24.370 | 5.62 | 100.9 | 2.2 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 75 | 16.57 | 33.375 | 24.371 | 5.59 | 100.4 | 2.2 | 0.26 | 0.0 | 0.00 | 0.15 | 0.05 | | | | | |
| 92 | 16.48 | 33.362 | 24.383 | 5.62 | 100.7 | 2.3 | 0.26 | 0.0 | 0.00 | 0.17 | 0.08 | 0.64 | 0.14 | 0.11 | 0.13 | 0.00 |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 35.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | | |
|----------|-----------|-----------|-----------|--------|-----------------|------|----------------|------------------|------|-------|-------|-------|------------------|------|------|------|------|
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | PHAE0 | LIGHT | UPTAKE (mg C/m3) | | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK | |
| 2 | 14.26 | 33.299 | 24.819 | 5.95 | 102.0 | 2.5 | 0.39 | 0.9 | 0.06 | 0.79 | 0.25 | 87. | A | 12.1 | 12.7 | 12.4 | 0.09 |
| 8 | 14.17 | 33.300 | 24.839 | 5.97 | 102.1 | 2.4 | 0.39 | 0.9 | 0.06 | 0.88 | 0.34 | 38. | | 10.5 | 10.6 | 10.5 | 0.05 |
| 14 | 13.96 | 33.291 | 24.876 | 5.85 | 99.6 | 2.6 | 0.45 | 1.6 | 0.09 | 0.73 | 0.30 | 31. | | 7.6 | 7.7 | 7.7 | 0.04 |
| 17 | 13.91 | 33.292 | 24.887 | 5.78 | 98.3 | 2.7 | 0.46 | 1.9 | 0.11 | 0.66 | 0.31 | 19. | | 7.2 | 6.7 | 7.0 | 0.03 |
| 24 | 13.85 | 33.295 | 24.902 | 5.68 | 96.5 | 3.0 | 0.50 | 2.4 | 0.15 | 0.56 | 0.26 | 8.7 | | 3.6 | 3.0 | 3.3 | 0.01 |
| 35 | 12.82 | 33.274 | 25.093 | 5.08 | 84.5 | 6.5 | 0.83 | 7.5 | 0.24 | 0.44 | 0.23 | | | | | | |
| 47 | 11.46 | 33.367 | 25.423 | 4.26 | 68.9 | 13.2 | 1.31 | 15.1 | 0.01 | 0.17 | 0.23 | | | | | | |
| 59 | 10.94 | 33.401 | 25.543 | 4.09 | 65.4 | 15.4 | 1.41 | 16.8 | 0.01 | 0.10 | 0.19 | | | | | | |
| 71 | 10.63 | 33.456 | 25.641 | 3.96 | 62.9 | 16.8 | 1.49 | 18.1 | 0.01 | 0.06 | 0.13 | | | | | | |

A) INCUBATION LIGHT INTENSITIES WERE 93, 32, 6.5, 2.4, 0.68, 0.08 PERCENT RESPECTIVELY.

PRIMARY PRODUCTIVITY CASTS

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 60.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | | |
|----------|-----------|-----------|-----------|--------|-----------------|------|----------------|------------------|------|-------|-------|-------|------------------|-----|------|------|------|
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | PHAE0 | LIGHT | UPTAKE (mg C/m3) | | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK | |
| 3 | 13.05 | 33.346 | 25.103 | 5.85 | 97.8 | 4.3 | 0.65 | 4.7 | 0.33 | 0.51 | 0.31 | 75. | A | 6.9 | 6.1 | 6.5 | 0.08 |
| 11 | 13.02 | 33.345 | 25.108 | 5.87 | 98.1 | 4.3 | 0.63 | 4.7 | 0.33 | 0.52 | 0.33 | 35. | | 9.2 | 9.6 | 9.4 | 0.04 |
| 12 | 13.03 | 33.345 | 25.106 | 5.85 | 97.8 | 4.3 | 0.64 | 4.7 | 0.33 | 0.48 | 0.29 | 32. | | 8.7 | 9.2 | 9.0 | 0.06 |
| 17 | 13.02 | 33.347 | 25.110 | 5.86 | 97.9 | 4.3 | 0.64 | 4.7 | 0.33 | 0.49 | 0.35 | 20. | | 6.8 | 6.3 | 6.6 | 0.04 |
| 25 | 13.01 | 33.346 | 25.111 | 5.86 | 97.9 | 4.3 | 0.64 | 4.8 | 0.33 | 0.49 | 0.34 | 9.1 | | 5.2 | 5.7 | 5.4 | 0.04 |
| 34 | 13.01 | 33.349 | 25.114 | 5.84 | 97.6 | 4.3 | 0.64 | 4.8 | 0.33 | 0.53 | 0.38 | | | | | | |
| 43 | 12.83 | 33.344 | 25.145 | 5.69 | 94.7 | 4.8 | 0.69 | 5.6 | 0.31 | 0.40 | 0.31 | | | | | | |
| 52 | 12.13 | 33.341 | 25.278 | 5.07 | 83.1 | 7.8 | 0.96 | 10.1 | 0.07 | 0.14 | 0.29 | | | | | | |

RV NEW HORIZON

CALCOFI CRUISE 1101

STATION 93.3 90.0

| LATITUDE | LONGITUDE | DAY/MO/YR | CAST TIME | SECCHI | INCUBATION TIME | LAN | CIVIL TWILIGHT | INTEGRATED VALUE | | | | | | | | | |
|----------|-----------|-----------|-----------|--------|-----------------|------|----------------|------------------|------|-------|-------|-------|------------------|------|------|------|------|
| DEPTH | TEMP | SALINITY | SIGMA | OXYGEN | OXY | SI03 | P04 | N03 | N02 | chl-a | PHAE0 | LIGHT | UPTAKE (mg C/m3) | | | | |
| m | DEG C | THETA | ml/l | PCT | uM/l | uM/l | uM/l | uM/l | uM/l | ug/l | ug/l | PCT | 1 | 2 | MEAN | DARK | |
| 3 | 14.75 | 32.875 | 24.389 | 5.86 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.38 | 0.11 | 75. | A | 0.24 | 0.25 | 0.25 | 0.03 |
| 10 | 14.74 | 32.877 | 24.393 | 5.87 | 101.3 | 1.9 | 0.27 | 0.0 | 0.00 | 0.39 | 0.11 | 38. | | 4.8 | 4.3 | 4.5 | 0.03 |
| 12 | 14.75 | 32.875 | 24.389 | 5.86 | 101.2 | 1.9 | 0.28 | 0.0 | 0.00 | 0.38 | 0.11 | 32. | | 5.5 | 4.3 | 4.9 | 0.04 |
| 17 | 14.75 | 32.887 | 24.398 | 5.87 | 101.4 | 1.9 | 0.29 | 0.0 | 0.00 | 0.38 | 0.11 | 20. | | 4.5 | 4.3 | 4.4 | 0.03 |
| 24 | 14.75 | 32.875 | 24.389 | 5.87 | 101.3 | 1.8 | 0.29 | 0.0 | 0.00 | 0.38 | 0.12 | 10. | | 4.1 | 4.1 | 4.1 | 0.03 |
| 35 | 14.74 | 32.874 | 24.391 | 5.88 | 101.5 | 1.8 | 0.28 | 0.0 | 0.00 | 0.38 | 0.11 | | | | | | |
| 44 | 14.74 | 32.874 | 24.391 | 5.89 | 101.7 | 1.8 | 0.28 | 0.0 | 0.00 | 0.40 | 0.13 | | | | | | |
| 53 | 14.74 | 32.873 | 24.391 | 5.87 | 101.3 | 1.8 | 0.28 | 0.0 | 0.00 | 0.40 | 0.13 | | | | | | |

A) INCUBATION LIGHT INTENSITIES WERE 93, 32, 6.5, 2.4, 0.68, 0.08 PERCENT RESPECTIVELY.

CalCOFI Cruise 1101

MACROZOOPLANKTON BIOMASS
Net Mesh Size: 0.505mm

| Line | Sta. | Latitude N | Longitude W | Mo/Day | Date | Time (PST) | Water Volume | Max. Tow | Volume per | | | | | | |
|------|-------|------------|-------------|--------|------|------------|--------------|----------|------------|-------------|------------------|--|--|--|--|
| | | | | | | | | | Start | End | Strained (m³) | | | | |
| | | | | | | | | | | Depth (m) | 1000 m³ Strained | | | | |
| | | | | | | | | | | Total (cm³) | Small (cm³) | | | | |
| 93.4 | 26.4 | 32 57.1 | 117 16.9 | 01/12 | 1703 | 1705 | 51 | 13 | | 19 | 19 | | | | |
| 93.3 | 26.7 | 32 57.4 | 117 18.3 | 01/12 | 1835 | 1843 | 150 | 63 | | 127 | 127 | | | | |
| 91.7 | 26.4 | 33 14.7 | 117 27.7 | 01/12 | 2132 | 2134 | 64 | 12 | | 31 | 31 | | | | |
| 93.3 | 28.0 | 32 54.6 | 117 24.0 | 01/13 | 0250 | 0312 | 438 | 206 | | 82 | 82 | | | | |
| 93.3 | 30.0 | 32 50.7 | 117 32.0 | 01/13 | 0555 | 0617 | 443 | 212 | | 50 | 50 | | | | |
| 93.3 | 35.0 | 32 41.2 | 117 52.7 | 01/13 | 0935 | 0956 | 444 | 200 | | 56 | 56 | | | | |
| 93.3 | 40.0 | 32 30.7 | 118 12.7 | 01/13 | 1514 | 1537 | 452 | 208 | | 55 | 55 | | | | |
| 93.3 | 45.0 | 32 20.8 | 118 33.5 | 01/13 | 1933 | 1955 | 452 | 204 | | 64 | 64 | | | | |
| 93.3 | 50.0 | 32 10.8 | 118 53.6 | 01/14 | 0010 | 0033 | 491 | 206 | | 45 | 45 | | | | |
| 93.3 | 55.0 | 32 00.6 | 119 14.2 | 01/14 | 0526 | 0548 | 463 | 215 | | 67 | 67 | | | | |
| 93.3 | 60.0 | 31 50.7 | 119 34.2 | 01/14 | 0850 | 0911 | 440 | 200 | | 36 | 36 | | | | |
| 93.3 | 70.0 | 31 30.9 | 120 14.9 | 01/14 | 1758 | 1820 | 480 | 209 | | 56 | 42 | | | | |
| 93.3 | 80.0 | 31 10.6 | 120 55.2 | 01/15 | 0149 | 0211 | 489 | 213 | | 70 | 70 | | | | |
| 93.3 | 90.0 | 30 50.7 | 121 35.3 | 01/15 | 0655 | 0718 | 506 | 211 | | 16 | 16 | | | | |
| 93.3 | 100.0 | 30 30.6 | 122 15.1 | 01/15 | 1519 | 1541 | 460 | 210 | | 13 | 13 | | | | |
| 93.3 | 110.0 | 30 10.8 | 122 55.3 | 01/15 | 2132 | 2153 | 482 | 209 | | 42 | 42 | | | | |
| 93.3 | 120.0 | 29 50.6 | 123 35.0 | 01/16 | 0352 | 0415 | 499 | 212 | | 24 | 24 | | | | |
| 90.0 | 120.0 | 30 24.9 | 123 59.7 | 01/16 | 1051 | 1112 | 471 | 211 | | 6 | 6 | | | | |
| 90.0 | 110.0 | 30 45.2 | 123 20.0 | 01/16 | 1807 | 1830 | 485 | 212 | | 21 | 21 | | | | |
| 90.0 | 100.0 | 31 04.7 | 122 39.4 | 01/17 | 0238 | 0300 | 463 | 212 | | 9 | 9 | | | | |
| 90.0 | 90.0 | 31 25.4 | 121 59.1 | 01/17 | 0805 | 0824 | 520 | 214 | | 4 | 4 | | | | |
| 90.0 | 80.0 | 31 45.1 | 121 19.1 | 01/17 | 1919 | 1941 | 519 | 214 | | 23 | 23 | | | | |
| 90.0 | 70.0 | 32 04.6 | 120 38.2 | 01/18 | 0335 | 0357 | 483 | 210 | | 33 | 33 | | | | |
| 90.0 | 60.0 | 32 25.0 | 119 57.7 | 01/18 | 1056 | 1116 | 426 | 212 | | 23 | 23 | | | | |
| 90.0 | 53.0 | 32 39.0 | 119 29.0 | 01/18 | 1633 | 1655 | 509 | 195 | | 22 | 22 | | | | |
| 90.0 | 45.0 | 32 55.1 | 118 56.1 | 01/18 | 2216 | 2236 | 449 | 208 | | 62 | 62 | | | | |
| 90.0 | 37.0 | 33 11.0 | 118 23.8 | 01/19 | 0439 | 0501 | 487 | 210 | | 51 | 51 | | | | |
| 90.0 | 35.0 | 33 15.2 | 118 14.7 | 01/19 | 0732 | 0752 | 480 | 172 | | 29 | 29 | | | | |
| 90.0 | 30.0 | 33 25.0 | 117 54.5 | 01/19 | 1147 | 1209 | 442 | 202 | | 50 | 50 | | | | |
| 90.0 | 28.0 | 33 28.9 | 117 46.2 | 01/19 | 1430 | 1435 | 102 | 33 | | 20 | 20 | | | | |
| 90.0 | 27.7 | 33 29.7 | 117 45.0 | 01/19 | 1526 | 1529 | 73 | 19 | | 14 | 14 | | | | |
| 88.5 | 30.1 | 33 40.7 | 118 05.0 | 01/19 | 1806 | 1808 | 48 | 13 | | 62 | 62 | | | | |
| 86.8 | 32.5 | 33 53.3 | 118 26.7 | 01/19 | 2203 | 2205 | 47 | 21 | | 150 | 150 | | | | |
| 86.7 | 33.0 | 33 53.4 | 118 29.4 | 01/19 | 2339 | 2344 | 97 | 43 | | 352 | 352 | | | | |
| 85.4 | 35.8 | 34 00.7 | 118 50.6 | 01/20 | 0225 | 0227 | 49 | 15 | | 204 | 204 | | | | |
| 86.7 | 35.0 | 33 49.3 | 118 37.7 | 01/20 | 0620 | 0642 | 481 | 209 | | 71 | 71 | | | | |
| 86.7 | 40.0 | 33 39.4 | 118 58.3 | 01/20 | 1122 | 1143 | 446 | 206 | | 52 | 52 | | | | |
| 86.7 | 45.0 | 33 29.4 | 119 12.9 | 01/20 | 1545 | 1608 | 458 | 210 | | 48 | 48 | | | | |
| 86.7 | 50.0 | 33 19.3 | 119 40.0 | 01/20 | 1947 | 1954 | 164 | 62 | | 12 | 12 | | | | |
| 86.7 | 55.0 | 33 09.5 | 120 00.2 | 01/21 | 0036 | 0058 | 449 | 200 | | 67 | 67 | | | | |
| 86.7 | 60.0 | 32 59.4 | 120 20.6 | 01/21 | 0530 | 0552 | 500 | 206 | | 36 | 36 | | | | |
| 86.7 | 70.0 | 32 39.4 | 121 01.8 | 01/21 | 1220 | 1242 | 432 | 203 | | 39 | 39 | | | | |
| 86.7 | 80.0 | 32 19.4 | 121 43.0 | 01/21 | 1824 | 1846 | 502 | 196 | | 44 | 44 | | | | |
| 86.7 | 90.0 | 31 59.4 | 122 23.3 | 01/22 | 0047 | 0109 | 470 | 209 | | 21 | 21 | | | | |
| 86.7 | 100.0 | 31 39.3 | 123 04.2 | 01/22 | 0653 | 0715 | 485 | 211 | | 14 | 14 | | | | |
| 86.7 | 110.0 | 31 19.3 | 123 44.4 | 01/22 | 1245 | 1307 | 487 | 210 | | 33 | 33 | | | | |
| 83.3 | 110.0 | 31 54.6 | 124 10.1 | 01/22 | 1905 | 1927 | 517 | 201 | | 43 | 43 | | | | |
| 83.3 | 100.0 | 32 14.4 | 123 29.1 | 01/23 | 0216 | 0238 | 432 | 208 | | 37 | 37 | | | | |
| 83.3 | 90.0 | 32 34.7 | 122 48.7 | 01/23 | 0710 | 0732 | 509 | 205 | | 12 | 12 | | | | |
| 83.3 | 80.0 | 32 54.7 | 122 07.7 | 01/23 | 1454 | 1516 | 488 | 212 | | 12 | 12 | | | | |
| 83.3 | 70.0 | 33 14.6 | 121 26.7 | 01/23 | 2144 | 2204 | 427 | 210 | | 70 | 59 | | | | |
| 83.3 | 60.0 | 33 34.6 | 120 45.2 | 01/24 | 0407 | 0430 | 453 | 214 | | 49 | 49 | | | | |
| 83.3 | 55.0 | 33 44.8 | 120 24.7 | 01/24 | 0855 | 0916 | 462 | 208 | | 58 | 58 | | | | |
| 83.3 | 51.0 | 33 52.6 | 120 08.2 | 01/24 | 1245 | 1256 | 220 | 92 | | 14 | 14 | | | | |
| 83.3 | 42.0 | 34 10.7 | 119 30.5 | 01/24 | 1856 | 1905 | 197 | 75 | | 153 | 153 | | | | |
| 83.3 | 40.6 | 34 13.4 | 119 24.8 | 01/24 | 2043 | 2045 | 55 | 21 | | 219 | 219 | | | | |
| 83.3 | 39.4 | 34 15.4 | 119 19.4 | 01/24 | 2143 | 2145 | 54 | 21 | | 205 | 205 | | | | |
| 81.7 | 43.5 | 34 24.2 | 119 48.1 | 01/25 | 0049 | 0051 | 50 | 12 | | 80 | 80 | | | | |
| 81.8 | 46.9 | 34 16.5 | 120 01.5 | 01/25 | 0548 | 0609 | 435 | 212 | | 106 | 106 | | | | |
| 80.0 | 50.5 | 34 27.6 | 120 29.2 | 01/25 | 0924 | 0926 | 47 | 14 | | 108 | 108 | | | | |
| 80.0 | 51.0 | 34 27.1 | 120 31.4 | 01/25 | 1102 | 1108 | 123 | 55 | | 163 | 163 | | | | |
| 80.0 | 55.0 | 34 19.1 | 120 48.0 | 01/25 | 1428 | 1450 | 460 | 213 | | | | | | | |